

NEW YORK CITY DEPARTMENT OF TRANSPORTATION TRAFFIC SIGNAL STANDARD DRAWINGS



INDEX SHEET (1 of 2)

FOUNDATION DRAWINGS

Typical Foundations "S-14A", "S" & "T" for "S-14A", "S-1a" and "T-1" Poles
Footings Details for Types "M-2A" and "S-14A" Poles
Foundation for Ground Mount Controller Cabinet
18" & 21" Square Precast Slabs
"M-2" Foundation with 32" Dia. X 9" High Steel Cylinder
Detail of Standard 2" Pipe Conduit Bend
Standard Anchor Bolt Assemblies "B", "C" and "D"
Foundation Grounding Detail
Conduit Installation at "EL" Column
Coastal Storm Foundation
Accessible Pedestrian Signal (APS) Foundation
NYSDOT Region 10 Traffic Signal Pole Foundation

TRAFFIC SIGNAL POLE DRAWINGS

"M-2A" Pole With Cast Iron Casting & 20' Traffic Signal Mast Arm
NYC Traffic Signal Pole "S-1a"
7' Shaft Extension for "M-2A" Pole, Single & Twin Types
15 1/2" Shaft Extension for "M-2A" Pole
Mounting ASTC Cabinet on Traffic Signal Pole
Controller Cabinet Mounting Bands for "M-2A" Pole
Controller Cabinet Mounting Bands for "S-1a" Pole
Type "B" Modified Pole
Shoe Base for Type 10 Lamp Pole
Transformer Base for Type 10 Lamp Pole
Details for Shoe and Transformer Base for Type 10 Lamp Pole
"S-14A" Shaft and Transformer Base
Alliance Downtown New York (ADNY) Street Light/Traffic Signal Poles Type "P" & "S"
Davit Shaft Extension for "M-2A" Pole
NYSDOT Region 10 Traffic Signal Pole

MAST ARM DRAWINGS

"M-2A" Pole & 20' Traffic Signal Mast Arm Arrangement Drawing
"M-2A" Pole & 20' Traffic Signal Mast Arm Assembly Drawing
"M-2A" Pole & 20' Traffic Signal Mast Arm Details of Parts "A2", "B2", "C2", "D2", "F2A", "H2"
Traffic Signal Mast Arm Tie Rod Elbow & Signal Suspension Casting Detail – Assembly
Traffic Signal Mast Arm Tie Rod Elbow & Signal Suspension Casting Detail - "J2A" & "K2A"
Traffic Signal Mast Arm Tie Rod Elbow & Signal Suspension Casting Detail - "L2A"
5' Extension for 20' Traffic Signal Mast Arm
Traffic Signal Mast Arm for Wood Pole "MAW-15" Assembly
Mast Arm Traffic Signal Head "R2" & Concentric Link "K2A" Assembly
"M-2A" Pole Transformer Base Detail
"M-2A" Pole Anchor Base - Bolt Covering & Spring Nuts Detail

F-001
F-002
F-003
F-004
F-005
F-006
F-007
F-008
F-009
F-010
F-011
F-012

P-001
P-002
P-003
P-004
P-005
P-006
P-007
P-008
P-009_1
P-009_2
P-009_3
P-010
P-011
P-012
P-013

MA-001
MA-002
MA-003
MA-004_1
MA-004_2
MA-004_3
MA-005
MA-006
MA-007
MA-008
MA-009

TRAFFIC SIGNAL EQUIPMENT DRAWINGS

Vehicle & Pedestrian Signals Mounted on Poles
8" & 12" Vehicle Signals
16"x16" Pedestrian Signals
Mast Arm Traffic Signal Mounting Assemblies "1MS", "2MS", "3MS", "4MS"
Mast Arm Traffic Signal Mounting Assembly "1MS" – Detail
Mast Arm Traffic Signal Mounting Assembly "2MS" – Detail
Mast Arm Traffic Signal Mounting Assembly "3MS" – Detail
Mast Arm Traffic Signal Mounting Assembly "4MS" – Detail
Mast Arm Traffic Signal Mounting Assemblies "E5MS", "E6MS"
Junction Boxes for Mast Arm Spider Assemblies
Serrated Connection for Signal Section Top
Serrated Connection for Signal Section Bottom
1 1/2" Die Cast Alum. Serrated Tee Detail
1 1/2" Die Cast Alum. Serrated Tee Detail Two Serrated Bosses
1 1/2" Die Cast Serrated Locking Ring Detail
1 1/2" Die Cast Chase Nipples Details
1 1/2" Die Cast Aluminum Pipe Locknut
1 1/2" Closure Caps Detail
1 1/2" Pipe Nipples
Signal Head Ties for Assemblies "SP", "SPA", "MS"
Extended Signal Head Ties for Assemblies "E2MS", "E3MS", "E4MS", "E5MS", "E6MS"
Slipfitter Pole Signal Mounting Assemblies "1SA", "2SPA", "3SPA", "4SPA"
Slipfitter Pole Signal Mounting Assembly "1SA"
Slipfitter Pole Signal Mounting Assembly "2SPA"
Slipfitter Pole Signal Mounting Assembly "3SPA"
Slipfitter Pole Signal Mounting Assembly "4SPA"
Die Cast Slipfitter "1SA" for Pole Mounted Traffic Signal Head
Die Cast Slipfitter "4S" for Pole Mounted Traffic Signal Assemblies "SPA"
Bracket Mounting Assembly for Vehicle Signals "VB"
Bracket Mounting Assembly for Vehicle Signals "2VB"
Lawton Hub Assembly Detail
Bracket Mounting Assembly for Vehicle Signals on Wood Poles "WP"
Bracket Mounting Assembly for Vehicle Signals on Wood Poles "2WP"
Pole Connections for Wood Pole Brackets "WP"
120 Degree Slip "Y" Fitting
Pedestrian Signal Mounting Assembly "VB-P"
Pedestrian Signal Mounting Assembly "VB-2P"
Tunnel Signal Head Visors
Louvers – 3 Degrees
Louvers – 7 Degrees
Louvers – 14 Degrees
Louvers – Geometrically Programmable
Rigid Mast Arm Traffic Signal Mounting Assembly
Accessible Pedestrian Signal (APS) Unit
Accessible Pedestrian Signal (APS) Mounting Information
Cord End Connector
Accessible Pedestrian Signal (APS) Pole
Bicycle Symbol for 12" Traffic Signal Cover
Bracket Mounting Assembly for Pedestrian Signals on Wood Poles "WB-P"
Bracket Mounting Assembly for Pedestrian Signals on Wood Poles "WB-2P"

SE-001
SE-002
SE-003
SE-004_1
SE-004_2
SE-004_3
SE-004_4
SE-004_5
SE-004_6
SE-005
SE-006_1
SE-006_2
SE-007_1
SE-007_2
SE-008
SE-009
SE-010
SE-011
SE-012
SE-013_1
SE-013_2
SE-014_1
SE-014_2
SE-014_3
SE-014_4
SE-014_5
SE-015
SE-016
SE-017_1
SE-017_2
SE-018
SE-019_1
SE-019_2
SE-019_3
SE-020
SE-021_1
SE-021_2
SE-022
SE-023_1
SE-023_2
SE-023_3
SE-023_4
SE-024
SE-025_1
SE-025_2
SE-026
SE-027
SE-028
SE-029_1
SE-029_2

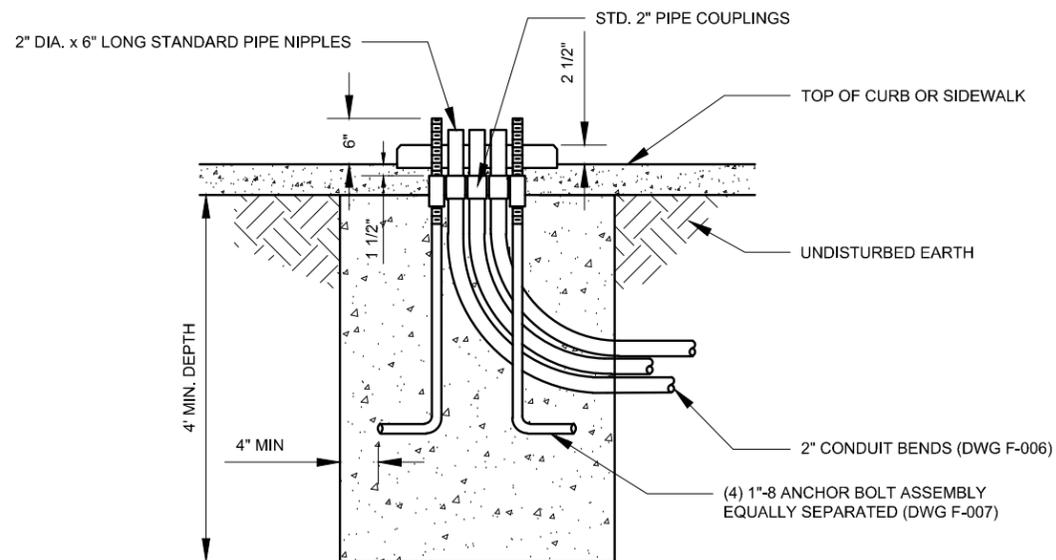
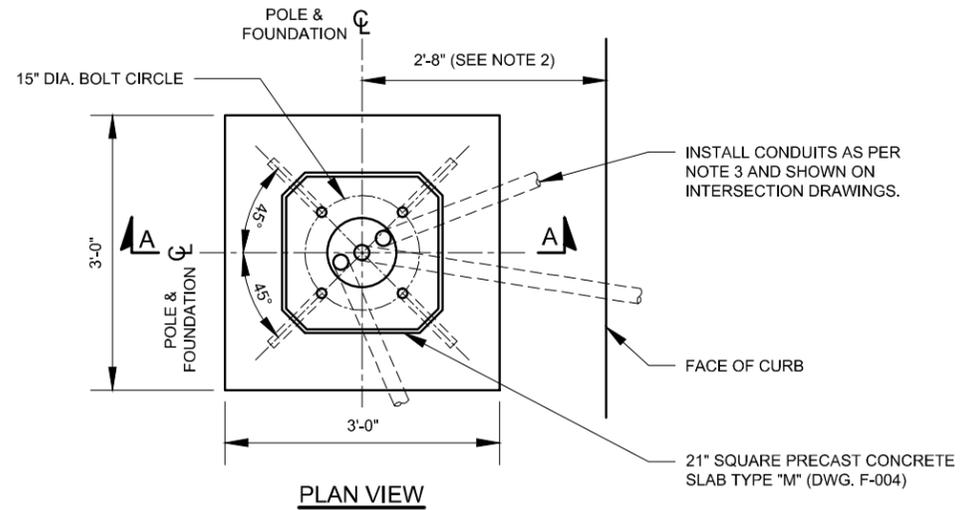
INDEX SHEET (2 of 2)

MISCELLANEOUS DRAWINGS

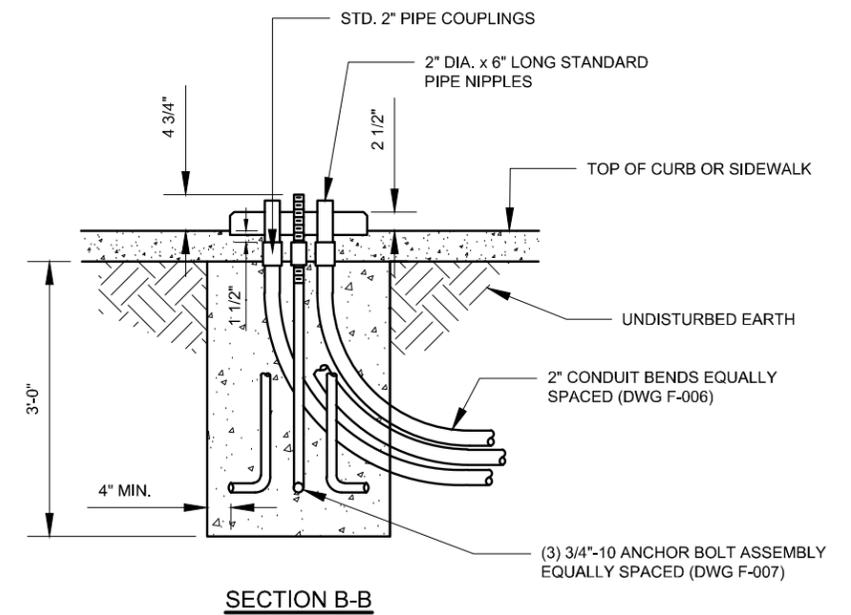
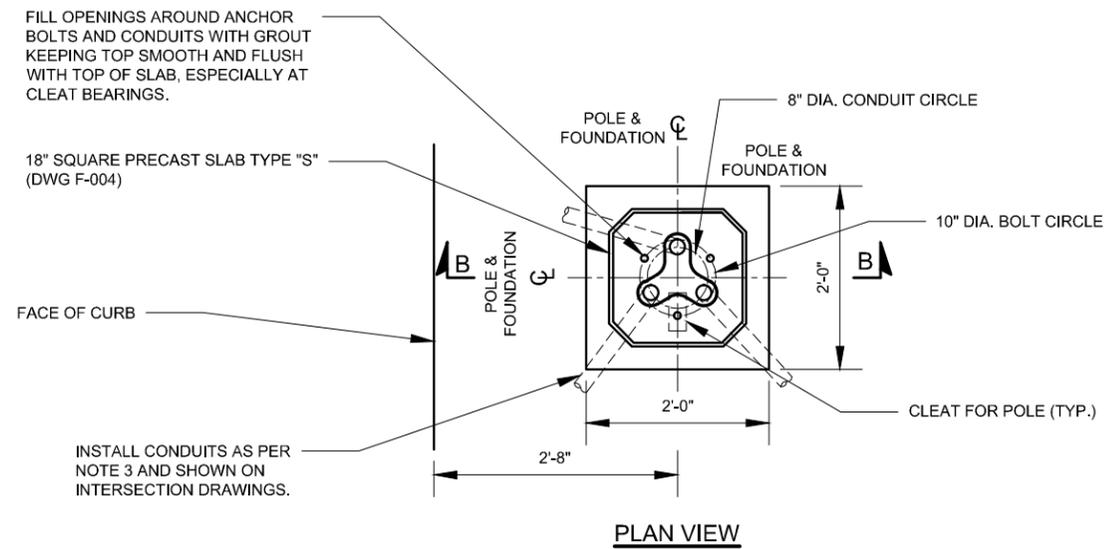
Temporary Traffic Signal Concrete Pylon	MISC-001_1
Temporary Traffic Signal Wood Pylon	MISC-001_2
Speed Sign Unit Only for American Signal Speed Sign	MISC-002_1
Speed Sign Unit for Speed Check Displays	MISC-002_2
School Zone Flasher Assembly	MISC-003_1
School Zone Flasher on Mast Arm	MISC-003_2
Overhead Sign for "M-2A" Pole	MISC-004
Traffic Signals on "EL" Column	MISC-005_1
Traffic Signals on "EL" Column Detail of Mounting Bracket	MISC-005_2
Push Button Pole Mount	MISC-006
CCTV Equipment Mounting Detail	MISC-007_1
CCTV Cabinet Wiring and Service Panel Detail	MISC-007_2
Precast Concrete Traffic Sidewalk Box	MISC-008
Frame and Cover for Type C Handbox Detail	MISC-009
Traffic Signal "J" Bracket	MISC-010
Gasket and Bolt Gasket Detail	MISC-011
6" SQ. Flange Plate	MISC-012
Inductance Loop Vehicle Detector Installation Details	MISC-013
Remote Traffic Microwave Sensor (RTMS) Installation Details	MISC-014
NEMA "R" Ground Mount Controller Cabinet Equipment Arrangement	MISC-015
Monotube Overhead Sign Mast Arm	MISC-016
Wireless Sensor Equipment Layout	MISC-017
Backfilling	MISC-018
Restoration Areas Outside Prolongated 8' Curb Lane	MISC-019

ADDITIONAL INFORMATION DRAWINGS

Signals on "M-2A" Poles	AI-001
Decorative "M-2A" Pole	AI-002
Articulated Mast Arm Signal Installation (Spider Assemblies)	AI-003
Rigid Mast Arm Signal Installation	AI-004
Signals on "S-1a" Poles	AI-005
Signals on Wood Poles	AI-006
Pedestrian Signals	AI-007
Accessible Pedestrian Signals	AI-008
Overhead Sign Installation Equipment	AI-009
Speed Sign Unit	AI-010
Wireless Sensor	AI-011
School Zone Flasher Installation Equipment	AI-012



**TYPICAL "S-14A" FOUNDATION
(FORMERLY F-1 FOUNDATION)
(FORMER DWG LG-126S)**



**TYPICAL "S" & "T" FOUNDATIONS FOR "S-1a" AND "T-1" POLES
(FORMER DWG LG-170S)**

NOTES:

- 3000 PSI CONCRETE TO BE USED.
- FOR MIDBLOCK POLE LOCATIONS DISTANCE SHALL BE 36" FROM THE FACE OF CURB.
- INSTALL ONE EXTRA 2" BEND IN ALL POLE FOUNDATIONS THAT ARE TO HAVE A CONTROLLER OR MAST ARM ATTACHED, OR WHEN DIRECTED BY THE ENGINEER. THE EXTRA BEND SHALL BE CLOSED WITH PIPE CAPS. HOWEVER, ANY FOUNDATION MUST HAVE A MINIMUM OF THREE ELBOWS.

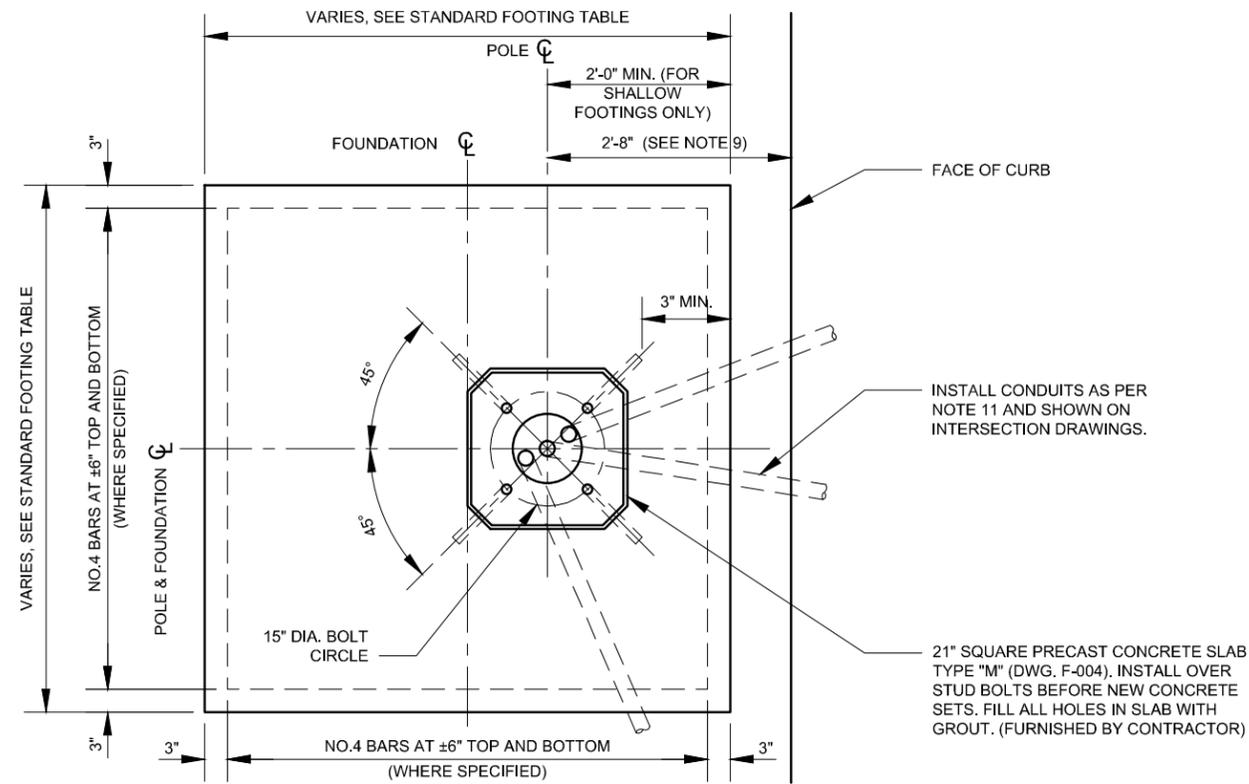
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, December 2013

REVISION			
NO	DATE	BY	DESCRIPTION
5	03/2011	GPI	REPLICATED IN CADD
4	11/1967	JBC	LG-126S REVISION
3	05/1967	JBC	LG-126S REVISION
2	08/1964	JBC	LG-126S REVISION
1	02/1964	JBC	LG-126S REVISION
0	06/1963	GS	LG-126S CREATED

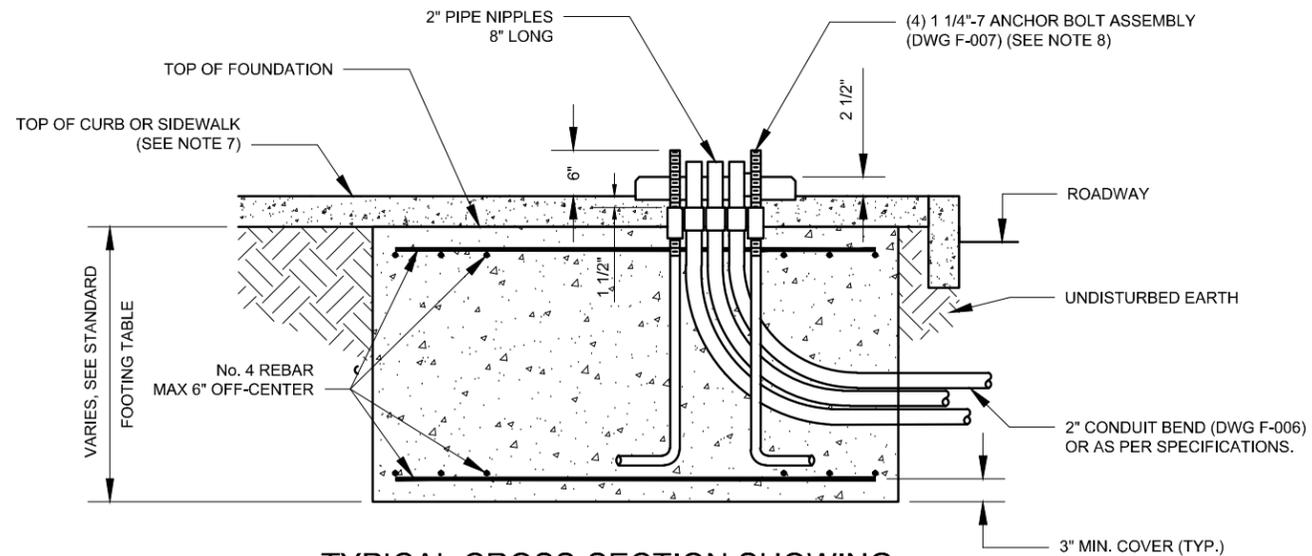


REVISION			
NO	DATE	BY	DESCRIPTION
3	03/2011	GPI	REPLICATED IN CADD
2	01/1968	JBC	REVISED SLAB ADDED NOTE
1	07/1967	JBC	LG-170S REVISION
0	08/1965	ADB	LG-170S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
TYPICAL FOUNDATIONS "S-14A", "S" & "T" FOR "S-14A", "S-1a" AND "T-1" POLES		
SCALE: 1/2" = 1'-0"	OLD DRAWING NO. LG-126S LG-170S	DRAWING NO. F-001



PLAN VIEW

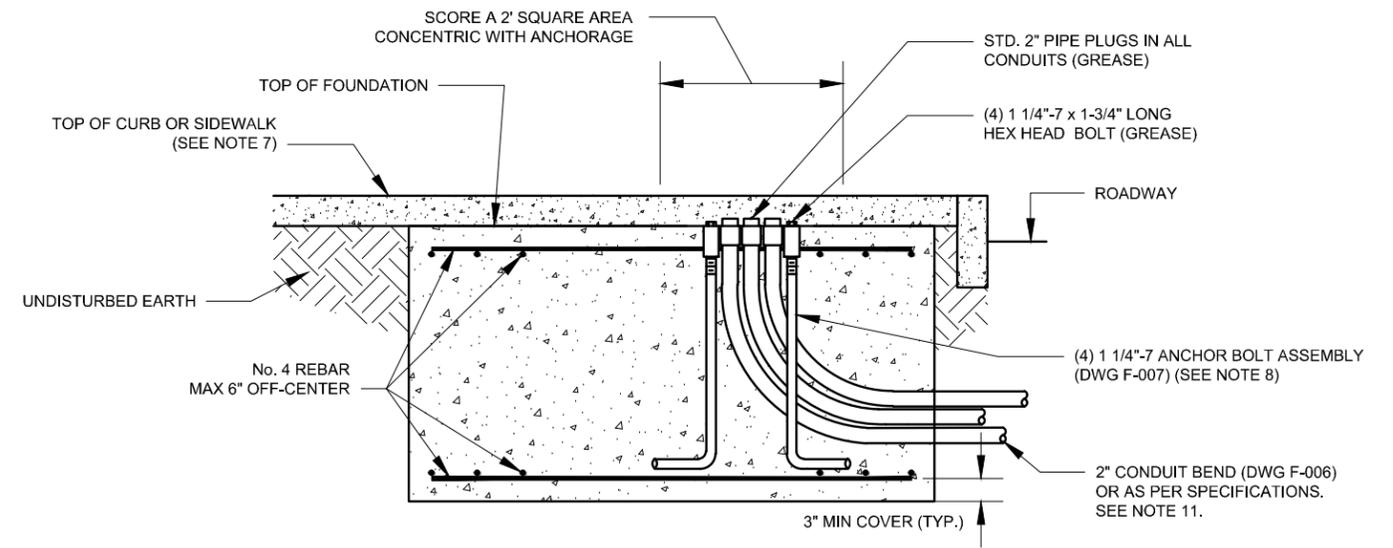


TYPICAL CROSS-SECTION SHOWING METHOD OF PREPARING FOUNDATION FOR PRESENT POLE INSTALLATION

STANDARD FOOTING TABLE			
STANDARD PLAN SIZES IN FEET AND INCHES FOR			
M-2 OR M-2A POLES WITH	5'-0" MIN. DEPTH	3'-0" MIN. DEPTH WITH REINFORCEMENT	2'-0" MIN. DEPTH WITH REINFORCEMENT
ONE MAST ARM & NO LUMINAIRE ONE MAST ARM & ONE LUMINAIRE	3'-0"x3'-0" (M2-5S)	5'-9"x5'-9" (M2-3S)	7'-0"x7'-0" (M2-2S)
ONE MAST ARM & TWO LUMINAIRES TWO MAST ARMS & NO LUMINAIRE TWO MAST ARMS & ONE LUMINAIRE TWO MAST ARMS & TWO LUMINAIRE	4'-0"x4'-0" (M2-5T)	7'-0"x7'-0" (M2-3T)	8'-9"x8'-9" (M2-2T)

"STANDARD FOOTING TABLE" NOTES:

1. USE ABOVE "STANDARD FOOTING TABLE" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. NUMBERS IN PARENTHESES DESIGNATE TYPE OF FOOTING.



TYPICAL CROSS-SECTION SHOWING METHOD OF PREPARING FOUNDATION FOR FUTURE POLE INSTALLATION

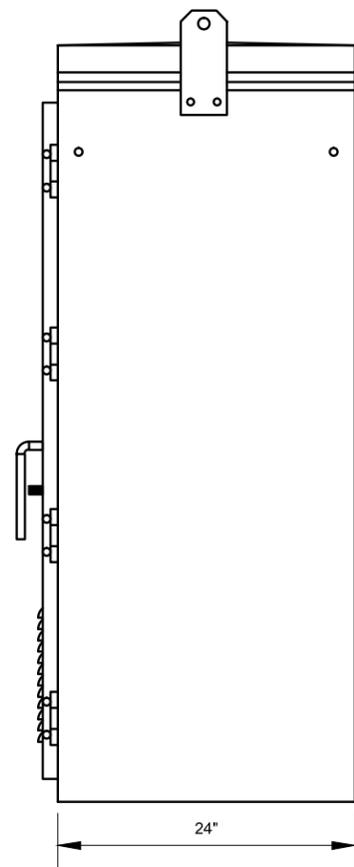
NOTES:

1. CONCRETE SHALL BE 3,000 PSI TEST CONCRETE
2. CONCRETE SHALL BE POURED AGAINST UNDISTURBED EARTH
3. FOOTINGS OVER EXISTING SUBSURFACE STRUCTURE SHALL BE FOUNDED DIRECTLY ON THE ROOF OF THE SUBSTRUCTURE WITH NO INTERMEDIATE LAYER OF SOIL.
4. WHERE REQUIRED, C OF POLE MAY BE OFFSET AS SHOWN IN PLAN VIEW IN DIRECTION OF REFERENCE CURB LINE ONLY.
5. CAP UNUSED NIPPLES AND PLUG OTHERS WITH OAKUM AND SEAL.
6. LOCATE DOOR OF TRANSFORMER BASE AS DIRECTED BY ENGINEER.
7. SIDEWALK FINISH TO BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS OF NEW YORK CITY DEPT OF TRANSPORTATION.
8. FOR MODIFICATION OF STANDARD ANCHOR BOLTS FOR INSTALLATION IN SHALLOW FOOTINGS; ALL COLD BENDS SHALL BE UNIFORM AND A MINIMUM RADIUS OF 10 INCHES.
9. FOR MIDBLOCK POLE LOCATIONS DISTANCE SHALL BE 36" FROM THE FACE OF CURB.
10. REBARS SHALL BE USED WITH SPREAD FOUNDATION ONLY, PLACED NO MORE THAN 6" OFF-CENTER TO FORM PERPENDICULAR LATHING PATTERN.
11. INSTALL ONE EXTRA 2" BEND IN ALL POLE FOUNDATIONS THAT ARE TO HAVE A CONTROLLER OR MAST ARM ATTACHED, OR WHEN DIRECTED BY THE ENGINEER, THE EXTRA BEND SHALL BE CLOSED WITH PIPE CAPS. HOWEVER, ANY FOUNDATION MUST HAVE A MINIMUM OF THREE ELBOWS.

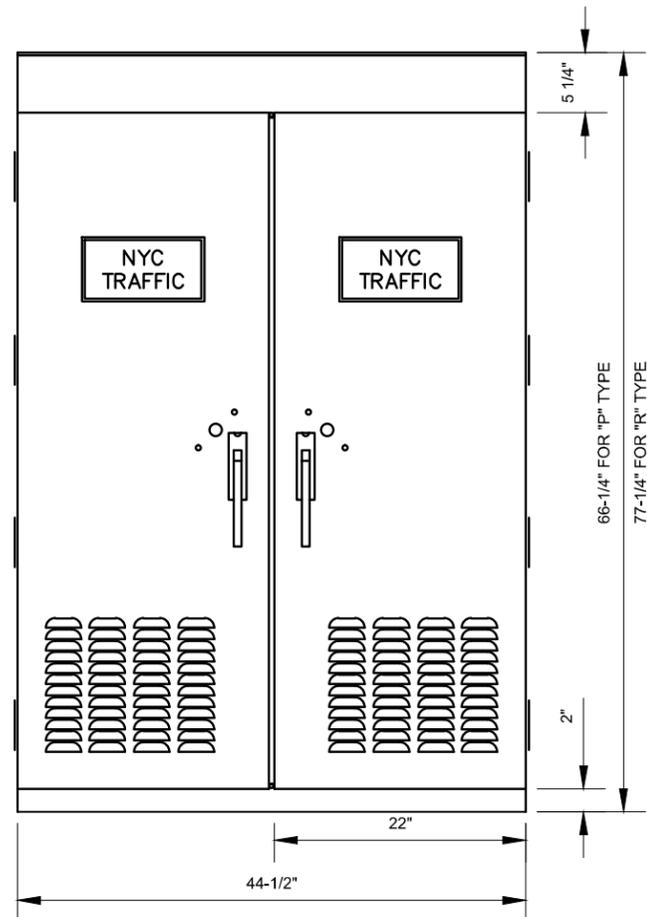


REVISION			
NO	DATE	BY	DESCRIPTION
2	02/2011	GPI	REPLICATED IN CADD
1	05/1967	ADB	ADDED TYPE OF FOOTING DESIGNATION
0	12/1966	ADB	LB-1028S CREATED

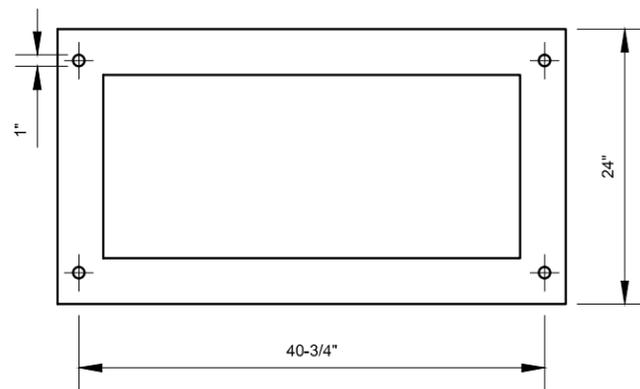
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
FOOTING DETAILS FOR TYPES "M-2A" AND "S-14A" POLES		
SCALE:	OLD DRAWING NO.	DRAWING NO.
1/2" = 1'-0"	LB-1028S	F-002



SIDE VIEW



FRONT VIEW

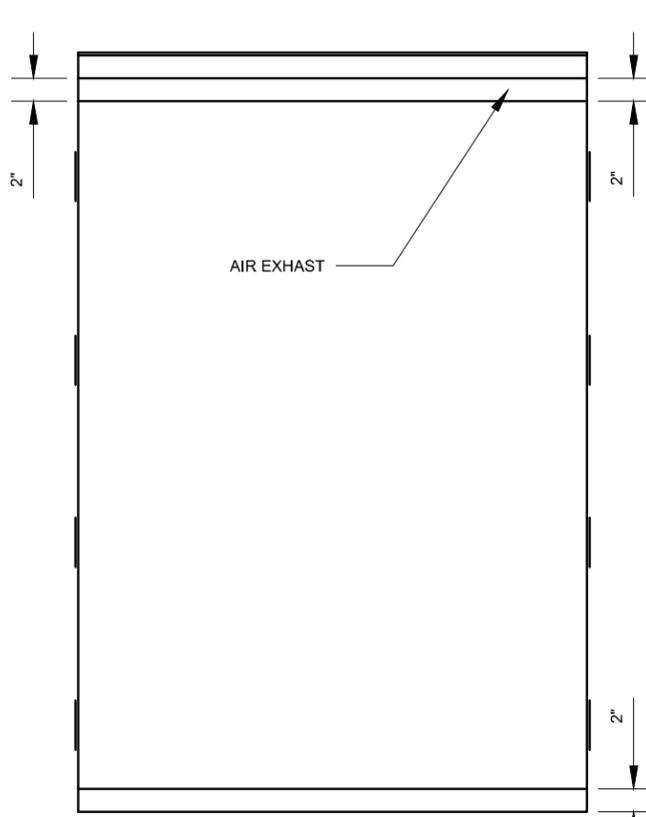


BOTTOM VIEW

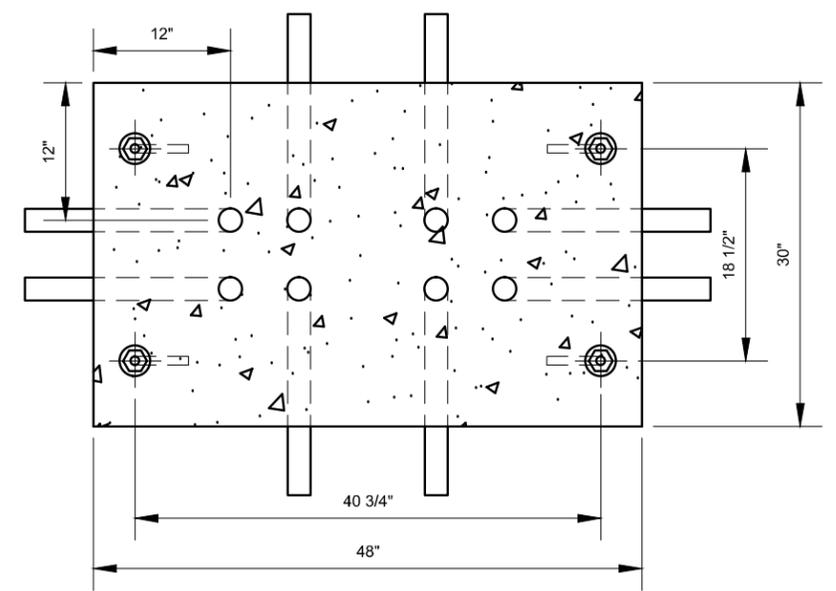
NEMA "P" AND "R" CABINETS

NOTES:

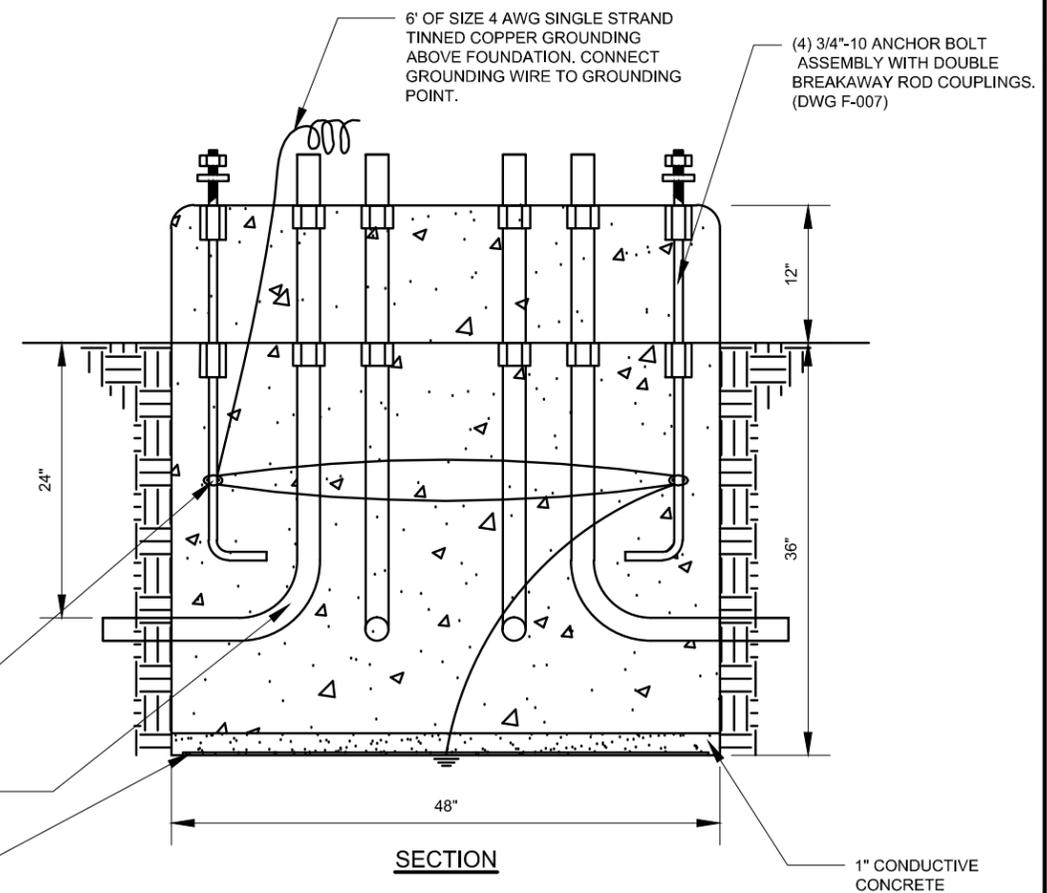
1. LOCATION FOUNDATION MUST BE APPROVED BY NYCDOT.
2. ANCHOR BOLT PROJECTION ABOVE FOUNDATION SHALL BE 3-1/2" TO 4-1/2"
3. CONDUIT PROJECTION ABOVE FOUNDATION SHALL BE 1" TO 4"
4. CONTINUOUS TINNED COPPER GROUNDING WIRE SHALL BE CONNECTED TO EACH ANCHOR BOLT WITH BRONZE GROUNDING CONNECTOR BEFORE CONTINUING DOWN TO THE GROUND PLATE
5. SHALL COMPLY WITH NYCDOT SPECIFICATION 46C UNLESS NOTED



BACK VIEW



PLAN



SECTION

CABINETS FOUNDATION

BRONZE GROUNDING CONNECTOR
UL LISTED FOR UNDERGROUND USE
(ONE PER BOLT)

2" ELBOWS WITH DOUBLE BREAKAWAY
COUPLINGS (DWG F-006)
(2 PCS IN EACH DIRECTION)

28"x46"x1/4" GALVANIZED STEEL
GROUNDING PLATE INCASED IN
CONDUCTIVE CONCRETE

6" OF SIZE 4 AWG SINGLE STRAND
TINNED COPPER GROUNDING
ABOVE FOUNDATION. CONNECT
GROUNDING WIRE TO GROUNDING
POINT.

(4) 3/4"-10 ANCHOR BOLT
ASSEMBLY WITH DOUBLE
BREAKAWAY ROD COUPLINGS.
(DWG F-007)

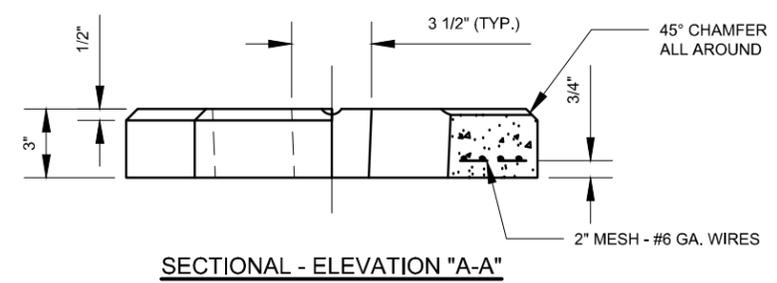
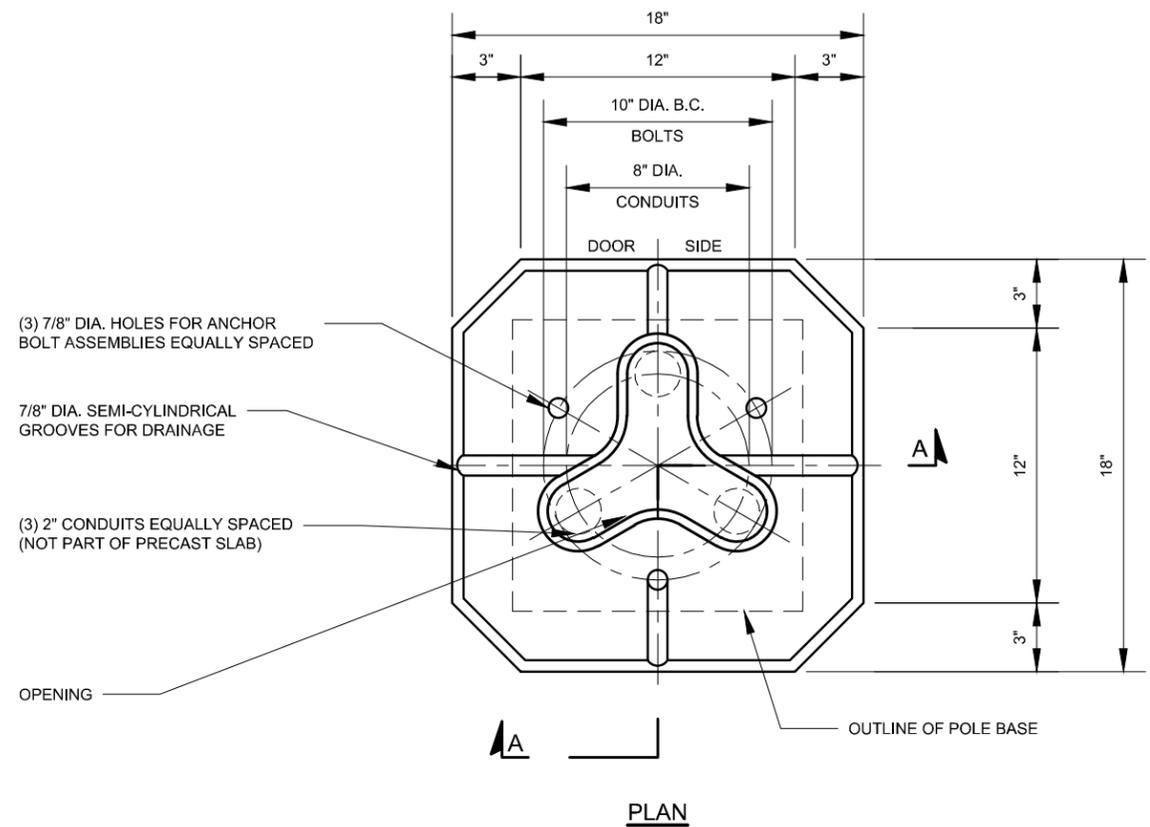
1" CONDUCTIVE
CONCRETE



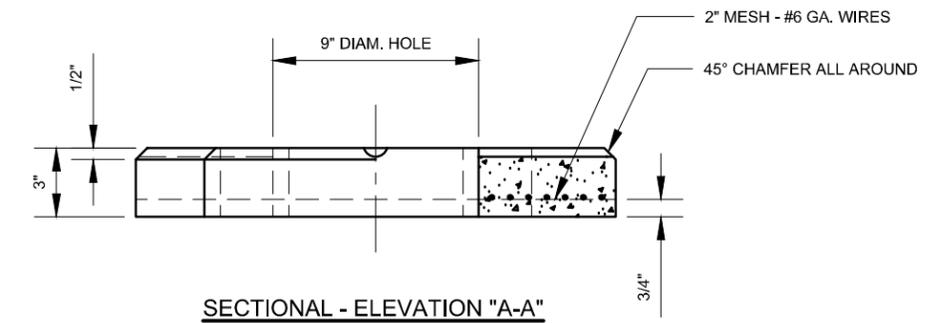
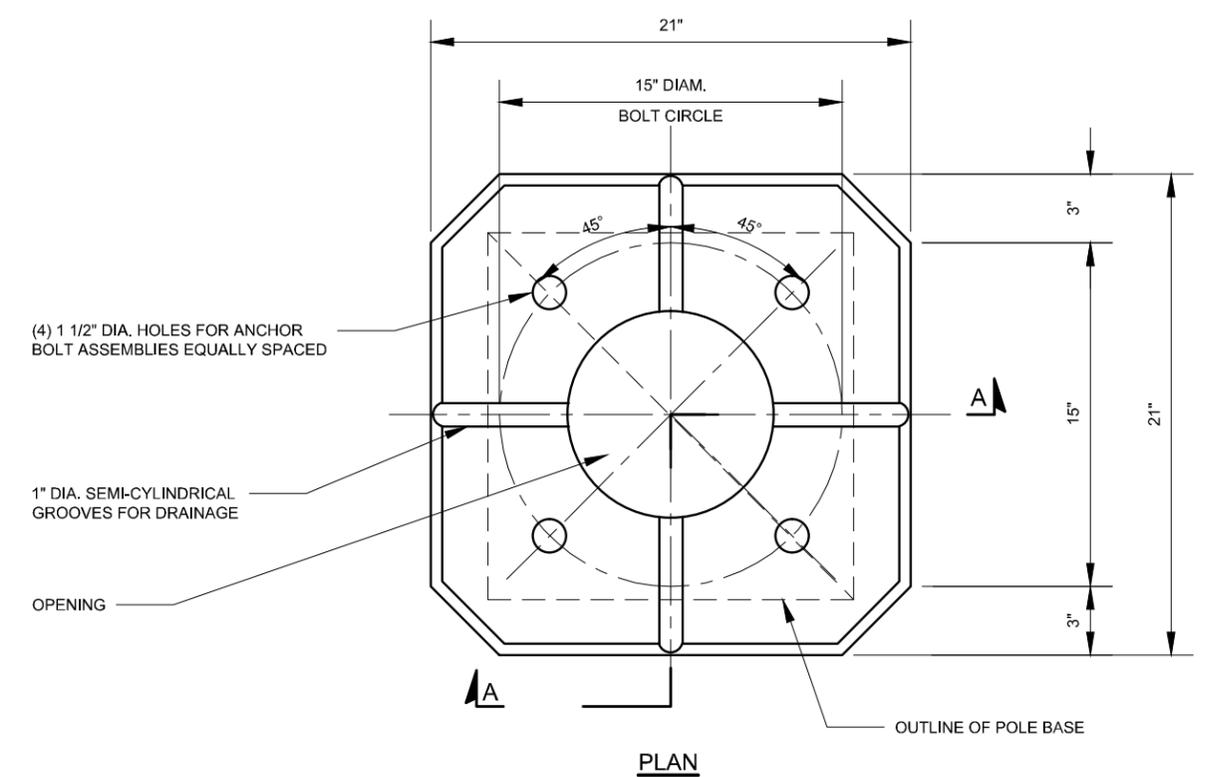
REVISION			
NO	DATE	BY	DESCRIPTION
1	04/2011	GPI	REPLICATED IN CADD
0	04/2011	N/A	GROUND MOUNT CABINET CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
FOUNDATION FOR GROUND MOUNT CONTROLLER CABINET		
SCALE: 3/4" = 1'-0"	OLD DRAWING NO.	DRAWING NO. F-003

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



18" SQUARE PRECAST SLAB - TYPE "S"
(FORMER LG-169S)



21" SQUARE PRECAST SLAB - TYPE "M"
(FORMER DWG LG-62S)

NOTE:
1. 3000 PSI CONCRETE TO BE USED.

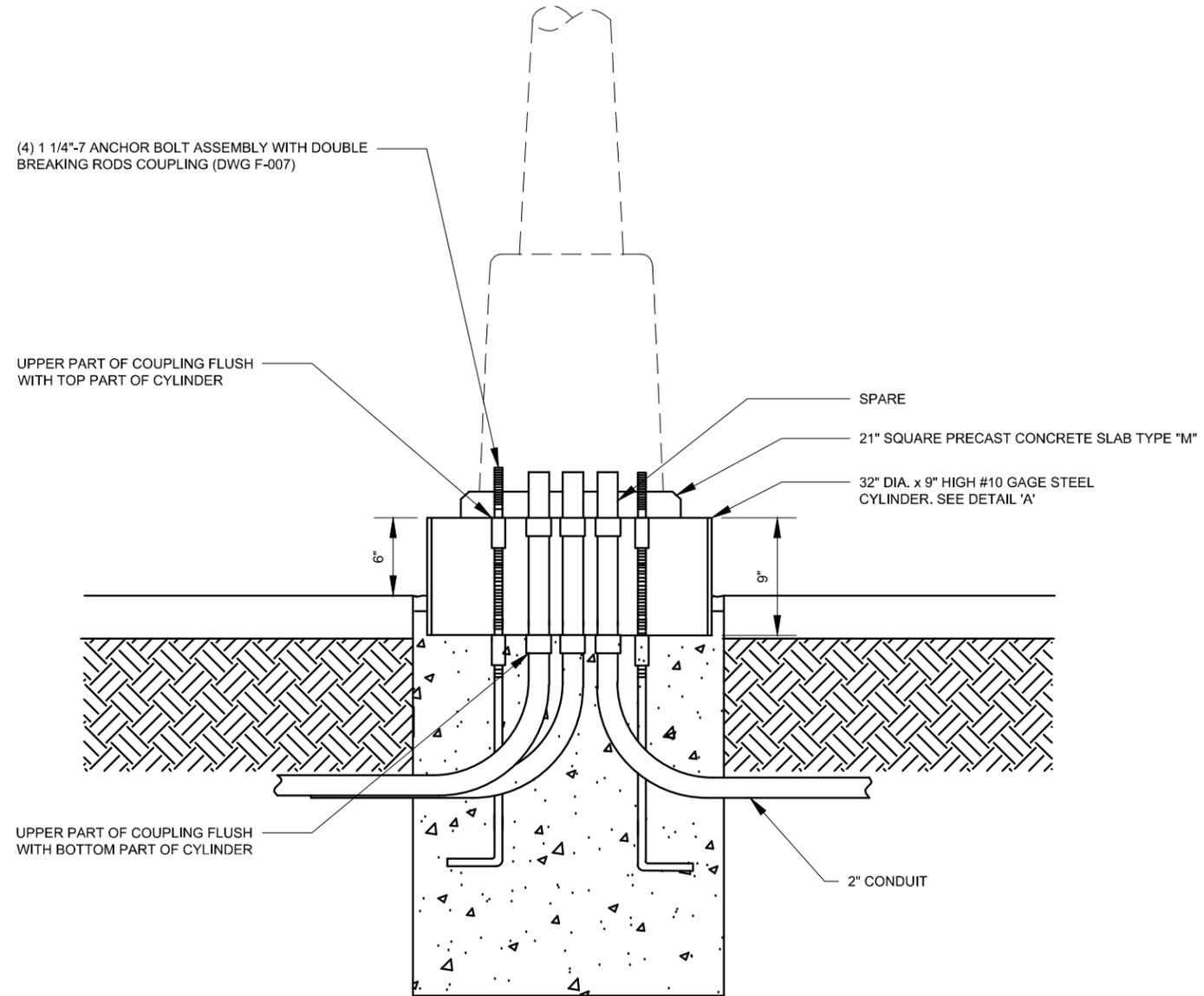
REVISION			
NO	DATE	BY	DESCRIPTION
2	03/2011	GPI	REPLICATED IN CADD
1	01/1968	JBC	CONDUIT SLOTS 2 3/8" WIDE
0	08/1965	ADB	LG-169S CREATED



REVISION			
NO	DATE	BY	DESCRIPTION
3	03/2011	GPI	REPLICATED IN CADD
2	03/1963	AC	LG-62S REVISION
1	10/1958	JC	LG-62S REVISION
0	08/1965	JBC	LG-62S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
18" & 21" SQUARE PRECAST SLABS		
SCALE: 1 1/2" = 1'-0"	OLD DRAWING NO. LG-169S LG-62S	DRAWING NO. F-004

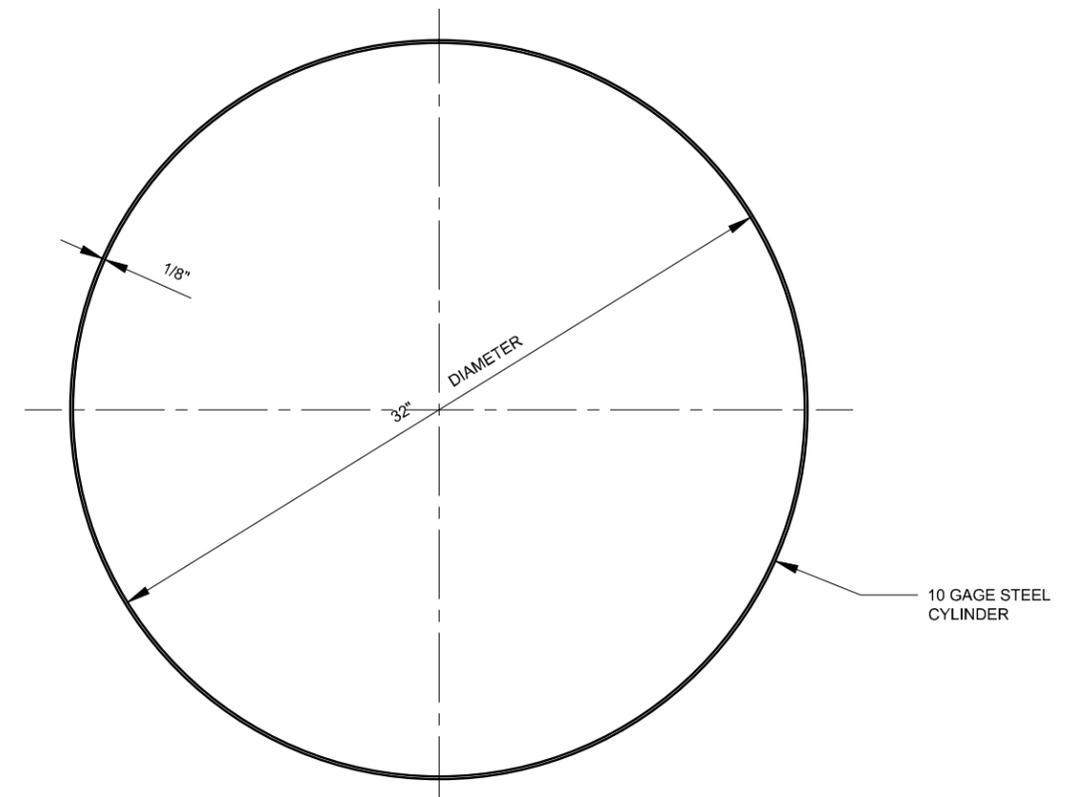
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



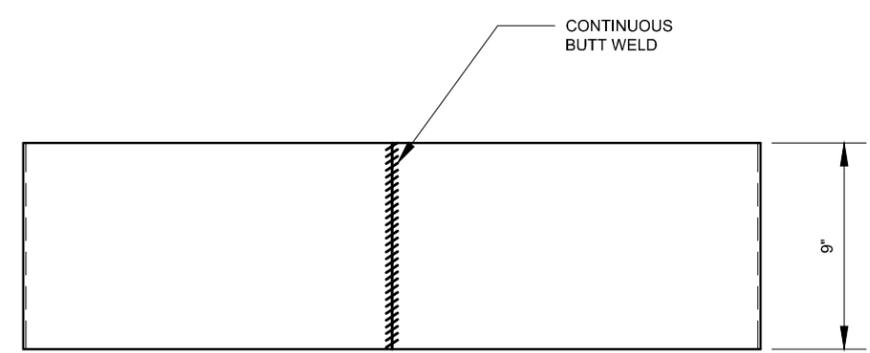
M-2 FOUNDATION WITH STEEL CYLINDER
(FORMER DWG LB-14634S)

NOTE:
1. FOR DETAILS ON M-2 FOUNDATION, SEE DWG F-002.

REVISION			
NO	DATE	BY	DESCRIPTION
1	03/2011	GPI	REPLICATED IN CADD
0	08/2008	JH	LB-14634S CREATED (SUPERSEDES LG-108S)



PLAN



ELEVATION DETAIL 'A'

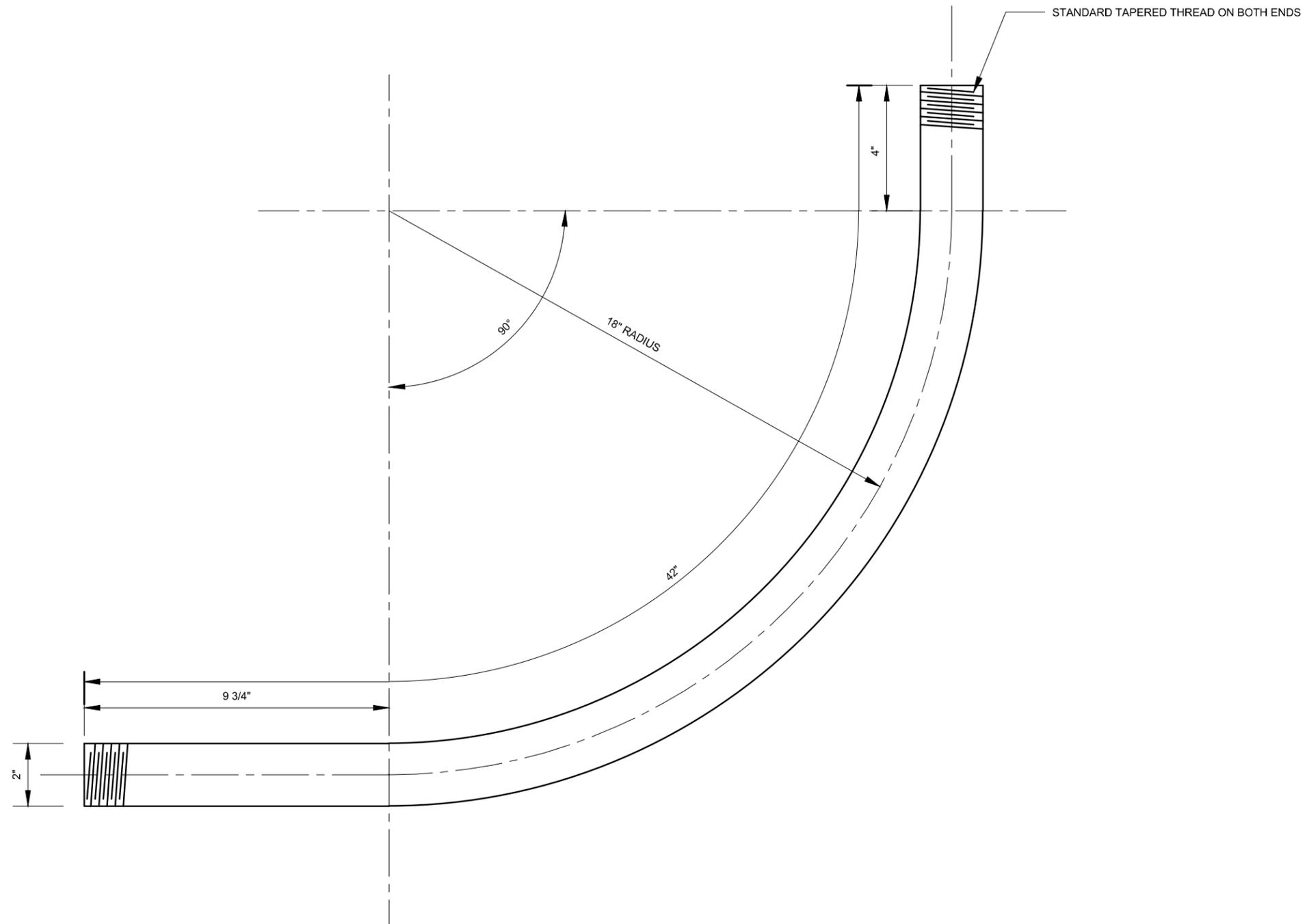
32" DIAMETER X 9" HIGH STEEL CYLINDER
(FORMER DWG LG-7Sb)



REVISION			
NO	DATE	BY	DESCRIPTION
3	03/2011	GPI	REPLICATED IN CADD
2	01/1971	JV	REVISED AND REDRAWN
1	02/1963	HSC	LG-7Sb REVISION
0	11/1962	MF	LG-7Sb CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
"M-2" FOUNDATION WITH 32" DIA. X 9" HIGH STEEL CYLINDER		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.	LG-7Sb LB-14634S	F-005

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013

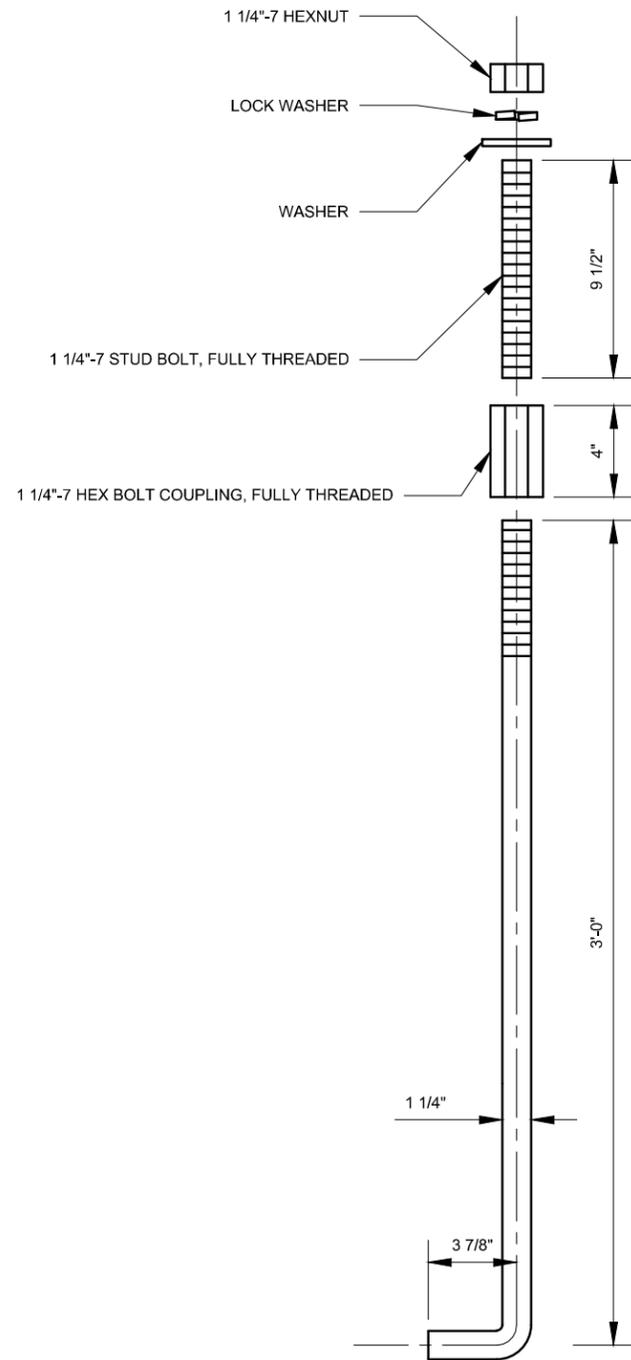


STANDARD 2" STEEL PIPE BEND (GALVANIZED)

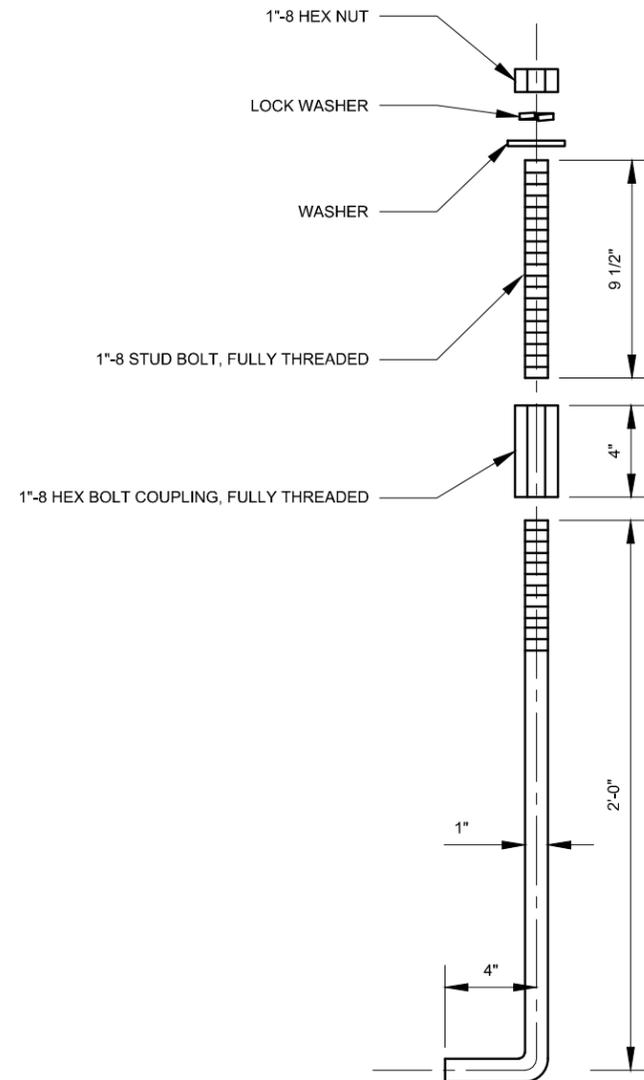


REVISION			
NO	DATE	BY	DESCRIPTION
1	03/2011	GPI	REPLICATED IN CADD
0	01/1962	JBC	LG-97-S CREATED

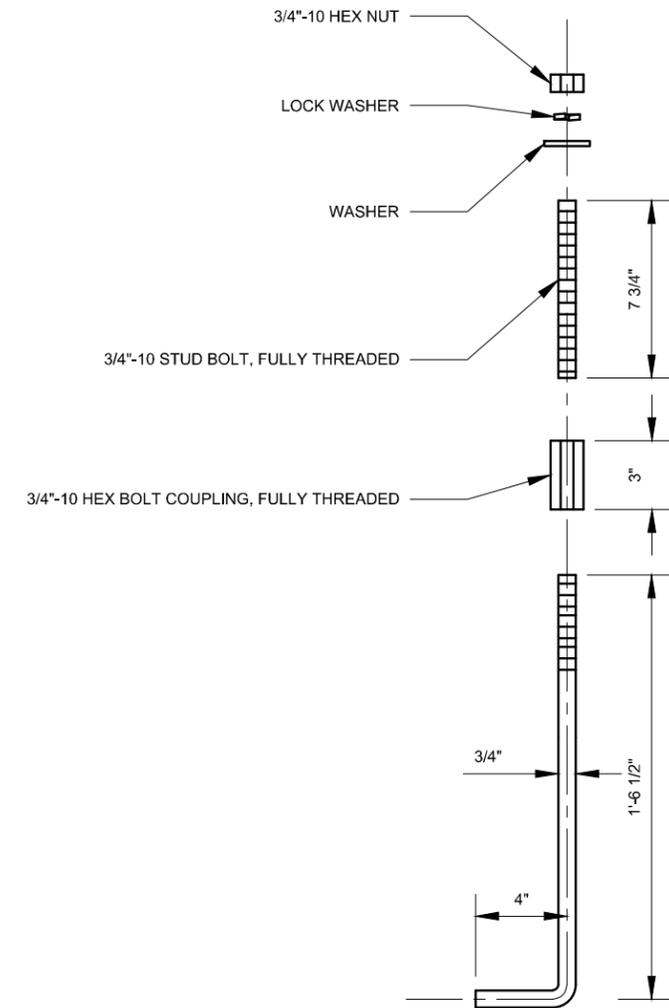
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
DETAIL OF STANDARD 2" PIPE CONDUIT BEND		
SCALE:	OLD DRAWING NO.	DRAWING NO.
3" = 1'-0"	LG-97-S	F-006



ASSEMBLY "B"
(4 REQUIRED PER POLE)
FOR "M-2A" POLE



ASSEMBLY "C"
(4 REQUIRED PER POLE)
FOR "S-14A" & STREET LIGHT POLES



ASSEMBLY "D"
(3 REQUIRED PER POLE)
FOR "S-1" & "T-1" POLES

NOTE:

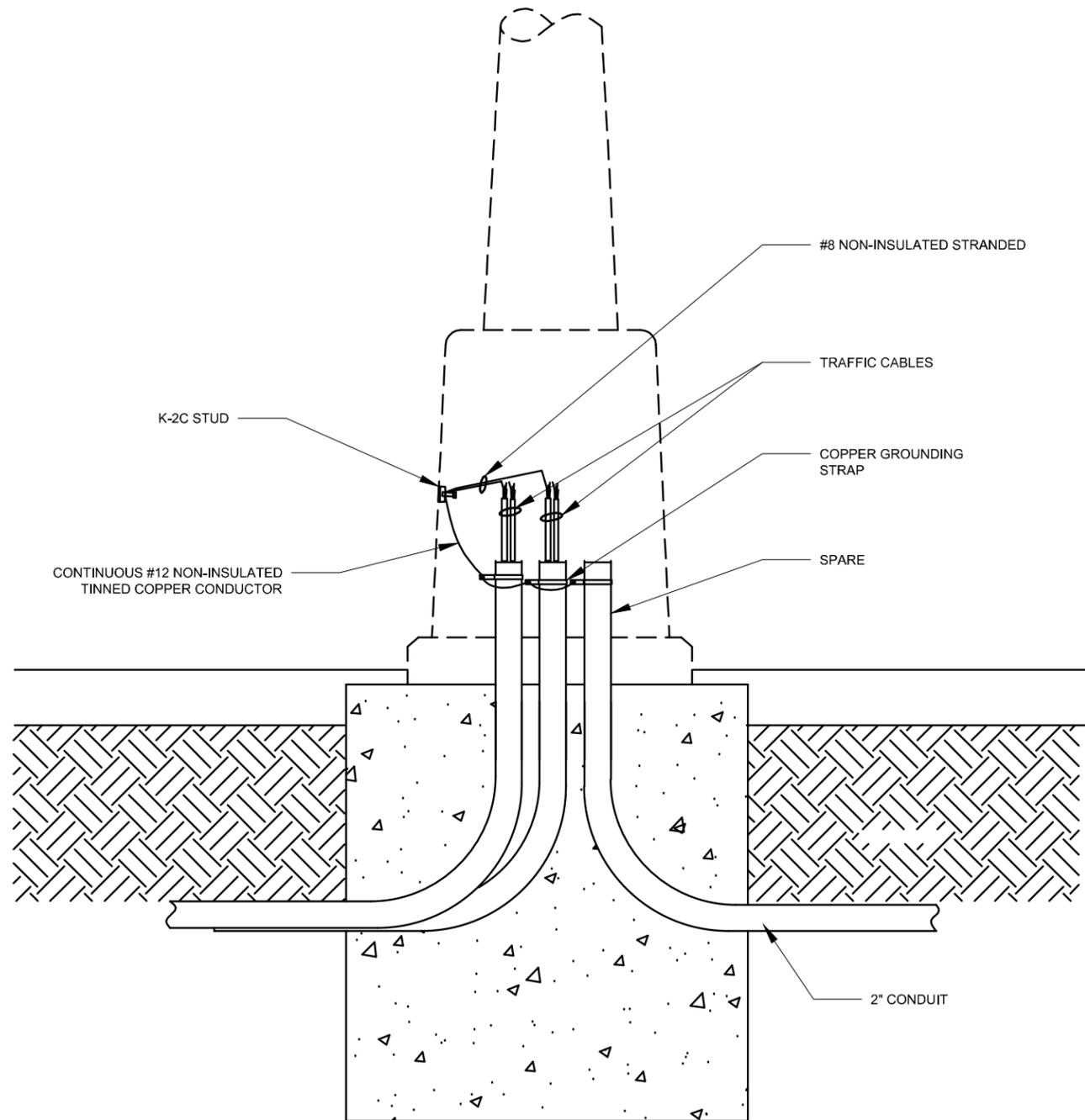
- HEX BOLT COUPLINGS SHALL BE GREASED OR ANTI-SIEZE COMPOUNDED



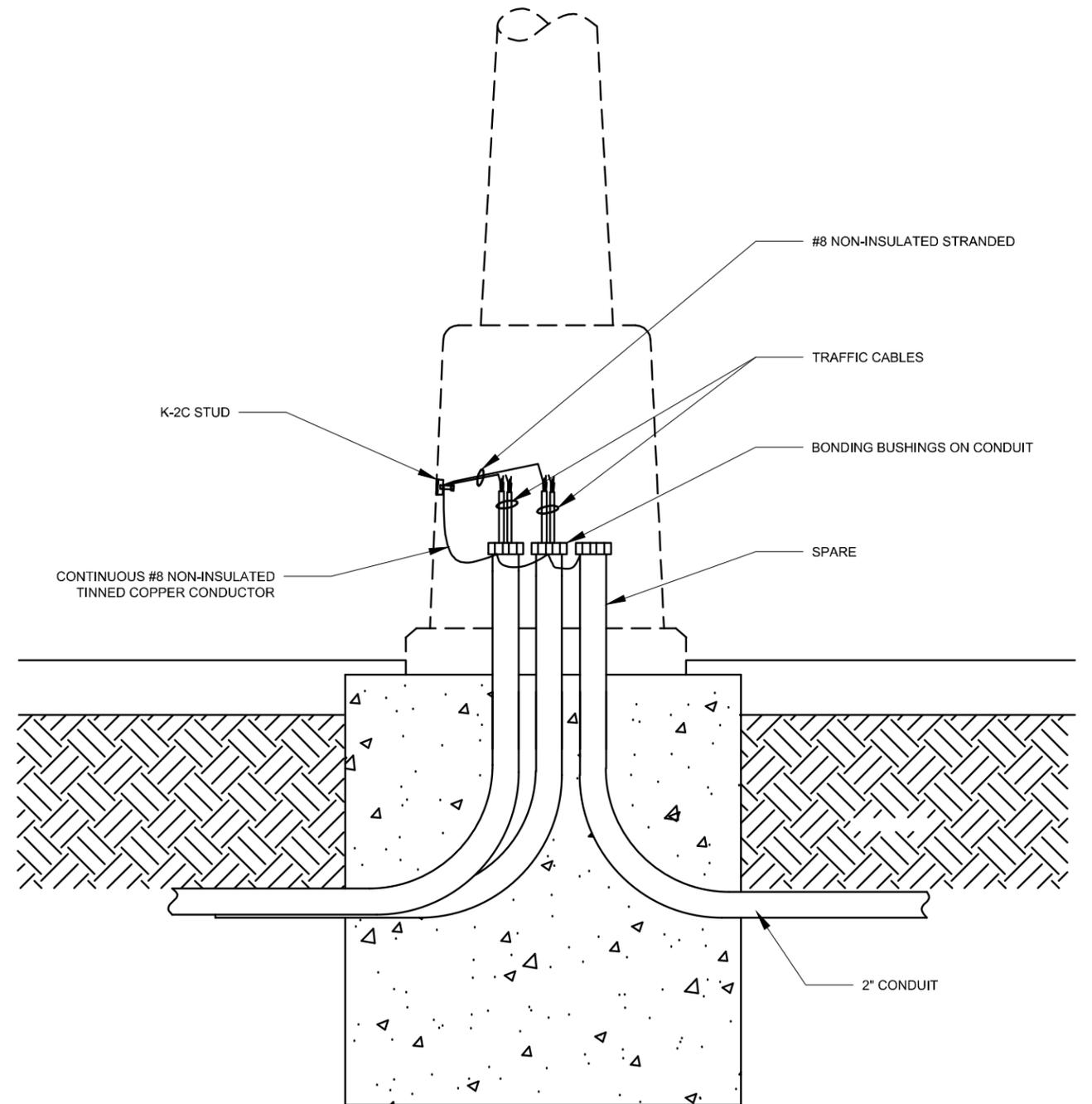
REVISION			
NO	DATE	BY	DESCRIPTION
3	03/2011	GPI	REPLICATED IN CADD
2	12/1967	X.X.	LG-104S REVISION
1	02/1964	X.X.	LG-104S REVISION
0	06/1963	GS	LG-104S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
STANDARD ANCHOR BOLT ASSEMBLIES "B", "C" AND "D"		
SCALE: 1 1/2" = 1'-0"	OLD DRAWING NO. LG-104S	DRAWING NO. F-007

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



GROUNDING DETAIL FOR RETROFIT
(FORMER DWG LB-14005S)

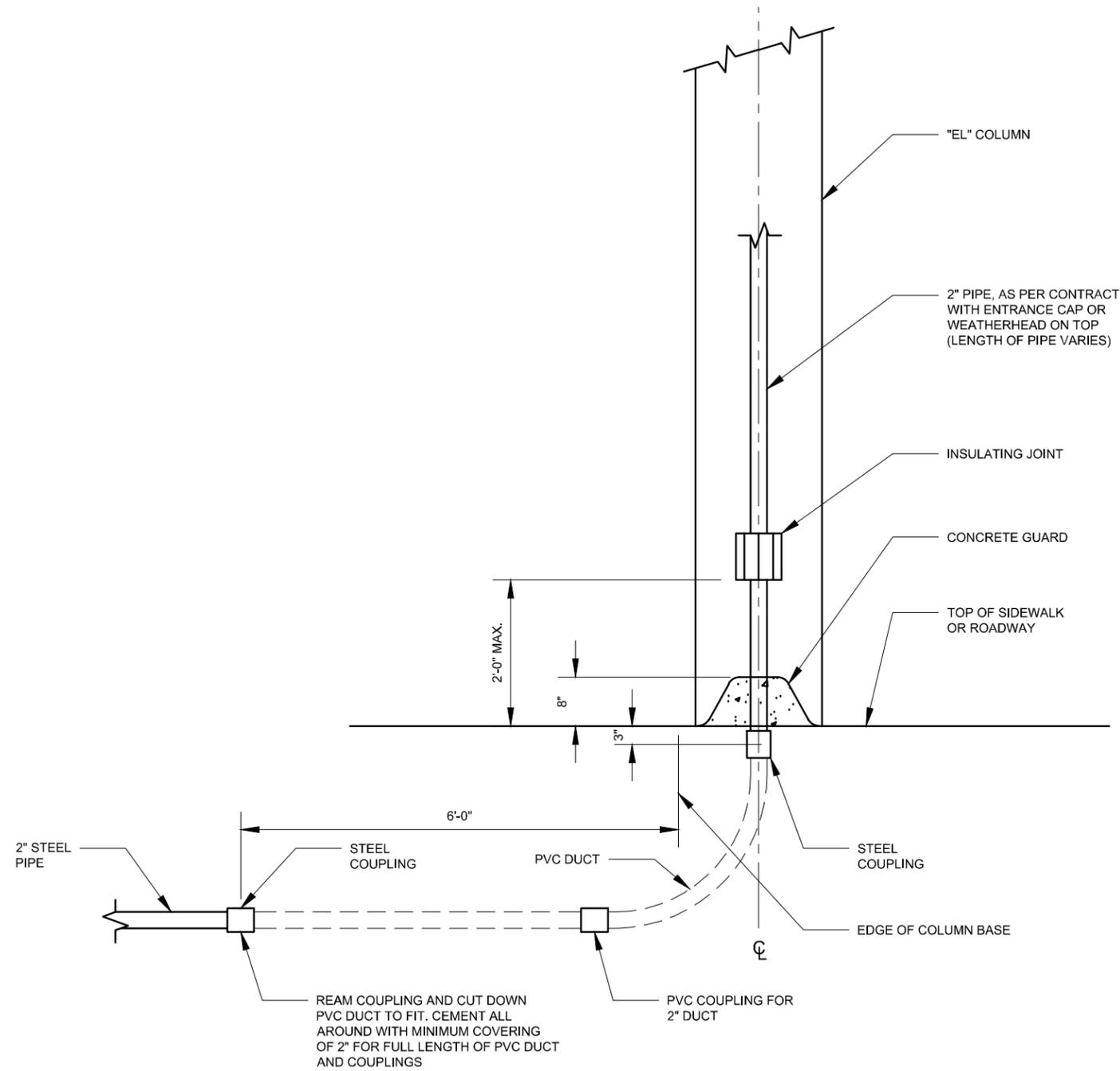


GROUNDING DETAIL FOR NEW INSTALLATION



REVISION			
NO	DATE	BY	DESCRIPTION
1	03/2011	GPI	REPLICATED IN CADD
0	11/2004	JH	LB-14005S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
FOUNDATION GROUNDING DETAIL		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.	LB-14005S	F-008



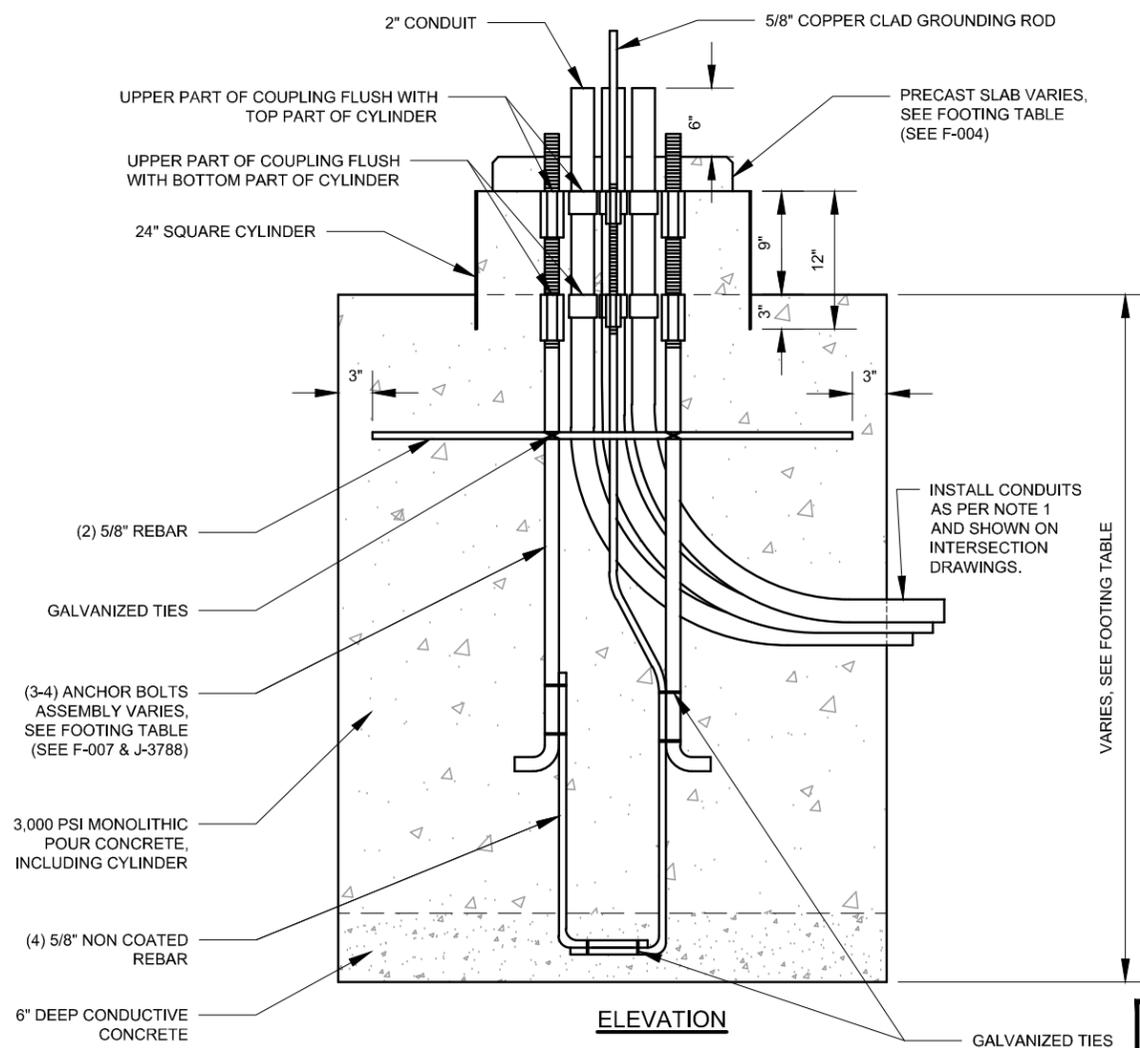
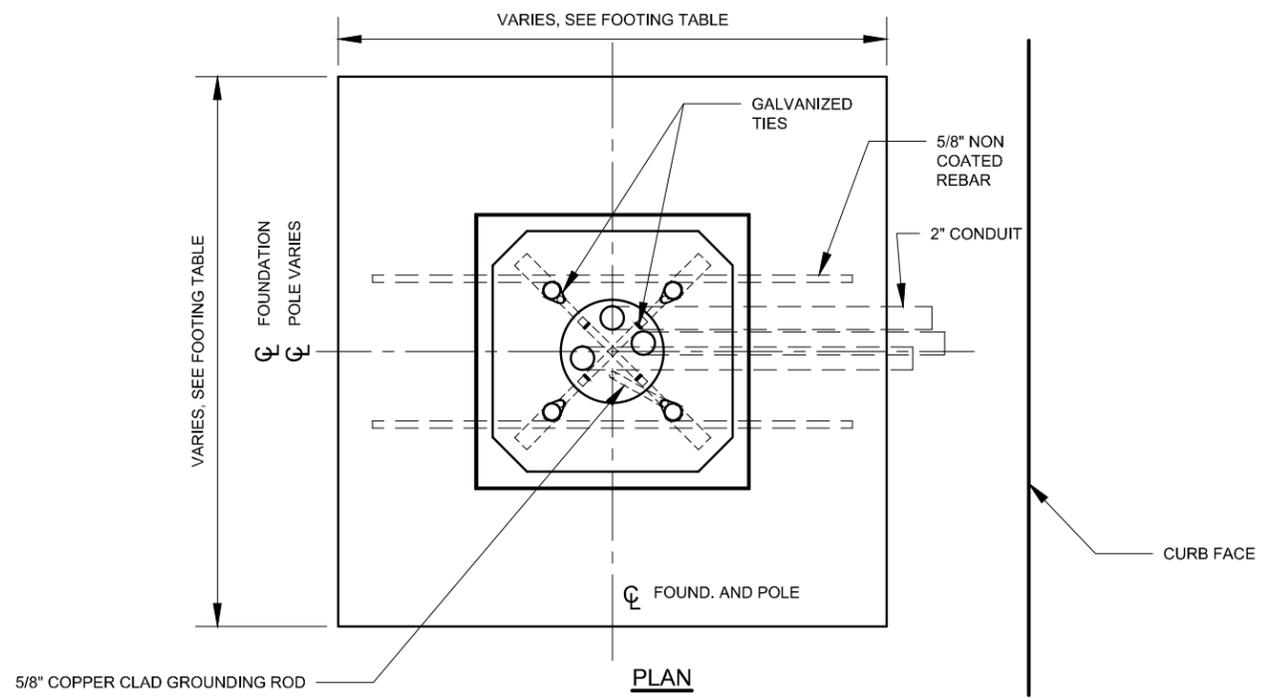
CONDUIT INSTALLATION AT "EL" COLUMN



REVISION			
NO	DATE	BY	DESCRIPTION
2	03/2011	GPI	REPLICATED IN CADD
1	10/1962	J.C.	LG-15S REVISION
0	08/1956	CLERK	LG-15S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
CONDUIT INSTALLATION AT "EL" COLUMN		
SCALE:	OLD DRAWING NO.	DRAWING NO.
1/2" = 1'-0"	LG-15S	F-009

POLE TYPE	FOUNDATION SIZE	BOLT CIRCLE DIAMETER	PRECAST SLAB TYPE	ANCHOR BOLT ASSY.
TYPE "S-1a" POLE	2'x2'x5'	10"	18" SQUARE	3/4" DIA. (ASSY "D")
STREET LIGHT POLE	2'x2'x5'	15"	21" SQUARE	1" DIA. x 44" LONG
TYPE "S-14A" POLE	2'x2'x5'	15"	21" SQUARE	1" DIA. (ASSY "C")
TYPE "M-2A" POLE	3'x6'x5'	15"	21" SQUARE	1 1/4" DIA. (ASSY "B")
TYPE "M-3" POLE	3'x9'x5'	15"	21" SQUARE	1 1/4" DIA. (ASSY "B")



NOTES:

1. INSTALL ONE EXTRA 2" BEND IN ALL POLE FOUNDATIONS THAT ARE TO HAVE A CONTROLLER OR MAST ARM ATTACHED, OR WHEN DIRECTED BY THE ENGINEER. THE EXTRA BEND SHALL BE CLOSED WITH PIPE CAPS. HOWEVER, ANY FOUNDATION MUST HAVE A MINIMUM OF THREE ELBOWS.

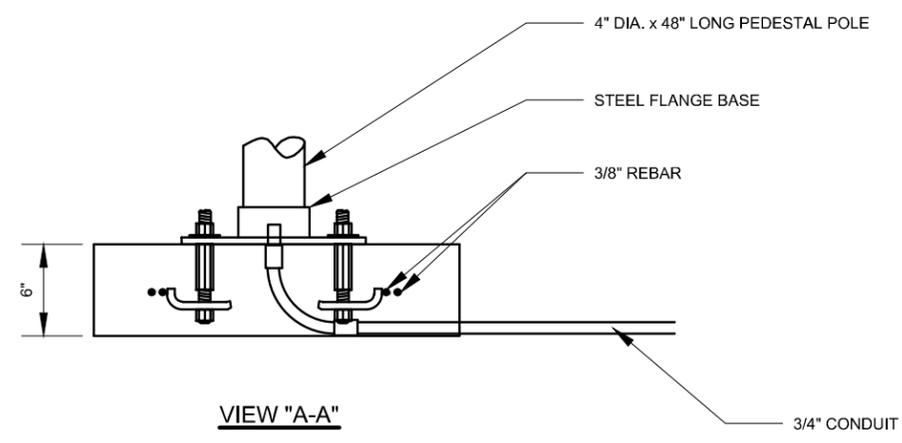
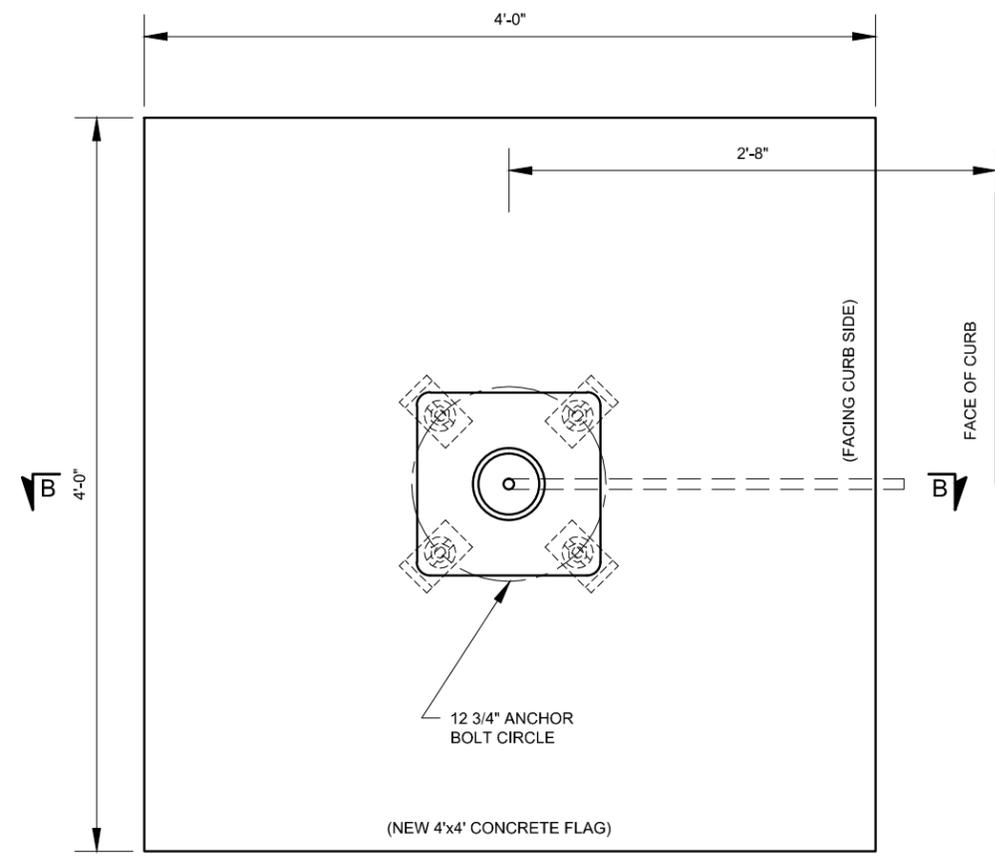
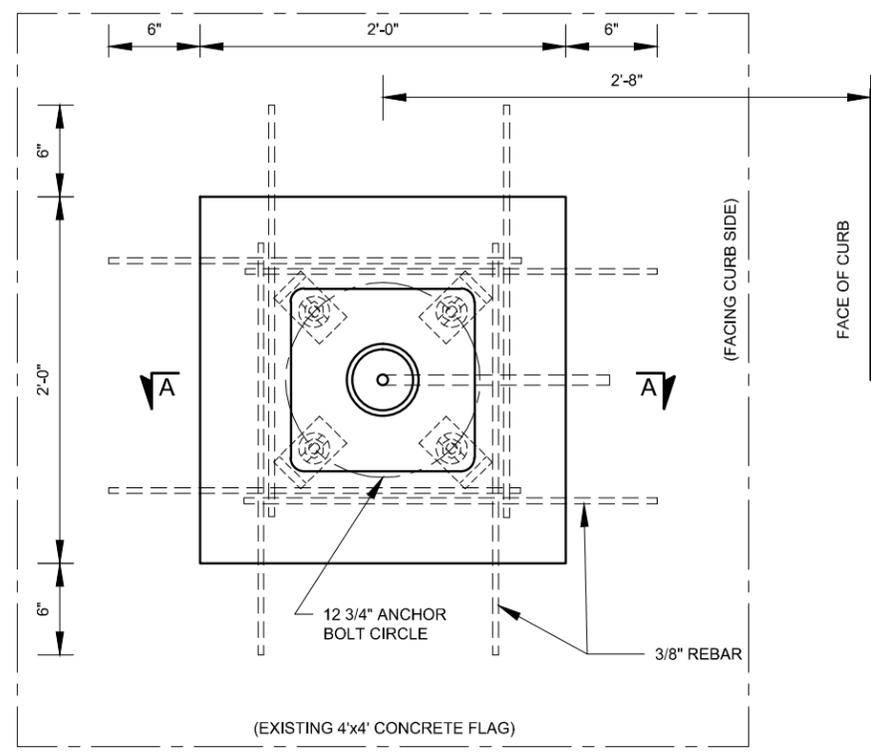
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, December 2013



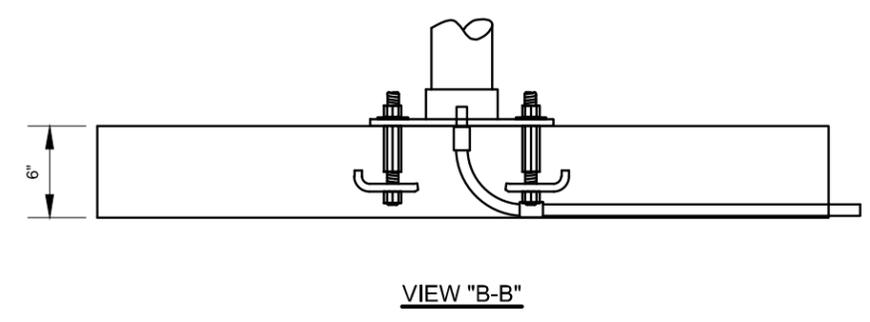
REVISION			
NO	DATE	BY	DESCRIPTION
1	02/2013	GPI	REPLICATED IN CADD
0	02/2013	DR	NYCDOT CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
COASTAL STORM FOUNDATION		
SCALE: 3/4" = 1'-0"	OLD DRAWING NO.	DRAWING NO. F-010

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



TYPICAL 2'x2' FOUNDATION



TYPICAL 4'x4' FOUNDATION

NOTES:

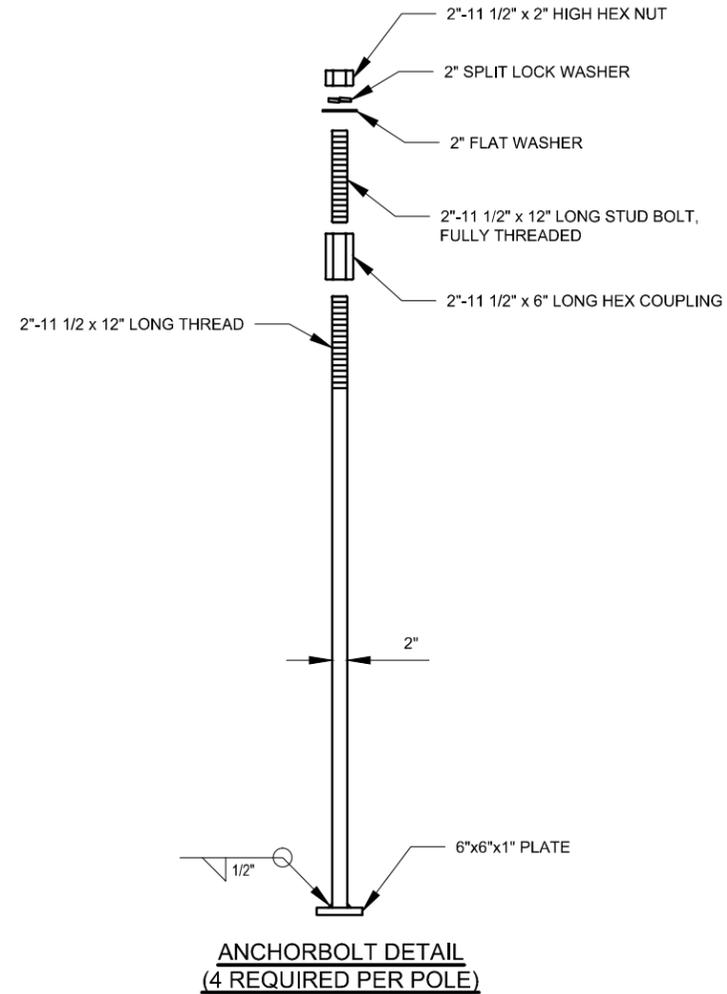
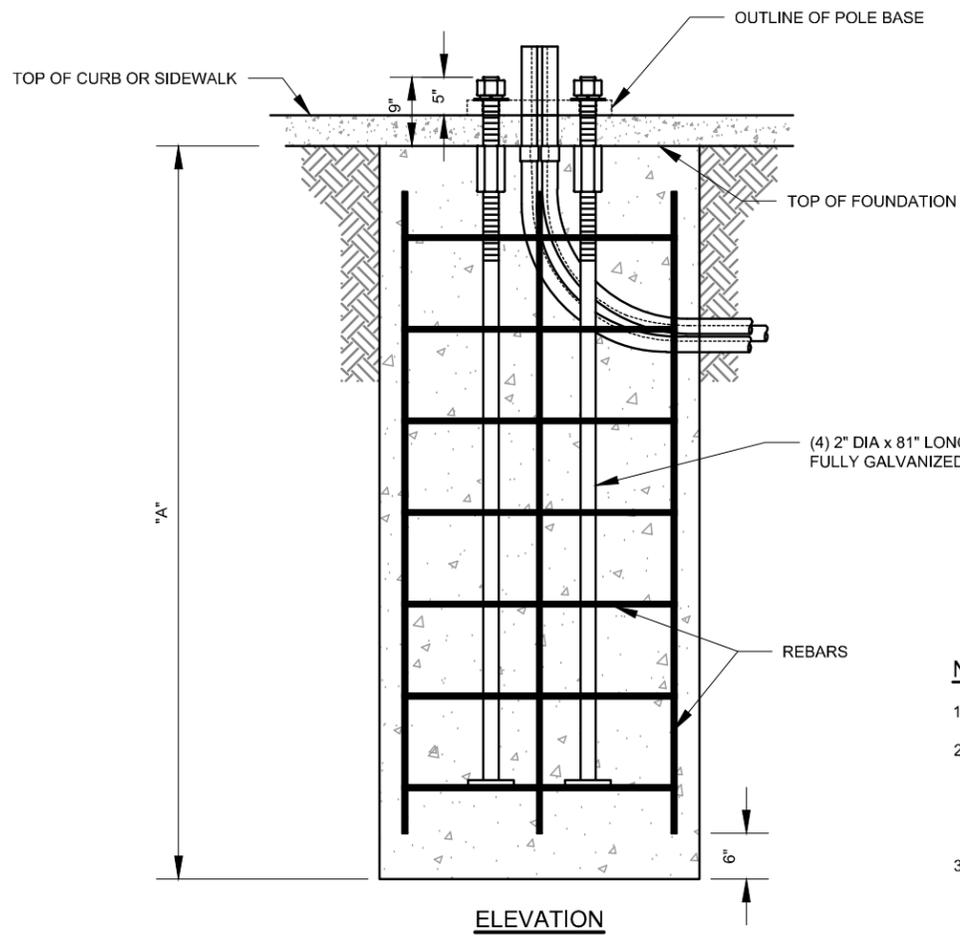
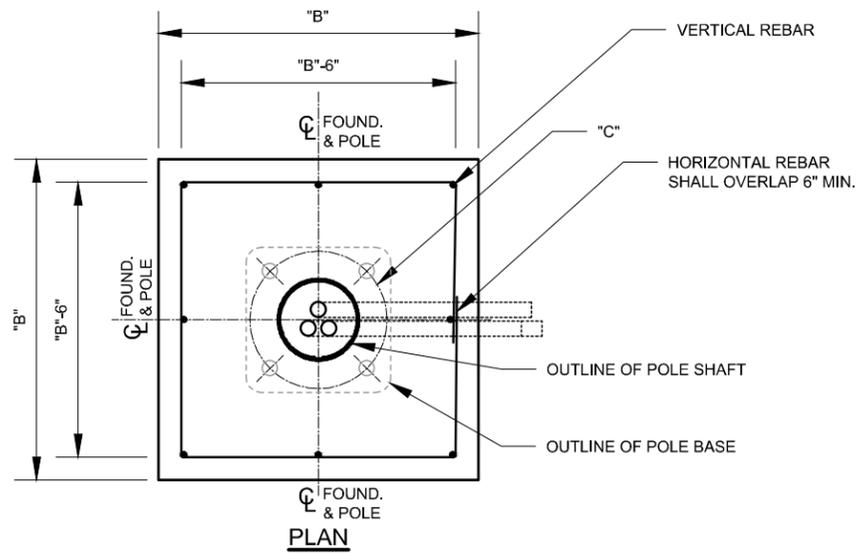
1. FOOTING IS FOR SHALLOW DEPTH INSTALLATION ONLY.
2. FOR TYPICAL 2'x2' FOUNDATION, DRILL HOLES IN EXISTING CONCRETE AND INSERT 3/8\" REBAR PRIOR TO POURING CONCRETE.
3. MONOLITIC 4'x4' FOUNDATION DOES NOT NEED REBAR.



REVISION			
NO	DATE	BY	DESCRIPTION
0	04/2012	GPI	REPLICATED IN CADD

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
ACCESSIBLE PEDESTRIAN SIGNAL (APS) FOUNDATION		
SCALE: 1"=1'-0"	OLD DRAWING NO.	DRAWING NO. F-011

MAST ARM LENGHT (ft)	"A" (ft)	"B" (ft)	"C" (in)
25' TO 35'	7	3	15
40' TO 50'	8	3-1/2	18



NOTES:

- ANCHOR BOLTS, NUTS AND WASHERS SHALL COMPLY WITH ASTM 307 STANDARD.
- REINFORCEMENT IS NOT REQUIRED FOR POLES SUPPORTING MAST ARMS UP TO 35'. WHEN REQUIRED, IT SHALL BE 40,000 PSI AND COMPLY WITH ASTM 615 STANDARD. VERTICAL REBAR LENGTH SHALL BE "A"-1 FEET. HORIZONTAL REBARS SHALL BE VERTICALLY SPACED 12" OFF-CENTER. ALL REBARS SHALL BE SIZE 5 (5/8" DIAMETER). REBAR CAGE SHALL BE CENTERED IN THE FOUNDATION.
- CONDUITS SHALL BE 2" OR 3" AS PER ENGINEER. INSTALL ONE EXTRA BEND IN ALL POLE FOUNDATIONS THAT ARE TO HAVE A CONTROLLER OR MAST ARM ATTACHED, OR WHEN DIRECTED BY THE ENGINEER. THE EXTRA BEND SHALL BE CLOSED WITH PIPE CAPS. HOWEVER, ANY FOUNDATION MUST HAVE A MINIMUM OF THREE ELBOWS.

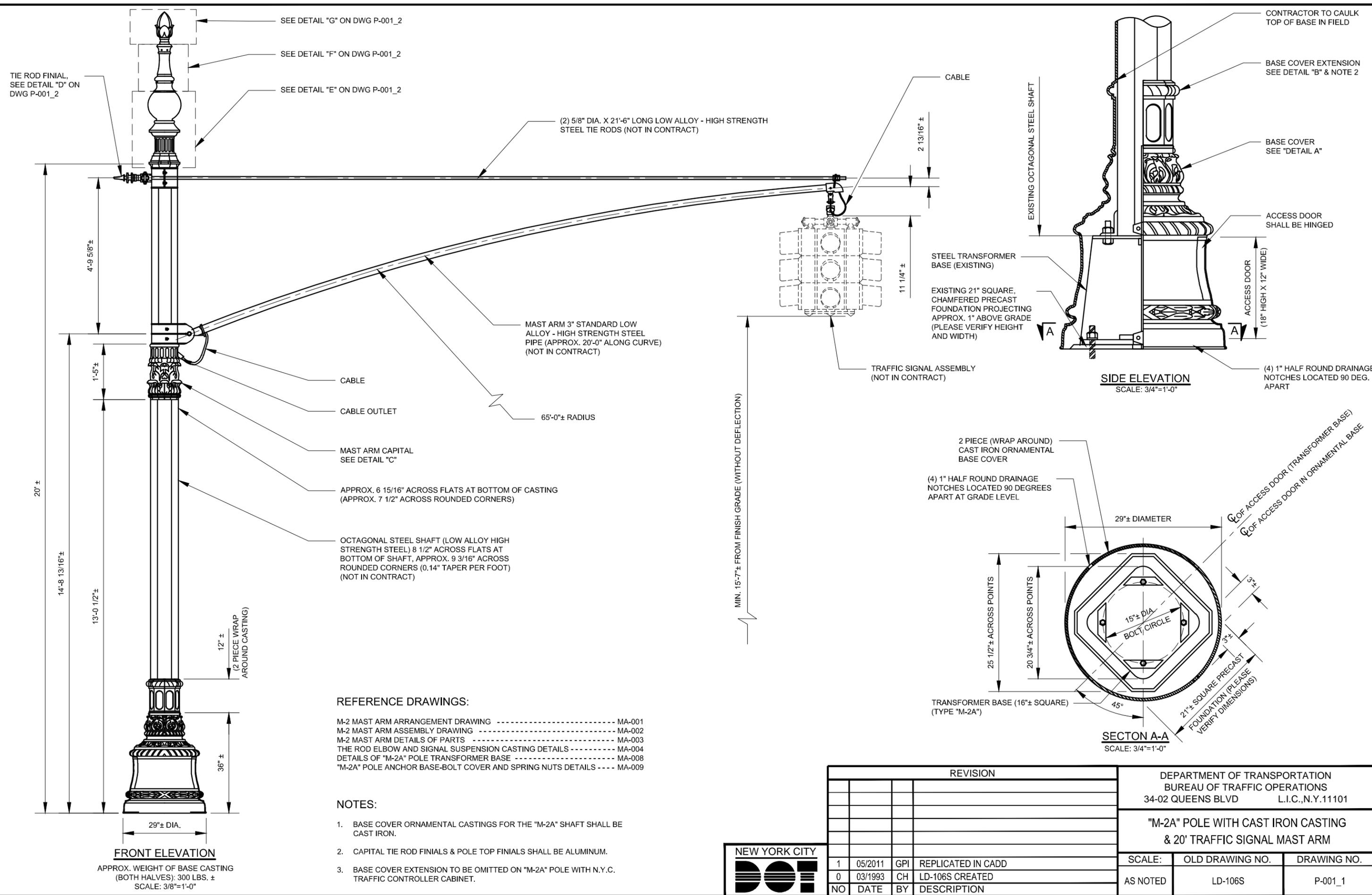
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, December 2013



REVISION			
NO	DATE	BY	DESCRIPTION
0	11/2013	DR	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
NYSDOT REGION 10 TRAFFIC SIGNAL POLE FOUNDATION		
SCALE:	OLD DRAWING NO.	DRAWING NO.
1/2" = 1'-0"		F-012

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



- REFERENCE DRAWINGS:**
- M-2 MAST ARM ARRANGEMENT DRAWING ----- MA-001
 - M-2 MAST ARM ASSEMBLY DRAWING ----- MA-002
 - M-2 MAST ARM DETAILS OF PARTS ----- MA-003
 - THE ROD ELBOW AND SIGNAL SUSPENSION CASTING DETAILS ----- MA-004
 - DETAILS OF "M-2A" POLE TRANSFORMER BASE ----- MA-008
 - "M-2A" POLE ANCHOR BASE-BOLT COVER AND SPRING NUTS DETAILS ----- MA-009

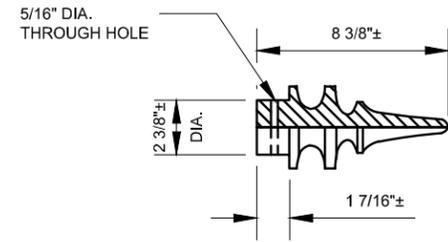
- NOTES:**
1. BASE COVER ORNAMENTAL CASTINGS FOR THE "M-2A" SHAFT SHALL BE CAST IRON.
 2. CAPITAL TIE ROD FINIALS & POLE TOP FINIALS SHALL BE ALUMINUM.
 3. BASE COVER EXTENSION TO BE OMITTED ON "M-2A" POLE WITH N.Y.C. TRAFFIC CONTROLLER CABINET.



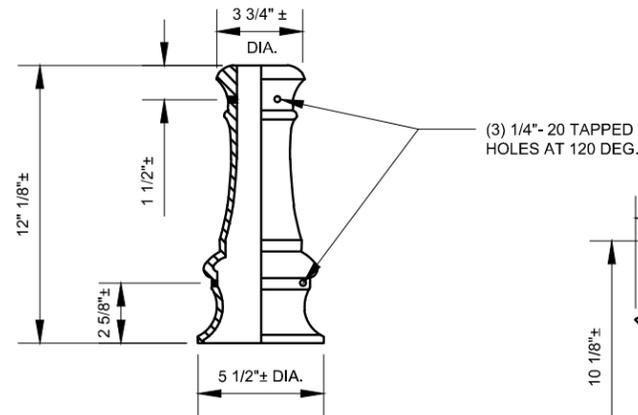
REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2011	GPI	REPLICATED IN CADD
0	03/1993	CH	LD-106S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
"M-2A" POLE WITH CAST IRON CASTING & 20' TRAFFIC SIGNAL MAST ARM		
SCALE: AS NOTED	OLD DRAWING NO. LD-106S	DRAWING NO. P-001_1

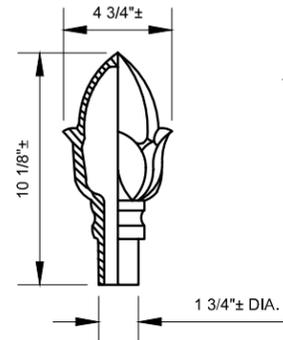
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



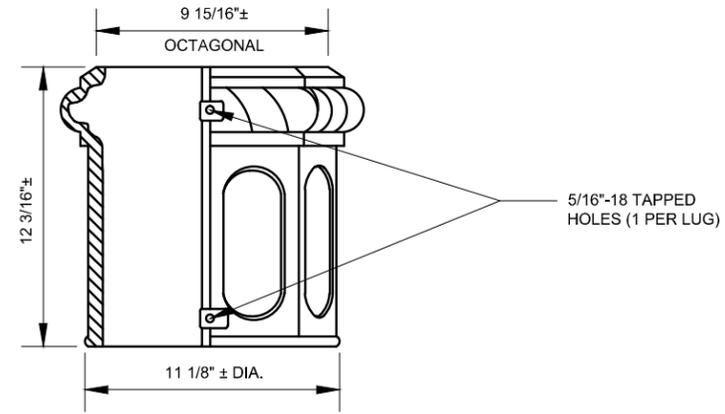
**TIE ROD ARM FINIAL
DETAIL D**



**POLE TOP FINIAL
DETAIL F**



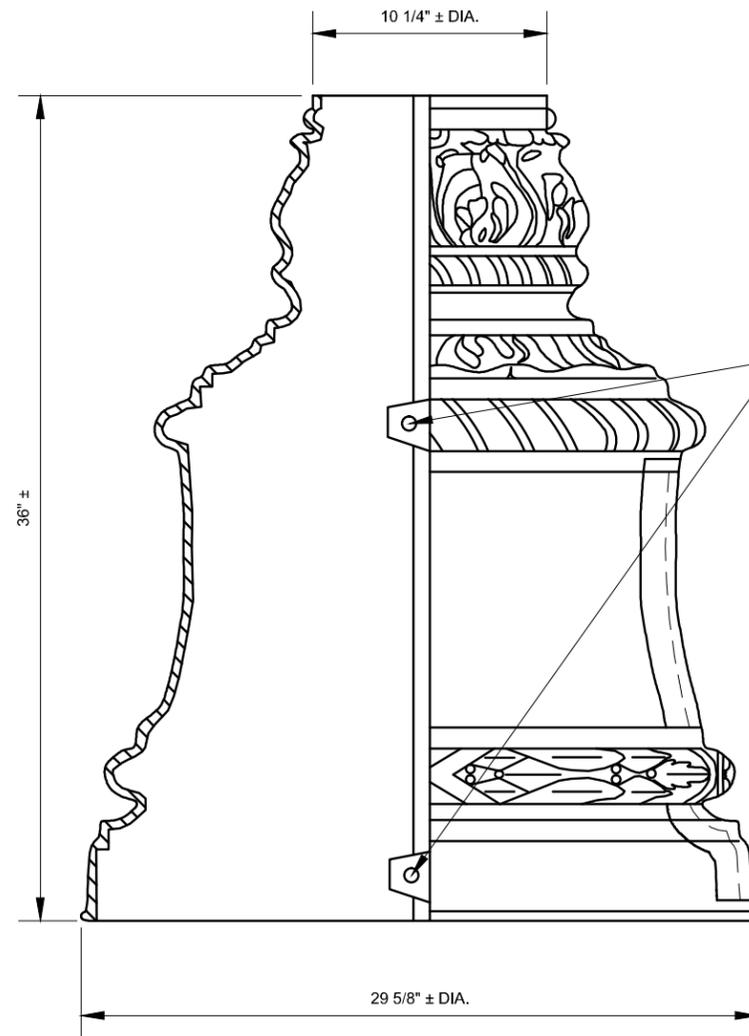
**FINIAL FLOWER
DETAIL G**



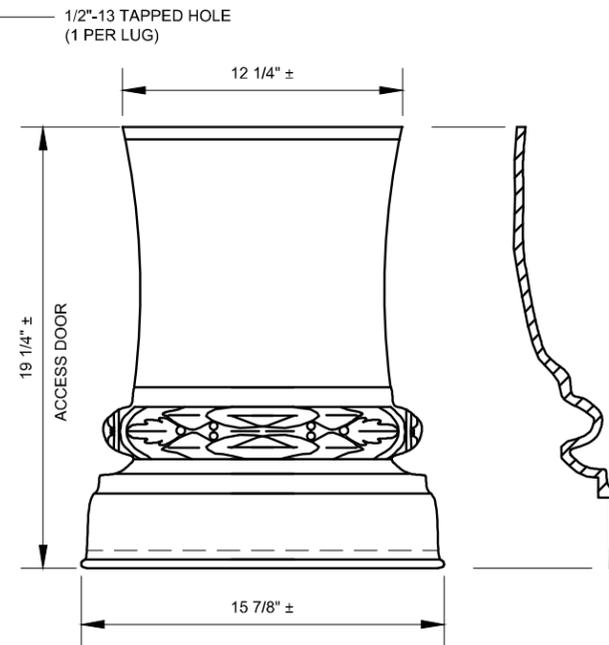
**2 PIECE WRAP BASE EXTENSION
DETAIL B**

NOTES:

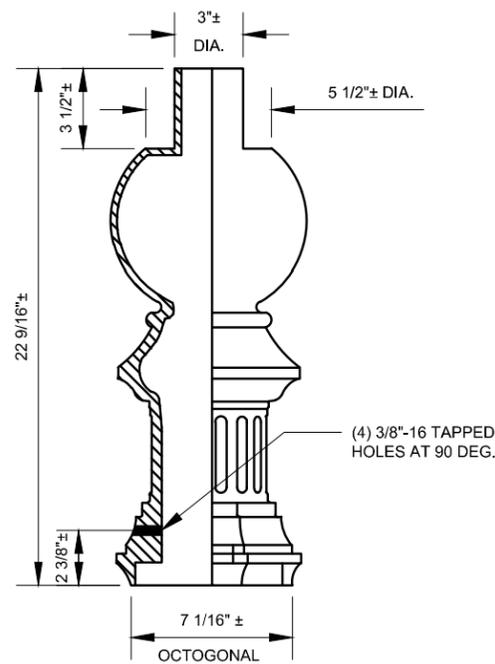
1. ALL ORNAMENTAL CASTINGS FOR THE "M-2A" SHAFT (BASE COVER, CAPITAL, TIE ROD FINAL, POLE TOP FINAL, ETC.) SHALL BE CAST IRON.
2. BASE COVER EXTENSION TO BE OMITTED ON "M-2A" POLE WITH N.Y.C. TRAFFIC CONTROLLER CABINET.



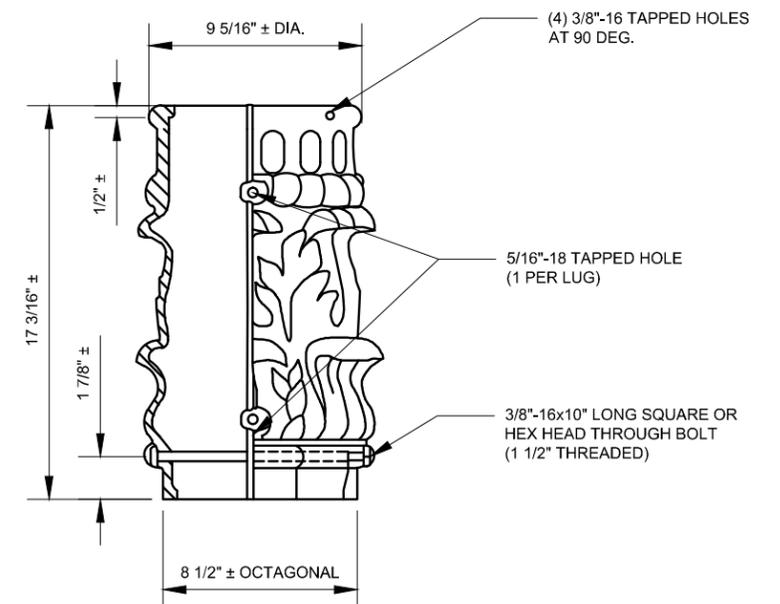
**2 PIECE WRAP BASE
DETAIL A**



ACCESS DOOR DETAIL



**BOTTOM PORTION OF POLE TOP FINIAL
DETAIL E**



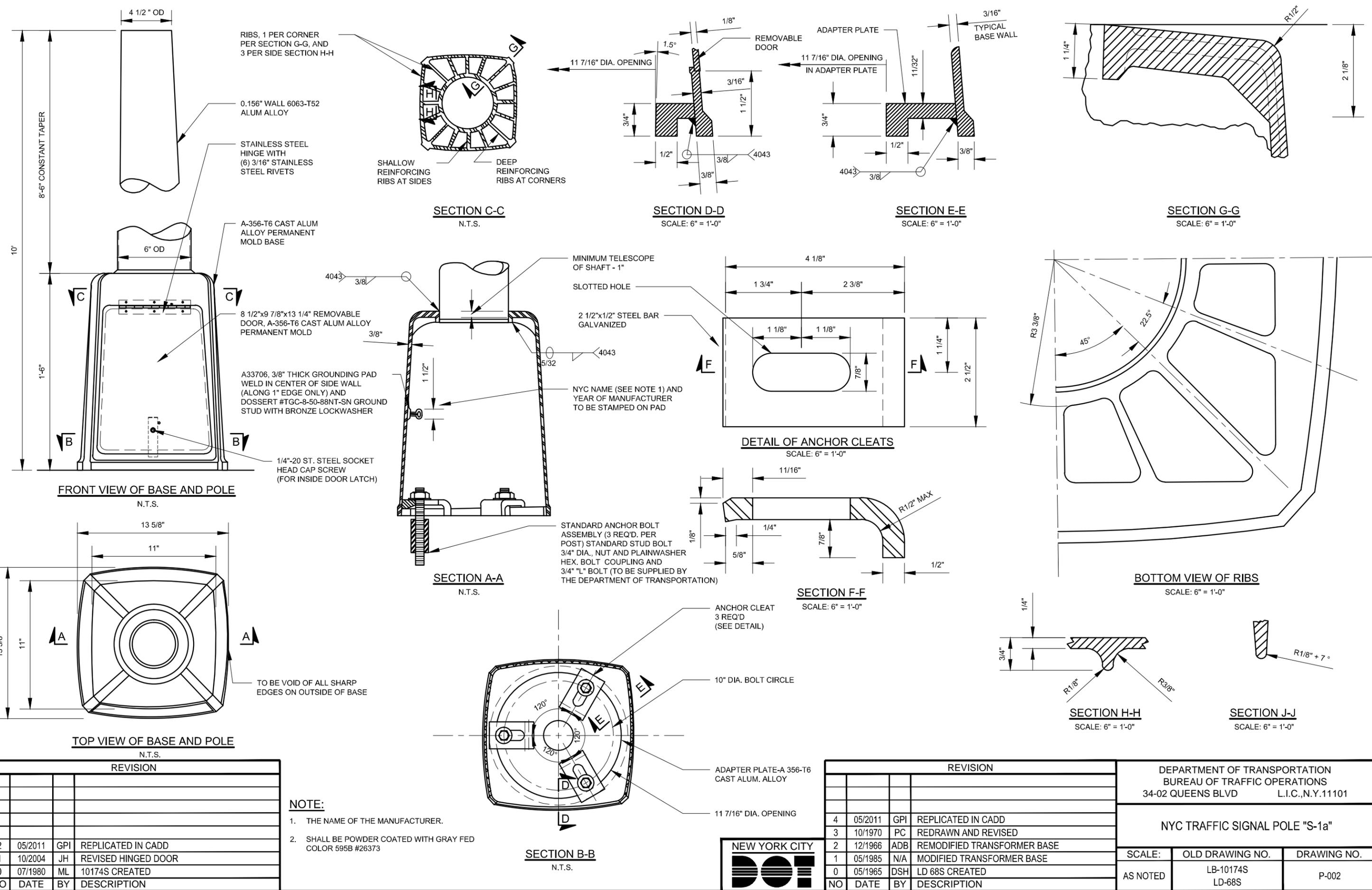
**2 PIECE WRAP AROUND CAPITAL
DETAIL C**



REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2011	GPI	REPLICATED IN CADD
0	03/1993	CH	LD-106S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
"M-2A" POLE WITH CAST IRON CASTING & 20' TRAFFIC SIGNAL MAST ARM		
SCALE: 1 1/2" = 1'-0"	OLD DRAWING NO. LD-106S	DRAWING NO. P-001_2

NYC DOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



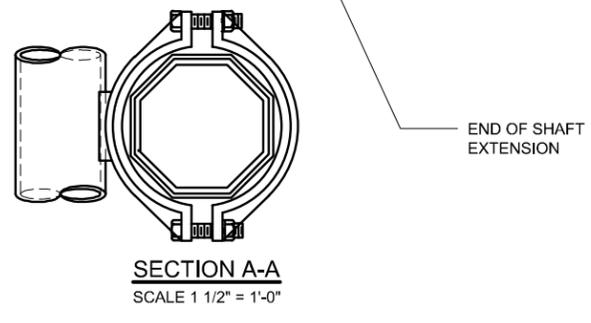
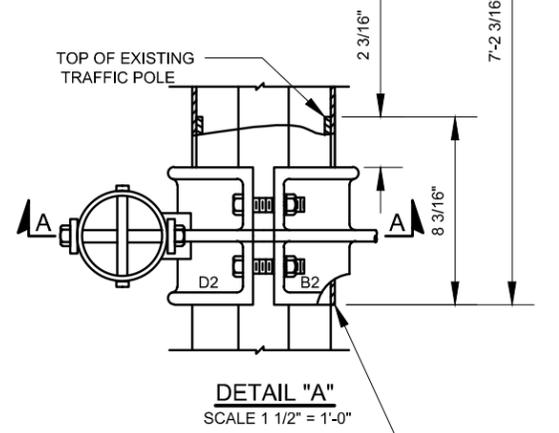
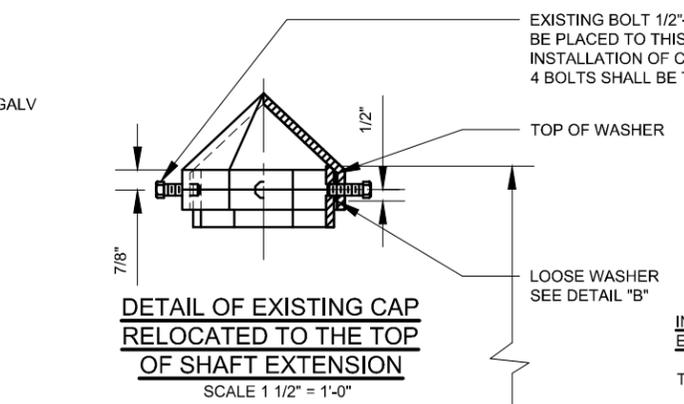
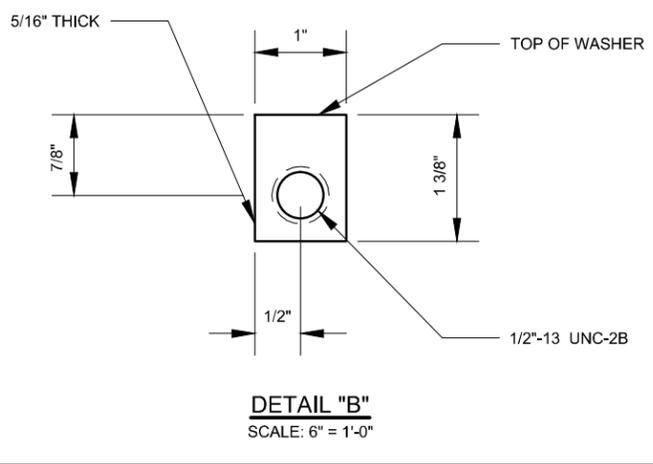
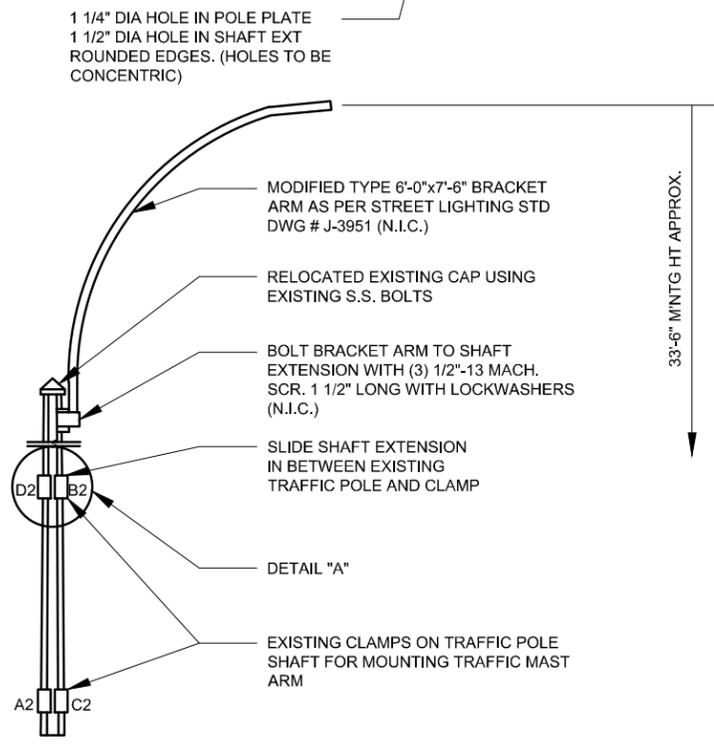
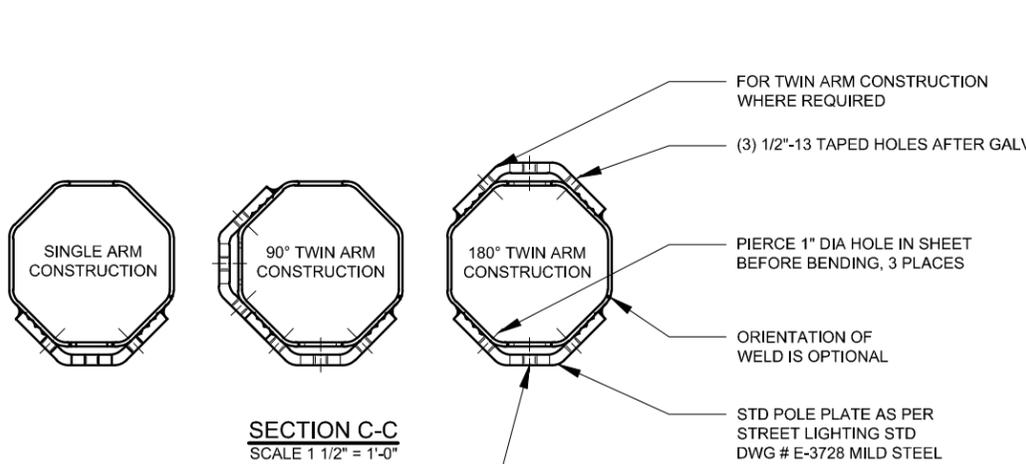
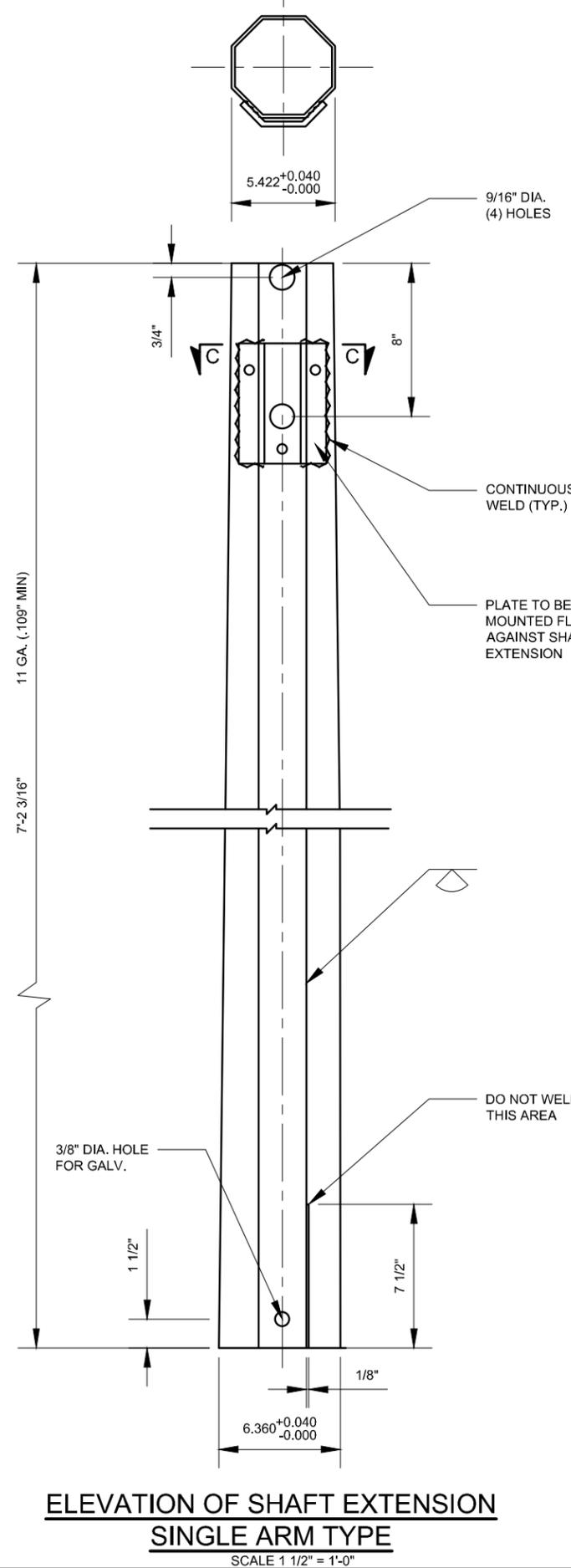
REVISION			
NO	DATE	BY	DESCRIPTION
2	05/2011	GPI	REPLICATED IN CADD
1	10/2004	JH	REVISED HINGED DOOR
0	07/1980	ML	10174S CREATED
NO			

NOTE:
 1. THE NAME OF THE MANUFACTURER.
 2. SHALL BE POWDER COATED WITH GRAY FED COLOR 595B #26373

REVISION			
NO	DATE	BY	DESCRIPTION
4	05/2011	GPI	REPLICATED IN CADD
3	10/1970	PC	REDRAWN AND REVISED
2	12/1966	ADB	REMODIFIED TRANSFORMER BASE
1	05/1985	N/A	MODIFIED TRANSFORMER BASE
0	05/1965	DSH	LD 68S CREATED
NO			

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
NYC TRAFFIC SIGNAL POLE "S-1a"		
SCALE:	OLD DRAWING NO.	DRAWING NO.
AS NOTED	LB-10174S LD-68S	P-002





INSTALLATION INSTRUCTIONS FOR SHAFT EXTENSION FOR "M-2A" POLE

THE PROCEDURE SHALL BE AS FOLLOWS:

1. PLACE SECURE TEMPORARY CLAMP UNDER TOP TRAFFIC POLE CLAMP "D2" AND "B2".
2. REMOVE "B2" HALF CLAMP FACING SIGNAL.
3. RELEASE LOAD FROM POLE BY MOVING BACK CLAMP "D2" AND CROSS ARM TOGETHER WITH TIE RODS ETC. SUFFICIENTLY TO PERMIT SHAFT EXTENSION TO SLIDE ON (USING SUFFICIENT RIGGING).
4. SLIDE SHAFT EXTENSION IN PLACE AND DRIVE DOWN TO TOP OF TEMPORARY CLAMP.
5. RELAX BACK CLAMP "D2" AND CROSS ARM TOGETHER WITH TIE RODS ETC. TO ORIGINAL POSITION.
6. REPLACE HALF CLAMP "B2" FACING SIGNAL AND TIGHTEN BOLTS SECURELY MAKING SURE SHAFT EXTENSION IS SQUEEZED TIGHT AGAINST.
7. REMOVE TEMPORARY CLAMP UNDER "D2" AND "B2" AND ALL OTHER RIGGING.

IN NO WAY SHALL THIS TRAFFIC POLE BE DISTURBED EXCEPT AS SPECIFIED ABOVE.

NOTES:

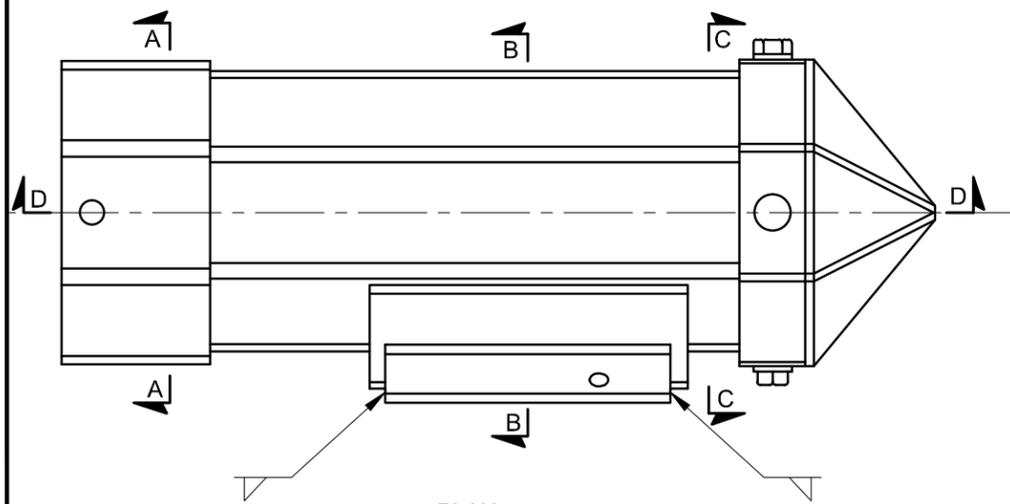
1. MAT'L OF SHAFT EXTENSION: LOW ALLOY HIGH STRENGTH STEEL, CORTEN, NAX, MAYARI, OR EQUAL.
2. HARDWARE: FURNISH 4 WASHERS (DETAIL "B") WITH EACH SHAFT EXTENSION, MAT'L: AL-6061 OR AL-1100.
3. FINISH: SHAFT EXTENSION AND POLE PLATE ASSEMBLY TO BE HOT-DIPPED GALV. AFTER FABRICATION.
4. NO HARDWARE OTHER THAN THE 4 WASHERS IS REQUIRED WITH EACH SHAFT EXTENSION.
5. N.I.C.: NOT IN CONTRACT. I.E. NOT FURNISHED WITH SHAFT EXTENSION.
6. FOR ALTERNATIVE TO DETAIL "A", SEE DWG J-5255.
7. FOR 15 1/2" SHAFT EXTENSION SEE DWG P-004.



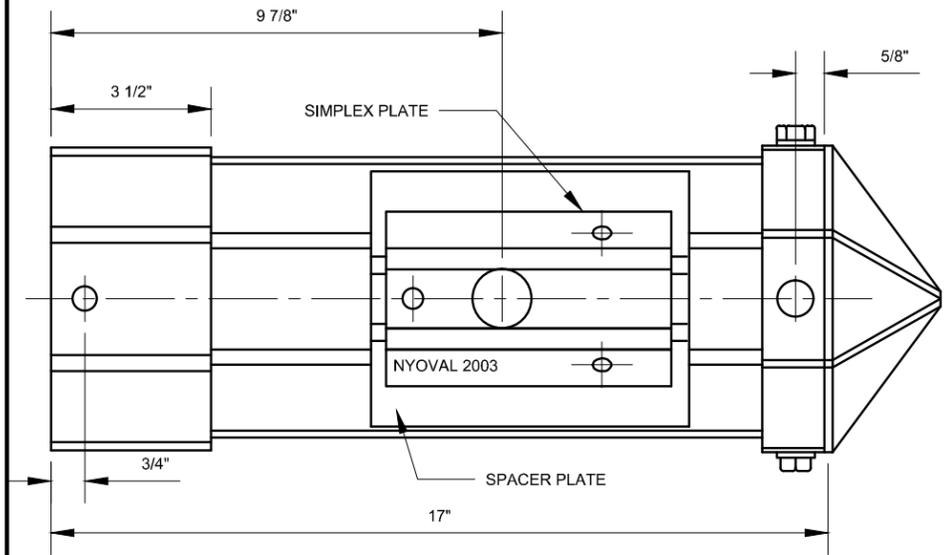
REVISION			
NO	DATE	BY	DESCRIPTION
2	05/2011	GPI	REPLICATED IN CADD
1	11/2006	NJ	REDRAWN FROM BUR. G&E. DWG. H-5159
0	03/1973	CP	14347S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
7' SHAFT EXTENSION FOR "M-2A" POLE, SINGLE & TWIN TYPES		
SCALE:	OLD DRAWING NO.	DRAWING NO.
AS NOTED	LB-14347S	P-003

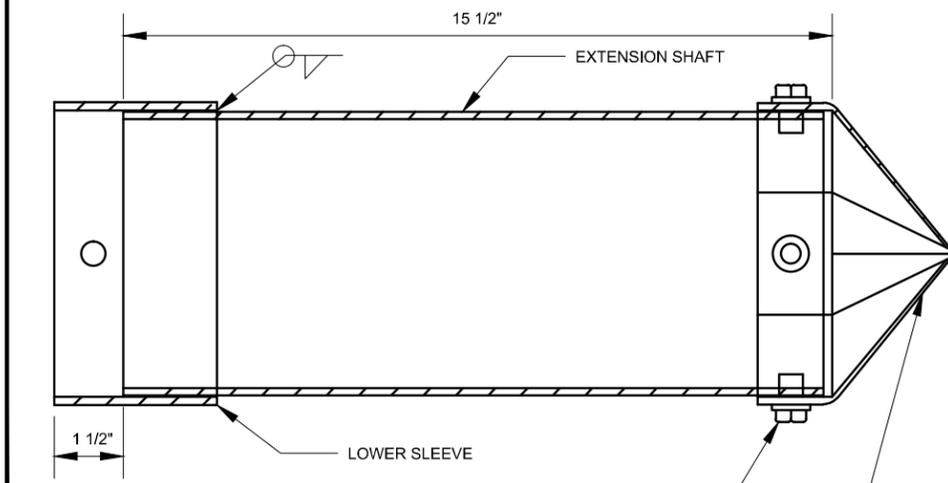
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



PLAN

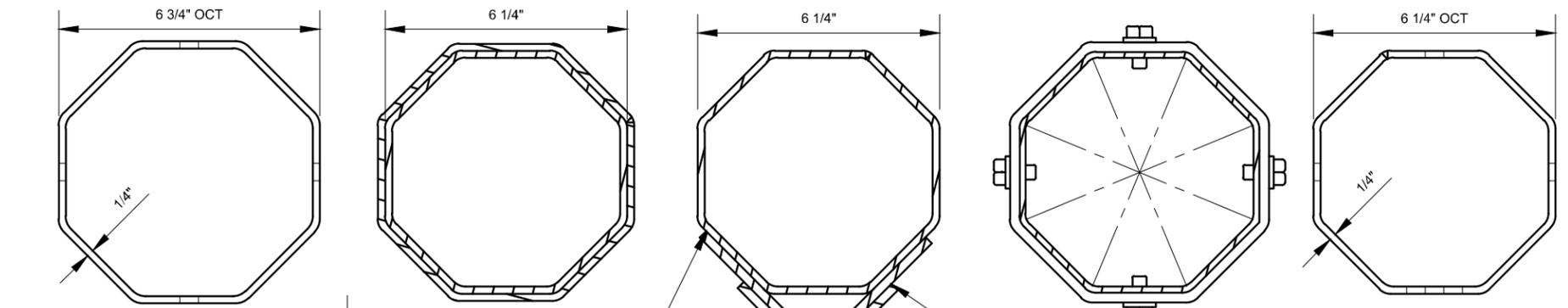


ELEVATION



SECTION D-D

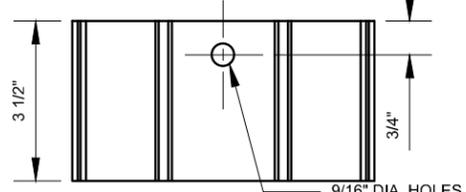
(4) 1/2"-13 UNC x 1" LONG HEX. HEAD STAINLESS STEEL BOLT AND LOCK WASHER



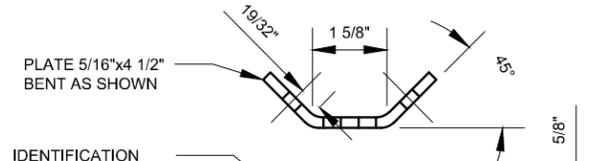
SECTION A-A

SECTION B-B

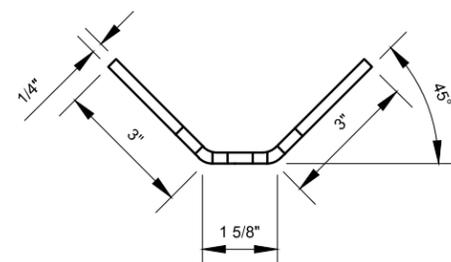
SECTION C-C



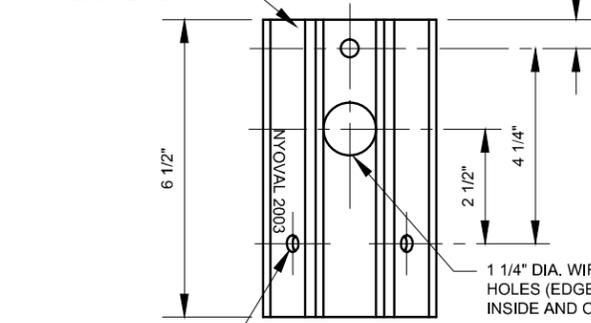
LOWER SLEEVE



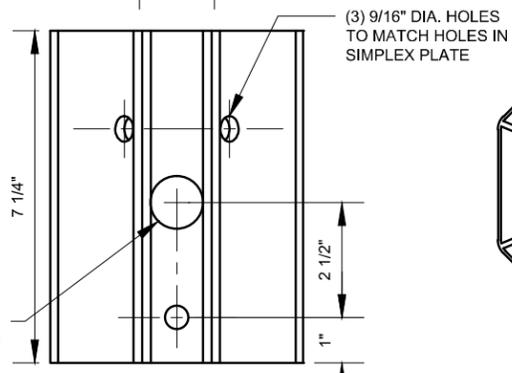
SIMPLEX PLATE



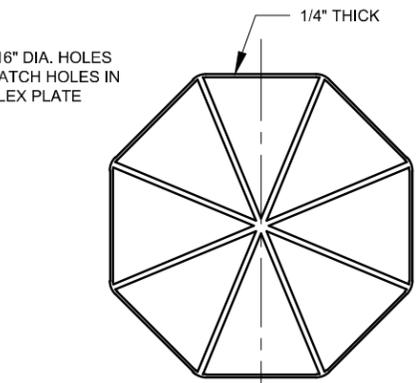
SPACER PLATE



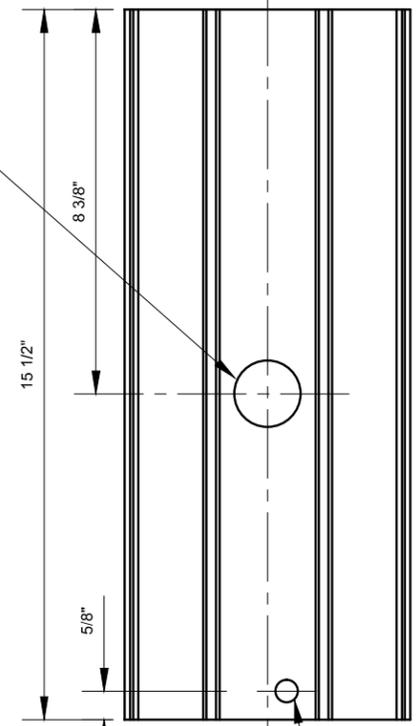
1/2"-13 UNC TAPPED HOLES (4 REQ'D)



(3) 9/16" DIA. HOLES TO MATCH HOLES IN SIMPLEX PLATE



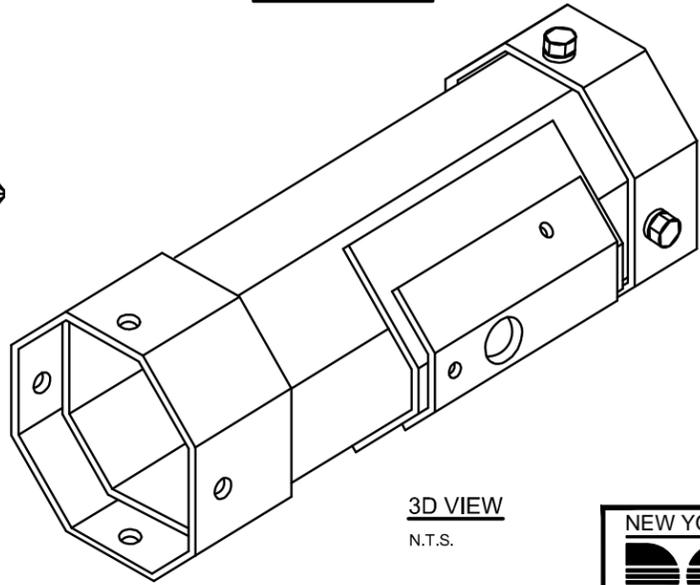
CAP



EXTENSION SHAFT

NOTES:

- MAT'L STEEL ASTM A36.
- SHAFT EXTENSION TO BE HOT DIPPED GALVANIZED AFTER FABRICATION TO ASTM A123.
- FOR 7' EXTENSION SEE DWG P-003.

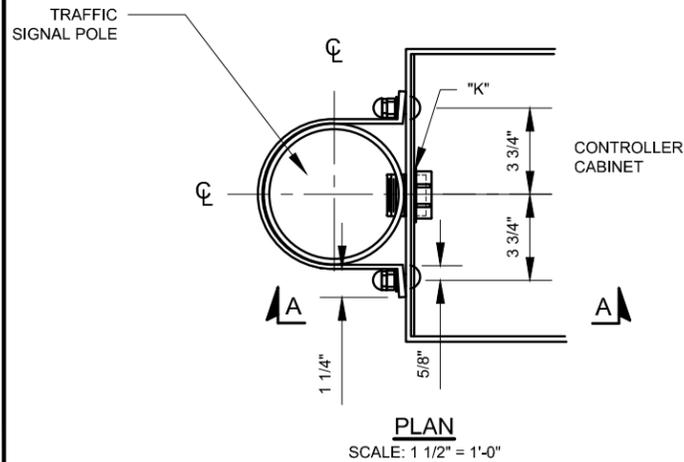


3D VIEW
N.T.S.



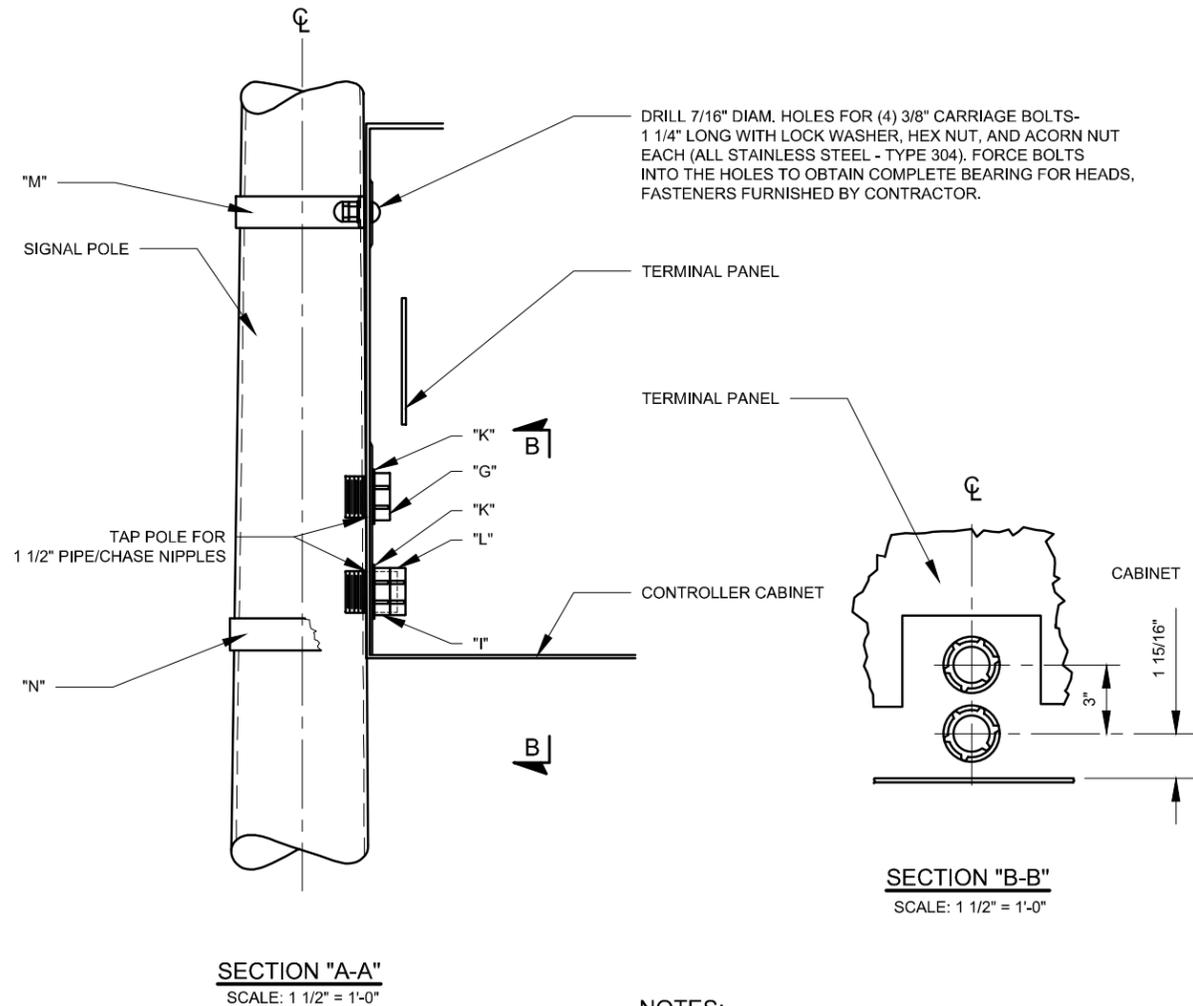
REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2011	GPI	REPLICATED IN CADD
0	11/2006	NJ	LC-524S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
15-1/2" SHAFT EXTENSION FOR "M-2A" POLE		
SCALE:	OLD DRAWING NO.	DRAWING NO.
3" = 1'-0"	LC-524S	P-004



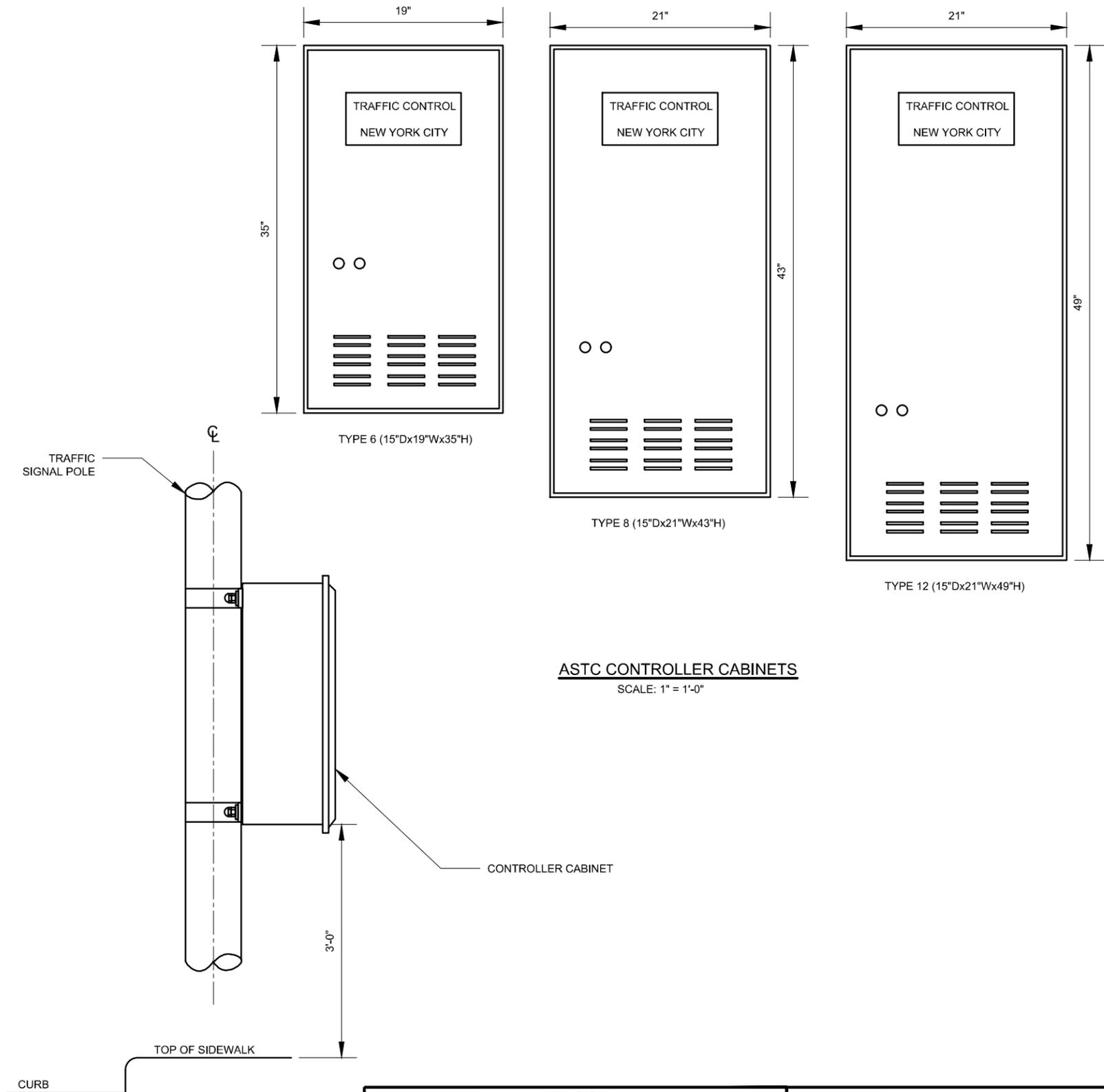
**PARTS LEGEND - (ALL ALUMINUM)
(FURNISHED BY CONTRACTOR)**

- "G" - 1 1/2" CHASE NIPPLE (DWG SE-009)
- "H" - 1 1/2" X 1 1/2" LG PIPE NIPPLE (DWG SE-012)
- "I" - 1 1/2" PIPE LOCKNUT (DWG SE-010)
- "K" - NEOPRENE SEAL GASKET (SEE NOTE 4)
- "L" - INSULATED THROAT BUSHING
- "M" - TOP MOUNTING BAND (DWG P-006 OR P-007)
- "N" - BOTTOM MOUNTING BAND (DWG P-006 OR P-007)



NOTES:

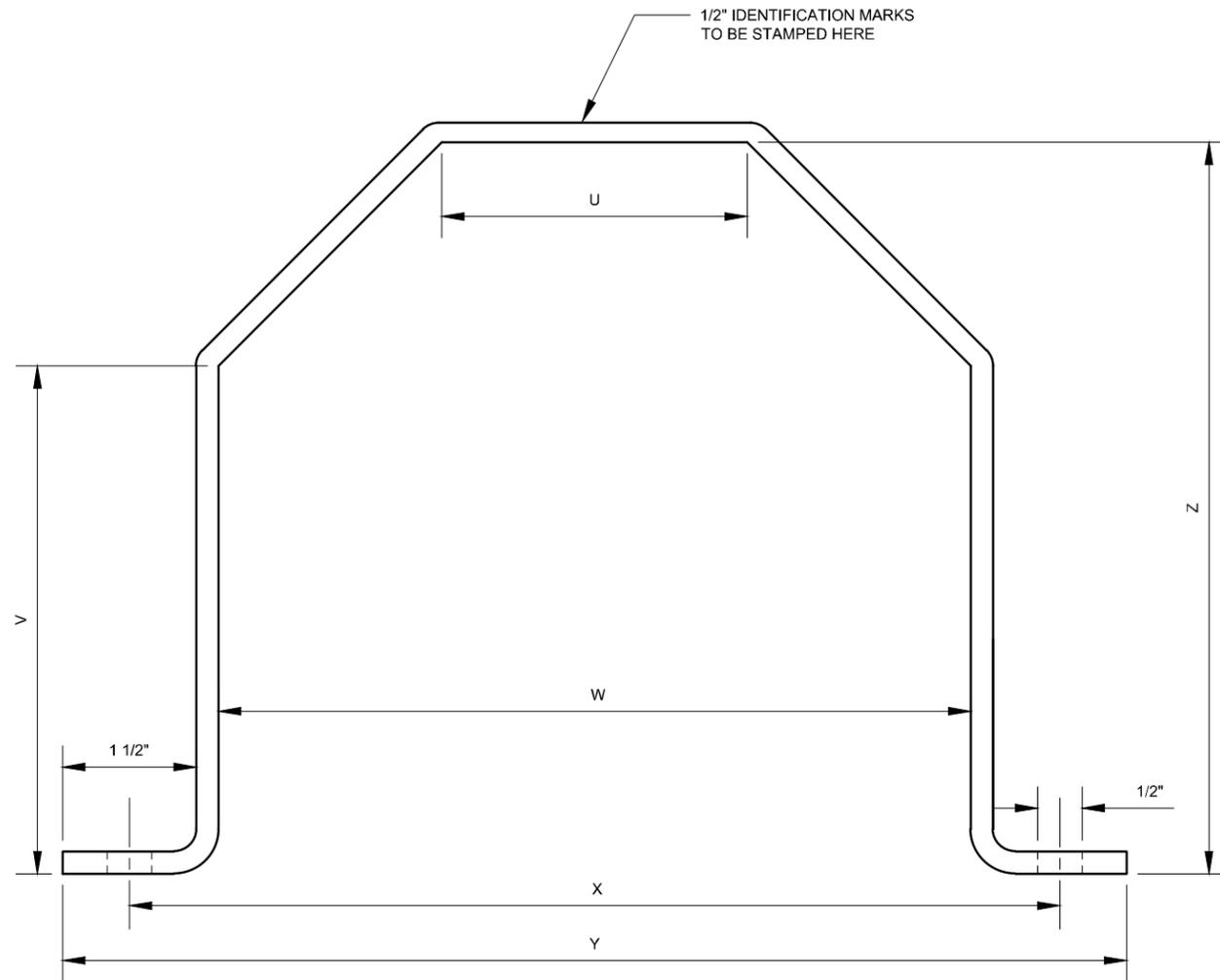
1. ALL PIPE THREADING TO BE STRAIGHT MACHINE THREADING - 11 1/2 THREADS PER INCH (CLASS 2 FIT)
2. ROUND BOTH INSIDE EDGES OF AL PIPE NIPPLES AND CHASE NIPPLE.
3. CONNECTION STRAPS TO BE 1 1/2"x1/4" OF ALUMINUM ALLOY 6063-T52.
4. NEOPRENE SEAL GASKET SHALL BE 2 1/2" O.D. x 2" I.D. x 1/8" THICK.



REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2011	GPI	REPLICATED IN CADD
0	03/2007	JH	LB12395S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
MOUNTING ASTC CABINET ON TRAFFIC SIGNAL POLE		
SCALE: AS NOTED	OLD DRAWING NO. LB-12395S LG-49-S	DRAWING NO. P-005





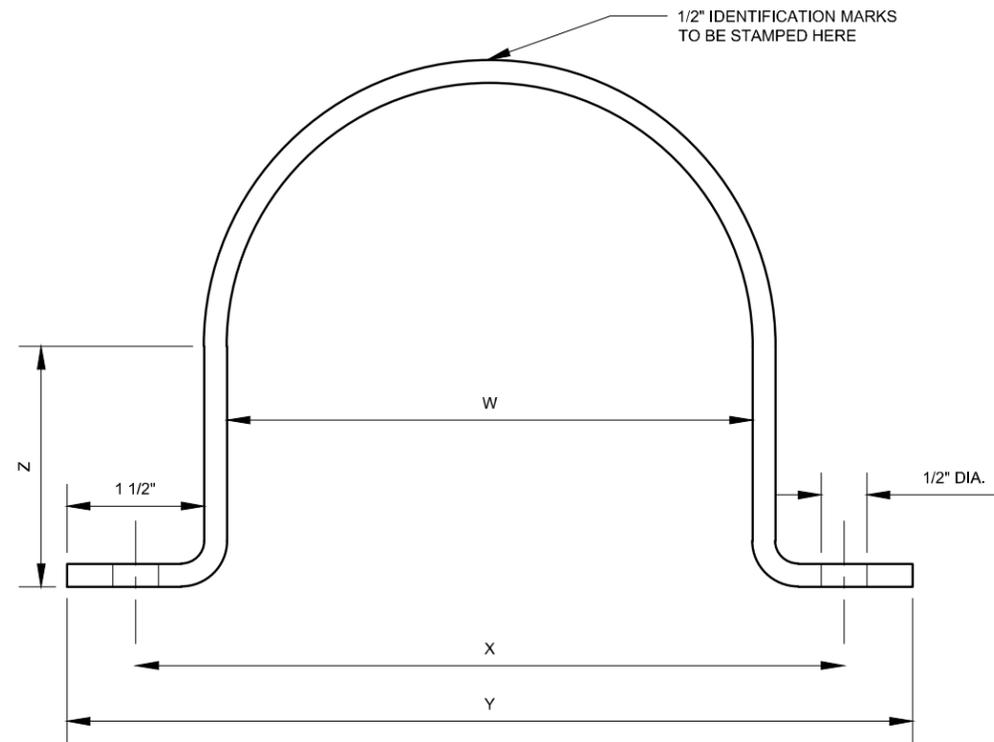
M BAND TYPE	U	V	W	X	Y	Z
A	3 1/2"	5 11/16"	8 7/16"	10 7/16"	11 15/16"	8 3/16"
B	3 3/8"	5 1/2"	8 1/8"	10 1/8"	11 5/8"	7 7/8"
C	3 1/4"	5"	7 7/8"	9 7/8"	11 3/8"	7 5/16"
D	3 1/8"	4 15/16"	7 1/2"	9 1/2"	11"	7 1/8"
X (SEE NOTE 3)	2 11/16"	4 3/8"	6 1/2"	8 1/2"	10"	6 1/4"

NOTES:

1. ALL BANDS TO BE FABRICATED FROM 1 1/2"x1/4" TYPE 6063-T52 ALUMINUM ALLOY
2. ALL DIMENSIONS ± 1/16"
3. BAND FOR MOTOROLA BOX



REVISION				DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
5	06/2011	GPI	REPLICATED IN CADD	CONTROLLER CABINET MOUNTING BANDS FOR "M-2A" POLE		
4	02/1976	N/A	LB-1364-S			
3	02/1976	N/A	LB-1363-S			
2	03/1976	N/A	LB-1362-S			
1	02/1976	N/A	LB-1361-S			
0	02/1976	GS	LB-1360-S	SCALE: 6" = 1'-0"	OLD DRAWING NO. LB-1360-S, LB-1361-S, LB-1362-S, LB-1363-S, LB-1366-S	DRAWING NO. P-006
NO	DATE	BY	DESCRIPTION			



S BAND TYPE	W	X	Y	Z
A	5 3/4"	7 3/4"	9 1/4"	2 5/8"
B	5 7/16"	7 7/16"	8 15/16"	2 1/2"
C	5 1/8"	7 1/8"	8 5/8"	2 5/16"
D	5"	7"	8 1/2"	2 1/4"

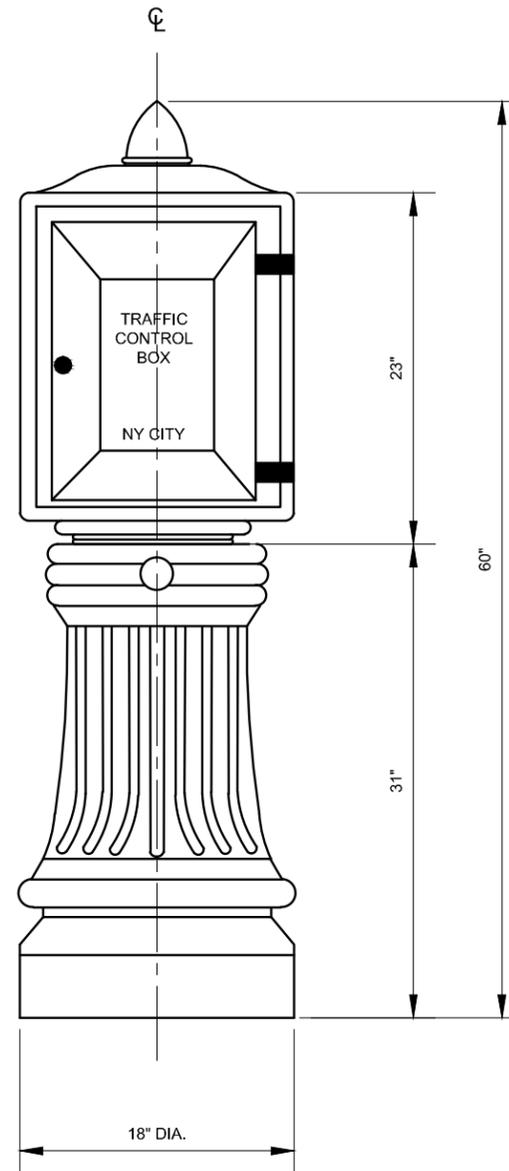
NOTES:

- ALL BANDS TO BE FABRICATED FROM 1 1/2"x1/4" TYPE 6063-T52 ALUMINUM ALLOY
- ALL DIMENSIONS ± 1/16"



REVISION			
NO	DATE	BY	DESCRIPTION
3	06/2011	GPI	REPLICATED IN CADD
1	02/1976	N/A	LB-1366-S
0	02/1976	JV	LB-1365-S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
CONTROLLER CABINET MOUNTING BANDS FOR "S-1a" POLE		
SCALE: 6" = 1'-0"	OLD DRAWING NO. LB-1365-S LB-1366-S	DRAWING NO. P-007

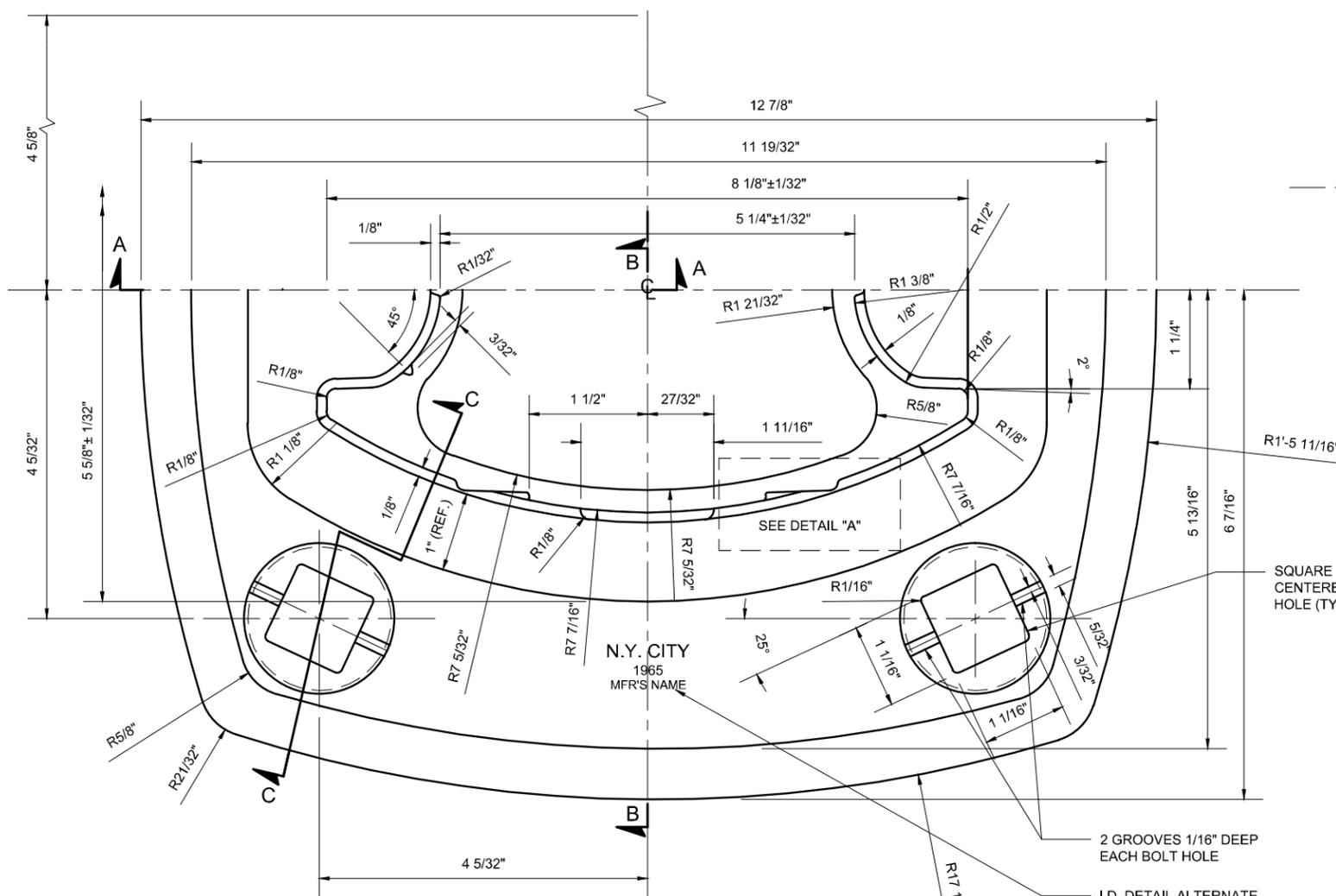


FOR REMOVAL ONLY



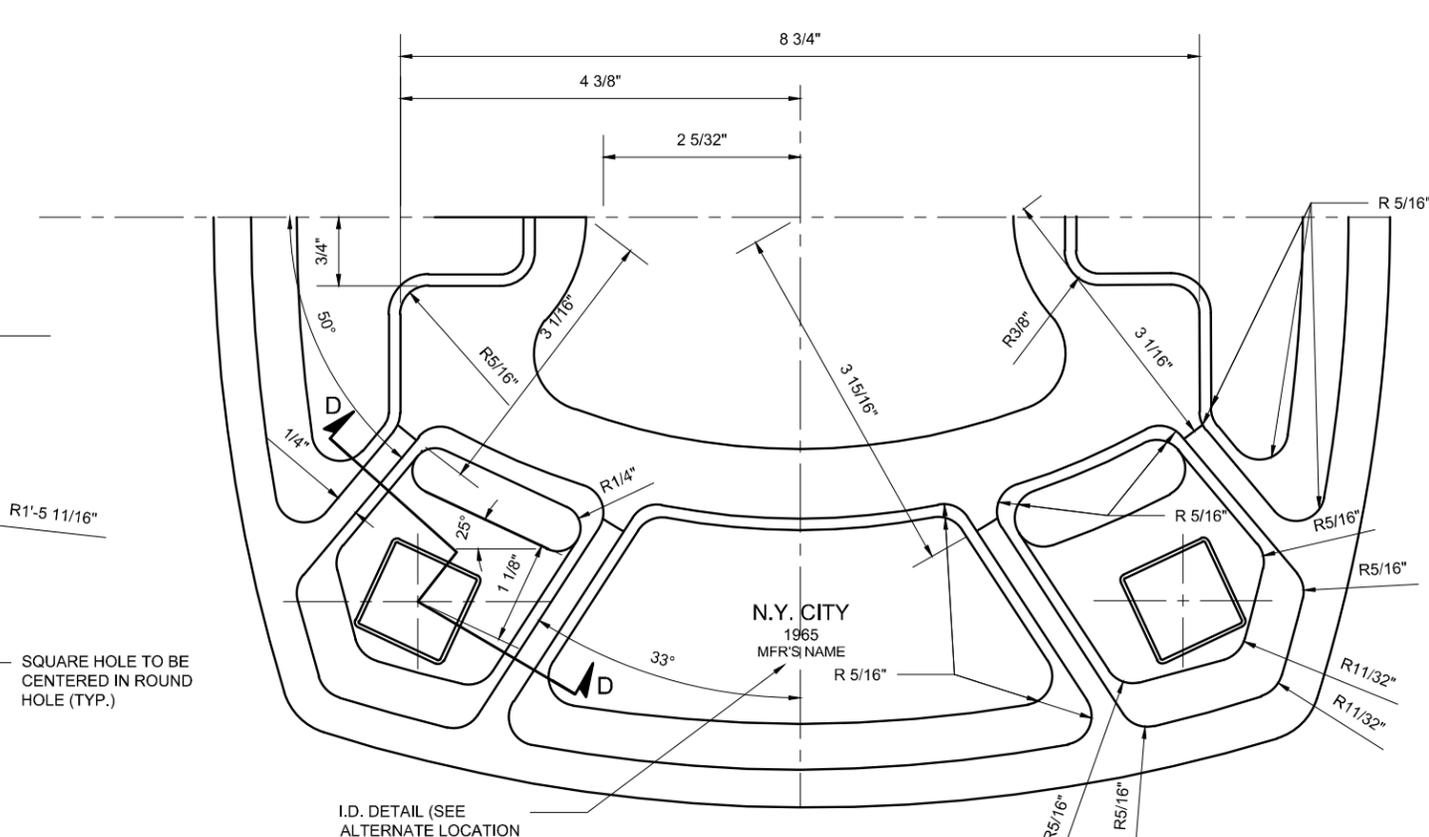
REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2011	GPI	REPLICATED IN CADD
0	06/1953	JWS	LG22-S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
TYPE "B" MODIFIED POLE		
SCALE: 1 1/2" = 1'-0"	OLD DRAWING NO. LG-22S	DRAWING NO. P-008



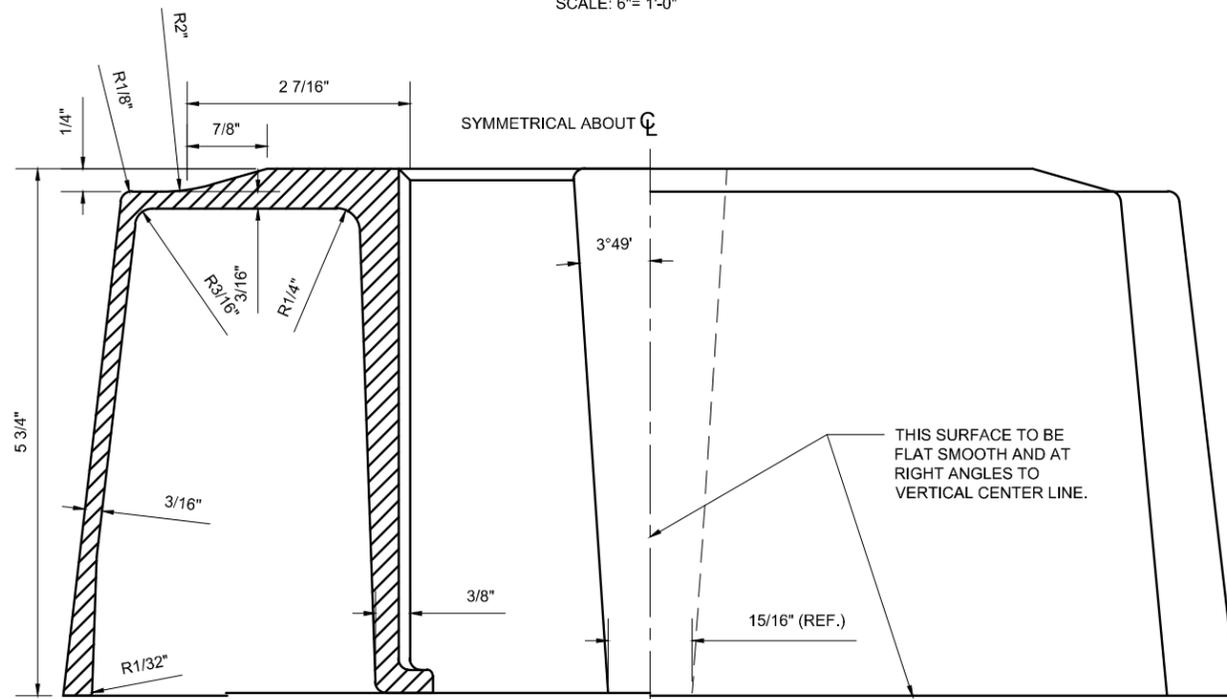
PLAN VIEW OF SHOE BASE

SCALE: 6" = 1'-0"



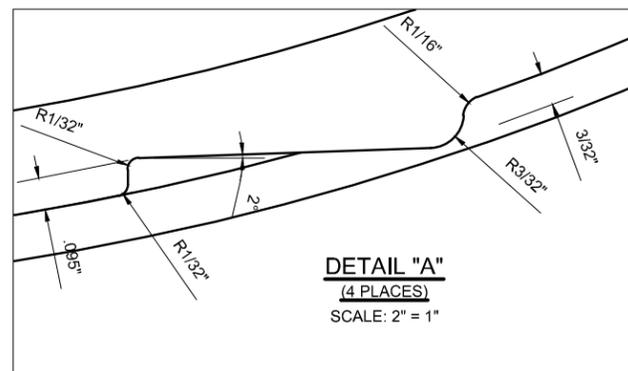
BOTTOM VIEW OF SHOE BASE

SCALE: 6" = 1'-0"



SECTION A-A

SCALE: 6" = 1'-0"



DETAIL "A"

(4 PLACES)

SCALE: 2" = 1"

NOTES:

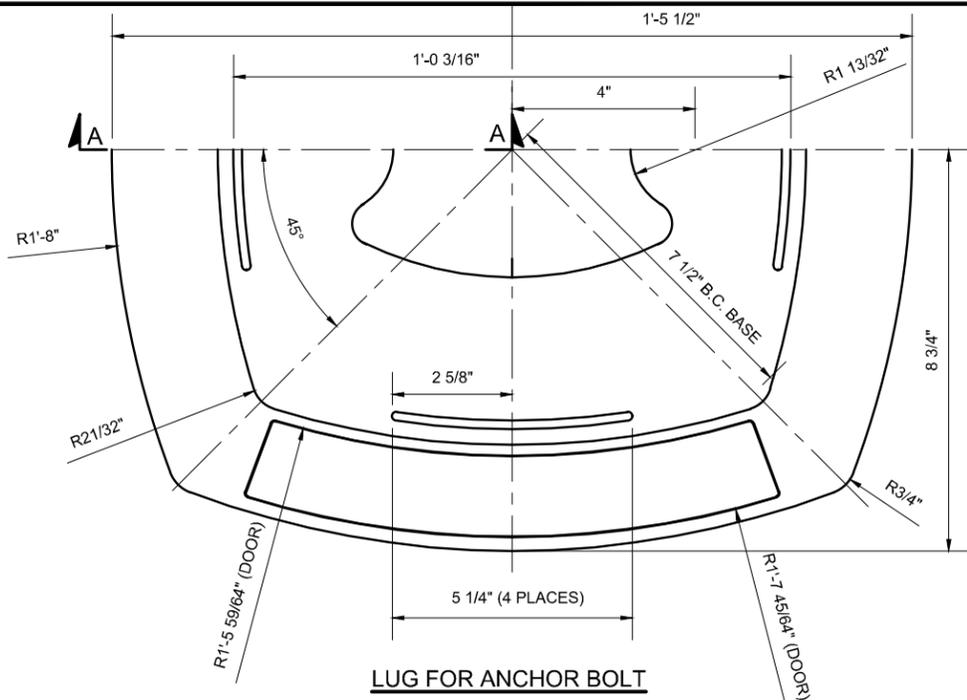
1. ALL UNMARKED DRAFT TO BE 2 DEG. MATERIAL-ALUMINUM ALLOY A-356-T6 SEMI-PERMANENT OR PERMANENT MOLD CASTING. FINISH AS CAST. TOLERANCE UNLESS OTHERWISE SPECIFIED TO BE ±1/32." (4) 1"-8 H.D. GALV. STEEL BOLT ASS'YS. SHALL BE FURNISHED WITH EACH SHOE BASE: BOLT DESIGN AS SHOWN IN DETAIL.
2. SEE P-009_1, P-009_2, AND P-009_3, FOR IDENTIFICATION DETAILS AND LOCATION NOTE.
3. SEE DRAWING P-009_3 FOR SECTION "B-B," "C-C," "D-D," & BOLT DETAIL

FOR REMOVAL ONLY

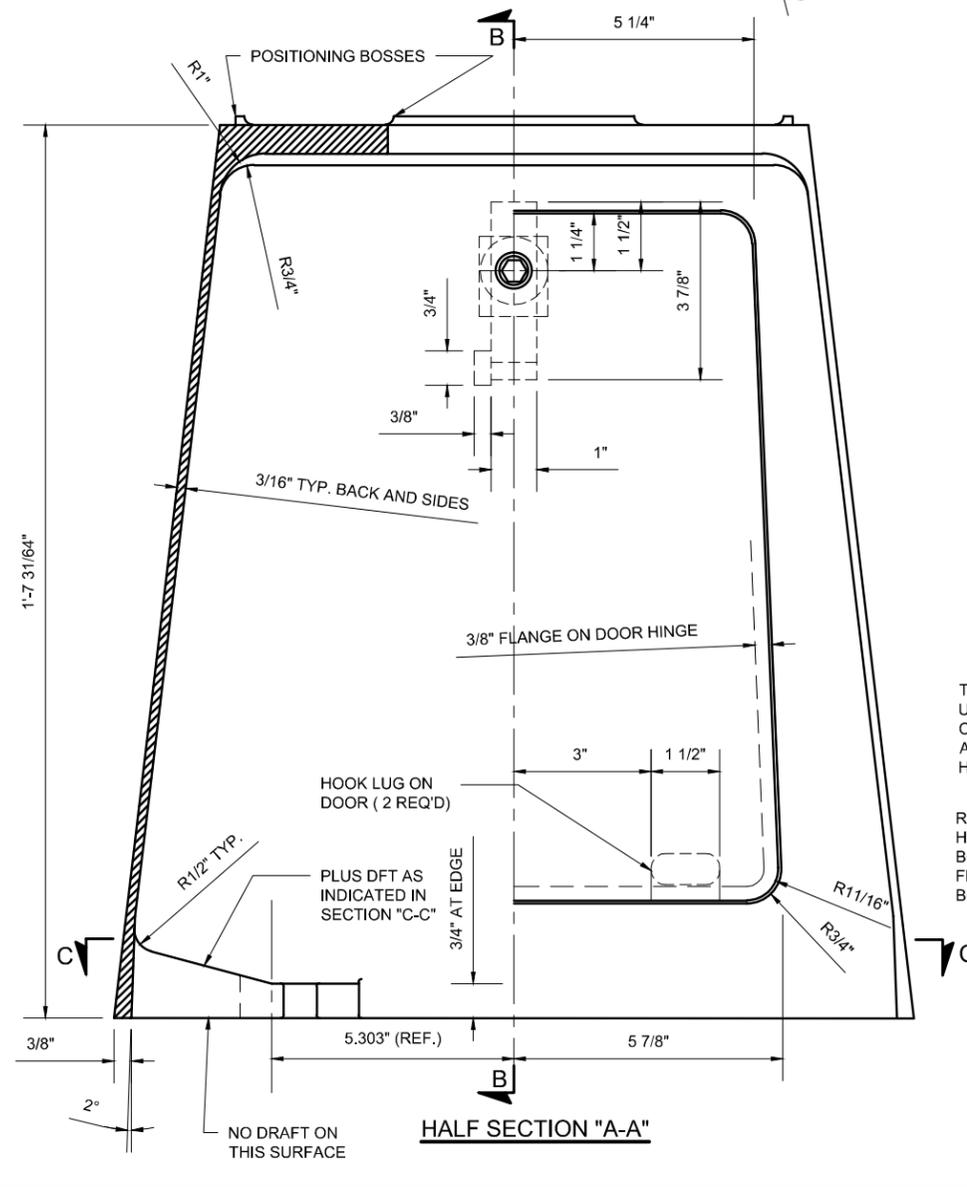


REVISION			
NO	DATE	BY	DESCRIPTION
3	05/2011	GPI	REPLICATED IN CADD
2	10/1964	N/A	H-5010(10) REVISION
1	07/1963	N/A	H-5010(10) REVISION
0	05/1963	RP	H-5010(10) CREATED

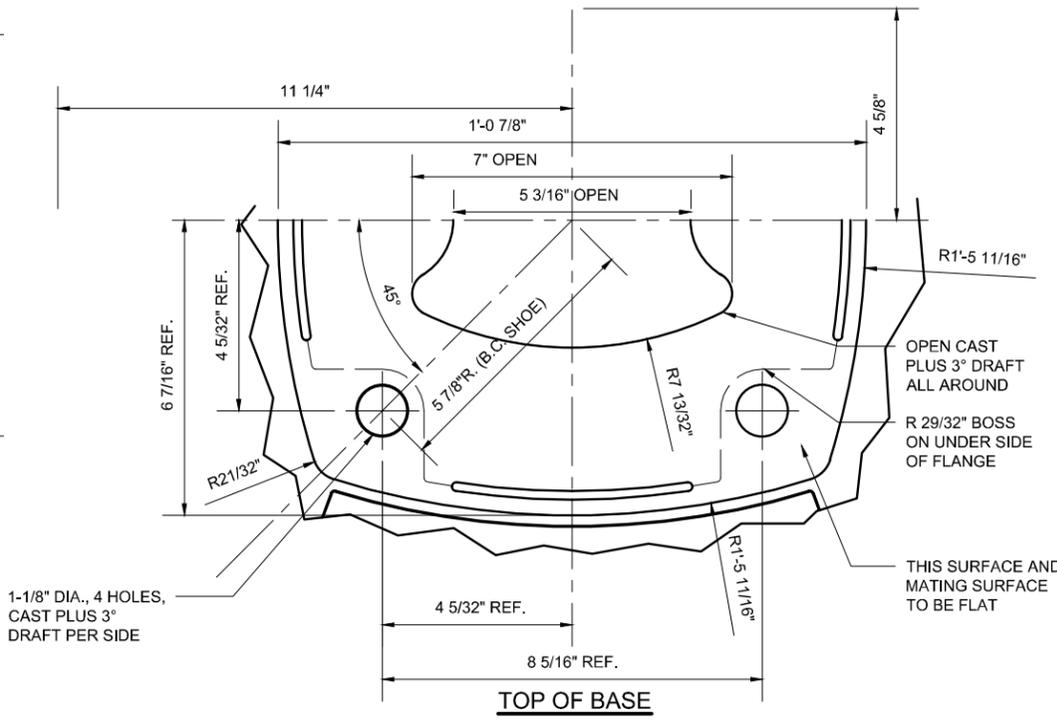
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
SHOE BASE FOR TYPE 10 LAMP POLE		
SCALE: AS NOTED	OLD DRAWING NO. H-5010(10)	DRAWING NO. P-009_1



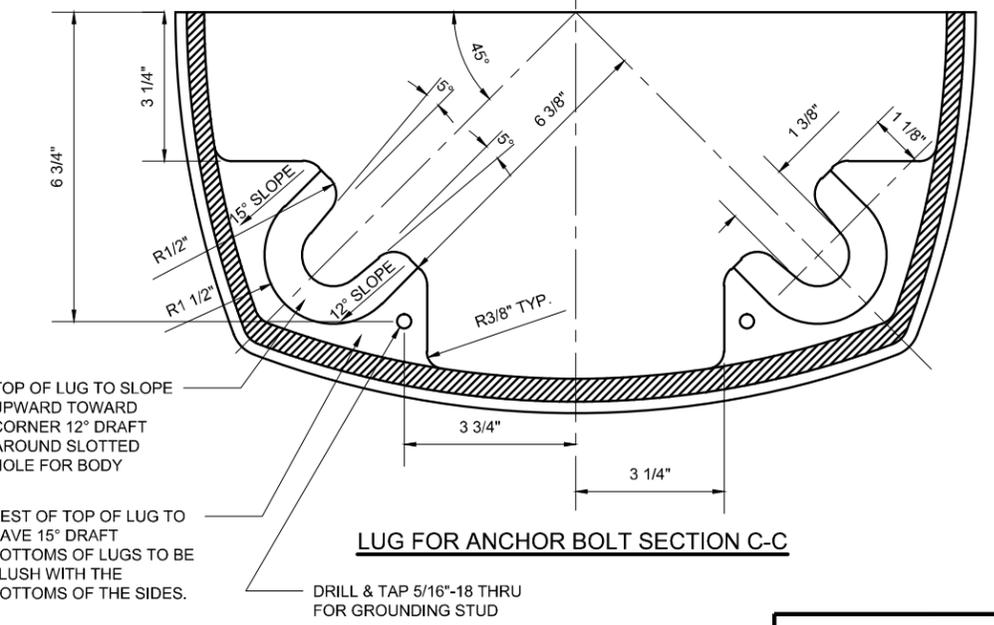
LUG FOR ANCHOR BOLT



HALF SECTION "A-A"

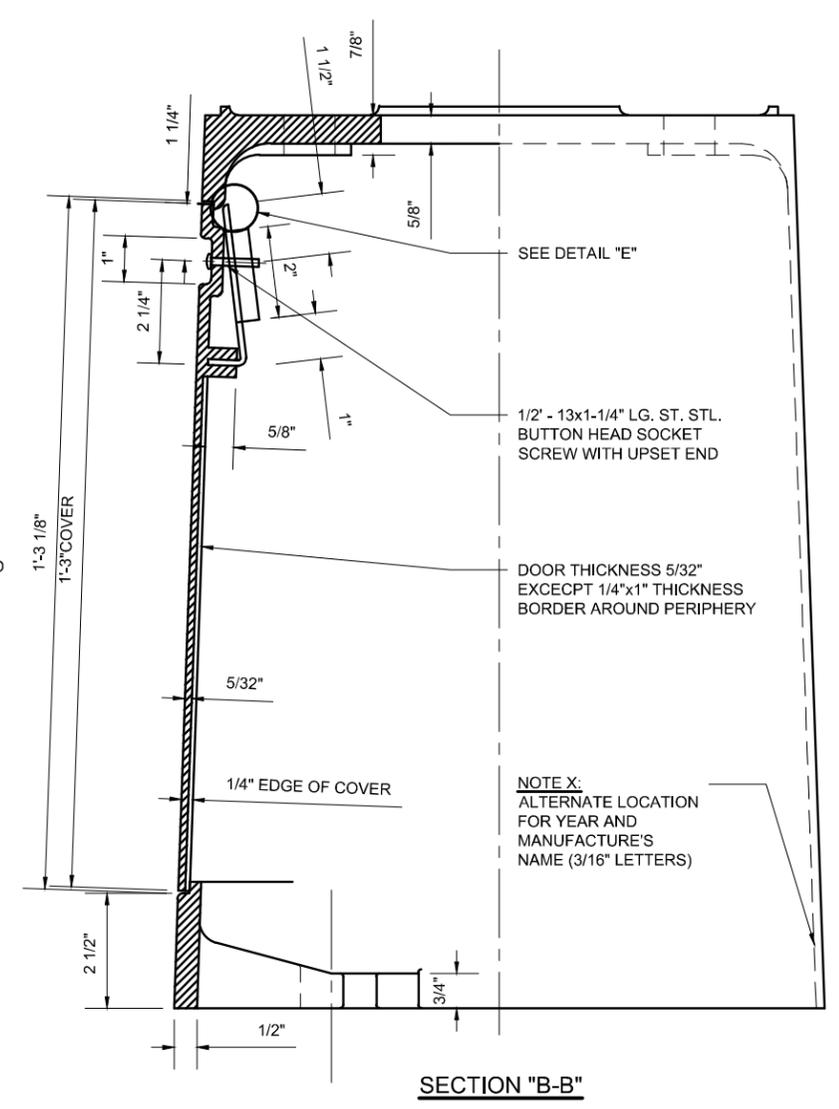


TOP OF BASE



LUG FOR ANCHOR BOLT SECTION C-C

FOR REMOVAL ONLY



SECTION "B-B"

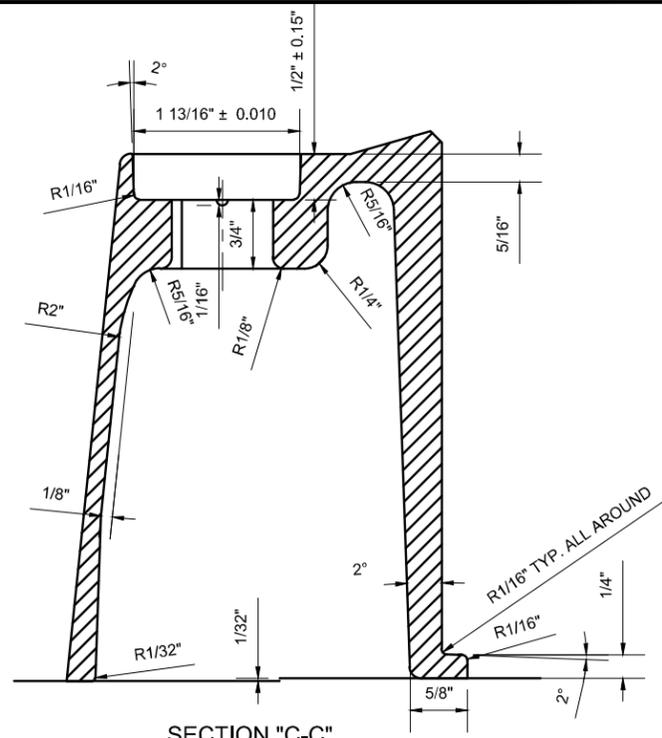
NOTES:

1. SEE DRAWING P-009_3 FOR SECTION DETAIL "E", SHIM DETAIL, SECTION THRU POSITIONING BOSS, SECTION AND BEVELED WASHER AND IDENTIFICATION DETAIL.
2. MATERIAL: ALUMINUM ALLOY #A-356-T6.
3. PERMANENT MOLD CASTING.
4. FINISH AS CAST.
5. ALL DRAFT ANGLES TO PARTING LINE TO BE 3 DEG.
6. TOLERANCES ON DIMENSIONS TO BE ±1/32", UNLESS OTHERWISE SPECIFIED.
7. FURNISH (4) BEVELED WASHERS WITH EACH TRANSFORMER BASE. WASHERS TO BE SHAPED TO FIT SLOPE OF INTERNAL LUGS.



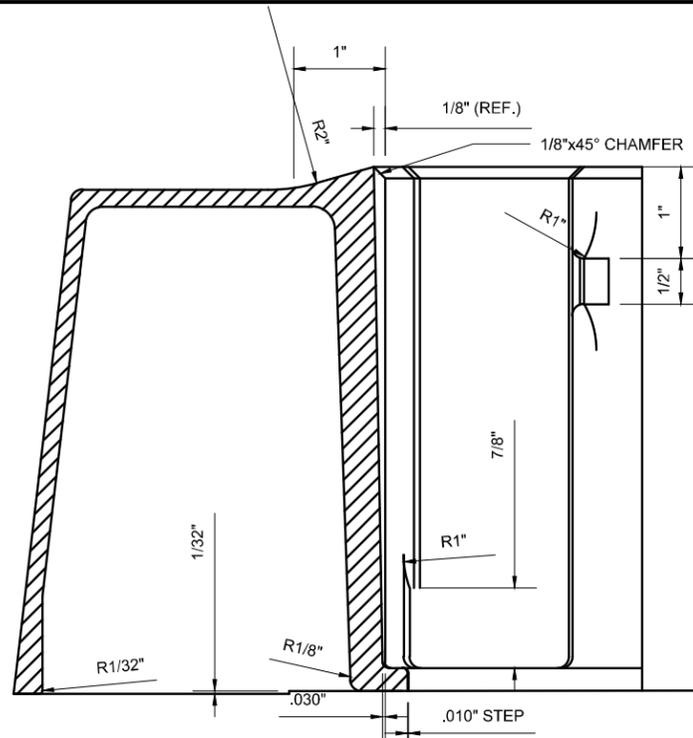
REVISION			
NO	DATE	BY	DESCRIPTION
6	05/2011	GPI	REPLICATED IN CADD
5	07/1974	N/A	H-5010(11A) REVISION
4	01/1973	N/A	CLARIFIED BOLT LUG & SECTION B-B
3	04/1968	N/A	CHANGED LATCH
2	03/1965	N/A	CHANGED DOOR RADII & PAD DIMENSION
1	01/1965	N/A	(4) 1 1/8" DIA HOLES WERE 1 1/16" DIA
0	07/1964	JSB	H-5010(11A) CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
TRANSFORMER BASE FOR TYPE 10 LAMP POLE		
SCALE:	OLD DRAWING NO.	DRAWING NO.
3" = 1'-0"	H-5010(11A)	P-009_2



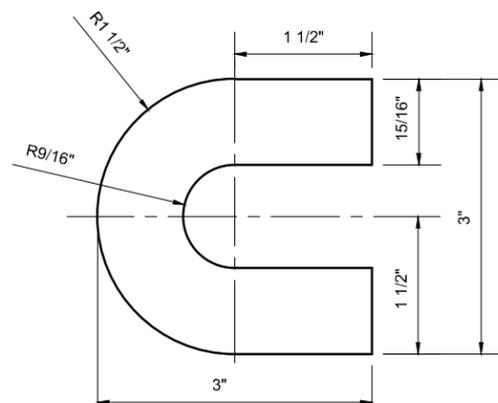
SECTION "C-C"

SCALE: 6" = 1'-0"
SEE DWG P-009_1 FOR NOTES



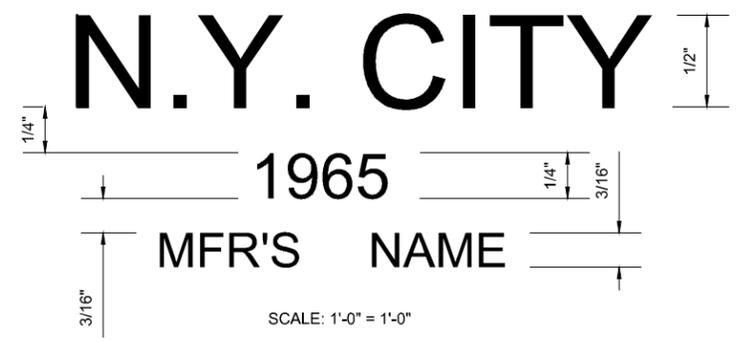
SECTION B-B

SCALE: 6" = 1'-0"
SEE DWG P-009_1 FOR NOTES



SHIM DETAIL

SCALE: 6" = 1'-0"
MAT'L: HOT DIP GALV. STL. (2)
1/8" THK. & (2) 1/16" THK.
FURN. PER BASE
SEE DWG P-009_2 ADDITIONAL
FOR NOTES

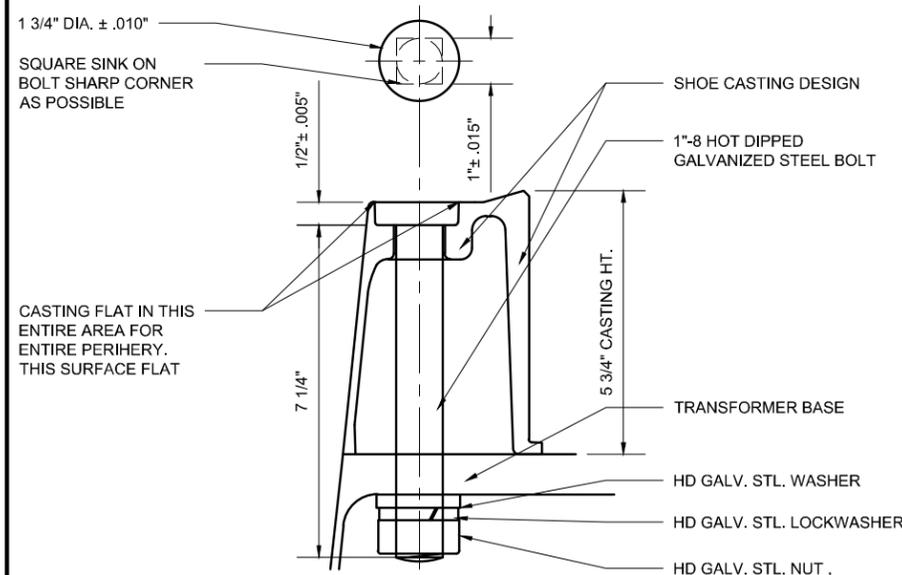


IDENTIFICATION DETAILS

LOCATED ON SIDE OPPOSITE FROM
DOOR, 1/2" BELOW TOP EDGE.

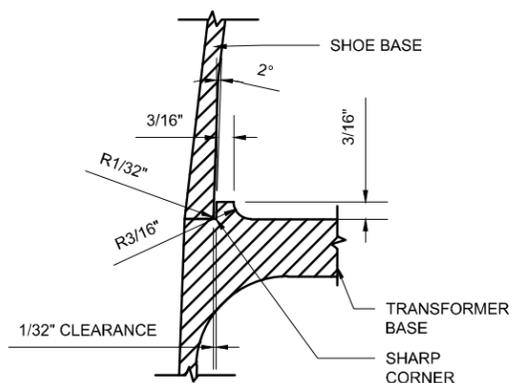
ON THE SHOE BASE, THE
IDENTIFICATION DETAILS SHALL BE
LOCATED AS SHOWN ON SHEET 10
OF 12 PARALLEL TO MAJOR AXIS OF
SHAFT BETWEEN BOLT HOLES

SEE NOTE X ON DRAWING P-009_2
AT SECTION "B-B" FOR ALTERNATE
LOCATION



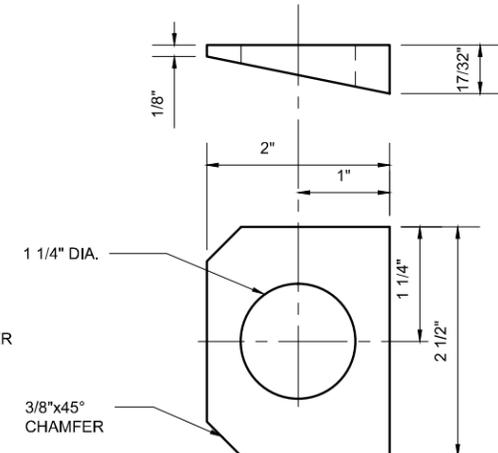
BOLT DETAIL SHOWN IN PLACE

SCALE: 3" = 1'-0"
SEE DWG P-009_1



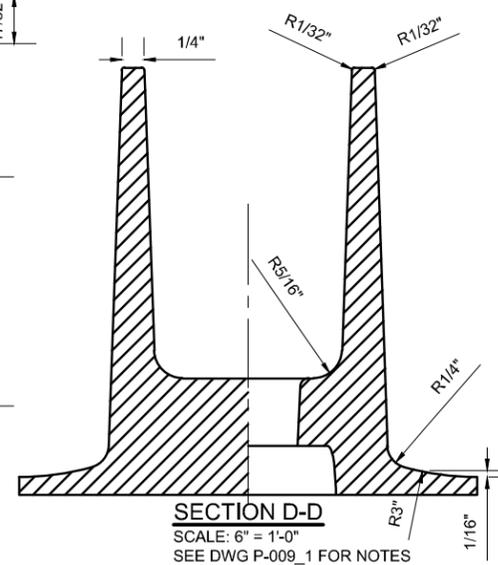
SECTION THRU POSITIONING BOSS

SCALE: 6" = 1'-0"
SEE DWG P-009_2 FOR NOTES



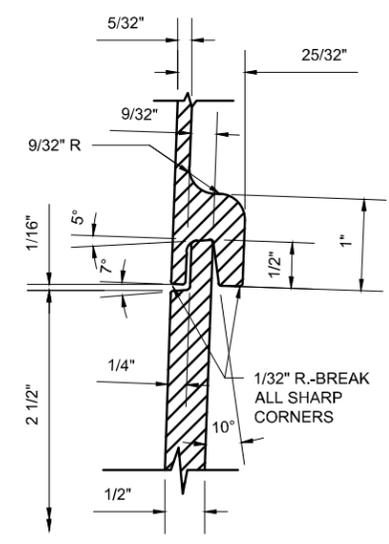
DETAIL OF BEVELED WASHER

SCALE: 6" = 1'-0"
SEE DWG P-009_2 FOR
NOTES
MAT'L: ALUMINUM



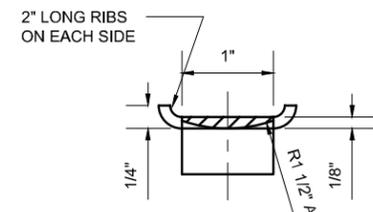
SECTION D-D

SCALE: 6" = 1'-0"
SEE DWG P-009_1 FOR NOTES



SECTION

SCALE: 6" = 1'-0"
SEE DWG P-009_2 FOR
NOTES



SECTION DETAIL "E"

SCALE: 6" = 1'-0"
MAT'L: 1/8" THK. ST. STL.
SEE DWG P-009_2 FOR
ADDITIONAL NOTES

FOR REMOVAL ONLY

REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2011	GPI	REPLICATED IN CADD
0	07/1964	JSB	H-5010(11A) CREATED

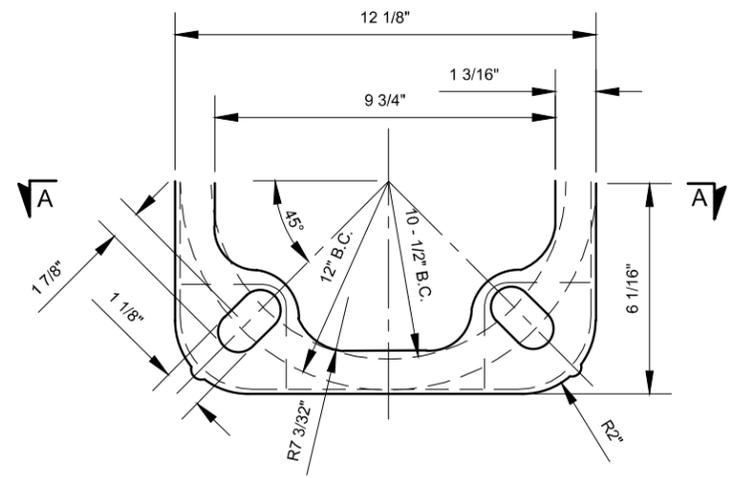
REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2011	GPI	REPLICATED IN CADD
0	05/1963	RP	H-5010(10) CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
DETAILS FOR SHOE AND TRANSFORMER BASE FOR TYPE 10 LAMP POLE		
SCALE: AS NOTED	OLD DRAWING NO. H-5010(10) H-5010(11A)	DRAWING NO. P-009_3

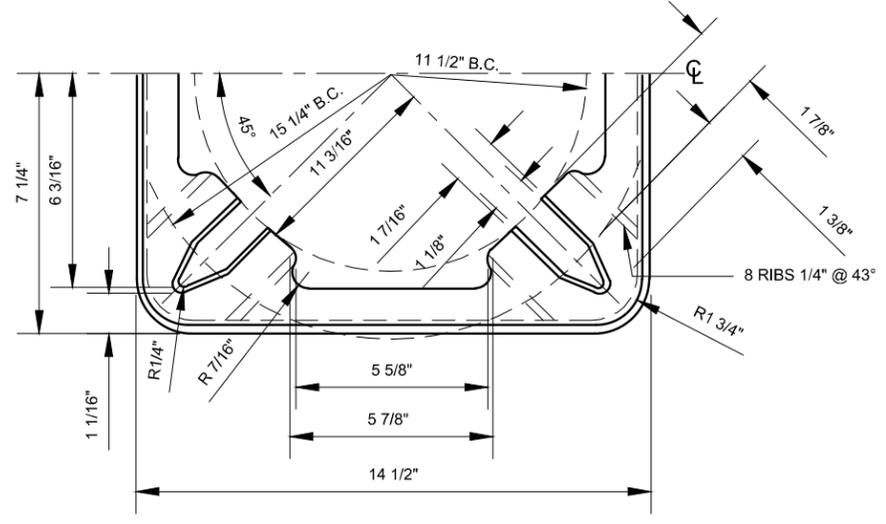


NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013

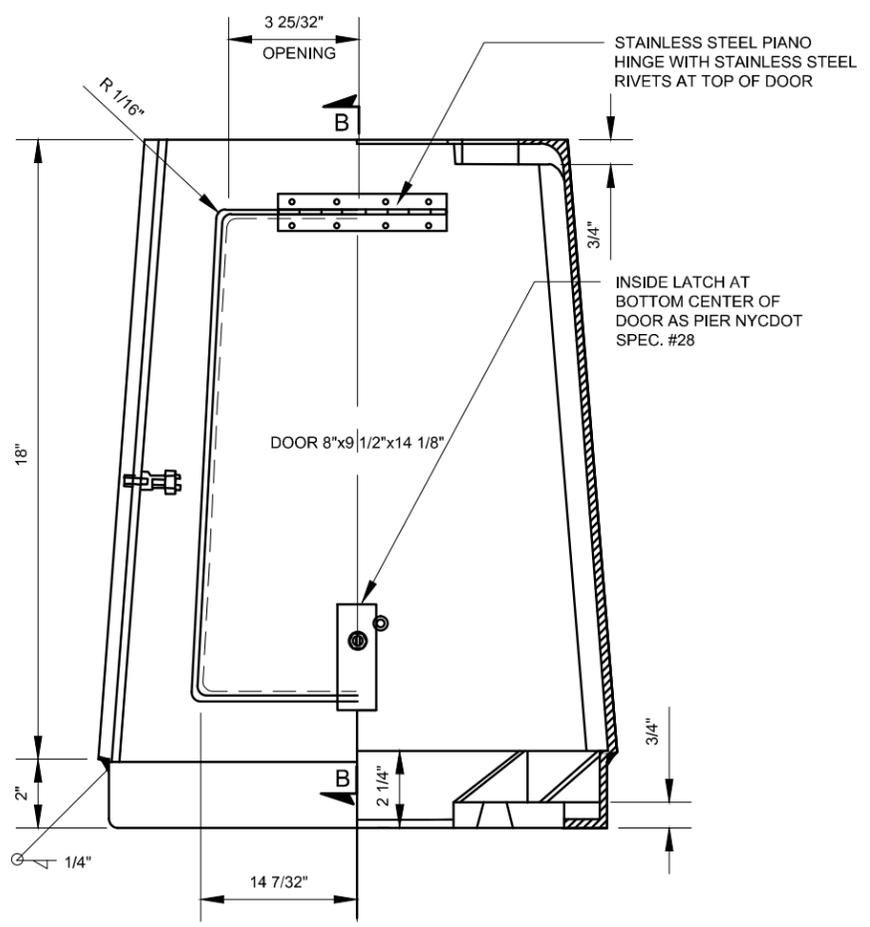
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



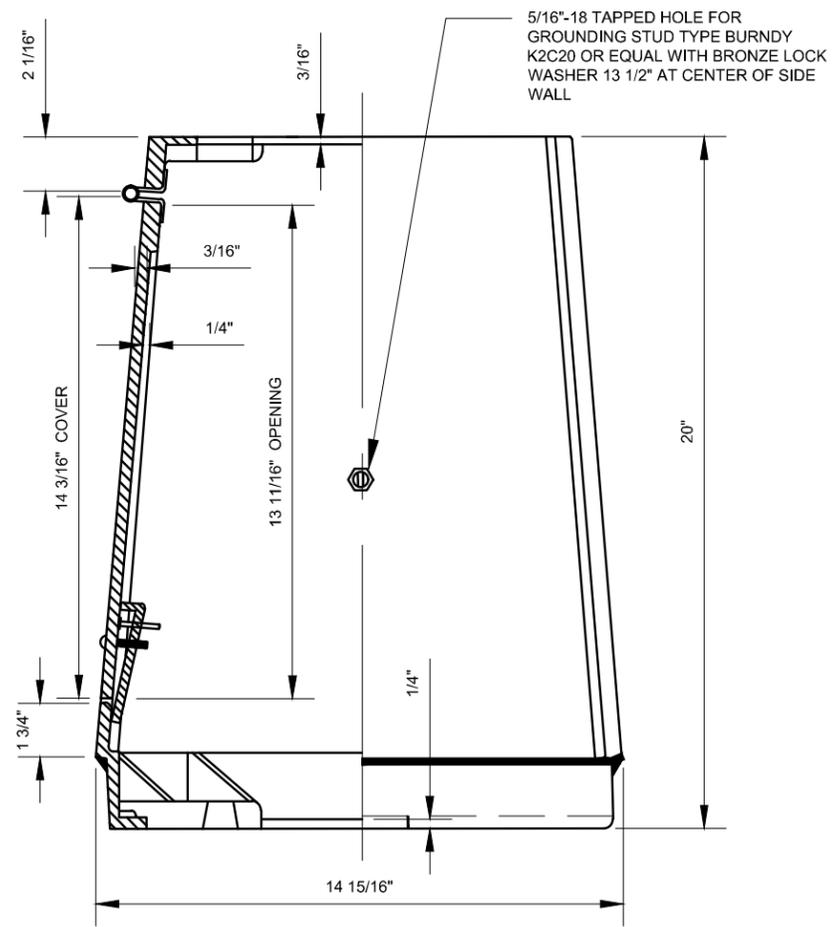
HALF SECTION TOP VIEW



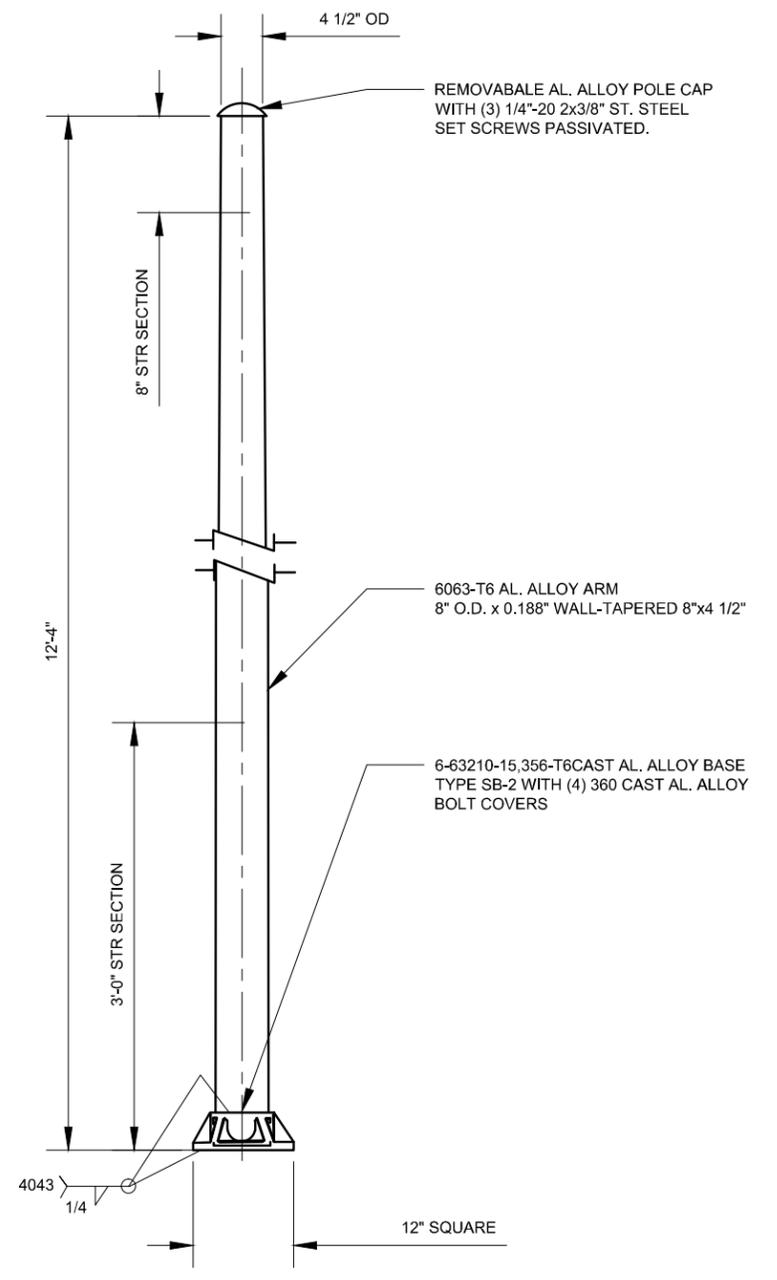
HALF SECTION BOTTOM VIEW



SECTION "A-A"



SECTION "B-B"



**"S-14A" SHAFT
N.T.S.**

- NOTES:**
1. ALL MATERIAL TO BE ALUM. A356-T6 TWO PIECES WELDED TOGETHER.
 2. SEE F-001 FOR FOUNDATION.

- NOTES:**
1. SHOE BASE TO BE STAMPED "NYC 83, C-H IN 3/8" LETTERS PER 6-63210-11.
 2. SUPPLY WITH 4 ASSEMBLIES CONSISTING OF 1"-8x4" HEX. HEAD BOLT OVERSIZE FLATWASHER, LOCK WASHER AND HEX NUT (ASS'Y NO.A-81420)

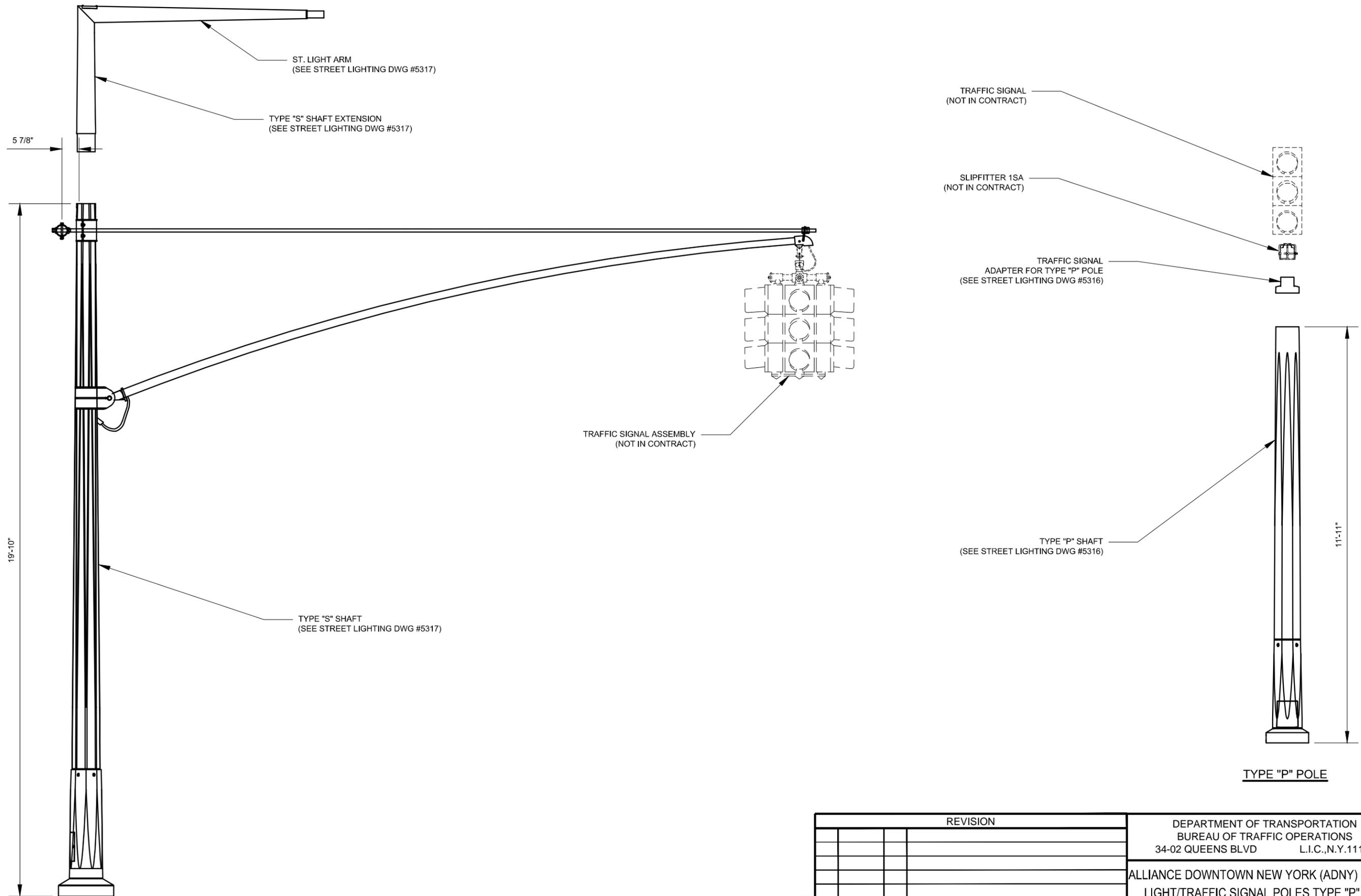
"S-14A" TRANSFORMER BASE



REVISION			
NO	DATE	BY	DESCRIPTION
2	03/2011	GPI	REPLICATED IN CADD
1	10/2004	JH	LC-412S
0	1960	N/A	LC-412S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
"S-14A" SHAFT AND TRANSFORMER BASE		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.	LC-412S	P-010

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



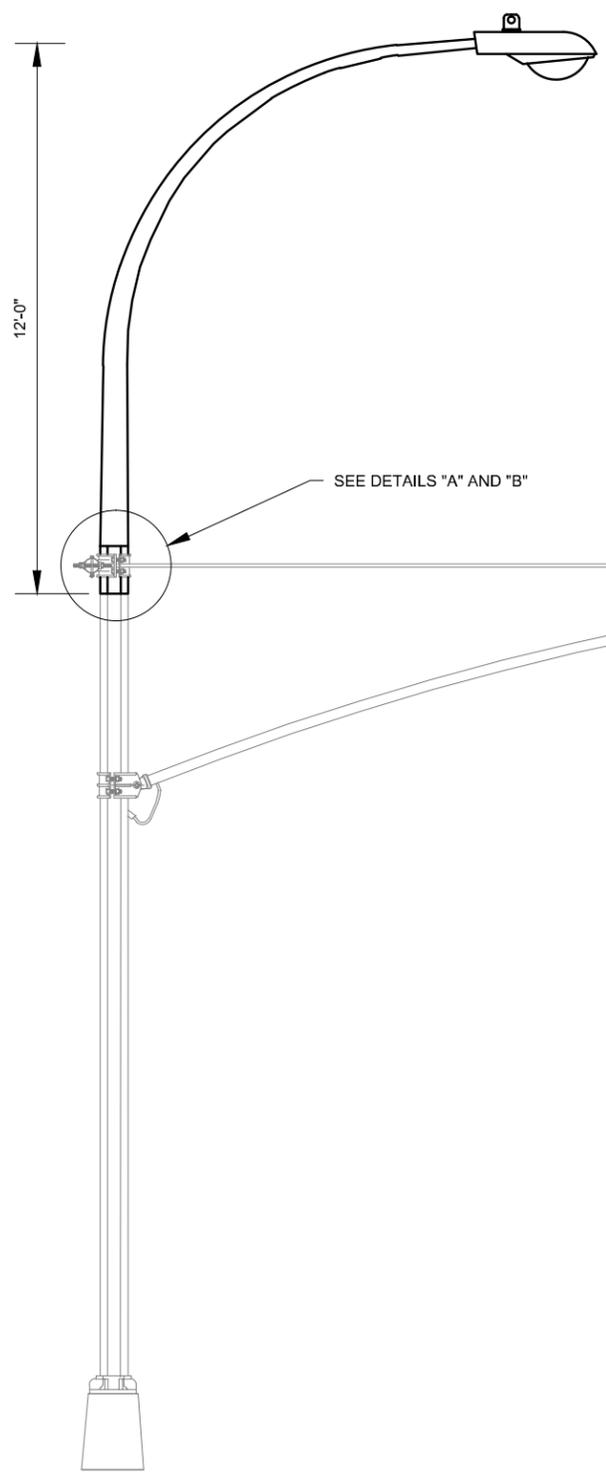
REVISION			
NO	DATE	BY	DESCRIPTION
0	2013	GPI	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
ALLIANCE DOWNTOWN NEW YORK (ADNY) STREET LIGHT/TRAFFIC SIGNAL POLES TYPE "P" & "S"		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.		P-011

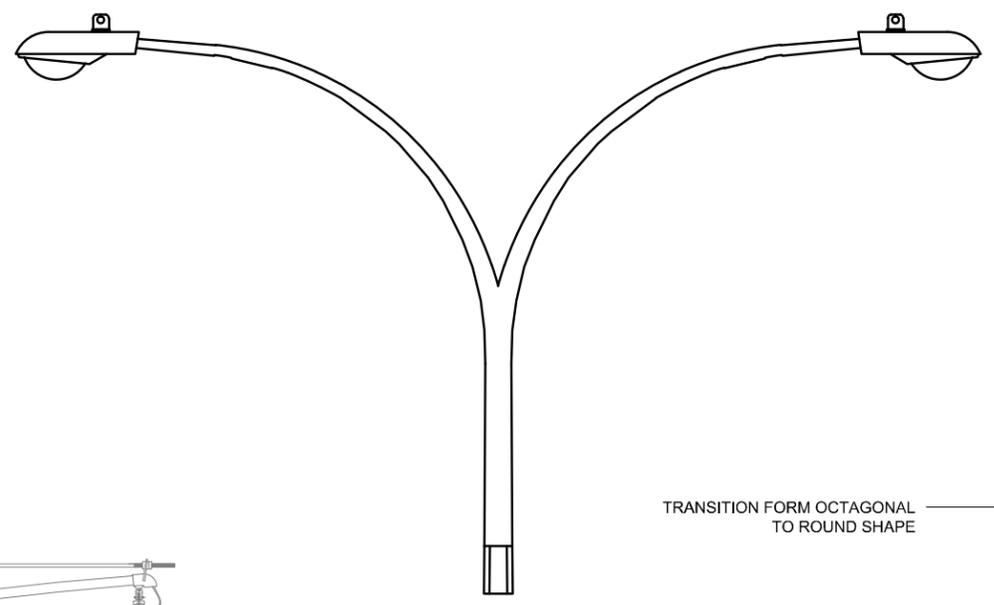
TYPE "S" POLE

TYPE "P" POLE

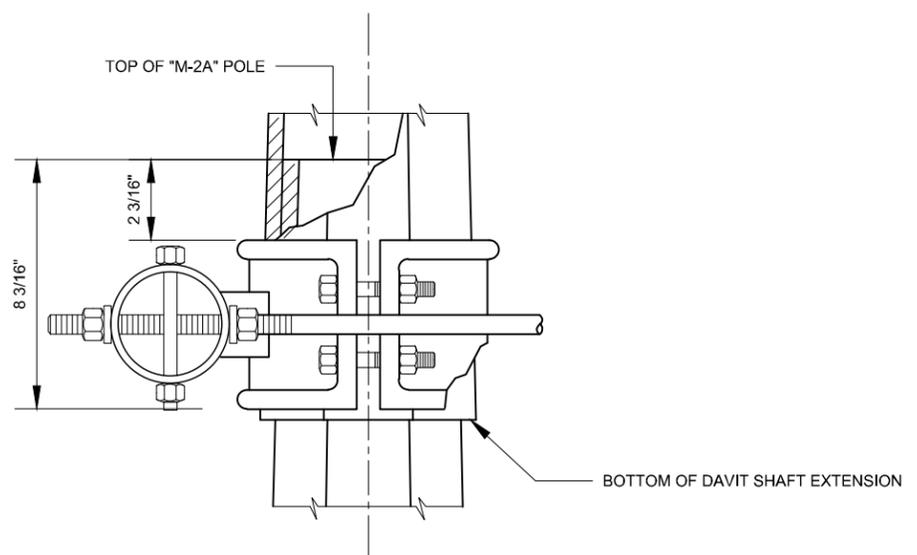
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



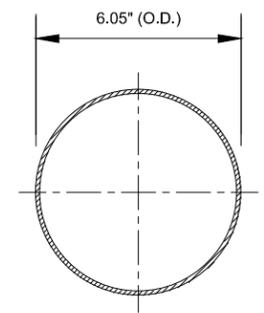
**SINGLE ARM DAVIT SHAFT EXTENSION
ON "M-2A" POLE**
SCALE: 1/4" = 1'-0"



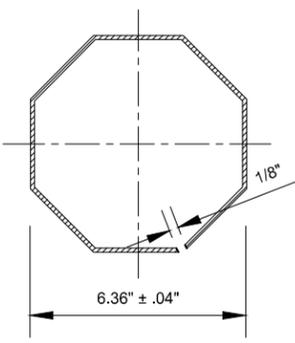
TWIN ARM DAVIT SHAFT EXTENSION
SCALE: 1/4" = 1'-0"



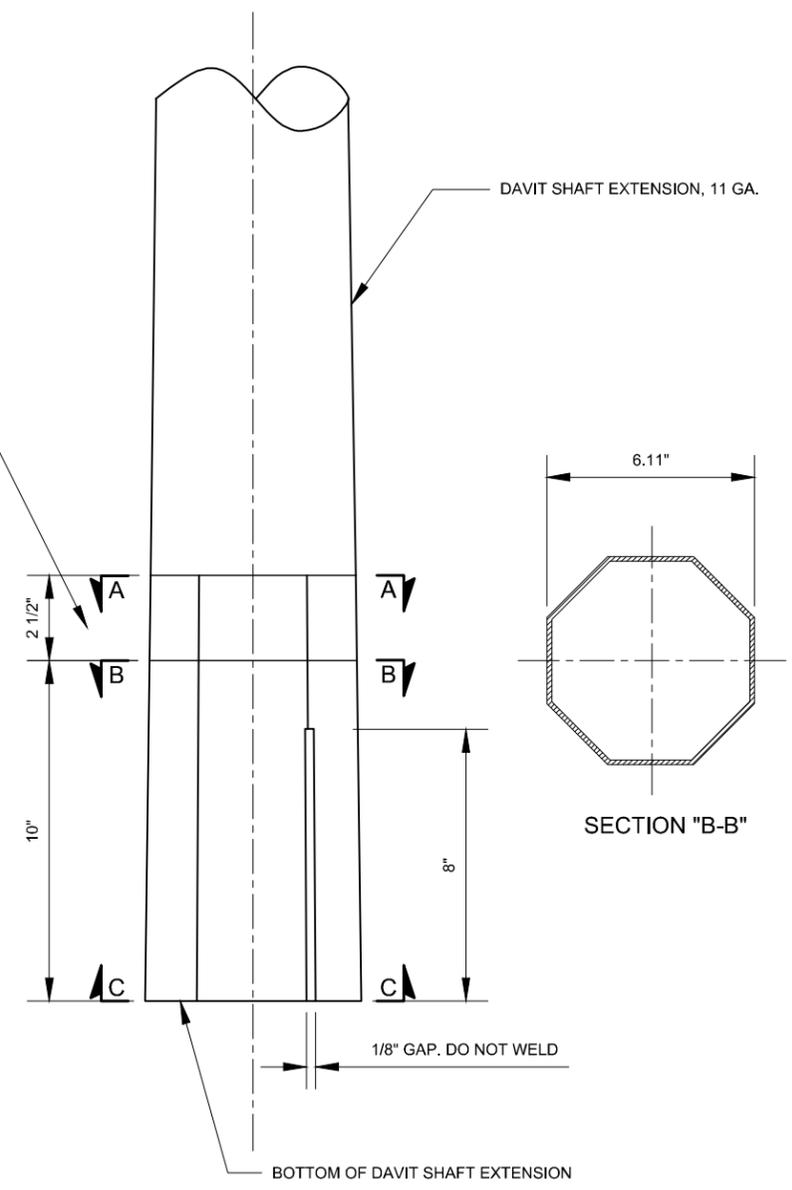
DETAIL "A"
N.T.S.



SECTION "A-A"



SECTION "C-C"



DETAIL "B"
N.T.S.

NOTES:

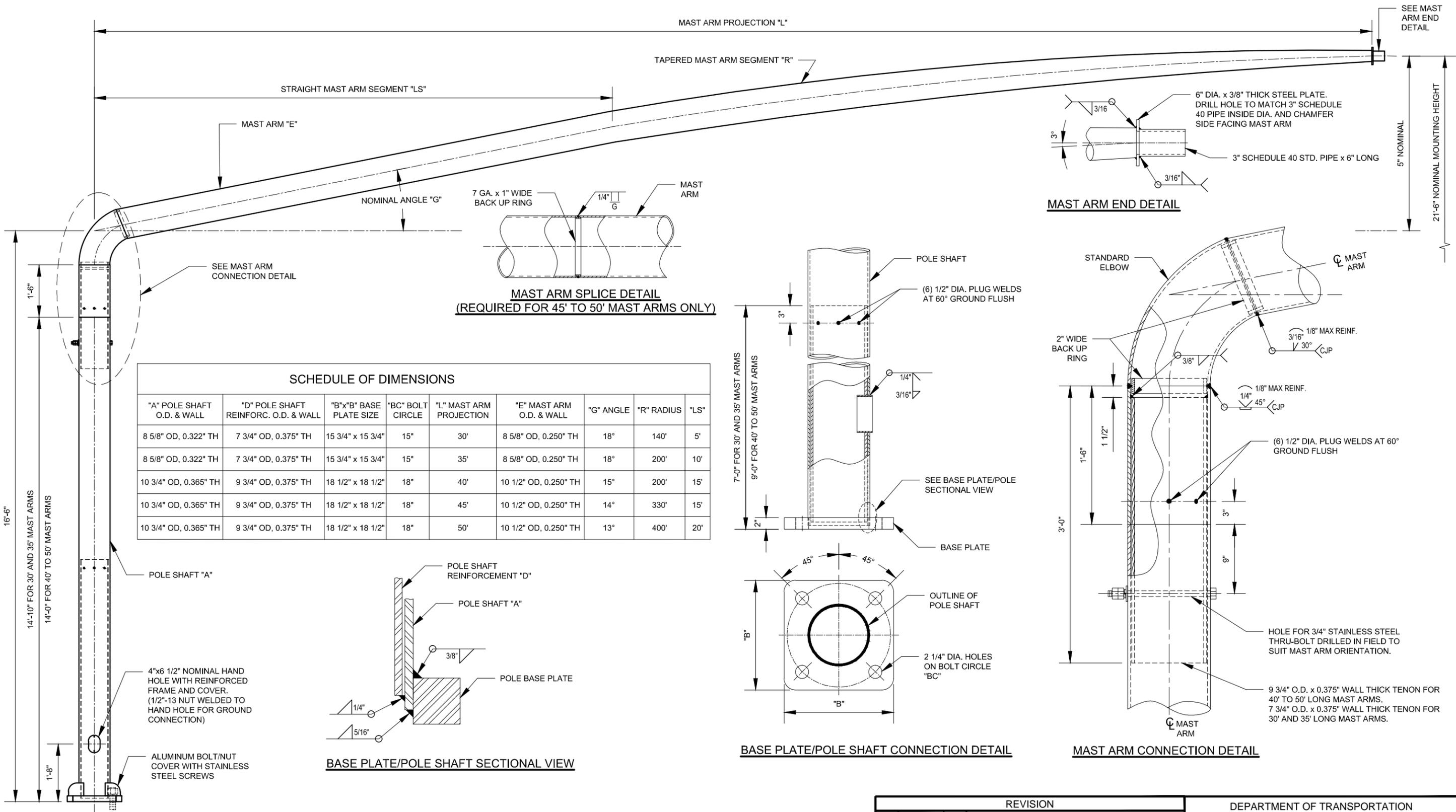
1. ALL DAVIT SHAFT EXTENSIONS SHALL BE ASSEMBLABLE.
2. "M-2A POLE", MAST ARM AND TRAFFIC SIGNAL ASSEMBLIES ARE NOT PART OF CONTRACT.
3. FOR MORE INFORMATION SEE STREET LIGHTING DWG. J-5309B.



REVISION			
1	06/2013	GPI	REPLICATED IN CADD
0	2013	DR	CREATED
NO	DATE	BY	DESCRIPTION

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
DAVIT SHAFT EXTENSION FOR "M-2A" POLE		
SCALE: AS NOTED	OLD DRAWING NO.	DRAWING NO. P-012

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, December 2013



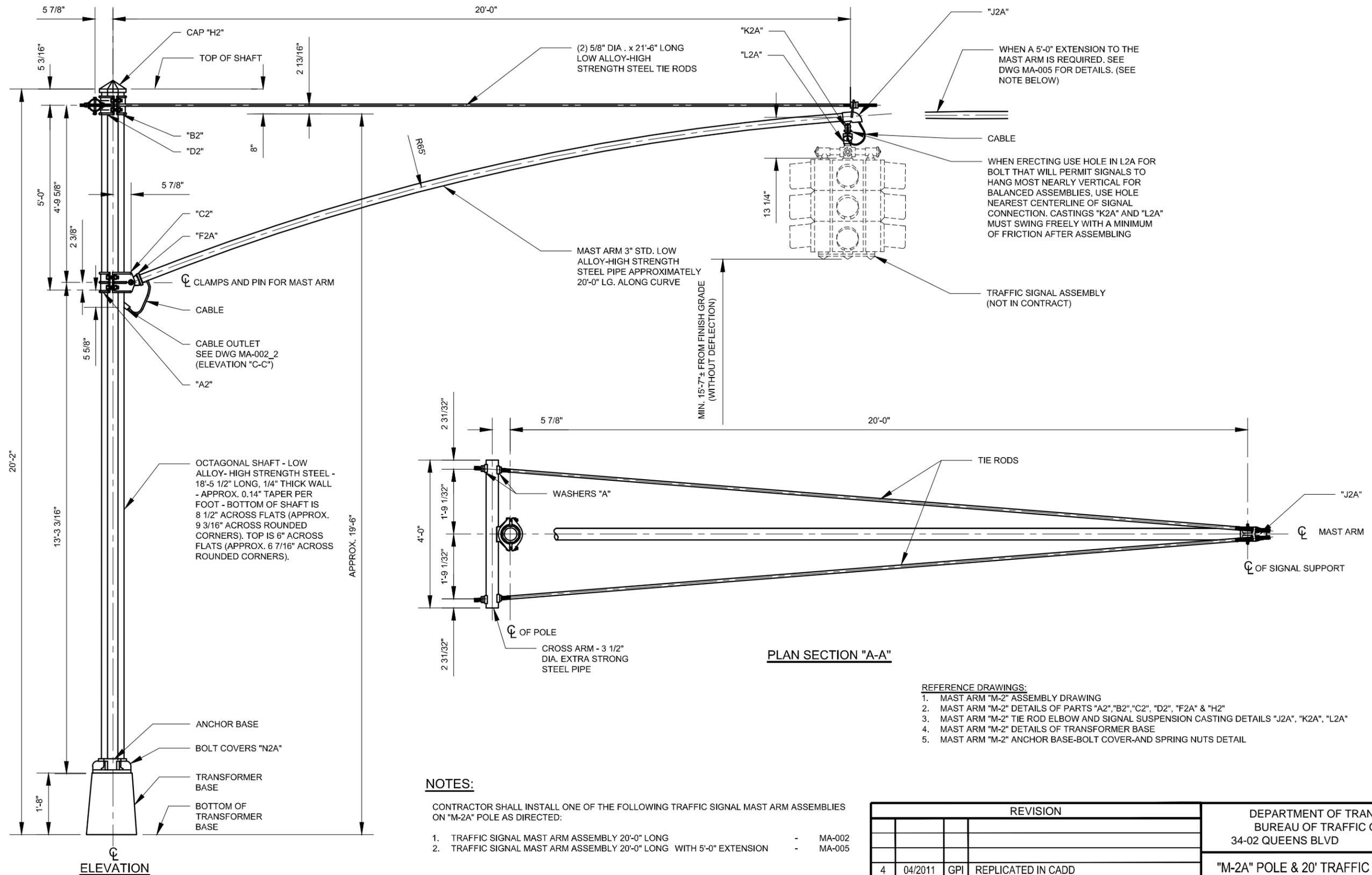
NOTES:

- 3/4" THUR-BOLT ASSEMBLY SHALL BE CONSISTED OF ONE THRU-BOLT, TWO HEX NUTS, ONE FLAT WASHER AND ONE LOCK WASHER, ALL IN STAINLESS STEEL.



REVISION			
NO	DATE	BY	DESCRIPTION
0	12/2013	DR	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
NYSDOT REGION 10 TRAFFIC SIGNAL POLE		
SCALE:	OLD DRAWING NO.	DRAWING NO.
NT.S.		P-013



- REFERENCE DRAWINGS:**
- | | | |
|---|---|--------|
| 1. MAST ARM "M-2" ASSEMBLY DRAWING | - | MA-002 |
| 2. MAST ARM "M-2" DETAILS OF PARTS "A2", "B2", "C2", "D2", "F2A" & "H2" | - | MA-003 |
| 3. MAST ARM "M-2" TIE ROD ELBOW AND SIGNAL SUSPENSION CASTING DETAILS "J2A", "K2A", "L2A" | - | MA-004 |
| 4. MAST ARM "M-2" DETAILS OF TRANSFORMER BASE | - | MA-008 |
| 5. MAST ARM "M-2" ANCHOR BASE-BOLT COVER-AND SPRING NUTS DETAIL | - | MA-009 |

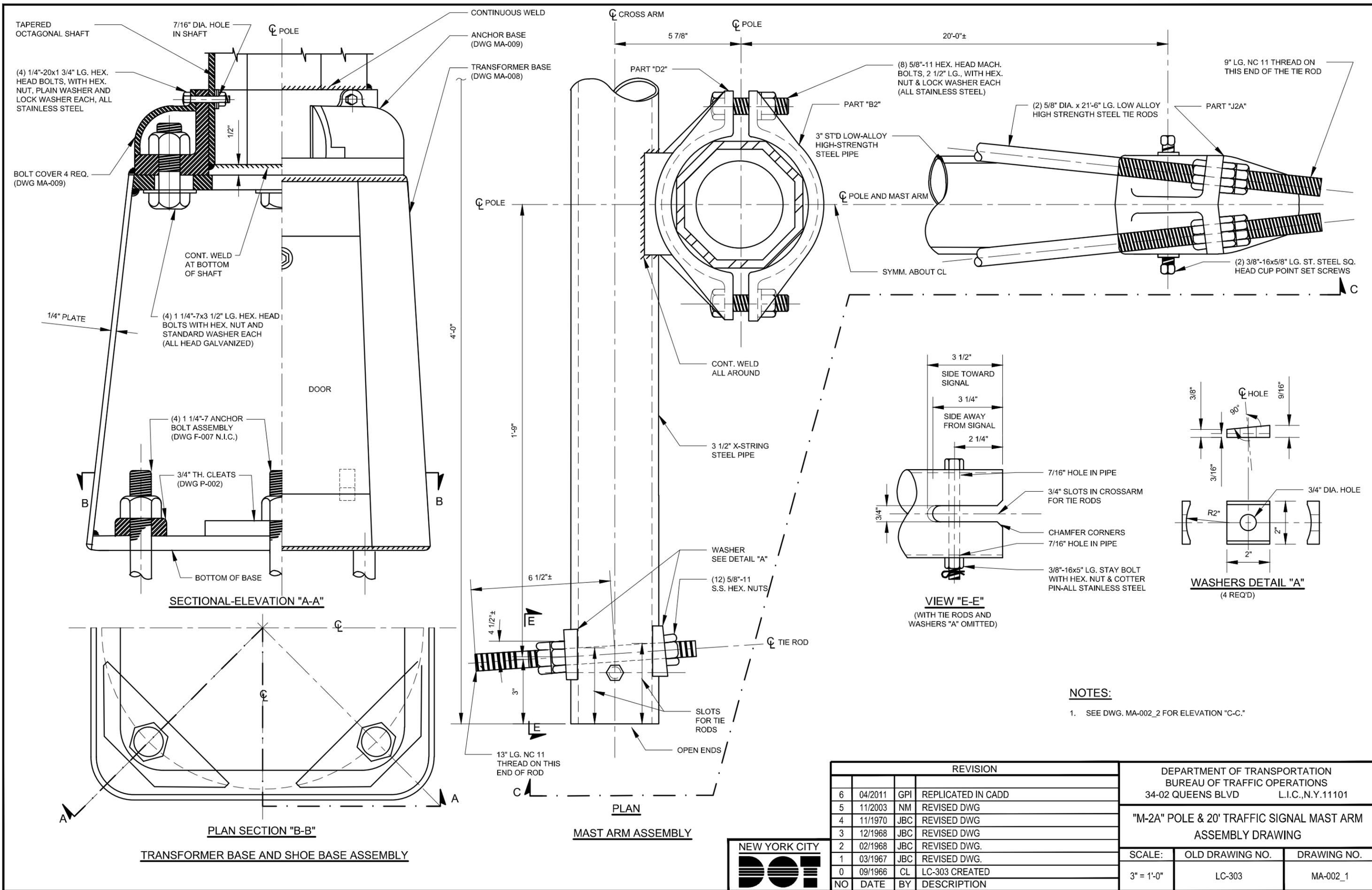
- NOTES:**
- CONTRACTOR SHALL INSTALL ONE OF THE FOLLOWING TRAFFIC SIGNAL MAST ARM ASSEMBLIES ON "M-2A" POLE AS DIRECTED:
- | | | |
|--|---|--------|
| 1. TRAFFIC SIGNAL MAST ARM ASSEMBLY 20'-0" LONG | - | MA-002 |
| 2. TRAFFIC SIGNAL MAST ARM ASSEMBLY 20'-0" LONG WITH 5'-0" EXTENSION | - | MA-005 |



REVISION			
NO	DATE	BY	DESCRIPTION
4	04/2011	GPI	REPLICATED IN CADD
3	11/2003	NM	REVISED DWG.
2	05/1973	JBC	REVISED DWG.
1	03/1967	JBC	REVISED DWG.
0	09/1966	CL	LC-302 CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
"M-2A" POLE & 20' TRAFFIC SIGNAL MAST ARM ARRANGEMENT DRAWING		
SCALE: 3/8" = 1'-0"	OLD DRAWING NO. LC-302	DRAWING NO. MA-001

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



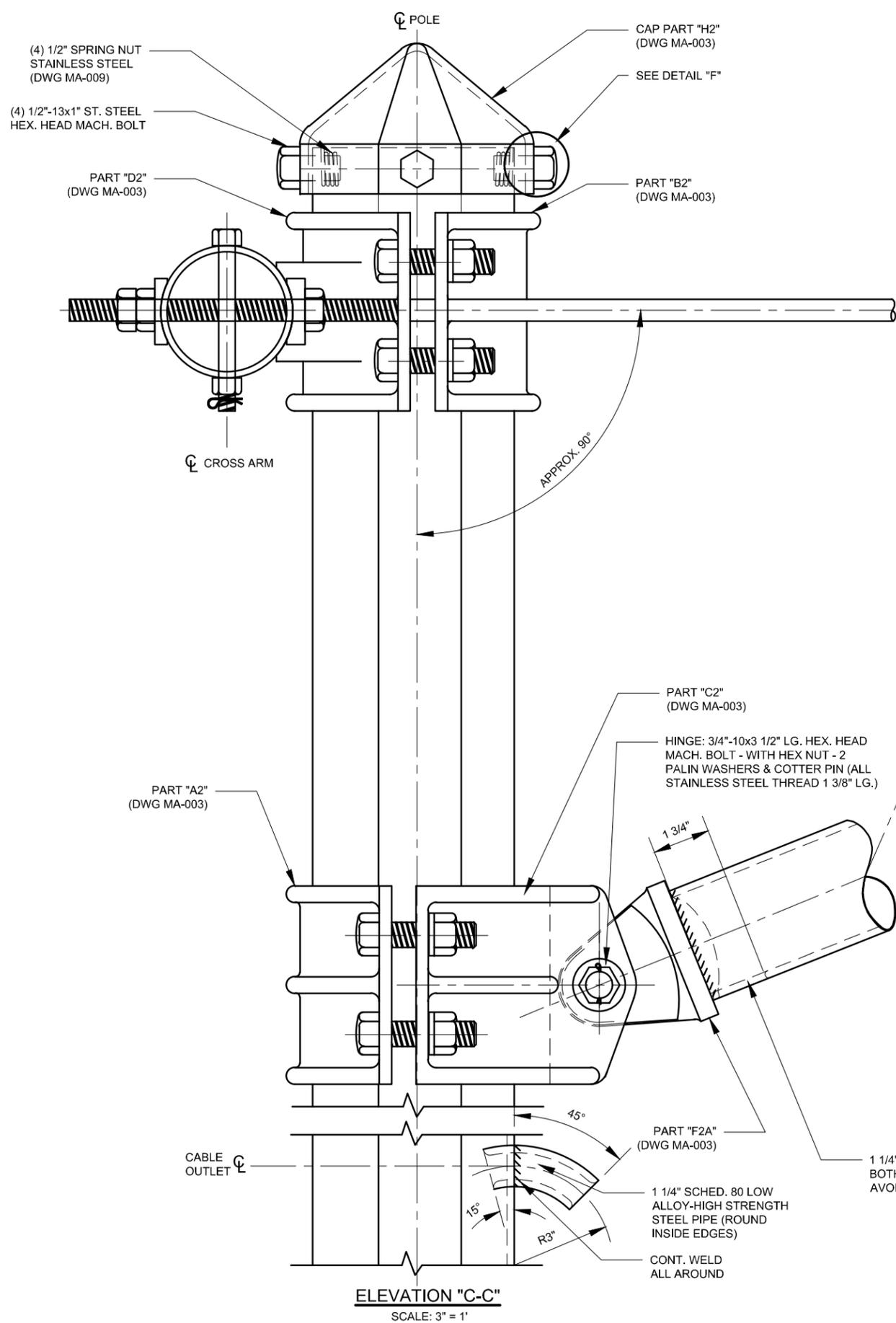
NOTES:
 1. SEE DWG. MA-002_2 FOR ELEVATION "C-C."

REVISION			
NO	DATE	BY	DESCRIPTION
6	04/2011	GPI	REPLICATED IN CADD
5	11/2003	NM	REVISED DWG
4	11/1970	JBC	REVISED DWG
3	12/1968	JBC	REVISED DWG
2	02/1968	JBC	REVISED DWG.
1	03/1967	JBC	REVISED DWG.
0	09/1966	CL	LC-303 CREATED

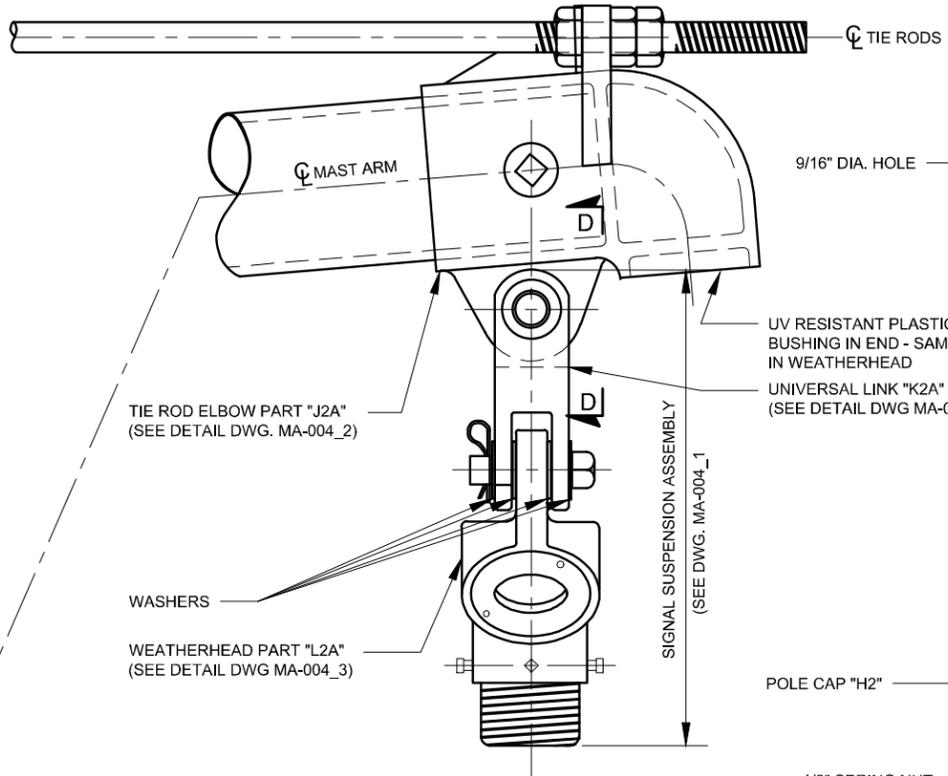
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
"M-2A" POLE & 20' TRAFFIC SIGNAL MAST ARM ASSEMBLY DRAWING		
SCALE:	OLD DRAWING NO.	DRAWING NO.
3" = 1'-0"	LC-303	MA-002_1



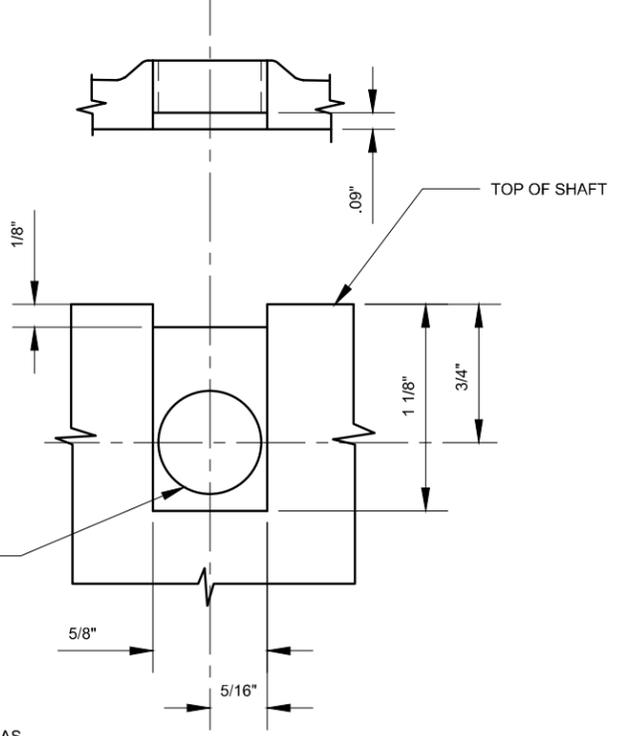
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



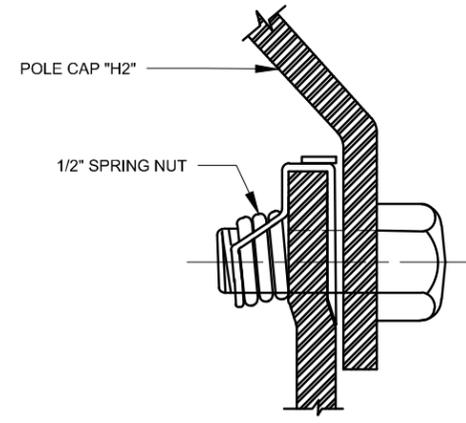
ELEVATION "C-C"
SCALE: 3" = 1'



SECTION "D-D"
SCALE: N.T.S.



OUTSIDE OF SHAFT AT CAP CONNECTION
SCALE: 1" = 1'



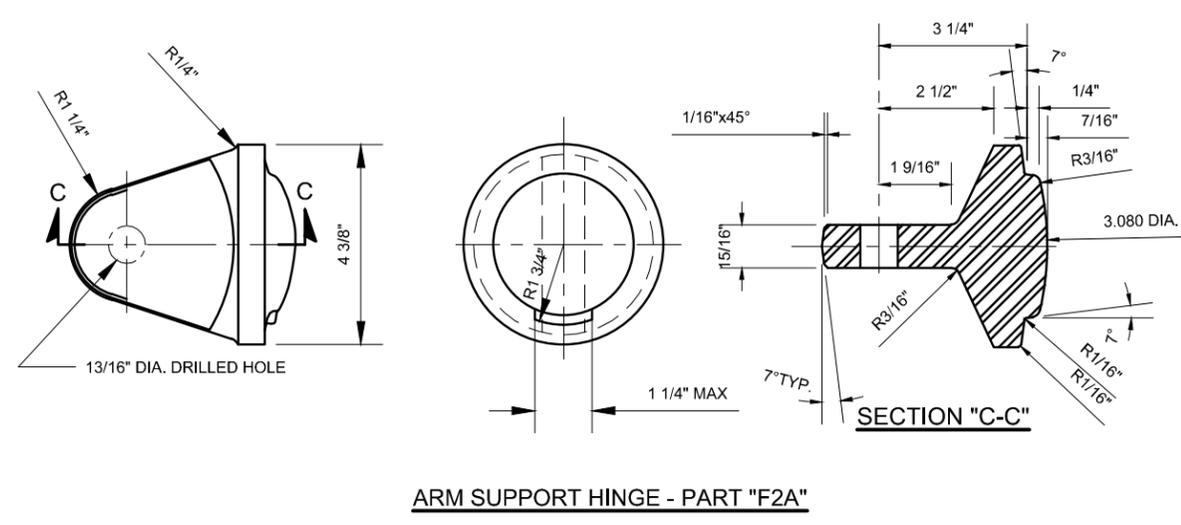
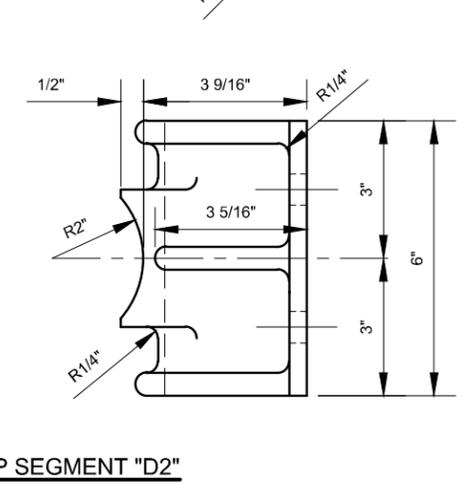
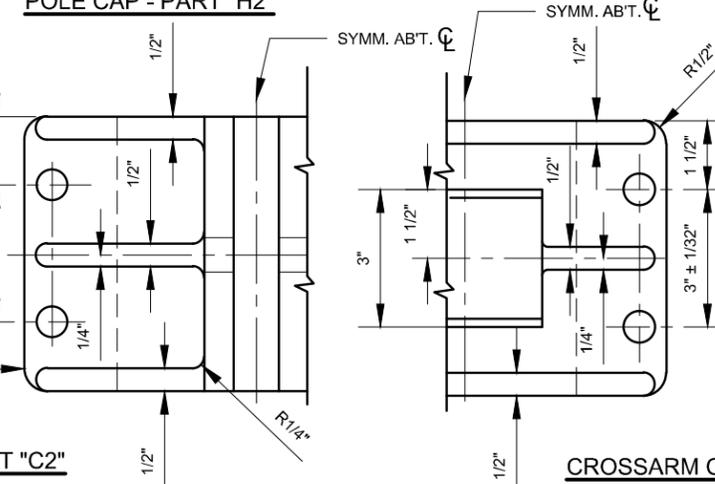
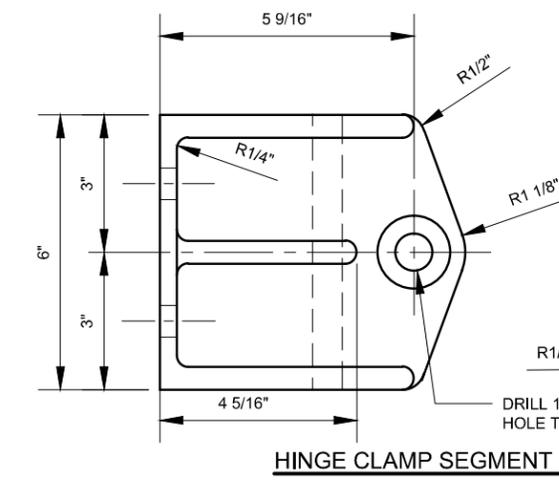
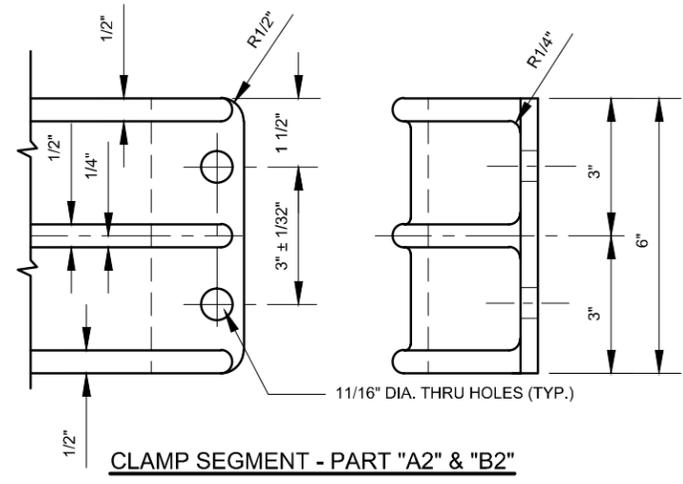
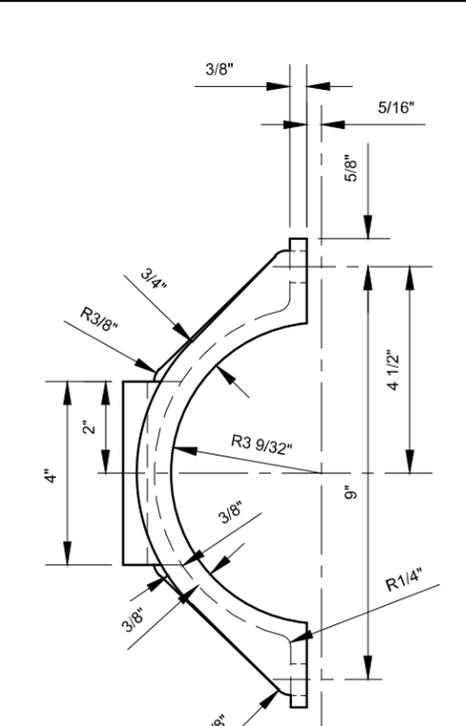
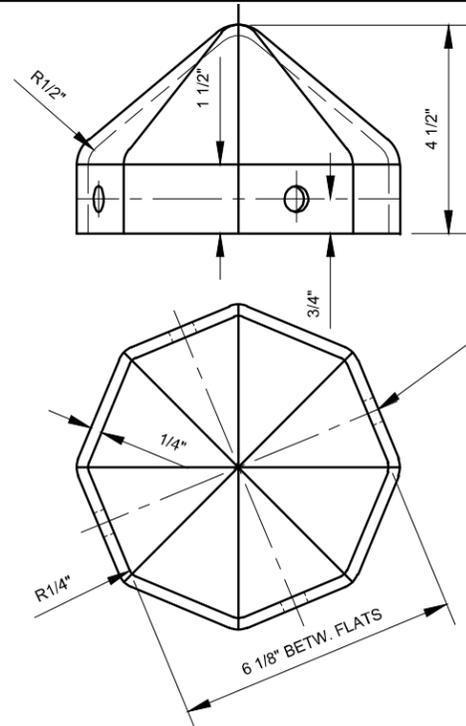
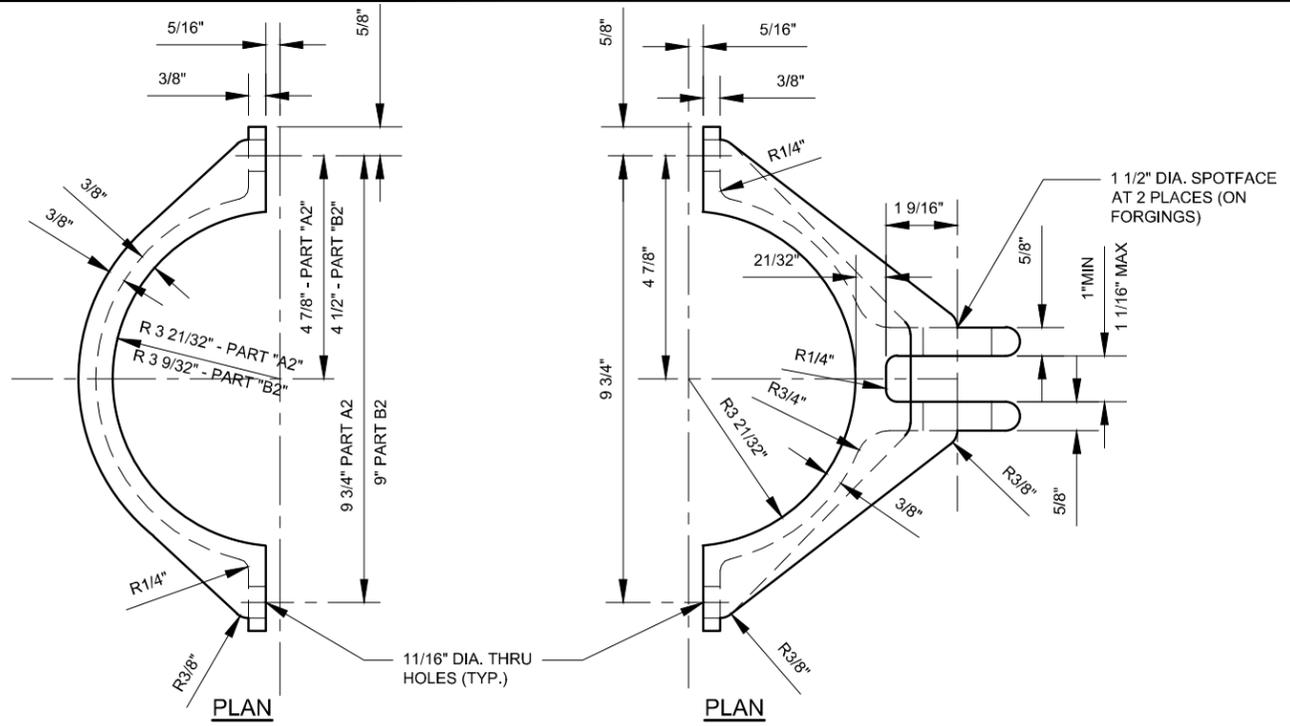
DETAIL -"F"
SCALE: N.T.S.

1 1/4"x1 3/4" CABLE INLET-ROUND BOTH EDGES, INSIDE & OUTSIDE TO AVOID CUTTING CABLE INSULATION.



REVISION				
NO	DATE	BY	DESCRIPTION	
6	04/2011	GPI	REPLICATED IN CADD	
5	11/2003	NM	REVISED DWG	
4	11/1970	JBC	REVISED DWG	
3	12/1968	JBC	REVISED DWG	
2	02/1968	JBC	REVISED DWG.	
1	03/1967	JBC	REVISED DWG.	
0	09/1966	CL	LC-303 CREATED	

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
"M-2A" POLE & 20' TRAFFIC SIGNAL MAST ARM ASSEMBLY DRAWING		
SCALE:	OLD DRAWING NO.	DRAWING NO.
NTS	LC-303	MA-002_2

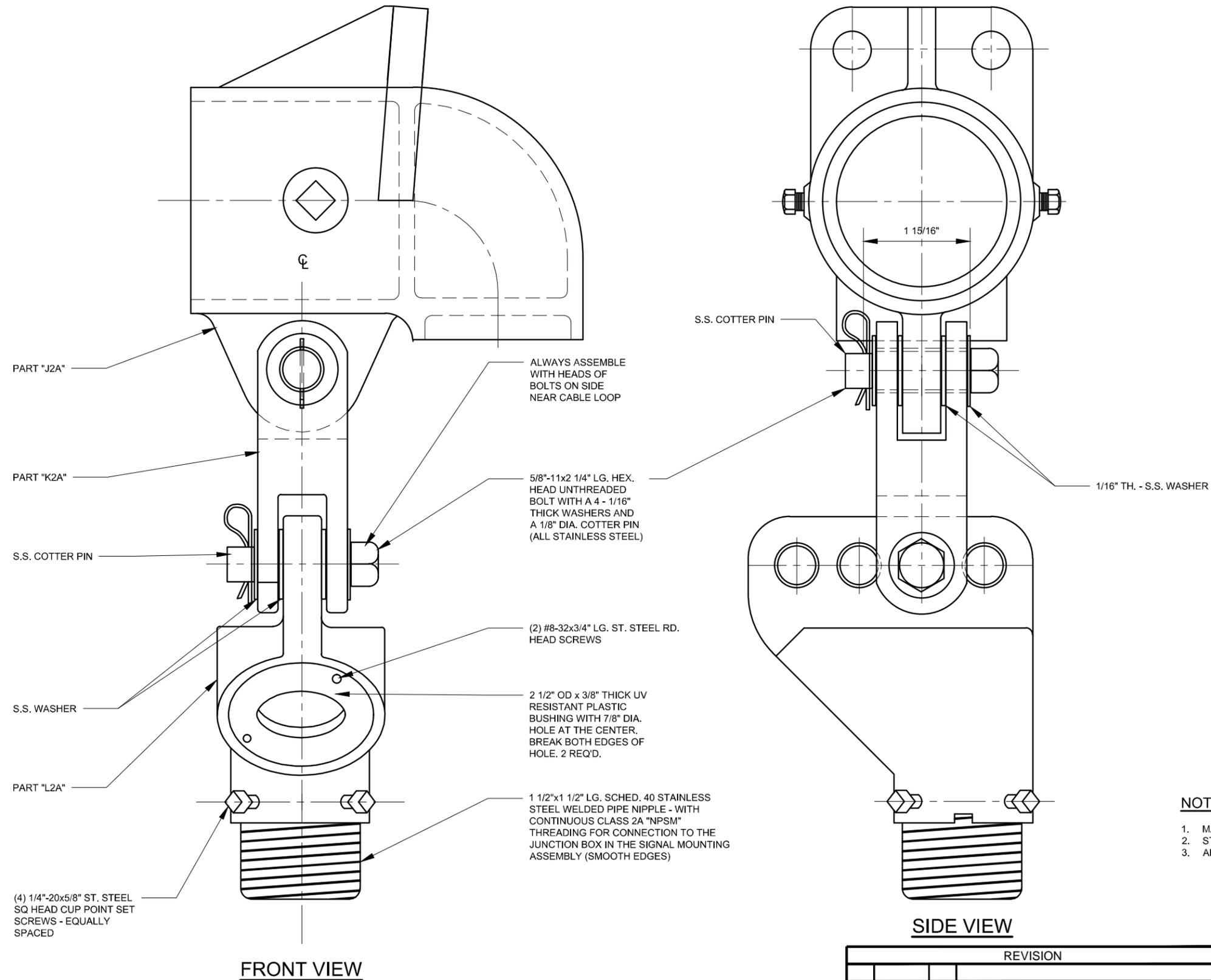


- NOTES**
1. DRILL ALL HOLES BEFORE GALVANIZING.
 2. ALL CAST STEEL - A.S.T.M. A27-65 AND FORGED STEEL-C1025 OR EQUAL.
 3. ALL DIMENSIONS SHOWN ARE SUBJECT TO STANDARD FORGING AND CASTING PRACTICES



REVISION			
NO	DATE	BY	DESCRIPTION
1	04/2011	GPI	REPLICATED IN CADD
0	09/1966	CL	LC-304 CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
"M-2A" POLE & 20' TRAFFIC SIGNAL MAST ARM DETAILS OF PARTS "A2", "B2", "C2", "D2", "F2A", "H2"		
SCALE: 3" = 1'-0"	OLD DRAWING NO. LC-304	DRAWING NO. MA-003



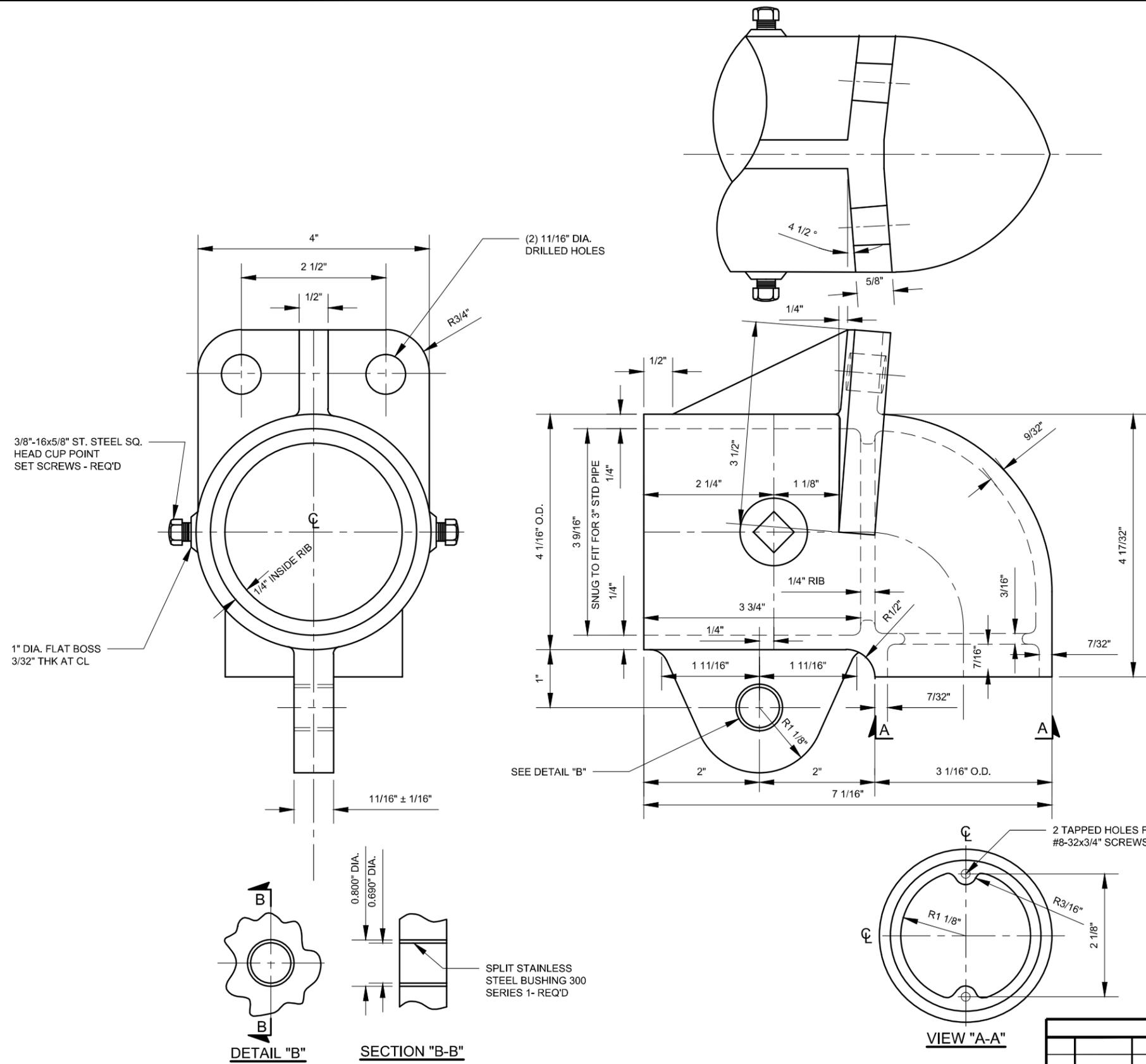
NOTES:

1. MATERIAL: SAND CAST ALUMINUM ALLOY 356-T6.
2. STANDARD TOLERANCES.
3. ALL PIPE THREADS TO BE N.P.S.M. (STRAIGHT MACHINE)



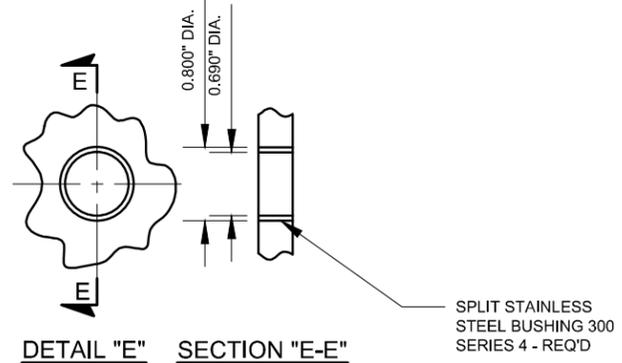
REVISION			
NO	DATE	BY	DESCRIPTION
5	04/2011	GPI	REPLICATED IN CADD
4	04/1977	N/A	LC-305 REVISION
3	09/1971	N/A	LC-305 REVISION
2	11/1970	JBC	LC-305 REVISION
1	03/1967	JBC	LC-305 REVISION
0	09/1966	CL	LC-305 CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
TRAFFIC SIGNAL MAST ARM TIE ROD ELBOW & SIGNAL SUSPENSION CASTING DETAIL-ASSEMBLY		
SCALE:	OLD DRAWING NO.	DRAWING NO.
6" = 1'-0"	LC-305	MA-004_1

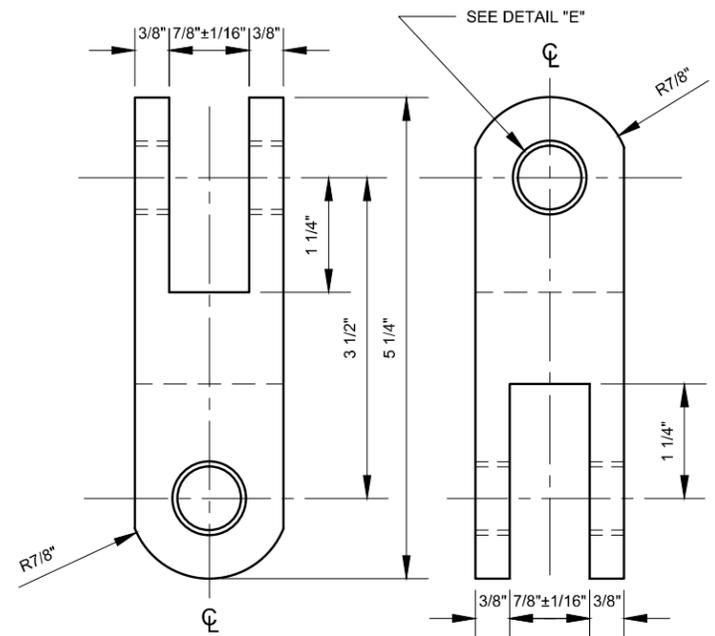


TIE ROD ELBOW - PART "J2A"

- NOTES:**
1. MATERIAL: SAND CAST ALUMINUM ALLOY 356-T6.
 2. STANDARD TOLERANCES.
 3. ALL PIPE THREADS TO BE N.P.S.M. (STRAIGHT MACHINE)



SPLIT STAINLESS STEEL BUSHING 300 SERIES 4 - REQ'D

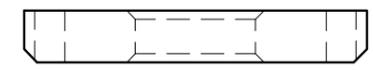
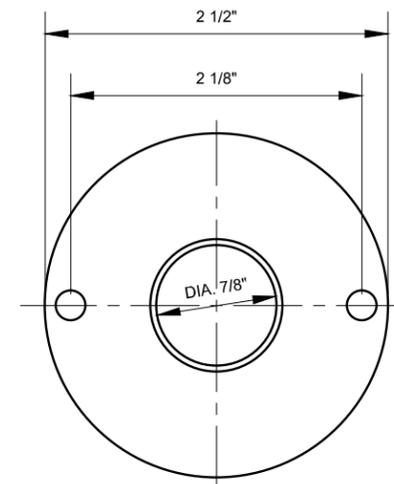
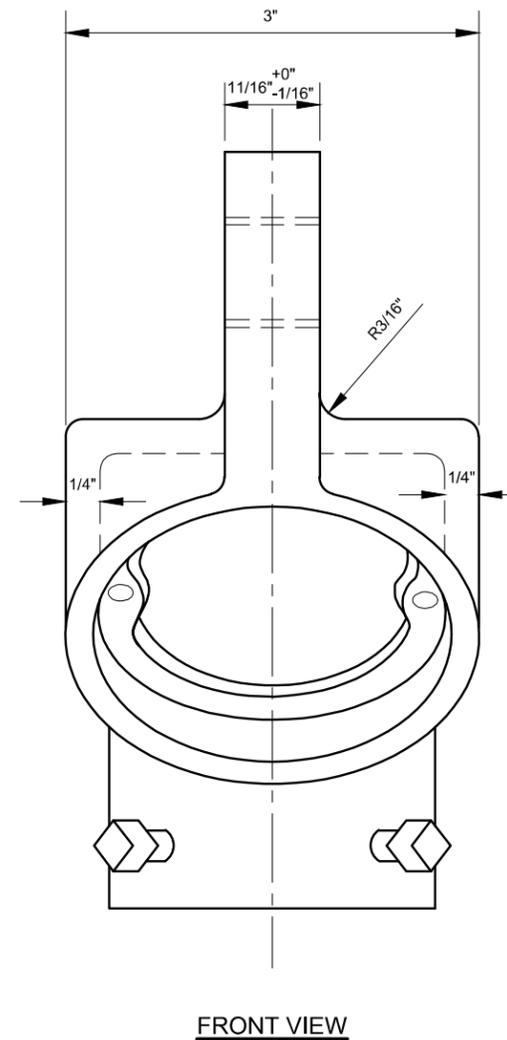
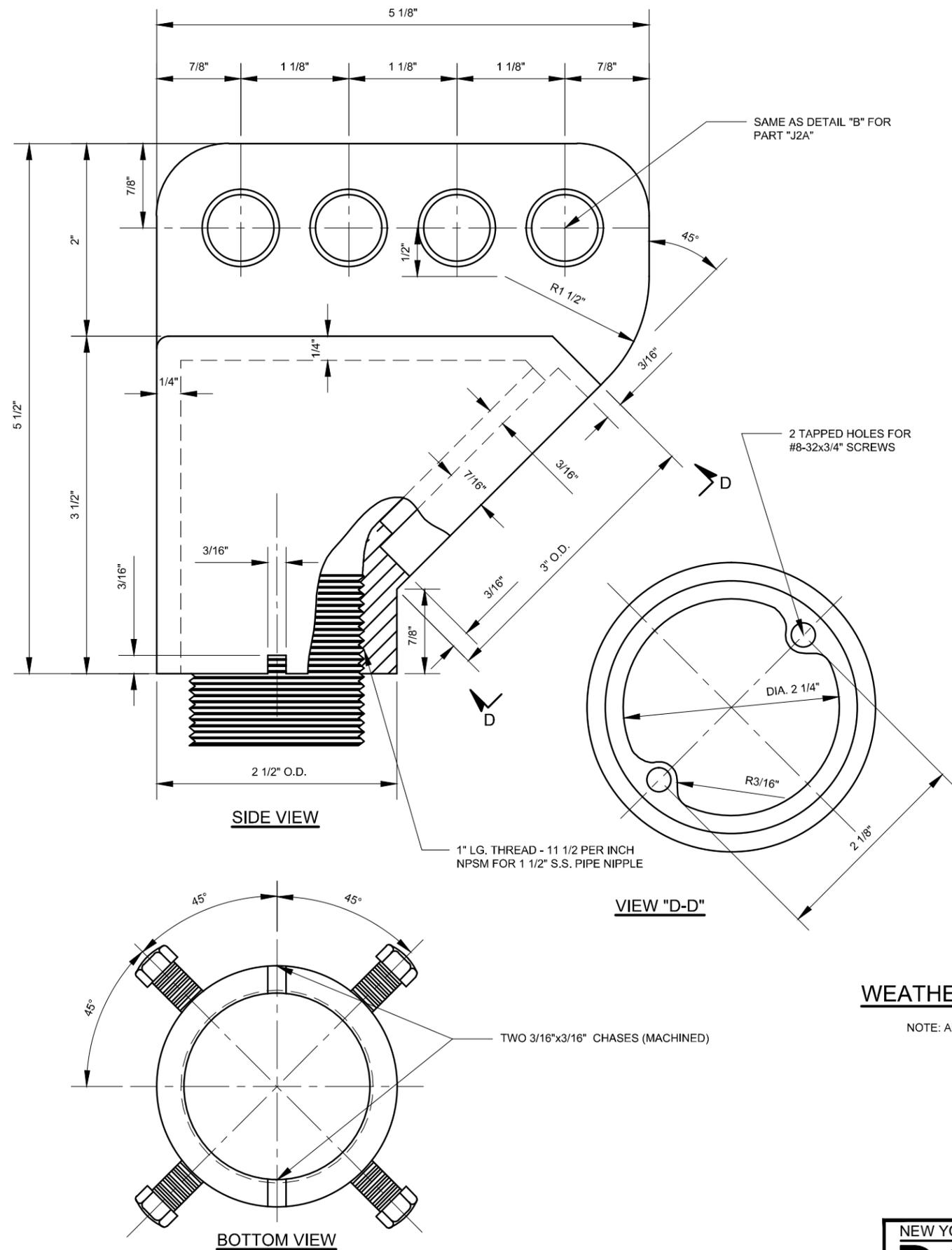


CONCENTRIC LINK - PART "K2A"



REVISION			
NO	DATE	BY	DESCRIPTION
5	04/2011	GPI	REPLICATED IN CADD
4	04/1977	N/A	LC-305 REVISION
3	09/1971	N/A	LC-305 REVISION
2	11/1970	JBC	LC-305 REVISION
1	03/1967	JBC	LC-305 REVISION
0	09/1966	CL	LC-305 CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
TRAFFIC SIGNAL MAST ARM TIE ROD ELBOW & SIGNAL SUSPENSION CASTING DETAIL-"J2A"&"K2A"		
SCALE:	OLD DRAWING NO.	DRAWING NO.
6" = 1'-0"	LC-305	MA-004_2



UV RESISTANT PLASTIC BUSHING

WEATHERHEAD - PART "L2A"

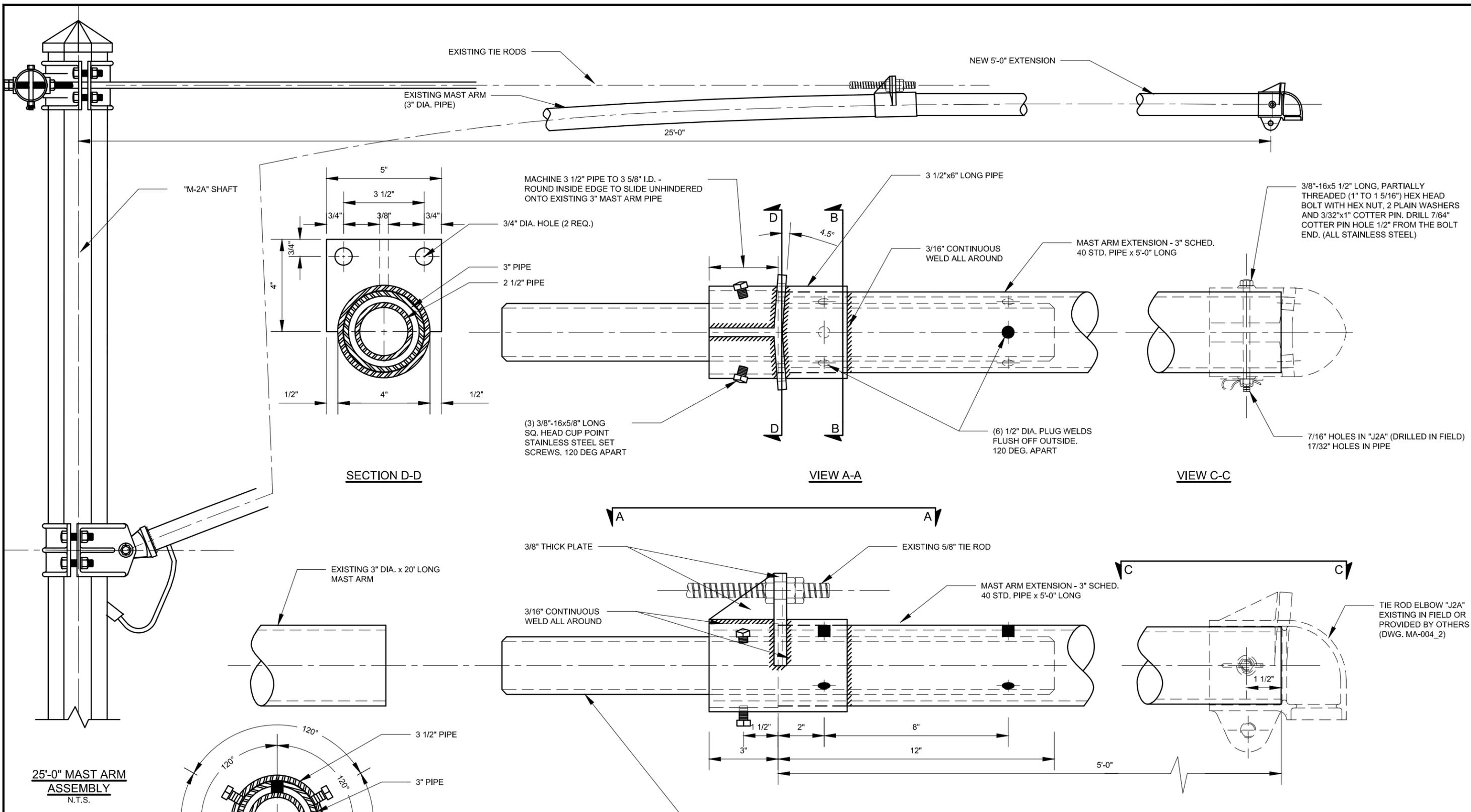
NOTE: ALL INSIDE EDGES TO BE ROUNDED



REVISION			
NO	DATE	BY	DESCRIPTION
6	04/2011	GPI	REPLICATED IN CADD
5	04/1977	N/A	LC-305 REVISION
4	09/1971	N/A	LC-305 REVISION
3	11/1970	JBC	LC-305 REVISION
2	03/1967	JBC	LC-305 REVISION
1	09/1966	CL	LC-305 CREATED
0	07/1970	REP	LB1333S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
TRAFFIC SIGNAL MAST ARM TIE ROD ELBOW & SIGNAL SUSPENSION CASTING DETAIL - "L2A"		
SCALE: 6" = 1'-0"	OLD DRAWING NO. LC-305 LB-1333S	DRAWING NO. MA-004_3

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



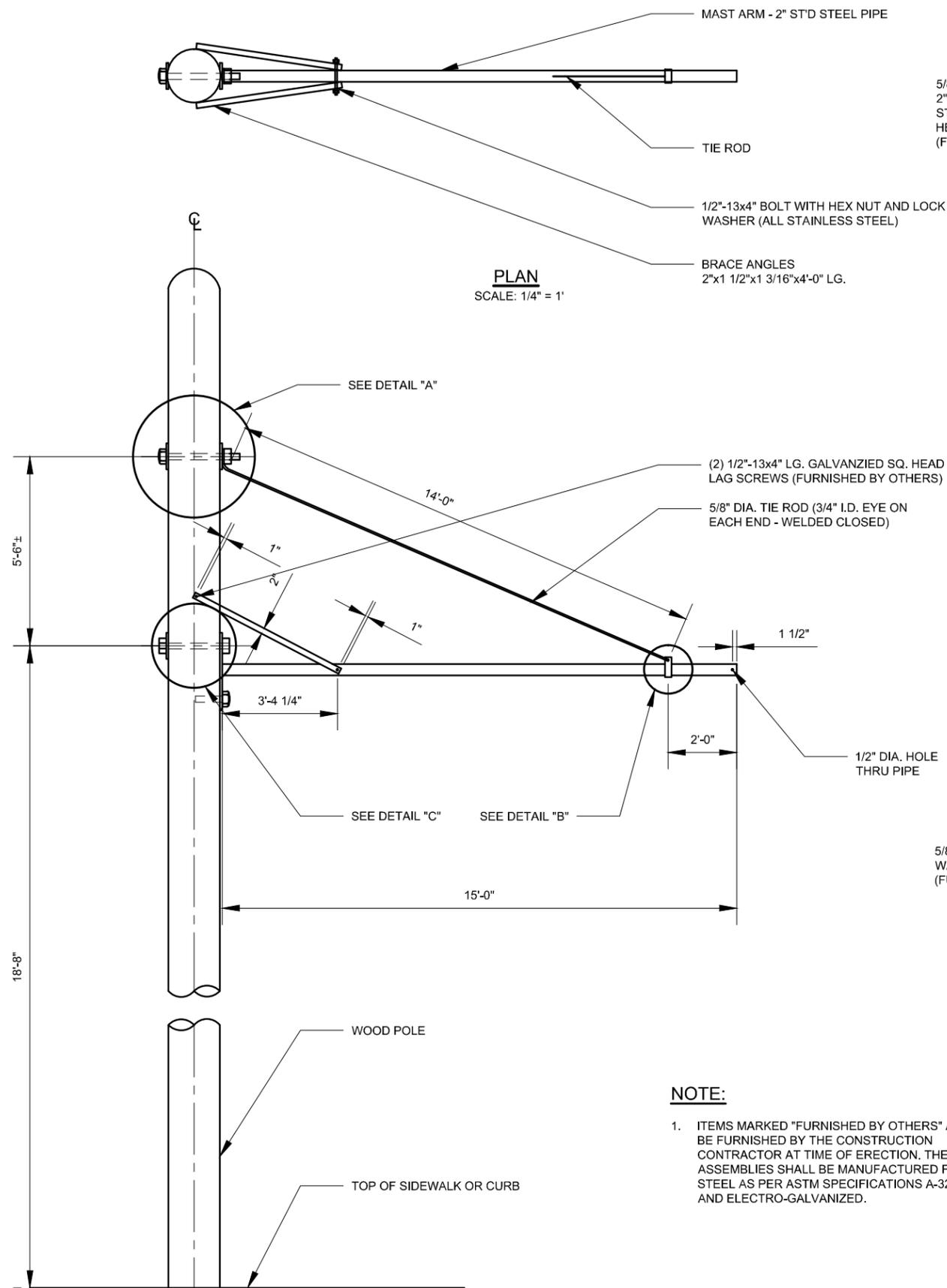
25'-0" MAST ARM ASSEMBLY
N.T.S.

- NOTES:**
1. ALL PIPES SHALL BE SCHEDULE 40.
 2. ALL STEEL IN 5' MAST ARM EXTENSION SHALL BE HIGH-STRENGTH LOW-ALLOY.
 3. AFTER FABRICATION, ENTIRE MAST ARM EXTENSION ASSEMBLY SHALL BE HOT-DIP GALVANIZED. GALVANIC COATING SHALL NOT HINDER ASSEMBLING IT TO THE MAST ARM.



REVISION				
NO	DATE	BY	DESCRIPTION	
2	03/2013	SBF	DESIGN CHANGE	
1	06/2011	GPI	REPLICATED IN CADD	
0	09/1971	JBC	LB-1354-S CREATED	

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
5' EXTENSION FOR 20' TRAFFIC SIGNAL MAST ARM		
SCALE:	OLD DRAWING NO.	DRAWING NO.
3" = 1'-0"	LB-1354S	MA-005



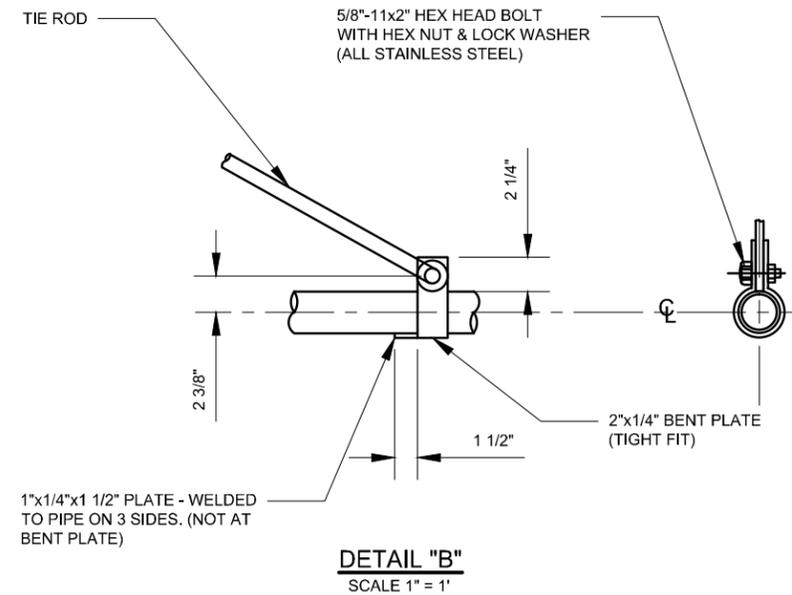
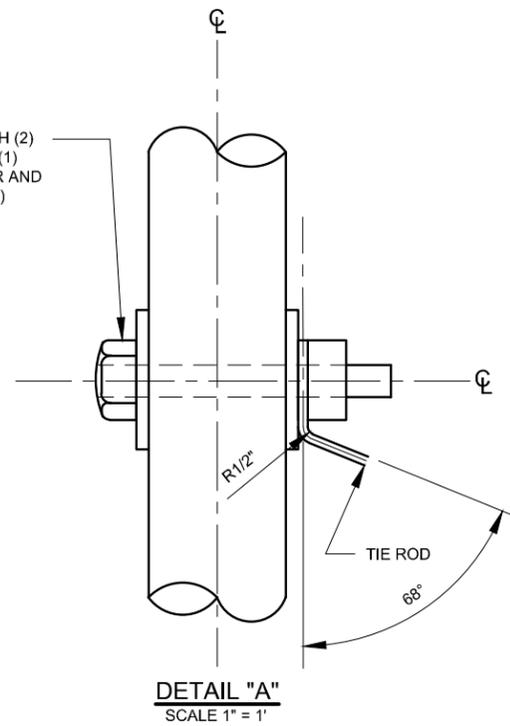
TRAFFIC SIGNAL MAST ARM FOR WOOD POLES "MAW-15" ASSEMBLY

SCALE: 1/4" = 1'

NOTE:

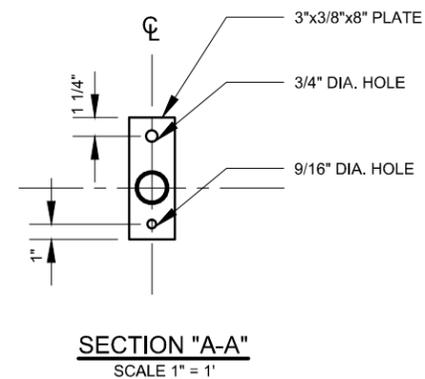
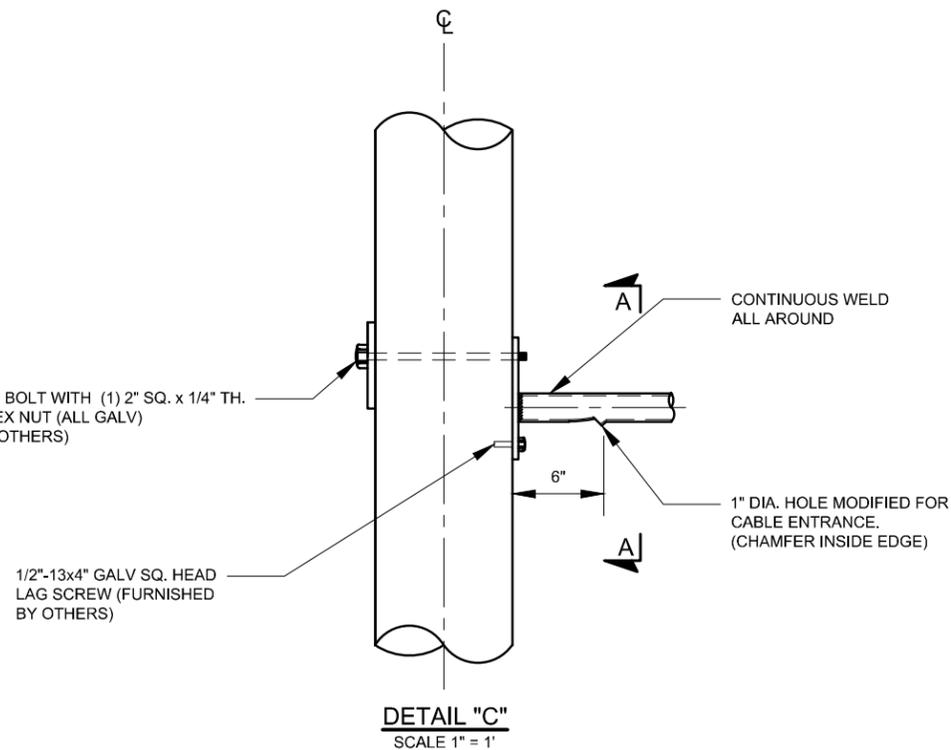
- ITEMS MARKED "FURNISHED BY OTHERS" ARE TO BE FURNISHED BY THE CONSTRUCTION CONTRACTOR AT TIME OF ERECTION. THESE BOLT ASSEMBLIES SHALL BE MANUFACTURED FROM STEEL AS PER ASTM SPECIFICATIONS A-325-61T AND ELECTRO-GALVANIZED.

5/8"-11 SQ. HEAD BOLT WITH (2) 2" SQ. x 1/4" TH. WASHERS, (1) STANDARD. PLAIN WASHER AND HEX NUT (ALL GALVANIZED) (FURNISHED BY OTHERS)



5/8"-11 SQ. HEAD BOLT WITH (1) 2" SQ. x 1/4" TH. WASHER AND HEX NUT (ALL GALV) (FURNISHED BY OTHERS)

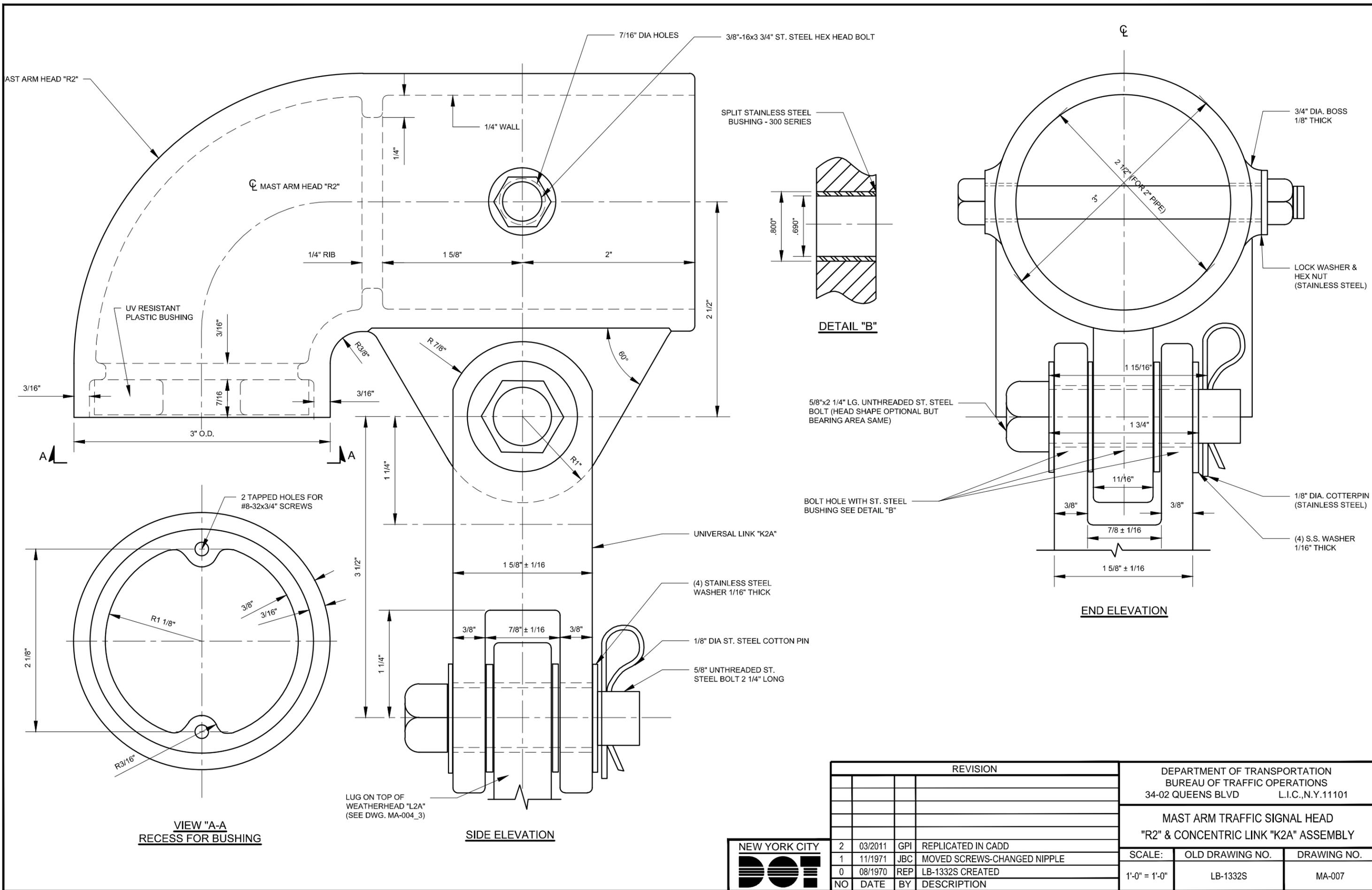
1/2"-13x4" GALV SQ. HEAD LAG SCREW (FURNISHED BY OTHERS)



REVISION			
NO	DATE	BY	DESCRIPTION
1	04/2011	GPI	REPLICATED IN CADD
0	12/1965	JBC	LB-956 CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
TRAFFIC SIGNAL MAST ARM FOR WOOD POLE "MAW-15" ASSEMBLY		
SCALE: AS NOTED	OLD DRAWING NO. LB-956	DRAWING NO. MA-006

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



VIEW "A-A"
RECESS FOR BUSHING

SIDE ELEVATION

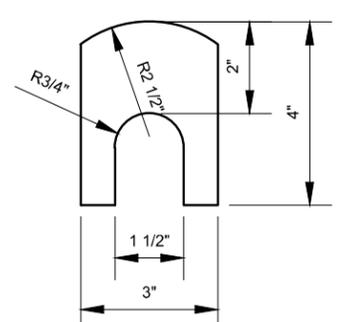
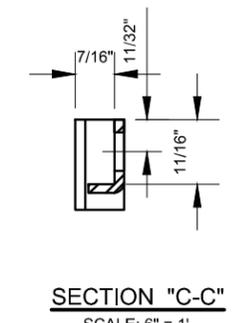
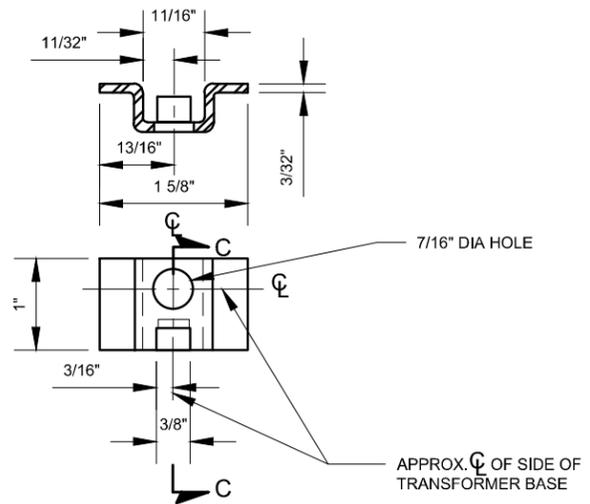
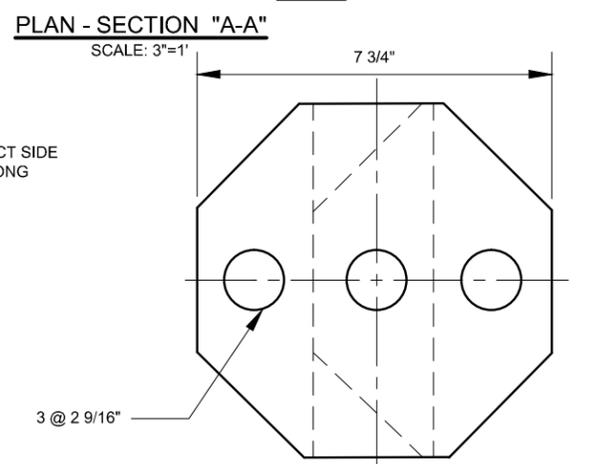
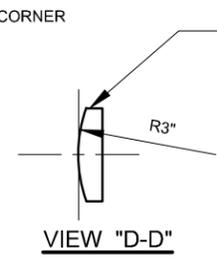
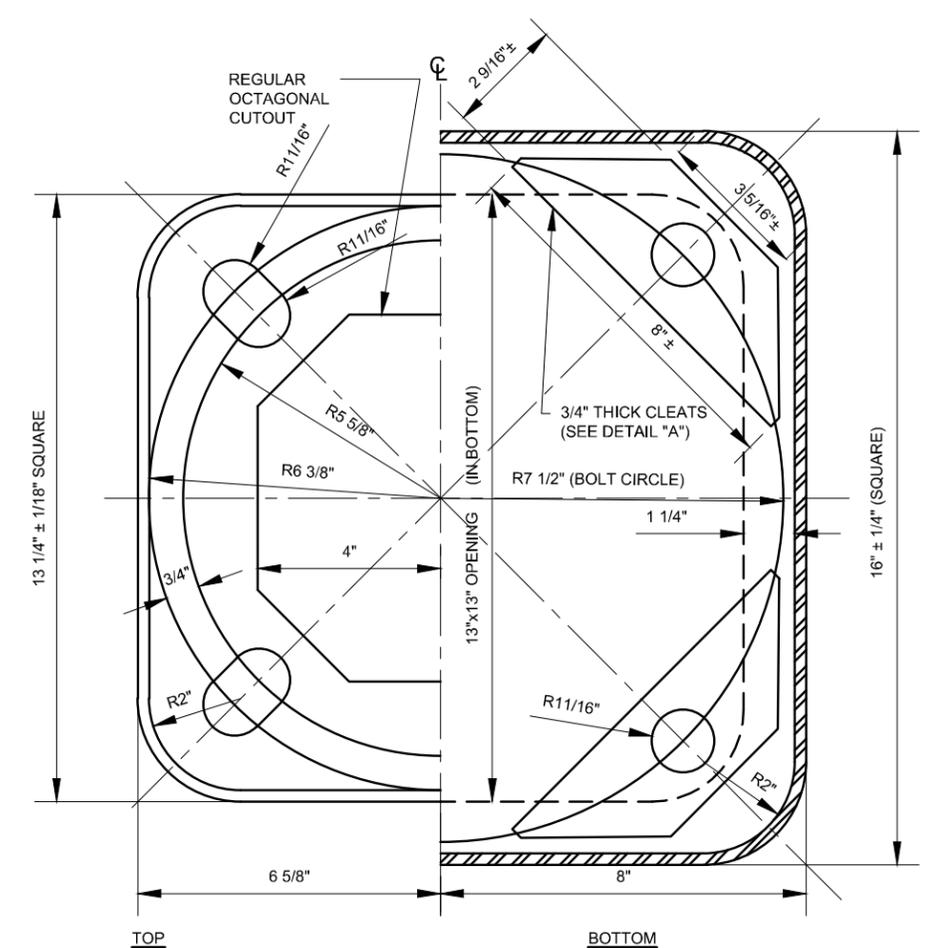
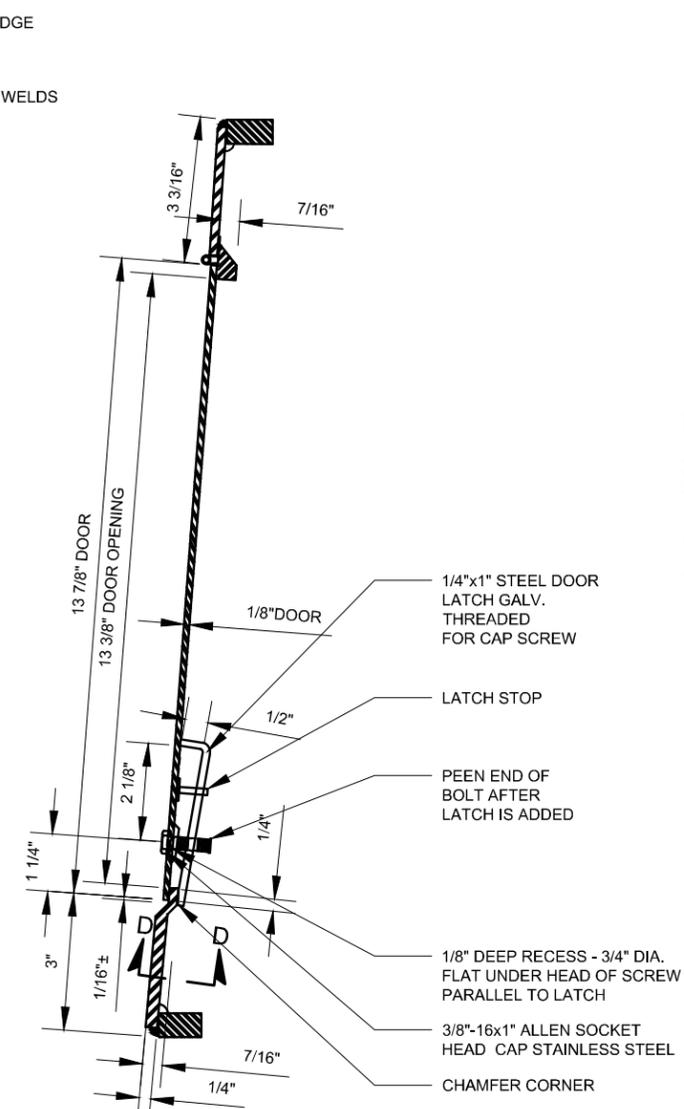
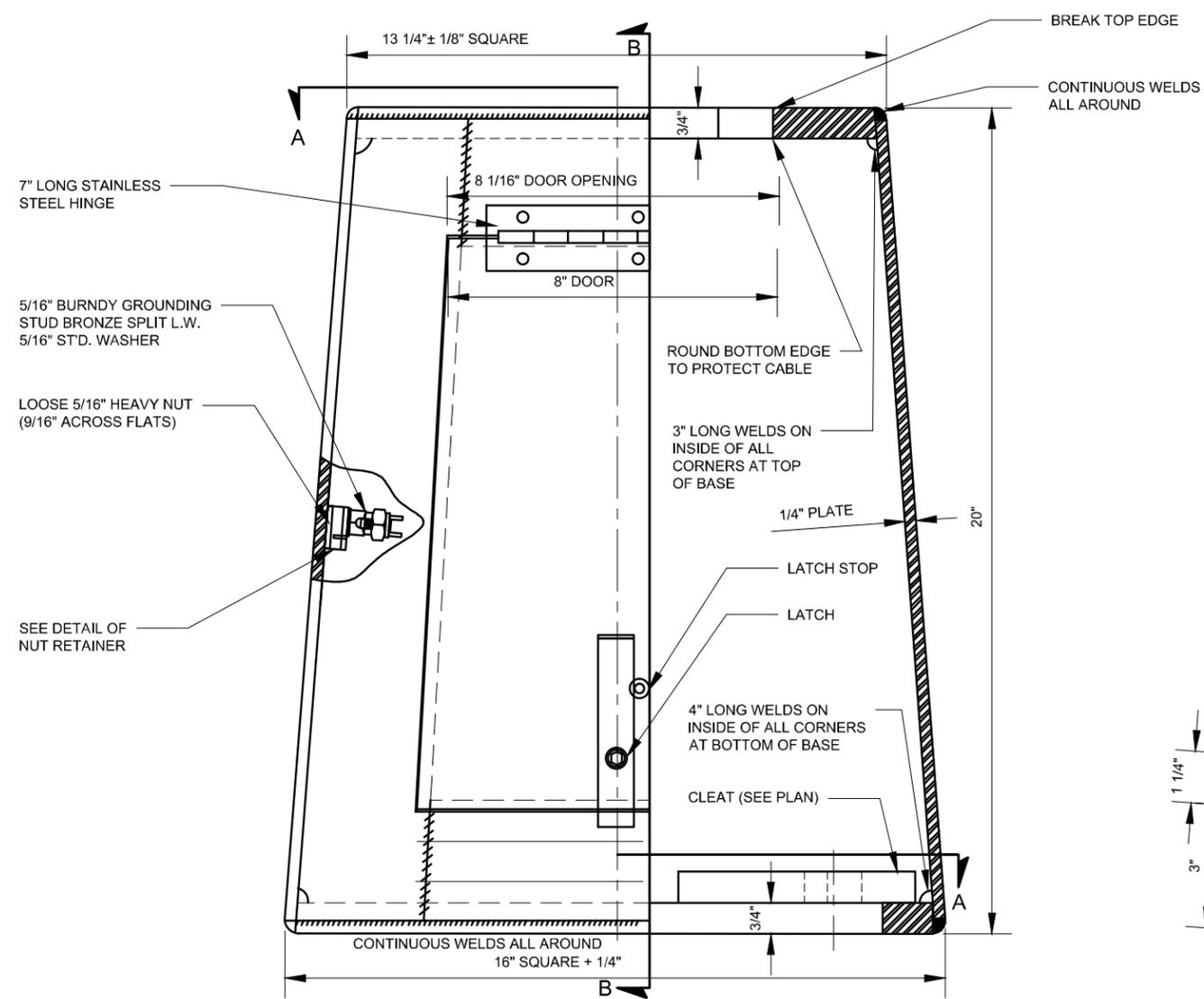
END ELEVATION

REVISION			
NO	DATE	BY	DESCRIPTION
2	03/2011	GPI	REPLICATED IN CADD
1	11/1971	JBC	MOVED SCREWS-CHANGED NIPPLE
0	08/1970	REP	LB-1332S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
MAST ARM TRAFFIC SIGNAL HEAD "R2" & CONCENTRIC LINK "K2A" ASSEMBLY		
SCALE: 1'-0" = 1'-0"	OLD DRAWING NO. LB-1332S	DRAWING NO. MA-007



NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013

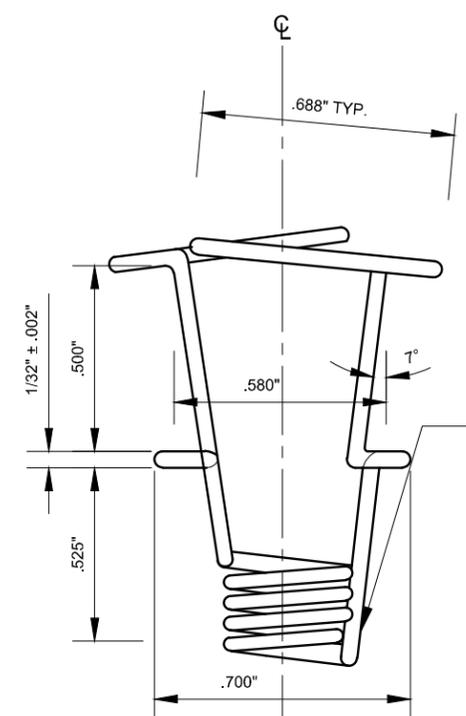


REVISION				
NO	DATE	BY	DESCRIPTION	
1	04/2011	GPI	REPLICATED IN CADD	
0	09/1966	CL	LC-306 CREATED	

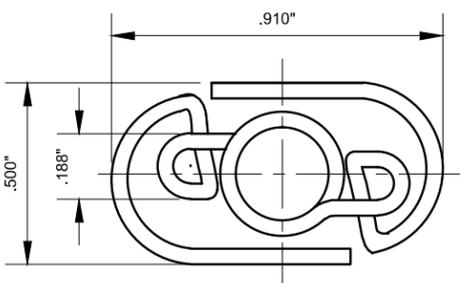
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
"M-2A" POLE TRANSFORMER BASE DETAIL		
SCALE: AS NOTED	OLD DRAWING NO. LC-306	DRAWING NO. MA-008



NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013

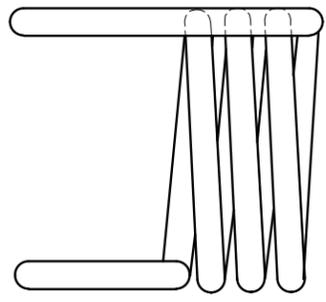


WIND FOR 1/4"-20
SCREW - 4 1/2 TURNS
MATERIAL - 300 SERIES
STAINLESS STEEL



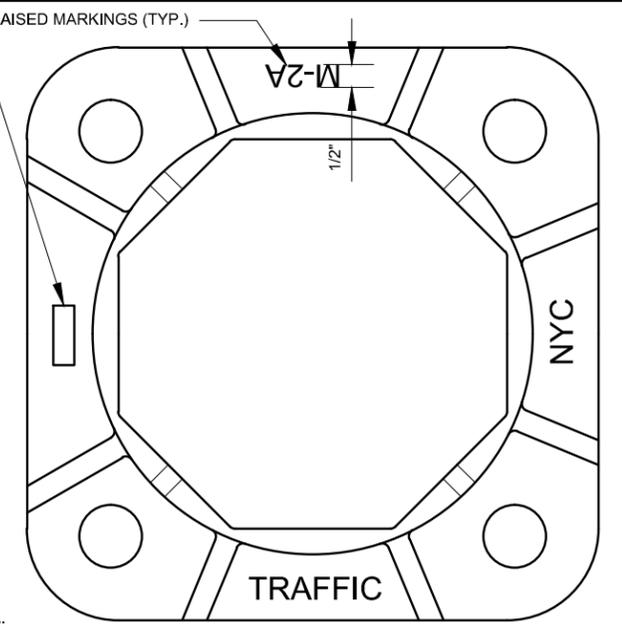
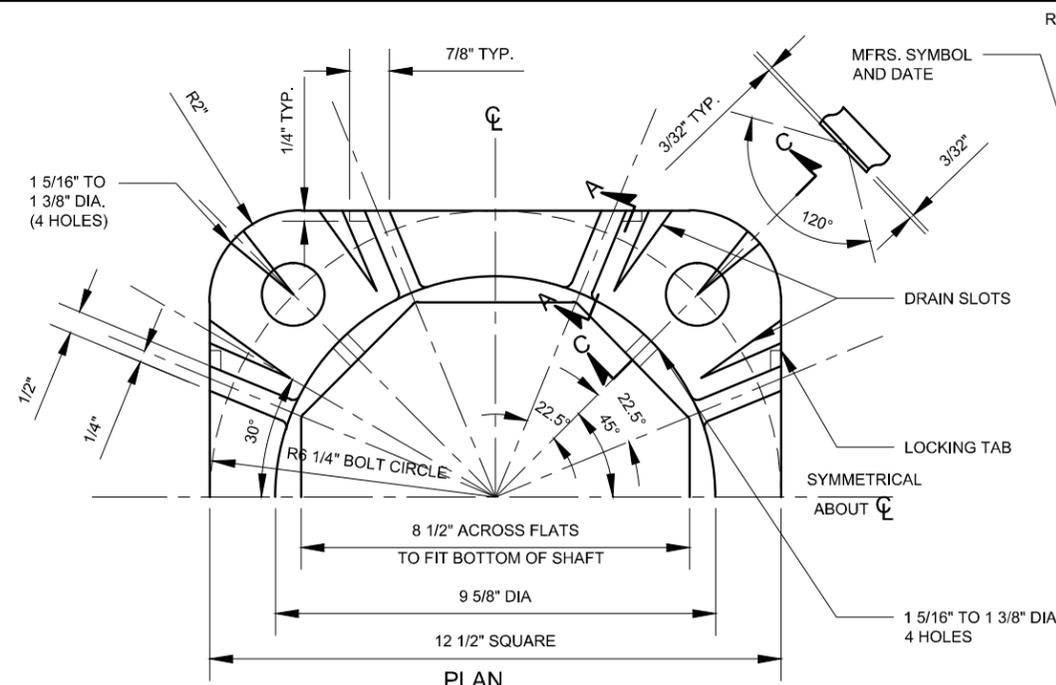
1/4" SPRING NUT
SCALE: 2" = 1"

NOT IN CONTRACT

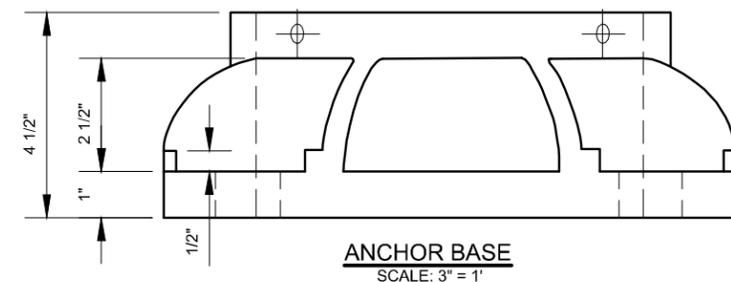
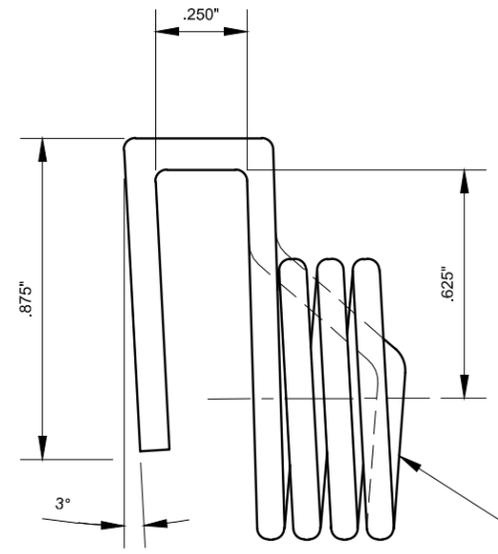


.076" DIA. WIRE-WIND
FOR 1/2"-13 SCREW-3 1/2
TURNS
MATERIAL - 300 SERIES
STAINLESS STEEL

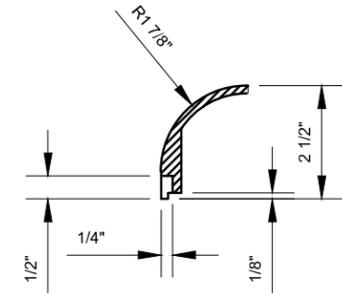
1/2" SPRING NUT
SCALE: 2" = 1"



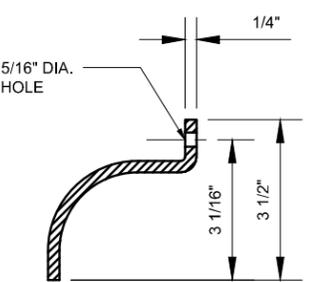
ANCHOR BASE MARKINGS
SCALE: 3" = 1"



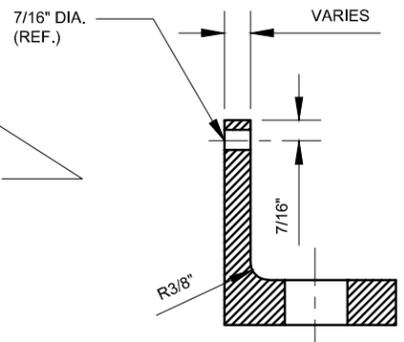
ANCHOR BASE
SCALE: 3" = 1"



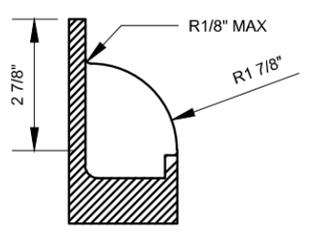
SECTION "D-D"
SCALE: 3" = 1"



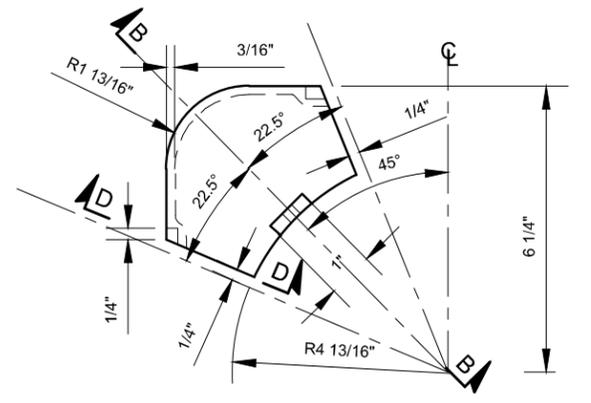
SECTION "B-B"
SCALE: 3" = 1"



SECTION "C-C"
SCALE: 3" = 1"



SECTION "A-A"
SCALE: 3" = 1"

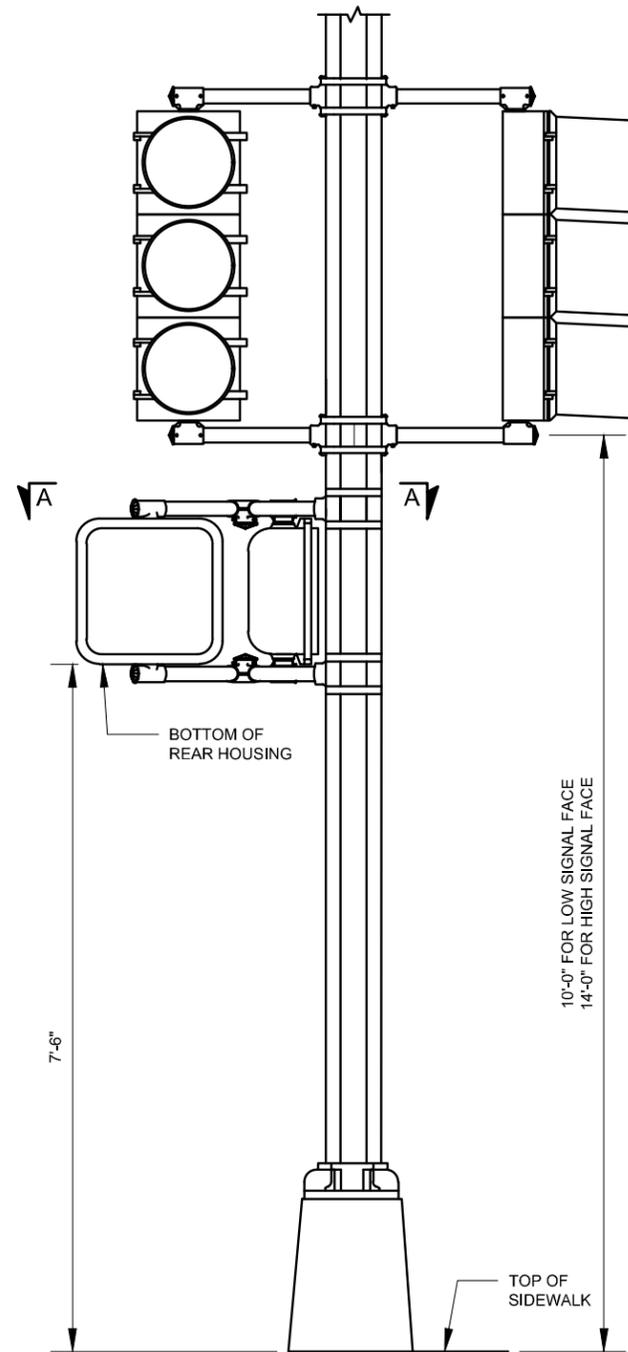


BOLT COVER "N2A"
SCALE: 3" = 1"

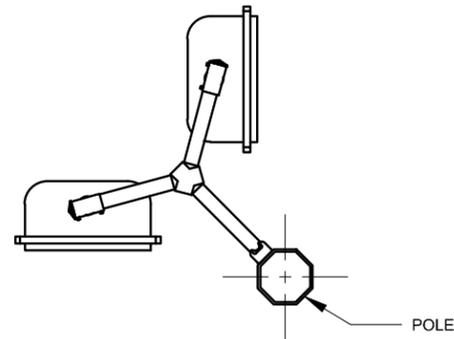


REVISION			
NO	DATE	BY	DESCRIPTION
1	04/2011	GPI	REPLICATED IN CADD
0	09/1966	BL	LC-307 CREATED

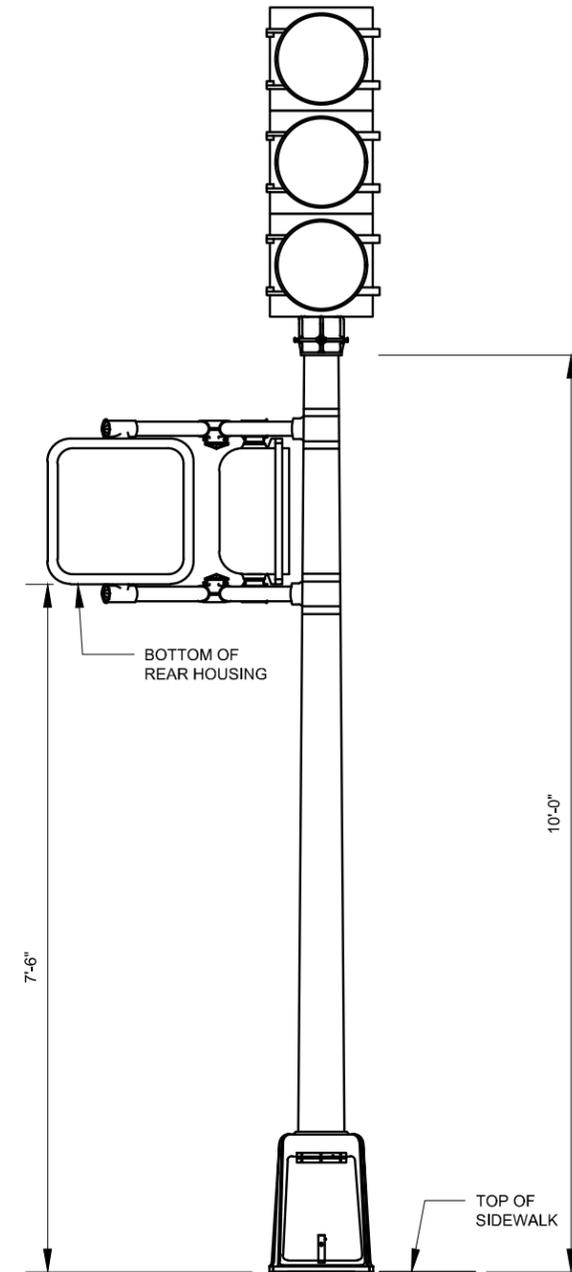
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
"M-2A" POLE ANCHOR BASE BOLT COVERING & SPRING NUTS DETAIL		
SCALE: AS NOTED	OLD DRAWING NO. LC-307	DRAWING NO. MA-009



**SIGNALS MOUNTED ON STREET LIGHT
AND "M-2A" POLES**



SECTION "A-A" ("VB-2P")
(FOR MORE DETAILS SEE DWG. SE-021)



SIGNALS MOUNTED ON "S-1a" POLE

NOTES:

1. TWO INDEPENDENT STRAPS SHALL BE INSTALLED IN EACH GROOVE OF ALL HUBS FOR ALL SIGNAL MOUNTINGS.
2. STRAPS SHALL BE STAINLESS STEEL, A.I.S.I. TYPE 301.
3. STAGGER HOLES IN POLE FOR CABLE FOR TRAFFIC SIGNALS MOUNTED AT THE SAME ELEVATION.

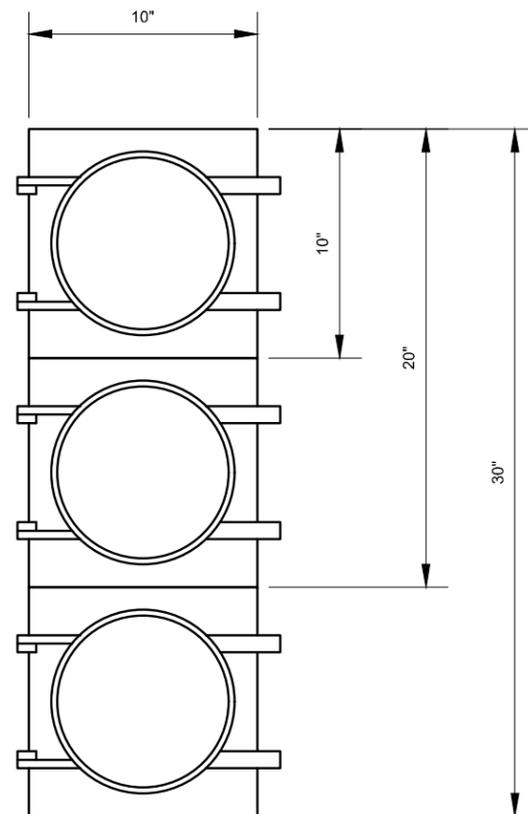
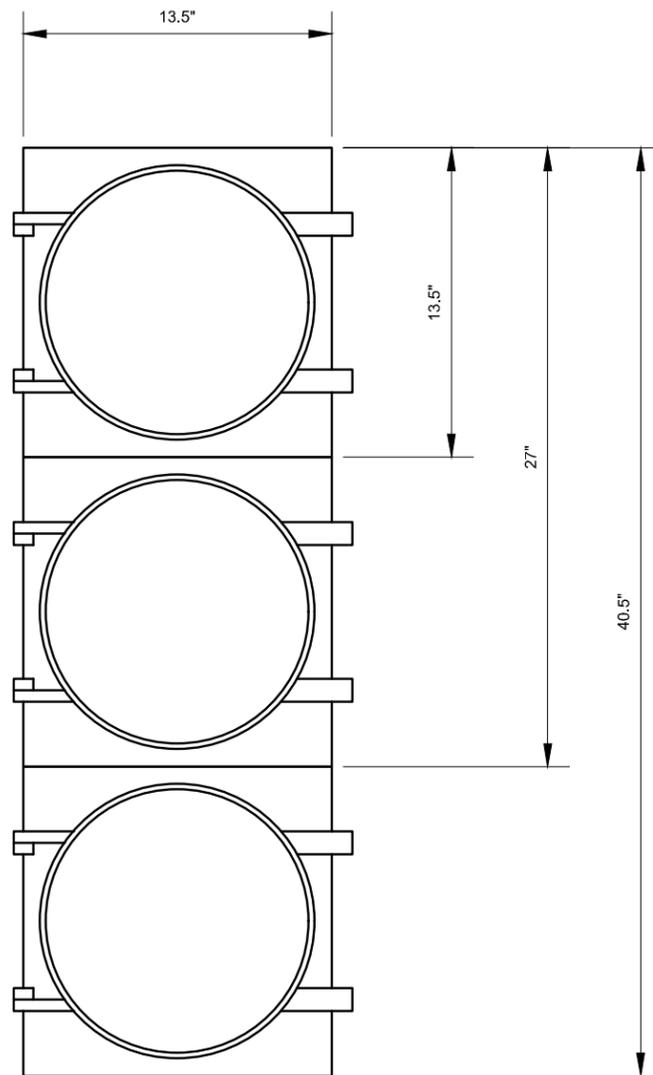
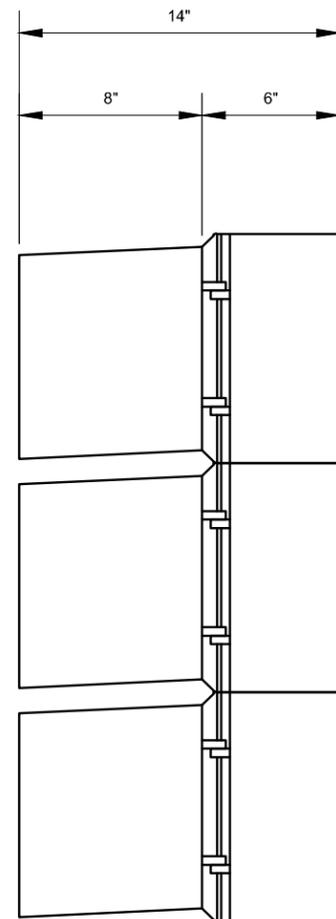
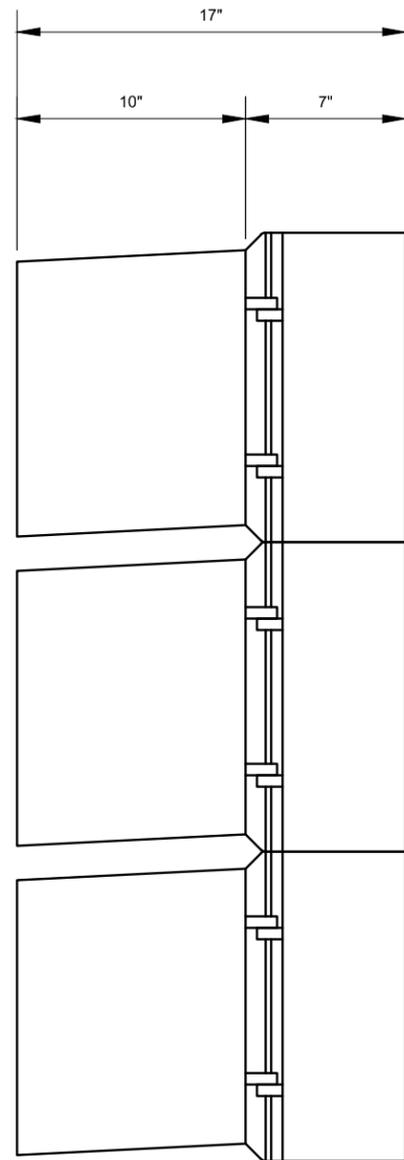
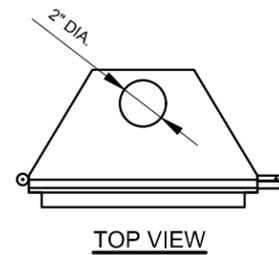
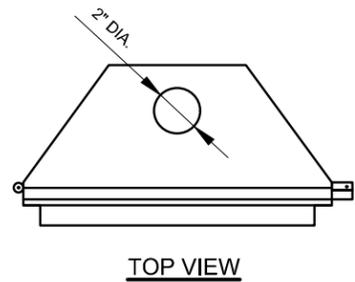


REVISION			
NO	DATE	BY	DESCRIPTION
5	07/2011	GPI	REPLICATED IN CADD
4	11/1969	RAR	REVISED
3	07/1967	ADB	REVISED AND REDRAWN
2	06/1963	GS	REVISED
1	04/1963	JBC	REVISED
0	04/1955	ADB	LG-39-S CREATED

DEPARTMENT OF TRANSPORTATION
BUREAU OF TRAFFIC OPERATIONS
34-02 QUEENS BLVD L.I.C., N.Y. 11101

**VEHICLE & PEDESTRIAN SIGNALS
MOUNTED ON POLES**

SCALE:	OLD DRAWING NO.	DRAWING NO.
1/2" = 1'-0"	LG-39-S	SE-001



12 INCH VEHICLE SIGNAL

8 INCH VEHICLE SIGNAL

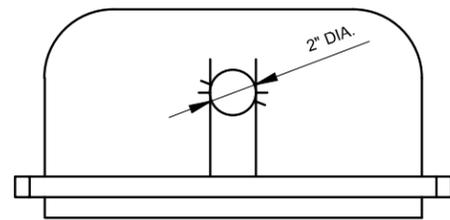
NOTES:

1. TUNNEL VISORS FOR 8" SIGNALS SHALL BE 12" LONG.
2. TUNNEL VISORS FOR 12" SIGNALS SHALL BE 16" LONG.
3. ALL SIGNALS SHALL BE LED INCANDESCANT LOOK.

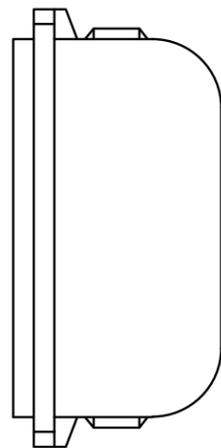


REVISION			
NO	DATE	BY	DESCRIPTION
1	07/2011	GPI	REPLICATED IN CADD
0	02/2008	JO	LB14551S CREATED

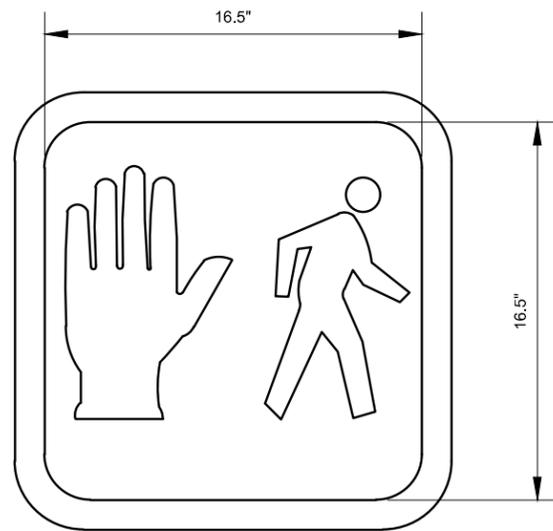
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
8" & 12" VEHICLE SIGNALS		
SCALE:	OLD DRAWING NO.	DRAWING NO.
1 1/2" = 1'-0"	LB-14551S	SE-002



TOP VIEW

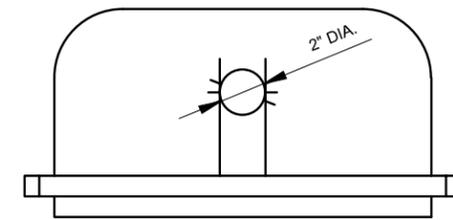


SIDE VIEW

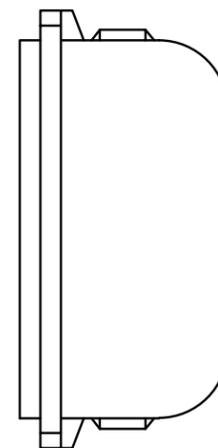


FRONT VIEW

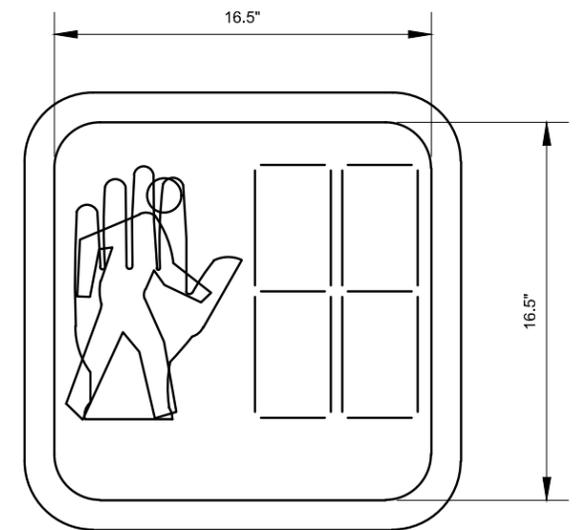
HAND/MAN PEDESTRIAN SIGNAL



TOP VIEW



SIDE VIEW



FRONT VIEW

PEDESTRIAN COUNTDOWN SIGNAL



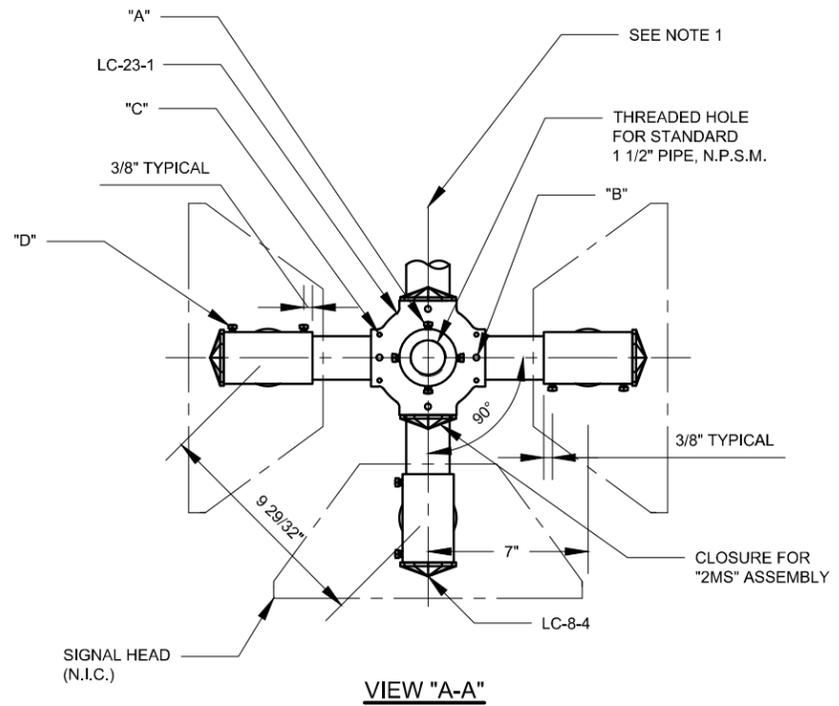
REVISION			
NO	DATE	BY	DESCRIPTION
0	07/2011	GPI	CREATED

DEPARTMENT OF TRANSPORTATION
BUREAU OF TRAFFIC OPERATIONS
34-02 QUEENS BLVD L.I.C., N.Y. 11101

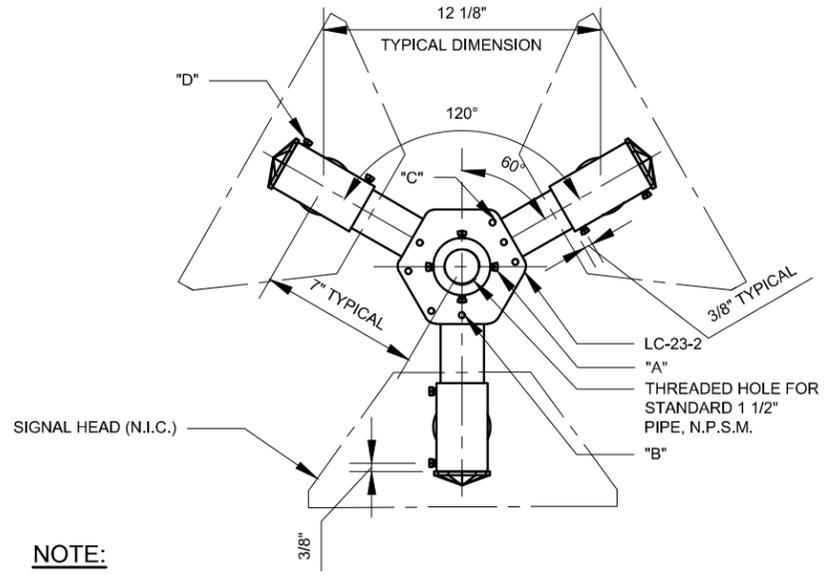
16"x16" PEDESTRIAN SIGNALS

SCALE:	OLD DRAWING NO.	DRAWING NO.
1 1/2" = 1'-0"		SE-003

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



4-WAY "MS" SPIDER ASSEMBLY (AS SHOWN)
2-WAY "MS" SPIDER ASSEMBLY (AS SHOWN)

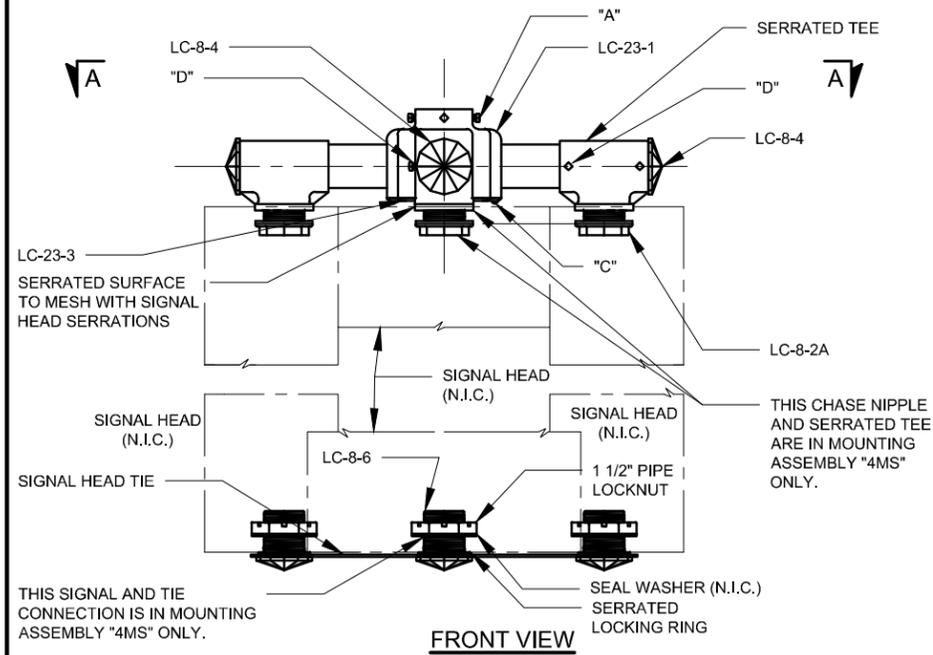


3-WAY "MS" SPIDER ASSEMBLY

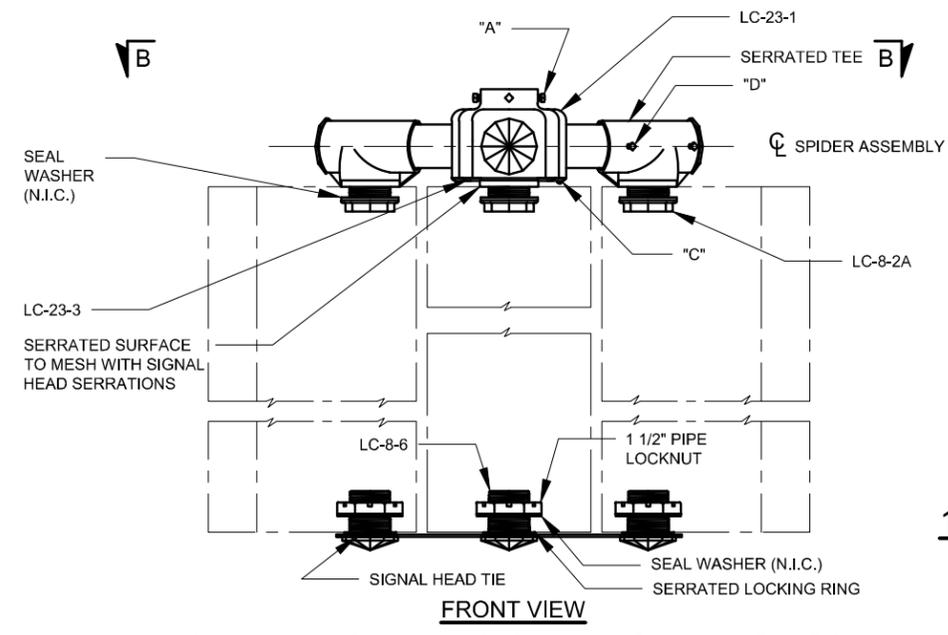
NOTE:
 "B" SETSCREWS IN BOTTOM TO CLEAR SURFACE FOR COVER

PARTS LIST					
DESCRIPTION	DRAWING NO.	QTY. REQ'D FOR ASSEMBLY TYPE			
		"1MS"	"2MS"	"3MS"	"4MS"
FOUR WAY AL. JUNCTION BOX (LC-23-1)	SE-005		1		1
THREE-WAY AL. JUNCTION BOX (LC-23-2)	SE-005			1	
AL. JUNCTION BOX COVER (LC-23-3)	SE-005		1	1	1
1 1/2"x4" LONG SCHEDULE 40 AL. PIPE, 11 1/2 NPSM 3/4" THREADED ON BOTH ENDS			2	3	4
1 1/2" DIE CAST AL. SERRATED TEE	SE-007		2	3	4
1 1/2"x3/4" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2A)	SE-009	1	2	3	4
1 1/2" DIE CAST AL. PIPE LOCKNUT	SE-010	1	2	3	4
1 1/2" DIE CAST AL. SERRATED LOCKING RING	SE-008	1	2	3	4
1 1/2"x2" LONG DIE CAST AL. CLOSURE CAP (LC-8-6)	SE-011	1	2	3	4
1 1/2"x5/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-4)	SE-011		2	3	4
NEOPRENE SEAL WASHER 2 3/4" ODx1 7/8" IDx1/8" TH (N.I.C.)		1	2	3	4
TWO-WAY SIGNAL HEAD STEEL TIE	SE-013		1		
THREE-WAY SIGNAL HEAD STEEL TIE (120 DEG.)	SE-013			1	
FOUR-WAY SIGNAL HEAD STEEL TIE	SE-013				1
1/4"-20x5/8" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW ("A")			4	4	4
1/4"-20x7/16" LONG ST. STEEL SOCKET HEAD SET SCREW ("B")			2	3	4
#10-24x5/8" LONG ST. STEEL FILLISTER HEAD MACHINE SCREW ("C")			4	4	4
1/4"-20x1/2" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW ("D")			4	6	8

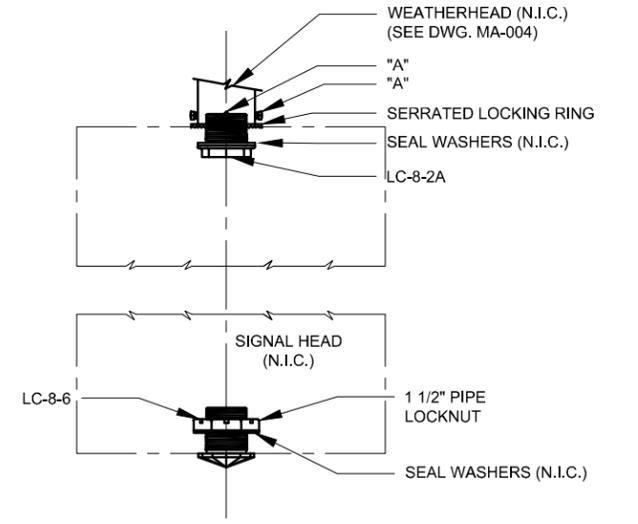
* - NOT IN CONTRACT (N.I.C.)



4-WAY MAST ARM SIGNAL MOUNTING ASSEMBLY - "4MS" (AS SHOWN)
2-WAY MAST ARM SIGNAL MOUNTING ASSEMBLY - "2MS" (AS NOTED)



3-WAY MAST ARM SIGNAL MOUNTING ASSEMBLY - "3MS"



1-WAY MAST ARM SIGNAL MOUNTING ASSEMBLY - "1MS"

NOTES:

- FOR TWO-WAY ASSEMBLY SUBSTITUTE CLOSURES LC-8-4 FOR MOUNTING BRACKETS ON THIS CENTERLINE.
- THIS DRAWING AUGMENTS DRAWING LB-636-S DATED 3-65 AND DRAWING LC-24 REVISED 3-17-65.
- SIGNAL HEADS MAY BE ROTATED AROUND CENTERS OF CONNECTIONS.
- A THIN COAT OF "MOLYKOTE ANTI-SEIZE THREAD COMPOUND" BY DOW CORNING OR APPROVED EQUAL, SHALL BE USED ON ALL THREADING IN ALUMINUM THREADED CONNECTIONS.



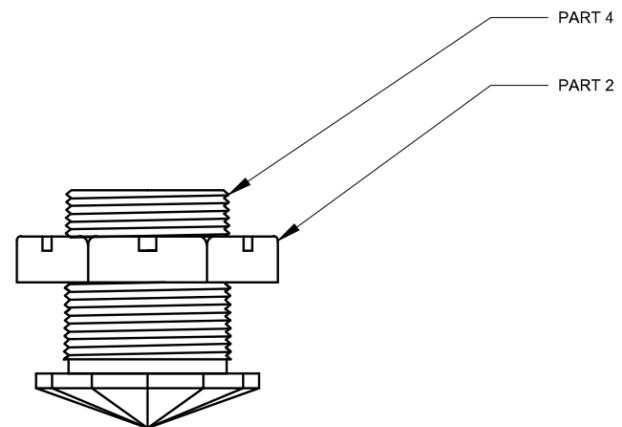
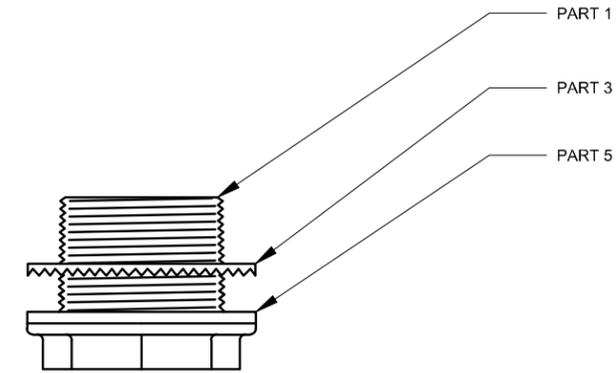
REVISION			
NO	DATE	BY	DESCRIPTION
7	09/2011	GPI	REPLICATED IN CADD
6	5/2006	NM	REVISED
5	10/70	CHIU	REVISED AND REDRAWN
4	03/65	GS	
3	11/64	GS	
2	12/63	GS	
1	05/58	JBC	
0	11/1954	JBC	LC-24 CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
MAST ARM TRAFFIC SIGNAL MOUNTING ASSEMBLIES "1MS", "2MS", "3MS", "4MS"		
SCALE:	OLD DRAWING NO.	DRAWING NO.
1 1/2" = 1'-0"	LC-24	SE-004_1

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013

PARTS LIST			
PART	DESCRIPTION	DRAWING NO.	QTY.
1	1 1/2"x1 3/4" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2A)	SE-009	1
2	1 1/2" DIE CAST AL. PIPE LOCKNUT	SE-010	1
3	1 1/2" DIE CAST AL. SERRATED LOCKING RING	SE-008	1
4	1 1/2"x2" LONG DIE CAST AL. CLOSURE CAP (LC-8-6)	SE-011	1
5	NEOPRENE SEAL WASHER 2 3/4"ODx1/8"TH (N.I.C*)		1

* - NOT IN CONTRACT



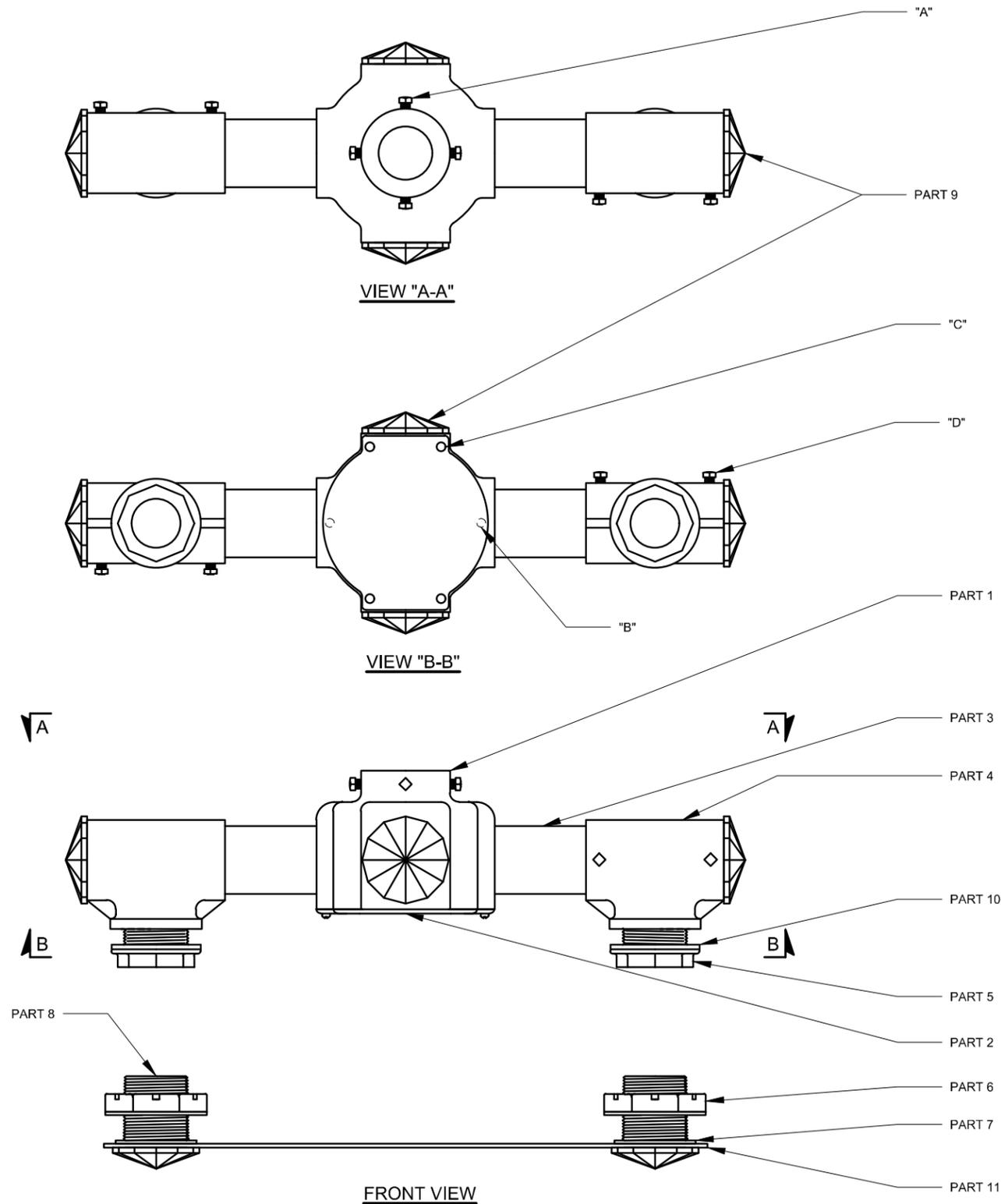
FRONT VIEW

ONE-WAY MAST ARM SIGNAL MOUNTING ASSEMBLY



REVISION			
NO	DATE	BY	DESCRIPTION
0	07/2011	GPI	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
MAST ARM TRAFFIC SIGNAL MOUNTING ASSEMBLY "1MS" - DETAIL		
SCALE:	OLD DRAWING NO.	DRAWING NO.
6" = 1'-0"		SE-004_2



TWO-WAY MAST ARM SIGNAL MOUNTING ASSEMBLY

PARTS LIST			
PART	DESCRIPTION	DRAWING NO.	QTY.
1	FOUR-WAY AL. JUNCTION BOX (LC-23-1)	SE-005	1
2	AL. JUNCTION BOX COVER (LC-23-3)	SE-005	1
3	1 1/2"x4" LONG SCHEDULE 40 AL. PIPE, 11 1/2 NPSM 3/4" THREADED ON BOTH ENDS		2
4	1 1/2" DIE CAST AL. SERRATED TEE	SE-007	2
5	1 1/2"x1 3/4" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2A)	SE-009	2
6	1 1/2" DIE CAST AL. PIPE LOCKNUT	SE-010	2
7	1 1/2" DIE CAST AL. SERRATED LOCKING RING	SE-008	2
8	1 1/2"x2" LONG DIE CAST AL. CLOSURE CAP (LC-8-6)	SE-011	2
9	1 1/2"x5/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-4)	SE-011	4
10	NEOPRENE SEAL WASHER 2 3/4"ODx1 7/8"IDx1/8"TH (N.I.C.*)		2
11	TWO-WAY SIGNAL HEAD STEEL TIE	SE-013	2
"A"	1/4"-20x5/8" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		4
"B"	1/4"-20x7/16" LONG ST. STEEL SOCKET HEAD SET SCREW		2
"C"	#10-24x5/8" LONG ST. STEEL FILLISTER HEAD MACHINE SCREW		4
"D"	1/4"-20x1/2" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		4

*N.I.C.-(NOT SUPPLIED)

NOTES:

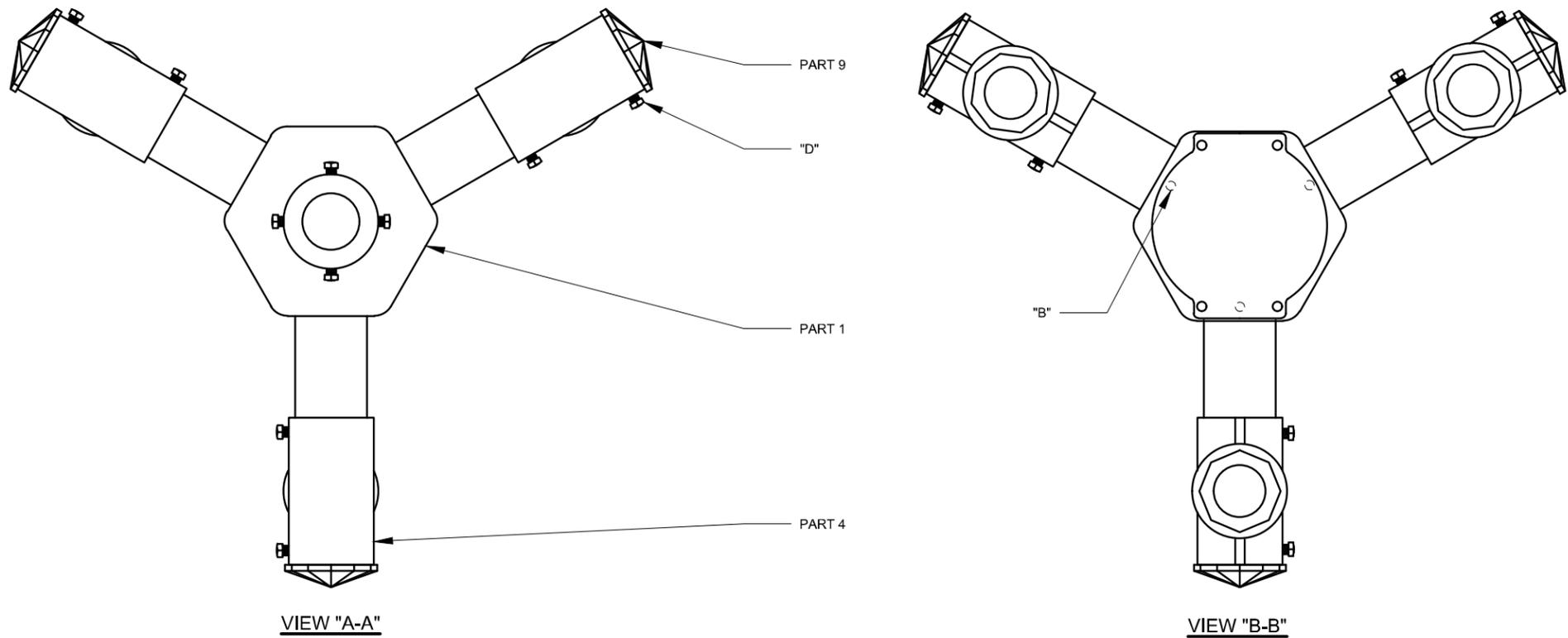
- THE EXTENDED TWO-WAY MAST ARM SIGNAL MOUNTING ASSEMBLY "E2MS" IS SIMILAR TO THE "2MS" ASSEMBLY EXCEPT THAT:
- 1. THE ALUMINUM PIPE MEASURES 1 1/2"x8 3/4" (INSTEAD OF 4" IN "2MS")
- 2. THE EXTENDED TWO-WAY SIGNAL HEAD STEEL TIE IS 23" CENTER TO CENTER (INSTEAD OF 14" IN "2MS")

FOR "E2MS" PARTS LIST SEE DWG. SE-004_6.



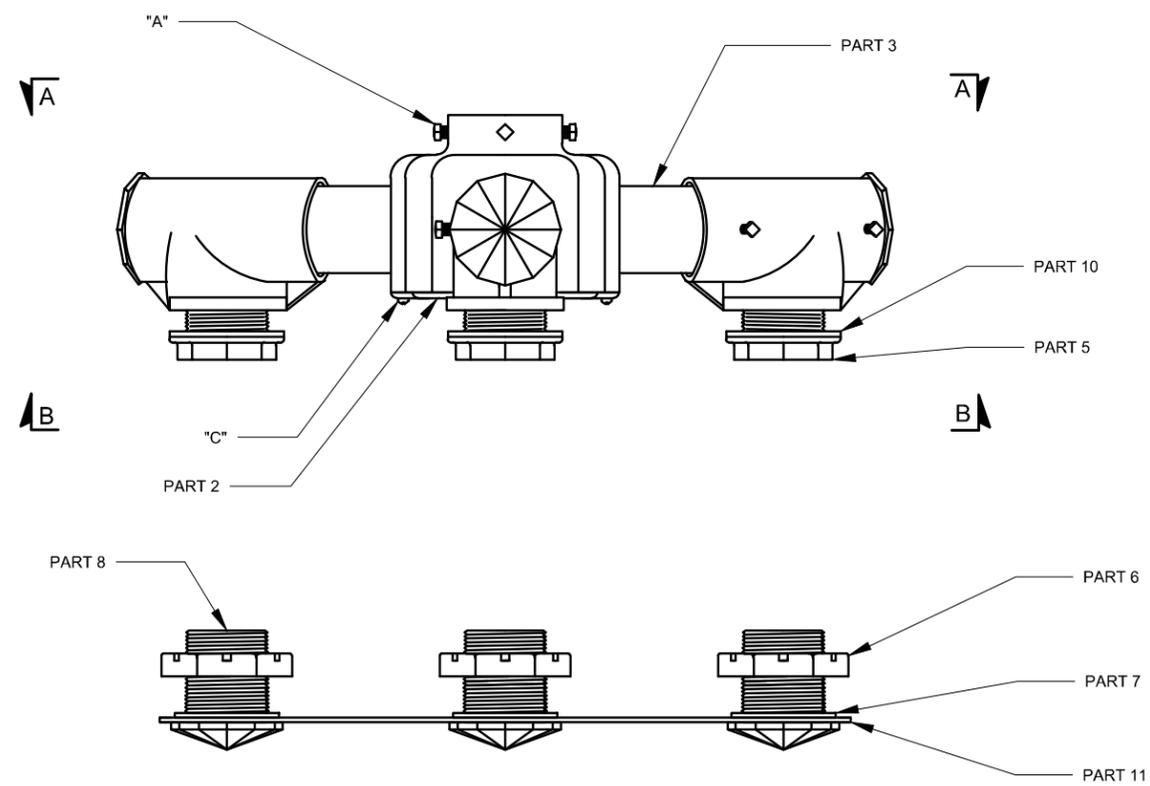
REVISION			
NO	DATE	BY	DESCRIPTION
0	07/2011	GPI	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C.,N.Y.11101		
MAST ARM TRAFFIC SIGNAL MOUNTING ASSEMBLY "2MS" - DETAIL		
SCALE:	OLD DRAWING NO.	DRAWING NO.
3" = 1'-0"		SE-004_3



PARTS LIST			
PART	DESCRIPTION	DRAWING NO.	QTY.
1	THREE-WAY AL. JUNCTION BOX (LC-23-2)	SE-005	1
2	AL. JUNCTION BOX COVER (LC-23-3)	SE-005	1
3	1 1/2"x4" LONG SCHEDULE 40 AL. PIPE, 3 11 1/2 NPSM 3/4" THREADED ON BOTH ENDS		3
4	1 1/2" DIE CAST AL. SERRATED TEE	SE-007	3
5	1 1/2"x1 3/4" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2A)	SE-009	3
6	1 1/2" DIE CAST AL. PIPE LOCKNUT	SE-010	3
7	1 1/2" DIE CAST AL. SERRATED LOCKING RING	SE-008	3
8	1 1/2"x2" LONG DIE CAST AL. CLOSURE CAP (LC-8-6)	SE-011	3
9	1 1/2"x5/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-4)	SE-011	3
10	NEOPRENE SEAL WASHER 2 3/4"ODx1 7/8"IDx1/8"TH (N.I.C.*)		3
11	THREE-WAY SIGNAL HEAD STEEL TIE (120 DEG.)	SE-013	1
"A"	1/4"-20x5/8" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		4
"B"	1/4"-20x7/16" LONG ST. STEEL SOCKET HEAD SET SCREW		3
"C"	#10-24x5/8" LONG ST. STEEL FILLISTER HEAD MACHINE SCREW		4
"D"	1/4"-20x1/2" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		6

*N.I.C.-(NOT SUPPLIED)



FRONT VIEW

THREE-WAY MAST ARM SIGNAL MOUNTING ASSEMBLY

NOTES:

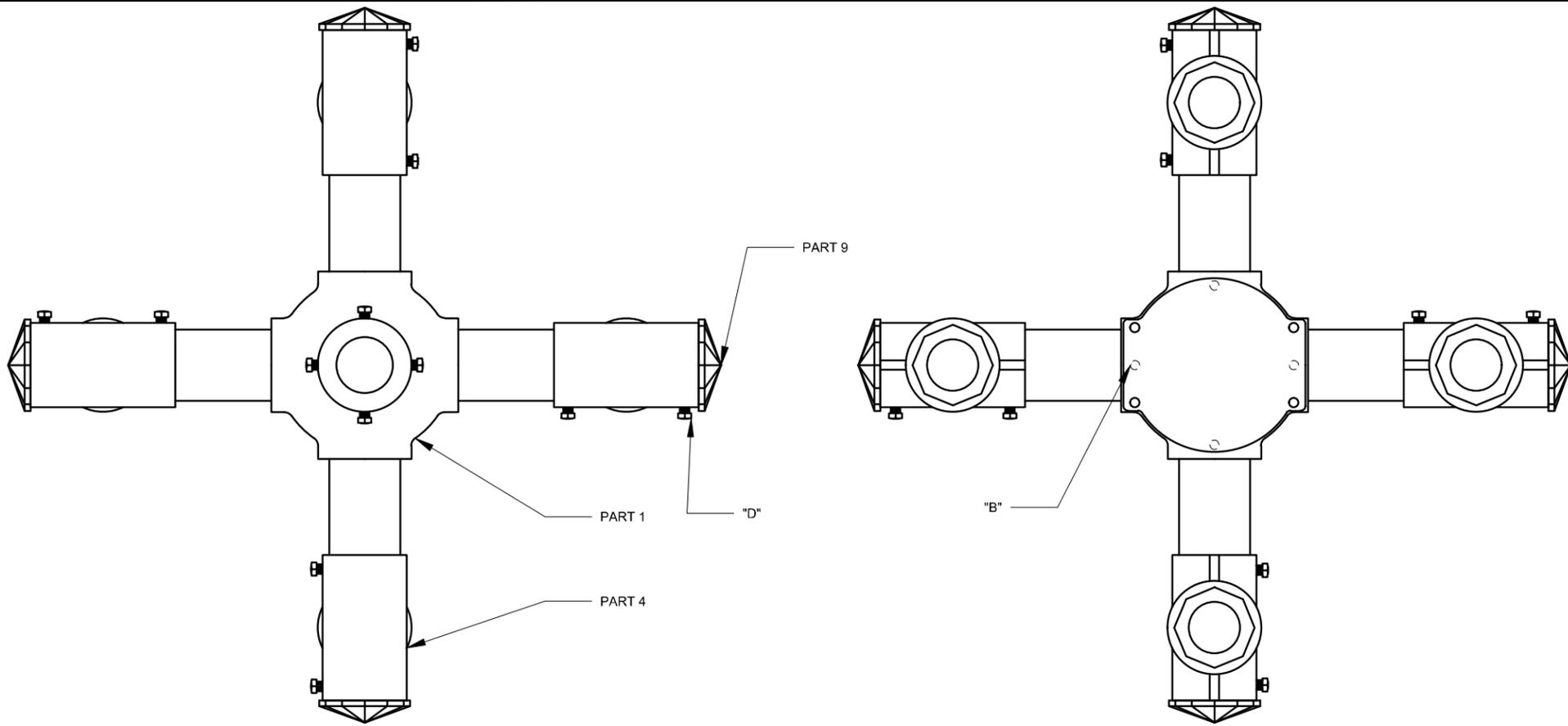
- THE EXTENDED THREE-WAY MAST ARM SIGNAL MOUNTING ASSEMBLY "E3MS" IS SIMILAR TO THE "3MS" ASSEMBLY EXCEPT THAT:
1. THE ALUMINUM PIPE MEASURES 1 1/2"x8 3/4" (INSTEAD OF 4" IN "3MS")
 2. THE EXTENDED THREE-WAY SIGNAL HEAD STEEL TIE IS 23" CENTER TO CENTER (INSTEAD OF 14" IN "2MS")

FOR "E3MS" PARTS LIST SEE DWG. SE-004_6.



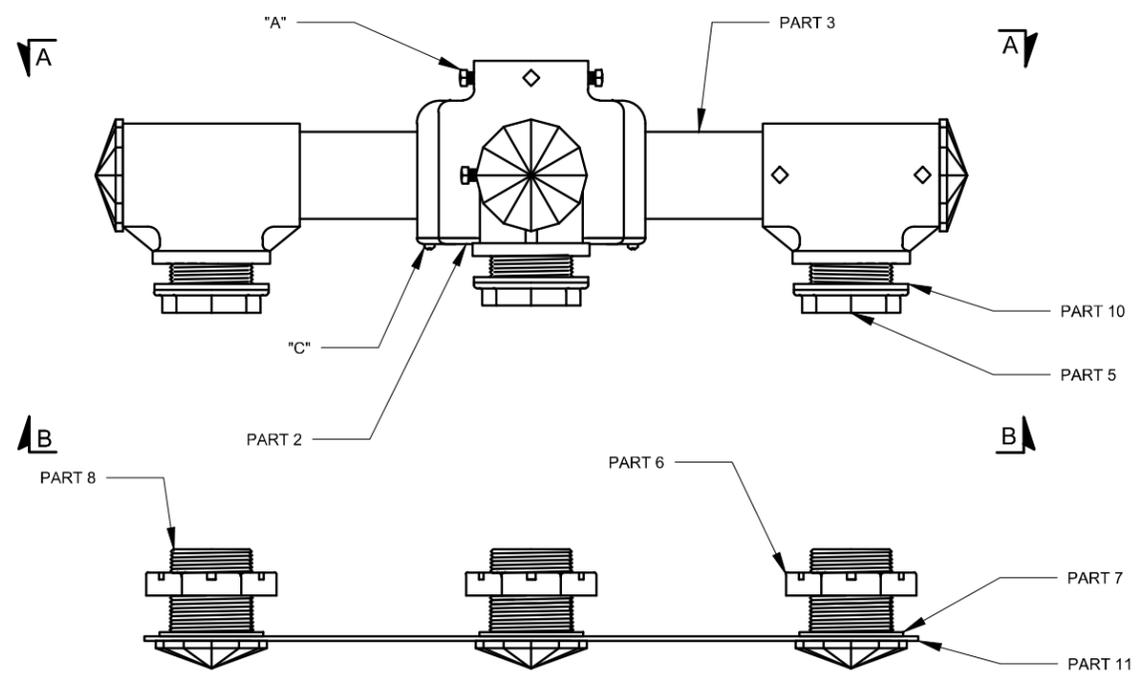
REVISION			
NO	DATE	BY	DESCRIPTION
0	07/2011	GPI	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C.,N.Y.11101		
MAST ARM TRAFFIC SIGNAL MOUNTING ASSEMBLY "3MS" - DETAIL		
SCALE: 3" = 1'-0"	OLD DRAWING NO.	DRAWING NO. SE-004_4



VIEW "A-A"

VIEW "B-B"



FRONT VIEW

FOUR-WAY MAST ARM SIGNAL MOUNTING ASSEMBLY

PARTS LIST

PART	DESCRIPTION	DRAWING NO.	QTY.
1	FOUR-WAY AL. JUNCTION BOX (LC-23-1)	SE-005	1
2	AL. JUNCTION BOX COVER (LC-23-3)	SE-005	1
3	1 1/2"x4" LONG SCHEDULE 40 AL. PIPE, 11 1/2 NPSM 3/4" THREADED ON BOTH ENDS		4
4	1 1/2" DIE CAST AL. SERRATED TEE	SE-007	4
5	1 1/2"x1 3/4" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2A)	SE-009	4
6	1 1/2" DIE CAST AL. PIPE LOCKNUT	SE-010	4
7	1 1/2" DIE CAST AL. SERRATED LOCKING RING	SE-008	4
8	1 1/2"x2" LONG DIE CAST AL. CLOSURE CAP (LC-8-6)	SE-011	4
9	1 1/2"x5/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-4)	SE-011	4
10	NEOPRENE SEAL WASHER 2 3/4"ODx1 7/8"IDx1/8"TH (N.I.C.*)		4
11	FOUR-WAY SIGNAL HEAD STEEL TIE	SE-013	1
"A"	1/4"-20x5/8" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		4
"B"	1/4"-20x7/16" LONG ST. STEEL SOCKET HEAD SET SCREW		4
"C"	#10-24x5/8" LONG ST. STEEL FILLISTER HEAD MACHINE SCREW		4
"D"	1/4"-20x1/2" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		8

*N.I.C.-(NOT SUPPLIED)

NOTES:

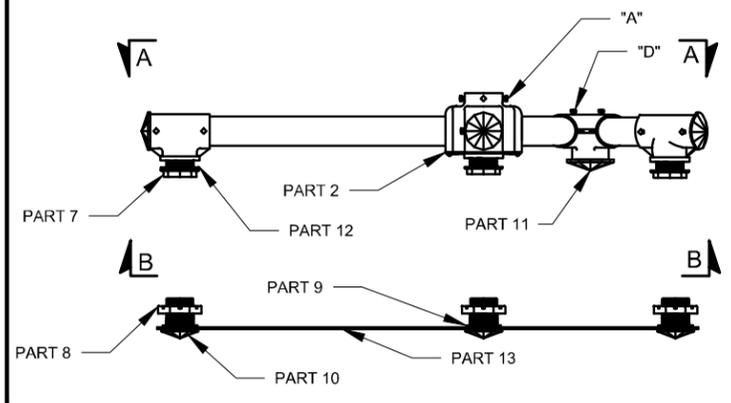
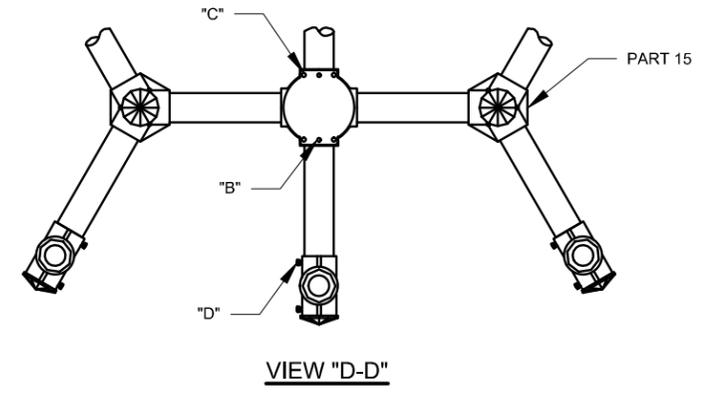
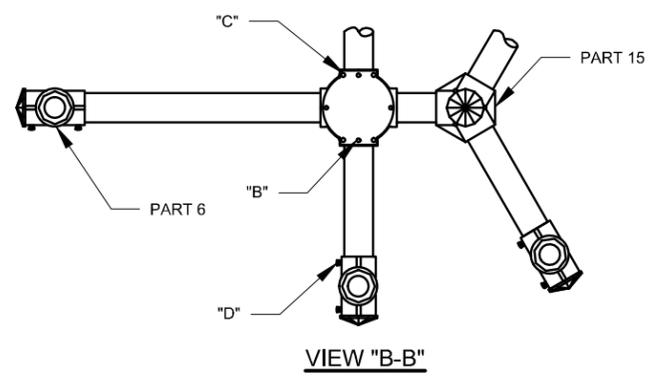
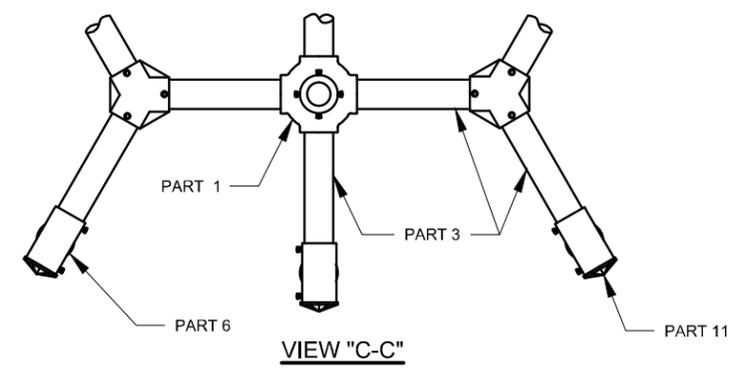
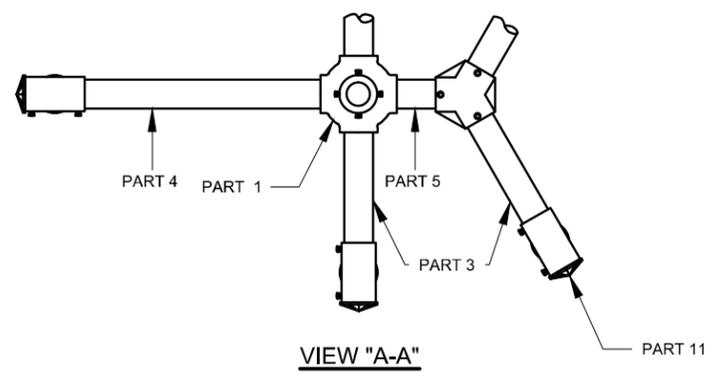
THE EXTENDED FOUR-WAY MAST ARM SIGNAL MOUNTING ASSEMBLY "E4MS" IS SIMILAR TO THE "4MS" ASSEMBLY EXCEPT THAT:
 1. THE ALUMINUM PIPE MEASURES 1 1/2"x8 3/4" (INSTEAD OF 4" IN "4MS")
 2. THE EXTENDED FOUR-WAY SIGNAL HEAD STEEL TIE IS 23" CENTER TO CENTER (INSTEAD OF 14" IN "2MS")
 FOR "E2MS" PARTS LIST SEE DWG. SE-004_6.



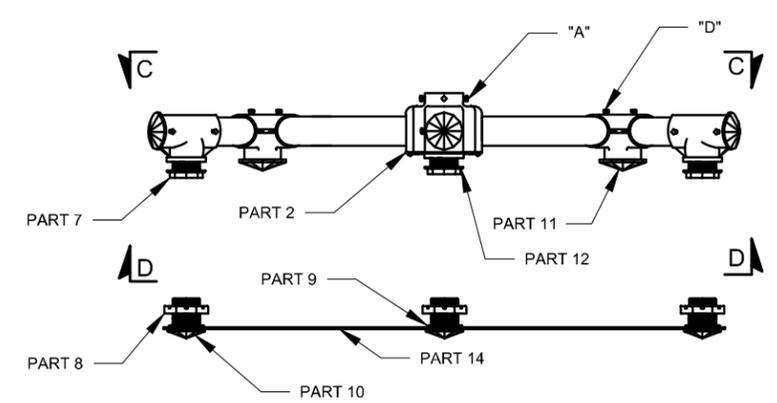
REVISION			
0	07/2011	GPI	CREATED
NO	DATE	BY	DESCRIPTION

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C.,N.Y.11101		
MAST ARM TRAFFIC SIGNAL MOUNTING ASSEMBLY "4MS" - DETAIL		
SCALE:	OLD DRAWING NO.	DRAWING NO.
3" = 1'-0"		SE-004_5

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



**EXTENDED FIVE-WAY MAST ARM
SIGNAL MOUNTING ASSEMBLY**



**EXTENDED SIX-WAY MAST ARM
SIGNAL MOUNTING ASSEMBLY**

PARTS LIST

PART NO.	DESCRIPTION	DRAWING NO.	QTY. REQ'D FOR ASSEMBLY TYPE				
			"E2MS"	"E3MS"	"E4MS"	"E5MS"	"E6MS"
1	FOUR WAY AL. JUNCTION BOX (LC-23-1)	SE-005	1		1	1	1
2	AL. JUNCTION BOX (LC-23-3)	SE-005	1	1	1	1	1
3	1 1/2"x8 3/4" LONG SCHEDULE 40 AL. PIPE, 11 1/2 NPSM 3/4" THREADED ON BOTH ENDS		2	3	4	4	6
4	1 1/2"x17" LONG SCHEDULE 40 AL. PIPE, 11 1/2 NPSM 3/4" THREADED ON BOTH ENDS					1	
5	1 1/2"x4" LONG SCHEDULE 40 AL. PIPE, 11 1/2 NPSM 3/4" THREADED ON BOTH ENDS					1	
6	1 1/2" DIE CAST AL. SERRATED TEE	SE-007	2	3	4	5	6
7	1 1/2"x3/4" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2A)	SE-009	2	3	4	5	6
8	1 1/2" DIE CAST AL. PIPE LOCKNUT	SE-010	2	3	4	5	6
9	1 1/2" DIE CAST AL. SERRATED LOCKING RING	SE-008	2	3	4	5	6
10	1 1/2"x2" LONG DIE CAST AL. CLOSURE CAP (LC-8-6)	SE-011	2	3	4	5	6
11	1 1/2"x5/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-4)	SE-011	2	3	4	5	6
12	NEOPRENE SEAL WASHER 2 3/4" ODx1 7/8" IDx1/8" TH (N.I.C*)		2	3	4	5	6
13	EXTENDED FIVE-WAY SIGNAL HEAD STEEL TIE	SE-013				1	
14	EXTENDED SIX-WAY SIGNAL HEAD STEEL TIE	SE-013					1
15	1 1/2" 120 DEG. DIE CAST AL. "Y" CONNECTOR WITH SIDE OUTLET	SE-020				1	2
"A"	1/4"-20x5/8" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW ("A")		4	4	4	4	4
"B"	1/4"-20x7/16" LONG ST. STEEL SOCKET HEAD SET SCREW ("B")		2	3	4	4	4
"C"	#10-24x5/8" LONG ST. STEEL FILLISTER HEAD MACHINE SCREW ("C")		4	4	4	4	4
"D"	1/4"-20x1/2" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW ("D")		4	6	8	13	18
	THREE-WAY AL. JUNCTION BOX (LC-23-2)**	SE-005		1			
	EXTENDED TWO-WAY SIGNAL HEAD STEEL TIE***	SE-013	1				
	EXTENDED THREE-WAY SIGNAL HEAD STEEL TIE (120 DEG.)**	SE-013		1			
	EXTENDED FOUR-WAY SIGNAL HEAD STEEL TIE ****	SE-013			1		

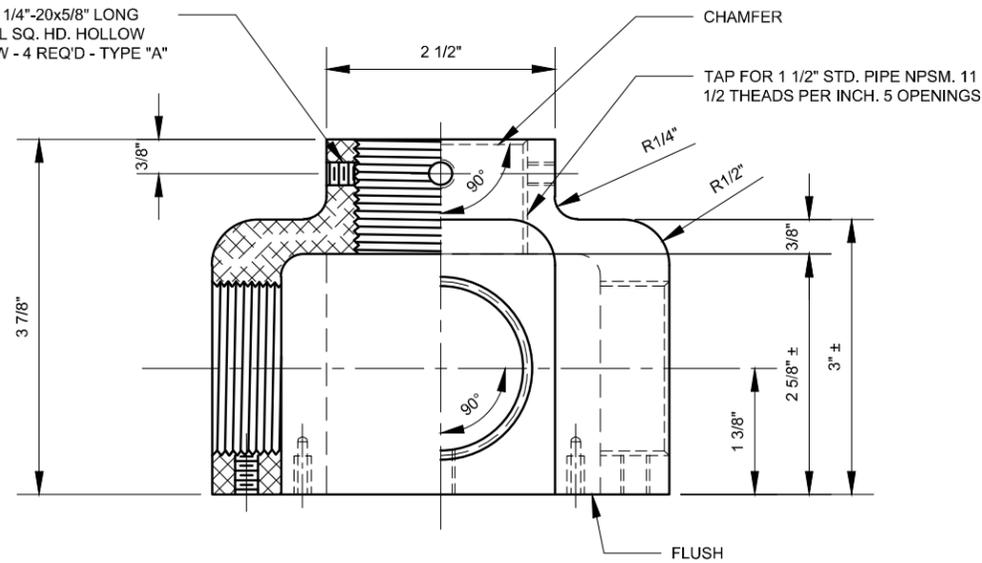
* - NOT IN CONTRACT (N.I.C)
 ** - DRAWING FOR "E3MS" ASSEMBLY IS SIMILAR TO DRAWING FOR "3MS" ASSEMBLY (SE-004_4)
 *** - DRAWING FOR "E2MS" ASSEMBLY IS SIMILAR TO DRAWINGS FOR "2MS" ASSEMBLY (SE-004_3)
 **** - DRAWING FOR "E4MS" ASSEMBLY IS SIMILAR TO DRAWINGS FOR "4MS" ASSEMBLY (SE-004_5)

REVISION			
NO	DATE	BY	DESCRIPTION
0	07/2011	GPI	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
MAST ARM TRAFFIC SIGNAL MOUNTING ASSEMBLIES "E5MS", "E6MS"		
SCALE:	OLD DRAWING NO.	DRAWING NO.
1" = 1'-0"		SE-004_6

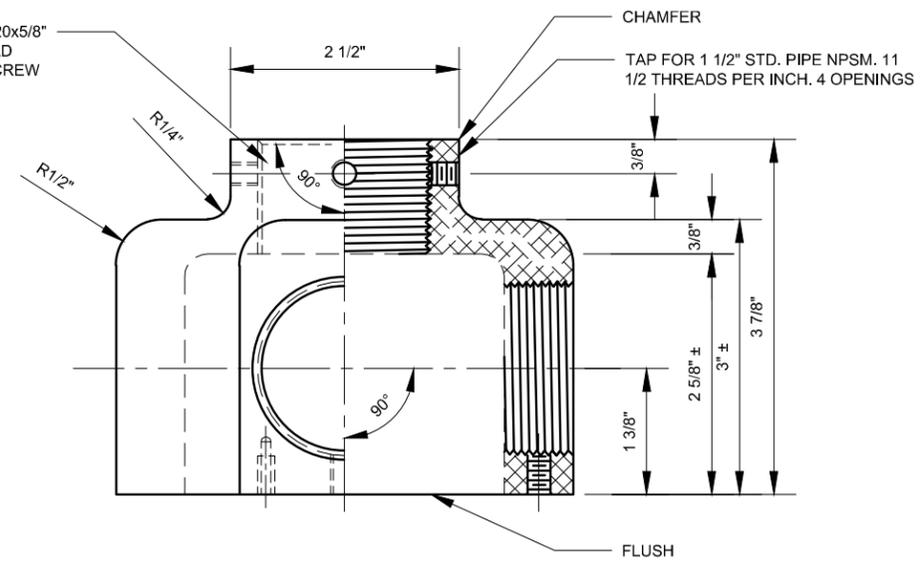


DRILL & TAP FOR 1/4"-20x5/8" LONG STAINLESS STEEL SQ. HD. HOLLOW NOSE SET SCREW - 4 REQ'D - TYPE "A"



SECTION ELEVATION "A-A"

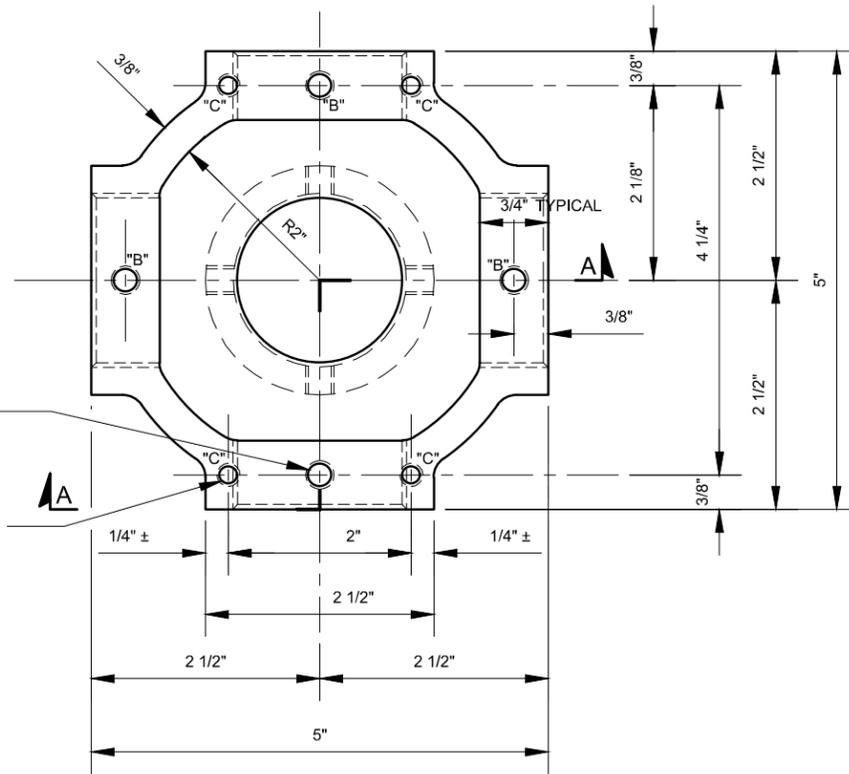
DRILL & TAP FOR 1/4"-20x5/8" LG. ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW TYPE "A" - 4 REQ'D



SECTION ELEVATION "B-B"

DRILL & TAP FOR 1/4"-20x7/16" LONG STAINLESS STEEL SOCKET HD. SET SCREW - 4 REQ'D - TYPE "B"

DRILL & TOP FOR #10-24x5/8" LG. ST. STEEL FILLISTER HEAD MACHINE SCREWS - TYPE "C" - 4 REQ'D

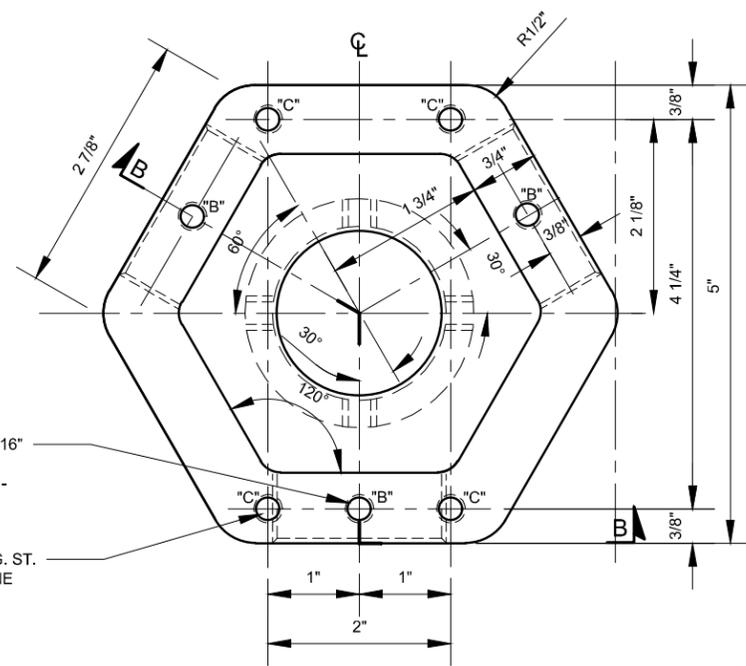


BOTTOM VIEW
FOUR-WAY JUNCTION BOX

LC-23-1

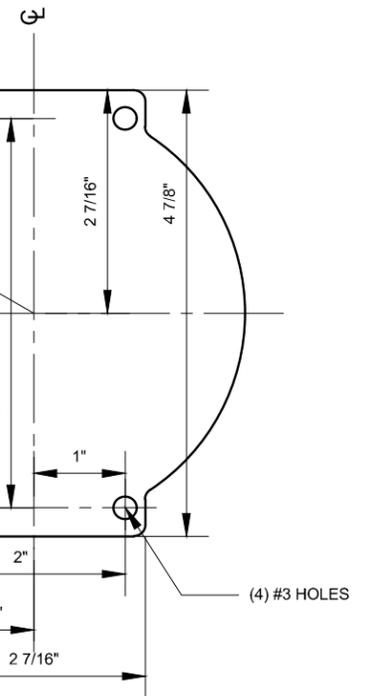
DRILL & TAP FOR 1/4"-20x7/16" LONG STAINLESS STEEL SOCKET HD. SET SCREWS - TYPE "B" - 3 REQ'D

DRILL & TOP FOR #10-24x5/8" LG. ST. STEEL FILLISTER HEAD MACHINE SCREWS - TYPE "C" - 4 REQ'D



BOTTOM VIEW
THREE-WAY JUNCTION BOX

LC-23-2



COVER - PLAN VIEW

LC-23-3

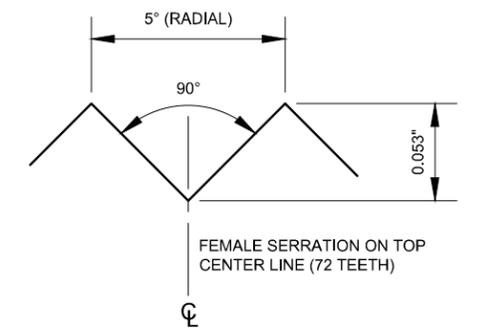
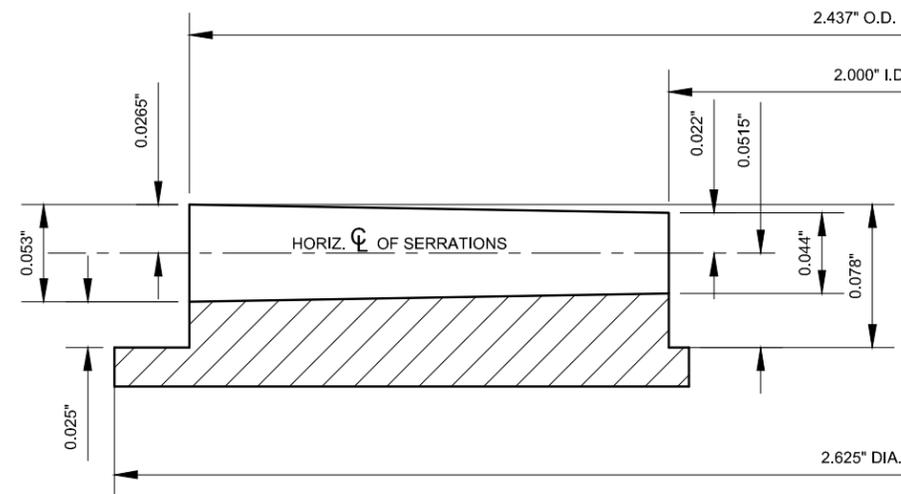
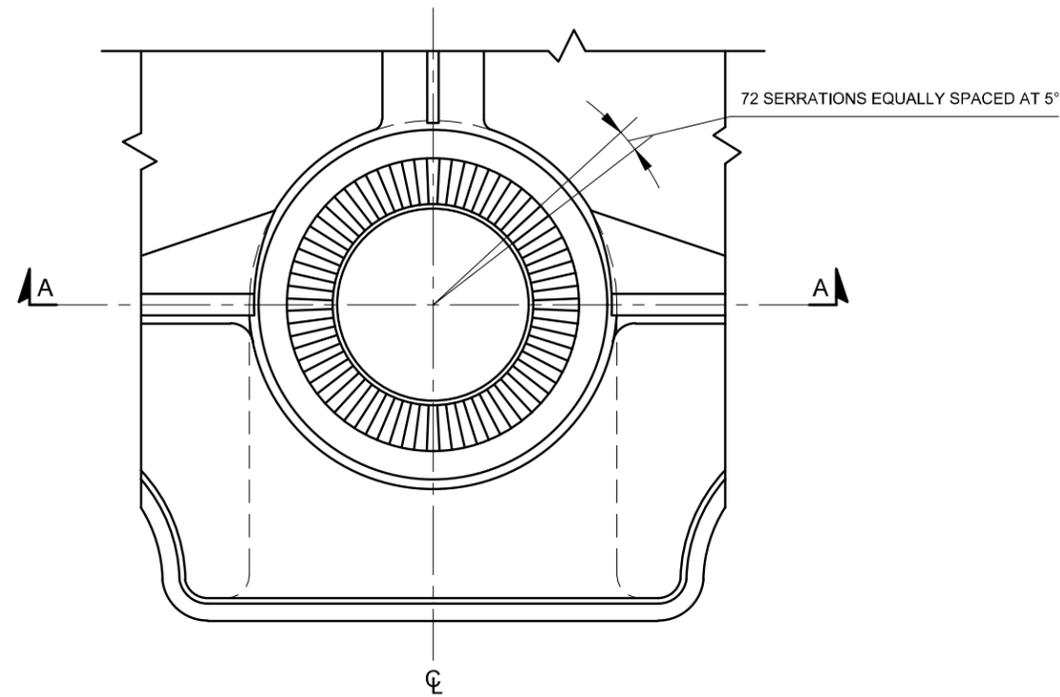
NOTES:

- FOR ASSEMBLIES OF SPIDER SEE DWG. SE-004.
- TOLERANCES, UNLESS OTHERWISE NOTED, TO BE: ± .01" FOR DECIMAL DIMENSIONS, ± 1/32" FOR MACHINING DIMENSIONS, ± 1/16" FOR CASTING DIMENSIONS, AND ± 1/2° FOR ANGULAR DIMENSION.
- PIPE THREADS FOR ALL PIPE FITTINGS TO BE NPSM (STRAIGHT MACHINE).
- COVER TO BE PUNCHED OUT OF #11 GAUGE ALUMINUM SHEETING, ALLOY 6061-T6, INCLUDING HOLES.



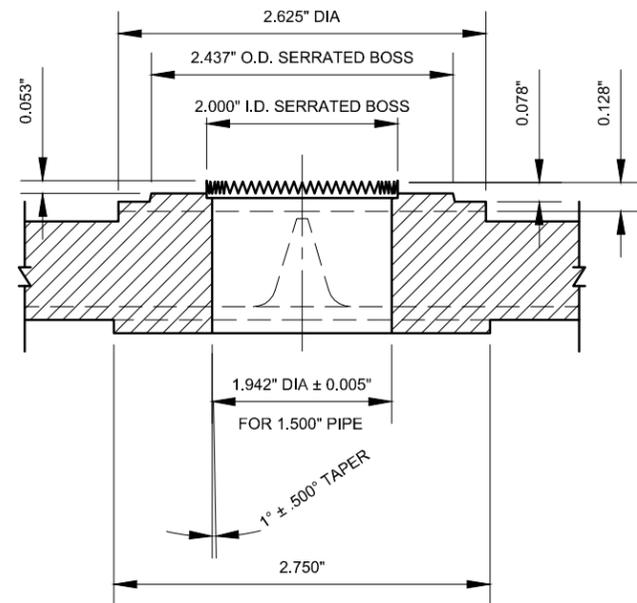
REVISION			
NO	DATE	BY	DESCRIPTION
2	07/2011	GPI	REPLICATED IN CADD
1	05/2006	NM	REVISION
0	11/1954	CR	LC-23 CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
JUNCTION BOXES FOR MAST ARM SPIDER ASSEMBLIES		
SCALE:	OLD DRAWING NO.	DRAWING NO.
6" = 1'-0"	LC-23	SE-005



DETAIL OF SERRATIONS

SCALE: 1" = 0.100"

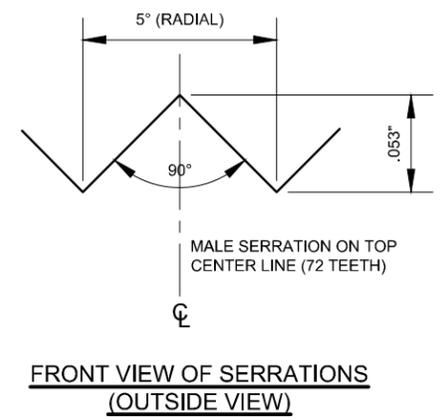
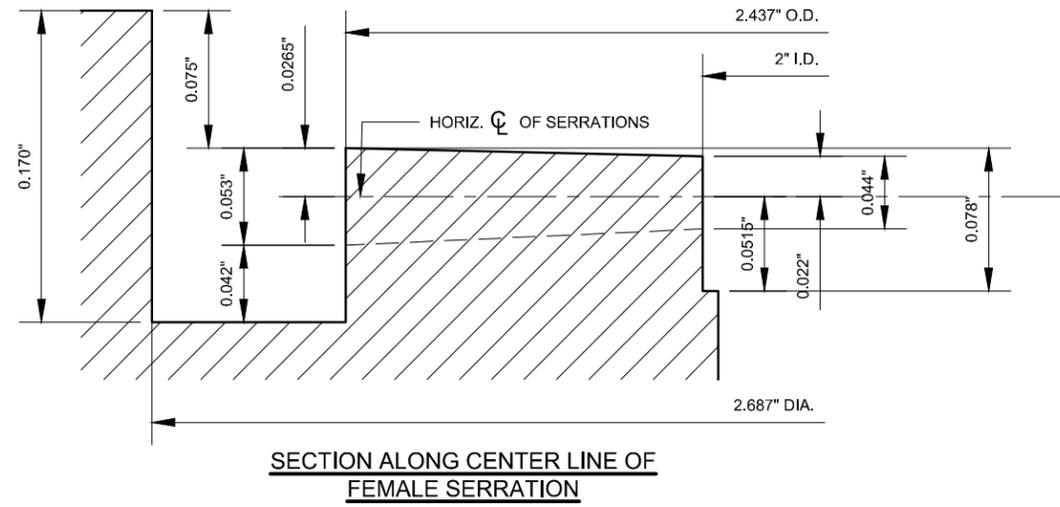
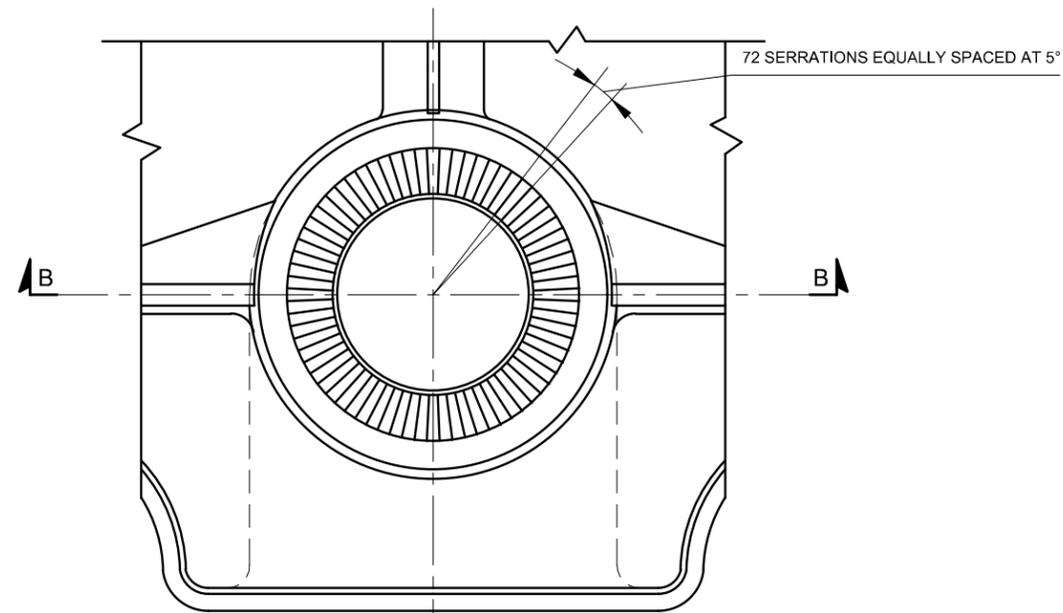


NOTE:
FEMALE SERRATION ON
TOP CENTERLINE

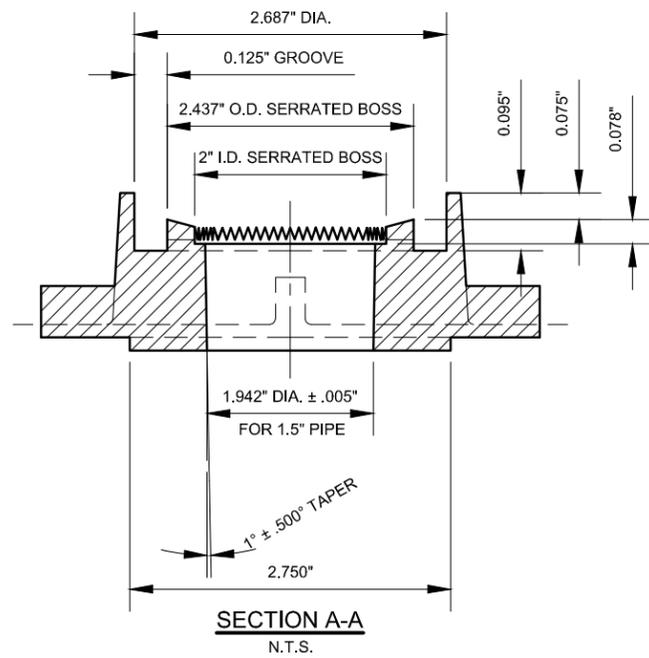


REVISION			
NO	DATE	BY	DESCRIPTION
1	07/2011	GPI	REPLICATED IN CADD
0	02/1965	DSH	LB-634S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
SERRATED CONNECTION FOR SIGNAL SECTION TOP		
SCALE: AS NOTED	OLD DRAWING NO. LB-634S	DRAWING NO. SE-006_1



DETAIL OF SERRATIONS
SCALE: 1" = 0.100"



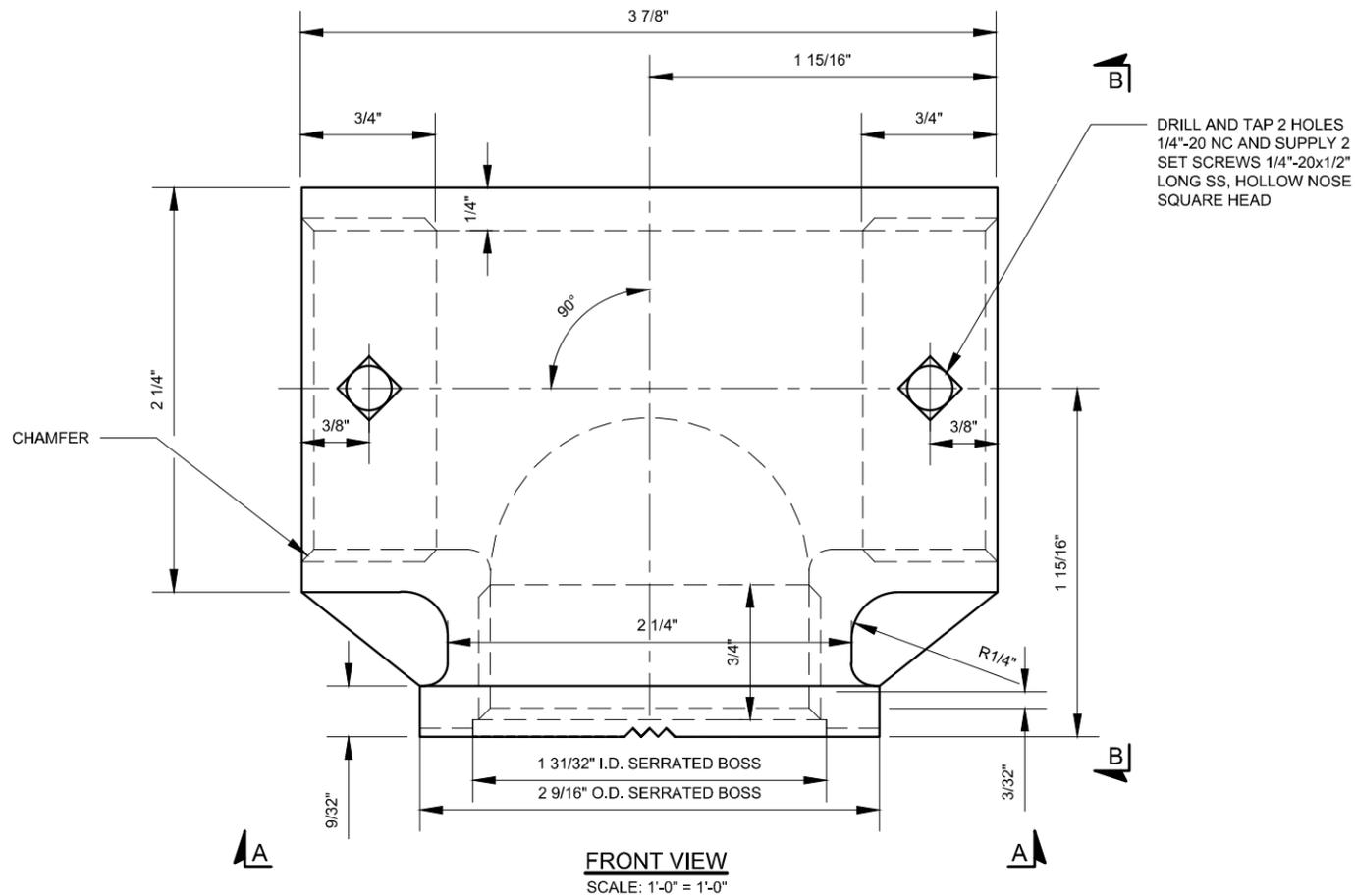
NOTE:
MALE SERRATION ON
TOP CENTERLINE

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013

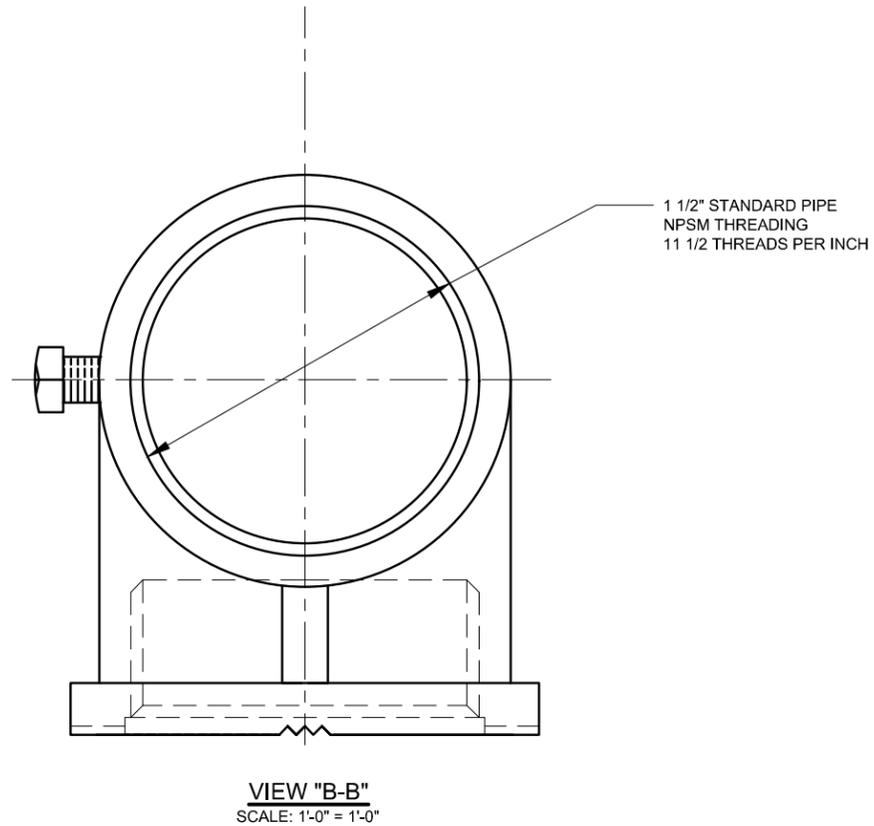


REVISION			
NO	DATE	BY	DESCRIPTION
1	07/2011	GPI	REPLICATED IN CADD
0	02/1965	DSH	LB-635S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
SERRATED CONNECTION FOR SIGNAL SECTION BOTTOM		
SCALE: AS NOTED	OLD DRAWING NO. LB-635S	DRAWING NO. SE-006_2

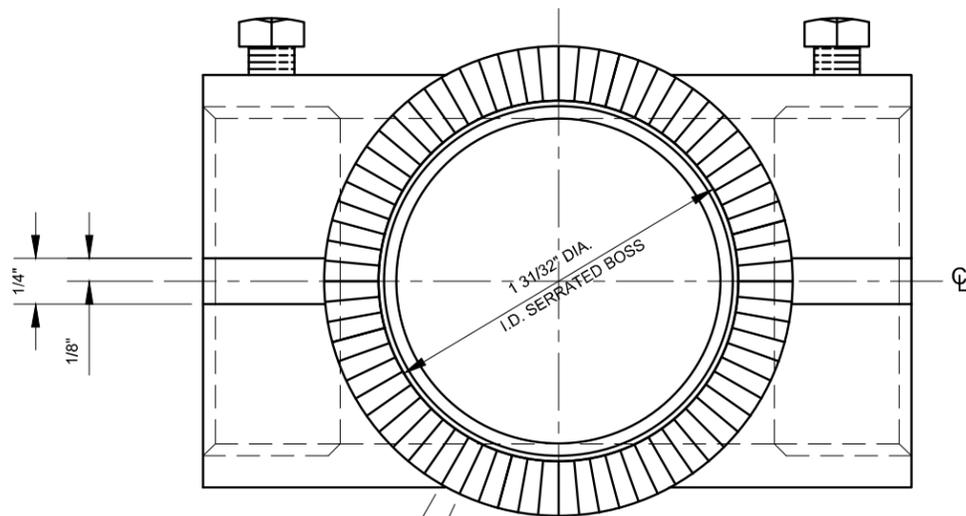


DRILL AND TAP 2 HOLES
1/4"-20 NC AND SUPPLY 2
SET SCREWS 1/4"-20x1/2"
LONG SS, HOLLOW NOSE
SQUARE HEAD

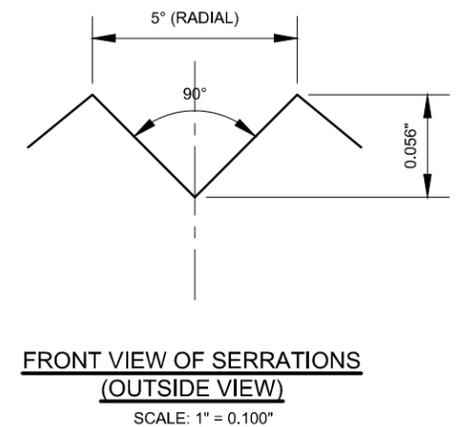
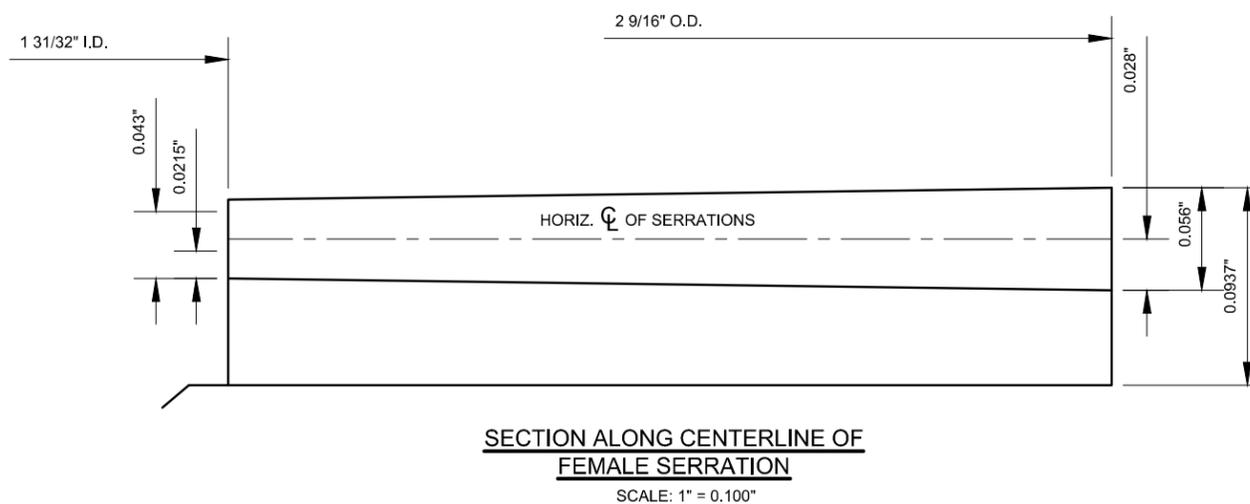


NOTES:

1. MATERIAL-ALUM. BASE ALLOY DIE CASTING COMMERCIAL DESIGNATION NO.13
2. RADII - CORNER & FILLET 1/16"
3. DRAFT ALLOWANCE 2°, IN NO CASE SHALL DRAFT DECREASE WALL OR RIB THICKNESS SPECIFIED.
4. 1/8" RAISED CHARACTERS.
5. CASTING SHALL BE SOUND FREE FROM BLOW HOLES, SCALES, FINS, BURRS, DENTS, AND CRACKS.
6. DEBURR & BREAK ALL SHARP EDGES.
7. ALL INSIDE EDGES SHALL BE CHAMFERED



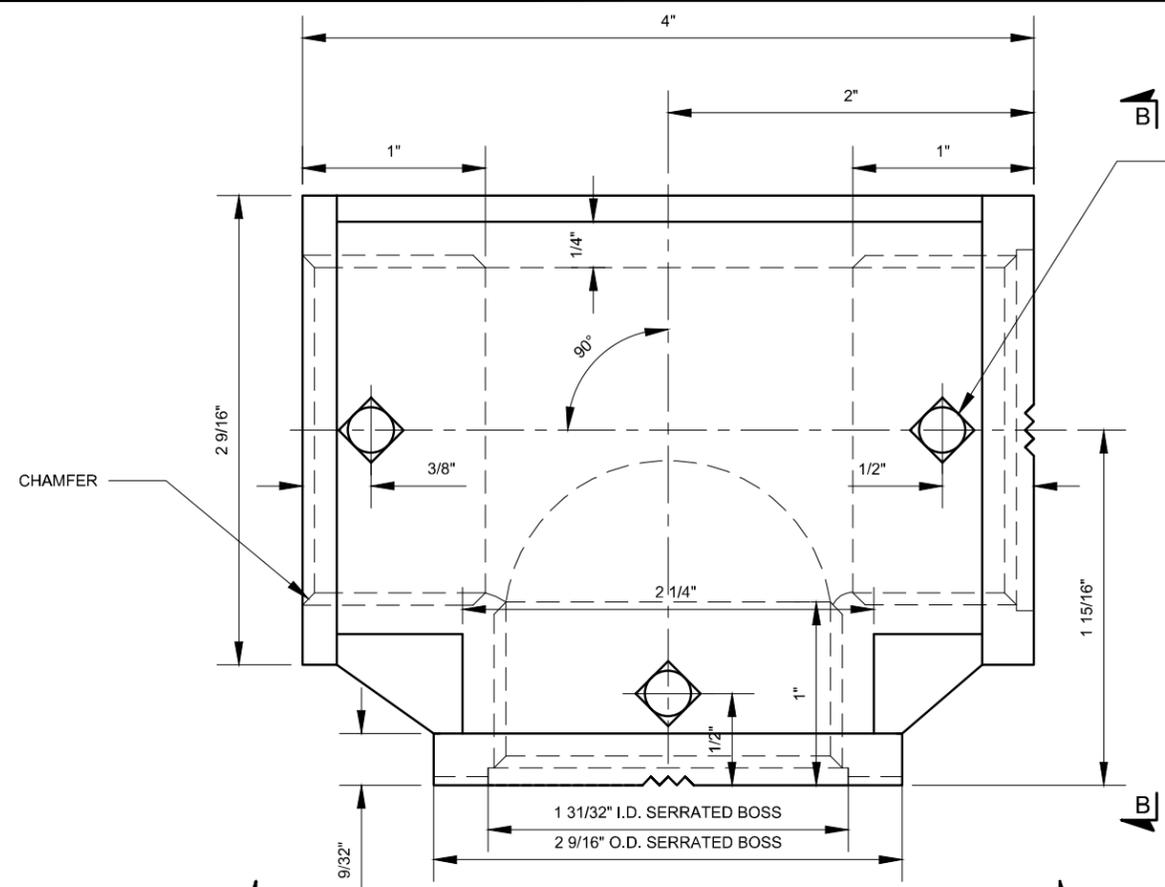
72 SERRATIONS EQUALLY SPACED AT 5°



REVISION			
NO	DATE	BY	DESCRIPTION
4	07/2011	GPI	REPLICATED IN CADD
3	05/2006	NM	REVISED
2	08/1967	DSH	CHANGED LENGTH OF THREADING
1	01/1967	DSH	REVISED TMD & NOTES
0	03/1965	DSH	LB-639S CREATED

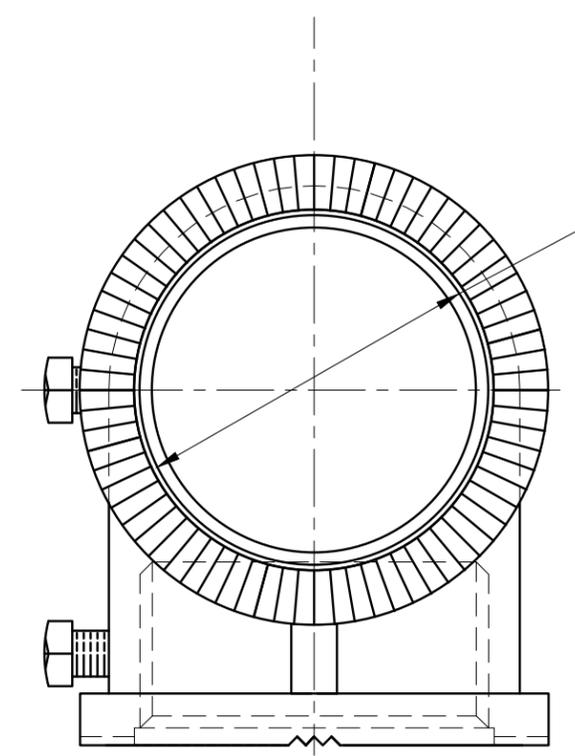
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
1 1/2" DIE CAST ALUM. SERRATED TEE DETAIL		
SCALE:	OLD DRAWING NO.	DRAWING NO.
AS NOTED	LB-639S	SE-007_1

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



DRILL AND TAP 3 HOLES
1/4"-20 NC AND SUPPLY 3
SET SCREWS 1/4"-20x1/2"
LONG SS, HOLLOW NOSE
SQUARE HEAD

FRONT VIEW
SCALE: 1'-0" = 1'-0"

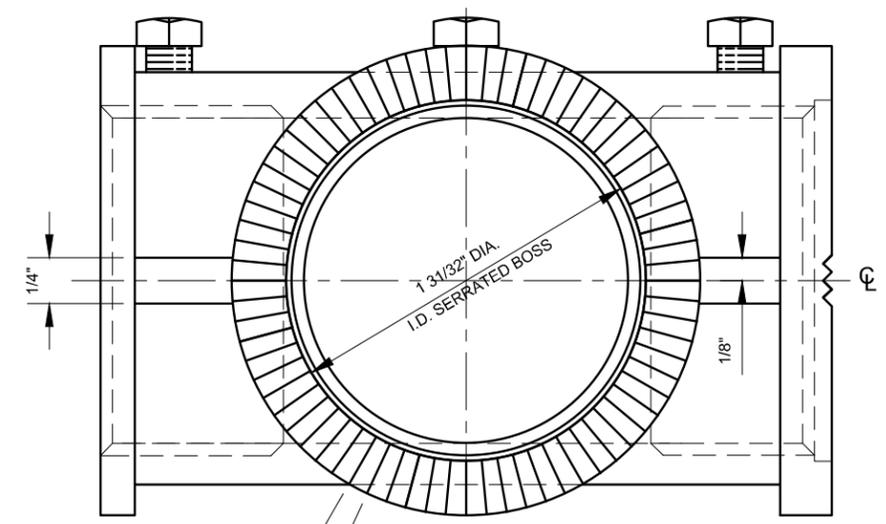


1 1/2" STANDARD PIPE
NPSM THREADING
11 1/2 THREADS PER INCH

VIEW "B-B"
SCALE: 1'-0" = 1'-0"

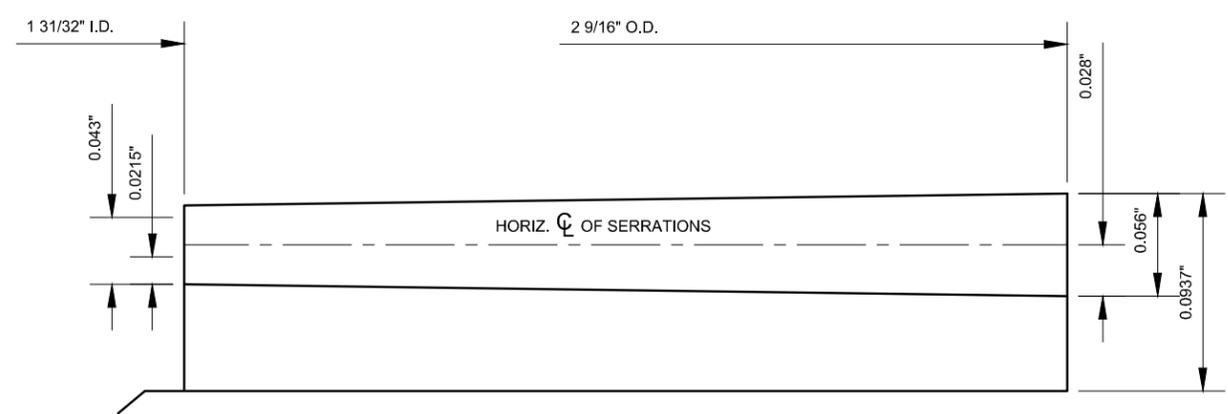
NOTES:

1. MATERIAL-ALUM. BASE ALLOY DIE CASTING COMMERCIAL DESIGNATION NO.13
2. RADII - CORNER & FILLET 1/16"
3. DRAFT ALLOWANCE 2°, IN NO CASE SHALL DRAFT DECREASE WALL OR RIB THICKNESS SPECIFIED.
4. 1/8" RAISED CHARACTERS.
5. CASTING SHALL BE SOUND FREE FROM BLOW HOLES, SCALES, FINIS, BURRS, DENTS, AND CRACKS.
6. DEBURR & BREAK ALL SHARP EDGES.
7. ALL INSIDE EDGES SHALL BE CHAMFERED

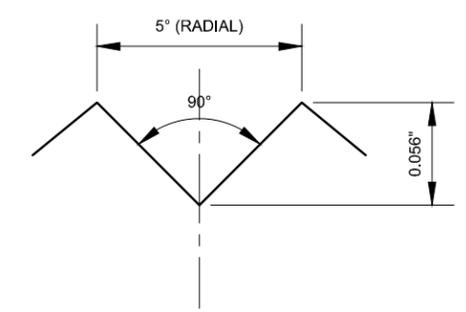


VIEW "A-A"
SCALE: 1'-0" = 1'-0"

72 SERRATIONS EQUALLY SPACED AT 5°



SECTION ALONG CENTERLINE OF FEMALE SERRATION
SCALE: 1" = 0.100"

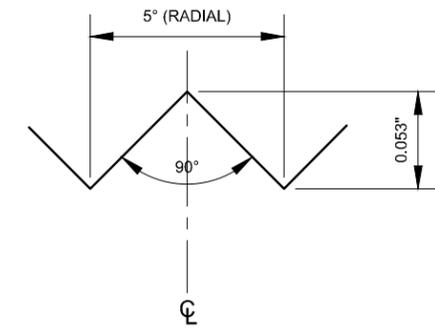
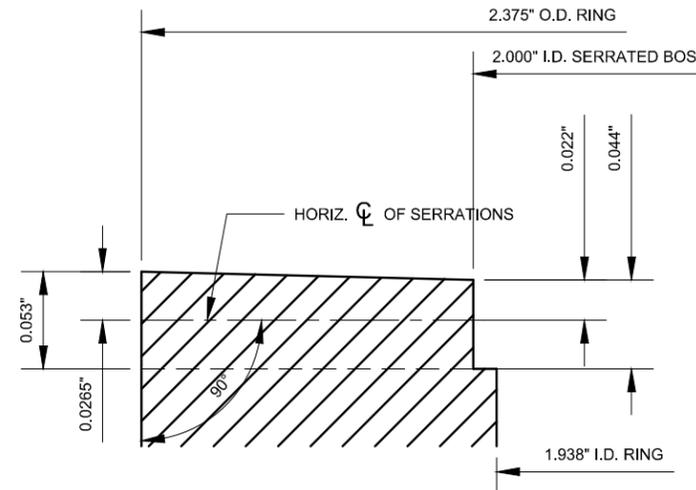
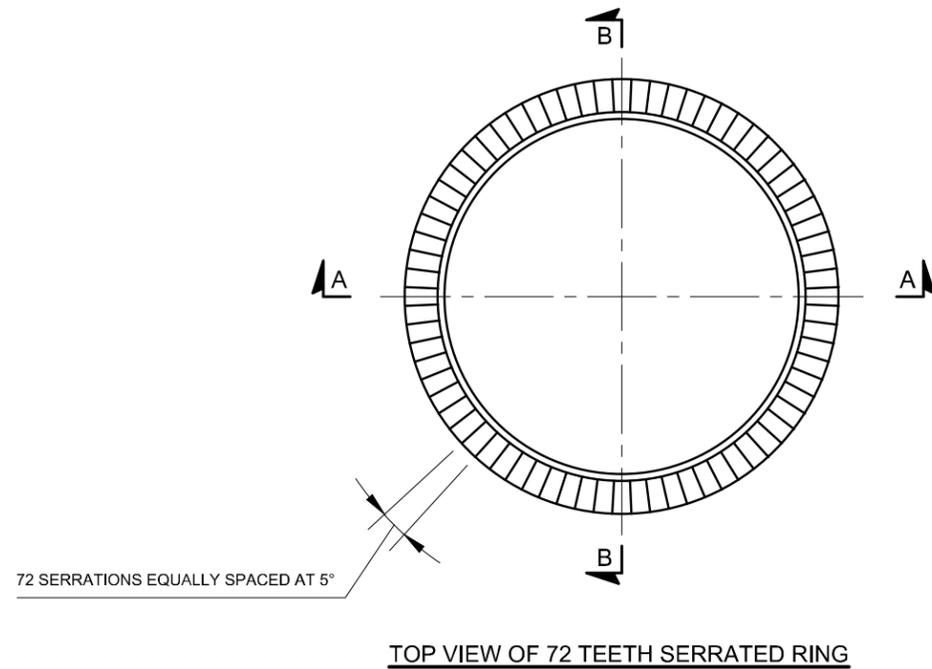


FRONT VIEW OF SERRATIONS (OUTSIDE VIEW)
SCALE: 1" = 0.100"



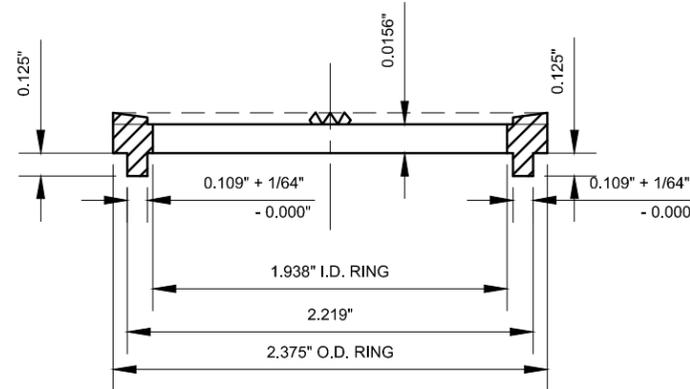
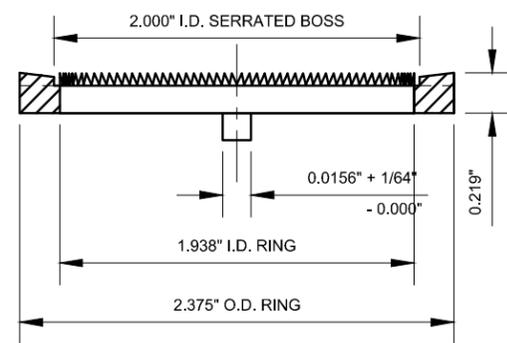
REVISION			
0	07/2013	DR	CREATED
NO	DATE	BY	DESCRIPTION

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
1 1/2" DIE CAST ALUM. SERRATED TEE DETAIL TWO SERRATED BOSSES		
SCALE: AS NOTED	OLD DRAWING NO. LB-639S	DRAWING NO. SE-007_2



DETAIL OF SERRATIONS

SCALE: 1" = 0.100"



SERRATED RING

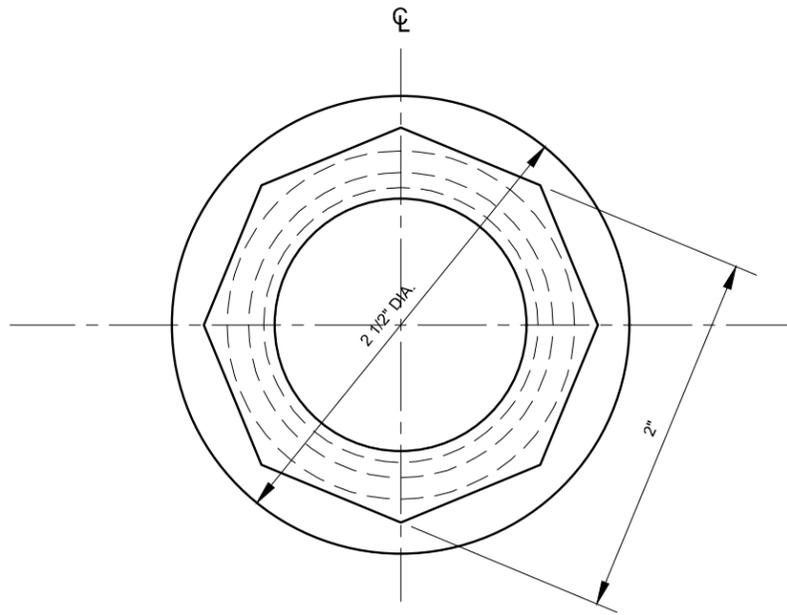
SCALE: 1'-0" = 1'-0"

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013

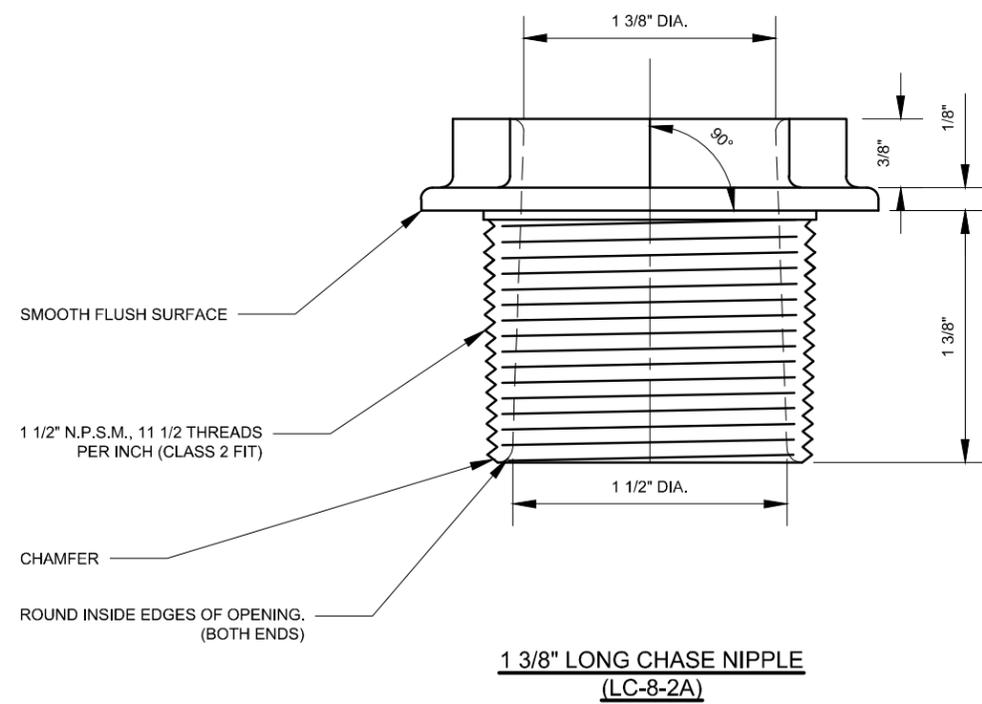
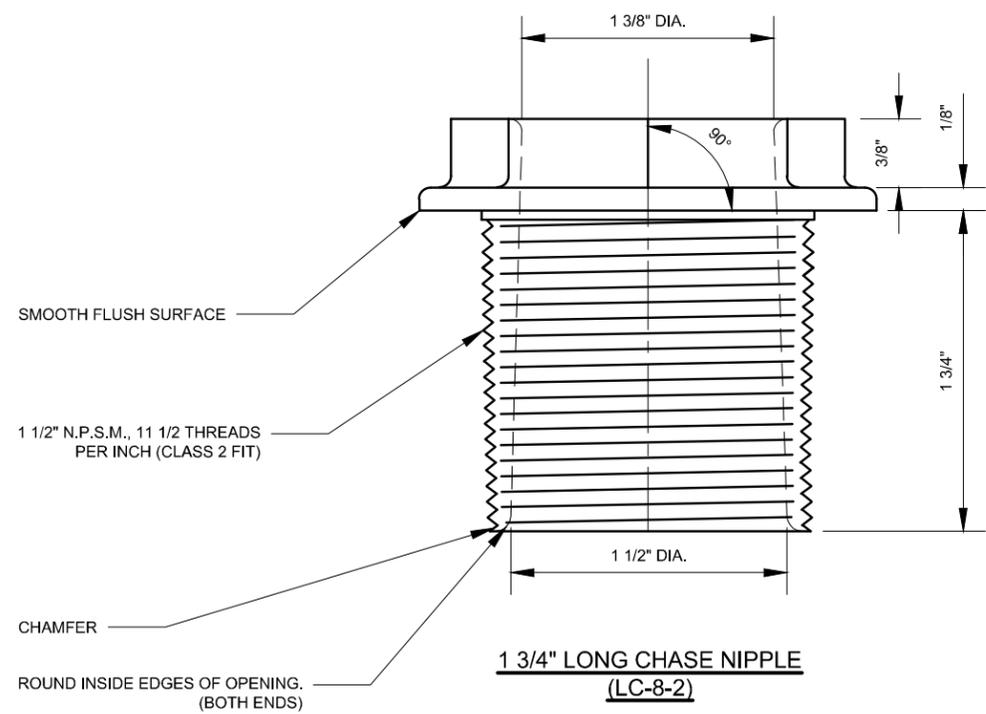


REVISION			
NO	DATE	BY	DESCRIPTION
3	07/2011	GPI	REPLICATED IN CADD
2	05/2006	NM	LB14252S REPLACED
0	03/1965	DSH	LG-158S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
1 1/2" DIE CAST SERRATED LOCKING RING DETAIL		
SCALE: AS NOTED	OLD DRAWING NO. LB-14252S	DRAWING NO. SE-008



PLAN
TYPICAL

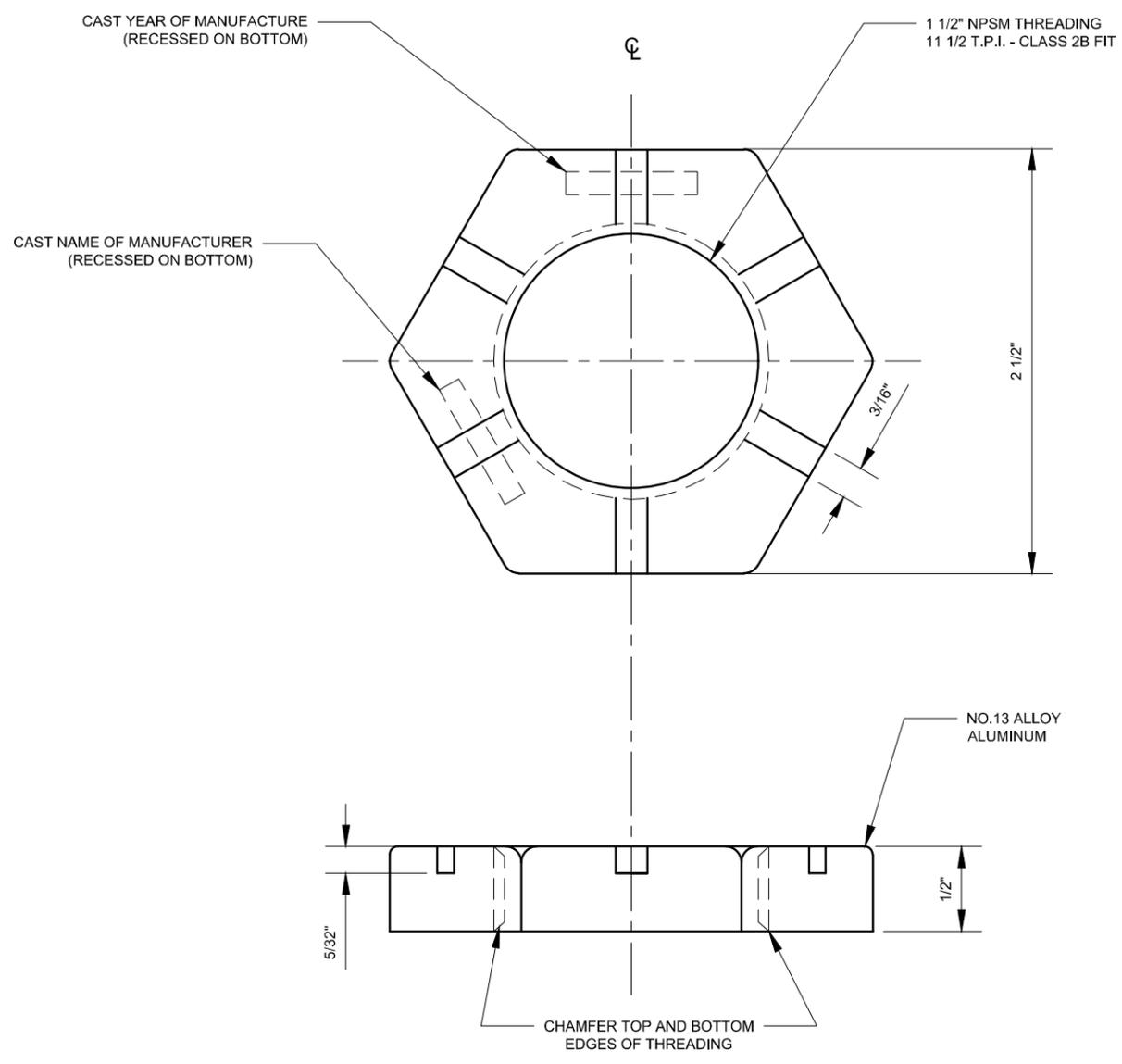


NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



REVISION			
3	07/2011	GPI	REPLICATED IN CADD
2	05/2006	NM	LB14253S REPLACED
0	04/1965	ADB	LG-167-S CREATED
NO	DATE	BY	DESCRIPTION

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
1 1/2" DIE CAST CHASE NIPPLES DETAILS		
SCALE:	OLD DRAWING NO.	DRAWING NO.
1'-0" = 1'-0"	LB-14253S	SE-009



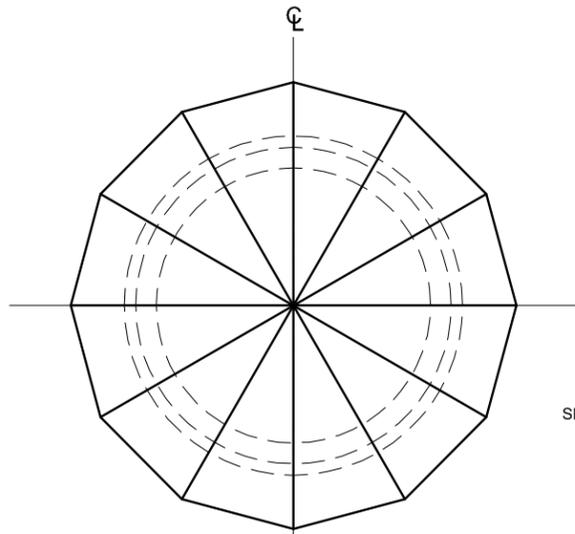
NOTES:

1. ALL EDGES TO BE SLIGHTLY ROUNDED FOR SAFETY.
2. THE TOP AND BOTTOM OF THE NUT SHALL HAVE SMOOTH, FLUSH, PARALLEL SURFACES.
3. THE PIPE LOCK NUT SHALL BE DIE CAST WITH THE CONTRACTOR RETAINING POSSESSION OF THE DIE.

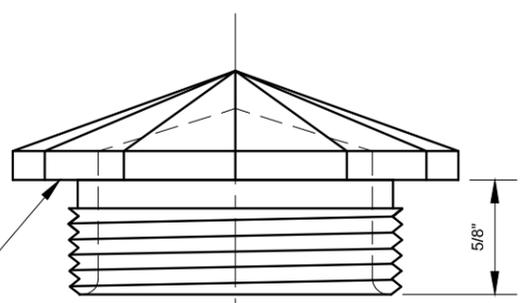


REVISION			
NO	DATE	BY	DESCRIPTION
1	07/2011	GPI	REPLICATED IN CADD
0	03/1970	GFS	LG-187-S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
1 1/2" DIE CAST ALUMINUM PIPE LOCKNUT		
SCALE:	OLD DRAWING NO.	DRAWING NO.
1'-0" = 1'-0"	LG-187-S	SE-010

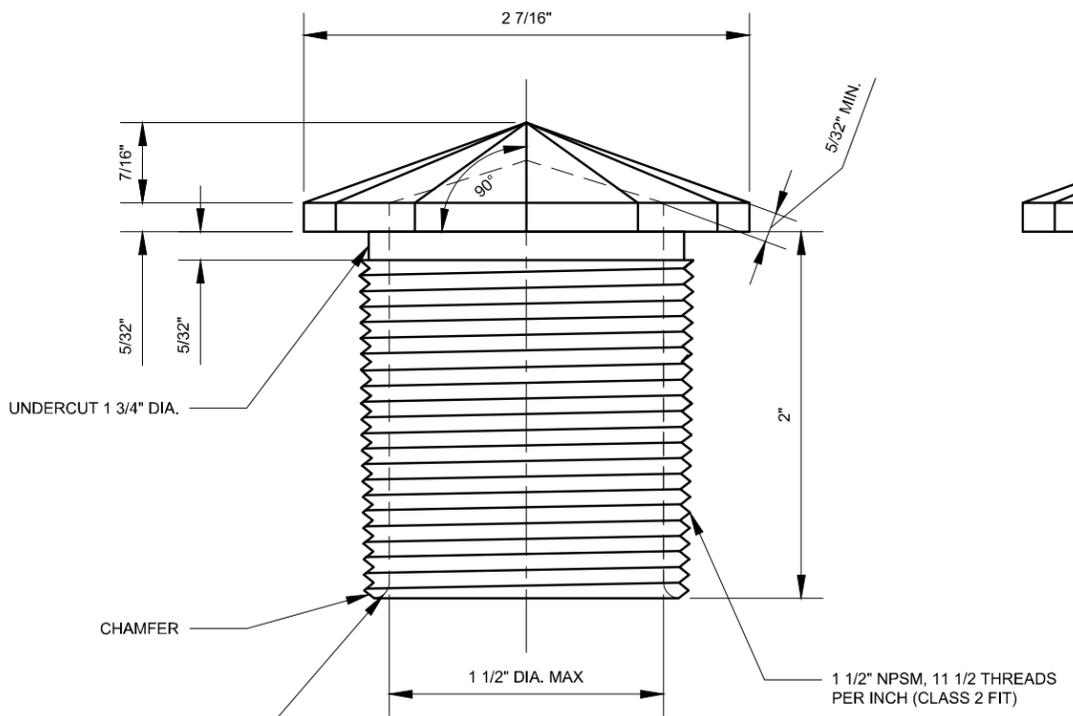


PLAN
(TYPICAL)



SMOOTH FLUSH SURFACE (TYPICAL)

5/8" LONG CLOSURE CAP
(LC-8-4)



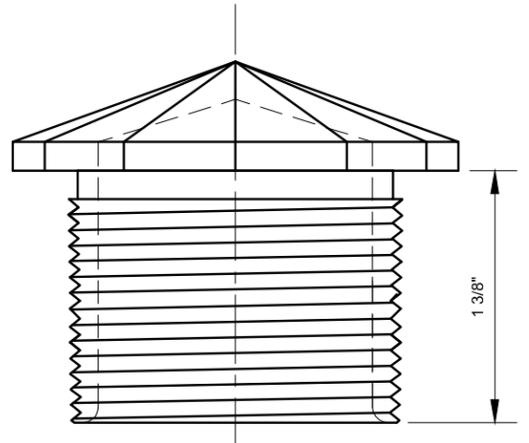
UNDERCUT 1 3/4" DIA.

CHAMFER

ROUND INSIDE EDGE OF OPENING

2" LONG CLOSURE CAP
(LC-8-6)

1 1/2" NPSM, 11 1/2 THREADS PER INCH (CLASS 2 FIT)



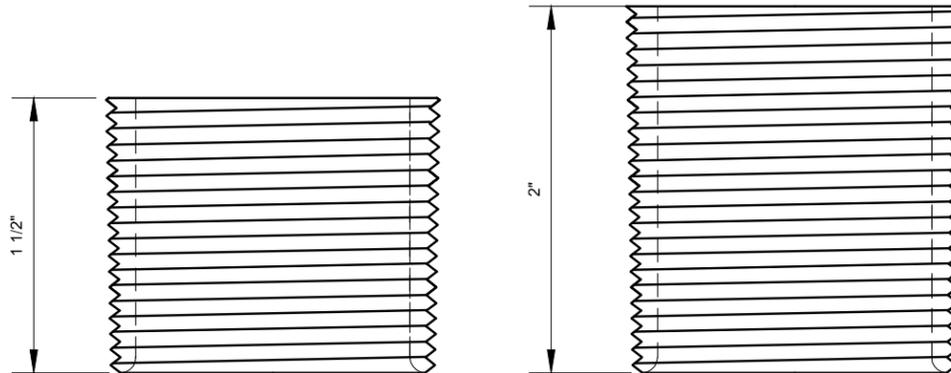
1 3/8" LONG CLOSURE CAP
(LC-8-5)

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



REVISION			
NO	DATE	BY	DESCRIPTION
2	07/2011	GPI	REPLICATED IN CADD
1	09/2006	ADB	LB14254S REPLACED
0	04/1965	JBC	LG-168-S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
1 1/2" CLOSURE CAPS DETAIL		
SCALE:	OLD DRAWING NO.	DRAWING NO.
1'-0" = 1'-0"	LB-14254S	SE-011



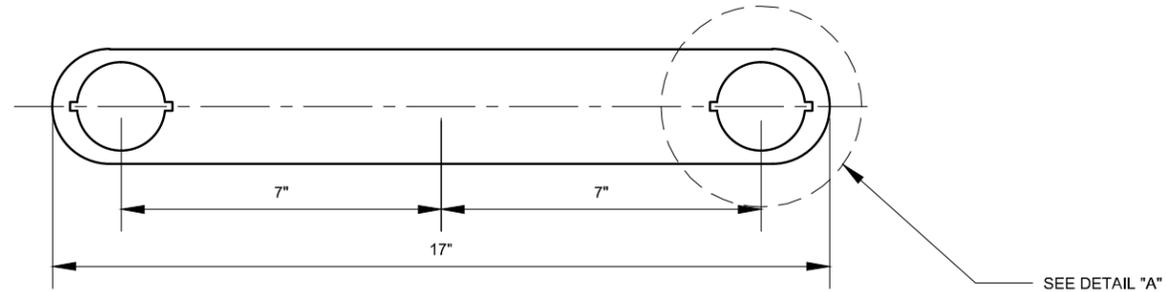
NOTE:

1. 1 1/2" SCHEDULE 40 STAINLESS STEEL WELDED PIPE NIPPLE - 1 1/2" LONG - WITH CONTINUOUS CLASS 2A "NPSM" THREADING FOR CONNECTION TO THE JUNCTION BOX IN THE SIGNAL MOUNTING ASSEMBLY. (SMOOTH INSIDE EDGES)

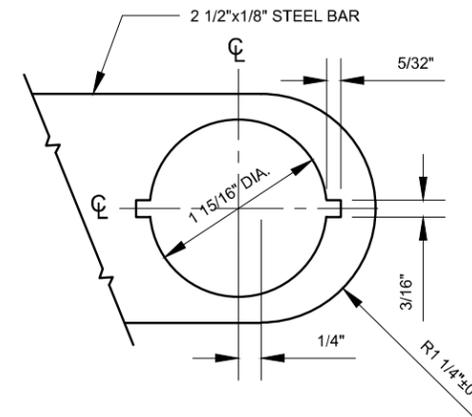


REVISION			
NO	DATE	BY	DESCRIPTION
1	07/2011	GPI	REPLICATED IN CADD
0	08/2003	JH	LB13720S CREATED

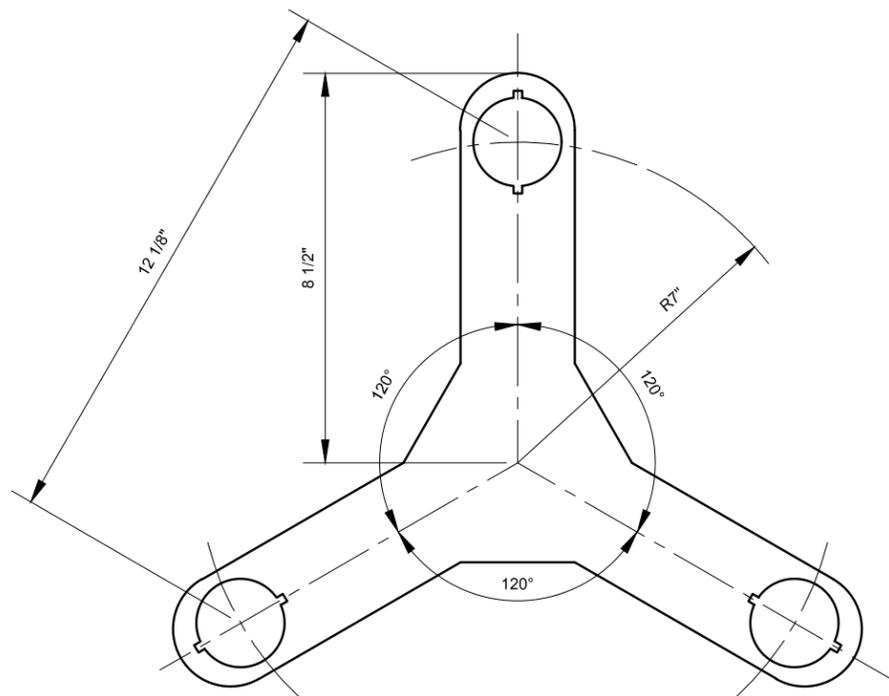
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
1 1/2" PIPE NIPPLES		
SCALE:	OLD DRAWING NO.	DRAWING NO.
1'-0" = 1'-0"	LB-13720S	SE-012



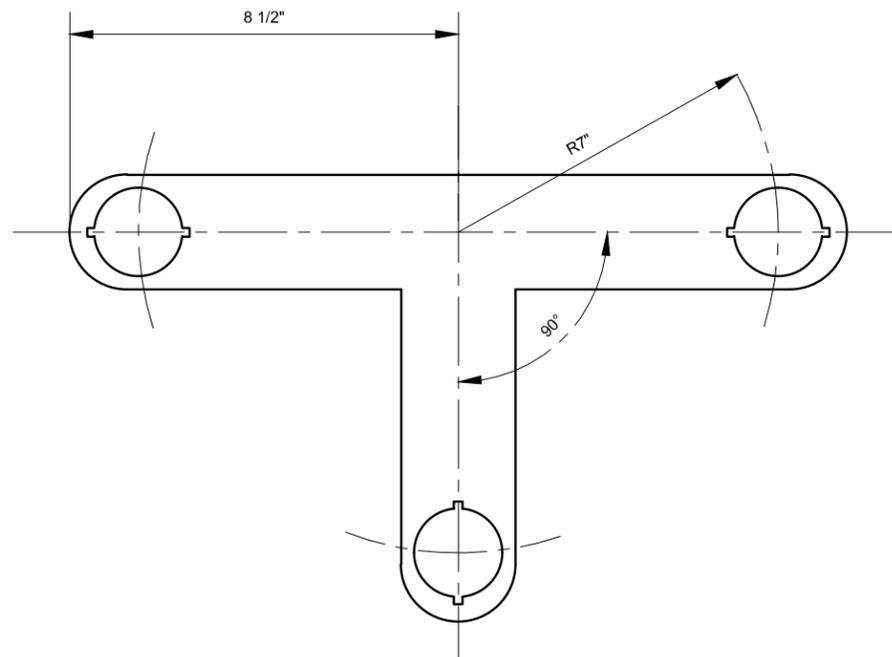
TWO-WAY ASSEMBLY TIE
SCALE: 3" = 1'-0"



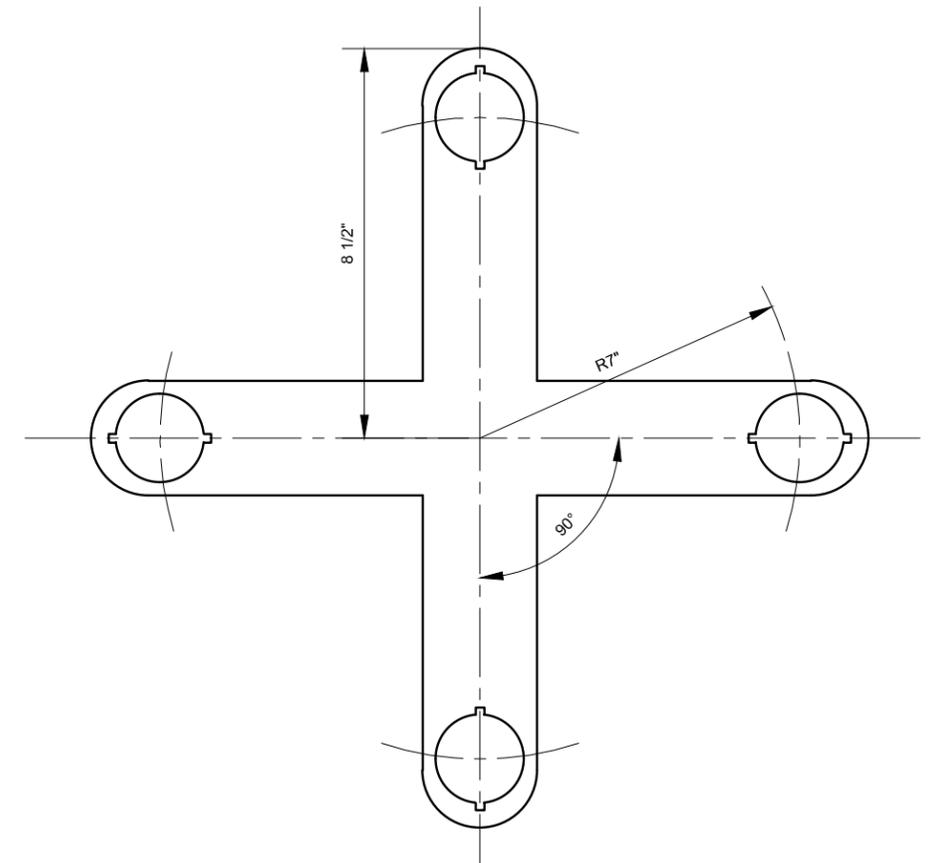
TYPICAL DETAIL "A"
SCALE: 6" = 1'-0"



THREE-WAY ASSEMBLY TIE
120° TYPE
SCALE: 3" = 1'-0"



THREE-WAY ASSEMBLY TIE
90° TYPE
SCALE: 3" = 1'-0"



FOUR-WAY ASSEMBLY TIE
SCALE: 3" = 1'-0"

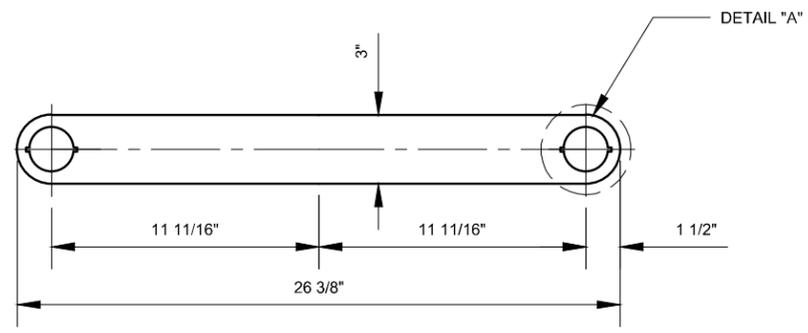
NOTES:

- SIGNAL HEAD TIES, INCLUDING OPENINGS, SHALL BE STAMPED OUT OF #11 GAGE SHEETING (U.S. STANDARD).

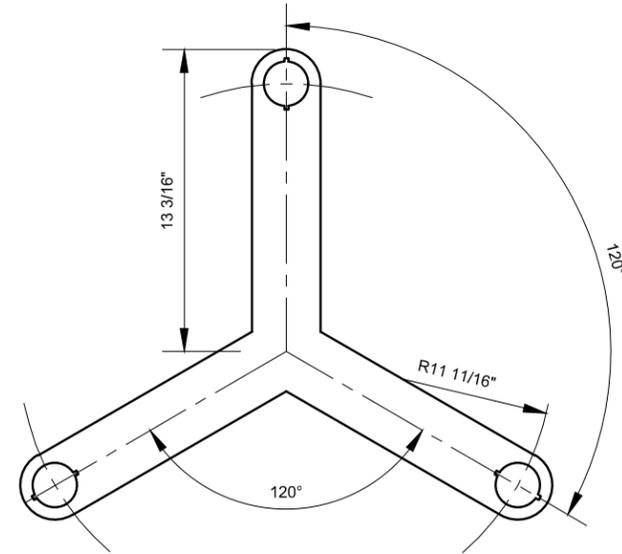


REVISION			
NO	DATE	BY	DESCRIPTION
2	07/2011	GPI	REPLICATED IN CADD
1	05/2006	NM	REVISION; VOID LG-133-S
1	11/1963	CL	LB14251S REPLACED
0	11/1963	CL	LG-133-S CREATED

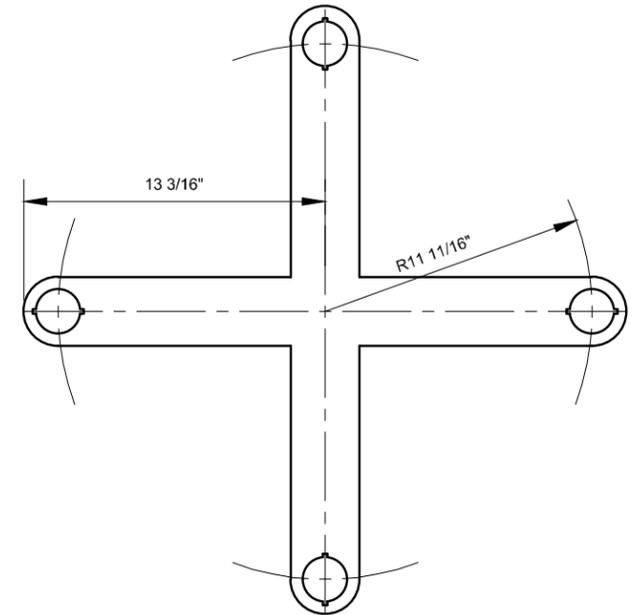
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
SIGNAL HEAD TIES FOR ASSEMBLIES "SP", "SPA", "MS"		
SCALE: AS NOTED	OLD DRAWING NO. LG-133-S LB-14251S	DRAWING NO. SE-013_1



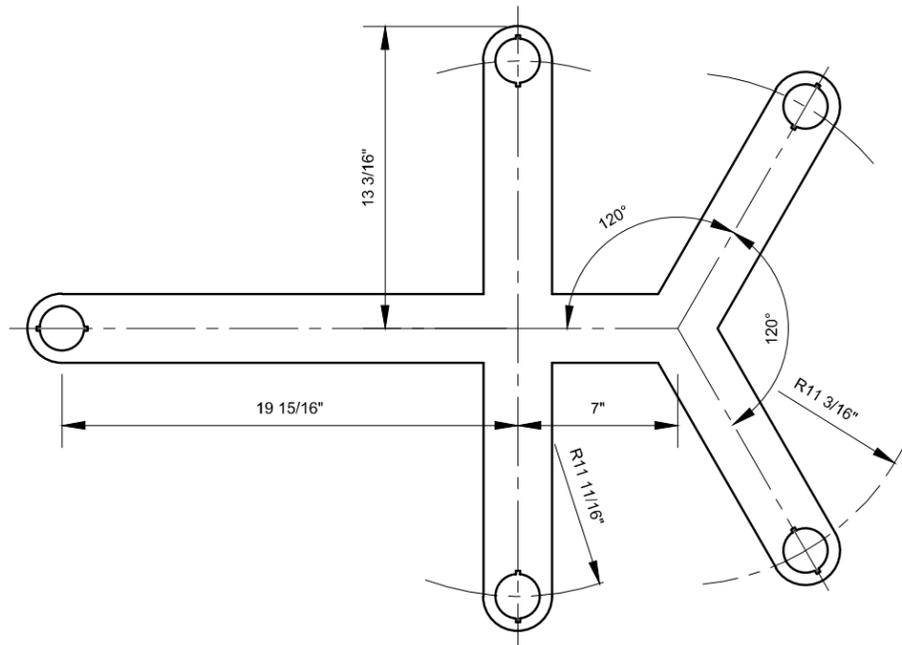
"E2MS" ASSEMBLY TYPE
SCALE: 1 1/2" = 1'-0"



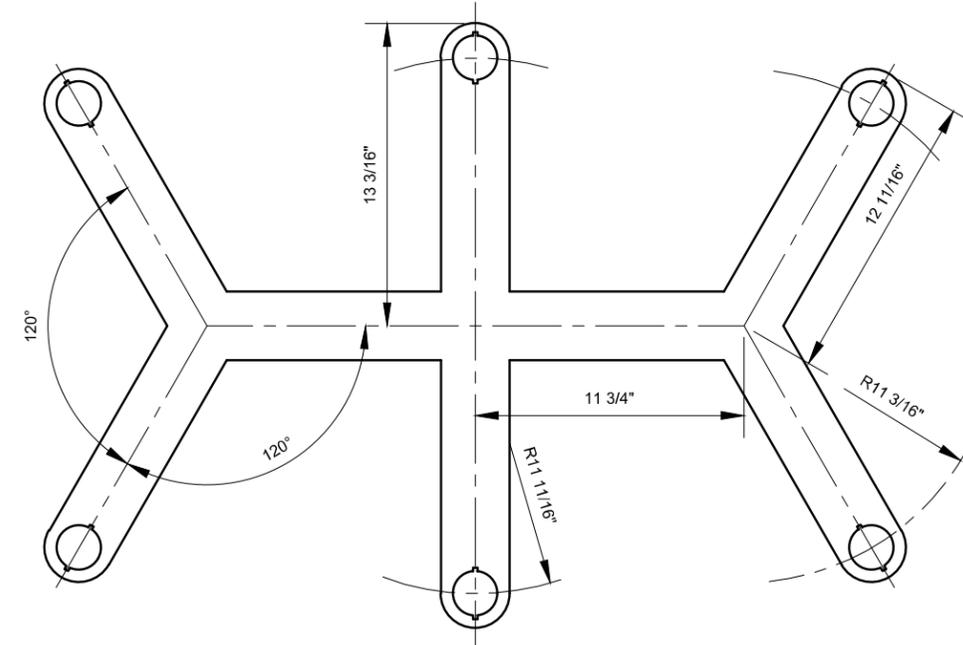
"E3MS" ASSEMBLY TYPE
SCALE: 1 1/2" = 1'-0"



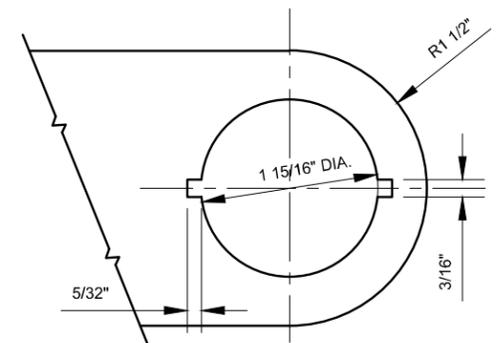
"E4MS" ASSEMBLY TYPE
SCALE: 1 1/2" = 1'-0"



"E5MS" ASSEMBLY TYPE
SCALE: 1 1/2" = 1'-0"



"E6MS" ASSEMBLY TYPE
SCALE: 1 1/2" = 1'-0"



DETAIL "A"
SCALE: 6" = 1'-0"

NOTE:

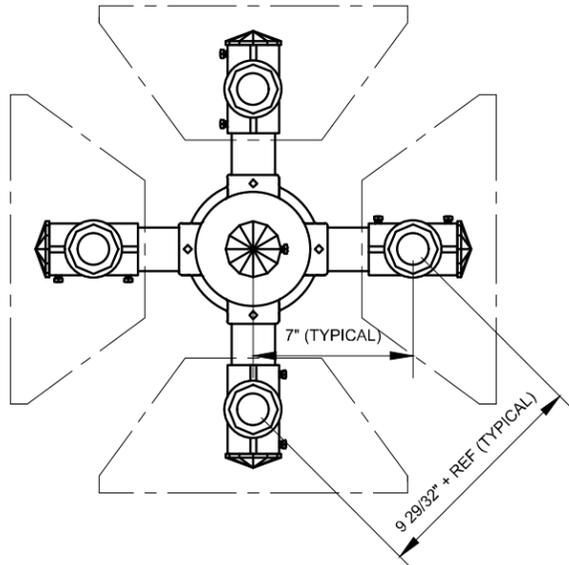
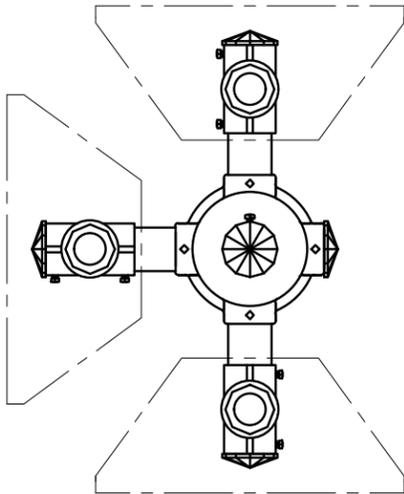
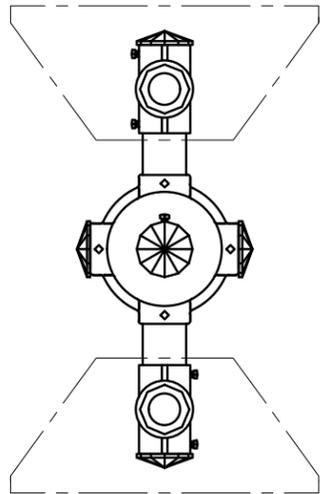
- EXTENDED SIGNAL HEAD TIES SHALL BE STAMPED OUT OF 1/8" THICK SHEETING

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



REVISION			
NO	DATE	BY	DESCRIPTION
0	09/2011	GPI	REPLICATED IN CADD

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
EXTENDED SIGNAL HEAD TIES FOR "E2MS", "E3MS", "E4MS", "E5MS", "E6MS"		
SCALE: AS NOTED	OLD DRAWING NO.	DRAWING NO. SE-013_2



TWO-WAY SLIPFITTER ASSEMBLY - "2SPA"

SCALE: 1 1/2" = 1'-0"

VIEW "A-A"

THREE-WAY SLIPFITTER ASSEMBLY - "3SPA"

SCALE: 1 1/2" = 1'-0"

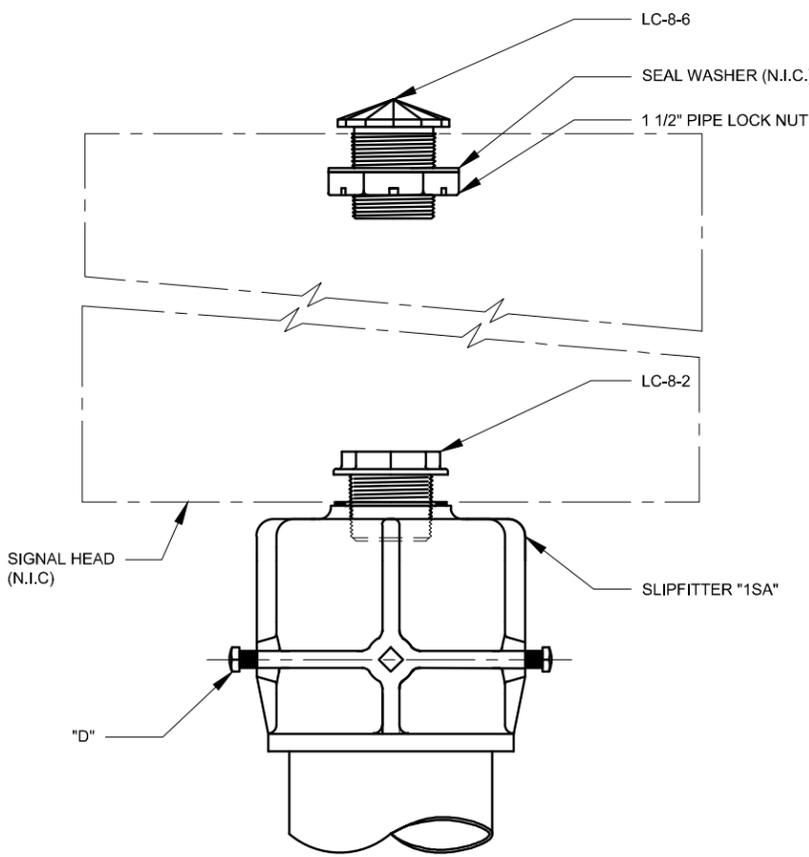
FOUR-WAY SLIPFITTER ASSEMBLY - "4SPA"

SCALE: 1 1/2" = 1'-0"

PARTS LIST

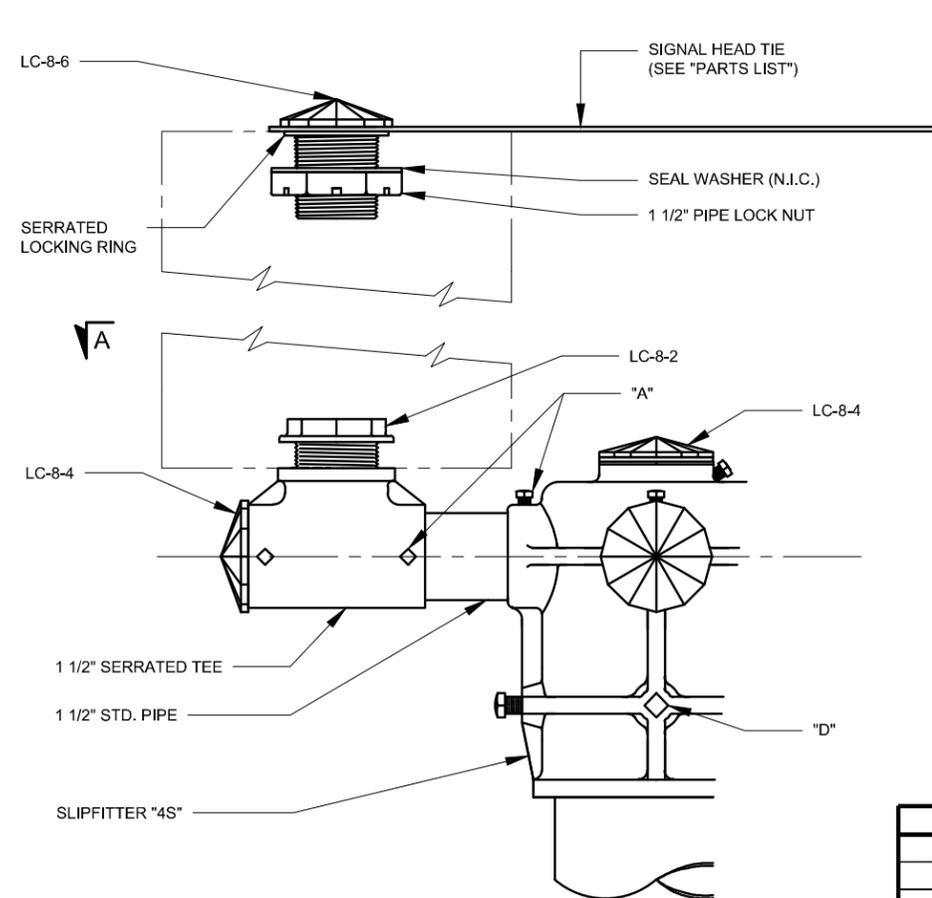
DESCRIPTION	DRAWING NO.	QTY. REQ'D FOR ASSEMBLY			
		"1SA"	"2SPA"	"3SPA"	"4SPA"
DIE CAST AL. SLIPFITTER "1SA"	SE-015	1			
DIE CAST AL. SLIPFITTER "4S"	SE-016		1	1	1
1 1/2"x3 1/4" LONG SCHEDULE 40 AL. PIPE, 11 1/2 NPSM 3/4" THREADED ON BOTH ENDS			2	3	4
1 1/2" DIE CAST AL. SERRATED TEE	SE-007		2	3	4
1 1/2"x1 3/4" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2A)	SE-009	1	2	3	4
1 1/2" DIE CAST AL. PIPE LOCKNUT	SE-010	1	2	3	4
1 1/2" DIE CAST AL. SERRATED LOCKING RING	SE-008	1	2	3	4
1 1/2"x2" LONG DIE CAST AL. CLOSURE CAP (LC-8-6)	SE-011	1	2	3	4
1 1/2"x5/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-6)	SE-011		5	5	5
NEOPRENE SEAL WASHER 2 3/4"ODx1 7/8"IDx1/8"TH (N.I.C.*)		1	2	3	4
TWO-WAY SIGNAL HEAD STEEL TIE	SE-013		1		
THREE-WAY SIGNAL HEAD STEEL TIE (90 deg.)	SE-013			1	
FOUR-WAY SIGNAL HEAD STEEL TIE	SE-013				1
1/4"-20x1 1/2" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW ("A")			9	11	13
3/8"-16x1" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW ("D")		4	4	4	4

* - NOT IN CONTRACT (N.I.C.)



ONE-WAY POLE SIGNAL MOUNTING ASSEMBLY - "1SA"

SCALE: 3" = 1'-0"



"2SPA", "3SPA", AND "4SPA" POLE SIGNAL MOUNTING ASSEMBLIES

SCALE: 3" = 1'-0"

NOTES:

- SIGNAL HEADS MAY BE ROTATED AROUND CENTERS OF CONNECTIONS.
- A THIN COAT OF "MOLYKOTE ANTI-SEIZE THREAD COMPOUND" BY DOW CORNING, OR APPROVED EQUAL, SHALL BE USED ON ALL THREADING IN ALUMINUM THREADED CONNECTIONS.

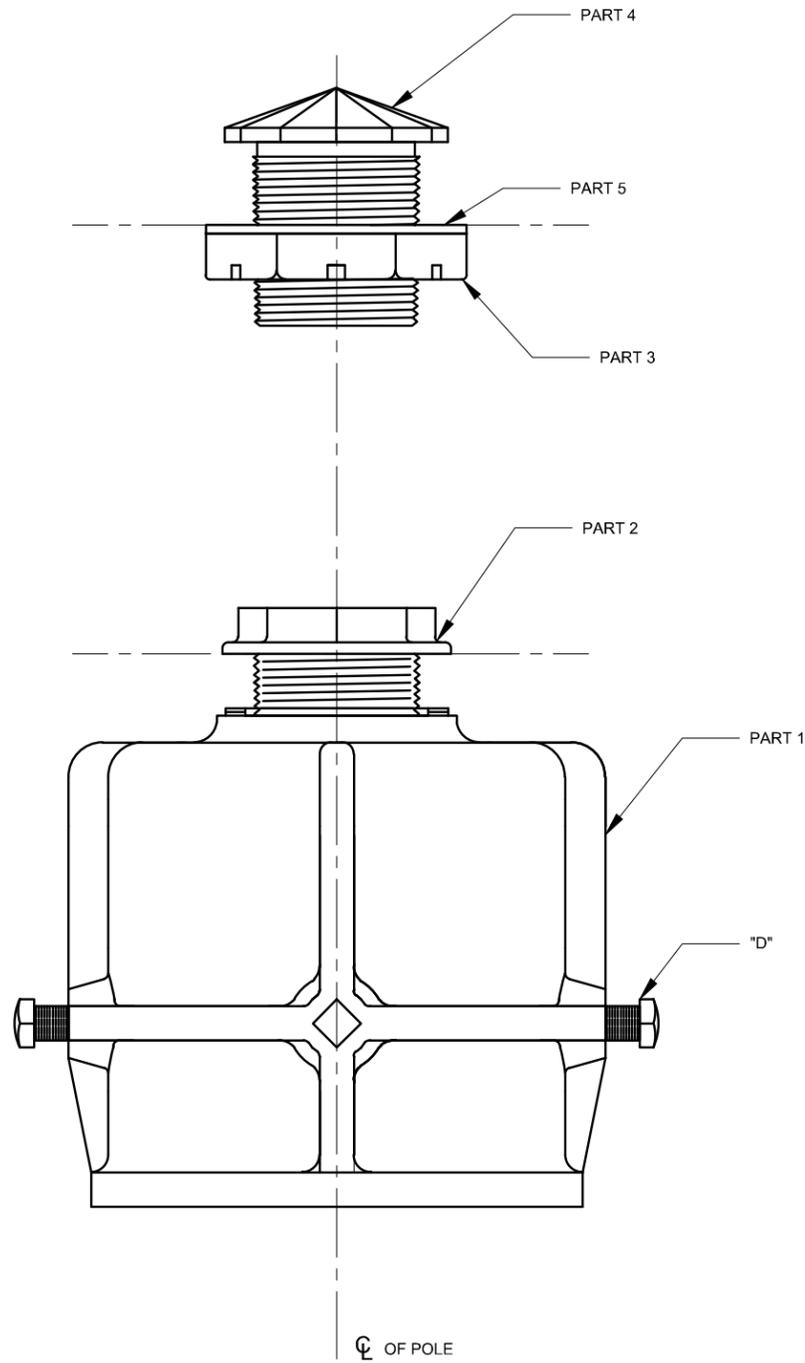
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



REVISION			
NO	DATE	BY	DESCRIPTION
3	07/2011	GPI	REPLICATED IN CADD
2	03/2006	NM	REDRAWN LC-314-S TO LC-314-D
1	02/1967	JV	SET SCREW "A" WAS 3/8" LONG
0	02/1967	AB	LD314-S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
SLIPFITTER POLE SIGNAL MOUNTING ASSEMBLIES "1SA", "2SPA", "3SPA", "4SPA"		
SCALE:	OLD DRAWING NO.	DRAWING NO.
AS NOTED	LC-314-S	SE-014_1

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



ONE-WAY POLE SIGNAL MOUNTING ASSEMBLY - "1SA"

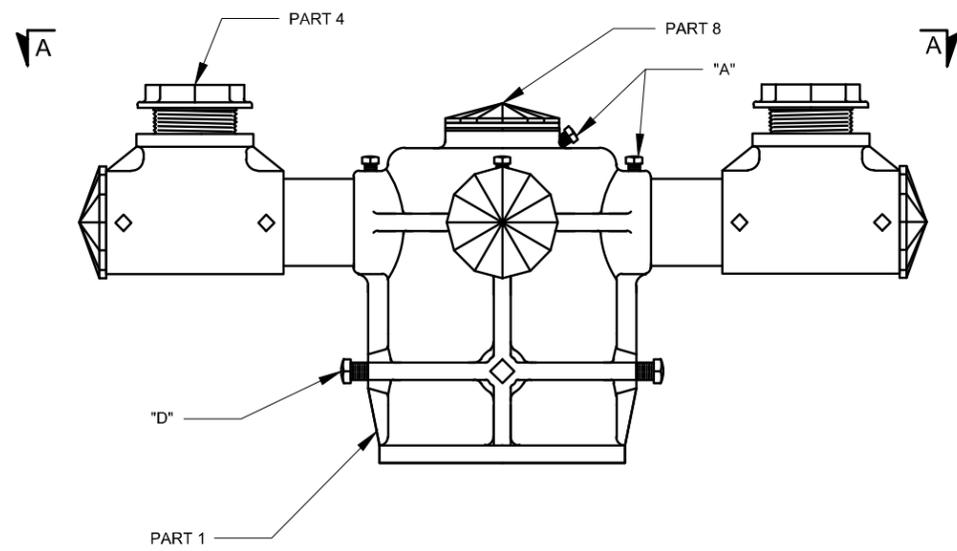
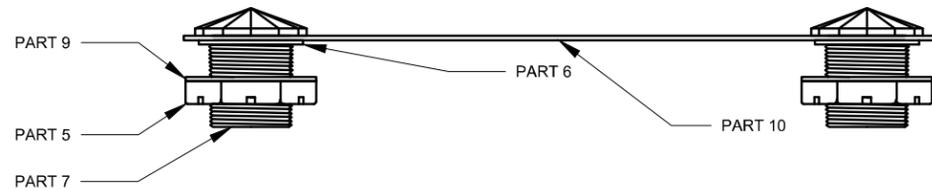
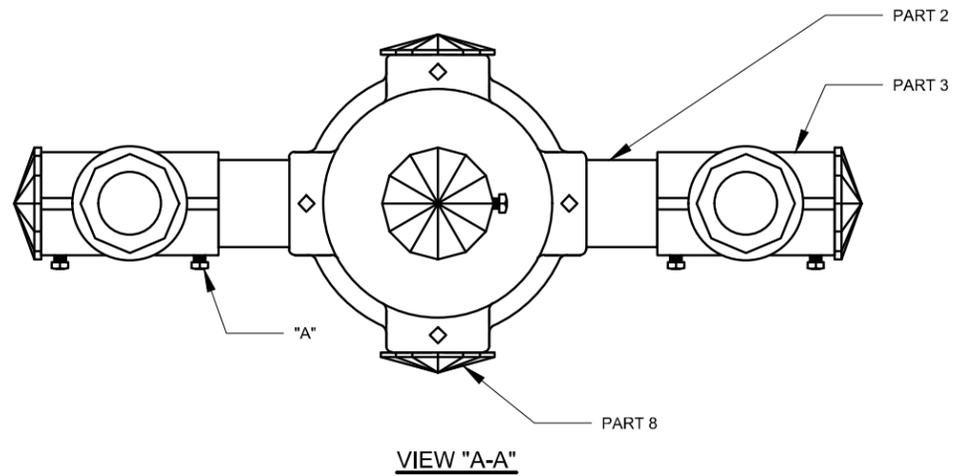
PARTS LIST			
PART	DESCRIPTION	DRAWING NO.	QTY.
1	DIE CAST AL. SLIP FITTER "1SA"	SE-015	1
2	1 1/2"x1 3/4" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2A)	SE-009	1
3	1 1/2" DIE CAST AL. PIPE LOCKNUT	SE-010	1
4	1 1/2"x2" LONG DIE CAST AL. CLOSURE CAP (LC-8-6)	SE-011	1
5	NEOPRENE SEAL WASHER 2 3/4"ODx1 7/8"IDx1/8"TH (N.I.C.*)		1
D	3/8"-16x1" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		4

* - NOT IN CONTRACT



REVISION			
NO	DATE	BY	DESCRIPTION
0	08/2011	GPI	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
SLIPFITTER POLE SIGNAL MOUNTING ASSEMBLY "1SA"		
SCALE:	OLD DRAWING NO.	DRAWING NO.
6" = 1'-0"		SE-014_2



TWO-WAY SLIPFITTER ASSEMBLY

PARTS LIST			
PART	DESCRIPTION	DRAWING NO.	QTY.
1	DIE CAST AL. SLIP FITTER "4S"	SE-016	1
2	1 1/2"x3 1/4" LONG SCHEDULE 40 AL. PIPE, 11 1/2" NPSM 3/4" THREADED ON BOTH ENDS		2
3	1 1/2" DIE CAST AL. SERRATED TEE	SE-007	2
4	1 1/2"x1 3/4" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2A)	SE-009	2
5	1 1/2" DIE CAST AL. PIPE LOCKNUT	SE-010	2
6	1 1/2" DIE CAST AL. SERRATED LOCKING RING	SE-008	2
7	1 1/2"x2" LONG DIE CAST AL. CLOSURE CAP (LC-8-6)	SE-011	2
8	1 1/2"x5/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-4)	SE-011	5
9	NEOPRENE SEAL WASHER 2 3/4"ODx1 7/8"IDx1/8"TH (N.I.C.*)		2
10	TWO-WAY SIGNAL HEAD STEEL TIE	SE-013	1
A	1/4"-20x1/2" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		9
D	3/8"-16x1" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		4

*SUPPLIED BY OTHERS

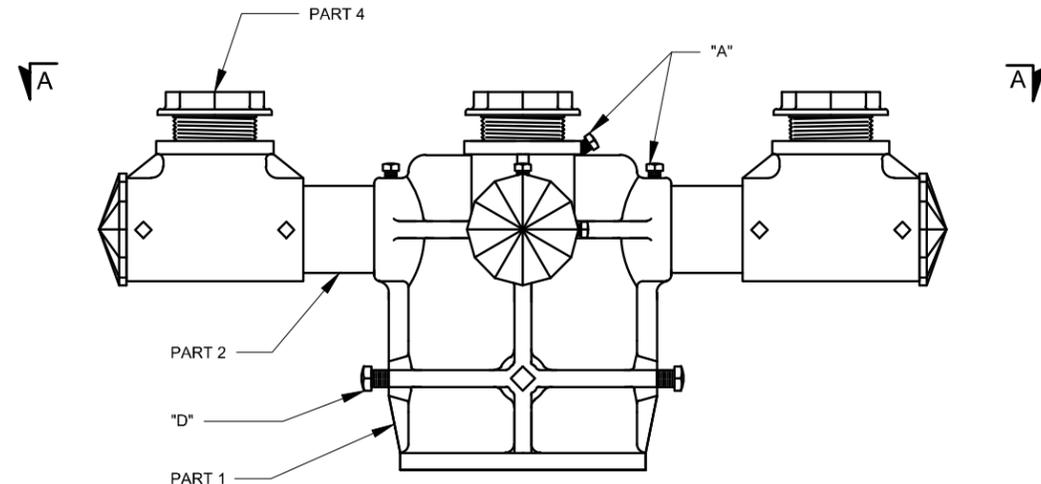
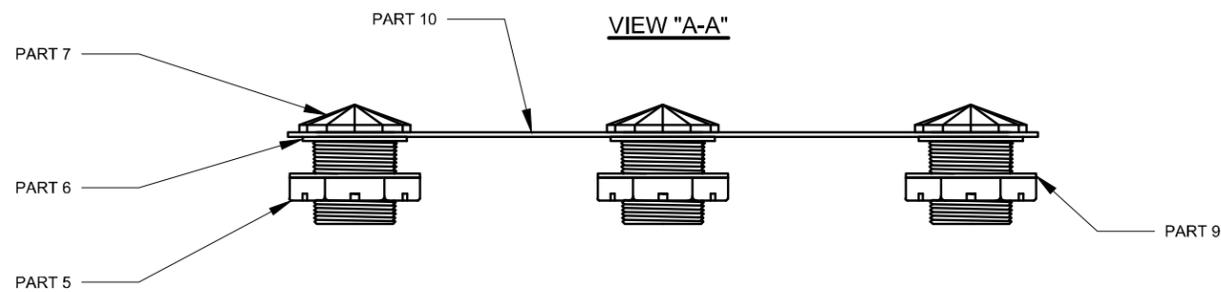
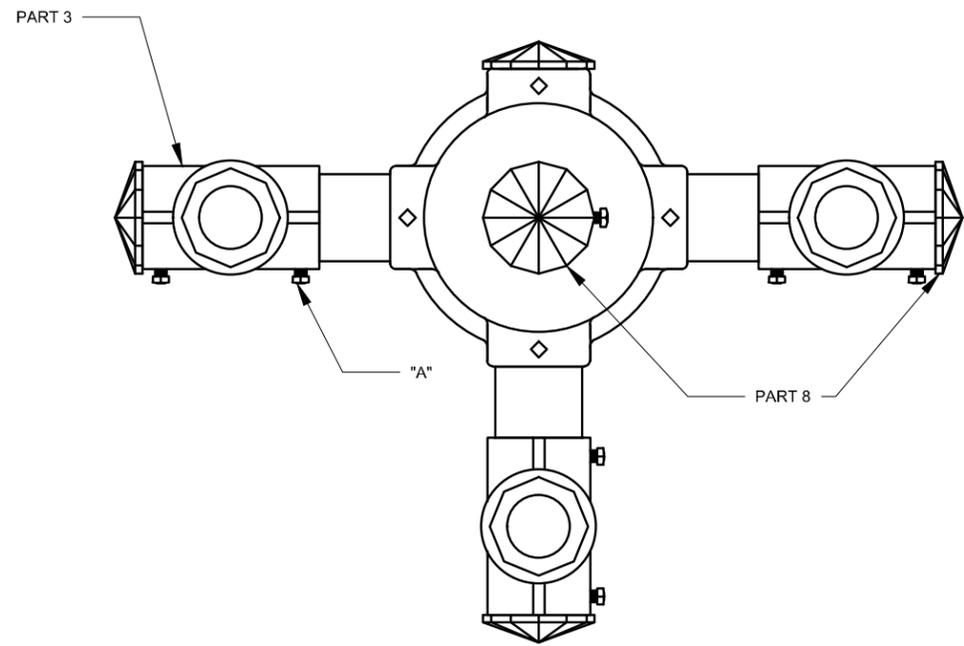
NOTES:

- SIGNAL HEADS MAY BE ROTATED AROUND CENTERS OF CONNECTIONS.
- A THIN COAT OF "MOLYKOTE ANTI-SIEZE THREAD COMPOUND" BY DOW CORNING, OR APPROVED EQUAL, SHALL BE USED ON ALL THREADING IN ALUMINUM THREAD CONNECTIONS.



REVISION			
NO	DATE	BY	DESCRIPTION
0	08/2011	GPI	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
SLIPFITTER POLE SIGNAL MOUNTING ASSEMBLY "2SPA"		
SCALE:	OLD DRAWING NO.	DRAWING NO.
3"=1'-0"		SE-014_3



THREE-WAY SLIPFITTER ASSEMBLY

PARTS LIST			
PART	DESCRIPTION	DRAWING NO.	QTY.
1	DIE CAST AL. SLIP FITTER "4S"	SE-016	1
2	1 1/2"x3 1/4" LONG SCHEDULE 40 AL. PIPE, 11 1/2 NPSM 3/4" THREADED ON BOTH ENDS		3
3	1 1/2" DIE CAST AL. SERRATED TEE	SE-007	3
4	1 1/2"x1 3/4" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2A)	SE-009	3
5	1 1/2" DIE CAST AL. PIPE LOCKNUT	SE-010	3
6	1 1/2" DIE CAST AL. SERRATED LOCKING RING	SE-008	3
7	1 1/2"x2" LONG DIE CAST AL. CLOSURE CAP (LC-8-6)	SE-011	3
8	1 1/2"x5/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-4)	SE-011	5
9	NEOPRENE SEAL WASHER 2 3/4"ODx1 7/8"IDx1/8"TH (N.I.C.*)		3
10	THREE-WAY SIGNAL HEAD STEEL TIE (90 deg.)	SE-013	1
A	1/4"-20x1/2" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		11
D	3/8"-16x1" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		4

* - NOT IN CONTRACT (N.I.C.)

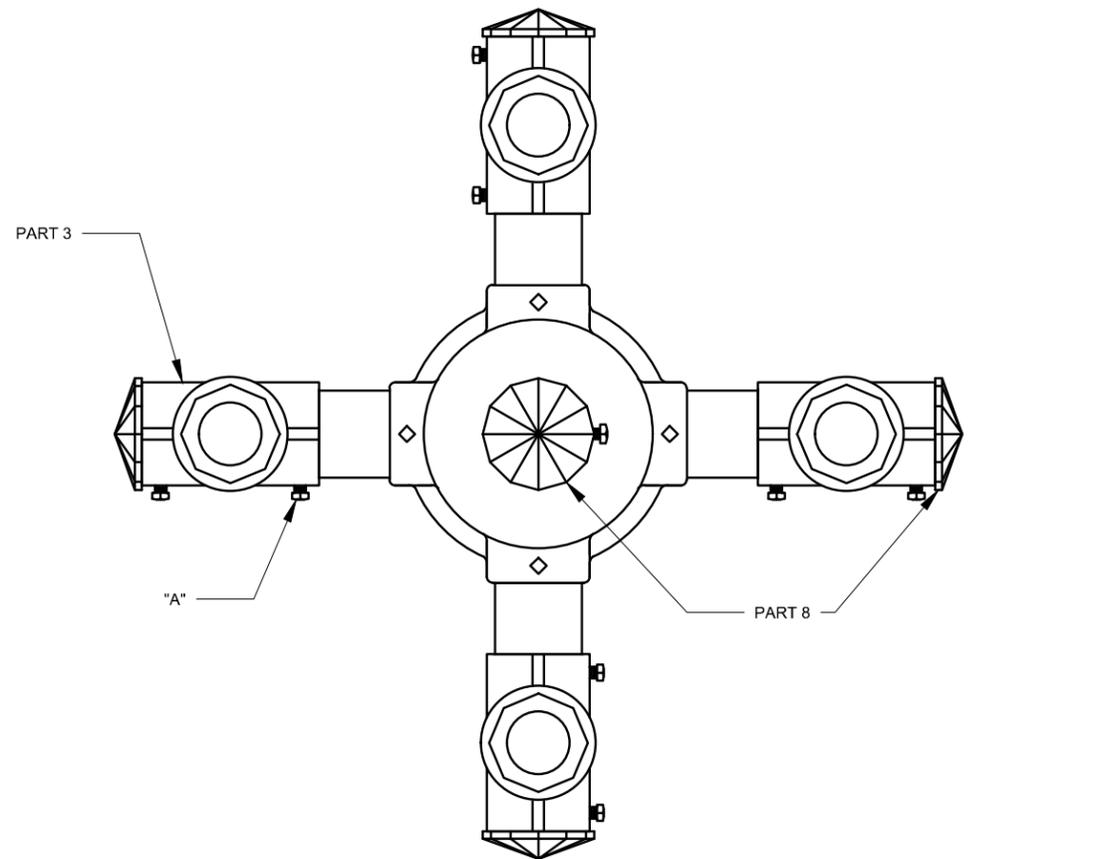
NOTES:

1. SIGNAL HEADS MAY BE ROTATED AROUND CENTERS OF CONNECTIONS.
2. A THIN COAT OF "MOLYKOTE ANTI-SIEZE THREAD COMPOUND" BY DOW CORNING, OR APPROVED EQUAL, SHALL BE USED ON ALL THREADING IN ALUMINUM THREAD CONNECTIONS.

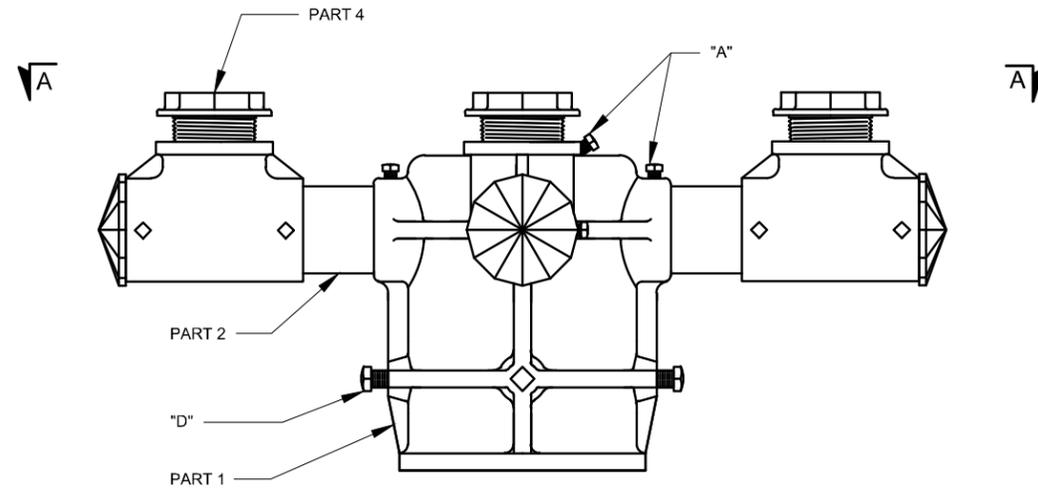
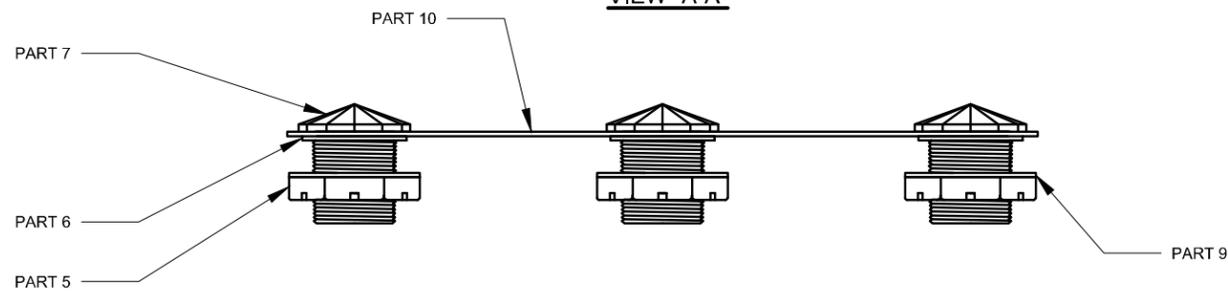


REVISION			
NO	DATE	BY	DESCRIPTION
0	08/2011	GPI	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
SLIPFITTER POLE SIGNAL MOUNTING ASSEMBLY "3SPA"		
SCALE: 3"=1'-0"	OLD DRAWING NO.	DRAWING NO. SE-014_4



VIEW "A-A"



ELEVATION

FOUR-WAY SLIPFITTER ASSEMBLY

PARTS LIST

PART	DESCRIPTION	DRAWING NO.	QTY.
1	DIE CAST AL. SLIP FITTER "4S"	SE-016	1
2	1 1/2"x3 1/4" LONG SCHEDULE 40 AL. PIPE, 11 1/2" NPSM 3/4" THREADED ON BOTH ENDS		
3	1 1/2" DIE CAST AL. SERRATED TEE	SE-007	4
4	1 1/2"x1 3/4" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2A)	SE-009	4
5	1 1/2" DIE CAST AL. PIPE LOCKNUT	SE-010	4
6	1 1/2" DIE CAST AL. SERRATED LOCKING RING	SE-008	4
7	1 1/2"x2" LONG DIE CAST AL. CLOSURE CAP (LC-8-6)	SE-011	4
8	1 1/2"x5/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-4)	SE-011	5
9	NEOPRENE SEAL WASHER 2 3/4"ODx1 7/8"IDx1/8"TH (N.I.C.*)		4
10	FOUR-WAY SIGNAL HEAD STEEL TIE	SE-013	1
A	1/4"-20x1/2" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		13
D	3/8"-16x1" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		4

* - NOT IN CONTRACT (N.I.C.)

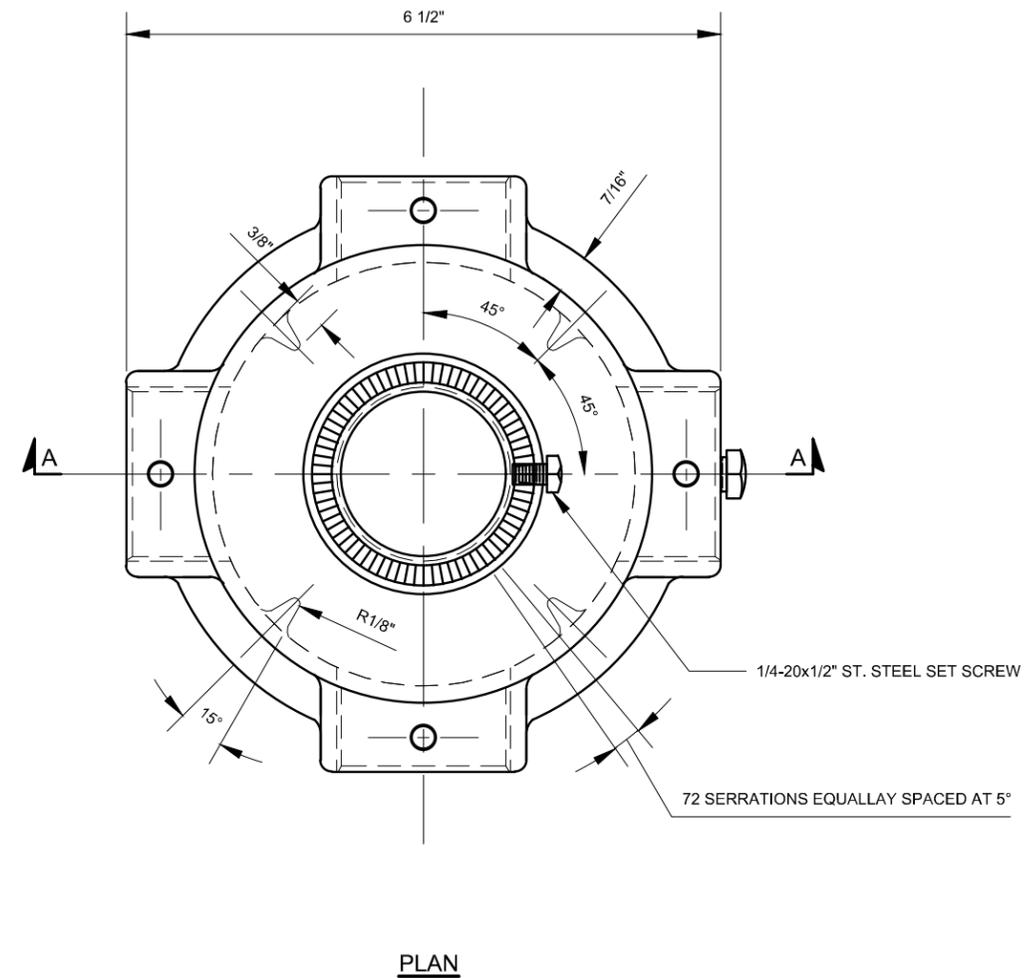
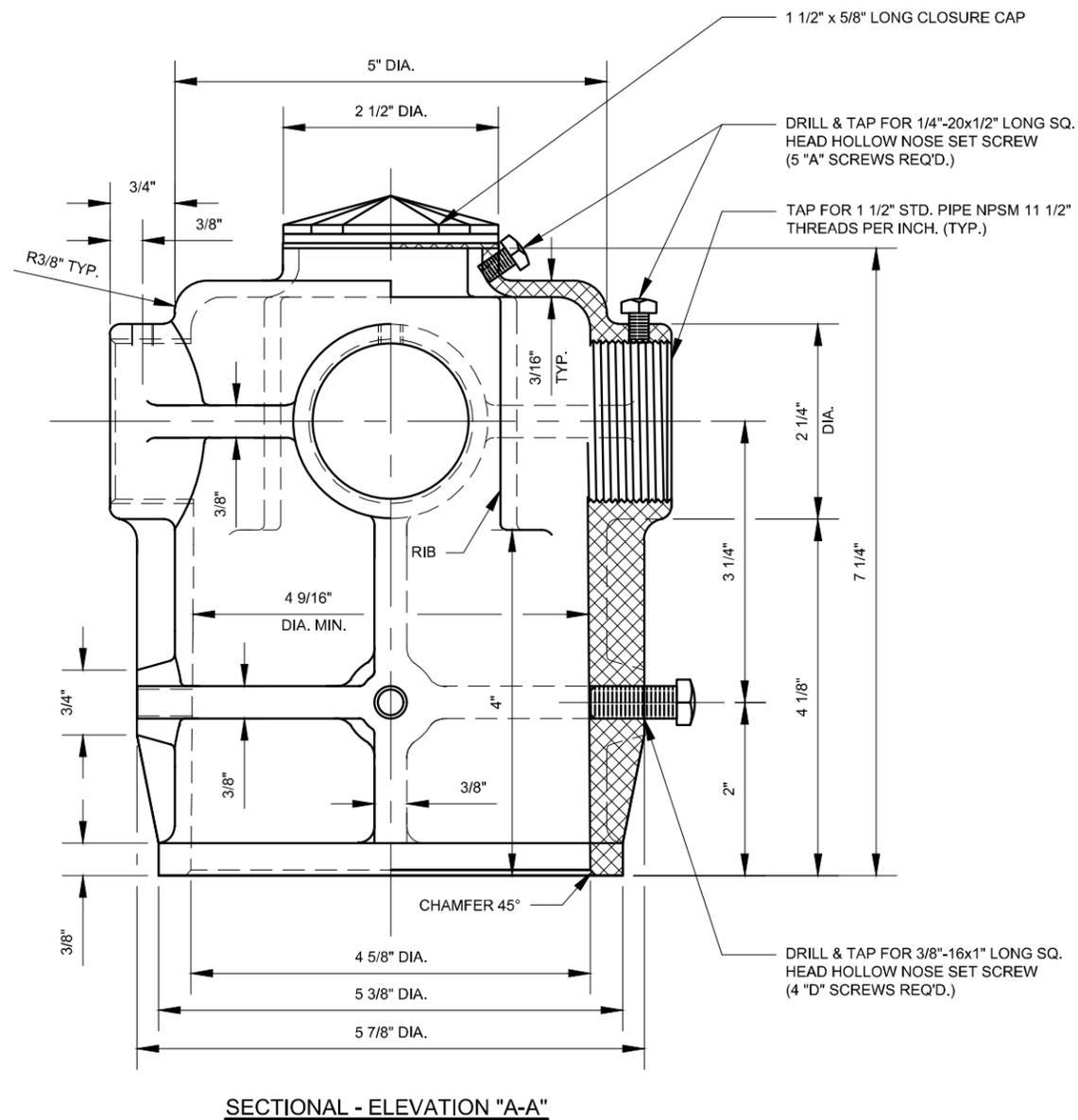
NOTES:

- SIGNAL HEADS MAY BE ROTATED AROUND CENTERS OF CONNECTIONS
- A THIN COAT OF "MOLYKOTE ANTI-SIEZE THREAD COMPOUND" BY DOW CORNING, OR APPROVED EQUAL, SHALL BE USED ON ALL THREADING IN ALUMINUM THREADED CONNECTIONS.



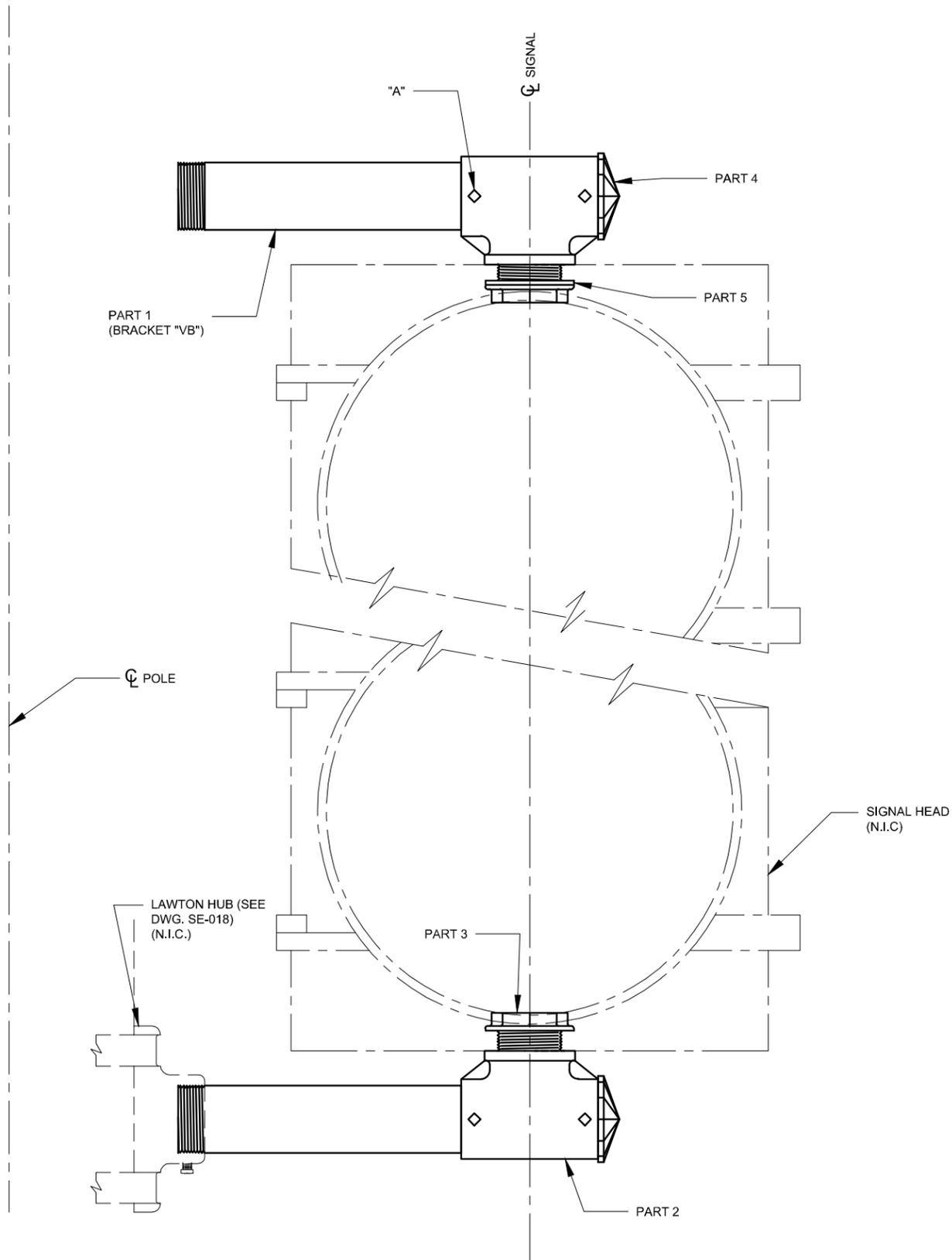
REVISION			
NO	DATE	BY	DESCRIPTION
0	08/2011	GPI	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
SLIPFITTER POLE SIGNAL MOUNTING ASSEMBLY "4SPA"		
SCALE:	OLD DRAWING NO.	DRAWING NO.
3"=1'-0"		SE-014_5



REVISION			
NO	DATE	BY	DESCRIPTION
4	08/2011	GPI	REPLICATED IN CADD
3	4/2011	BMM	CHANGED CAP TO SHORT CAP
2	07/2001	BMM	TRANSFERRED TO CADD
1	10/1970	JY	REVISION
0	01/1967	ADB	LC-313-S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
DIE CAST SLIPFITTER "4S" FOR POLE MOUNTED TRAFFIC SIGNAL ASSEMBLIES "SPA"		
SCALE:	OLD DRAWING NO.	DRAWING NO.
6" = 1'-0"	LC-313-S	SE-016



PARTS LIST			
PART NO.	DESCRIPTION	DRAWING NO.	QTY.
1	1 1/2"x8 3/4" LONG SCHEDULE 40 AL. PIPE, 11 1/2 NPSM 3/4" THREADED ON BOTH ENDS		2
2	1 1/2" DIE CAST AL. SERRATED TEE	SE-007	2
3	1 1/2"x1 3/4" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2A)	SE-009	2
4	1 1/2"x5/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-4)	SE-011	2
5	NEOPRENE SEAL WASHER 2 3/4" ODx1 7/8"TH (N.I.C*)		1
A	1/4"-20x1/2" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		4

* - NOT IN CONTRACT (N.I.C)

NOTES:

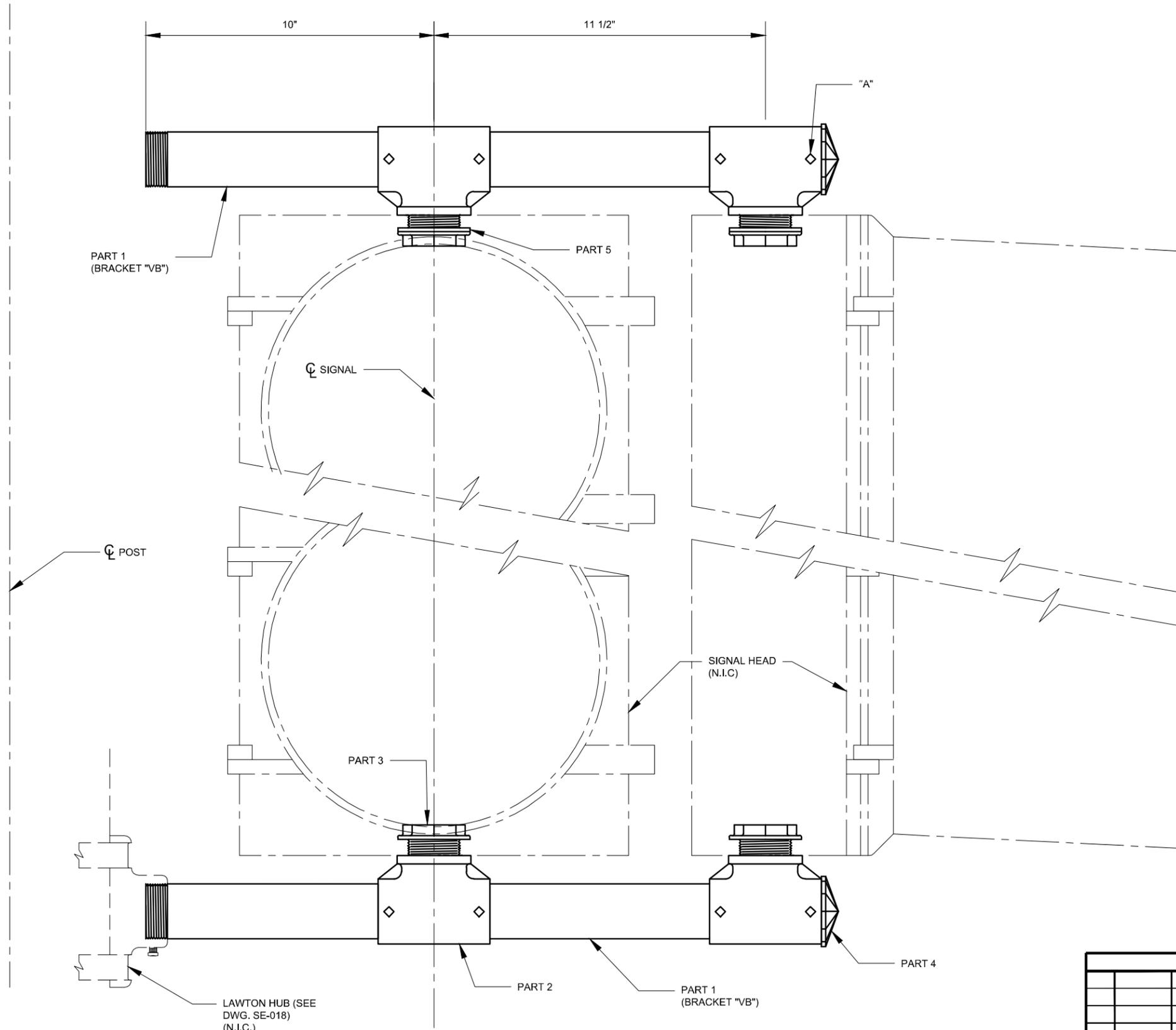
- SIGNAL HOUSING MAY BE ROTATED AROUND CENTER OF CONNECTION.
- A THIN COAT OF "MYLOKOTE ANTI-SIEZE COMPOUND" BY DOW CORNING, OR APPROVED EQUAL, SHALL BE USED ON ALL THREADING IN ALUMINUM THREADED CONNECTIONS.



REVISION			
NO	DATE	BY	DESCRIPTION
1	08/2011	GPI	REPLICATED IN CADD
0	06/2001	BMM	LC-34 CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
BRACKET MOUNTING ASSEMBLY FOR VEHICLE SIGNALS "VB"		
SCALE:	OLD DRAWING NO.	DRAWING NO.
3" = 1'-0"	LC-34	SE-017_1

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



PARTS LIST

PART NO.	DESCRIPTION	DRAWING NO.	QTY.
1	1 1/2"x8 3/4" LONG SCHEDULE 40 AL. PIPE, 11 1/2" NPSM 3/4" THREADED ON BOTH ENDS		4
2	1 1/2" DIE CAST AL. SERRATED TEE	SE-007	4
3	1 1/2"x1 3/4" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2A)	SE-009	2
4	1 1/2"x5/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-4)	SE-011	4
5	NEOPRENE SEAL WASHER 2 3/4" ODx1 7/8"TH (N.I.C*)		2
A	1/4"-20x1 1/2" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		8

* - NOT IN CONTRACT (N.I.C)

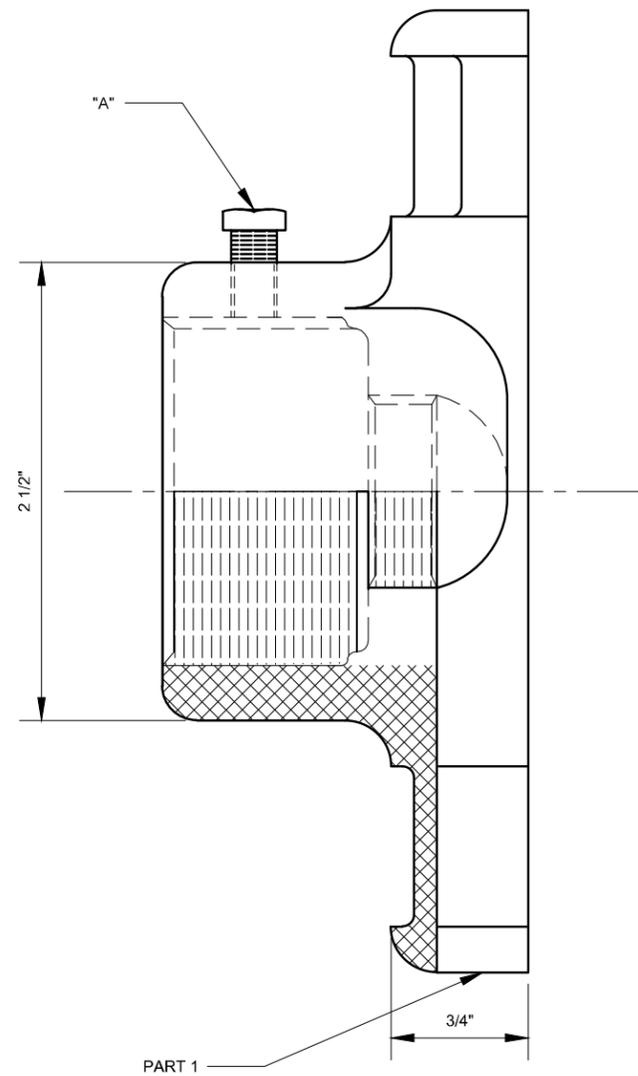
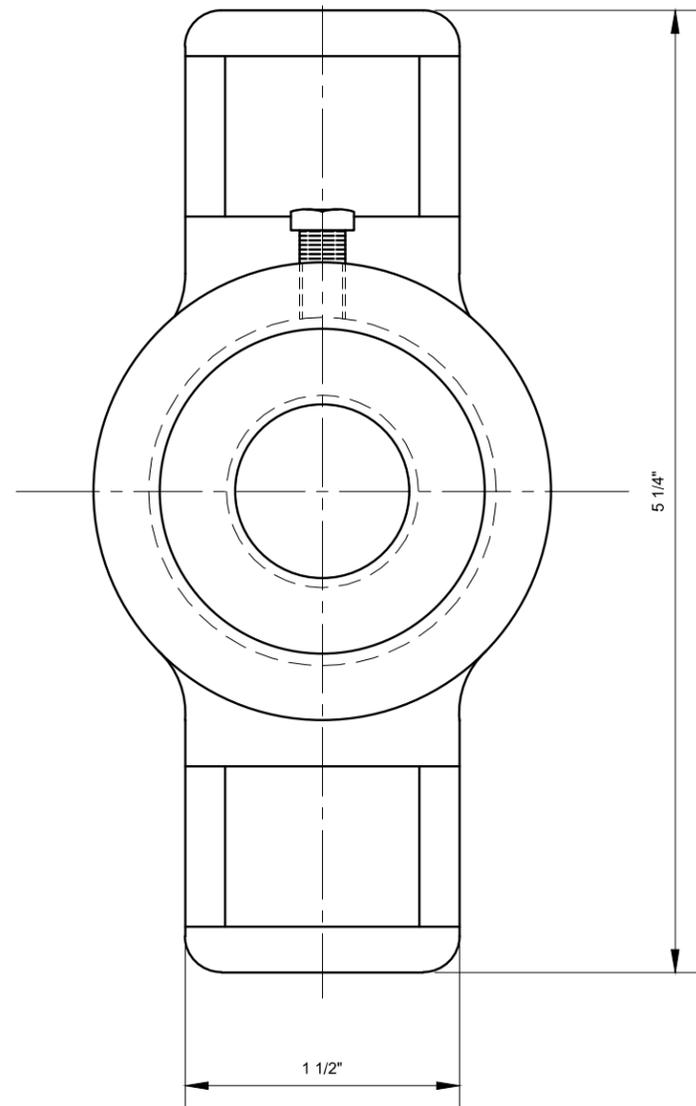
NOTES:

- SIGNAL HOUSING MAY BE ROTATED AROUND CENTER OF CONNECTION.
- A THIN COAT OF "MYLOKOTE ANTI-SIEZE COMPOUND" BY DOW CORNING, OR APPROVED EQUAL, SHALL BE USED ON ALL THREADING IN ALUMINUM THREADED CONNECTIONS.

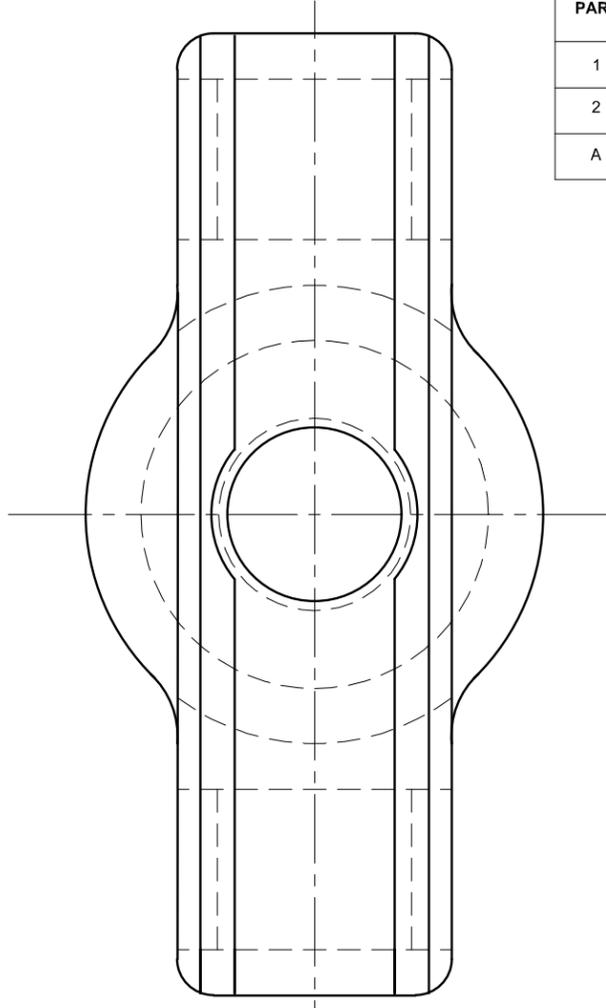
REVISION			
NO	DATE	BY	DESCRIPTION
1	08/2011	GPI	REPLICATED IN CADD
0	06/2001	BMM	LC-34 CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C.,N.Y.11101		
BRACKET MOUNTING ASSEMBLY FOR VEHICLE SIGNALS "2VB"		
SCALE:	OLD DRAWING NO.	DRAWING NO.
3" = 1'-0"	LC-34	SE-017_2



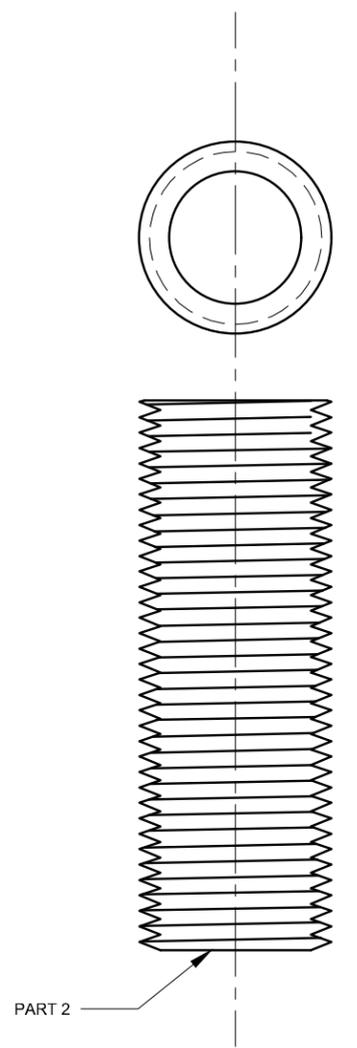


SECTION ELEVATION "A-A"

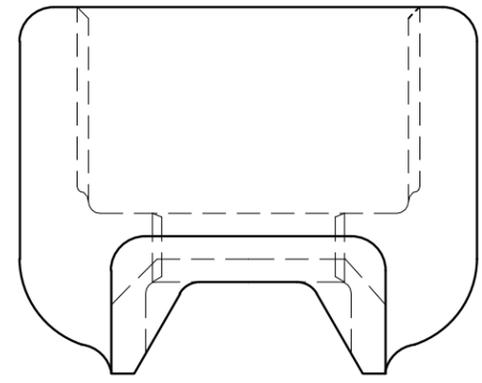


VIEW "B-B"

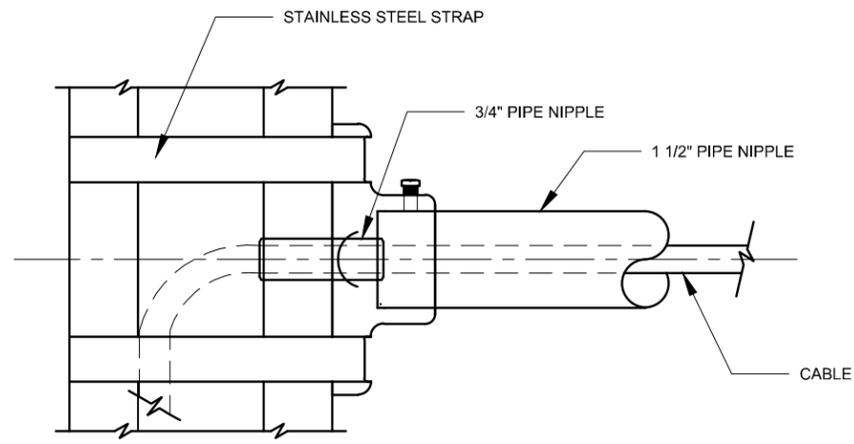
PARTS LIST		
PART	DESCRIPTION	QTY.
1	DIE CAST HUB	2
2	3/4"x3" SCHEDULE 40 ALUM. PIPE THREADED OVER ENTIRE LENGTH 14 NPSM	1
A	1/4"-20x1/2" ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW	2



DETAIL OF 3/4" PIPE NIPPLE
ONE REQUIRED FOR EACH PAIR OF HUB



DETAIL OF HUB



**CONNECTION TO POLE
AT CABLE ENTRANCE**

NOTE:

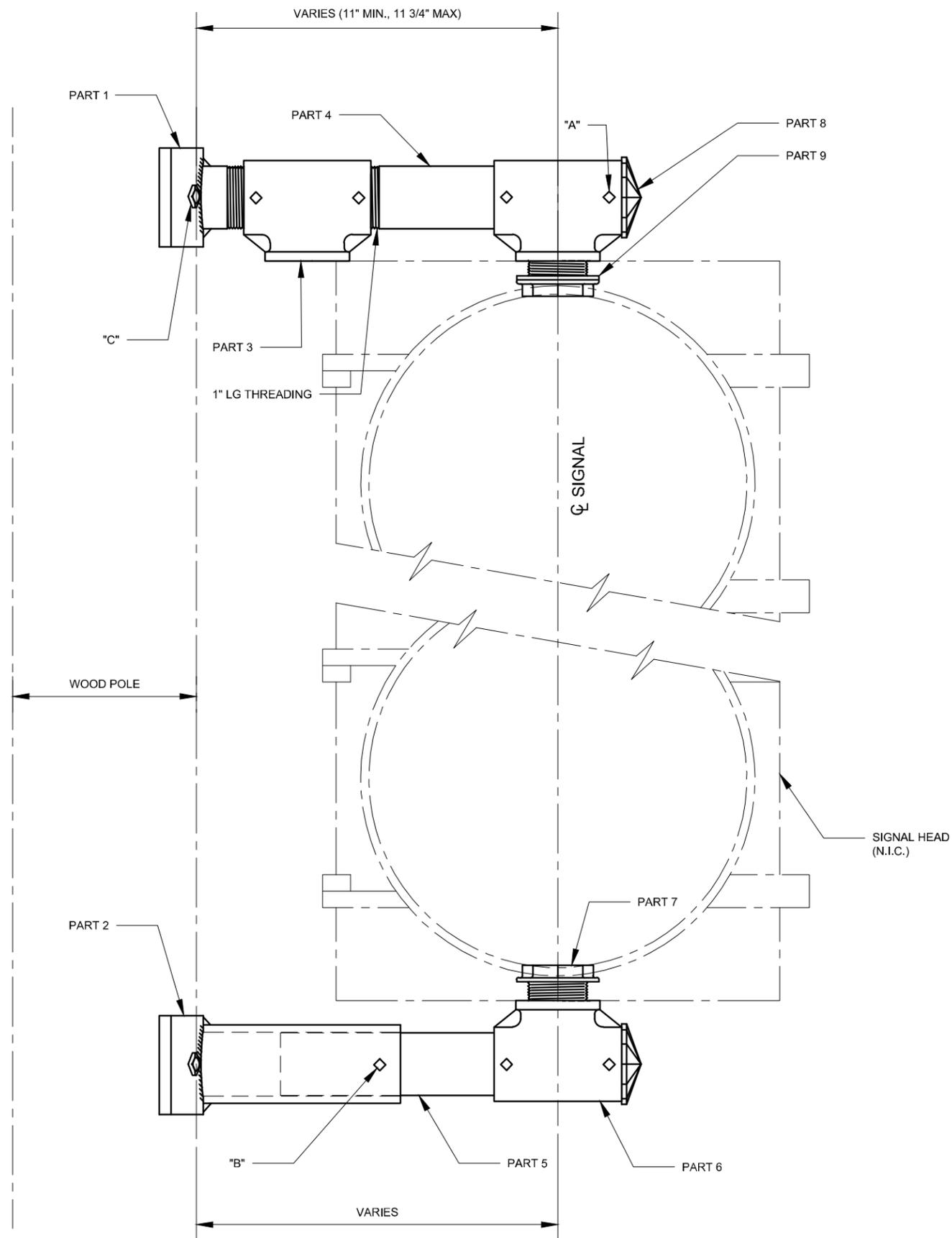
- LAWTON HUB ASSEMBLIES SHOULD BE ORDERED IN PAIRS WITH ONE 3/4" PIPE NIPPLE FOR EACH PAIR.

THIS DRAWING SUPERCEDES DRAWING LC-35 (REV. 8-24-67)



REVISION			
NO	DATE	BY	DESCRIPTION
4	08/2011	GPI	REPLICATED IN CADD
3	09/2001	BMM	TRANSFERRED TO CADD
2	02/1970	JJV	REVISED NOTE
1	10/1968	ADB	ADDED NOTE
0	04/1968	ADB	LB-1175-S CREATD

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
LAWTON HUB ASSEMBLY DETAIL		
SCALE:	OLD DRAWING NO.	DRAWING NO.
1'-0" = 1'-0"	LB-1175-S	SE-018



PARTS LIST			
PART NO.	DESCRIPTION	DRAWING NO.	QTY.
1	TOP BRACKET CONNECTION	SE-019_3	1
2	BOTTOM BRACKET CONNECTION	SE-019_3	1
3	DIE CAST AL. PLAIN TEE	SE-019_3	1
4	1 1/2"x6" LONG SCHEDULE 40 AL. PIPE, 11 1/2 NPSM 3/4" AND 1" THREADED ENDS		1
5	1 1/2"x8" LONG SCHEDULE 40 AL. PIPE, 11 1/2 NPSM 3/4" THREADED ON ONE END		1
6	1 1/2" DIE CAST AL. SERRATED TEE	SE-007	2
7	1 1/2"x1 3/4" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2A)	SE-009	2
8	1 1/2"x1 5/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-4)	SE-011	2
9	NEOPRENE SEAL WASHER 2 3/4"ODx1 7/8"IDx1/8"TH (N.I.C*)		1
A	1/4"-20x1/2" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		6
B	3/8"-16x1" LONG ST. STEEL SQ. HEAD CUP POINT SET SCREW		1
C	1/2"x4" GAL. STEEL LAG SCREW (N.I.C*)		4

* - NOT IN CONTRACT (N.I.C)

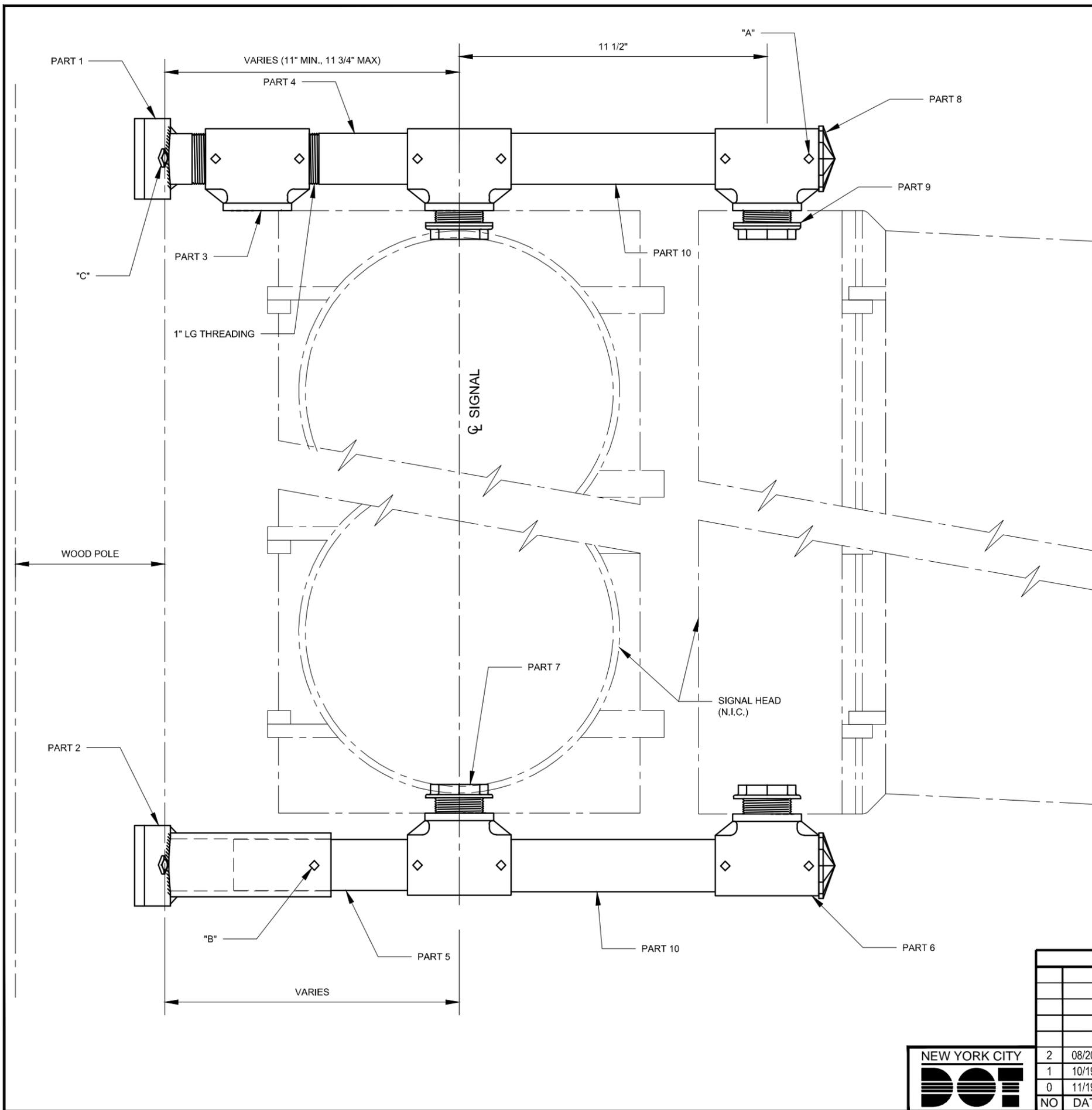
NOTES:

- ALUMINUM PLATES AND PIPING SHALL BE 6061-T6 ALLOY.
- THREADING ON ENDS OF PIPING SHALL BE NPSM THREADING, 11 1/2 THREADS PER INCH, 3/4" LONG, UNLESS OTHERWISE NOTED.
- THREADS TO BE LUBRICATED WITH A THIN COAT OF "MOLYCOTE ANTI-SIEZE THREAD COMPOUND" BY DOW CORNING CORP. OR APPROVED EQUAL.



REVISION			
NO	DATE	BY	DESCRIPTION
2	08/2011	GPI	REPLICATED IN CADD
1	10/1974	JBC	CHANGED TITLES, NOTES AND PARTS LIST
0	11/1966	JBC	LC-310-S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
BRACKET MOUNTING ASSEMBLY FOR VEHICLE SIGNALS ON WOOD POLES "WP"		
SCALE:	OLD DRAWING NO.	DRAWING NO.
3" = 1'-0"	LC-310-S	SE-019_1



PARTS LIST			
PART NO.	DESCRIPTION	DRAWING NO.	QTY.
1	TOP BRACKET CONNECTION	SE-019_3	1
2	BOTTOM BRACKET CONNECTION	SE-019_3	1
3	DIE CAST AL. PLAIN TEE	SE-019_3	1
4	1 1/2"x6" LONG SCHEDULE 40 AL. PIPE, 11 1/2 NPSM 3/4" AND 1" THREADED ENDS		1
5	1 1/2"x8" LONG SCHEDULE 40 AL. PIPE, 11 1/2 NPSM 3/4" THREADED ON ONE END		1
6	1 1/2" DIE CAST AL. SERRATED TEE	SE-007	4
7	1 1/2"x1 3/4" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2A)	SE-009	4
8	1 1/2"x5/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-4)	SE-011	2
9	NEOPRENE SEAL WASHER 2 3/4"ODx1 7/8"IDx1/8"TH (N.I.C*)		2
10	1 1/2"x8 3/4" LONG SCHEDULE 40 AL. PIPE, 11 1/2 NPSM 3/4" THREADED ON BOTH ENDS		2
A	1/4"-20x1/2" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		10
B	3/8"-16x1" LONG ST. STEEL SQ. HEAD CUP POINT SET SCREW		1
C	1/2"x4" GAL. STEEL LAG SCREW (N.I.C*)		4

* - NOT IN CONTRACT (N.I.C)

NOTES:

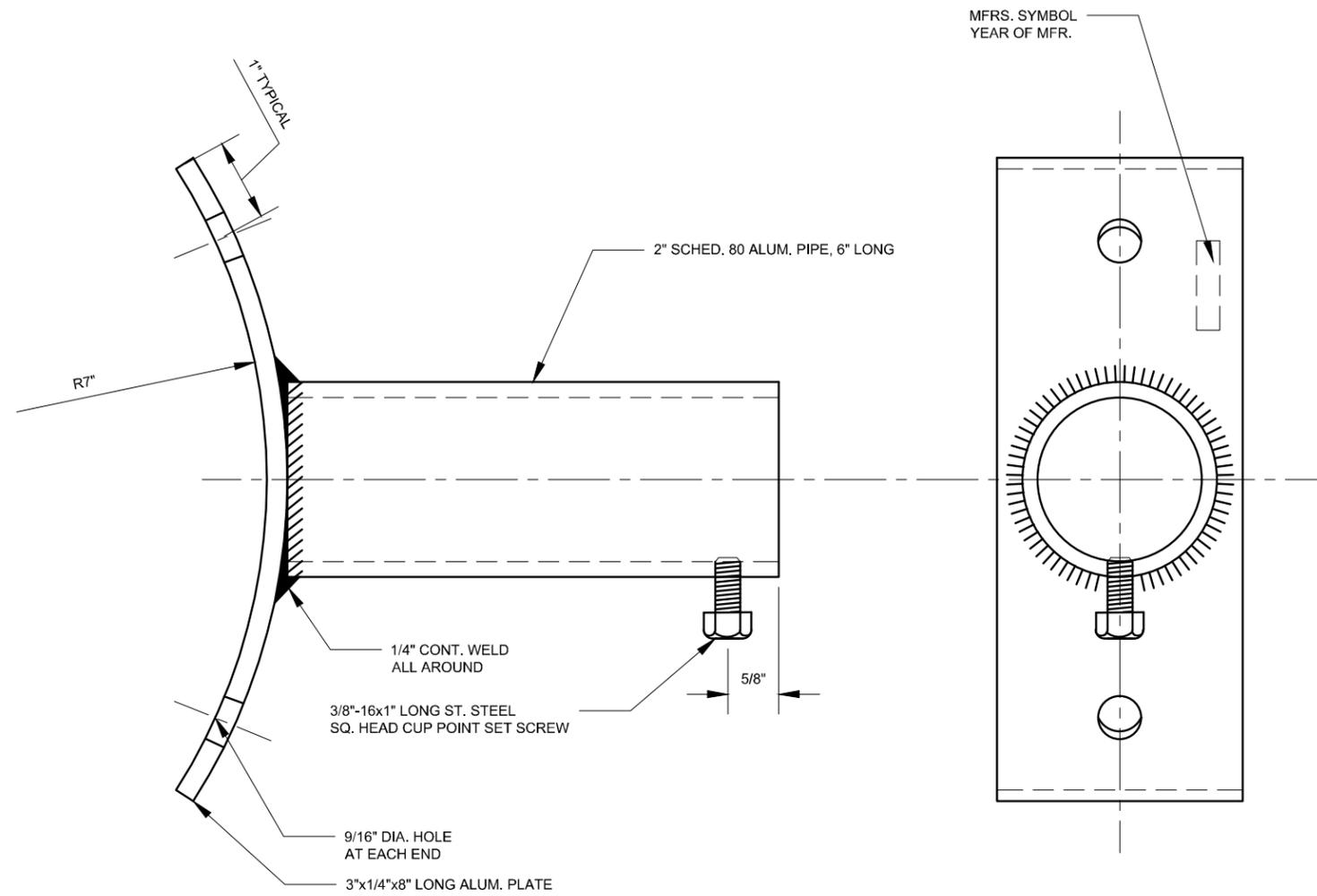
- ALUMINUM PLATES AND PIPING SHALL BE 6061-T6 ALLOY.
- THREADING ON ENDS OF PIPING SHALL BE NPSM THREADING, 11 1/2 THREADS PER INCH, 3/4" LONG, UNLESS OTHERWISE NOTED.
- THREADS TO BE LUBRICATED WITH A THIN COAT OF "MOLYCOTE ANTI-SIEZE THREAD COMPOUND" BY DOW CORNING CORP. OR APPROVED EQUAL.



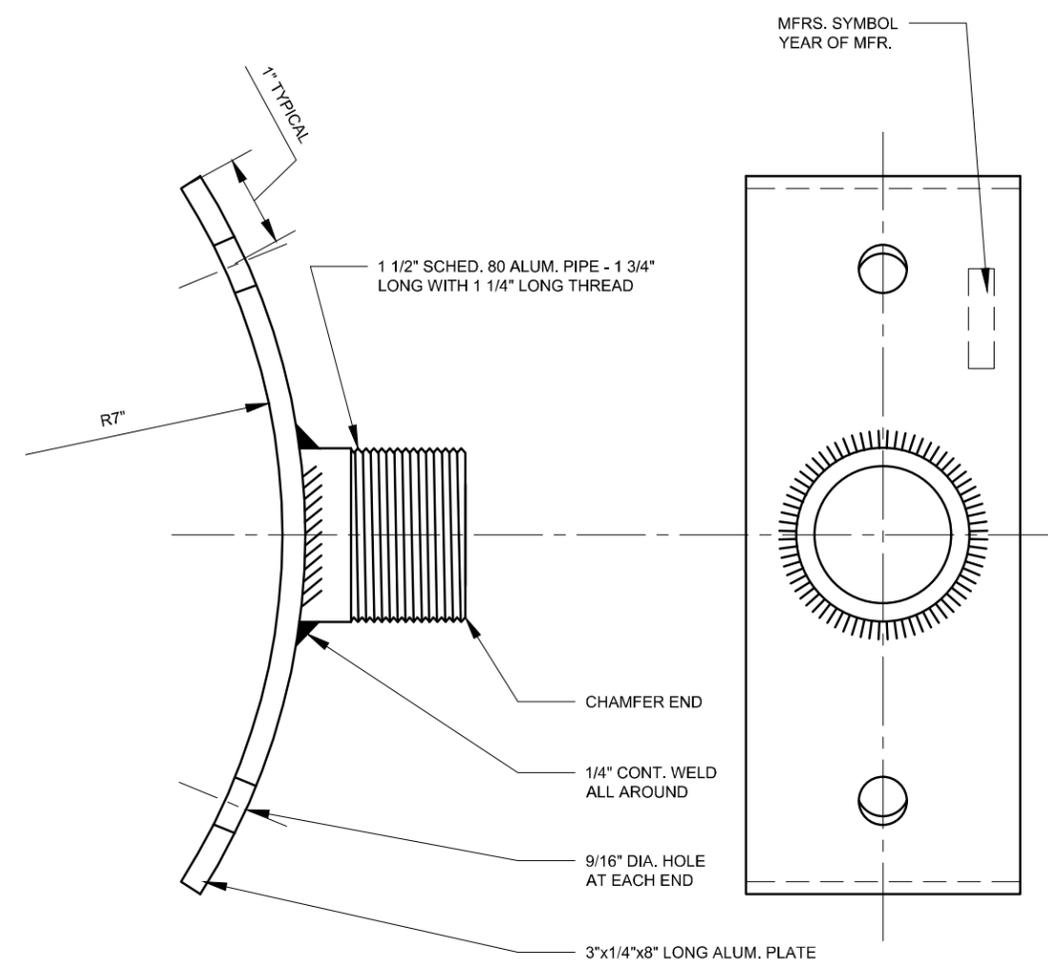
REVISION			
NO	DATE	BY	DESCRIPTION
2	08/2011	GPI	REPLICATED IN CADD
1	10/1974	JBC	CHANGED TITLES, NOTES AND PARTS LIST
0	11/1966	JBC	LC-310-S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
BRACKET MOUNTING ASSEMBLY FOR VEHICLE SIGNALS ON WOOD POLES "2WP"		
SCALE:	OLD DRAWING NO.	DRAWING NO.
3" = 1'-0"	LC-310-S	SE-019_2

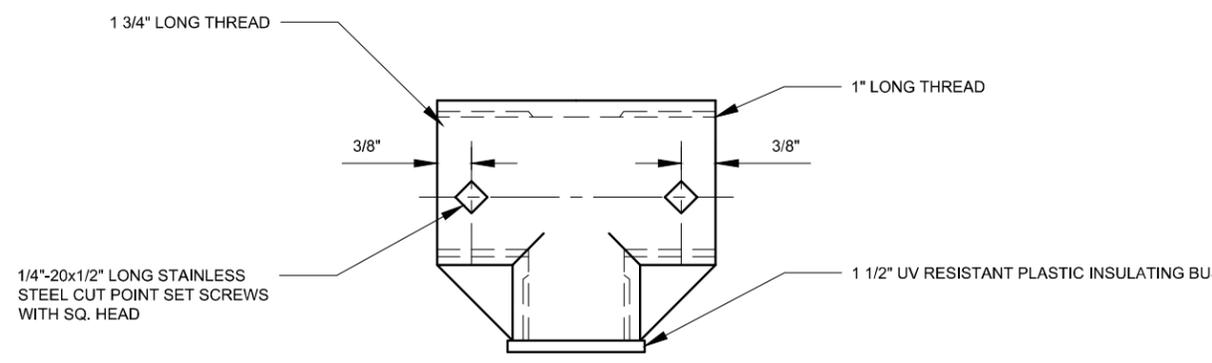
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



BOTTOM BRACKET CONNECTION



TOP BRACKET CONNECTION



1 1/2" STANDARD PLAIN TEE

NOTES:

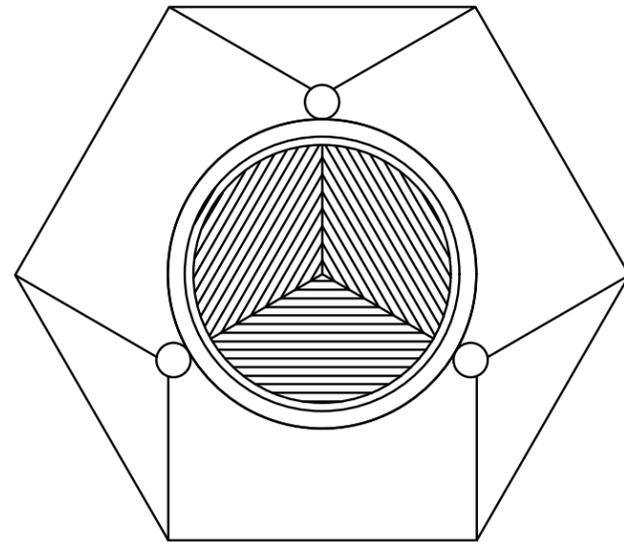
1. ALUMINUM PIPE AND PLATES SHALL BE 6061-T6 ALLOY.
2. PIPE THREADING SHALL BE NPSM THREADING, 11 1/2 THREADS PER INCH.
3. WELDING SHALL BE HELIARC WELDING.
4. PAINT POWDER COAT BRACKET PER FED SPEC.
5. PLAIN TEE COULD BE SUBSTITUTED WITH 1 1/2" DIE CAST AL. SERRATED TEE AND 1 1/2" THREADED HIGH IMPACT PLASTIC INSULATING BUSHING O-Z/GEDNEY'S # BB-150 OR EQUAL.



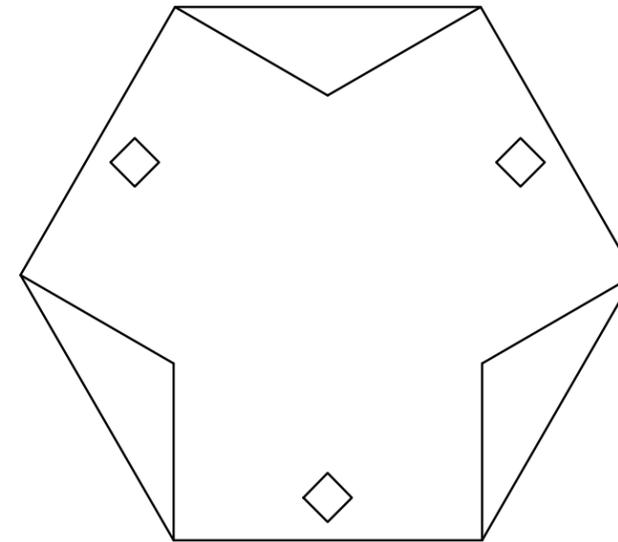
REVISION			
NO	DATE	BY	DESCRIPTION
2	08/2011	GPI	REPLICATED IN CADD
1	06/1967	ADB	ADDED PLAIN TEE DETAIL
0	11/1966	ADB	LB-1022-S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
POLE CONNECTIONS FOR WOOD POLE BRACKETS "WP"		
SCALE:	OLD DRAWING NO.	DRAWING NO.
6" = 1'-0"	LB-1022-S	SE-019_3

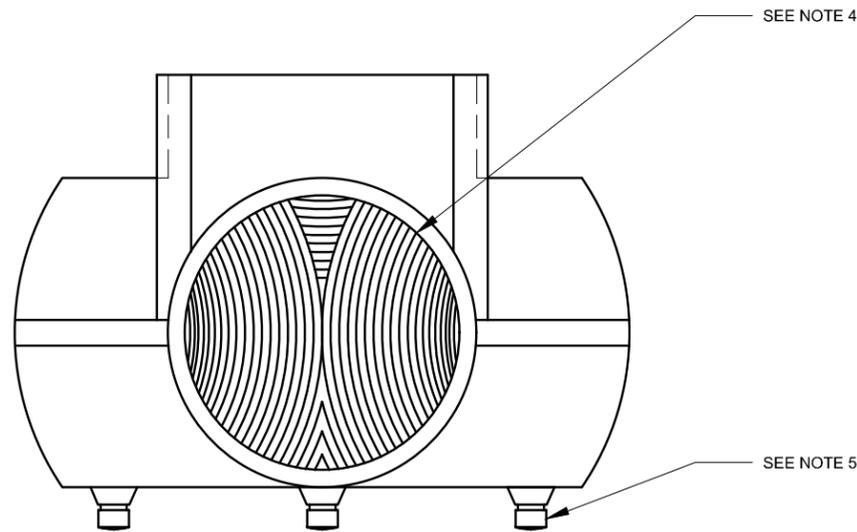
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



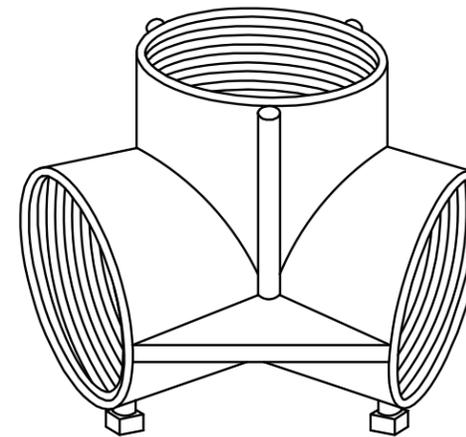
TOP VIEW



BOTTOM VIEW



FRONT VIEW
SLIP "Y" FITTING



ISOMETRIC VIEW
N.T.S.

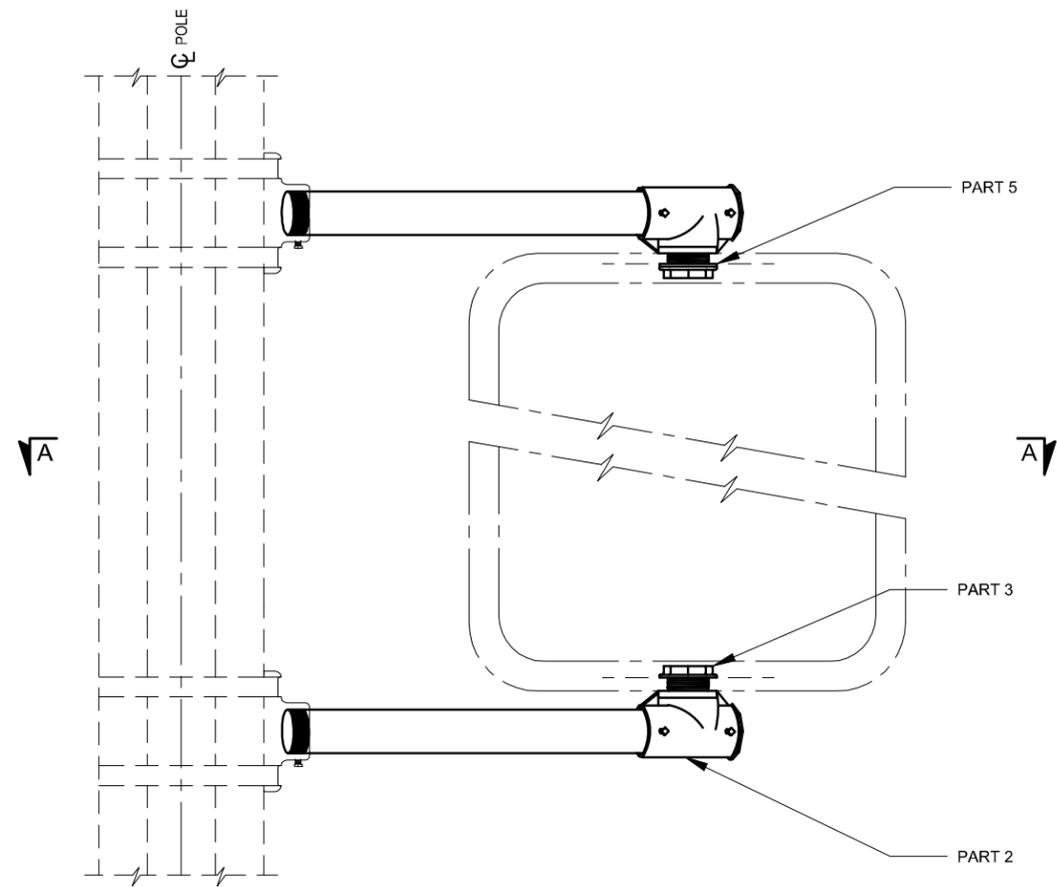
NOTES:

1. NYC DESIGNATION "VB-2P".
2. 47,000 PSI TENSILE STRENGTH AND DIE-CAST ALUMINUM CONSTRUCTION ON FITTINGS.
3. CHASE NIPPLES AVAILABLE IN ALUMINUM, BRONZE & CAST IRON.
4. TAPPED 1 1/2"-11 1/2" NPSM.
5. 1/4"-20x1/2" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW ON ALL 1 1/2" OPENINGS.
6. PAINT BRACKET POWDER-COATED PER FED SPEC 595B#13538.

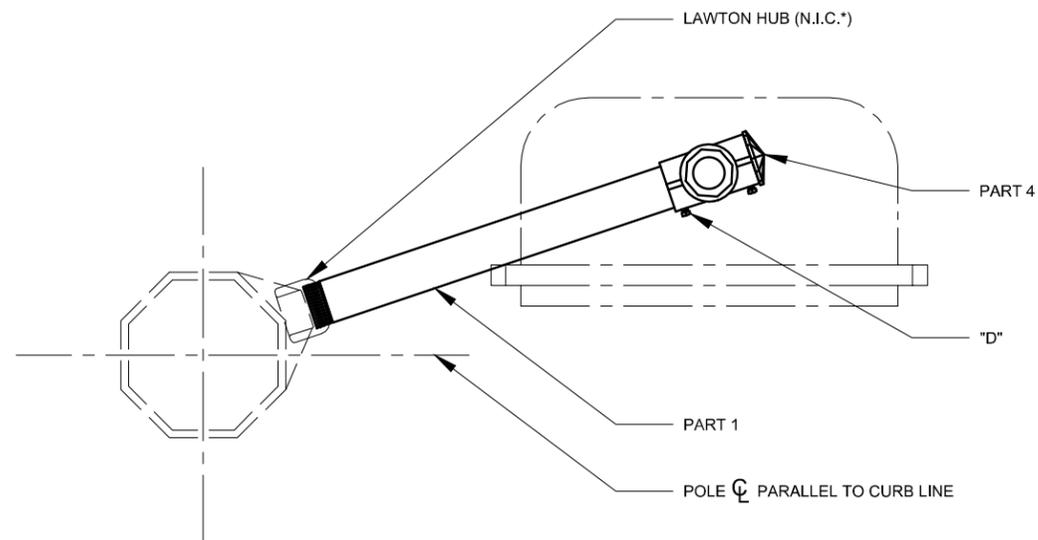


REVISION			
NO	DATE	BY	DESCRIPTION
0	12/2011	GPI	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
120 DEGREE SLIP "Y" FITTING		
SCALE:	OLD DRAWING NO.	DRAWING NO.
9"=1'-0"		SE-020



ELEVATION



SECTION "A-A"

PARTS LIST			
PART NO.	DESCRIPTION	DRAWING NO.	QTY.
1	1 1/2"x17" LONG SCHEDULE 80 AL. PIPE, 11 1/2 NPSM 3/4" THREADED ON BOTH ENDS		2
2	1 1/2" DIE CAST AL. SERRATED TEE	SE-007	2
3	1 1/2"x1 3/8" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2)	SE-009	2
4	1 1/2"x5/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-4)	SE-011	2
5	NEOPRENE SEAL WASHER 2 3/4" OD x 1 7/8" ID x 1/8" TH (FOR TOP BRACKET ONLY) (N.I.C.*)		1
"D"	1/4"-20x1/2" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		4

* - NOT IN CONTRACT (N.I.C)

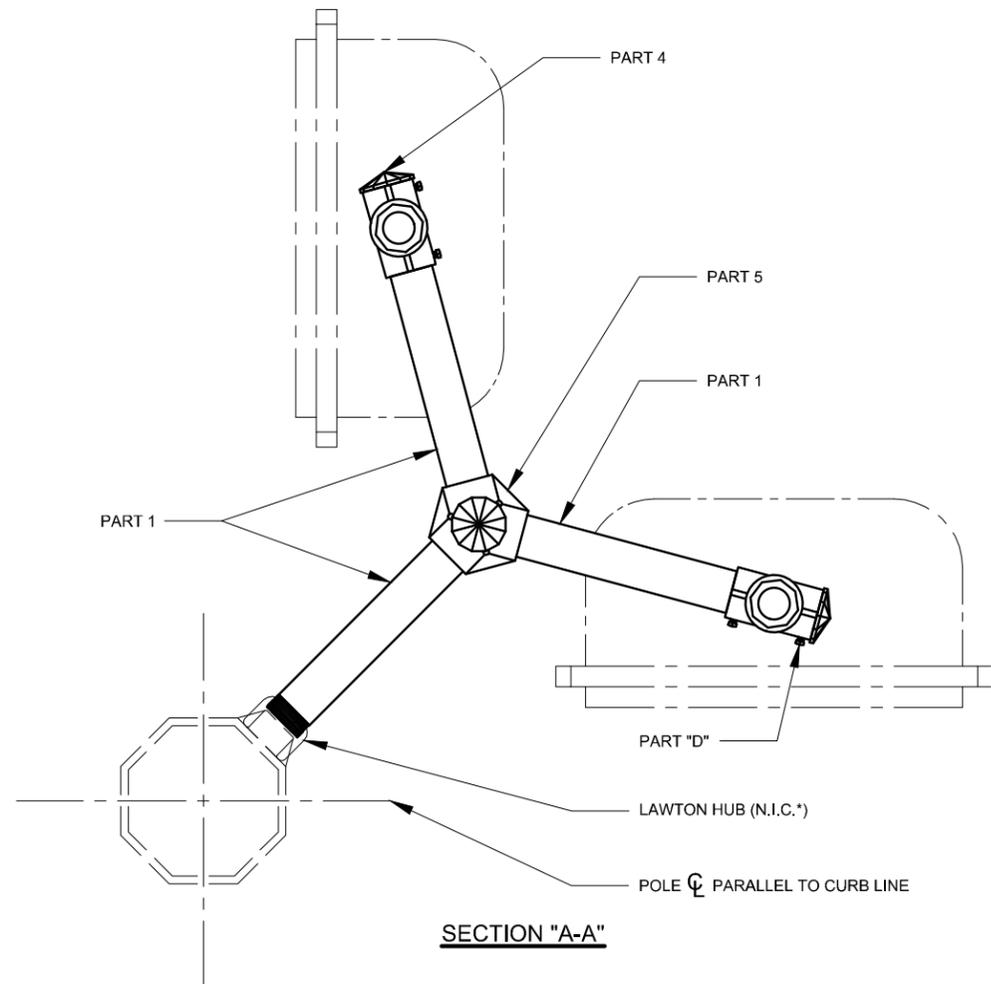
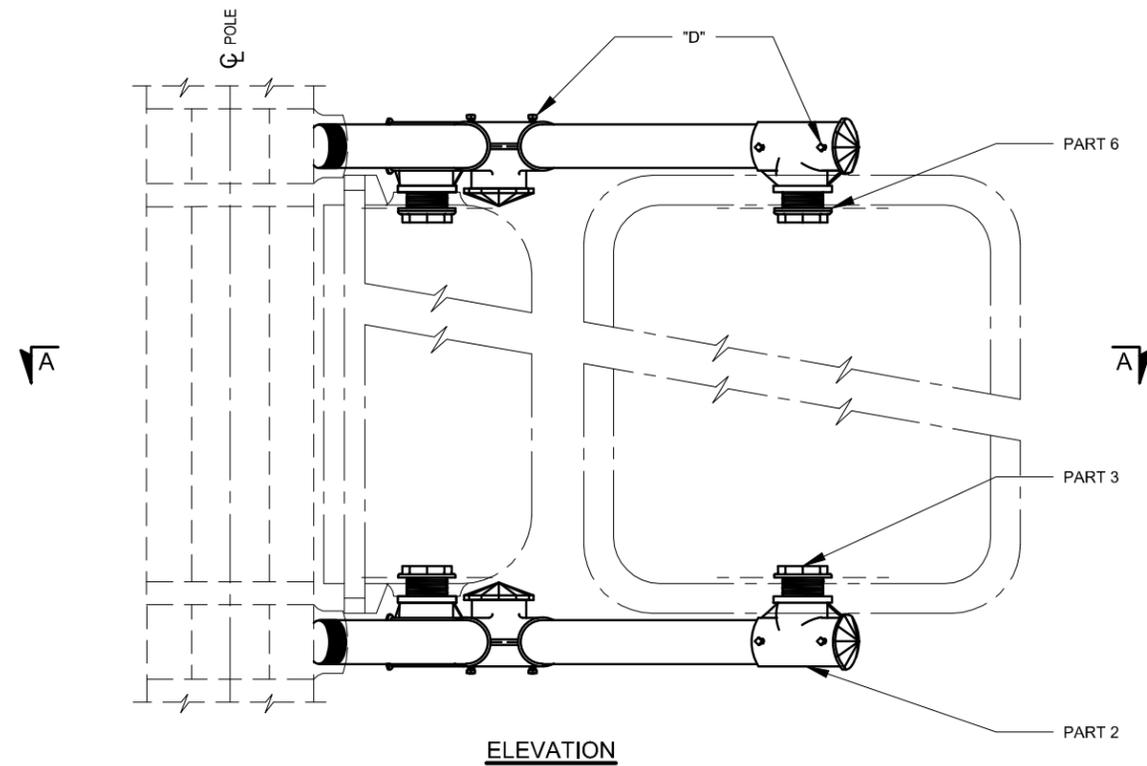
NOTES:

1. SIGNAL HOUSING MAY BE ROTATED AROUND CENTER OF CONNECTION.
2. A THIN COAT OF "MOLYKOTE ANTI SEIZE THREAD COMPOUND" BY DOW CORNING, OR APPROVED EQUAL **SHALL** BE USED ON ALL THREADING IN ALUMINUM THREADED CONNECTIONS.



REVISION			
NO	DATE	BY	DESCRIPTION
4	3/2012	GPI	REPLICATED IN CADD
3	6/1973	JBC	CHANGE TITLE, NOTES & PART LIST
2	12/1970	JV	CHANGED NOTE 2
1	03/1968	ADB	REVISED AND REDRAWN
0	03/1968	ADB	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
PEDESTRIAN SIGNAL MOUNTING ASSEMBLY "VB-P"		
SCALE:	OLD DRAWING NO.	DRAWING NO.
1 1/2" = 1'-0"	LC-341-S	SE-021_1



PARTS LIST			
PART NO.	DESCRIPTION	DRAWING NO.	QTY.
1	1 1/2"x11" LONG SCHEDULE 80 AL. PIPE, 11 1/2 NPSM 3/4" THREADED ON BOTH ENDS		6
2	1 1/2" DIE CAST AL. SERRATED TEE	SE-007	4
3	1 1/2"x1 3/8" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2)	SE-009	4
4	1 1/2"x5/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-4)	SE-011	6
5	120 DEGREE "Y" FITTING	SE-020	2
6	NEOPRENE SEAL WASHER 2 3/4" OD x 1 7/8" ID x 1/8" TH (FOR TOP BRACKET ONLY) (N.I.C.*)		2
"D"	1/4"-20x1/2" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		14

* - NOT IN CONTRACT (N.I.C)

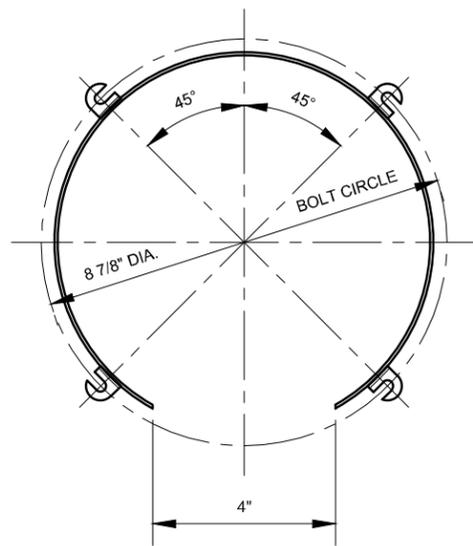
NOTES:

1. SIGNAL HOUSING MAY BE ROTATED AROUND CENTER OF CONNECTION.
2. A THIN COAT OF "MOLYKOTE ANTI SEIZE THREAD COMPOUND" BY DOW CORNING, OR APPROVED EQUAL **SHALL** BE USED ON ALL THREADING IN ALUMINUM THREADED CONNECTIONS.

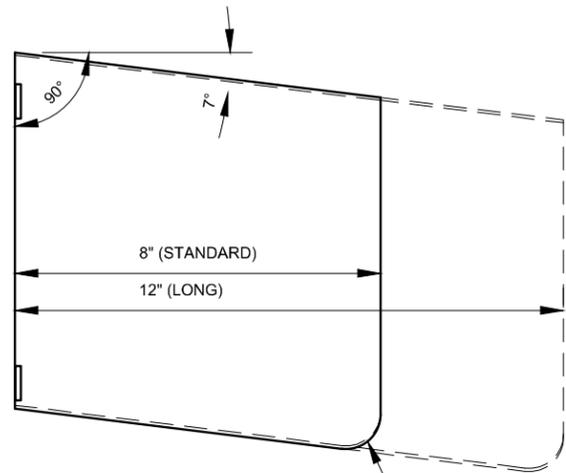


REVISION				DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
4	3/2012	GPI	REPLICATED IN CADD	PEDESTRIAN SIGNAL MOUNTING ASSEMBLY "VB-2P"		
3	6/1973	JBC	CHANGE TITLE, NOTES & PART LIST			
2	12/1970	JV	CHANGED NOTE 2	SCALE:	OLD DRAWING NO.	DRAWING NO.
1	03/1968	ADB	REVISED AND REDRAWN	1 1/2" = 1'-0"	LC-341-S	SE-021_2
0	03/1968	ADB	CREATED			
NO	DATE	BY	DESCRIPTION			

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



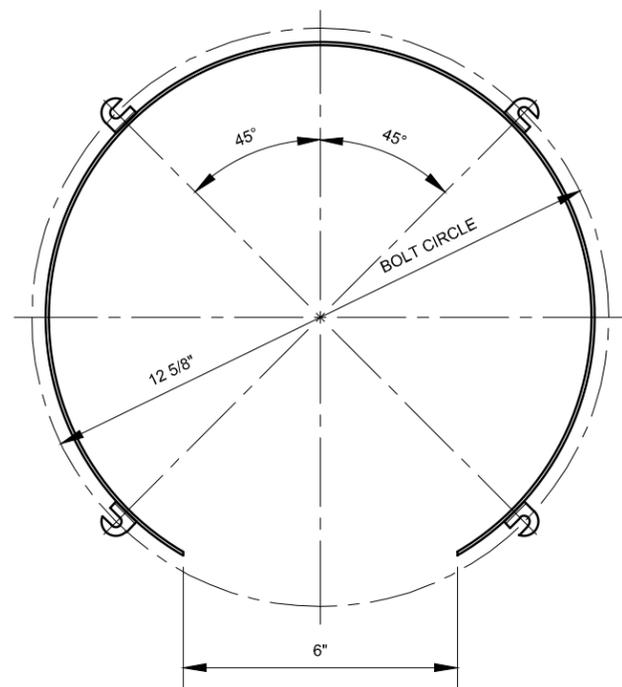
END VIEW



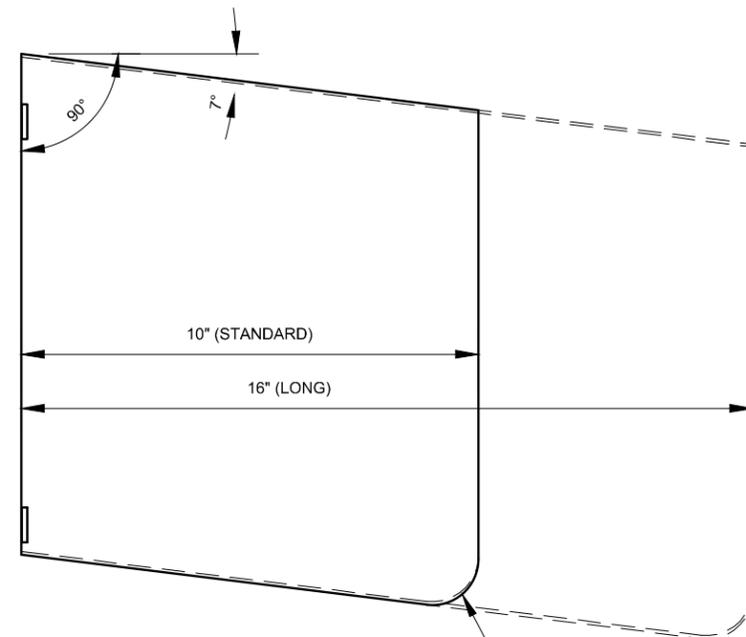
SIDE VIEW

ROUND OUTSIDE
CORNERS - 3/4" RADIUS

DETAIL OF 8" VISORS



END VIEW



SIDE VIEW

ROUND OUTSIDE
CORNERS - 1" RADIUS

DETAIL OF 12" VISORS

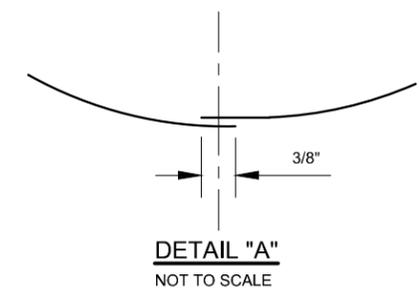
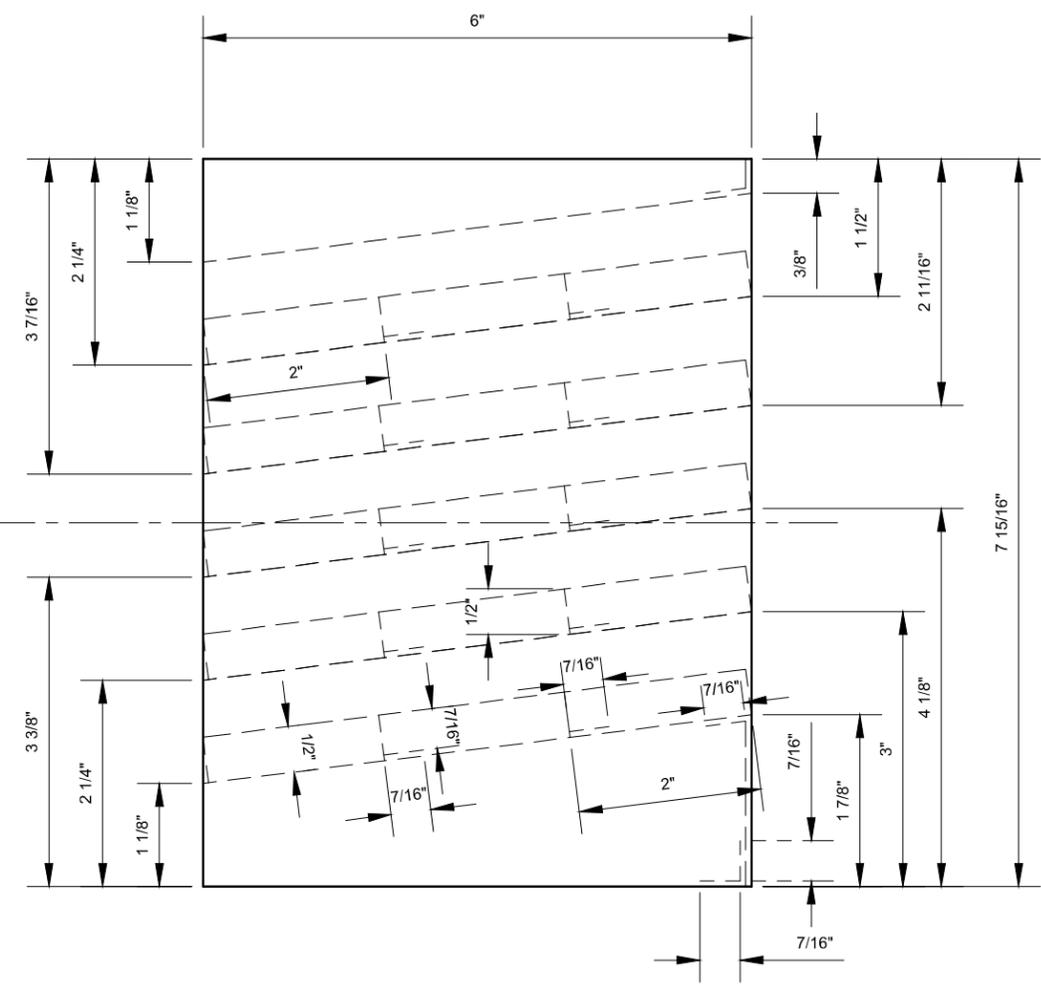
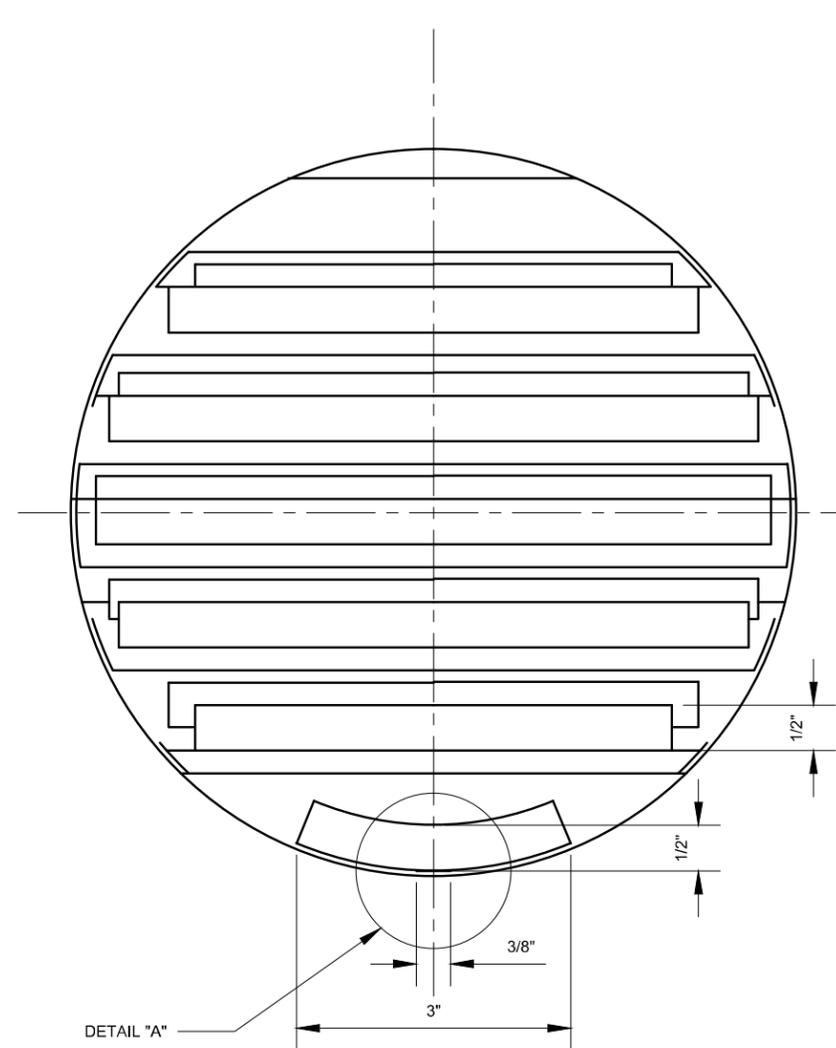
NOTES:

- VISOR LENGTH SHOULD BE DETERMINED AS PER ENGINEER.



REVISION			
NO	DATE	BY	DESCRIPTION
2	03/2012	GPI	REPLICATED IN CADD
1	05/2006	VS	REVISION; VOID LG-163-S
0	04/1964	CL	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
TUNNEL SIGNAL HEAD VISORS		
SCALE:	OLD DRAWING NO.	DRAWING NO.
3"=1'-0"	LG-127-5 LB-14248S	SE-022



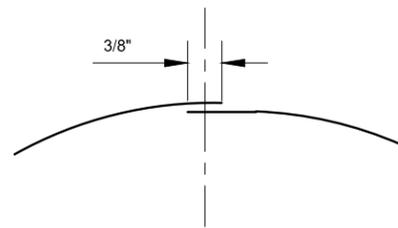
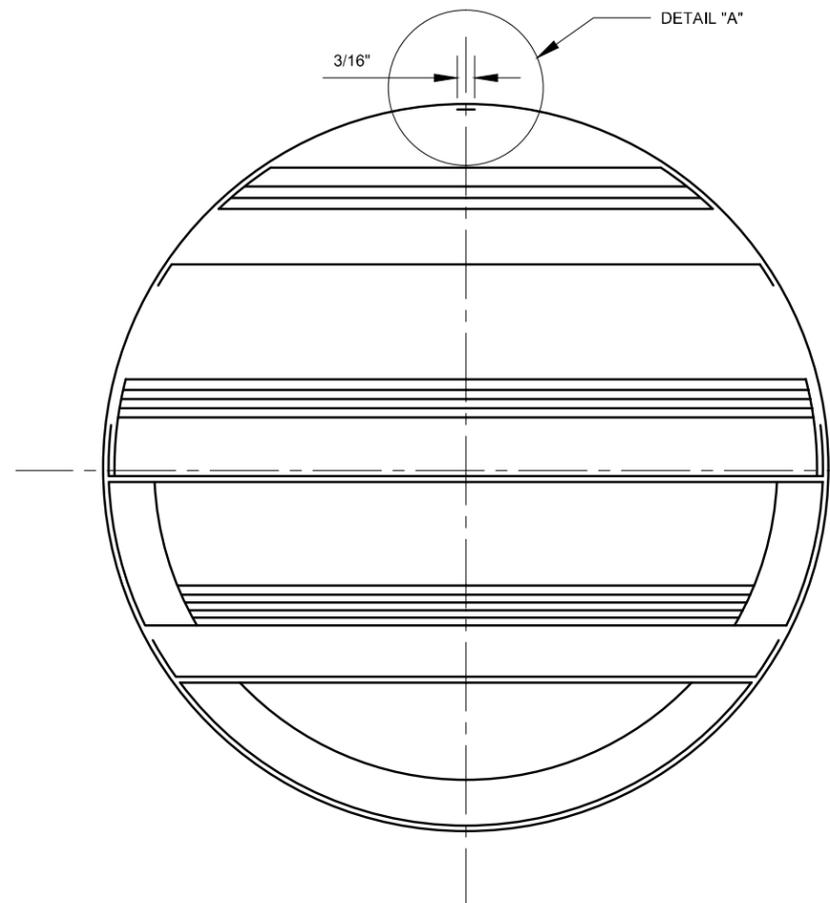
NOTES:

1. ALL SURFACES OF PARTS SHOULD BE SPRAYED WITH BLACK FLAT PAINT.
2. TOLERANCES SHOULD BE $\pm 1/16"$ UNLESS OTHERWISE SPECIFIED.
3. MATERIAL: ROLLED PLATE. THICKNESS = 0.02".

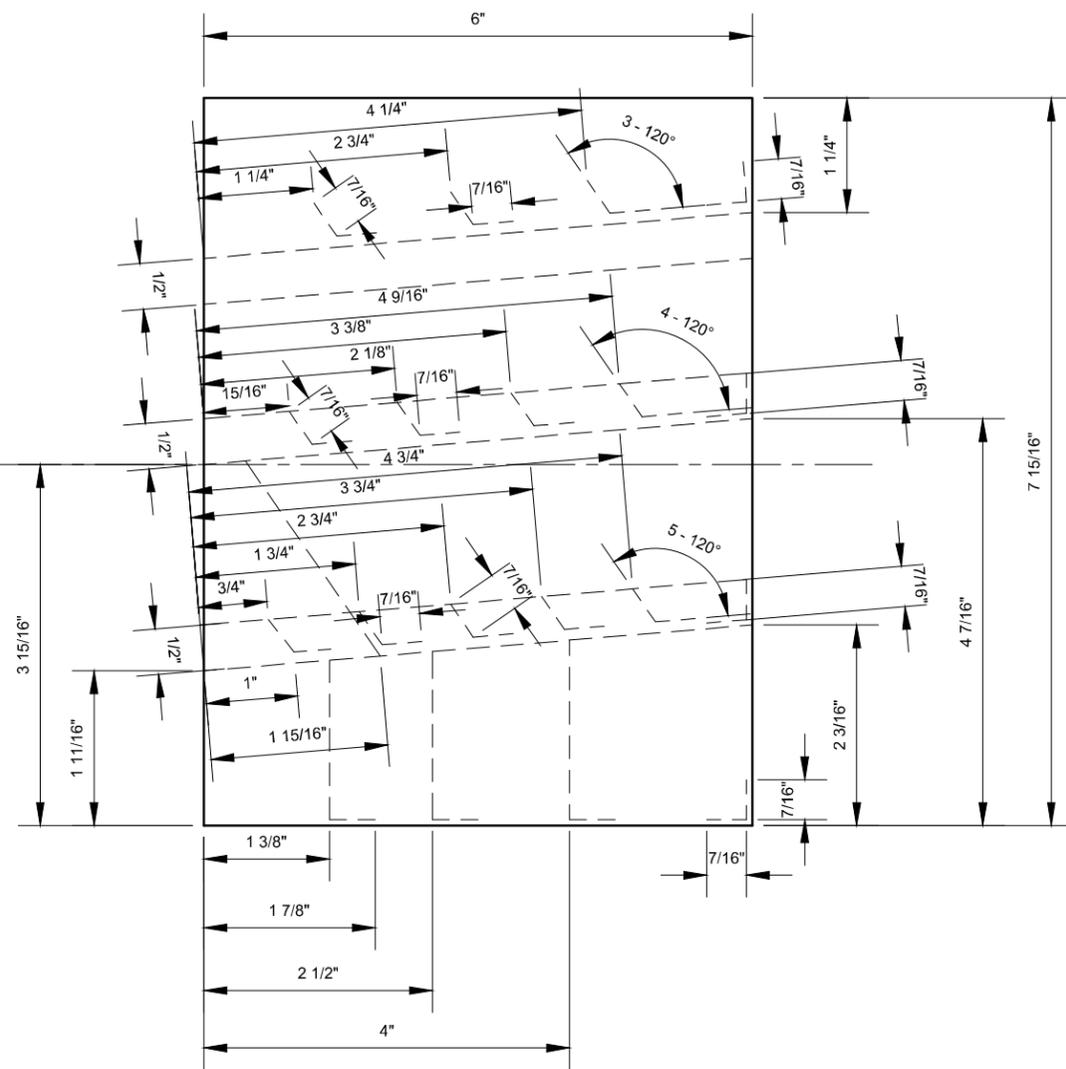


REVISION			
NO	DATE	BY	DESCRIPTION
1	03/2012	GPI	REPLICATED IN CADD
0	10/2006	NJ	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
LOUVERS - 3 DEGREES		
SCALE:	OLD DRAWING NO.	DRAWING NO.
6" = 1'-0"	LB-14333S	SE-023_1



DETAIL "A"
NOT TO SCALE



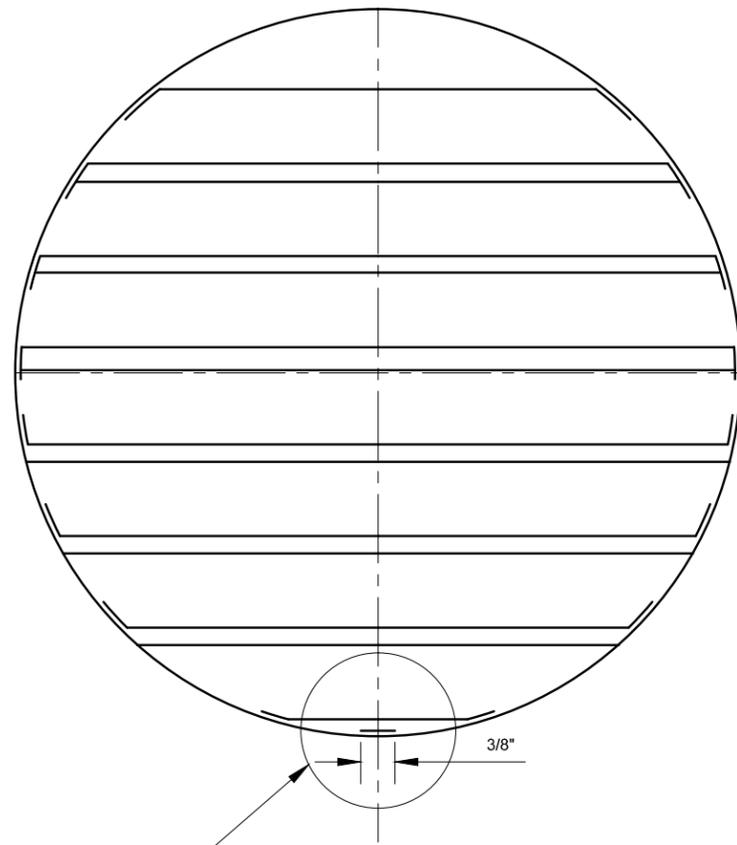
NOTES:

1. ALL SURFACES OF PARTS SHOULD BE SPRAYED WITH BLACK FLAT PAINT.
2. TOLERANCES SHOULD BE $\pm 1/16$ " UNLESS OTHERWISE SPECIFIED.
3. MATERIAL: ROLLED PLATE. THICKNESS = 0.02".

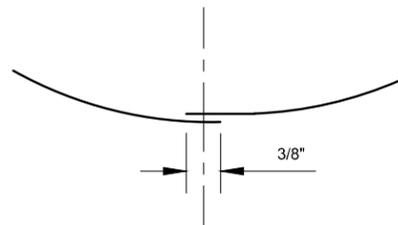


REVISION			
NO	DATE	BY	DESCRIPTION
1	03/2012	GPI	REPLICATED IN CADD
0	10/2006	NJ	CREATED

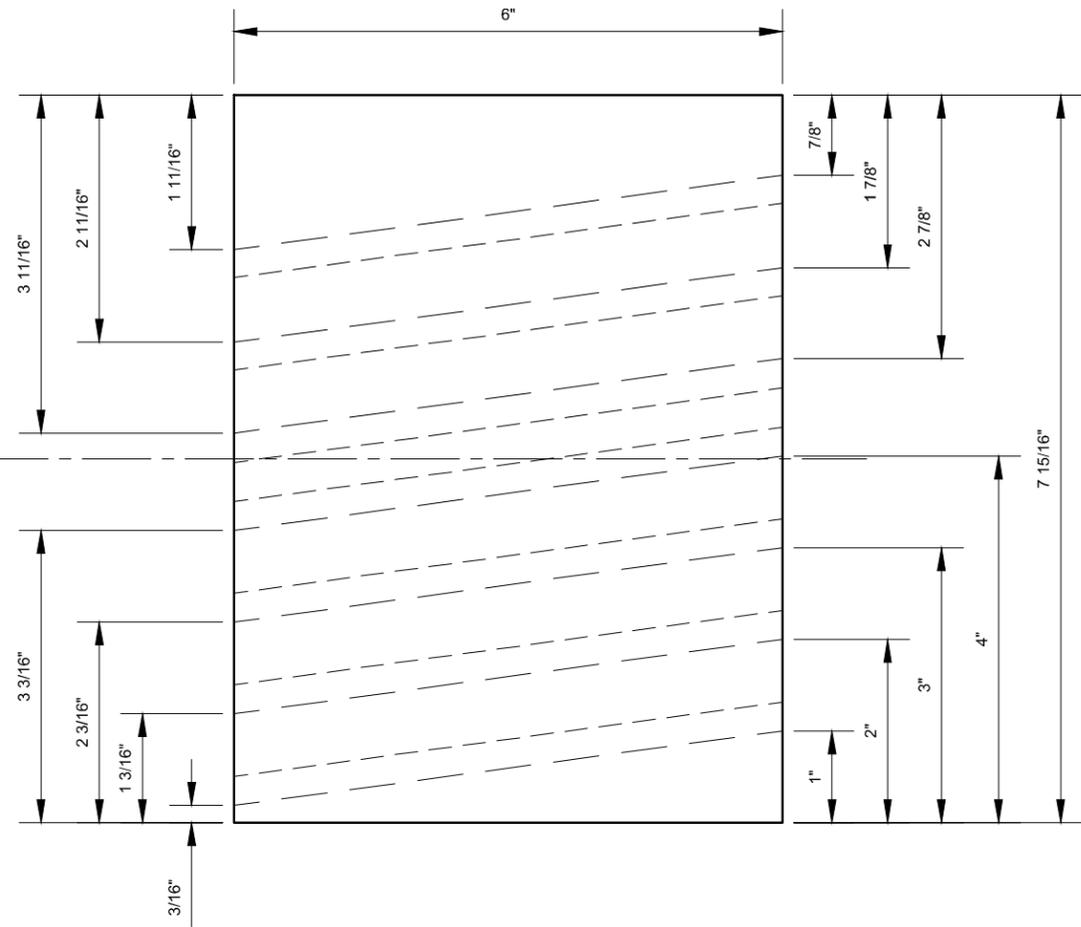
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
LOUVERS - 7 DEGREES		
SCALE: 6" = 1'-0"	OLD DRAWING NO. LB-14334S	DRAWING NO. SE-023_2



DETAIL "A"



DETAIL "A"
NOT TO SCALE



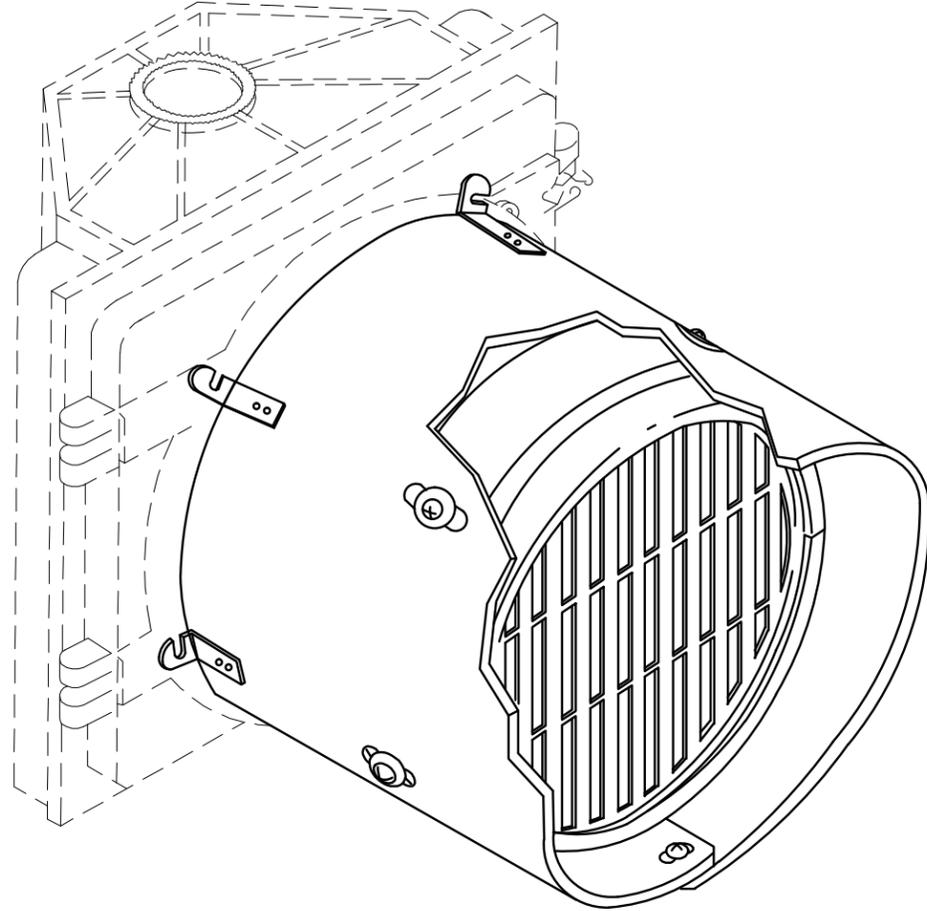
NOTES:

1. ALL SURFACES OF PARTS SHOULD BE SPRAYED WITH BLACK FLAT PAINT.
2. TOLERANCES SHOULD BE $\pm 1/16$ " UNLESS OTHERWISE SPECIFIED.
3. MATERIAL: ROLLED PLATE. THICKNESS = 0.02".

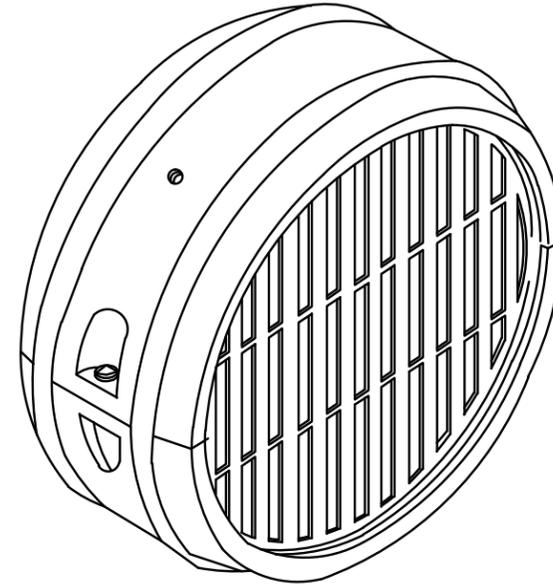


REVISION			
NO	DATE	BY	DESCRIPTION
1	03/2012	GPI	REPLICATED IN CADD
0	10/2006	NJ	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
LOUVERS - 14 DEGREES		
SCALE: 6" = 1'-0"	OLD DRAWING NO. LB-14335S	DRAWING NO. SE-023_3



ASSEMBLY DETAIL



LOUVER DETAIL

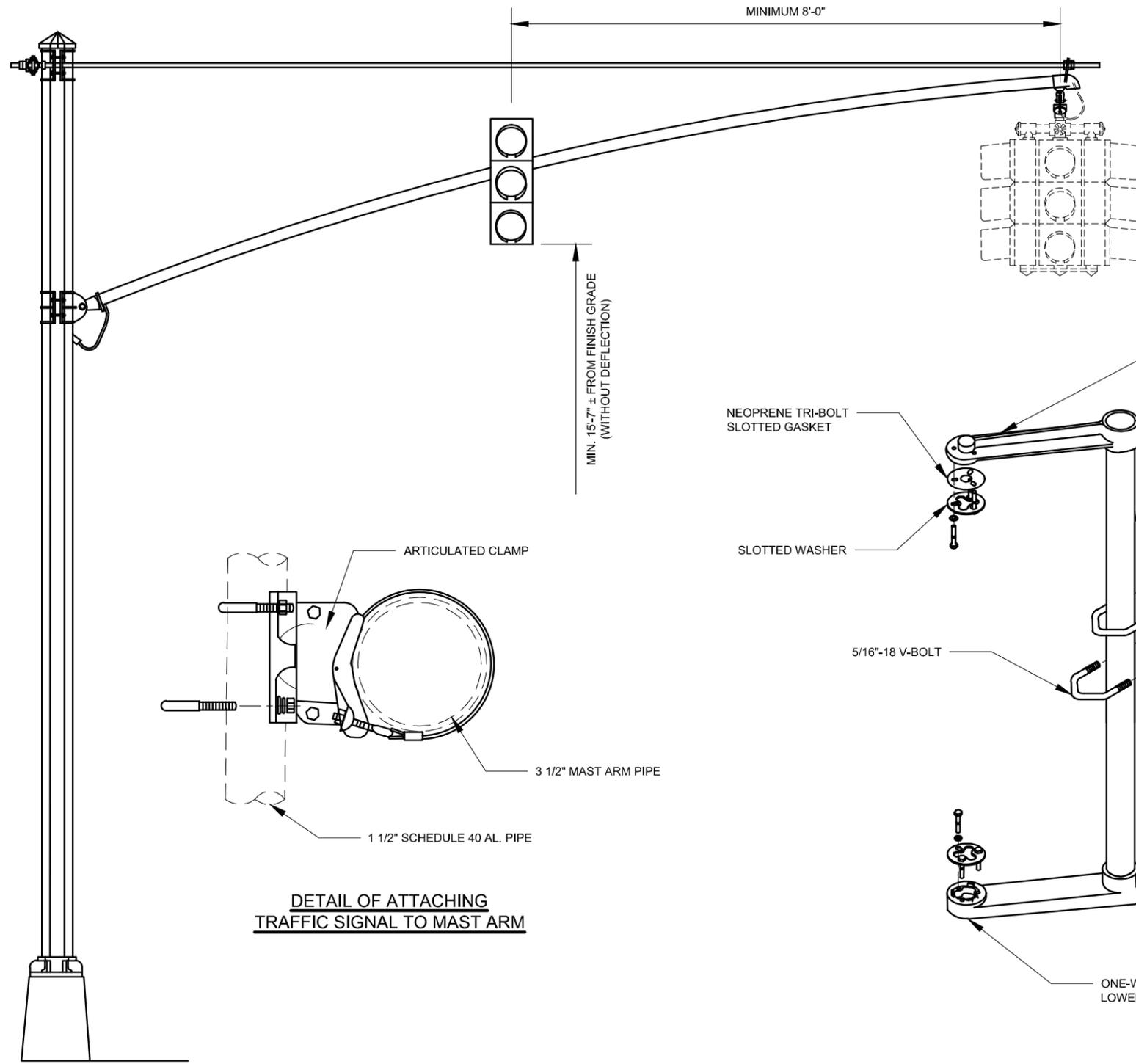
NOTE:

- VIEW CUT-OFF OPTIONS FOR GEOMETRICALLY PROGRAMMABLE LOUVERS COULD BE BUT NOT LIMITED TO 7°, 8°, 9°, 11°, 13°, 15°, 23.5°, 43°.

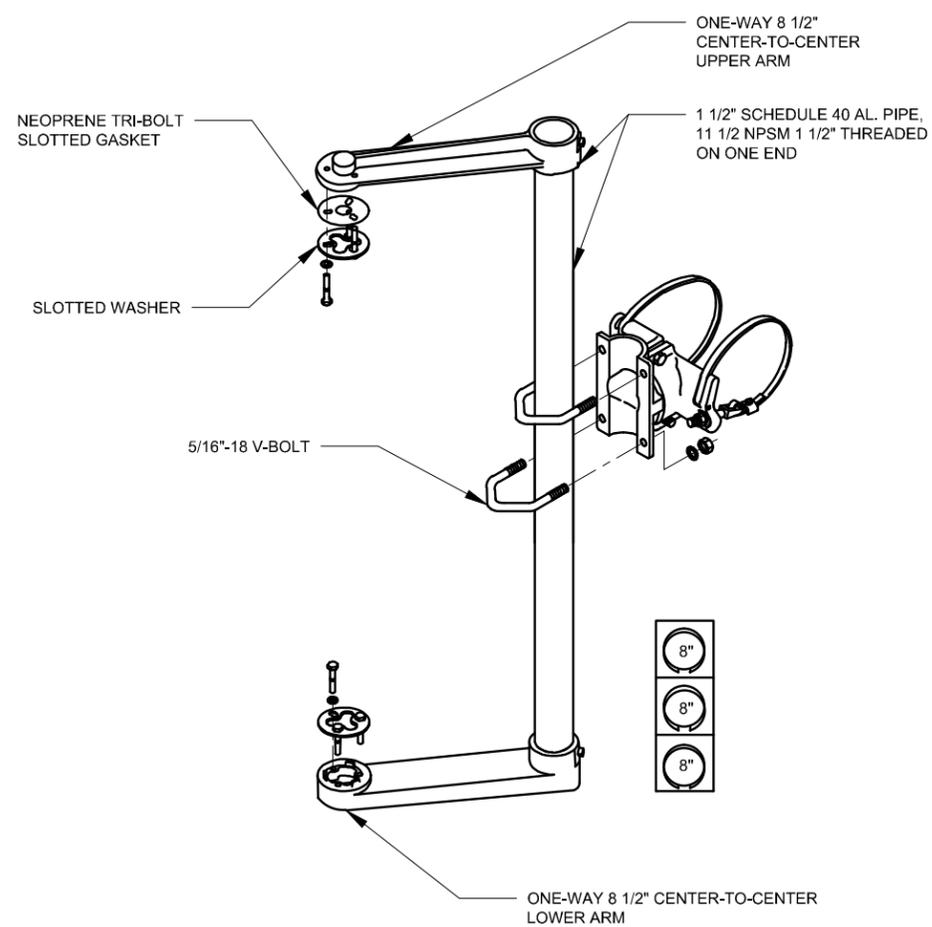


REVISION				DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
				LOUVERS - GEOMETRICALLY PROGRAMMABLE		
				SCALE:	OLD DRAWING NO.	DRAWING NO.
				N.T.S.		SE-023_4
0	03/2012	GPI	CREATED			
NO	DATE	BY	DESCRIPTION			

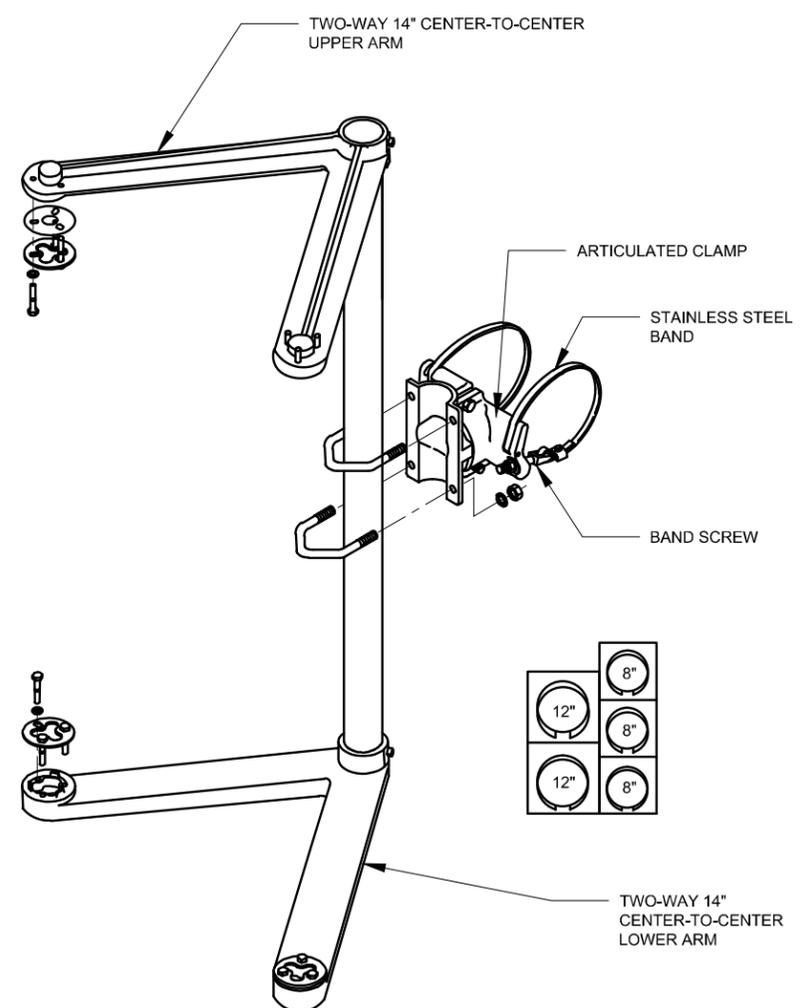
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



ELEVATION



ONE-WAY BRACKET ASSEMBLY



TWO-WAY BRACKET ASSEMBLY

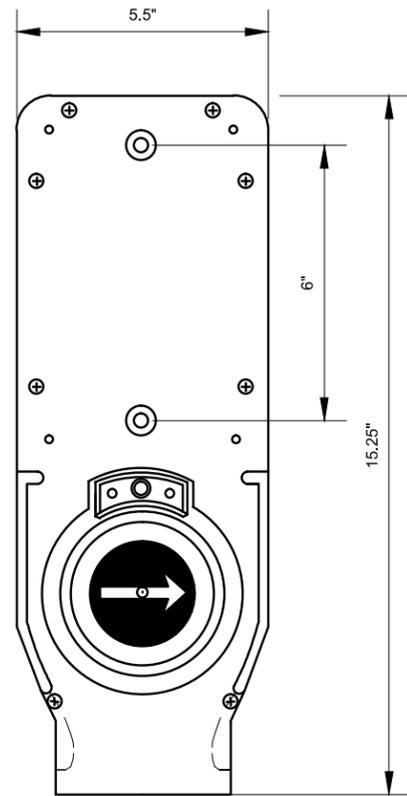
NOTES:

1. TRAFFIC SIGNAL SHALL BE CENTERED OVER TRAFFIC LANE, OR AS PER ENGINEER IN CHARGE.
2. TO AVOID CORROSION, MAST ARM SHALL NOT BE DRILLED. ALL ELECTRICAL CABLES RUN ON EXTERIOR OF MAST ARM HOUSED IN 3/4" PVC CONDUIT. PVC CONDUIT SHALL BE CONTINUOUS, FROM POLE TO SIGNAL HOUSING LEAVING ENOUGH EXPOSED CABLE FOR CONNECTIONS.

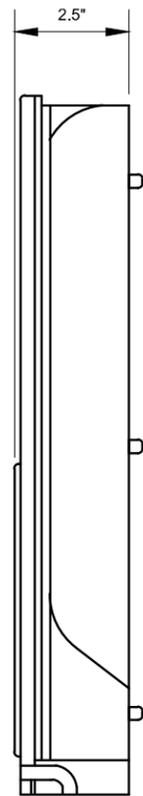


REVISION			
NO	DATE	BY	DESCRIPTION
0	03/2012	GPI	CREATED

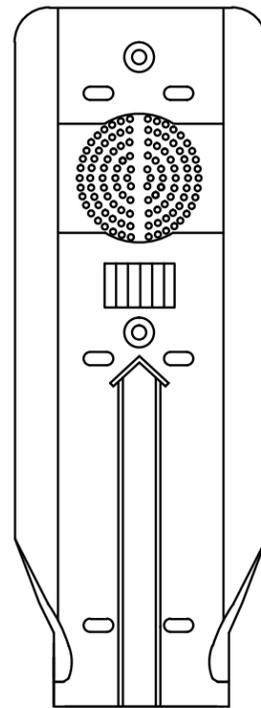
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
RIGID MAST ARM TRAFFIC SIGNAL MOUNTING ASSEMBLY		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.		SE-024



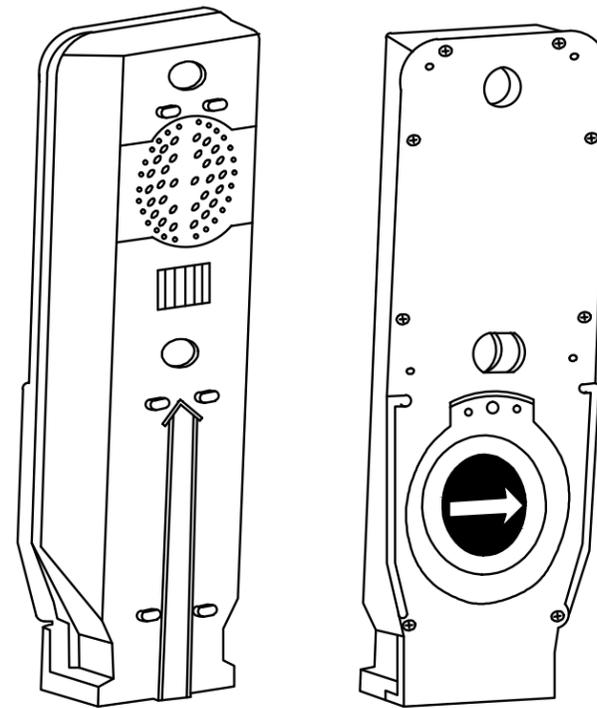
FRONT VIEW
3"=1'-0"



SIDE VIEW
3"=1'-0"

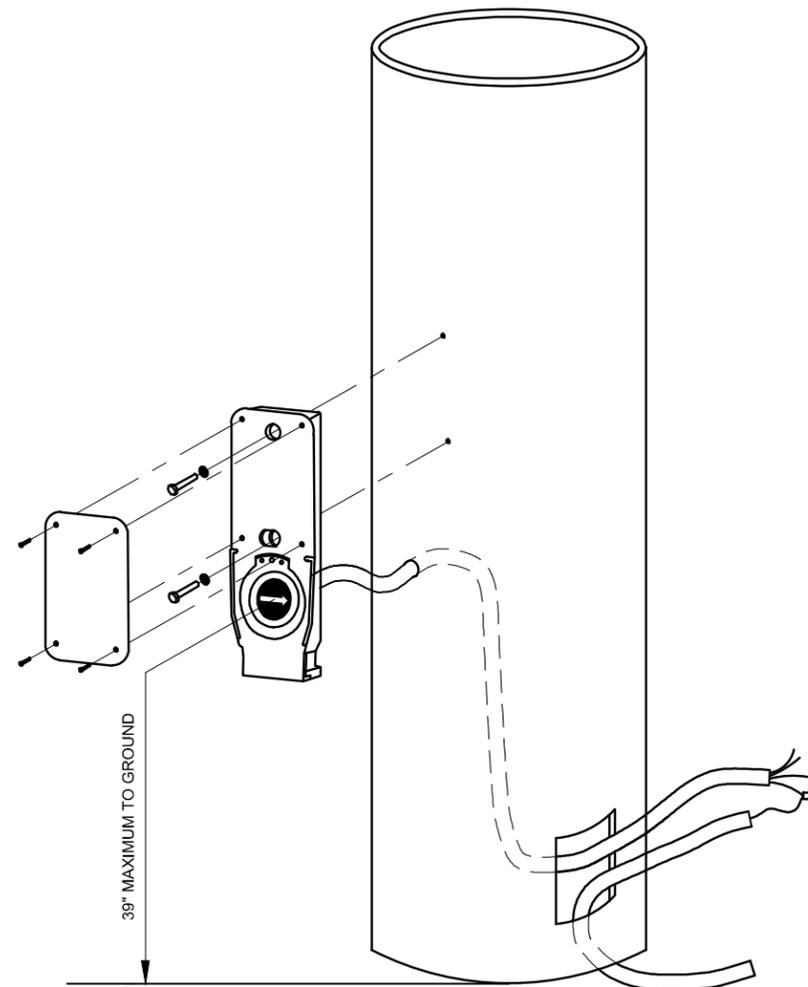


BACK VIEW
3"=1'-0"

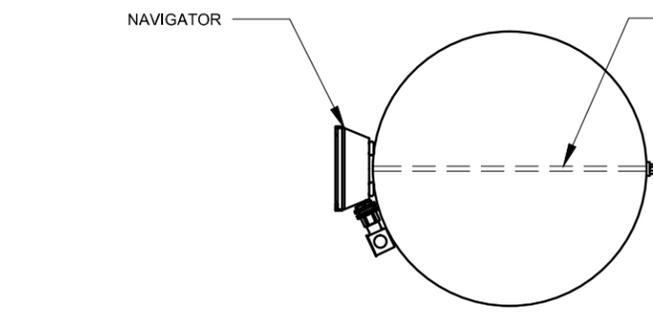


ISOMETRIC VIEW
N.T.S.

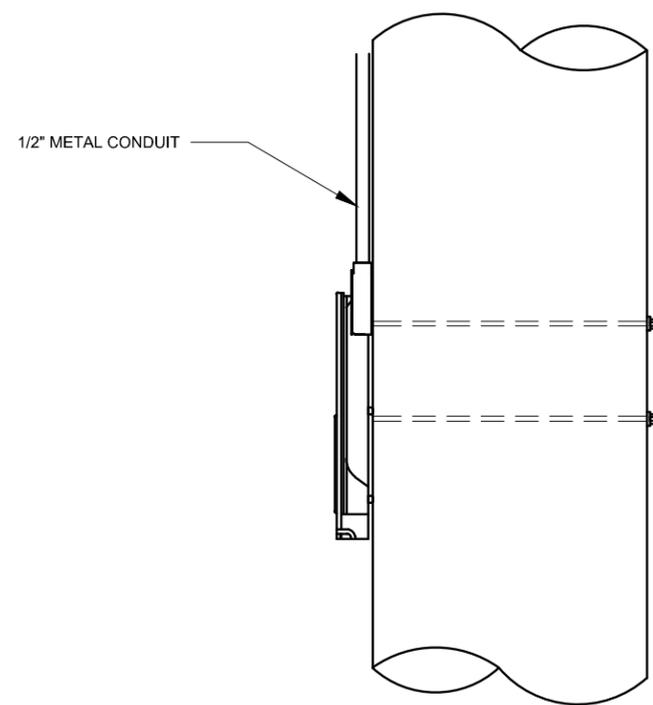
REVISION				DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
				ACCESSIBLE PEDESTRIAN SIGNAL (APS) UNIT		
				SCALE:	OLD DRAWING NO.	DRAWING NO.
				AS NOTED		SE-025_1
0	03/2012	GPI	CREATED			
NO	DATE	BY	DESCRIPTION			



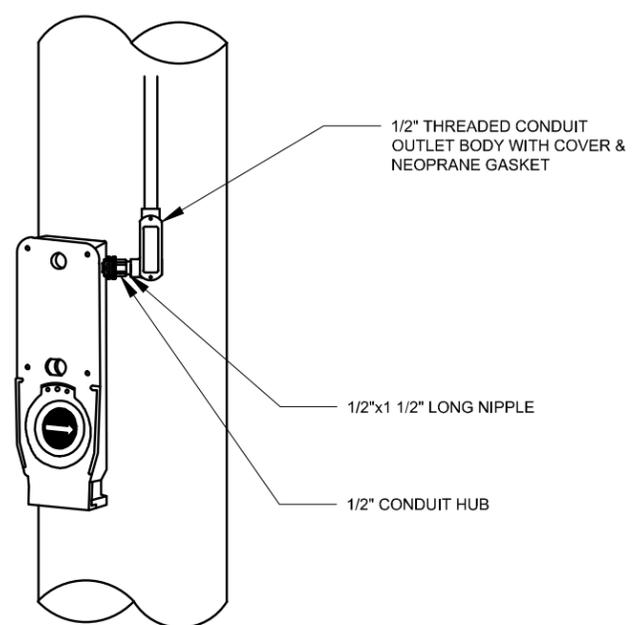
MOUNTING ON METAL POLE



TOP VIEW



SIDE VIEW

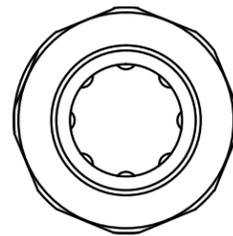
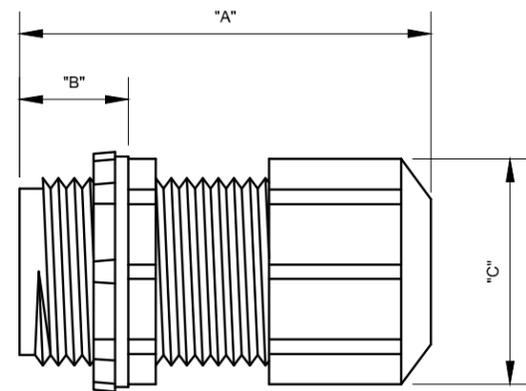


MOUNTING ON WOOD POLE



REVISION			
NO	DATE	BY	DESCRIPTION
0	03/2012	GPI	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
ACCESSIBLE PEDESTRIAN SIGNAL (APS) MOUNTING INFORMATION		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.		SE-025_2



CORD END CONNECTOR

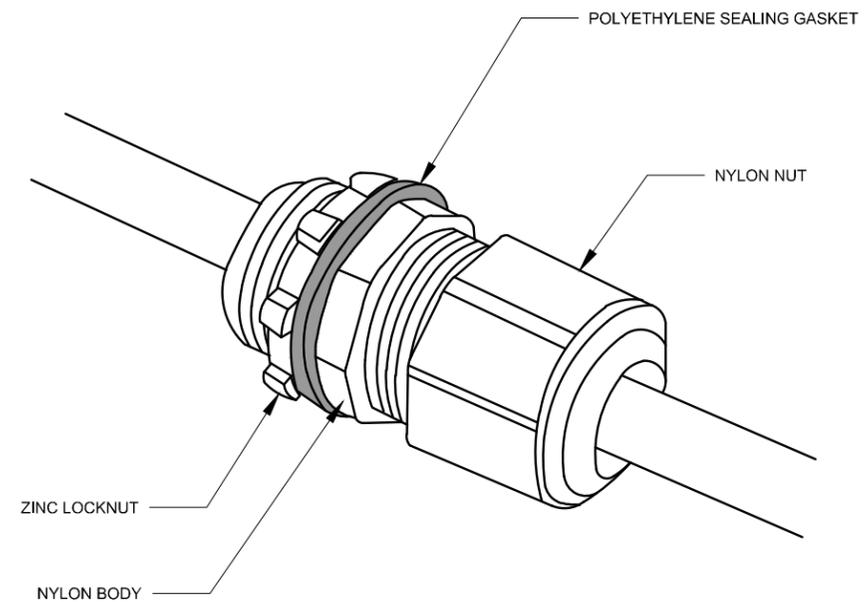
SCALE: 1'-0" = 1'-0"

TRADE SIZE	"A"	"B"	"C"	CABLE RANGE
1/2	1.792	.595	.978	.100"-.300"
	1.792	.595	.978	.200"-.472"
	2.250	.595	1.230	.385"-.750"
3/4	1.963	.595	.978	.100"-.300"
	1.963	.595	.978	.200"-.472"
	2.250	.595	1.230	.385"-.750"
1 1/4	2.160	.630	1.810	.510"-.790"
	2.160	.630	1.810	.710"-.980"
1 1/2*	0.600	.710	2.090	UNIVERSAL**

(*) HUMMEL HSK-K-MULTI #1.597.6499.71 (COMES WITH SOLID GROMMET) OR EQUAL
 (**) HUMMEL SOLID GROMMET #1.089.3699.19 OR EQUAL

NOTE:

1. TO ACCEPT CABLE, SOLID GROMMET SHALL BE DRILLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

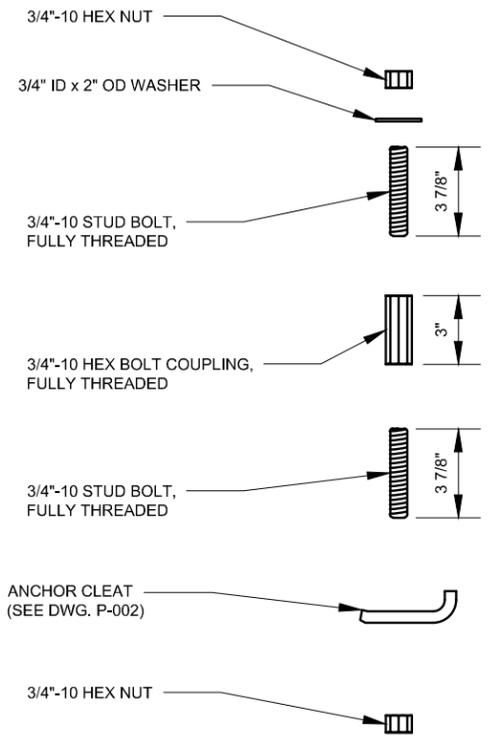
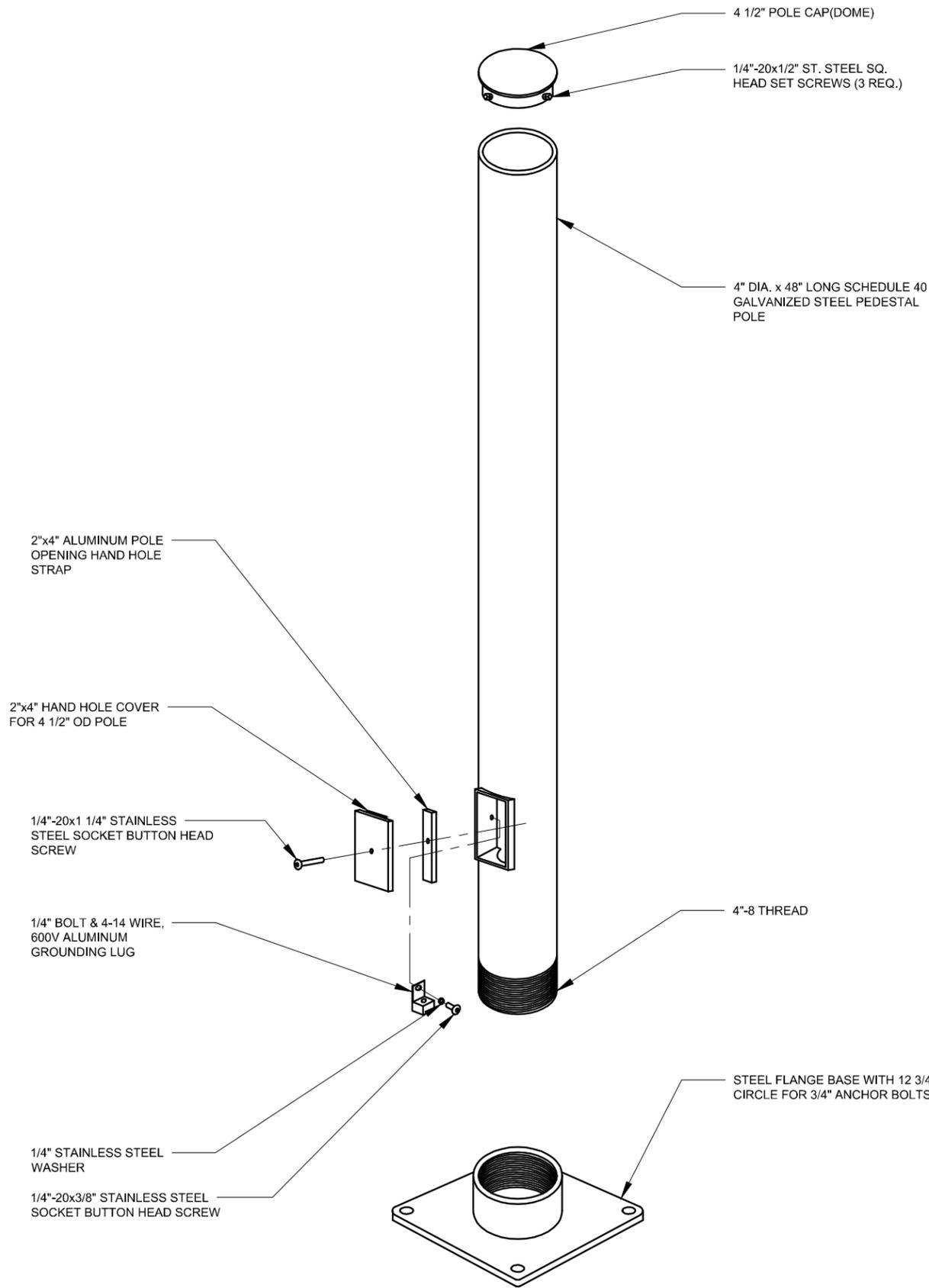


ISOMETRIC VIEW

SCALE: N.T.S.



REVISION				DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101	
				CORD END CONNECTOR	
				SCALE:	OLD DRAWING NO.
				AS NOTED	DRAWING NO.
0	03/2013	GPI	CREATED		SE-026
NO	DATE	BY	DESCRIPTION		



ANCHOR BOLT ASSEMBLY (SET OF 4)

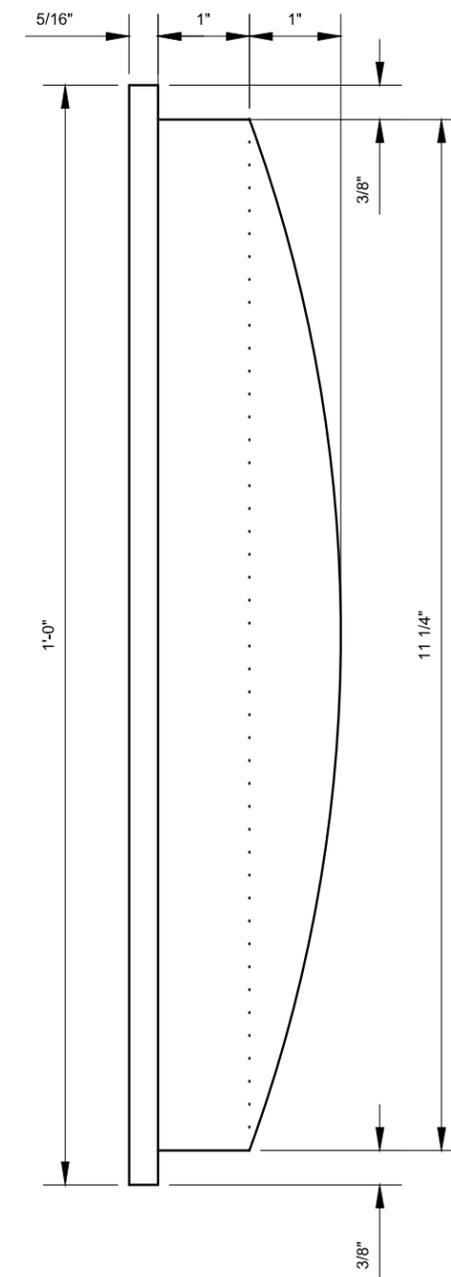
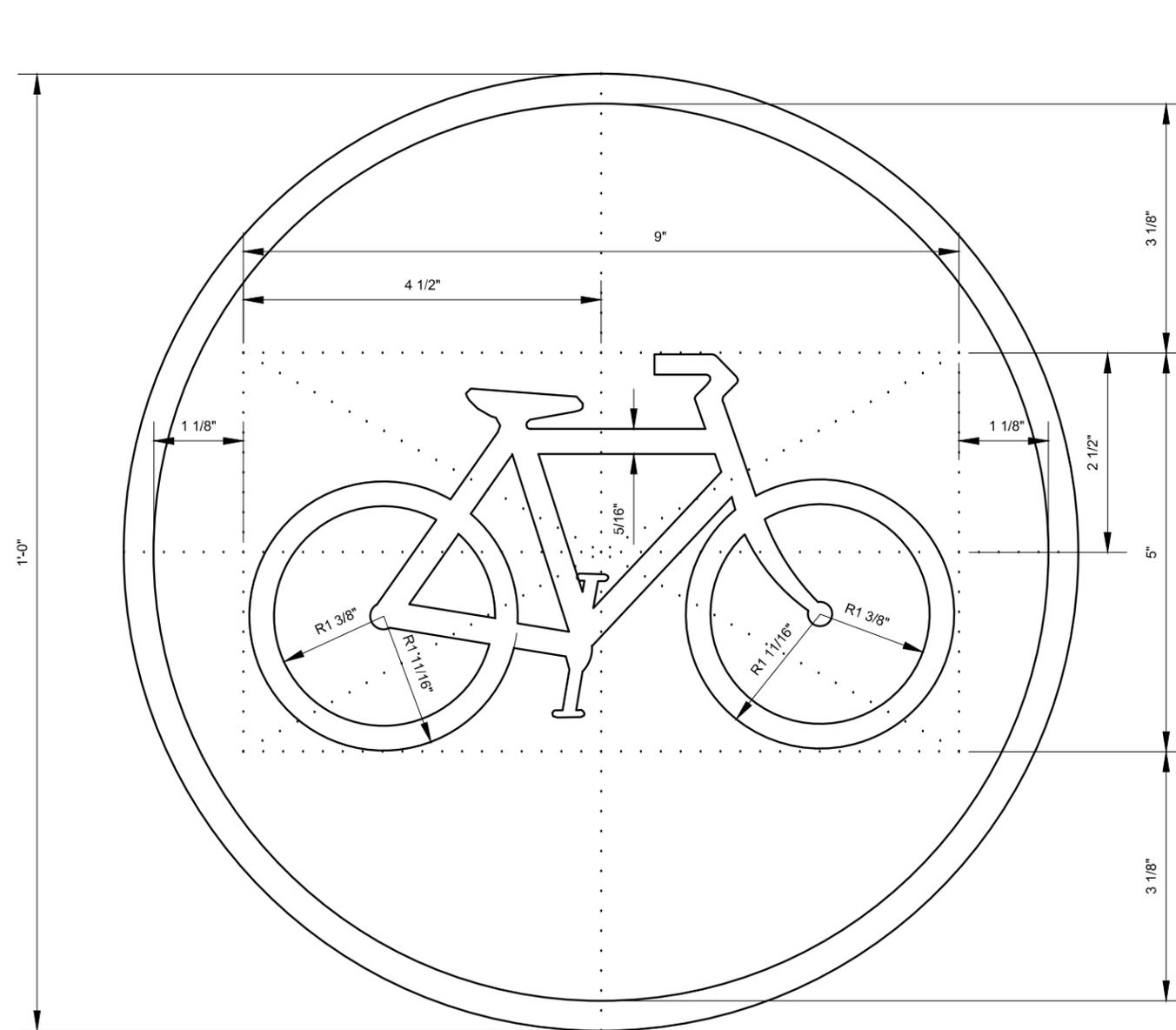
NOTES:

- ANCHOR BOLT ASSEMBLY SHALL BE MADE OF GALVANIZED STEEL.



REVISION			
NO	DATE	BY	DESCRIPTION
0	04/2012	GPI	REPLICATED IN CADD

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C.,N.Y.11101		
ACCESSIBLE PEDESTRIAN SIGNAL (APS) POLE		
SCALE:	OLD DRAWING NO.	DRAWING NO.
1 1/2"=1'-0"		SE-027



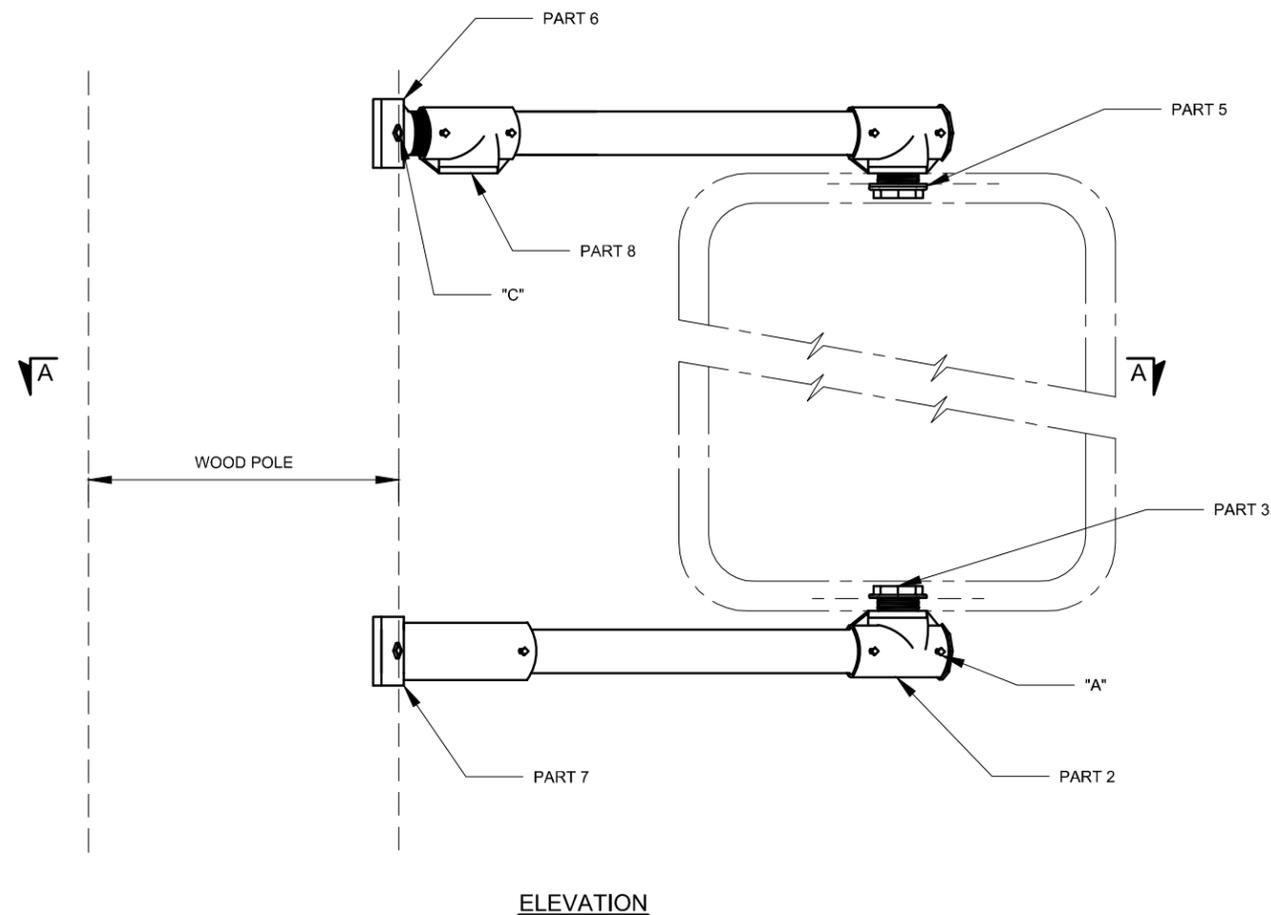
NOTES:

1. ALL LEDS MUST BE INCANDESCENT LOOK TYPE AND BE APPROVED BY NYCDOT, AND FOLLOW NYCDOT SPECIFICATION 7B LED SIGNAL MODULE.
2. THE BIKE LANE SYMBOL SHALL BE AS ILLUSTRATED ON THIS DRAWING, OR APPROVED EQUAL.
3. THE BIKE SYMBOL SHALL BE A MASK TYPE OF CONSTRUCTION USING A HIGH QUALITY 3-MIL FLEXIBLE VINYL RATED FOR OUTDOOR USE AND UNAFFECTED BY SUN LIGHT (UV RAYS). THE MATERIAL SHALL HAVE A PERMANENT ACRYLIC PRESSURE SENSITIVE ADHESIVE. THE MATERIAL SHALL BE RESISTANT TO WATER, HUMIDITY, AND MOST PETROLEUM BASED SOLVENTS, WITH A SERVICE RANGE TEMPERATURE OF -40°F TO +200°F. THE PRODUCT LIFE OF THE VINYL SHALL BE EQUAL TO THE LIFE OF THE LED SIGNAL MODULE AND BE WARRANTED FOR NOT LESS THAN 7 YEARS.

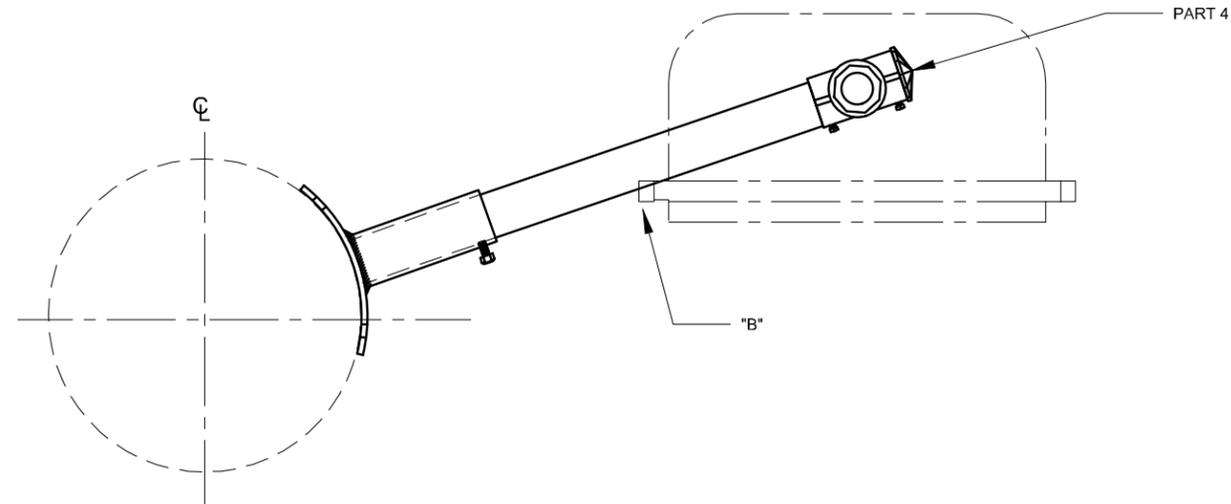


REVISION			
NO	DATE	BY	DESCRIPTION
1	03/2012	GPI	REPLICATED IN CADD
0	09/2007	NJ	LC539S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
BICYCLE SYMBOL FOR 12" TRAFFIC SIGNAL COVER		
SCALE:	OLD DRAWING NO.	DRAWING NO.
6" = 1'-0"	LC-539S	SE-028



ELEVATION



SECTION "A-A"

PARTS LIST			
PART NO.	DESCRIPTION	DRAWING NO.	QTY.
1	1 1/2"x17" LONG SCHEDULE 80 AL. PIPE, 11 1/2 NPSM 3/4" THREADED ON BOTH ENDS		2
2	1 1/2" DIE CAST AL. SERRATED TEE	SE-007	2
3	1 1/2"x1 3/8" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2)	SE-009	2
4	1 1/2"x5/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-4)	SE-011	2
5	NEOPRENE SEAL WASHER 2 3/4" OD x 1 7/8" ID x 1/8" TH (FOR TOP BRACKET ONLY) (N.I.C.*)		1
6	TOP BRACKET CONNECTION	SE-019_3	1
7	BOTTOM BRACKET CONNECTION	SE-019_3	1
8	DIE CAST AL. PLAIN TEE	SE-019_3	1
"A"	1/4"-20x1/2" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		6
"B"	3/8"-16x1" LONG ST. STEEL SQ. HEAD CUP POINT SET SCREW		1
"C"	1/2"x4" GAL. STEEL LAG SCREW (N.I.C.*)		4

* - NOT IN CONTRACT (N.I.C.)

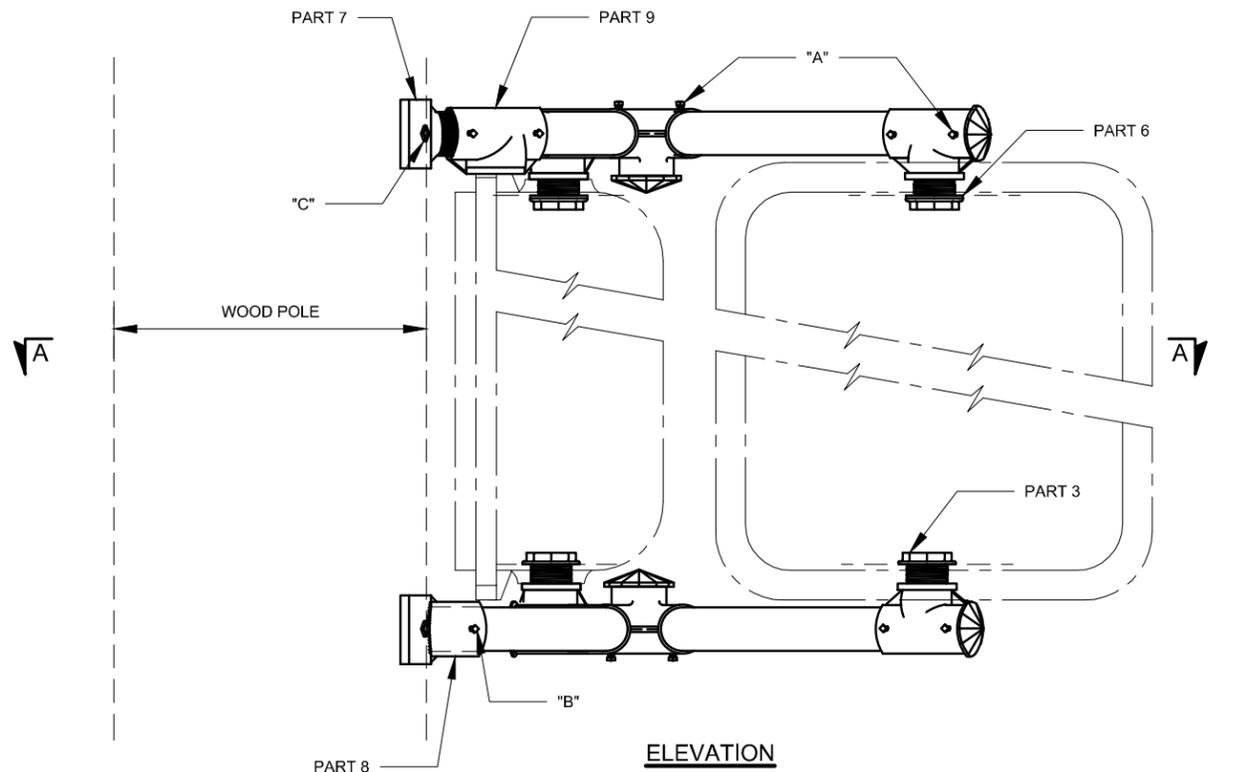
NOTES:

1. SIGNAL HOUSING MAY BE ROTATED AROUND CENTER OF CONNECTION.
2. A THIN COAT OF "MOLYKOTE ANTI SEIZE THREAD COMPOUND" BY DOW CORNING, OR APPROVED EQUAL **SHALL** BE USED ON ALL THREADING IN ALUMINUM THREADED CONNECTIONS.

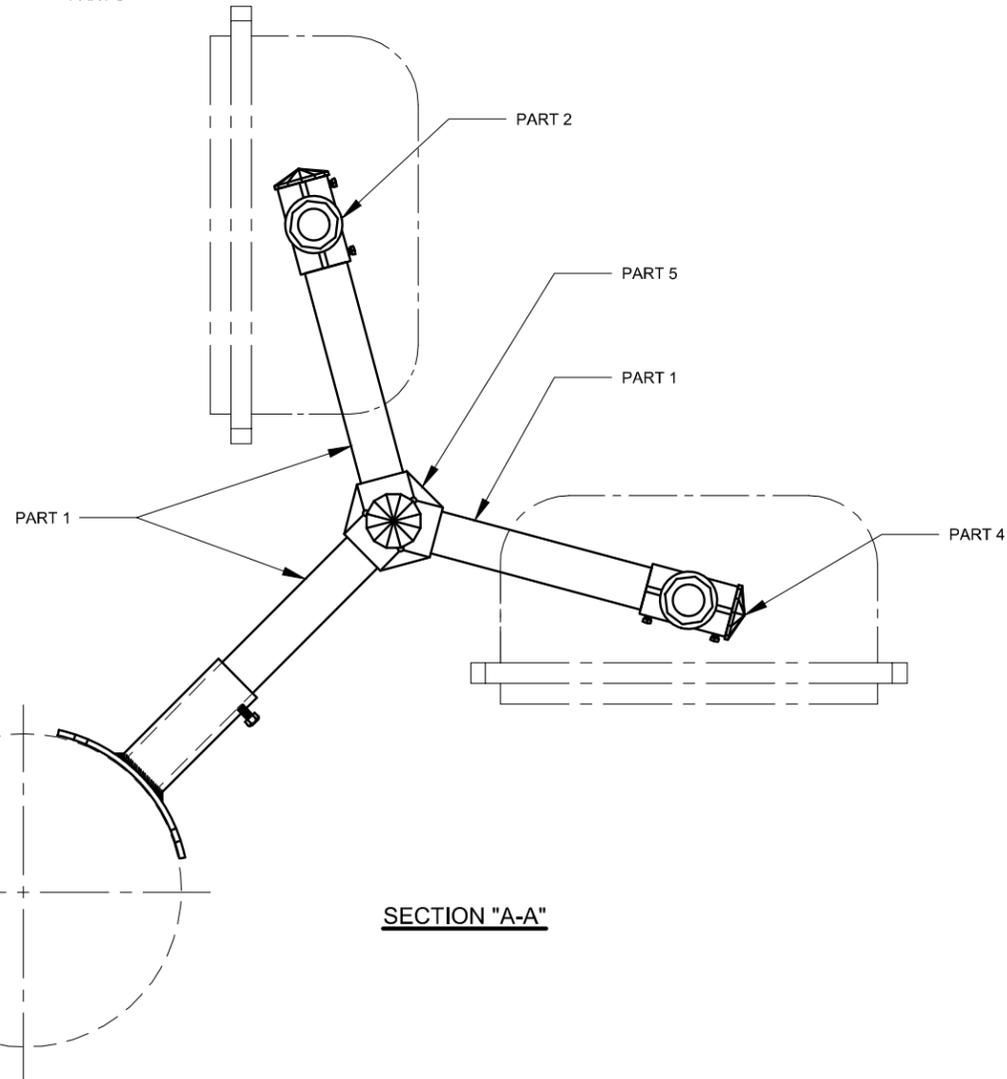


REVISION			
NO	DATE	BY	DESCRIPTION
0	10/2012	GPI	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
BRACKET MOUNTING ASSEMBLY FOR PEDESTRIAN SIGNALS ON WOOD POLES "WB-P"		
SCALE:	OLD DRAWING NO.	DRAWING NO.
1 1/2" = 1'-0"		SE-029_1



ELEVATION



SECTION "A-A"

PARTS LIST

PART NO.	DESCRIPTION	DRAWING NO.	QTY.
1	1 1/2"x11" LONG SCHEDULE 80 AL. PIPE, 11 1/2 NPSM 3/4" THREADED ON BOTH ENDS		6
2	1 1/2" DIE CAST AL. SERRATED TEE	SE-007	4
3	1 1/2"x1 3/8" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2)	SE-009	4
4	1 1/2"x5/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-4)	SE-011	6
5	120 DEGREE "Y" FITTING	SE-020	2
6	NEOPRENE SEAL WASHER 2 3/4" OD x 1 7/8" ID x 1/8" TH (FOR TOP BRACKET ONLY) (N.I.C.*)		2
7	TOP BRACKET CONNECTION	SE-019_3	1
8	BOTTOM BRACKET CONNECTION	SE-019_3	1
9	DIE CAST AL. PLAIN TEE	SE-019_3	1
"A"	1/4"-20x1/2" LONG ST. STEEL SQ. HEAD HOLLOW NOSE SET SCREW		14
"B"	3/8"-16x1" LONG ST. STEEL SQ. HEAD CUP POINT SET SCREW		1
"C"	1/2"x4" GAL. STEEL LAG SCREW (N.I.C.*)		4

* - NOT IN CONTRACT (N.I.C)

NOTES:

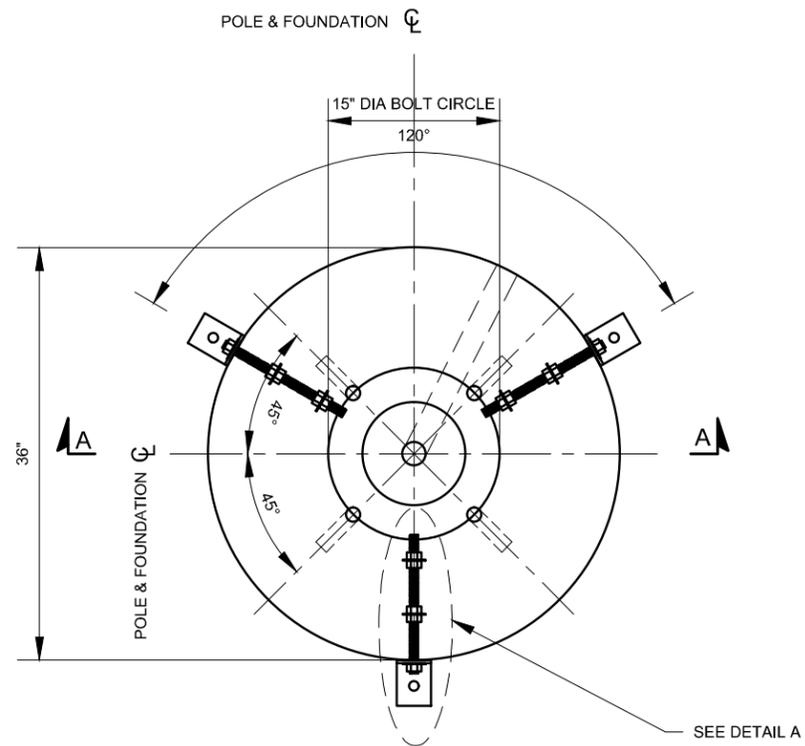
1. SIGNAL HOUSING MAY BE ROTATED AROUND CENTER OF CONNECTION.
2. A THIN COAT OF "MOLYKOTE ANTI SEIZE THREAD COMPOUND" BY DOW CORNING, OR APPROVED EQUAL **SHALL** BE USED ON ALL THREADING IN ALUMINUM THREADED CONNECTIONS.



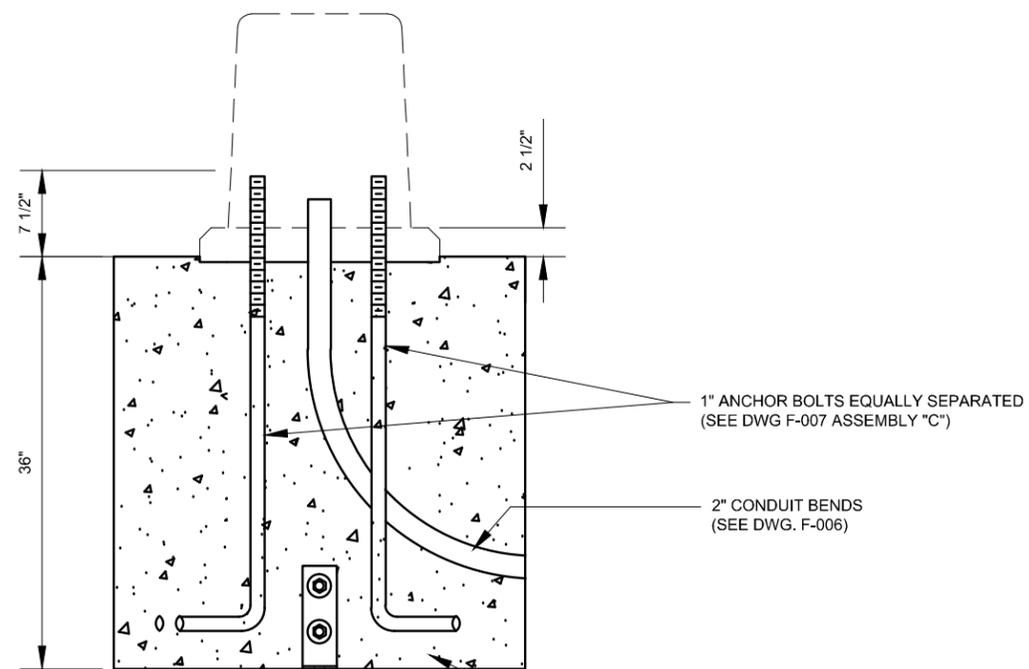
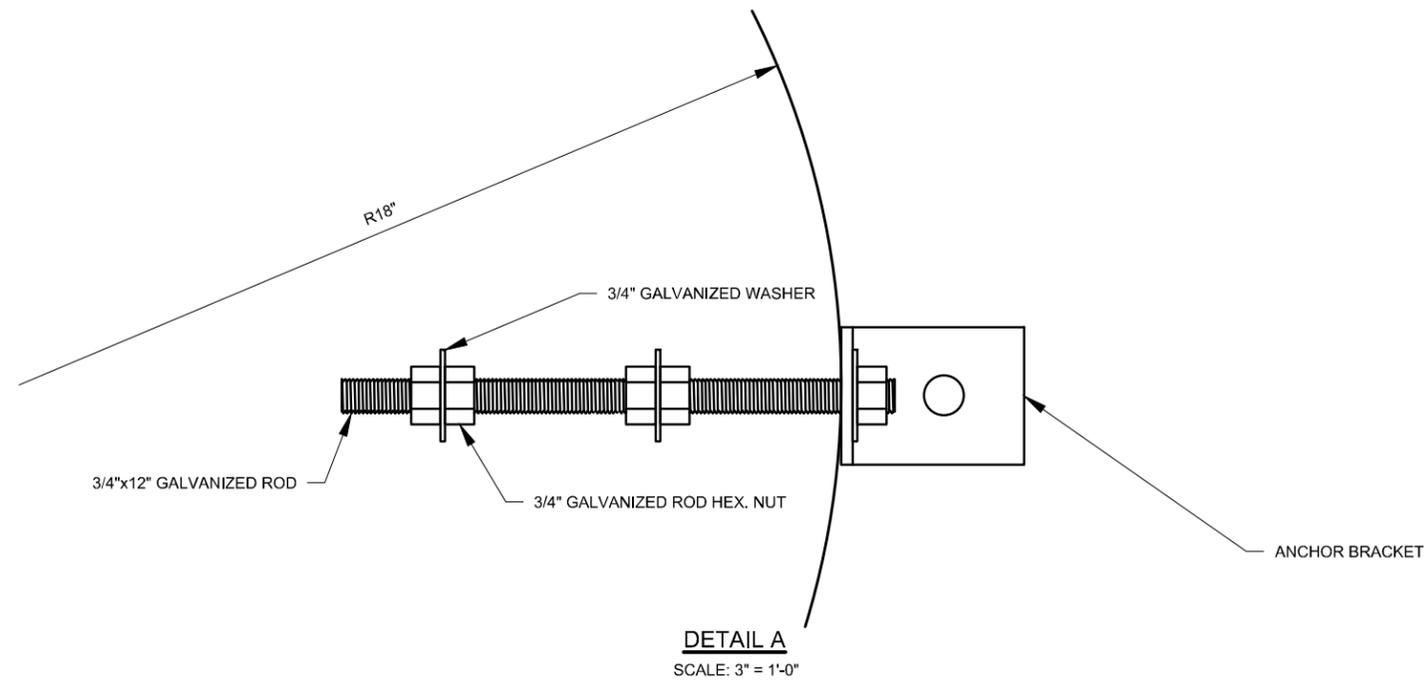
REVISION			
NO	DATE	BY	DESCRIPTION
0	10/2012	GPI	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
BRACKET MOUNTING ASSEMBLY FOR PEDESTRIAN SIGNALS ON WOOD POLES "WB-2P"		
SCALE: 1 1/2" = 1'-0"	OLD DRAWING NO.	DRAWING NO. SE-029_2

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013

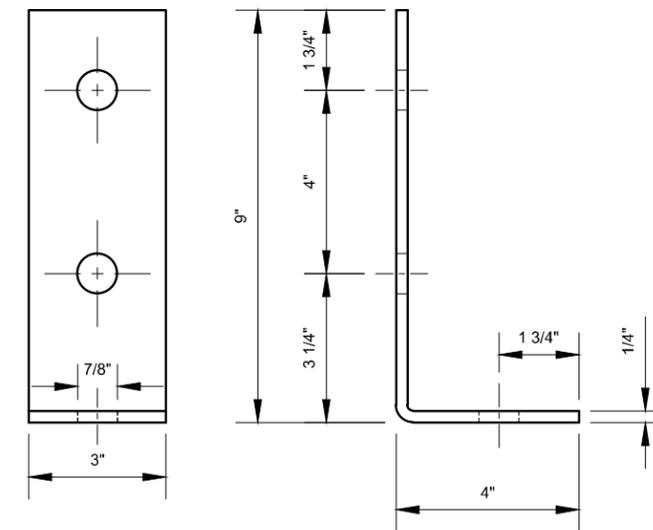


PLAN VIEW



SECTION "A-A"
SCALE: 3/4" = 1'-0"

3000 PSI TEST CONCRETE
VS. CLASS 1 CONCRETE (1:2:4)



ANCHOR BRACKET DETAIL
SCALE: 3" = 1'-0"

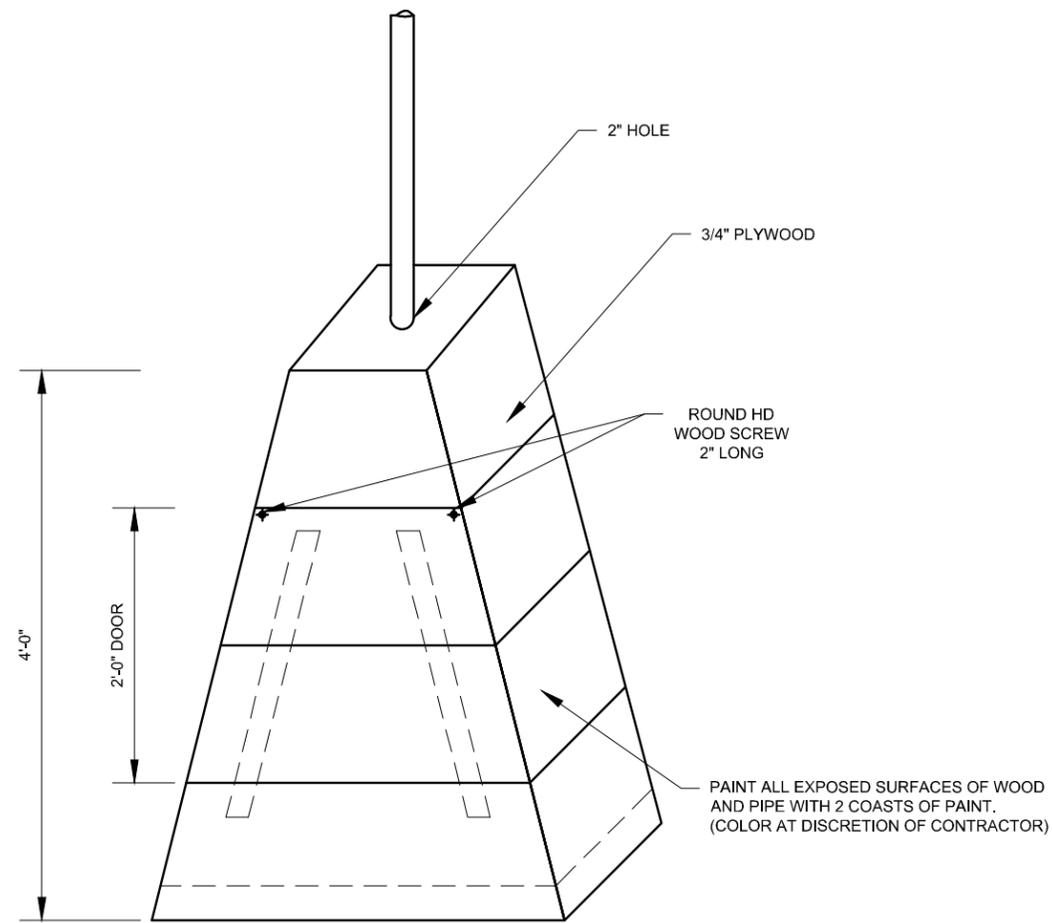
NOTE:

1. TO SECURE TEMPORARY CONCRETE PYLON TO CONCRETE SURFACE USE 3/4" CONCRETE ANCHOR BOLTS.

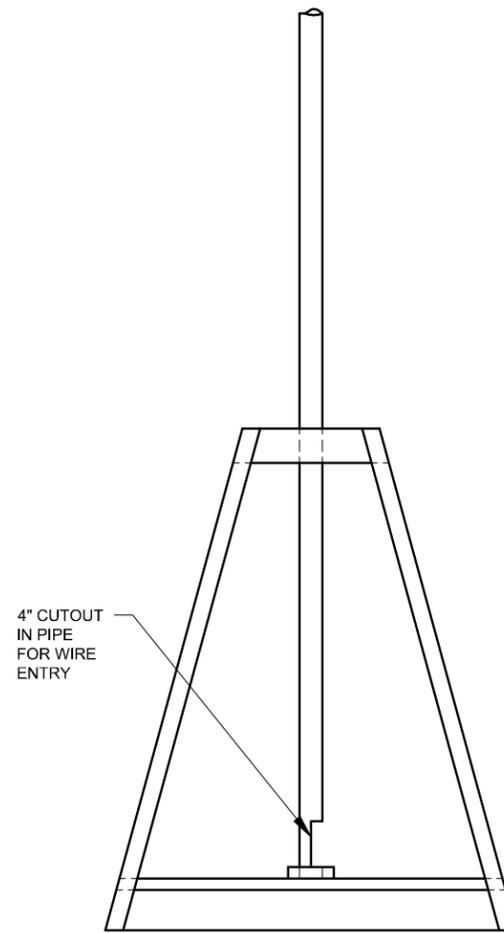


REVISION			
NO	DATE	BY	DESCRIPTION
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0	06/2006	JH	CREATED

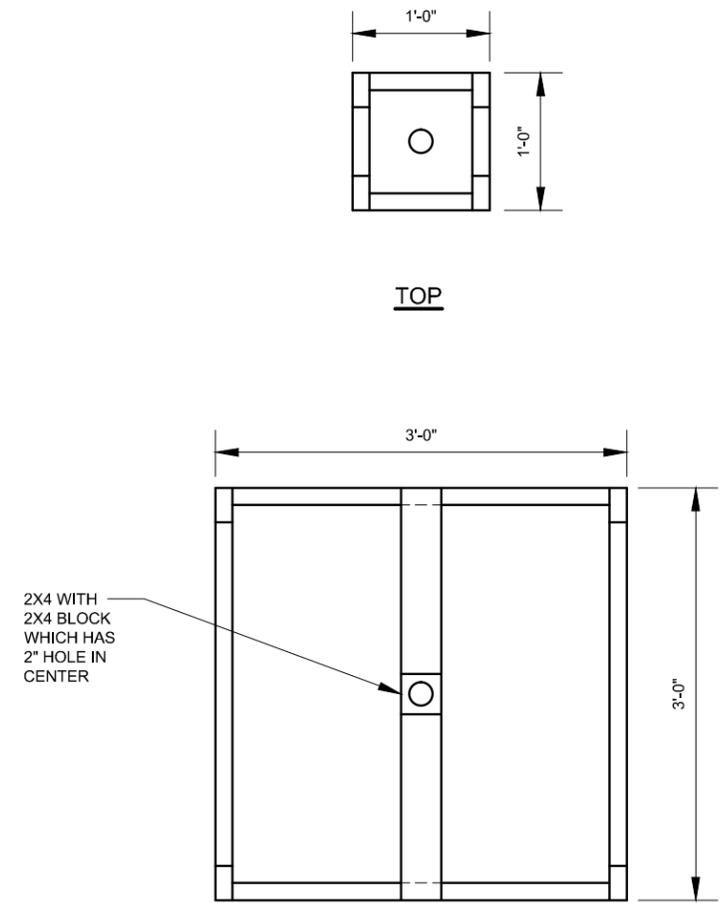
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
TEMPORARY TRAFFIC SIGNAL CONCRETE PYLON		
SCALE: AS NOTED	OLD DRAWING NO. LB-14276S	DRAWING NO. MISC-001_1



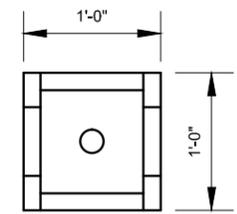
ELEVATION



FRAMING



BOTTOM



TOP

NOTES:

1. PIPE TO BE 1 1/2"x10' GALV. STEEL.
2. BASE TO INCLUDE 2 BAGS OF STONE 200 LBS EA.
3. 2X4'S TO BE USED FOR FRAMING.
4. CONTRACTORS IDENTIFICATION TO BE STENCILED ON OUTSIDE OF BASE WITH 3" MIN LETTERING HEIGHT.



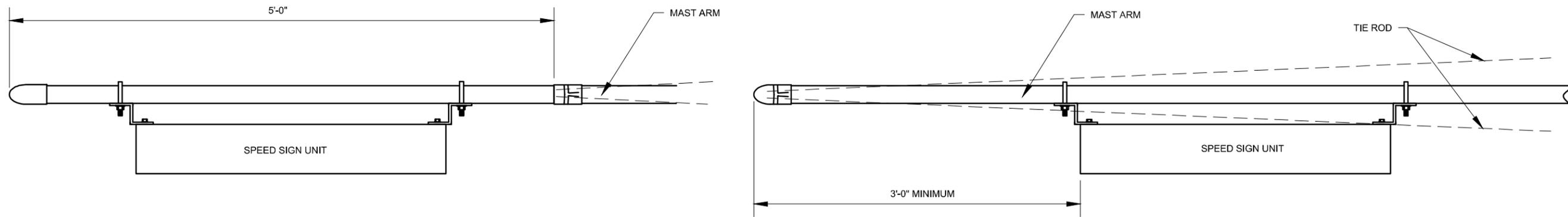
REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2012	GPI	REPLICATED IN CADD
0	08/1977	PR	CREATED

DEPARTMENT OF TRANSPORTATION
BUREAU OF TRAFFIC OPERATIONS
34-02 QUEENS BLVD L.I.C., N.Y. 11101

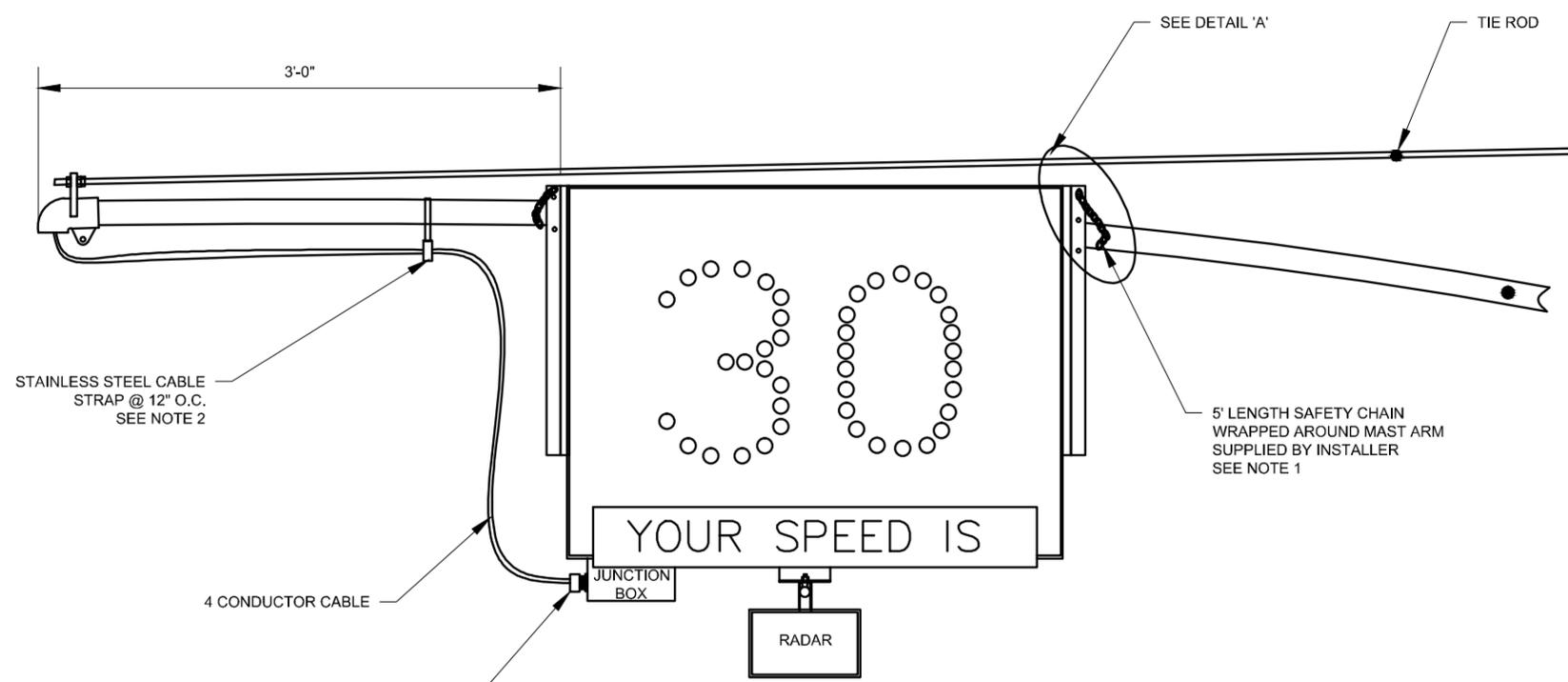
TEMPORARY TRAFFIC SIGNAL WOOD PYLON

SCALE:	OLD DRAWING NO.	DRAWING NO.
3/4" = 1'-0"	LB-1367S	MISC-001_2

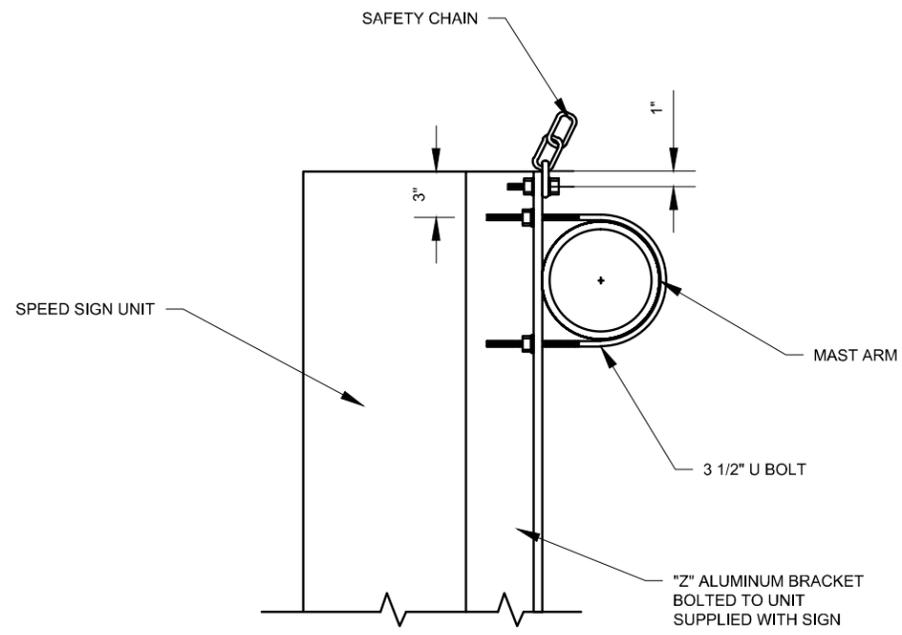
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



TOP VIEW



FRONT VIEW



DETAIL 'A'

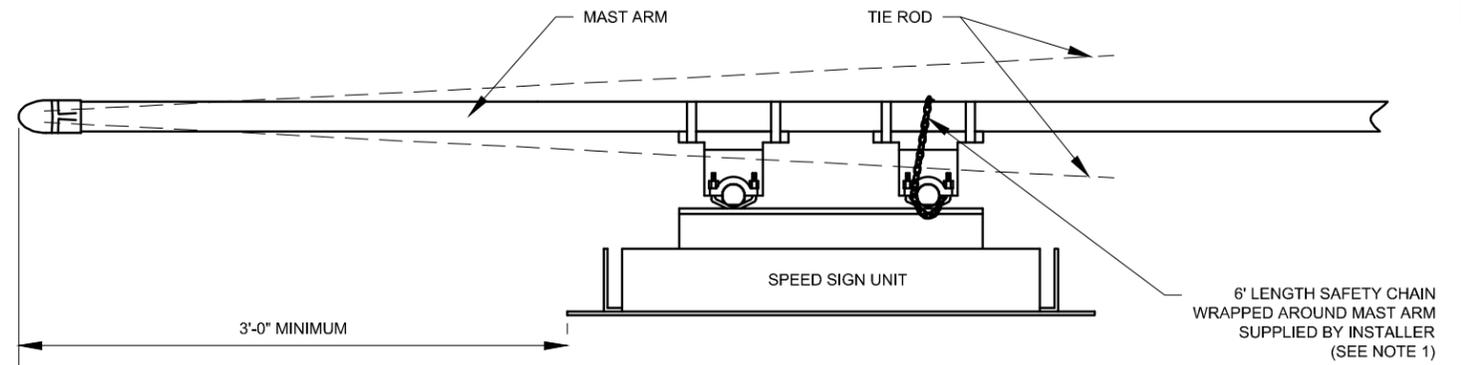
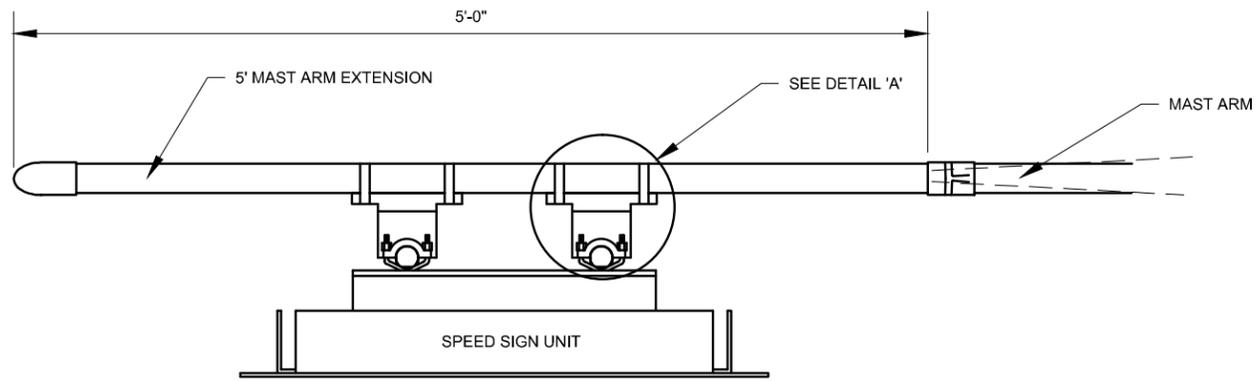
NOTES:

1. LIST OF SUGGESTED MOUNTING HARDWARE SUPPLIED BY INSTALLER:
 5'-5/16" GALVANIZED CHAIN
 2 3/8"x1 1/2" SS BOLTS WITH SS FLAT WASHER
 1 3/8" SS LOCK NUT NYLON INSERT TYPE
 3 1/2" SS U BOLT WITH SS FLAT WASHERS AND NYLON LOCK NUT
2. PART FOR THE STRAP ARE AS FOLLOWS:
 12" STAINLESS STEEL BANDING WITH BUCKEL
 PLUS FOUR SIGN BRACKET WITH 5/16"x1/2" SCREW AND
 BRIDGEPORT 2110-S CONDUIT HANGER WITH INSULATOR
 3 1/2" SS U BOLT WITH SS FLAT WASHERS AND NYLON LOCK NUT
3. STRAPS ON SIGN BRACKET - CAT SB022

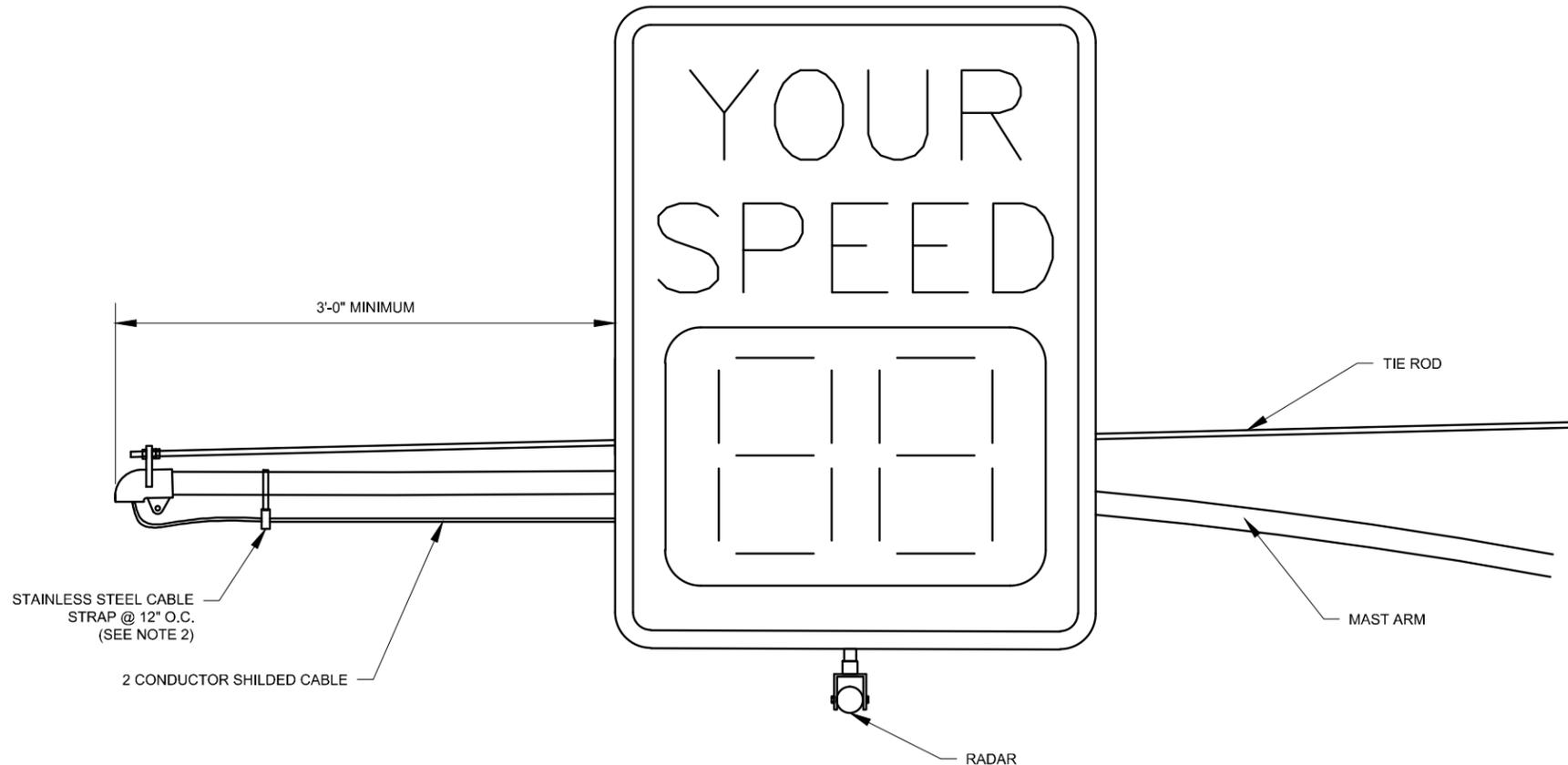


REVISION			
NO	DATE	BY	DESCRIPTION
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0	12/2003	JH	CREATED

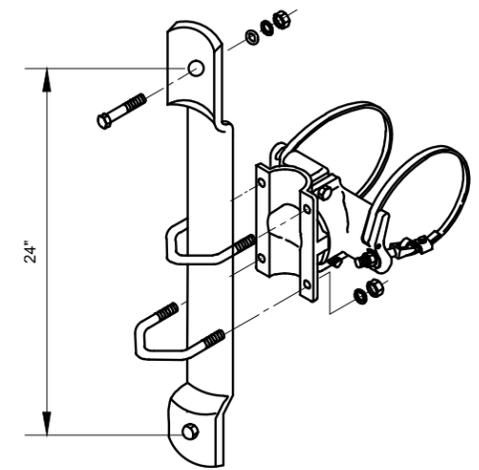
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
SPEED SIGN UNIT ONLY FOR AMERICAN SIGNAL SPEED SIGN		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.	LB-13730S	MISC-002_1



TOP VIEW



FRONT VIEW



DETAIL "A"

NOTES:

1. LIST OF SUGGESTED MOUNTING HARDWARE SUPPLIED BY INSTALLER:
 6'-5/16" GALVANIZED CHAIN
 2 3/8"x1 1/2" SS BOLTS WITH SS FLAT WASHER
 1 3/8" SS LOCK NUT NYLON INSERT TYPE
 3 1/2" SS U BOLT WITH SS FLAT WASHERS AND NYLON LOCK NUT
2. PART FOR THE STRAP ARE AS FOLLOWS:
 12" STAINLESS STEEL BANDING WITH BUCKEL
 PLUS FOUR SIGN BRACKET WITH 5/16"x1/2" SCREW AND
 BRIDGEPORT 2110-S CONDUIT HANGER WITH INSULATO
 3 1/2" SS U BOLT WITH SS FLAT WASHERS AND NYLON LOCK NUT
3. STRAPS ON SIGN BRACKET - CAT SB022
4. JUNCTION BOX SHALL BE MOUNTED ON THE POLE CLOSE TO MAST ARM

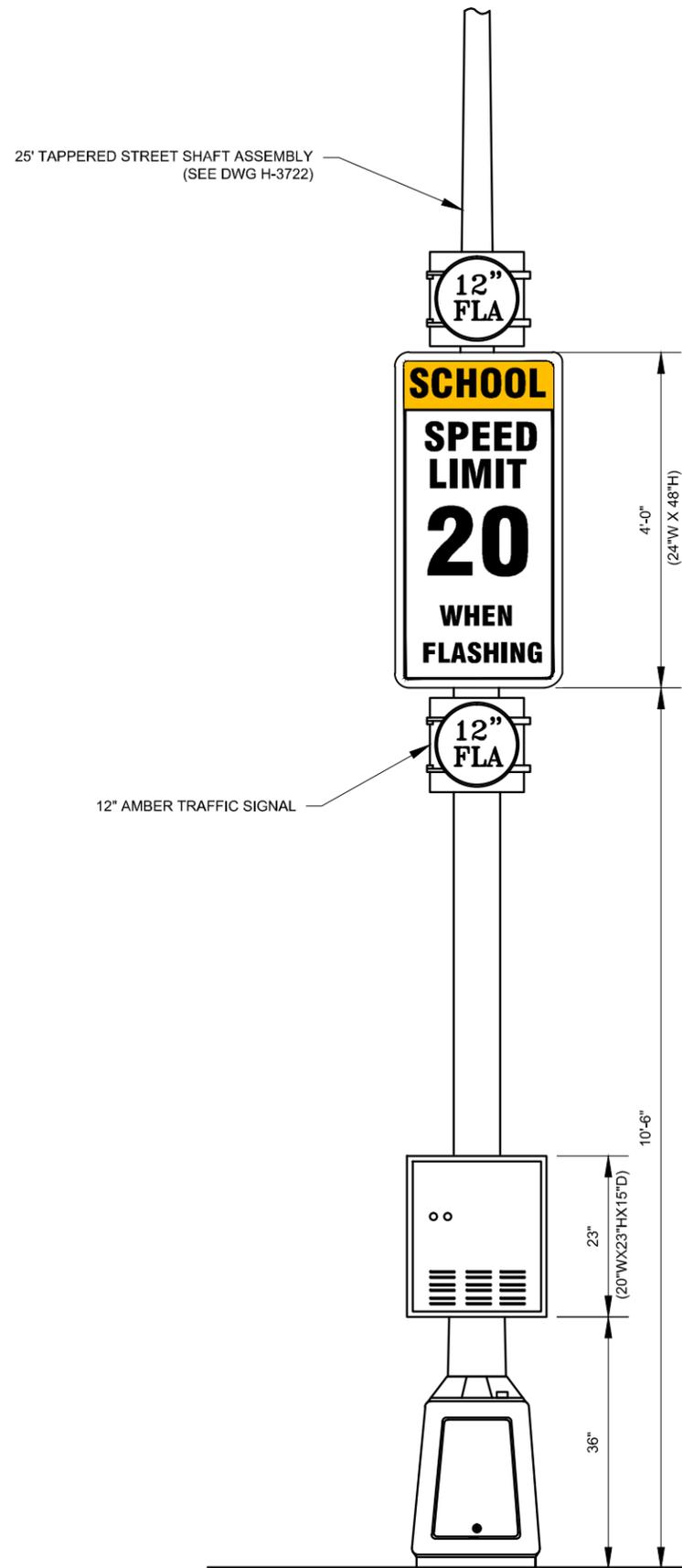
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



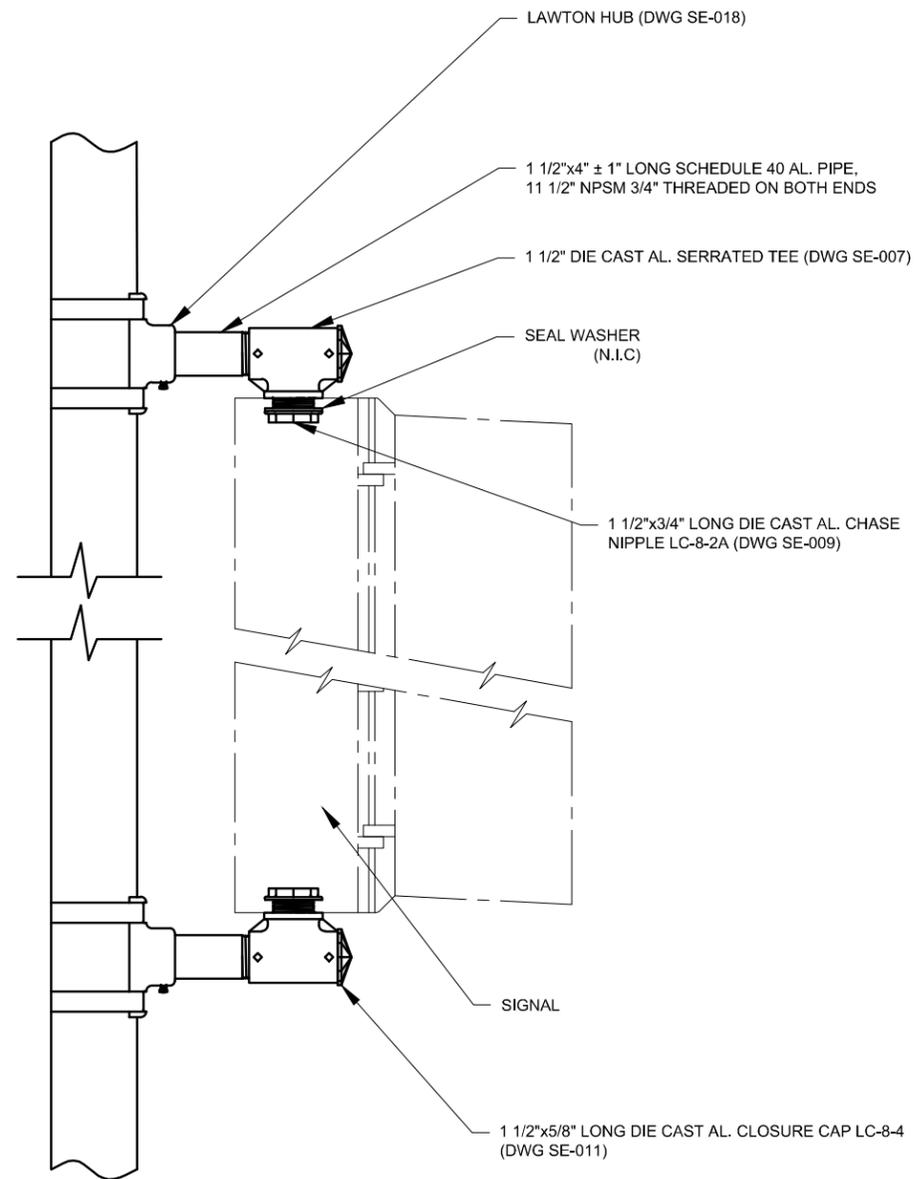
REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2012	GPI	REPLICATED IN CADD
0	12/2003	JH	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
SPEED SIGN UNIT FOR SPEED CHECK DISPLAYS		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.		MISC-002_2

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



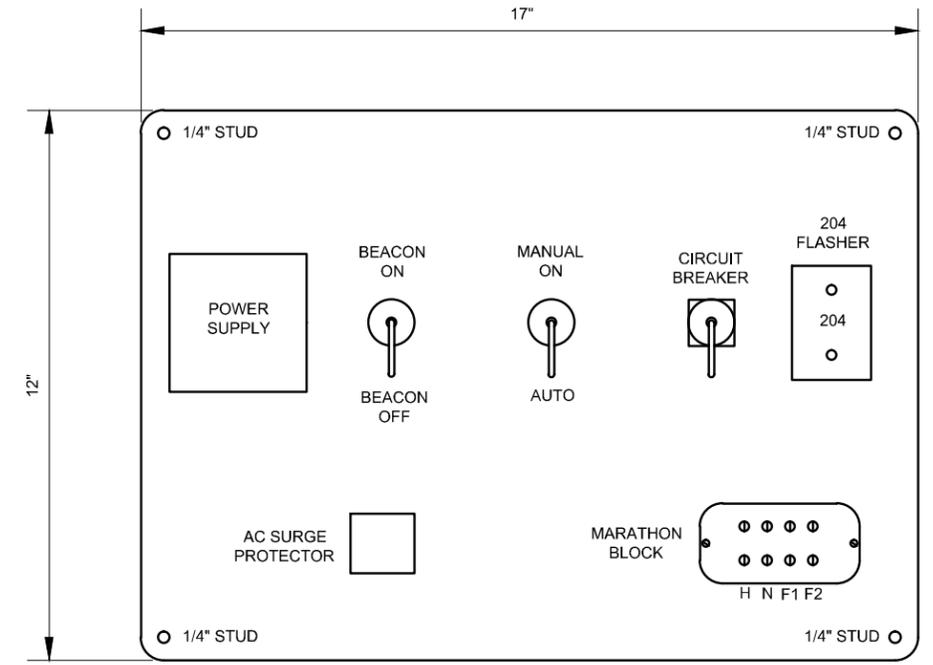
SCALE: 1/2" = 1'-0"



SCALE: 1-1/2" = 1'-0"

NOTES:

1. FOUNDATION FOR TAPERED STEEL SHAFT ASSEMBLY SHALL BE AS PER DWG H-3788.
2. STEEL TRANSFORMER BASE SHALL BE AS PER STREET LIGHTING SPEC DWG H-3722.



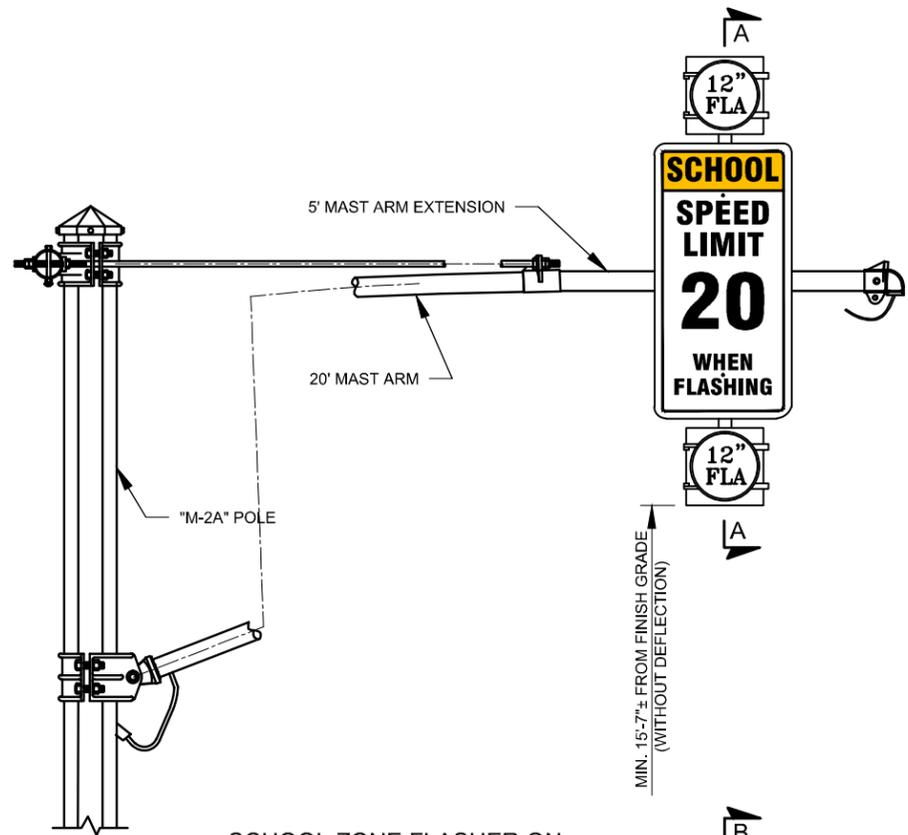
SCHOOL ZONE FLASHER PANEL

SCALE: 3" = 1'-0"

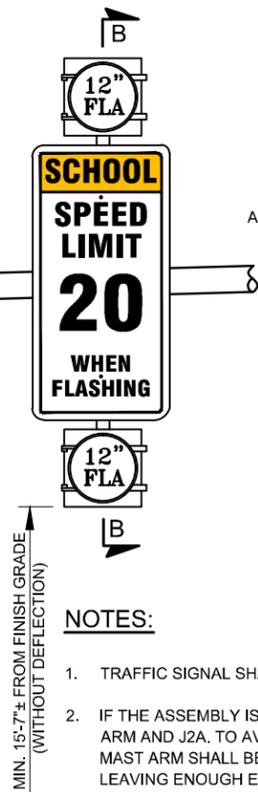


REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2012	GPI	REPLICATED IN CADD
0	10/2009	JH	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
SCHOOL ZONE FLASHER ASSEMBLY		
SCALE:	OLD DRAWING NO.	DRAWING NO.
AS NOTED	LB-14781S	MISC-003_1



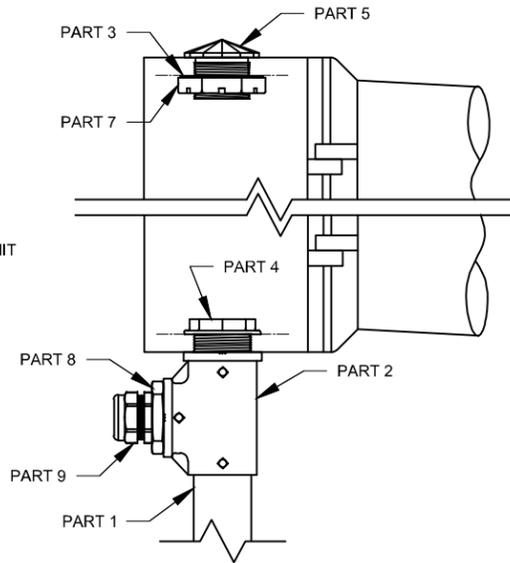
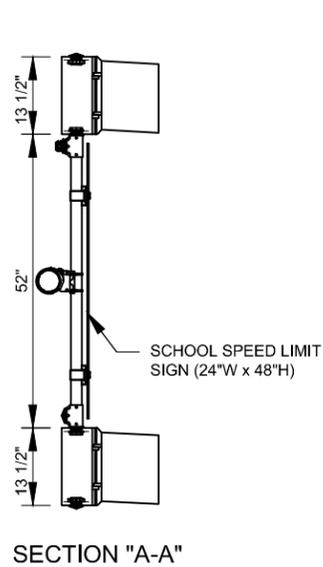
SCHOOL ZONE FLASHER ON 5' MAST ARM EXTENSION



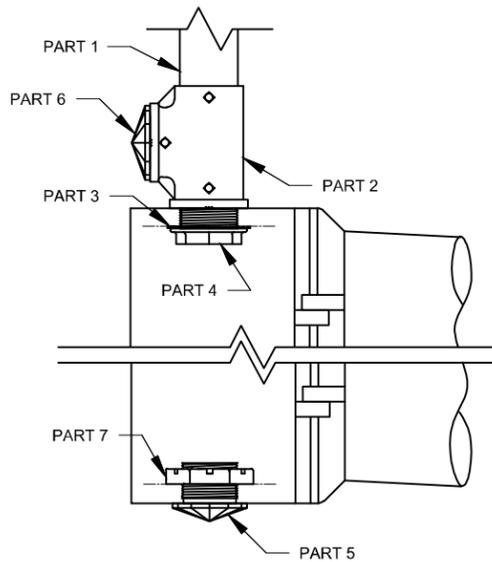
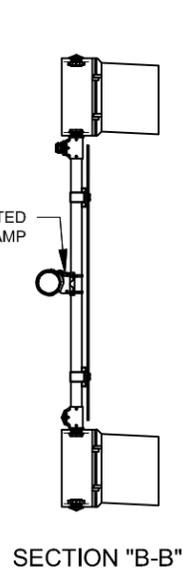
SCHOOL ZONE FLASHER ON MONOTUBE MAST ARM

NOTES:

1. TRAFFIC SIGNAL SHALL BE CENTERED OVER TRAFFIC LANE, OR AS PER ENGINEER.
2. IF THE ASSEMBLY IS MOUNTED ON A 5' MAST ARM EXTENSION, THE SIGNAL CABLE SHALL BE ROUTED THROUGH THE MAST ARM AND J2A. TO AVOID CORROSION, MAST ARM SHALL NOT BE DRILLED. ALL ELECTRICAL CABLES RUN ON EXTERIOR OF MAST ARM SHALL BE HOUSED IN 3/4" PVC CONDUIT WHICH SHALL BE CONTINUOUS, FROM POLE TO SIGNAL HOUSING LEAVING ENOUGH EXPOSED CABLE FOR CONNECTIONS AND ATTACHED WITH BANDING (SEE DWG AI-004). PVC CONDUIT SHALL BE SECURED TO MAST ARM WITH 3/4" STAINLESS STEEL BANDING AND BUCKLES SPACED NO MORE THAN 36" APART.
3. PREFERRED CABLE ENTRY OF THE ASSEMBLY IS IN UPPER SERRATED TEE, IF THE FINAL INSTALLED POSITION OF THE ASSEMBLY RESULTS IN THE LOWER SERRATED TEE BEING CLOSER TO THE MAST ARM, THE CABLE ENTRY CAN BE THROUGH THE LOWER SERRATED TEE.
4. 1 1/4" CORD GRIP SHALL BE NON-METALLIC, UV AND WEATHER RESISTANT WITH GROMMET ACCEPTING 7 TO 16 CONNECTOR AWG#14 NYC SIGNAL CABLES WITH DIAMETER RANGE OF 0.51"-0.79" (HUMMEL HSK-K #1.209.5401.71 OR EQUAL). FOUR CONDUCTOR AWG#14 NYC SIGNAL CABLE IS NOT TO BE USED IN THIS INSTALLATION.



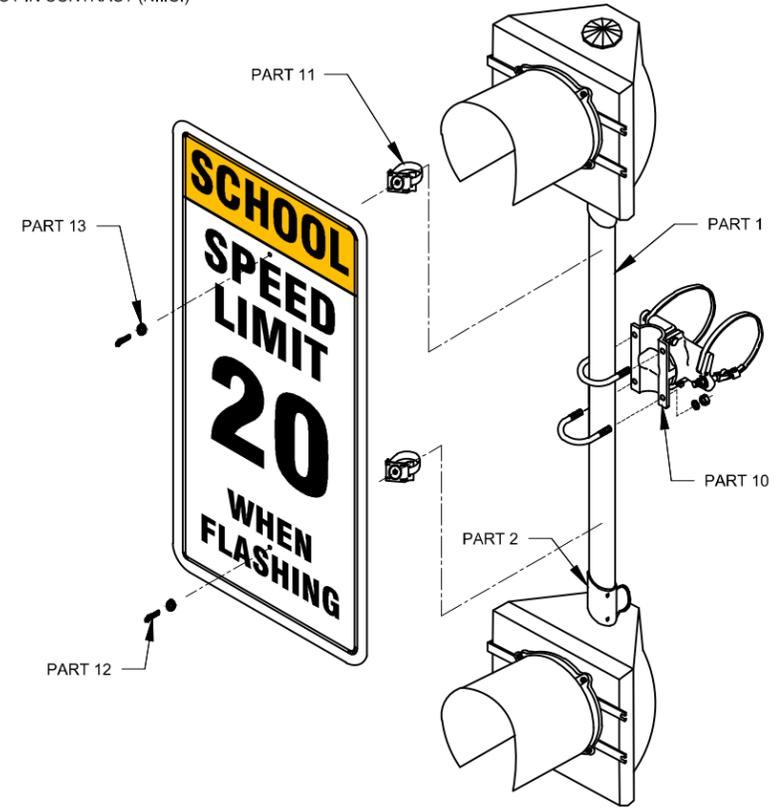
UPPER SIGNAL ASSEMBLY DETAIL



LOWER SIGNAL ASSEMBLY DETAIL

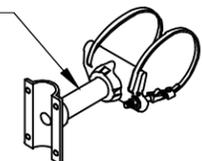
PARTS LIST				
PART	DESCRIPTION	DWG NO.	QTY.	
1	1 1/2"x46 1/2" LONG SCHEDULE 40 AL. PIPE, 11 1/2 NPSM 1 1/4" THREADED ON BOTH ENDS			1
2	1 1/2" DIE CAST AL. SERRATED TEE	SE-007_2		2
3	NEOPRENE SEAL WASHER 2 3/4" ODx1 7/8" IDx1/8" TH (N.I.C*)			2
4	1 1/2"x2" LONG DIE CAST AL. CHASE NIPPLE (LC-8-2A)	SE-009		2
5	1 1/2"x1 3/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-6)	SE-011		2
6	1 1/2"x5/8" LONG DIE CAST AL. CLOSURE CAP (LC-8-4)	SE-011		1
7	1 1/2" DIE CAST AL. PIPE LOCKNUT	SE-010		2
8	1 1/2" MALE X 1 1/4" FEMALE NPT REDUCING BUSHING, HIGH IMPACT UV-RESISTANT PLASTIC (SEE NOTE 4)			1
9	1 1/4" MNPT UV AND WEATHER RESISTANT CORD GRIP (SEE NOTE 4)			1
10	ARTICULATED CLAMP FOR 1 1/2" PIPE			1
11	FLARED-LEG STAINLESS STEEL SIGN MOUNTING BRACKET			2
12	5/16"-18x5/8" LONG STAINLESS STEEL HEX BOLT			2
13	5/16" STAINLESS STEEL/NEOPRENE WASHERS			2

* - NOT IN CONTRACT (N.I.C.)



SCHOOL ZONE FLASHER ASSEMBLY

1 1/2" SCHEDULE 80 AL. PIPE EXTENSION, 11 1/2 NPSM 1 1/2" THREADED ON BOTH ENDS

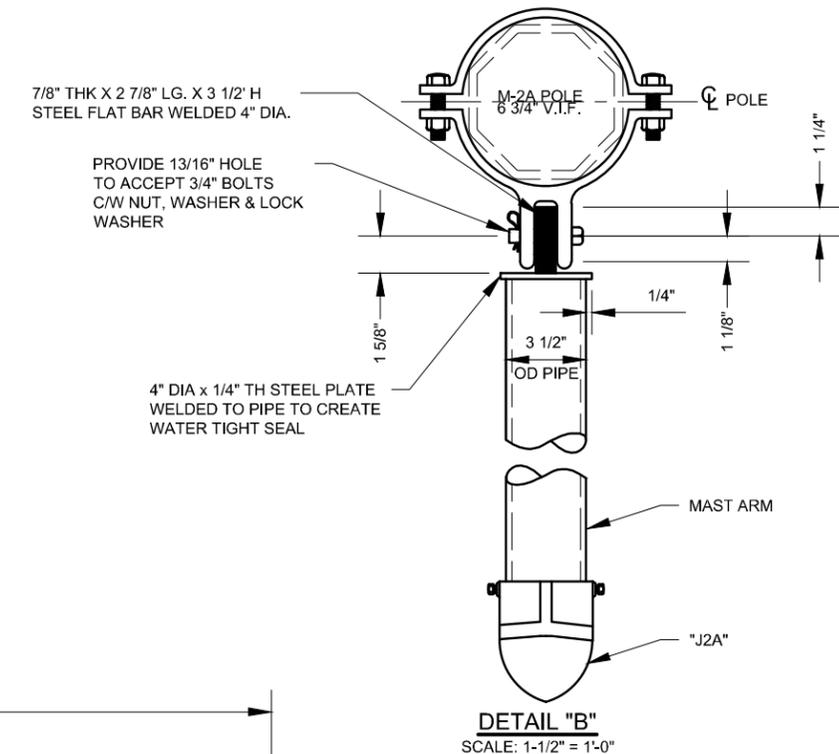
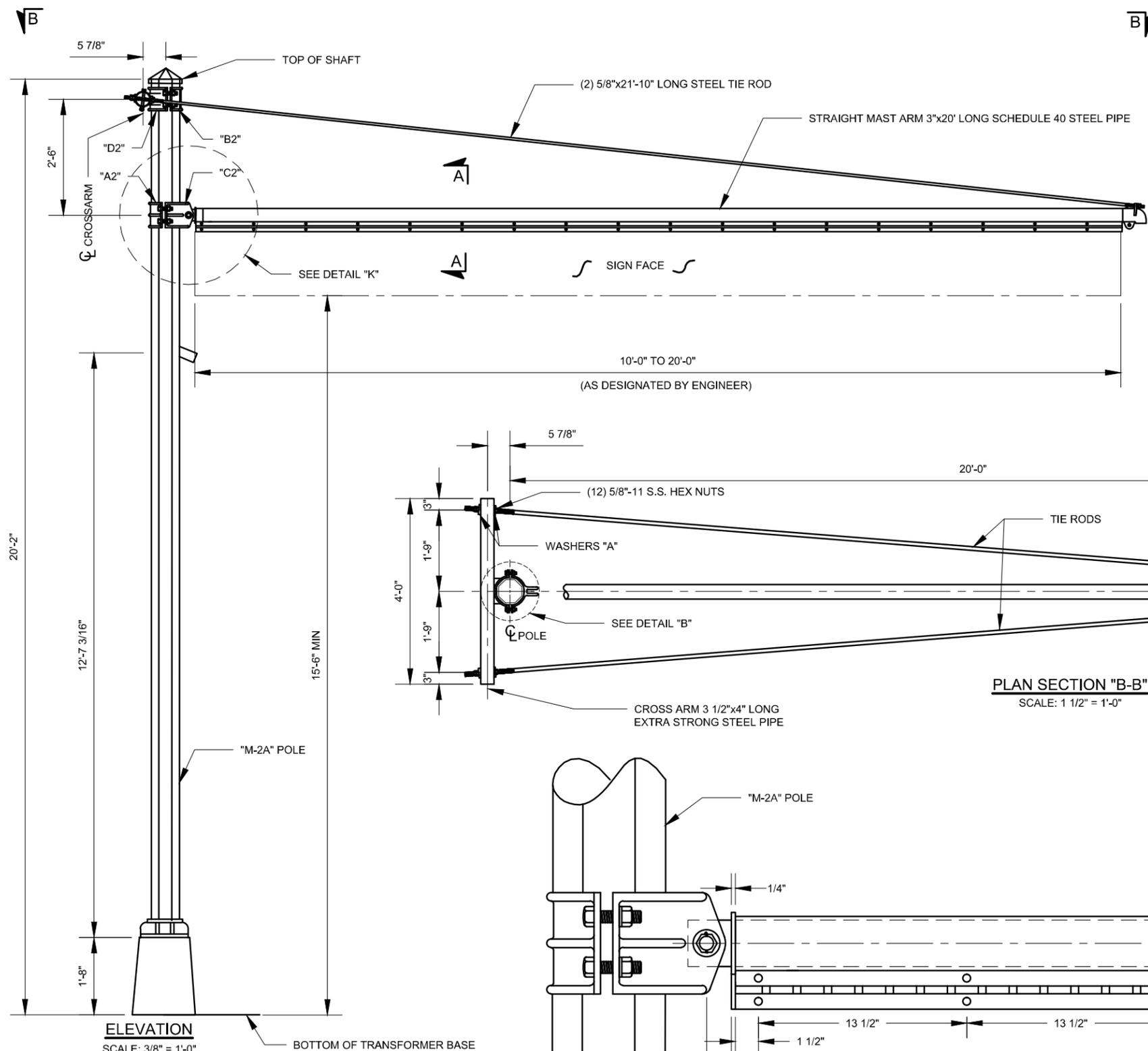


EXTENDED MOUNT CLAMP

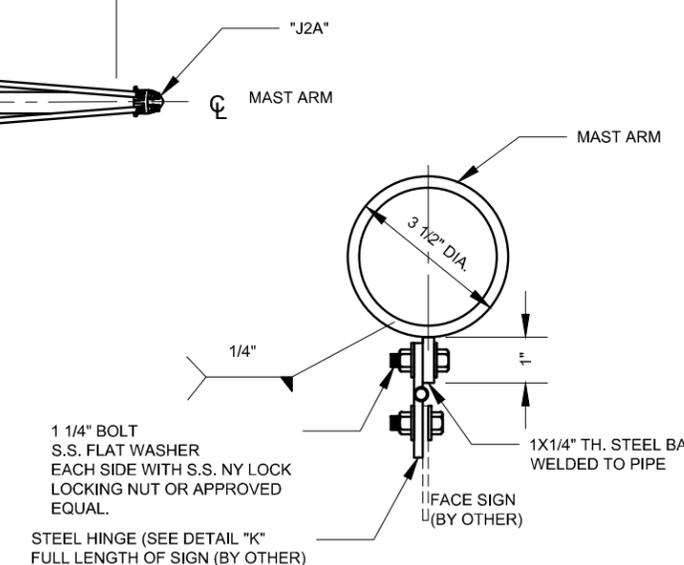
REVISION			
NO	DATE	BY	DESCRIPTION
0	07/2013	DR	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
SCHOOL ZONE FLASHER ON MAST ARM		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.		MISC-003_2

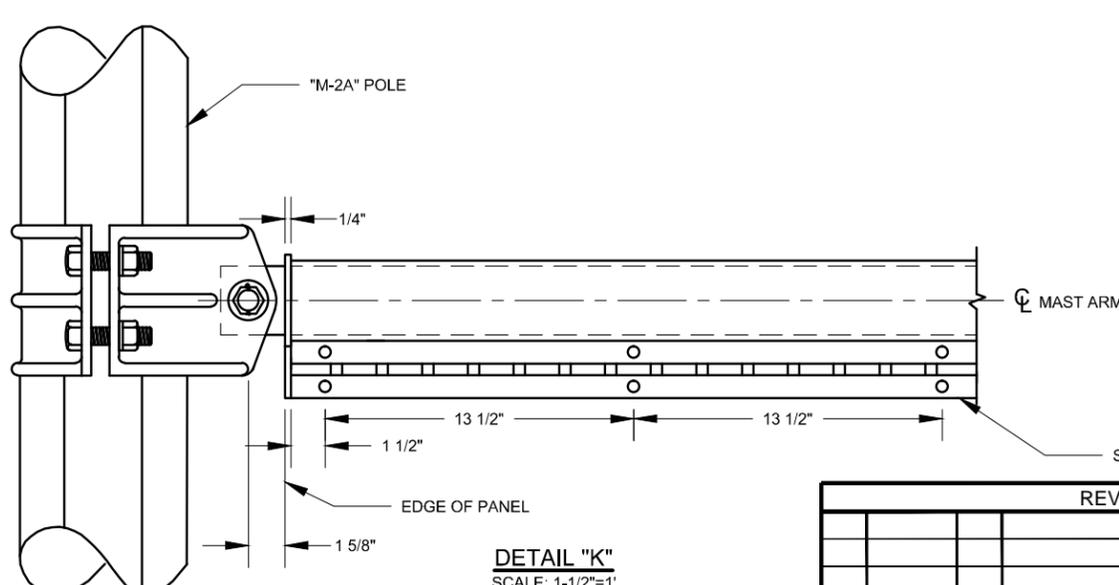




PLAN SECTION "B-B"
SCALE: 1 1/2" = 1'-0"



SECTION "A-A"
SCALE: 3" = 1'-0"



DETAIL "K"
SCALE: 1-1/2"=1'

- NOTES:**
- 15'-6" MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE BOTTOM OF THE TRANSFORMER BASE.
 - STEEL HINGE SUPPLIED BY MANUFACTURER.
 - FOR MORE DETAILS ON "M-2A" POLE, TRANSFORMER BASE, "A2", "B2", "C2", "D2", TIE RODS, WASHER "A", "J2A" SEE MAST ARM SET OF DWGS.
 - TO ACHIEVE MIN CLEARANCE, "M-2A" POLE MAY HAVE TO BE INSTALLED ON FOUNDATION RAISED WITH STEEL CYLINDER (SEE DWG F-005)
 - FOUNDATION TO HAVE MINIMUM THREE ELBOWS.

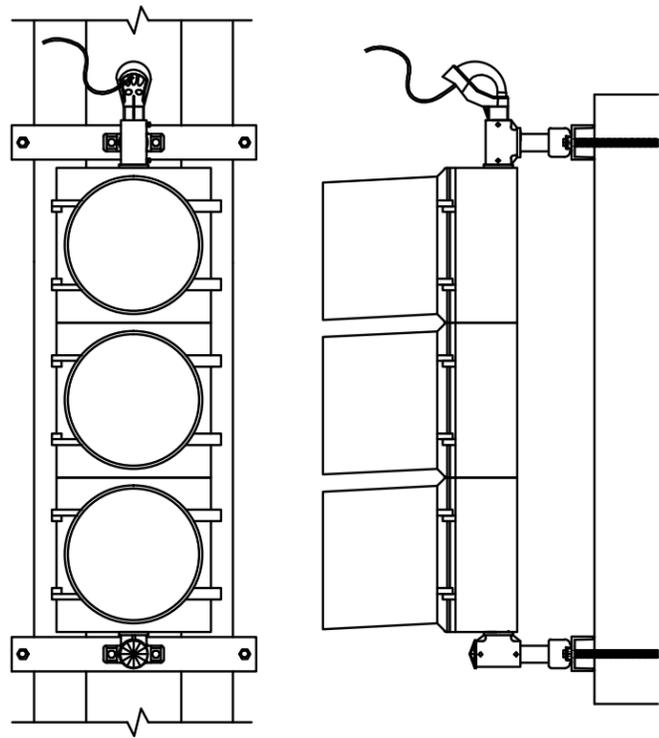
REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2012	GPI	REPLICATED IN CADD
0	N/A	N/A	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
OVERHEAD SIGN FOR "M-2A" POLE		
SCALE: AS NOTED	OLD DRAWING NO. LC-501S	DRAWING NO. MISC-004



NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013

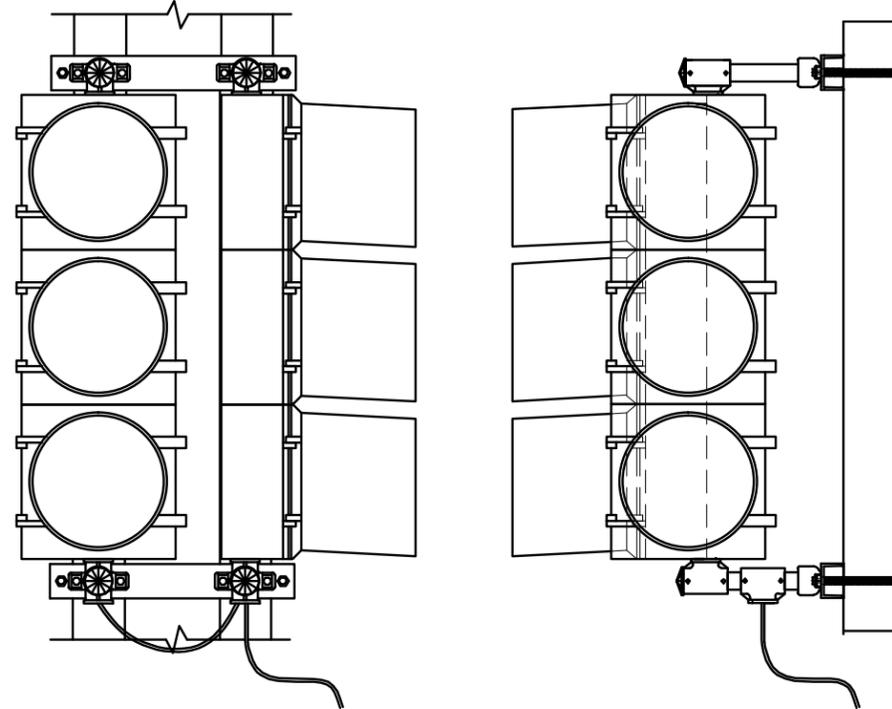
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



FRONT VIEW

SIDE VIEW

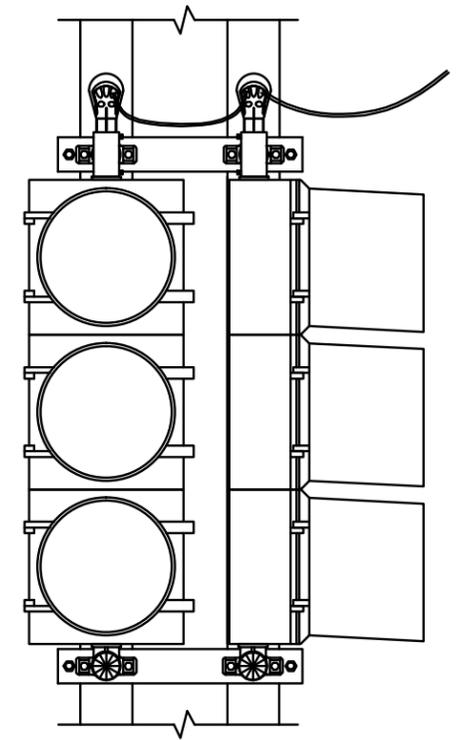
SINGLE TRAFFIC SIGNAL



FRONT VIEW

SIDE VIEW

DOUBLE TRAFFIC SIGNAL WITH
PLAIN TEE AS SERVICE ENTRANCE



FRONT VIEW

DOUBLE TRAFFIC SIGNAL
WITH SERVICE ENTRANCE CAP



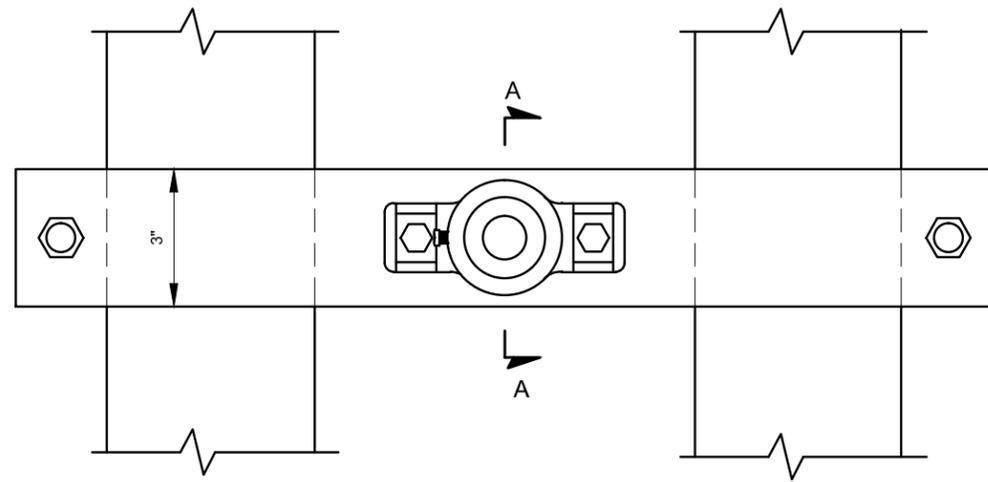
REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2012	GPI	REPLICATED IN CADD
0	03/1964	DM	CREATED

DEPARTMENT OF TRANSPORTATION
BUREAU OF TRAFFIC OPERATIONS
34-02 QUEENS BLVD L.I.C., N.Y. 11101

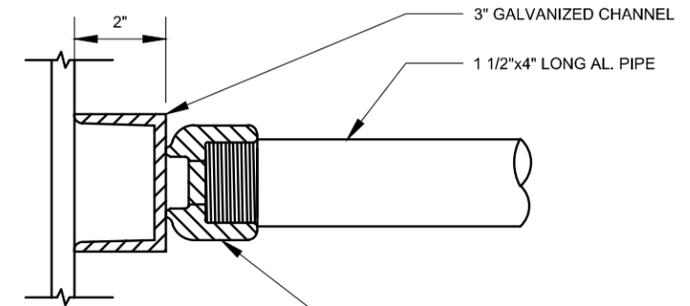
TRAFFIC SIGNALS ON "EL" COLUMN

SCALE:	OLD DRAWING NO.	DRAWING NO.
1" = 1'-0"	LG-148S	MISC-005_1

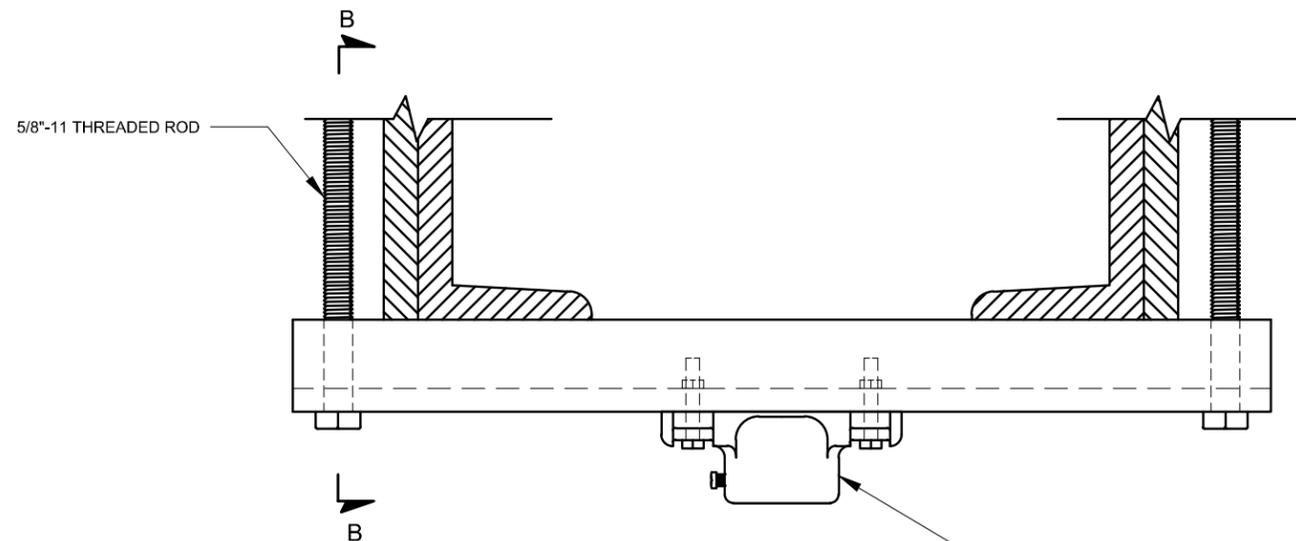
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



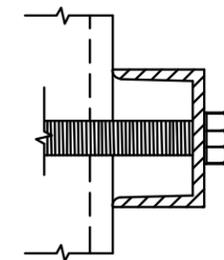
ELEVATION



SECTION "A-A"



PLAN



SECTION "B-B"



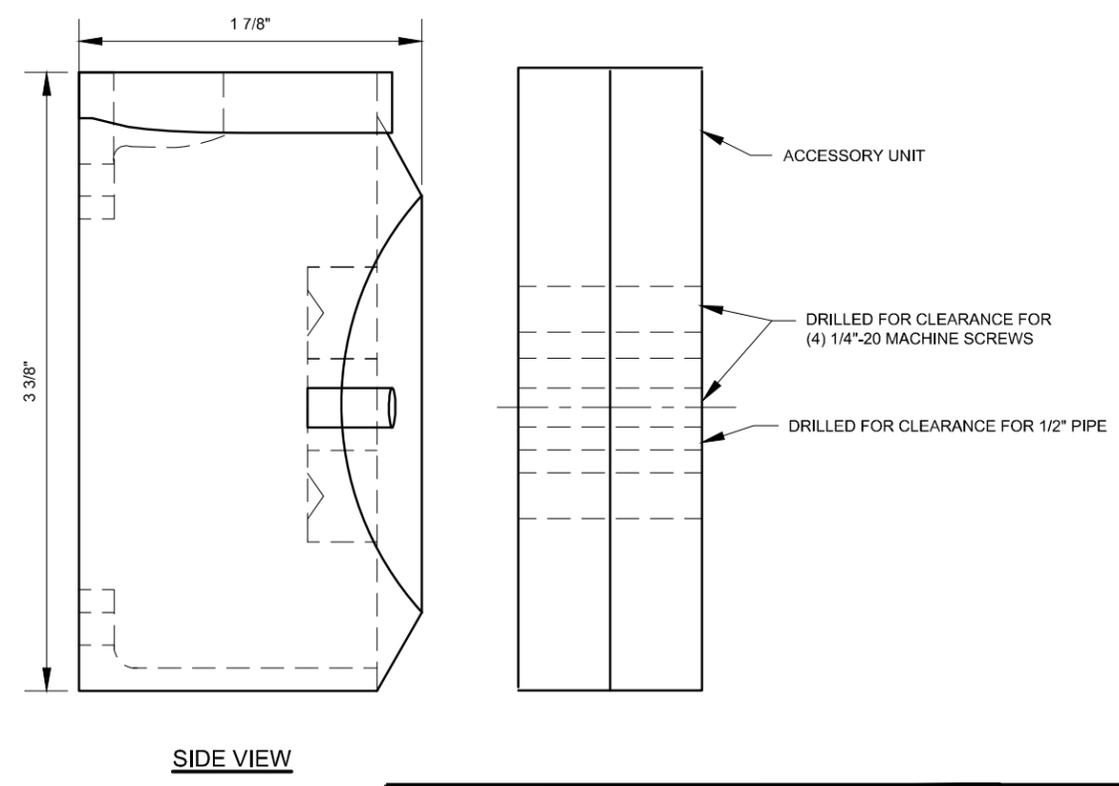
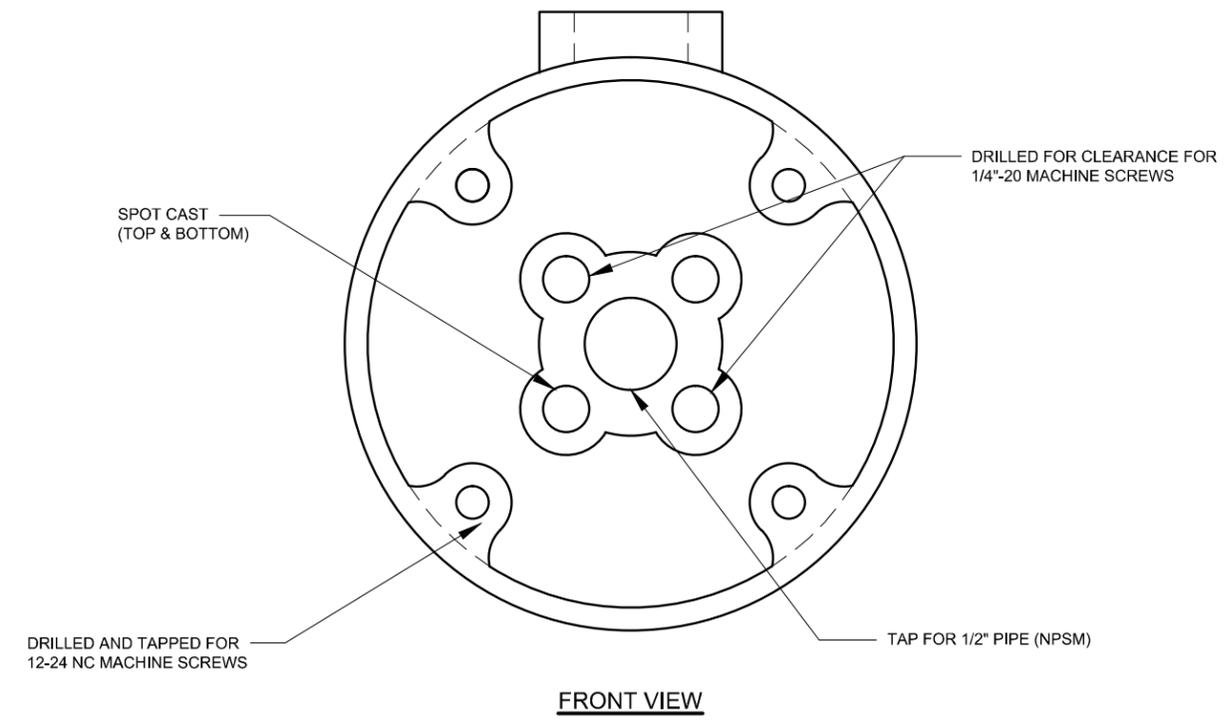
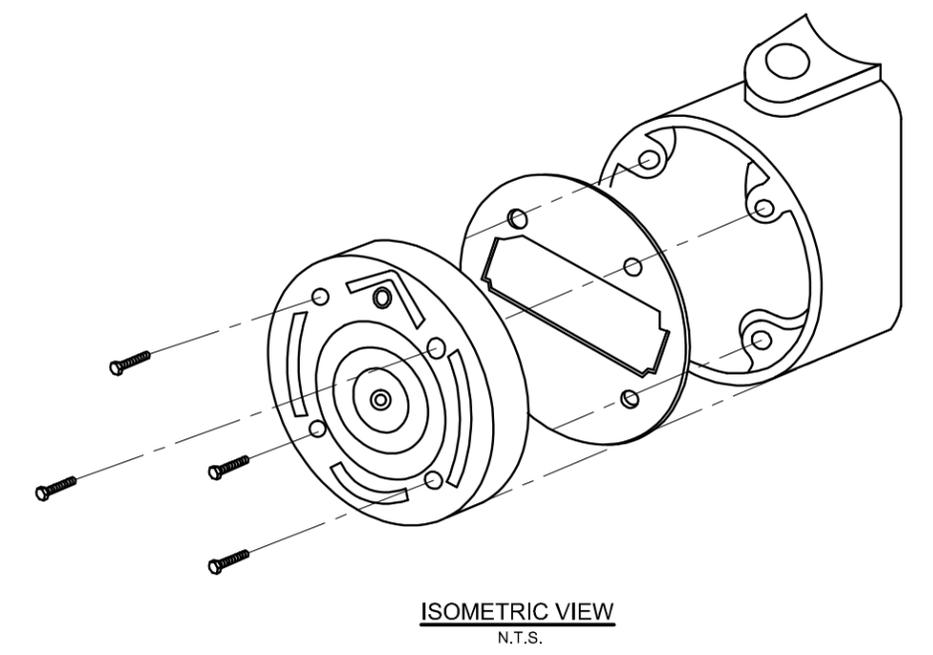
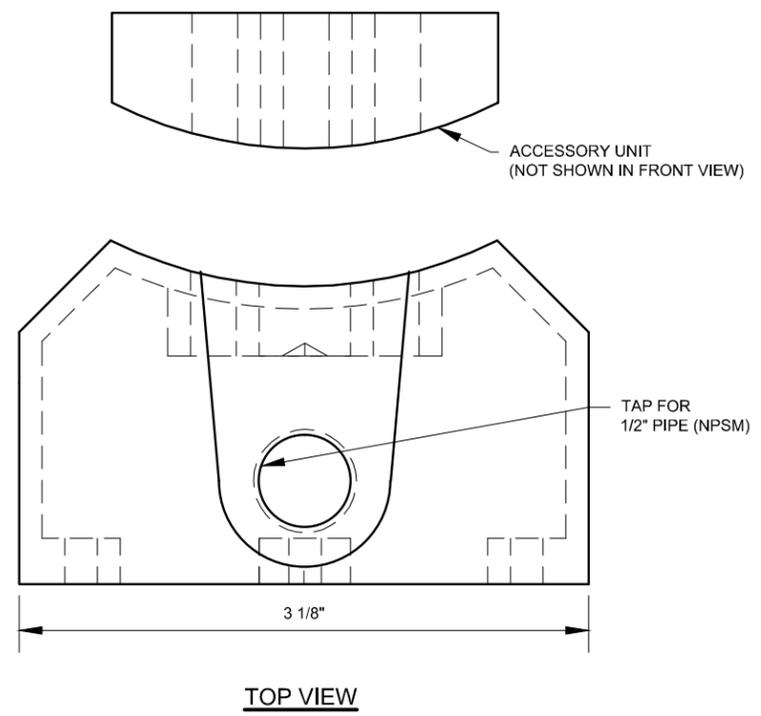
REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2012	GPI	REPLICATED IN CADD
0	03/1964	DM	CREATED

DEPARTMENT OF TRANSPORTATION
BUREAU OF TRAFFIC OPERATIONS
34-02 QUEENS BLVD L.I.C., N.Y. 11101

TRAFFIC SIGNALS ON "EL" COLUMN
DETAIL OF MOUNTING BRACKET

SCALE:	OLD DRAWING NO.	DRAWING NO.
3" = 1'-0"	LG-147S	MISC-005_2

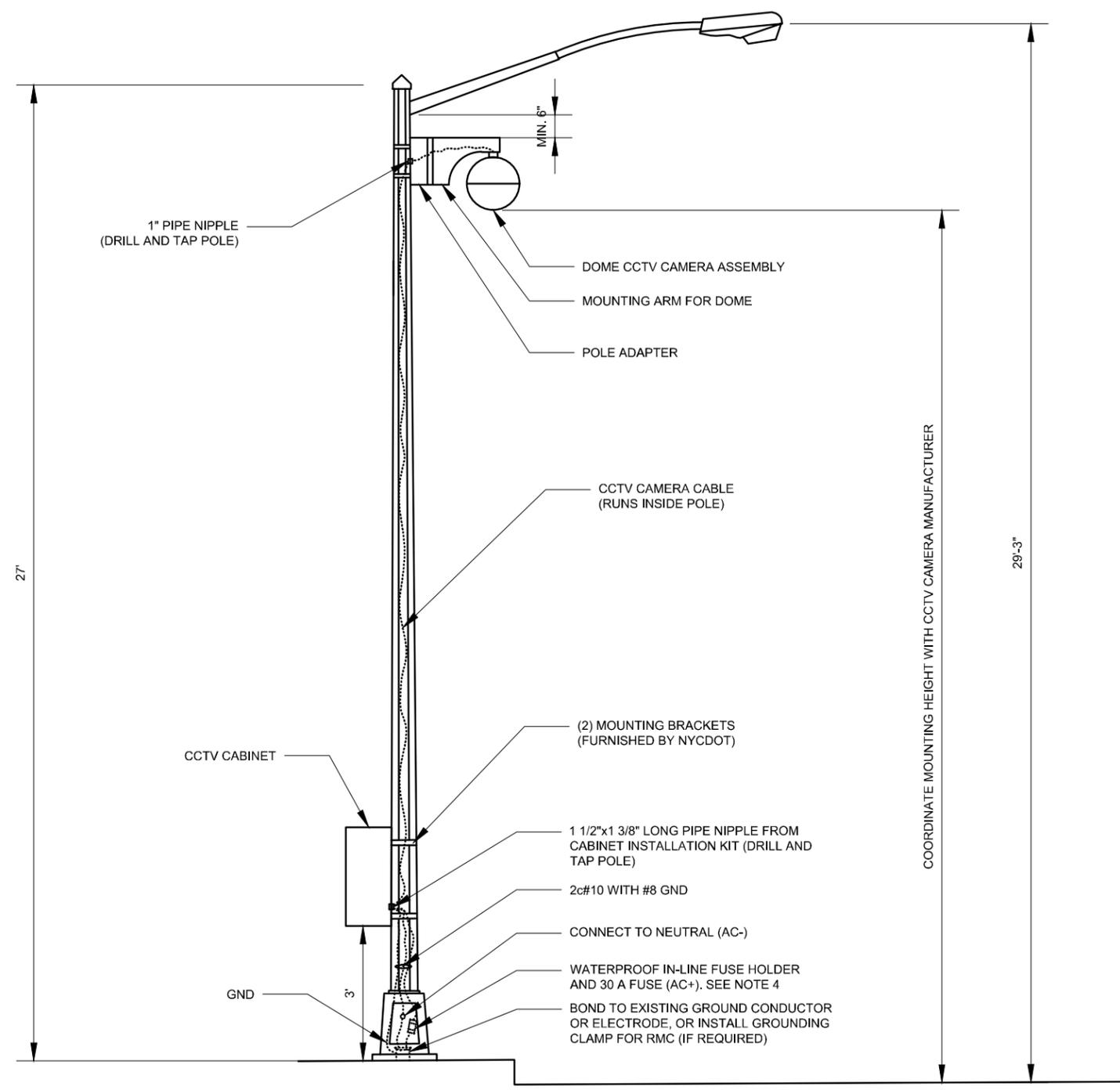
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



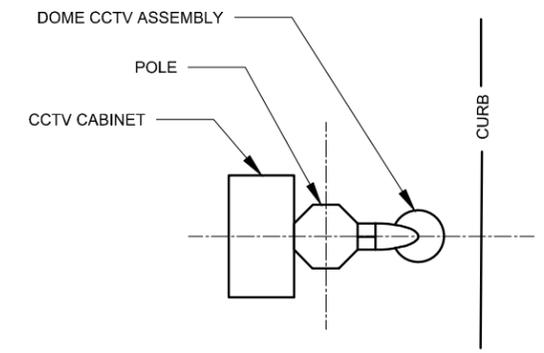
REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2012	GPI	REPLICATED IN CADD
0	3/1965	EHB	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
PUSH BUTTON POLE MOUNT		
SCALE: 1'-0" = 1'-0"	OLD DRAWING NO. LB-640S	DRAWING NO. MISC-006

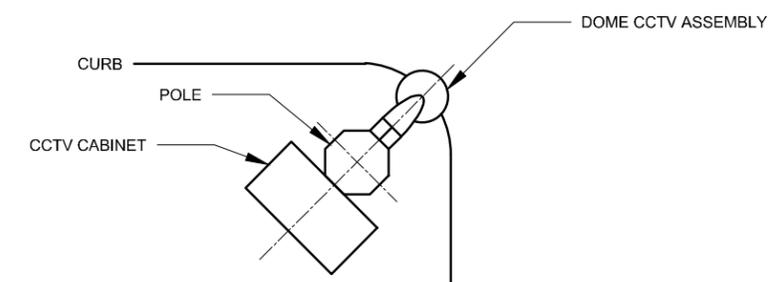
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



TYPICAL CCTV CAMERA AND CABINET INSTALLATION SHOWN ON STREETLIGHT WITH OCTAGONAL FABRICATED STEEL POLE AND LUMINAIRE



TYPICAL CCTV CAMERA/CABINET ALIGNMENT- MIDBLOCK LOCATION



TYPICAL CCTV CAMERA/CABINET ALIGNMENT- STREET CORNER LOCATION

NOTES:

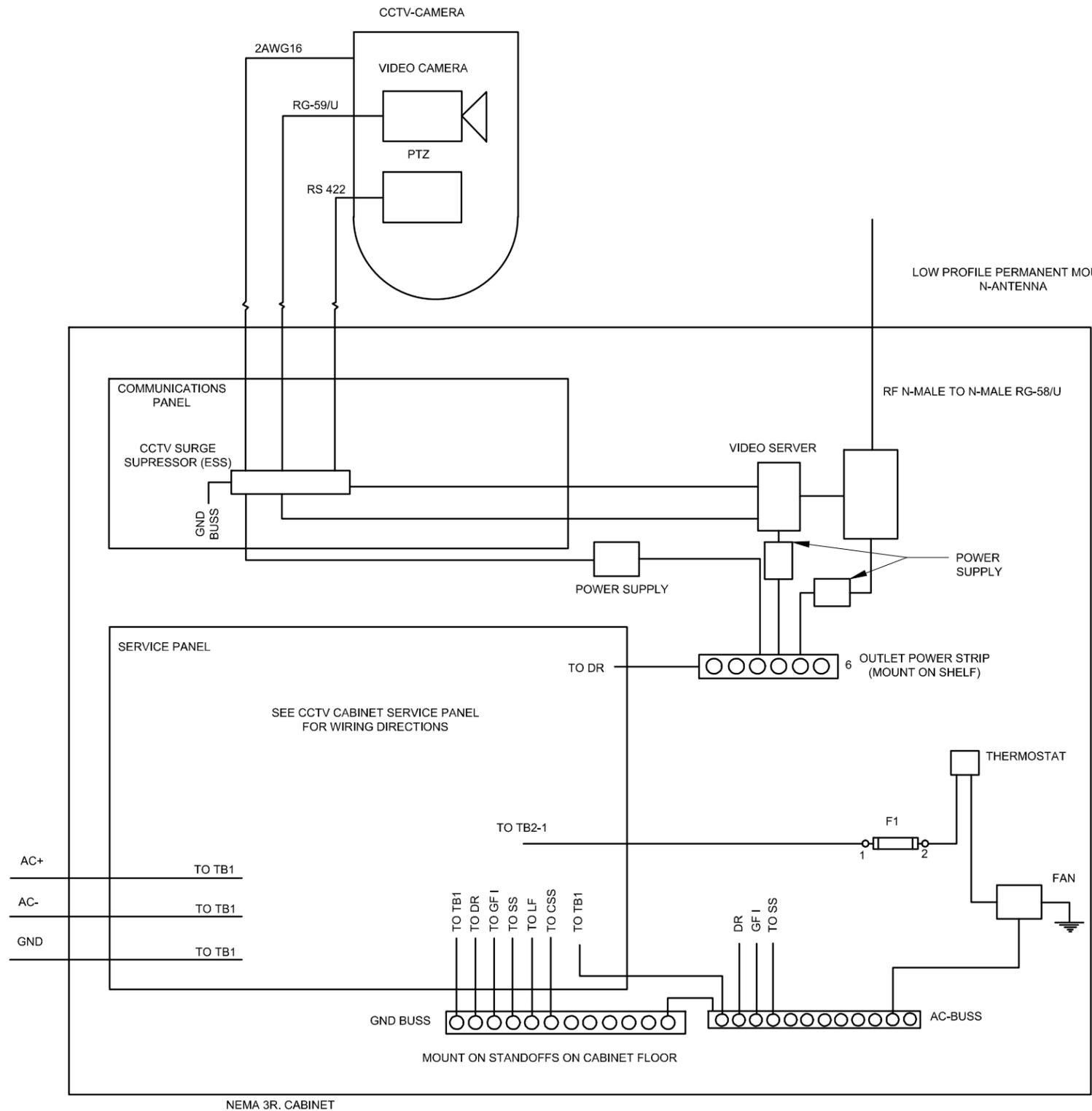
1. ACTUAL FIELD CONDITIONS WILL VARY. ADJUST MOUNTING HEIGHTS AS REQUIRED SO THAT CAMERA IS PLACED AS HIGH ON THE POLE AS PRACTICAL WHILE MAINTAINING AN OBSTRUCTED VIEW AND MIN. 6" CLEARANCE TO EXISTING DEVICE.
2. COORDINATE POLE PENETRATION LOCATIONS WITH EXISTING HOLES IN CABINET, CCTV MOUNTING ARM AND POLE ADAPTER
3. ALL CABINET MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST NYCDOT SPECIFICATION FOR ASTC CABINETS.
4. REQUIRE 24 HR 120 VAC SERVICE AT BASE OF POLE. TO BE PROVIDED BY NYCDOT (UNMETERED)



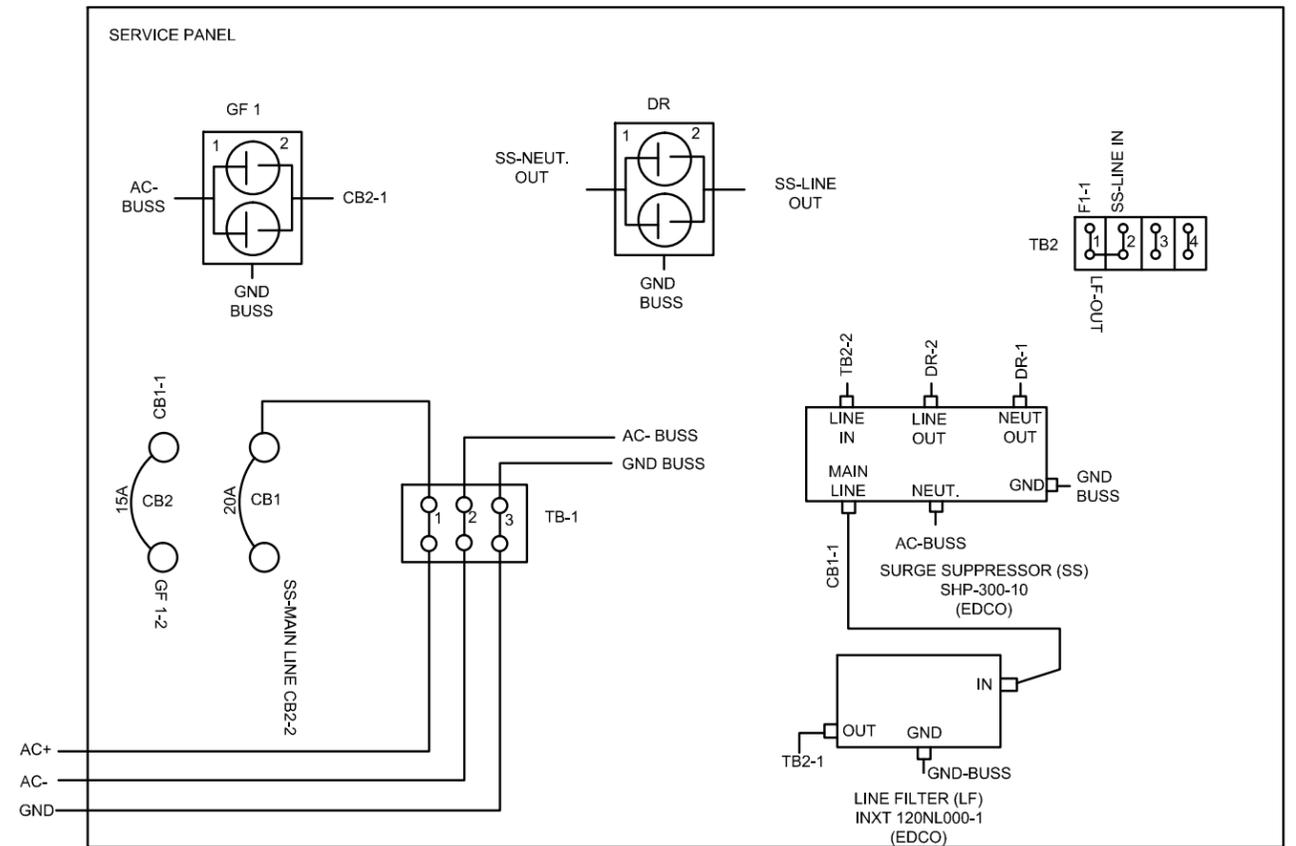
REVISION			
NO	DATE	BY	DESCRIPTION
1	03/2013	GPI	REPLICATED IN CADD
0	N/A	JO	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
CCTV EQUIPMENT MOUNTING DETAIL		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.	LB-14553S	MISC-007_1

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



CABINET WIRING DETAIL

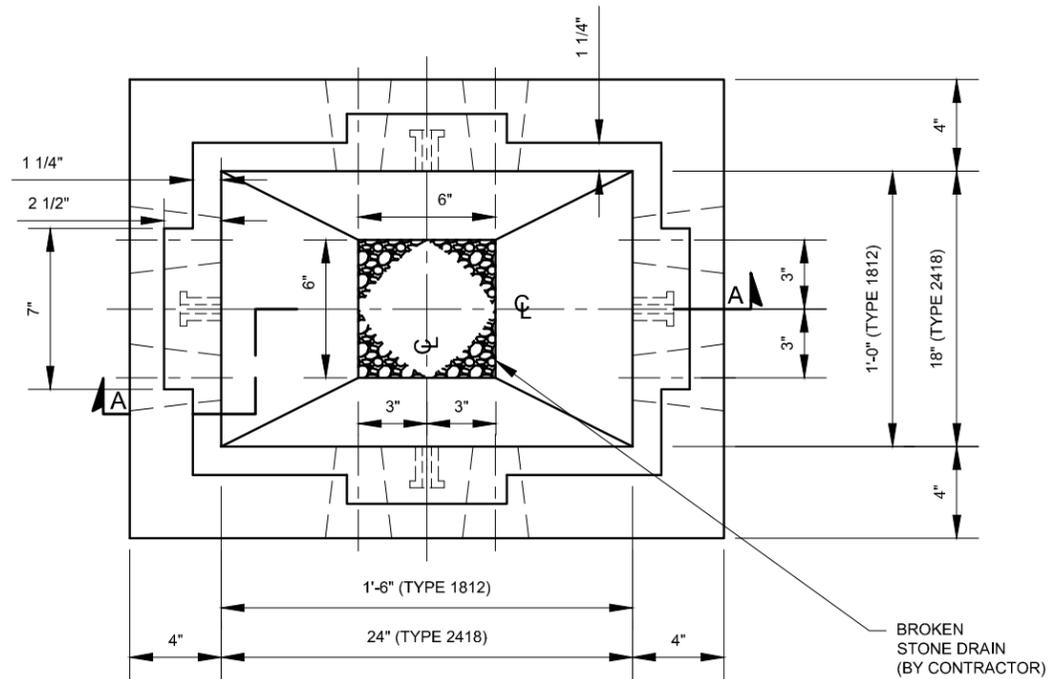


SERVICE PANEL DETAIL

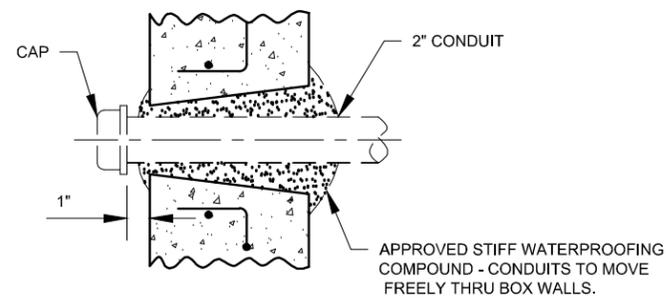


REVISION			
1	05/2012	GPI	REPLICATED IN CADD
0	N/A	JO	CREATED
NO	DATE	BY	DESCRIPTION

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
CCTV CABINET WIRING AND SERVICE PANEL DETAIL		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.	LB-145775 LB-145765	MISC-007_2



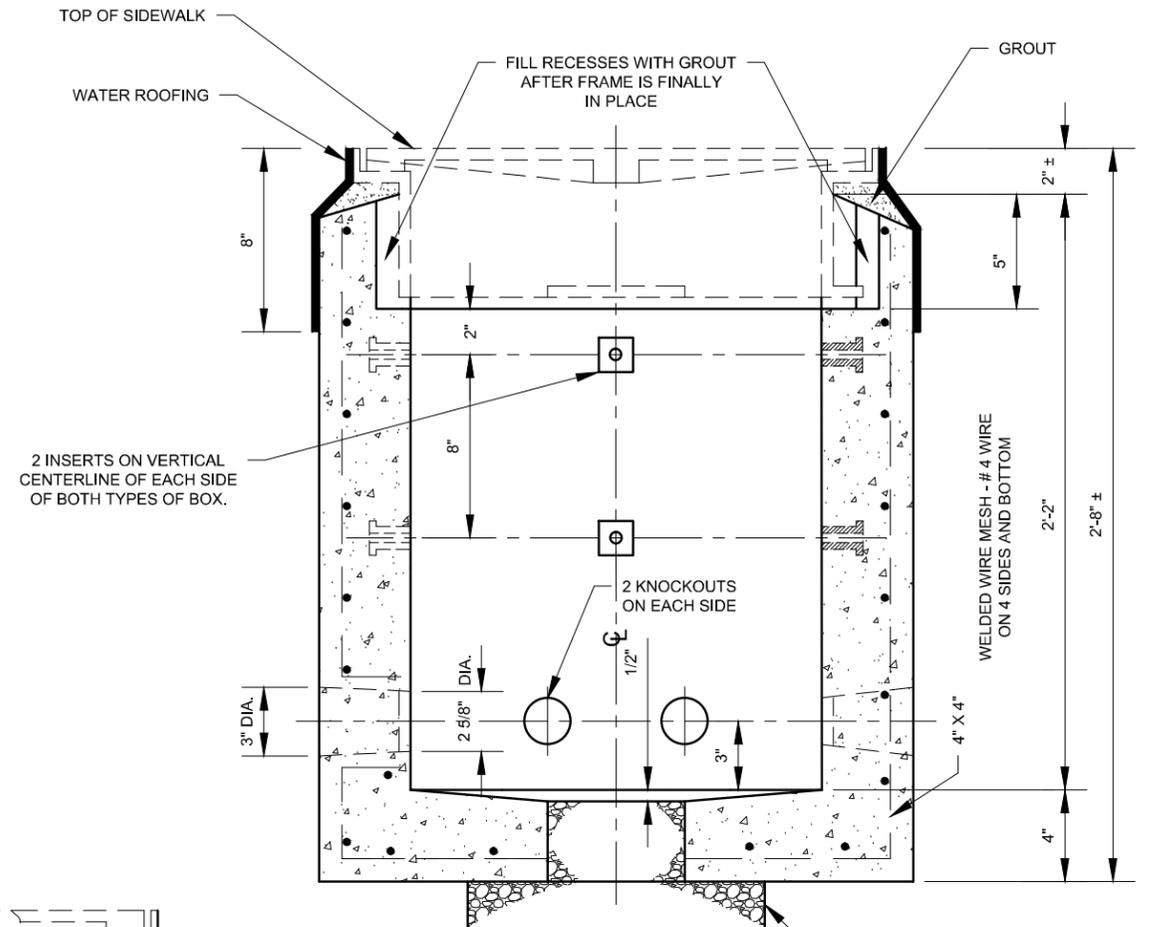
TOP VIEW
(WITHOUT METALLIC FRAME AND COVER)



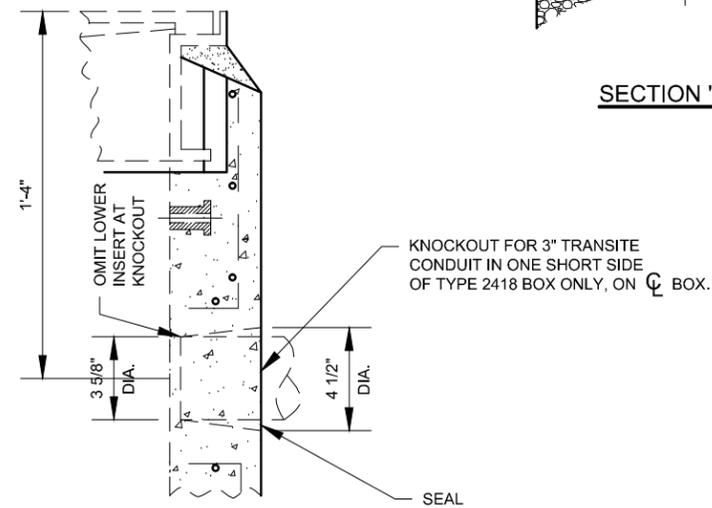
TYPICAL CONDUIT INSTALLATION

NOTES:

1. FOR CAST FRAME AND STEEL COVER SEE DWG. MISC-008_2.
2. PLUG UNUSED INSERTS WITH 5/16"-18x1 1/4" LONG WELL GREASED CAP SCREW.
3. PROVIDE EXTRA KNOCKOUTS, IF NECESSARY, TO AGREE WITH INTERSECTION DRAWINGS.
4. CONCRETE SHALL CONSIST OF 1 PART HIGHGRADE PORTLAND CEMENT - 2 PARTS CLEAN SHARP SAND OR TRAP ROCK GRANITE OR GRAVEL SCREENINGS - 4 PARTS HARD CRUSHED ROCK OR GRAVEL (1" SIZE) - FRESH WATER.



SECTION "A - A"



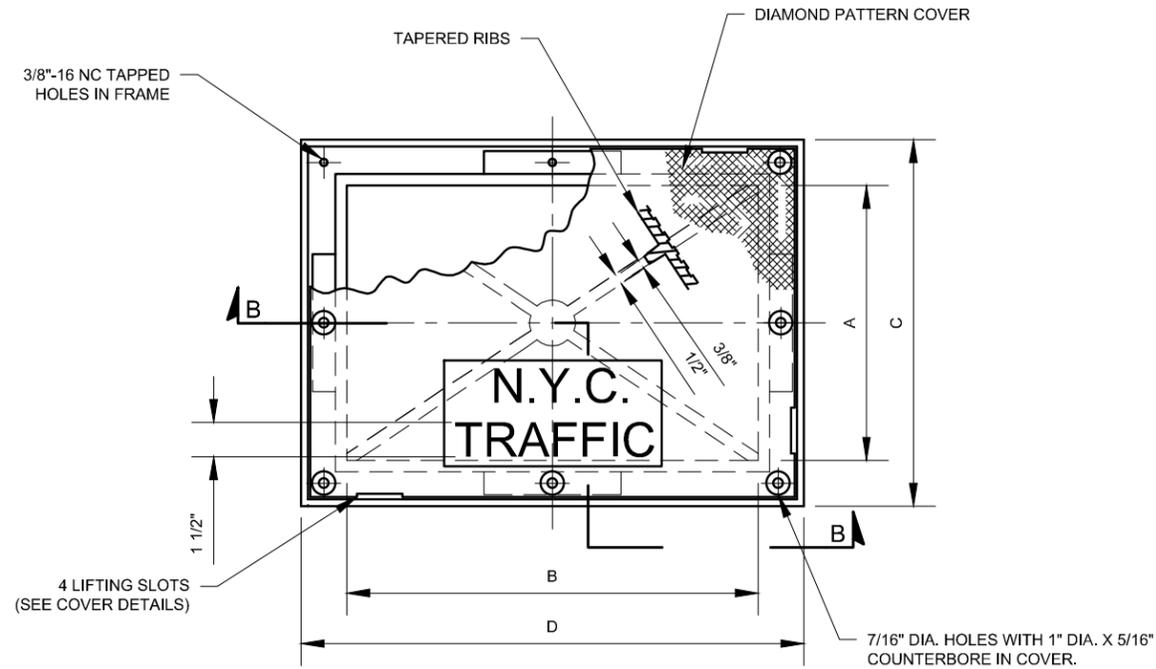
EXTRA KNOCKOUT IN TYPE 2418 BOX ONLY FOR "MK" DETECTOR

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013

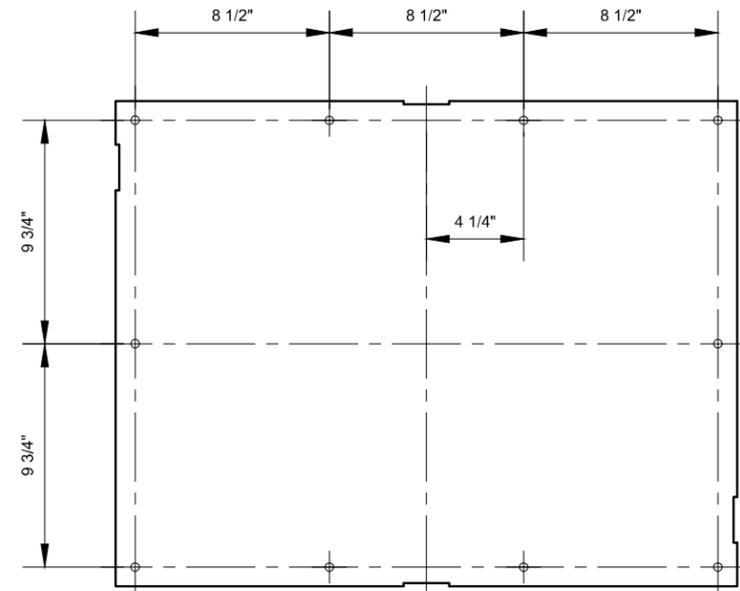


REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2012	GPI	REPLICATED IN CADD
0	03/1963	JB	CREATED

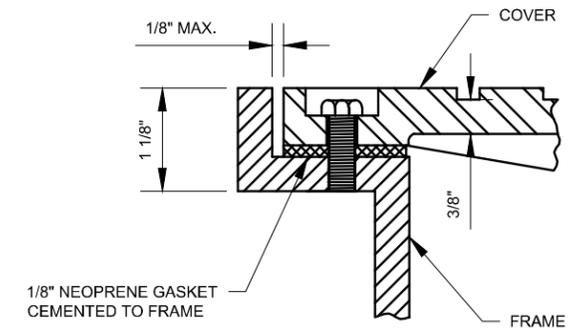
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
PRECAST CONCRETE TRAFFIC SIDEWALK BOX		
SCALE: 1 1/2"=1'-0"	OLD DRAWING NO. LG-118-S	DRAWING NO. MISC-008_1



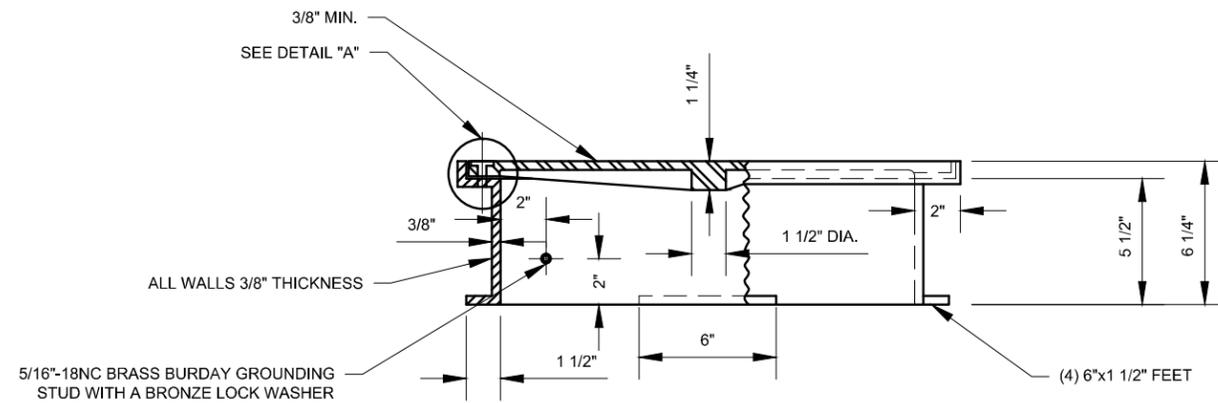
PLAN



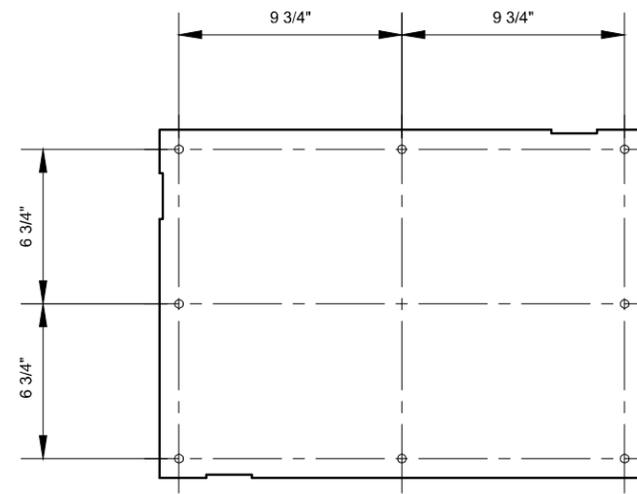
COVER FOR TYPE 2418



DETAIL "A" (TYPICAL)



SECTIONAL - ELEVATION "B-B"



COVER FOR TYPE 1812

TYPE	DIMENSIONS				NO. OF SCREWS
	A	B	C	D	
1812	12"	18"	16"	22"	8
2418	18"	24"	22"	28"	10

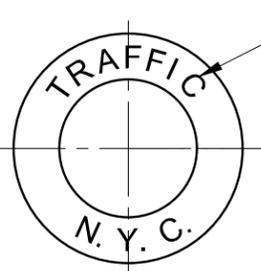
NOTES:

- FOR DETAIL OF PRECAST CONCRETE TRAFFIC SIDEWALK BOX SEE DRAWING MISC-008_1.
- ALL SCREWS IN COVER SHALL BE 3/8" HEX. HEAD, 7/8" LONG OF STAINLESS STEEL OR MONEL.
- LETTERING IN COVER TO BE 1/8" RAISED LETTERS IN A 1/8" RECESS.
- FRAME AND COVER DIMENSIONS MAY VARY WITHIN NORMAL FOUNDRY TOLERANCES.
- FRAME AND COVER TO BE HOT - DIPPED GALVANIZED.
- FRAME TO BE GRAY CAST IRON, AS PER ASTM SPEC. A48-62, CLASS 30.
- COVER TO BE CAST STEEL AS PER ASTM SPEC. A27-65, GRADE 70-40. (ALTERNATE COVER MAY BE CAST NODULAR IRON, AS PER ASTM SPEC. A536-65T, GRADE 65-45-12).

REVISION				
NO	DATE	BY	DESCRIPTION	
3	05/2012	GPI	REPLICATED	
2	4/1972	JB	CORRECTED NOTE NO.7	
1	12/1965	JB	REDRAWIN	
0	03/1963	JB	CREATED (SUPERSEDES LG-74-S)	

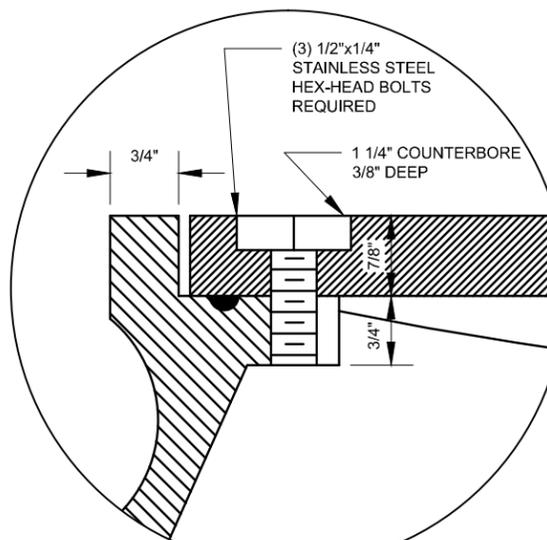
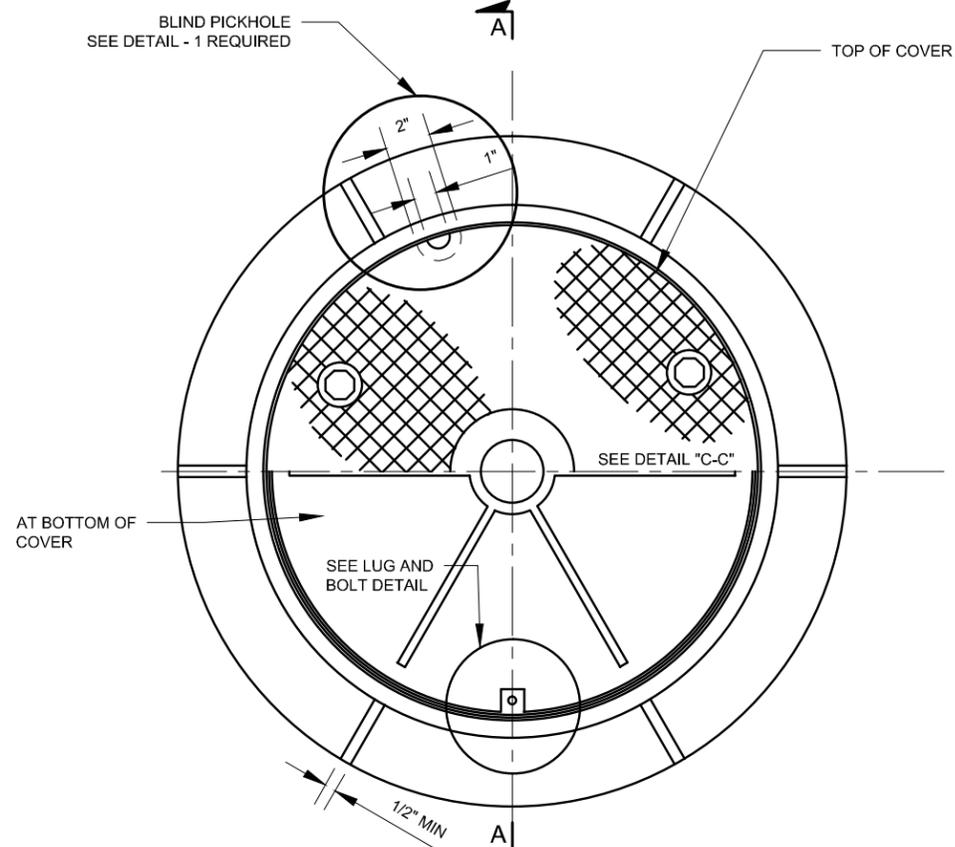
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
PRECAST CONCRETE TRAFFIC SIDEWALK BOX		
SCALE:	OLD DRAWING NO.	DRAWING NO.
AS NOTED	LG-117S	MISC-008_2



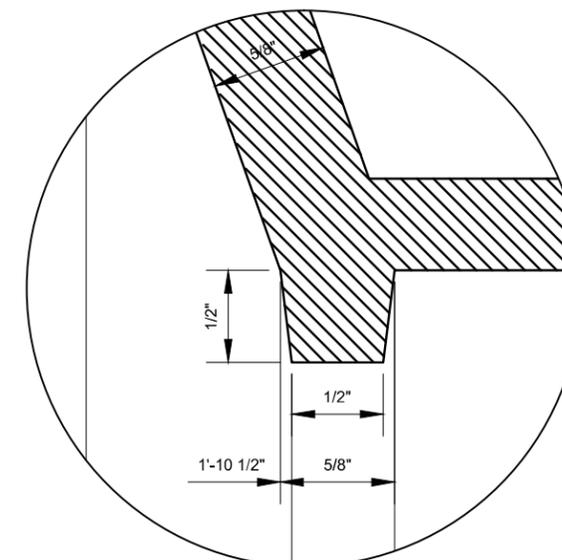


RAISED LETTERING

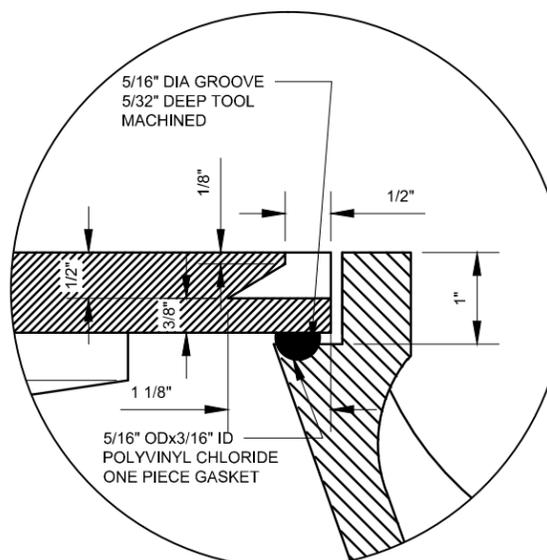
DETAIL "C-C"
N.T.S.



BOLT DETAIL
SCALE: 6" = 1'-0"

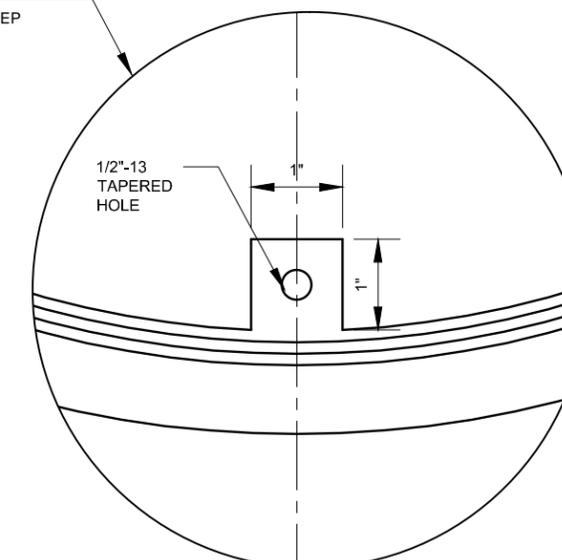


DETAIL R-R
SCALE: 1" = 1'-0"

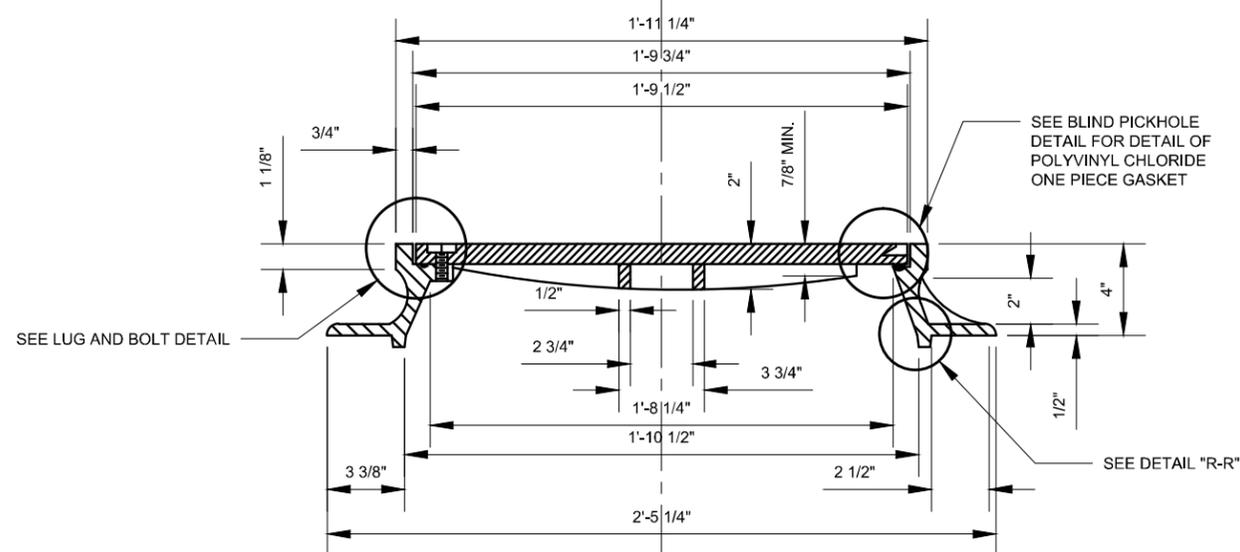


BLIND PICKHOLE DETAIL
SCALE: 6" = 1'-0"
FOR REMOVING COVER FROM FRAME

LUG SIZE
1"x1"x3/4" DEEP



LUG DETAIL
SCALE: 6" = 1'-0"



SECTION A-A
SCALE: 1 1/2" = 1'-0"

BEARING SURFACES BETWEEN FRAME AND COVER TO BE TOOL MACHINED

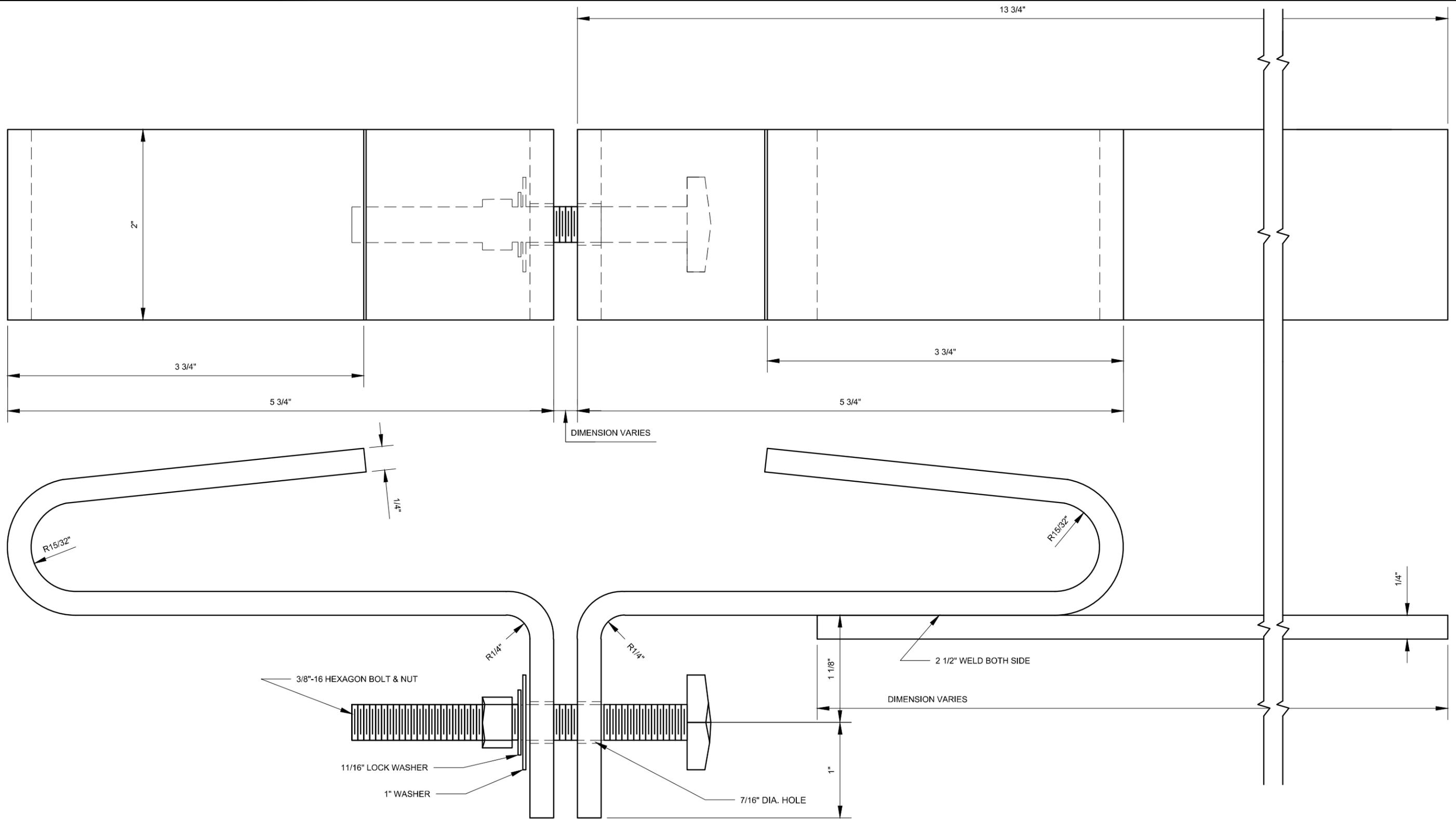


REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2012	GPI	REPLICATED IN CADD
0	05/1964	RA	CREATED

DEPARTMENT OF TRANSPORTATION
BUREAU OF TRAFFIC OPERATIONS
34-02 QUEENS BLVD L.I.C., N.Y. 11101

FRAME AND COVER FOR
TYPE C HANDBOX DETAIL

SCALE:	OLD DRAWING NO.	DRAWING NO.
AS NOTED	LG-146-S	MISC-009



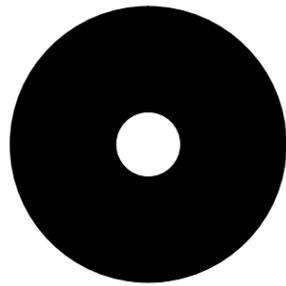
NOTES:

1. FINISH TO BE PAINTED, RED OXIDE ASTM A36 STEEL.
2. DIMENSIONS MAY VARY SUBSTANTIALLY TO DEAL WITH EXISTING FIELD CONDITIONS.



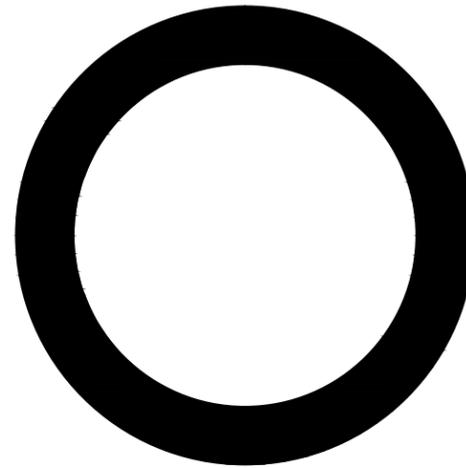
REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2012	GPI	REPLICATED IN CADD
0	N/A	N/A	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
TRAFFIC SIGNAL "J" BRACKET		
SCALE: 1'-0" = 1'-0"	OLD DRAWING NO.	DRAWING NO. MISC-010



BOLT GASKET

.125" THICK
 .364" ID
 1 1/2" OD
 NEOPRENE
 FLAME AND OIL RESISTANT
 DUROMETER IS SHORE A50
 TEMP RANGE IS -65 TO +260 F



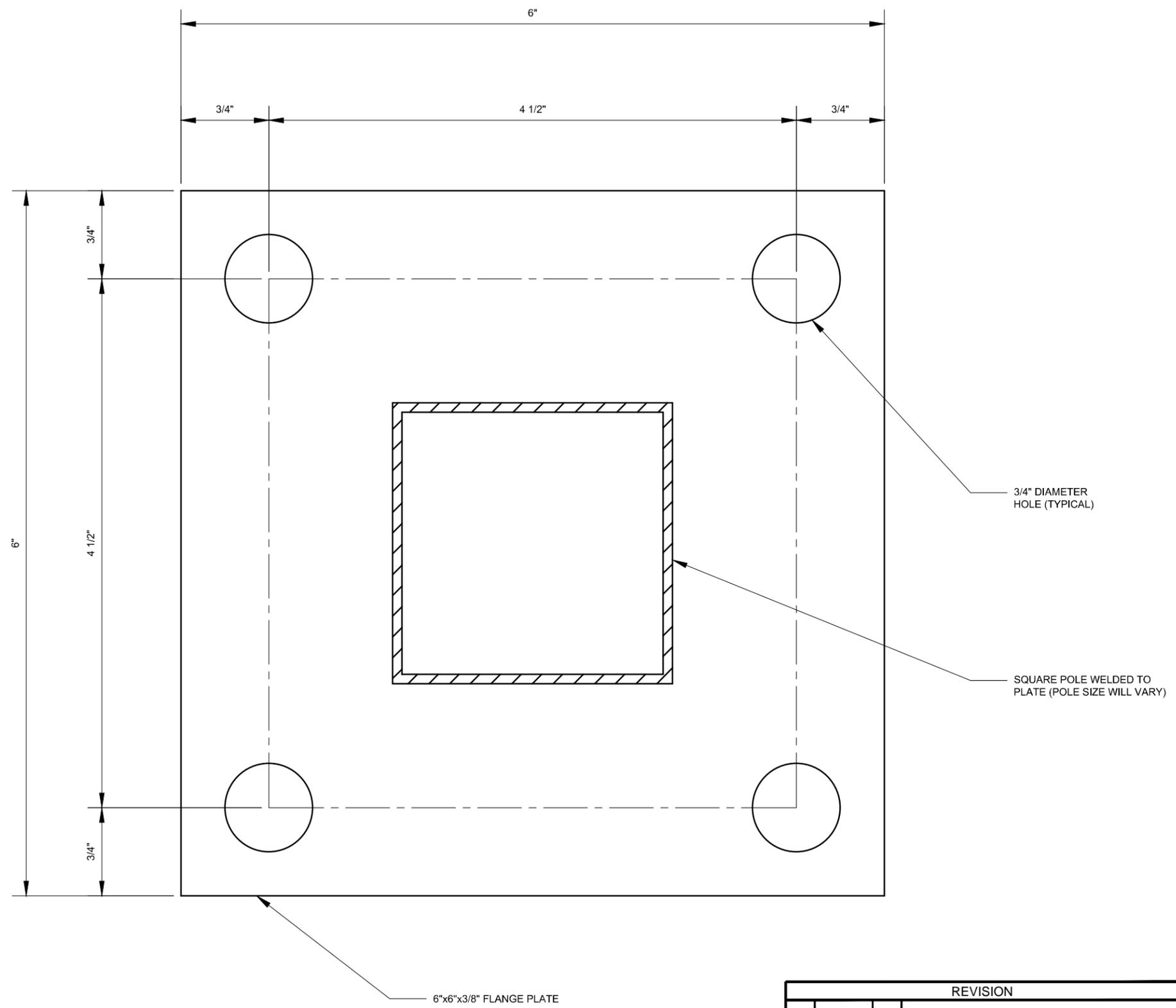
GASKET

1 7/8" ID
 2 1/2" OD
 .125" THICK



REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2012	GPI	REPLICATED IN CADD
0	08/2003	JH	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
GASKET AND BOLT GASKET DETAIL		
SCALE:	OLD DRAWING NO.	DRAWING NO.
1'-0" = 1'-0"	LB-13719S	MISC-011



3/4" DIAMETER HOLE (TYPICAL)

SQUARE POLE WELDED TO PLATE (POLE SIZE WILL VARY)

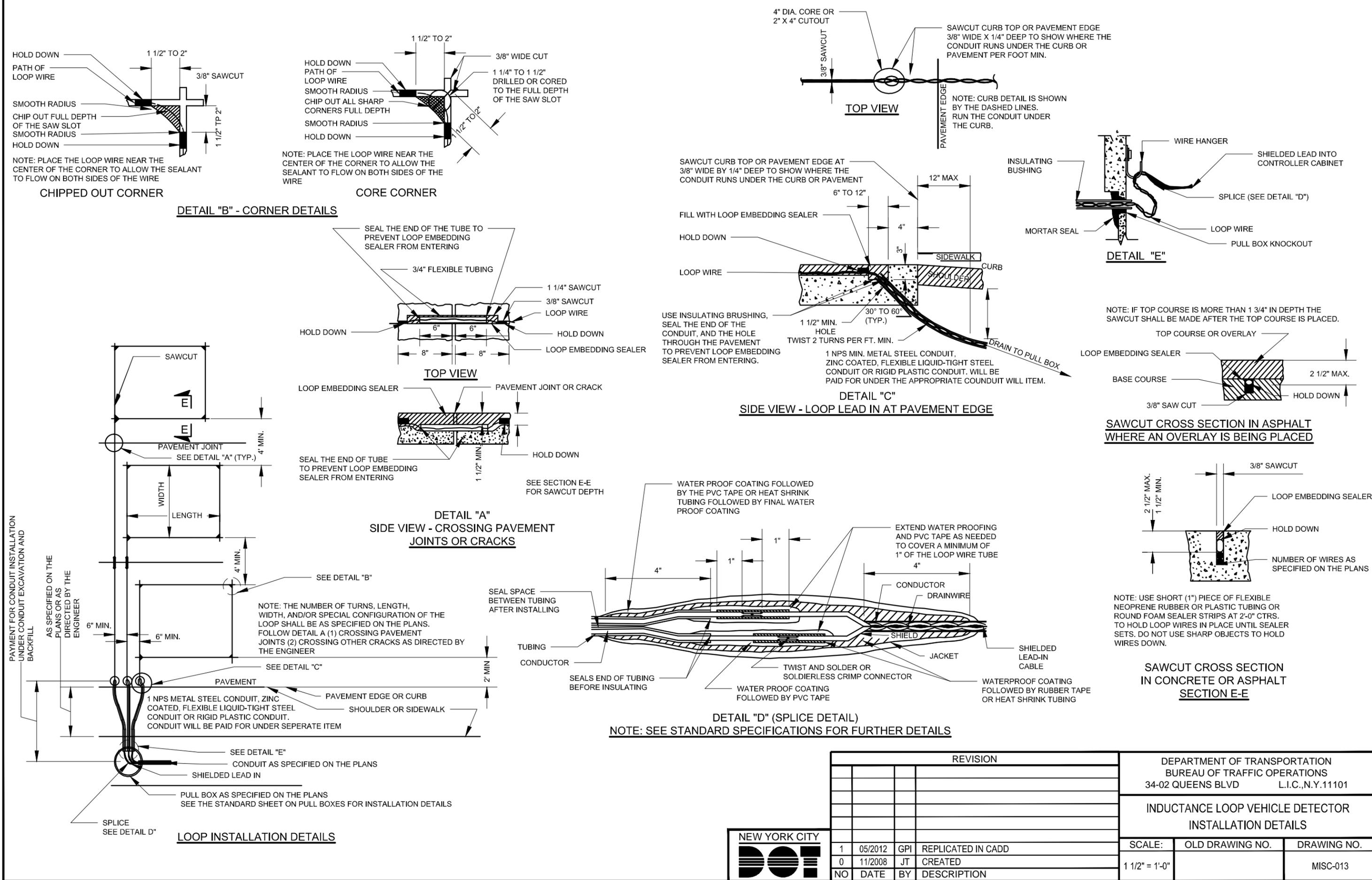
6"x6"x3/8" FLANGE PLATE



REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2012	GPI	REPLICATED IN CADD
0	05/2005	JH	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
6" SQ. FLANGE PLATE		
SCALE:	OLD DRAWING NO.	DRAWING NO.
1'-0" = 1'-0"	LB-504S	MISC-012

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013

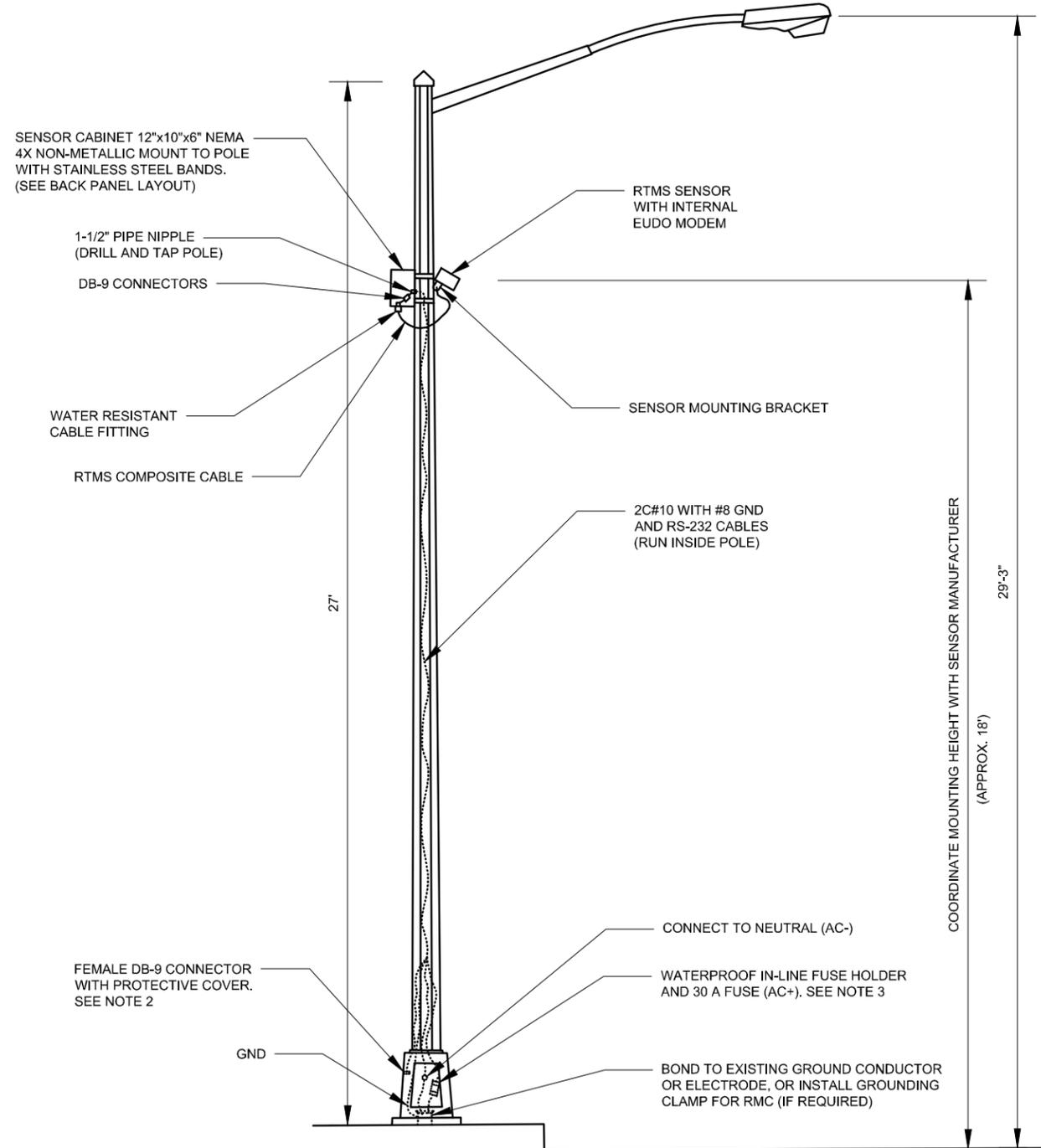


REVISION			
NO	DATE	BY	DESCRIPTION
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0	11/2008	JT	CREATED

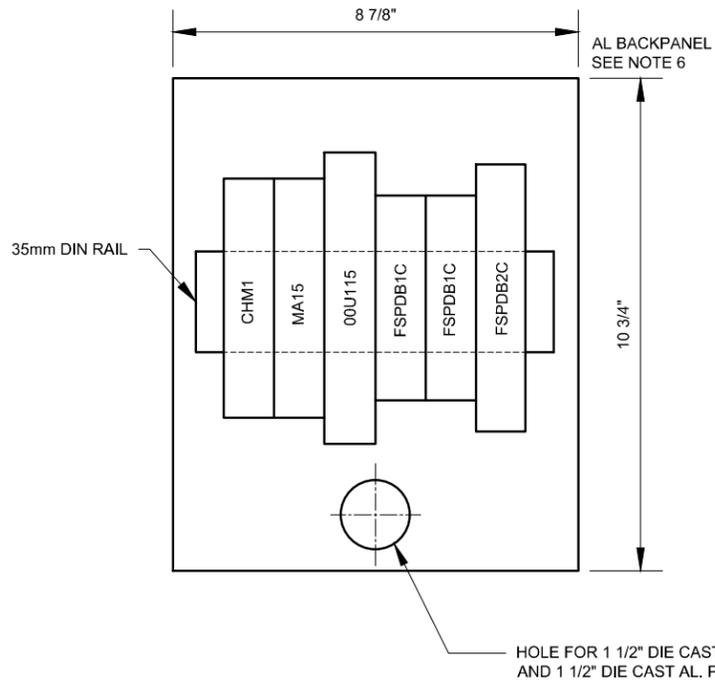
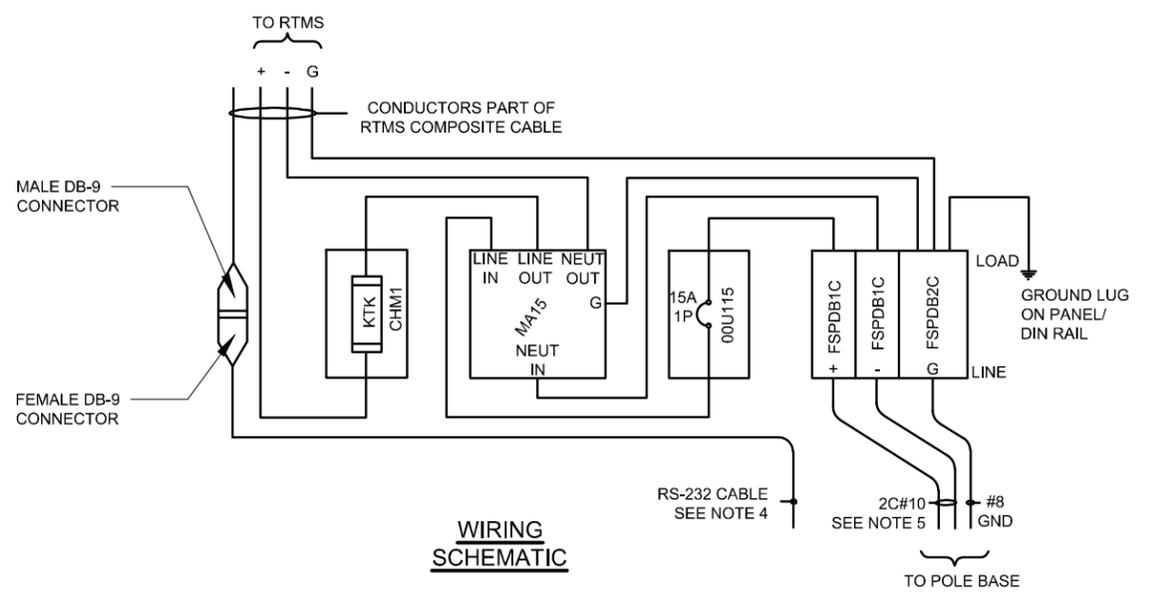
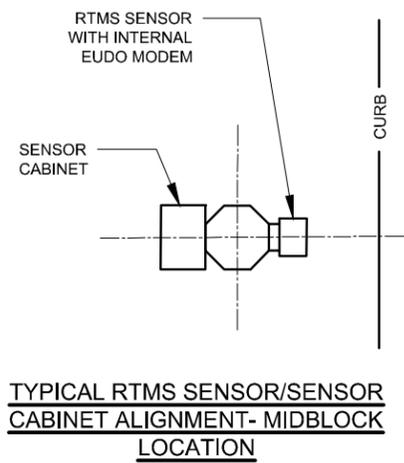
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
INDUCTANCE LOOP VEHICLE DETECTOR INSTALLATION DETAILS		
SCALE: 1 1/2" = 1'-0"	OLD DRAWING NO.	DRAWING NO. MISC-013



NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



TYPICAL RTMS AND CABINET INSTALLATION SHOWN ON STREETLIGHT WITH OCTAGONAL FABRICATED STEEL POLE AND LUMINAIRE



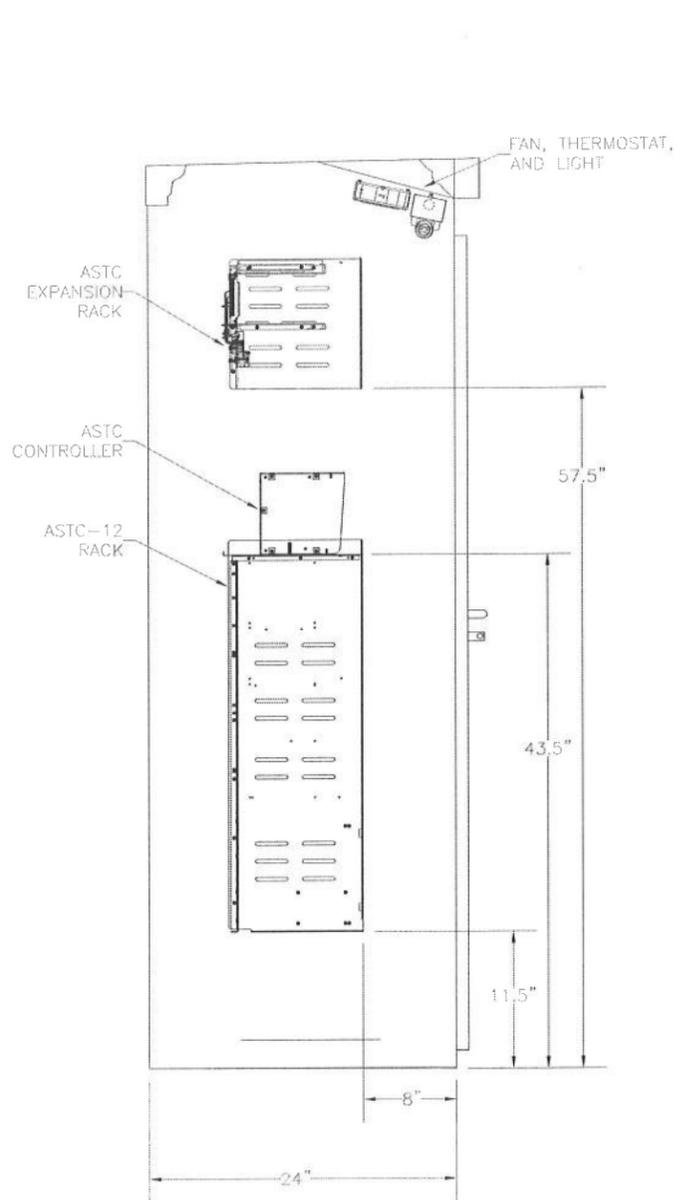
NOTES:

1. ACTUAL FIELD CONDITIONS WILL VARY.
2. PROVIDE SLACK COIL TO ALLOW RS-232 CONNECTOR TO BE CONNECTED TO LAPTOP COMPUTER BY MAINTENANCE STAFF.
3. REQUIRE 24 HR 120 VAC SERVICE AT BASE OF POLE. TO BE PROVIDED BY NYCDOT (UNMETERED)
4. AT THE POLE BASE, THE RS-232 CABLE SHALL BE TERMINATED WITH A FEMALE DB-9 CONNECTOR WITH PROTECTIVE COVER.
5. CABLE IN ACCORDANCE WITH NYCDOT SPECIFICATION FOR 120V POWER SUPPLY CABLE.
6. MOUNTED WITHIN 12"x10"x6" DP NORMAL SIZE NEMA 4x NON-METALLIC ENCLOSURE.

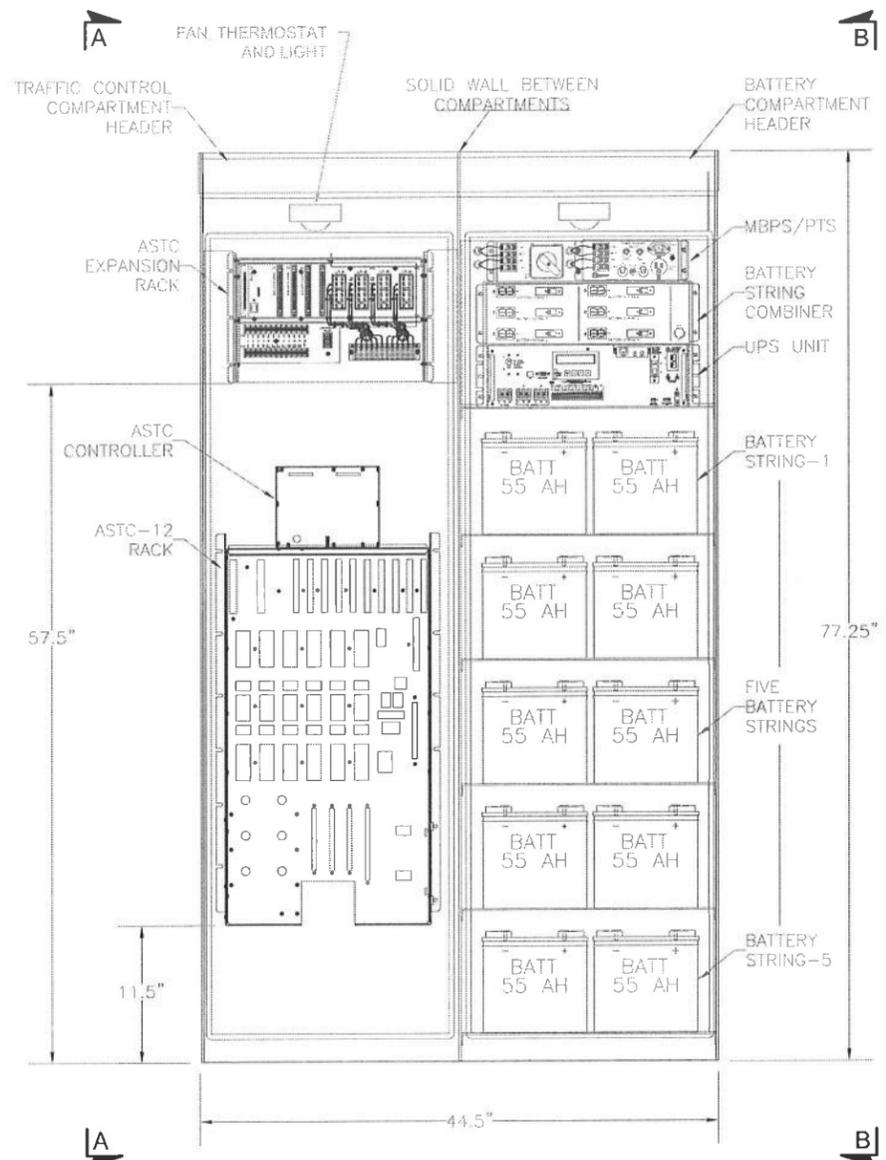


REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2012	GPI	REPLICATED IN CADD
0	09/2008	XX	CREATED

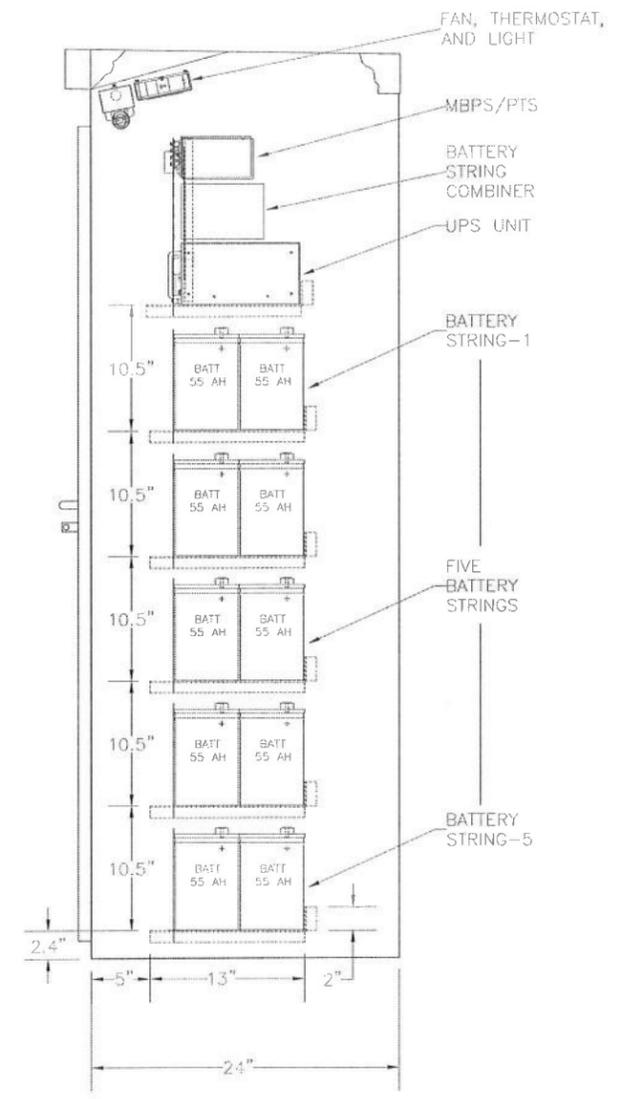
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
REMOTE TRAFFIC MICROWAVE SENSOR (RTMS) INSTALLATION DETAILS		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.	D-1 D-2	MISC-014



VIEW "A-A"



FRONT VIEW



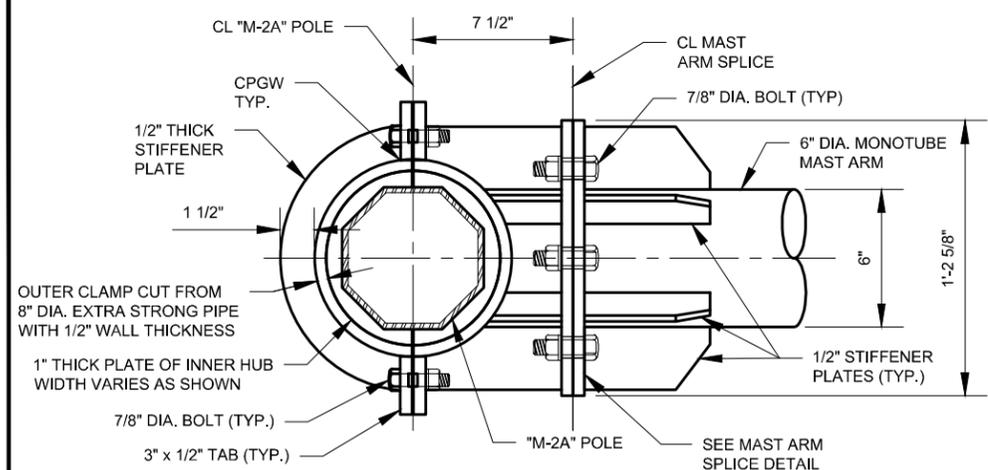
VIEW "B-B"



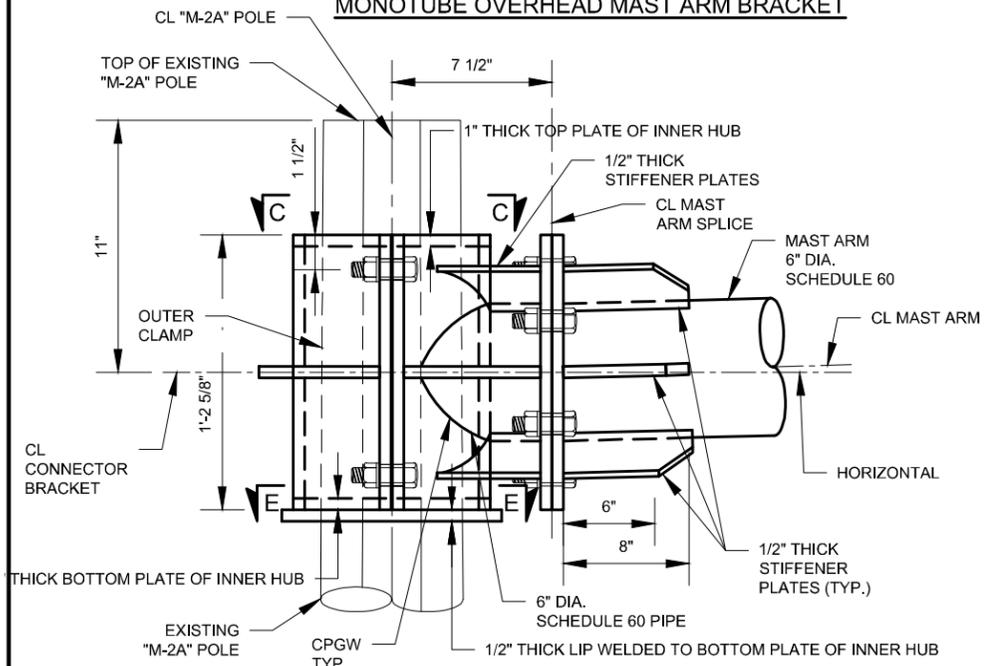
REVISION			
NO	DATE	BY	DESCRIPTION
0	09/2008	GPI	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C.,N.Y.11101		
NEMA "R" GROUND MOUNT CONTROLLER CABINET EQUIPMENT ARRANGEMENT		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.		MISC-015

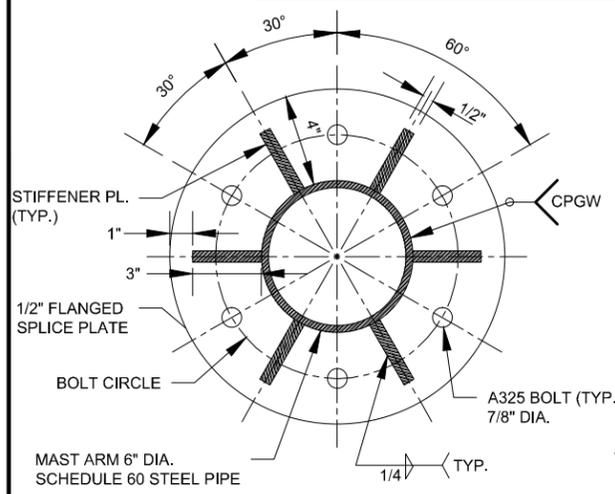
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



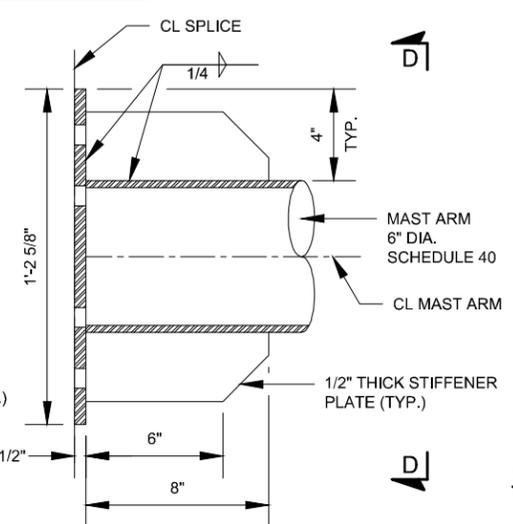
SECTION "B-B"
MONOTUBE OVERHEAD MAST ARM BRACKET



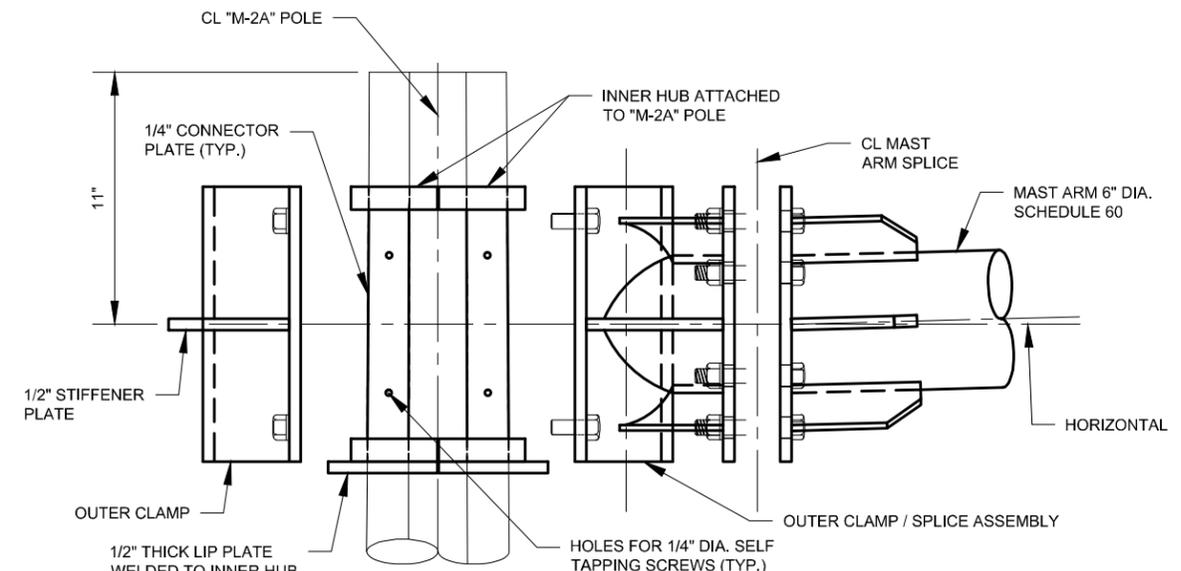
ELEVATION VIEW
MONOTUBE OVERHEAD MAST ARM BRACKET



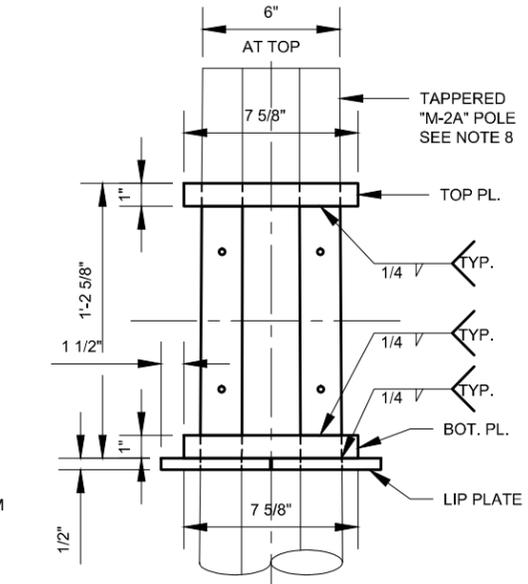
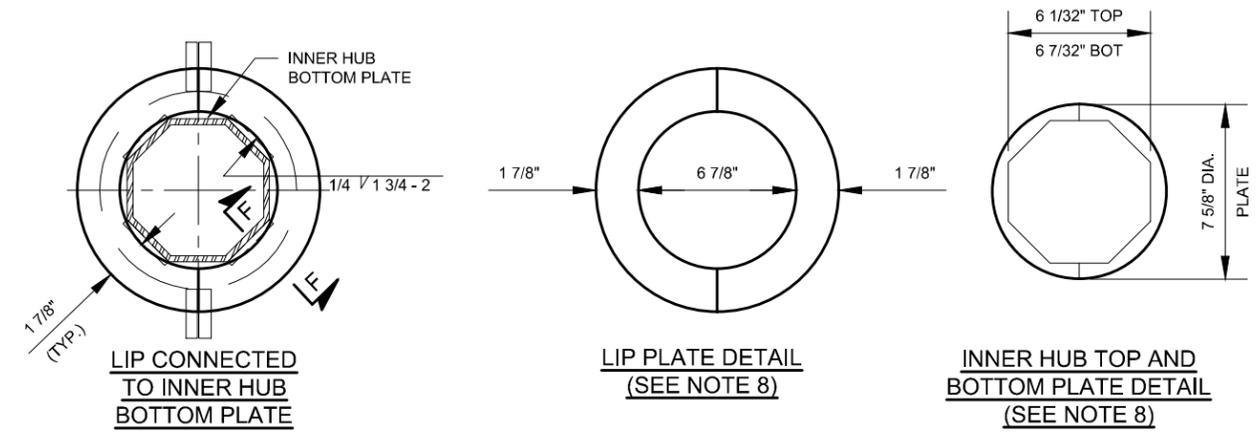
SECTION "D-D"
MAST ARM SPLICE
(ASTM A709)



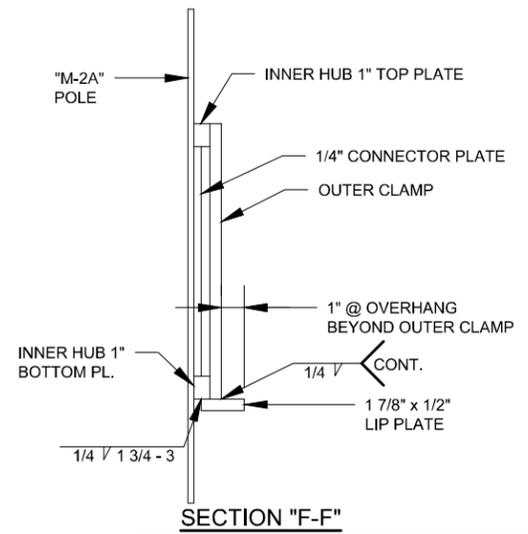
MAST ARM SPLICE DETAIL
(ASTM A709)



EXPLODED VIEW OF ASSEMBLY

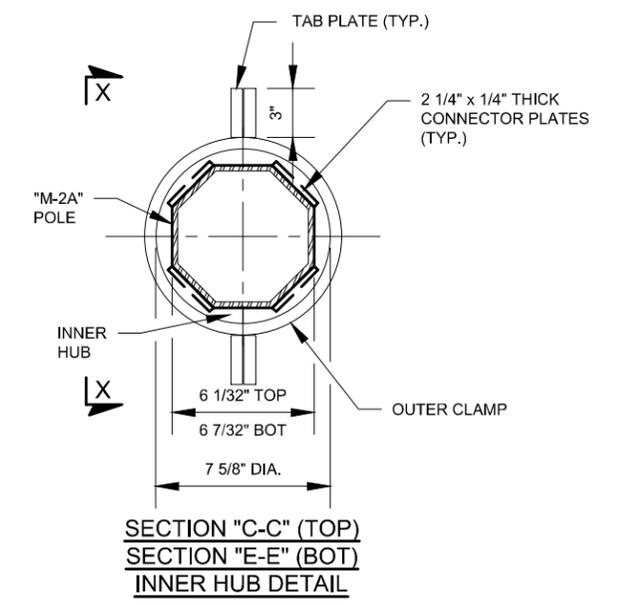


INNER HUB DETAIL
SECTION "X-X" (HALF CONNECTOR)
(OUTER CLAMP NOT SHOWN FOR CLARITY)



SECTION "F-F"

- ASSEMBLY PROCEDURE:**
1. INSTALL INNER HUB TO EXISTING "M-2A" POLE. CL OF HUB SHALL BE AT LOCATION INDICATED ON PLANS.
 2. FASTEN INNER HUB TO "M-2A" POLE USING SELF TAPPING SCREWS THROUGH HOLES IN PLATES PROVIDED.
 3. INSTALL OUTER CLAMP AROUND INNER HUB. FASTEN BY TIGHTENING FOUR BOLTS.
 4. INSTALL MAST ARM AT SPLICE CONNECTION.
 5. INSTALL SIGN MOUNTING BAR. LENGTH DETERMINED BY NYCDOT SIGN GROUP.
 6. INSTALL SIGNS USING APPROPRIATE NUMBER OF FASTENERS AS SPECIFIED IN TABLE.
 7. MAST ARM BRACKET SHALL BE FABRICATED TO ACCOMMODATE A 6" RISE OVER 20 FEET OF MAST ARM LENGTH.
 8. ALL DIMENSIONS ARE BASED ON THE ARM BRACKET INSTALLED AT THE LOCATION ON THE NYCDOT STANDARD "M-2A" POLE AS SHOWN ON DWG. MISC-016_1. CONTRACTOR SHALL VERIFY THE DIMENSIONS PRIOR TO FABRICATION.

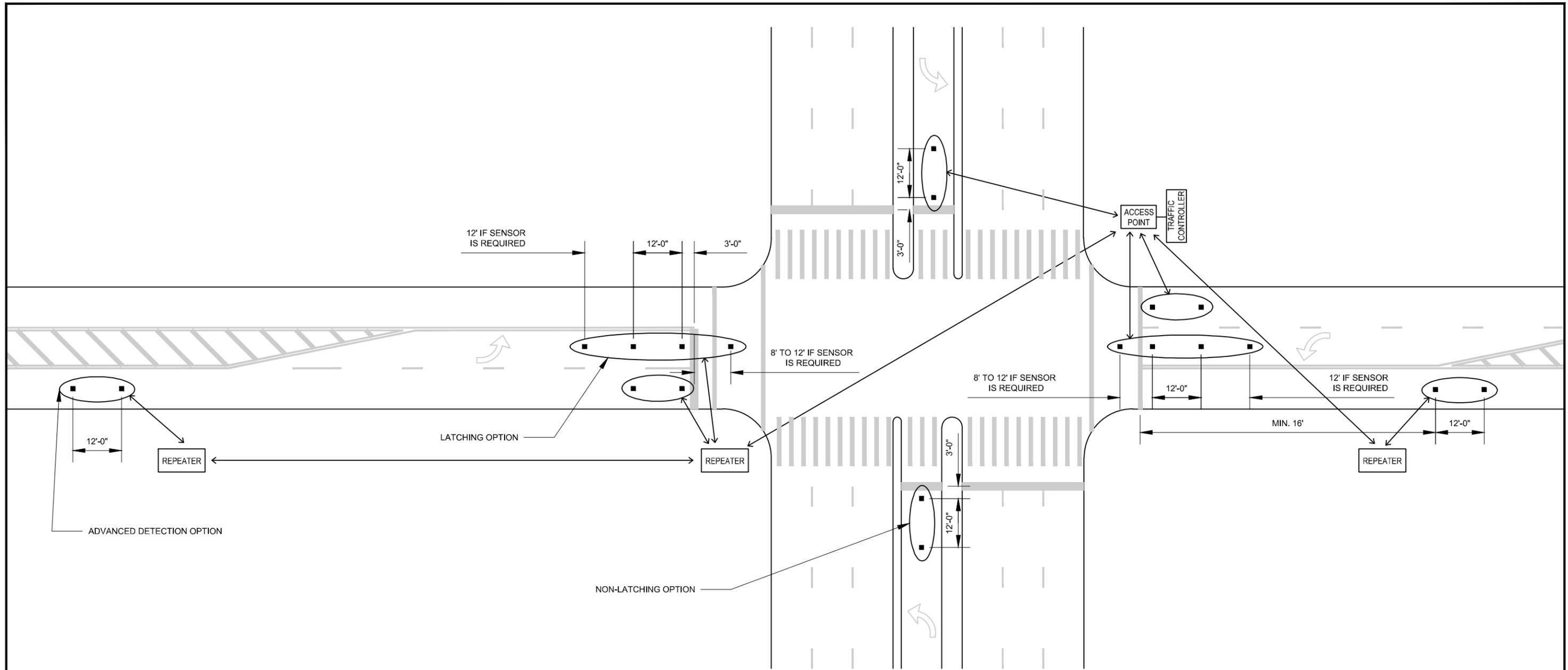


SECTION "C-C" (TOP)
SECTION "E-E" (BOT)
INNER HUB DETAIL

REVISION			
0	09/2008	GPI	CREATED
NO	DATE	BY	DESCRIPTION

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
MONOTUBE OVERHEAD SIGN MAST ARM		
SCALE:	OLD DRAWING NO.	DRAWING NO.
1 1/2" = 1'-0"		MISC-016_2





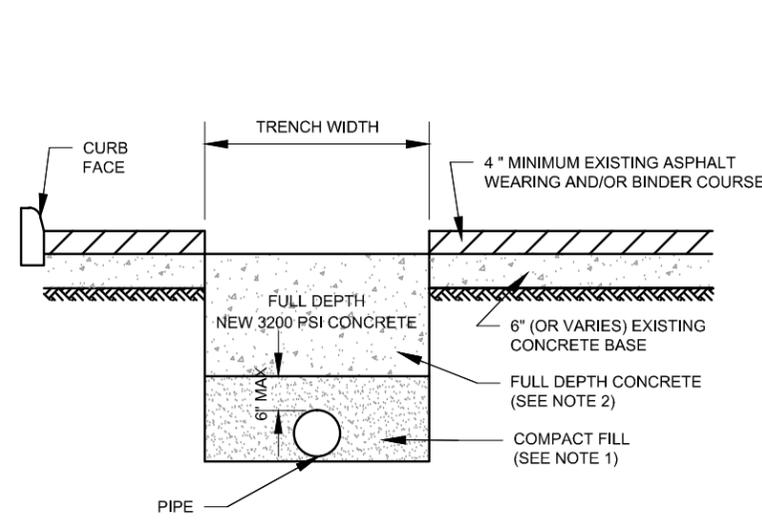
NOTES:

1. ACCESS POINTS AND REPEATERS SHOULD BE MOUNTED NO HIGHER THAN 20 FEET OFF THE GROUND.
2. ACCESS POINTS AND REPEATERS SHOULD BE WITHIN 150 FEET OF WIRELESS SENSORS.
3. WHEN ACCES POINTS AND REPEATERS ARE USED IN FACE-TO-FACE CONFIGURATION, DISTANCES AMONG THEM SHOULD NOT BE OVER 1,000 FEET.
4. WHEN ACCESS POINTS AND REPEATERS ARE USED IN BACK-TO-BACK CONFIGURATION, DISTANCES AMONG THEM SHOULD NOT BE OVER 400 FEET.
5. CABLE CONNECTION BETWEEN TRAFFIC SIGNAL CONTROLLER AND ACCESS POINT SHOULD NOT BE LONGER THAN 300 FEET.

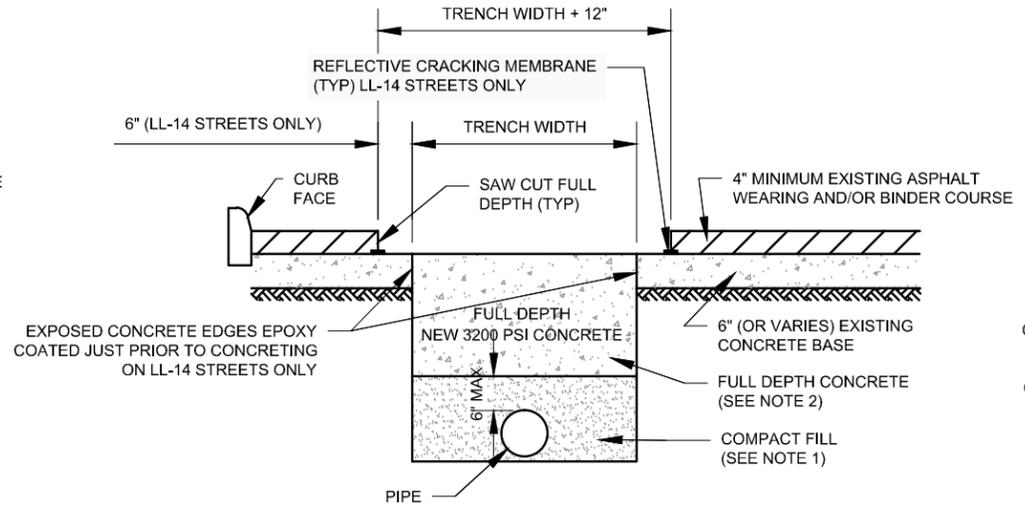


REVISION				DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
1	05/2013	GPI	REPLICATED IN CADD	WIRELESS SENSOR EQUIPMENT LAYOUT		
0	05/2013	DR	CREATED			
NO	DATE	BY	DESCRIPTION	SCALE:	OLD DRAWING NO.	DRAWING NO.
				N.T.S.		MISC-017

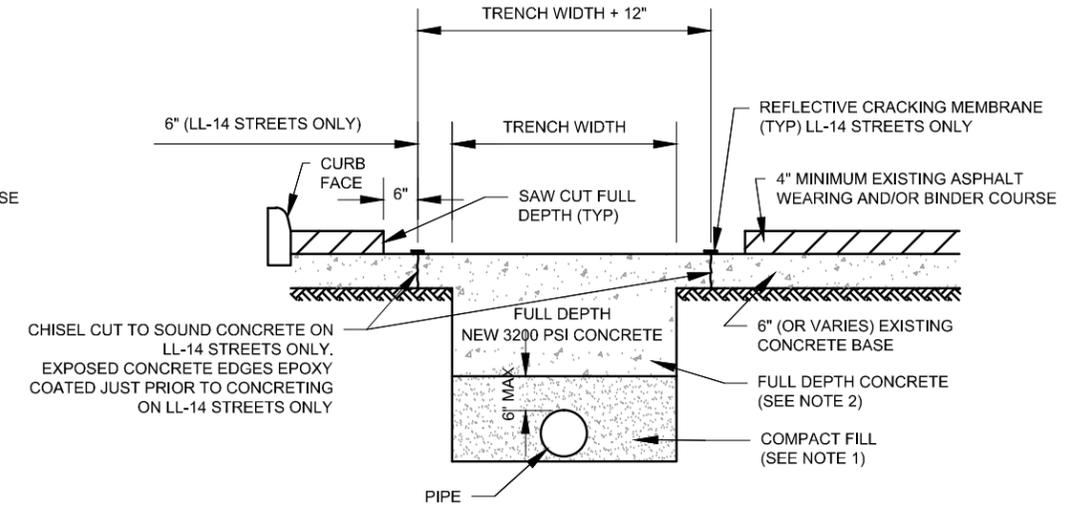
NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



**METHOD OF BACKFILL FOR
NON-PROTECTED STREETS
(FORMER DWG LB11323S)**



**METHOD OF BACKFILL FOR VERMEER WHEEL CUT
FOR LL-14 & GUARANTEED STREETS
(FORMER DWG LB-11396S)**



**METHOD OF BACKFILL FOR CHESEL CUT
FOR LL-14 & GUARANTEED STREETS
(FORMER DWG LB-11322S)**

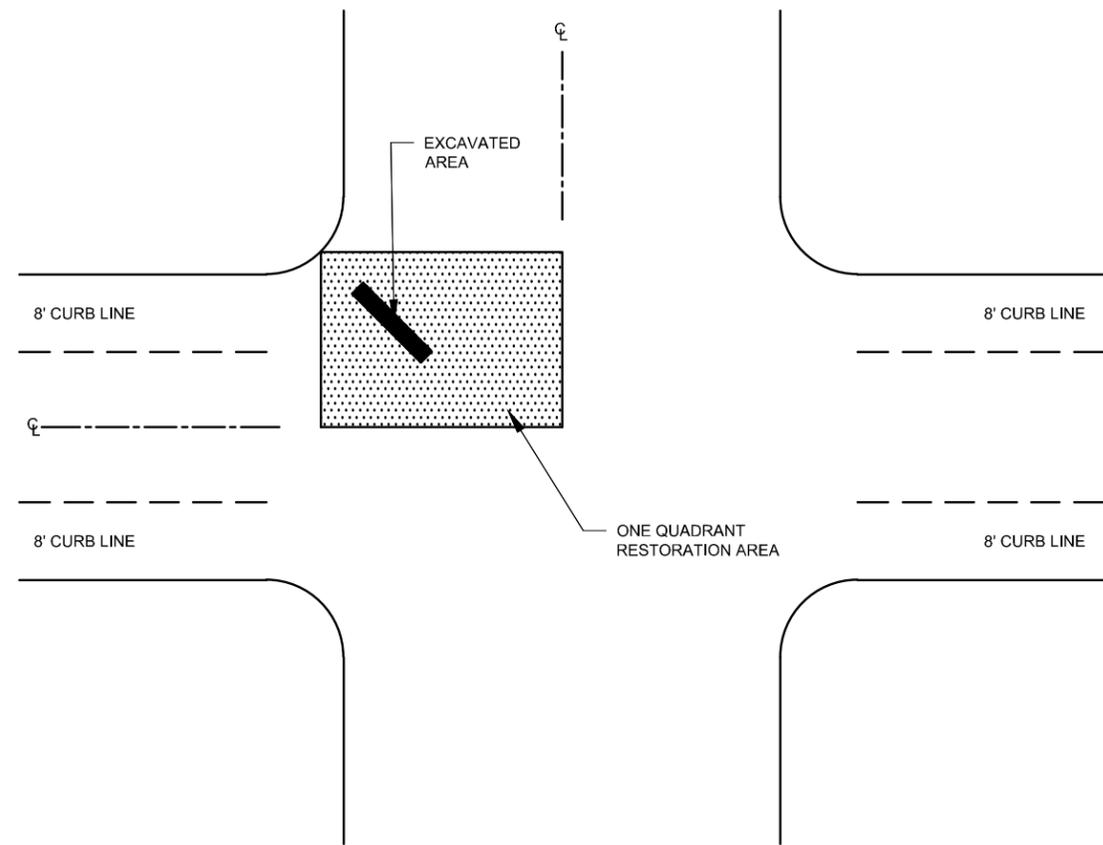
NOTES:

1. COMPACTED CLEAN GRANULAR (SAND) FILL TO BE A MAXIMUM OF 6" ABOVE TOP OF PIPE.
2. FULL DEPTH "ZERO SLUMP" OR VERY DRY CONCRETE TO BE 3200 PSI TEST CONCRETE TO BE INSTALLED TO A HEIGHT OF MINIMUM OF 4" BELOW THE TOP OF EXISTING ASPHALT BASE.
3. CONCRETE TO BE MIXED ON SITE BY AN APPROVED PORTABLE MIXER OR AS APPROVED BY THE ENGINEER.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST SUBMIT HIS MIX OF MATERIALS IN EASILY AND IDENTIFIABLE VOLUMETRIC OR WEIGHT MEASURES AND AN ACCEPTABLE CERTIFICATION CONFIRMING THIS MIX IS 3200 PSI TEST CONCRETE.
5. A LAYOUT OF BOTH, THE VERMEER WHEEL CUT AND 6" CUTBACK WILL BE MADE IN THE STREET UTILIZING STRAIGHT EDGES OR STRING CHUCK LINES IN GENERAL PARALLEL TO THE CENTER LINE OR CURB LINE OF THE STREET. ANY BENDS MUST BE SQUARED OFF ON THE OUTSIDE OF THE BEND AND CUT STRAIGHT ON THE INSIDE, SO AS CREATE A TRIANGLE OR SQUARE RESTORATION.

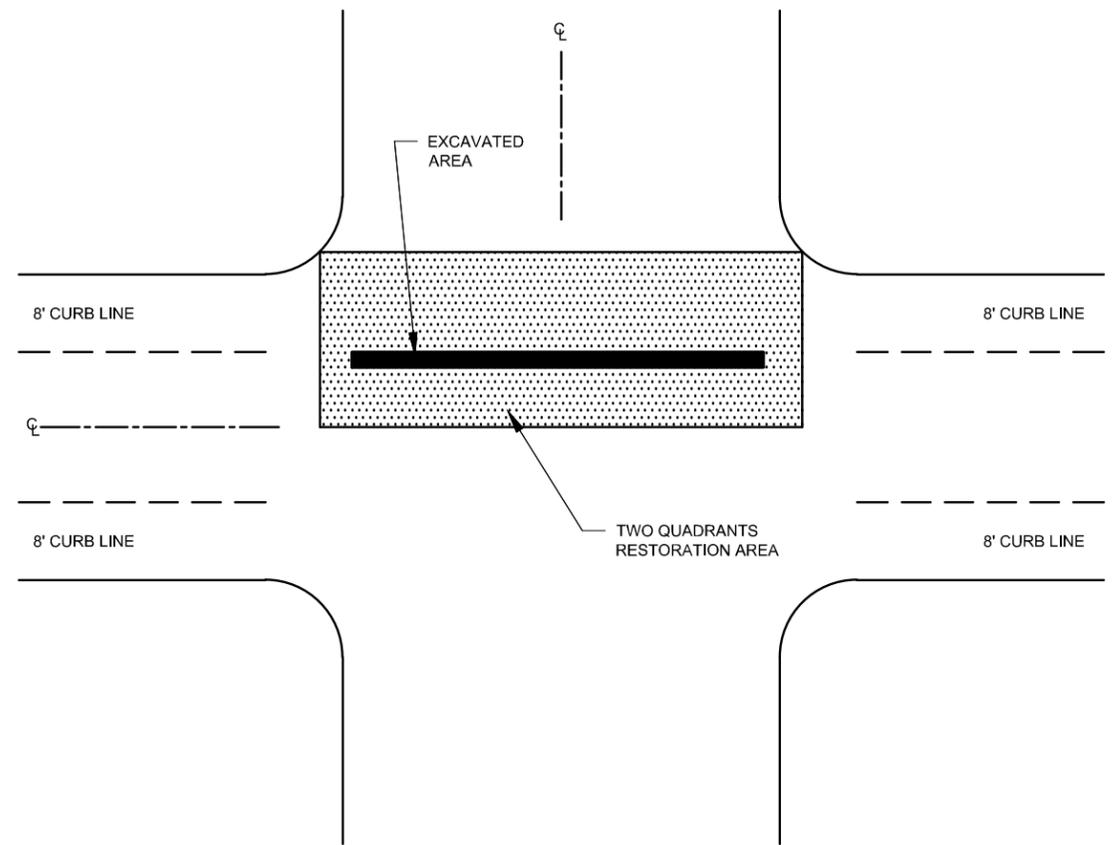


REVISION			
NO	DATE	BY	DESCRIPTION
1	07/2013	DR	REPLICATED IN CADD
0	03/1990	GL	LB-11322S CREATED
0	07/1991	GL	LB-11396S CREATED
0	03/1990	GL	LB-11323S CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
BACKFILLING		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.	LB-11323S LB-11396S, LS11322S	MISC-018



ONE QUADRANT



TWO QUADRANTS

NOTES:

1. NORMAL LOCAL LAW 14 (LL-14) CUTBACKS ON THE BASE.
2. FULL CORNER QUADRANT RESTORATION FOR ALL QUADRANTS THAT WERE EXCAVATED



REVISION			
NO	DATE	BY	DESCRIPTION
0	07/2013	DR	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
RESTORATION AREAS OUTSIDE PROLONGATED 8' CURB LANE		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.		MISC-019



TRAFFIC SIGNAL ON "M-2A" POLE



TRAFFIC SIGNAL ON "M-2A" COMBO POLE
WITH 15-1/2" SHAFT EXTENSION



TRAFFIC SIGNAL ON "M-2A" COMBO POLE
WITH 180° TWIN ARM TYPE 7" SHAFT EXTENSION



DOUBLE ARM TRAFFIC SIGNALS ON "M-2A" POLE

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2013	GPI	REPLICATED IN CADD
0	05/2013	DR	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
SIGNALS ON "M-2A" POLES		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.		AI-001



DECORATIVE "M-2A" POLE DETAILS



NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2013	GPI	REPLICATED IN CADD
0	05/2013	DR	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
DECORATIVE "M-2A" POLE		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.		AI-002



TIE ROD ELBOW
"J2A"

CONCENTRIC LINK "K2A"

SIGNAL WEATHERHEAD
"L2A"

SIGNAL SUSPENSION ASSEMBLY



"TWO-WAY" SPIDER ASSEMBLY



"THREE-WAY" SPIDER ASSEMBLY



"FOUR-WAY" SPIDER ASSEMBLY



SIGNAL WEATHERHEAD "L2A"



CONCENTRIC LINK "K2A"



TIE ROD ELBOW "J2A"



"TWO-WAY" SIGNAL HEAD TIE



"THREE-WAY" SIGNAL HEAD TIE



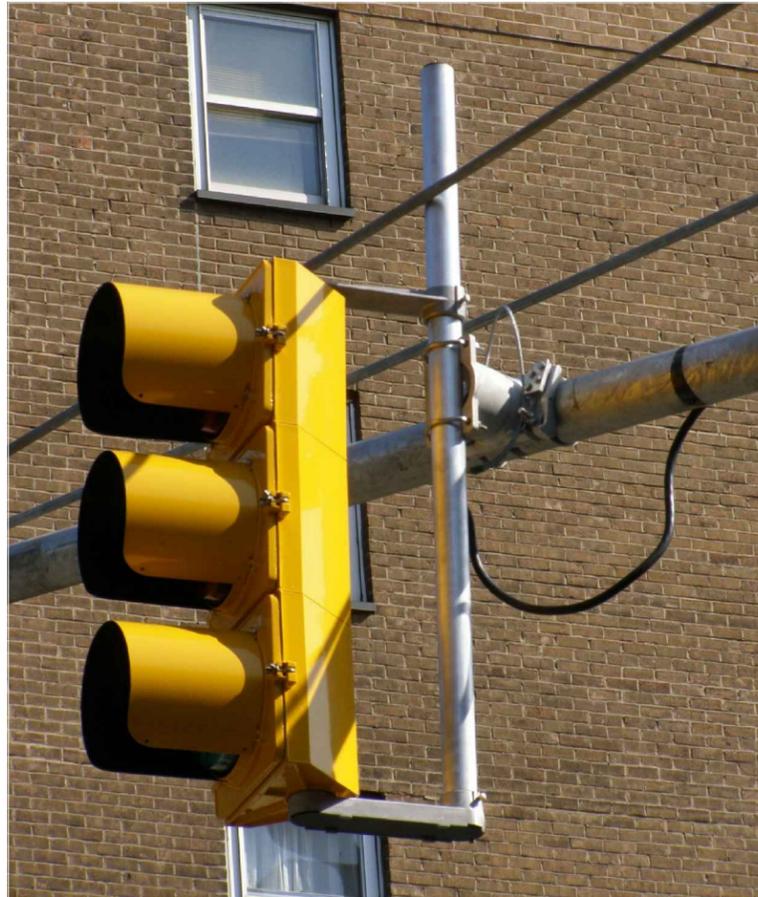
"FOUR-WAY" SIGNAL HEAD TIE

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2013	GPI	REPLICATED IN CADD
0	05/2013	DR	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
ARTICULATED MAST ARM SIGNAL INSTALLATION (SPIDER ASSEMBLIES)		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.		AI-003



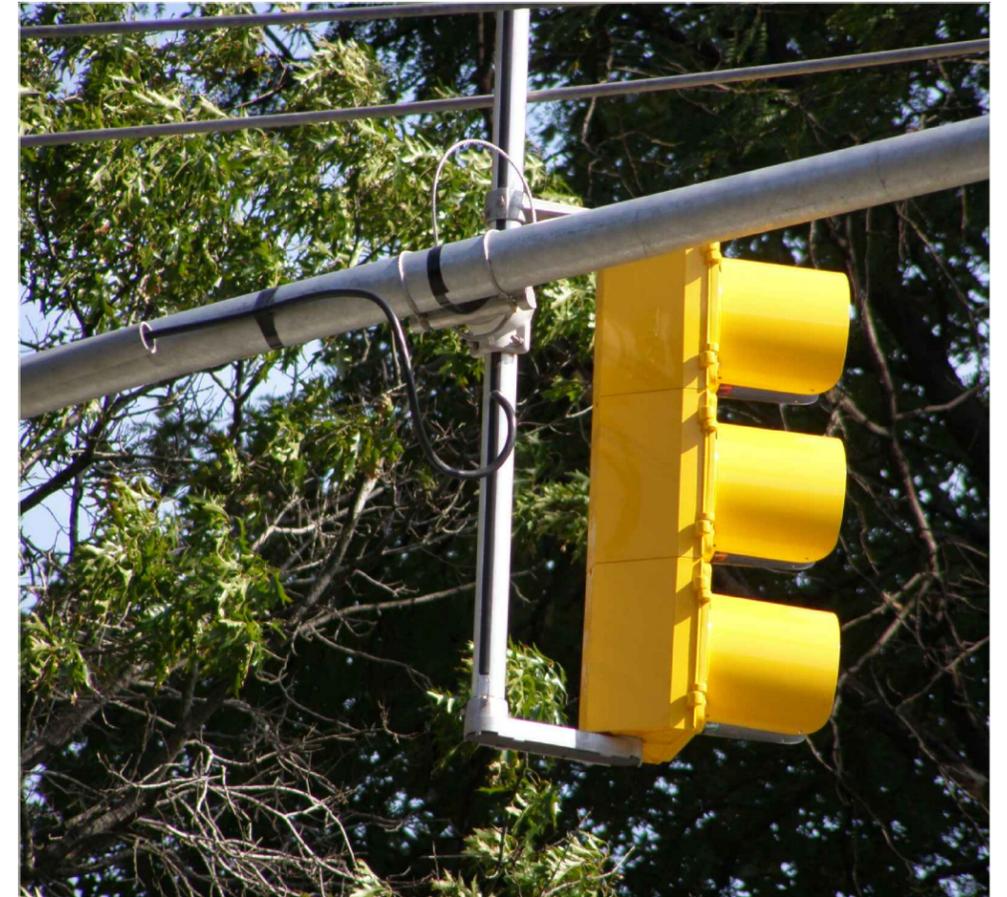
RIDGID MAST ARM TRAFFIC SIGNAL INSTALLATION
FRONT VIEW



RIDGID MAST ARM "ONE-WAY" ASSEMBLY



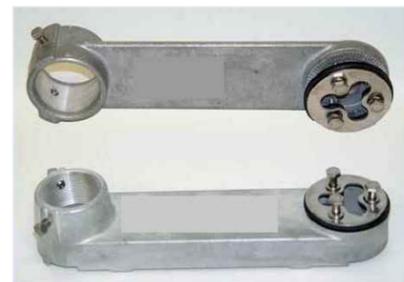
RIDGID MAST ARM "TWO-WAY" ASSEMBLY



RIDGID MAST ARM TRAFFIC SIGNAL INSTALLATION
BACK VIEW



MAST ARM CLAMP
FRONT VIEW



MOUNTING ARMS FOR TRAFFIC SIGNALS



MAST ARM CLAMP
BACK VIEW

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



REVISION			
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1	05/2013	GPI	REPLICATED IN CADD
0	05/2013	DR	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
RIGID MAST ARM SIGNAL INSTALLATION		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.		AI-004



TRAFFIC AND PEDESTRIAN SIGNALS ON "S-14A" POLE



TRAFFIC SIGNAL ON "S-1a" POLE



SLIPFITTER POLE SIGNAL MOUNTING ASSEMBLY "3SPA"



SLIPFITTER "1SA"



SLIPFITTER "4SPA"



SERRATED TEE



CHASE NIPPLE



CLOSURE CAPS

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013

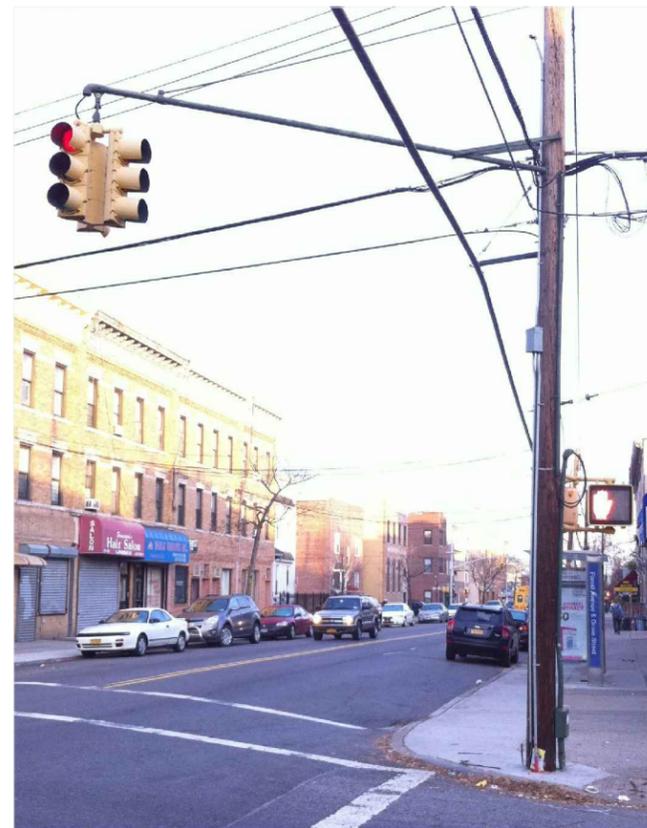


REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2013	GPI	REPLICATED IN CADD
0	05/2013	DR	CREATED

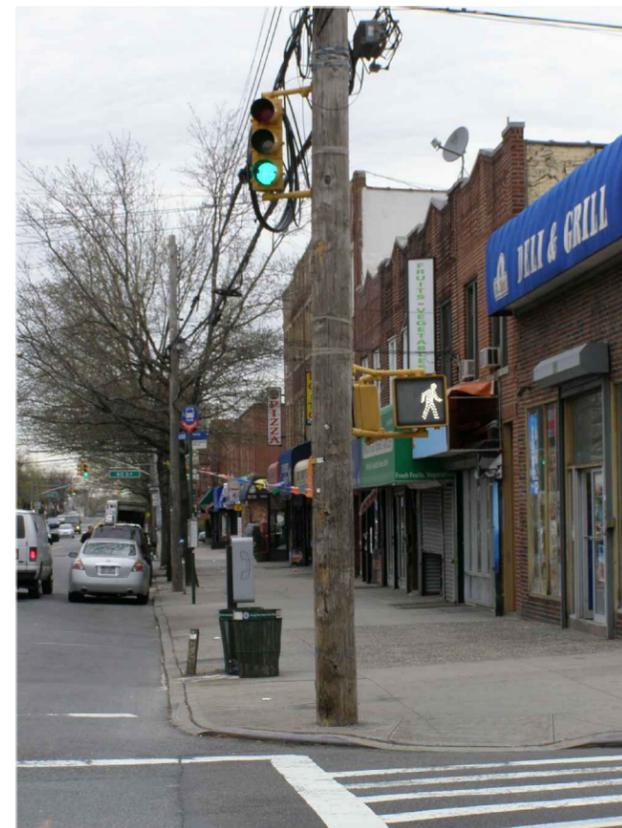
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
SIGNALS ON "S-1a" POLES		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.		AI-005



"MAW-15" SIGNAL SUSPENSION ASSEMBLY



"MAW-15" ASSEMBLY



"WP" ASSEMBLY



WOOD POLE BRACKET "WP"



SIGNAL WEATHERHEAD "L2A"



CONCENTRIC LINK "K2A"



MAST ARM TRAFFIC SIGNAL HEAD "R2"

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



REVISION				DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
1	05/2013	GPI	REPLICATED IN CADD	SIGNALS ON WOOD POLES		
0	05/2013	DR	CREATED			
NO	DATE	BY	DESCRIPTION	SCALE:	OLD DRAWING NO.	DRAWING NO.
				N.T.S.		AI-006



WOOD POLE BRACKETS "WP"



"WB-P" ASSEMBLY



"WB-2P" ASSEMBLY

PEDESTRIAN SIGNALS ON WOOD POLE



"VB-P" ASSEMBLY



"VB-2P" ASSEMBLY

PEDESTRIAN SIGNALS ON METAL POLE



PEDESTRIAN COUNTDOWN SIGNAL



LAWTON HUB



SERRATED TEE



CLOSURE CAP



PEDESTRIAN SIGNAL MOUNTING ASSEMBLY "VB-P"



120° "Y" FITTING



PEDESTRIAN SIGNAL MOUNTING ASSEMBLY "VB-2P"



NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2013	GPI	REPLICATED IN CADD
0	05/2013	DR	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
PEDESTRIAN SIGNALS		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.		AI-007



APS ON TYPICAL METAL POLE



APS ON TYPICAL WOOD POLE



APS ON TYPICAL "APS POLE"



APS ON CONTROLLER CABINER

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2013	GPI	REPLICATED IN CADD
0	05/2013	DR	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
ACCESSIBLE PEDESTRIAN SIGNALS		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.		AI-008



OVERHEAD SIGN ON "GCP" POLE



OVERHEAD SIGN ON "M-2A" COMBO POLE



REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2013	GPI	REPLICATED IN CADD
0	05/2013	DR	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
OVERHEAD SIGN INSTALLATION EQUIPMENT		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.		AI-009



REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2013	GPI	REPLICATED IN CADD
0	05/2013	DR	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
SPEED SIGN UNIT		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.		AI-010



1. SENSOR AND SHELL ASSEMBLY



2. ADJUSTING SENSOR INSTALLATION HIGHT



3. CLEANING SENSOR HOLE



4. INITIAL EPOXY APPLICATION



5. PLACING THE SENSOR



6. FILLING SENSOR HOLE WITH EPOXY

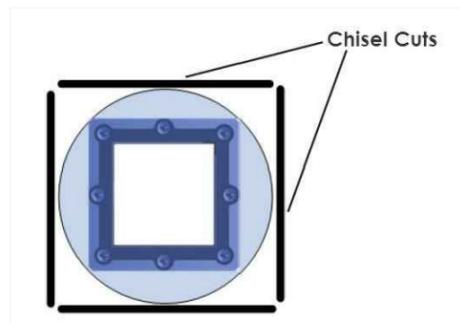


7. FILLING SENSOR HOLE WITH EPOXY UNTIL LEVELED WITH ROAD SURFACE



8. INSTALLED SENSOR

WIRELESS SENSOR INSTALLATION PROCEDURE



1. ORIENTATION OF CHISEL CUTS TO SENSOR



2. CHISEL CUTS



3. PRYING UPWARD TO LOOSEN SENSOR SHELL TOP



4. REMOVING SENSOR SHELL TOP



5. REMOVING SENSOR



6. REMOVED SENSOR

WIRELESS SENSOR REMOVAL PROCEDURE

NYCDOT TRAFFIC SIGNAL STANDARD DRAWINGS, November 2013



REVISION			
NO	DATE	BY	DESCRIPTION
1	05/2013	GPI	REPLICATED IN CADD
0	05/2013	DR	CREATED

DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
WIRELESS SENSOR		
SCALE:	OLD DRAWING NO.	DRAWING NO.
N.T.S.		AI-011



LAWTON HUB



SERRATED TEE



CLOSURE CAP



FLASHING SIGNAL MOUNTING ASSEMBLY



REVISION				DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101		
1	05/2013	GPI	REPLICATED IN CADD	SCHOOL ZONE FLASHER INSTALLATION EQUIPMENT		
0	05/2013	DR	CREATED			
NO	DATE	BY	DESCRIPTION	SCALE:	OLD DRAWING NO.	DRAWING NO.
				N.T.S.		AI-012