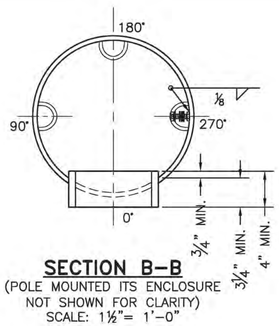
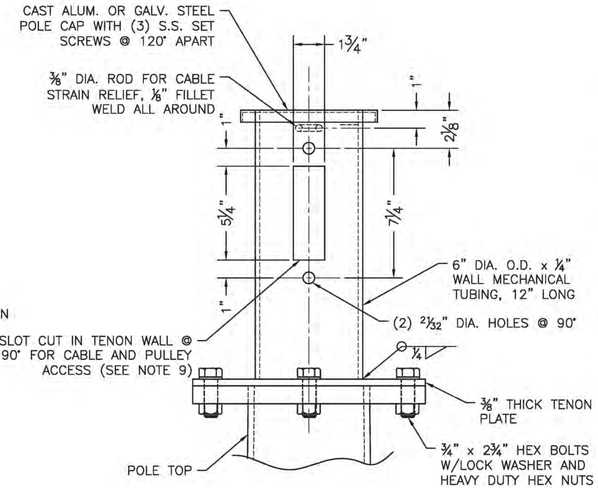


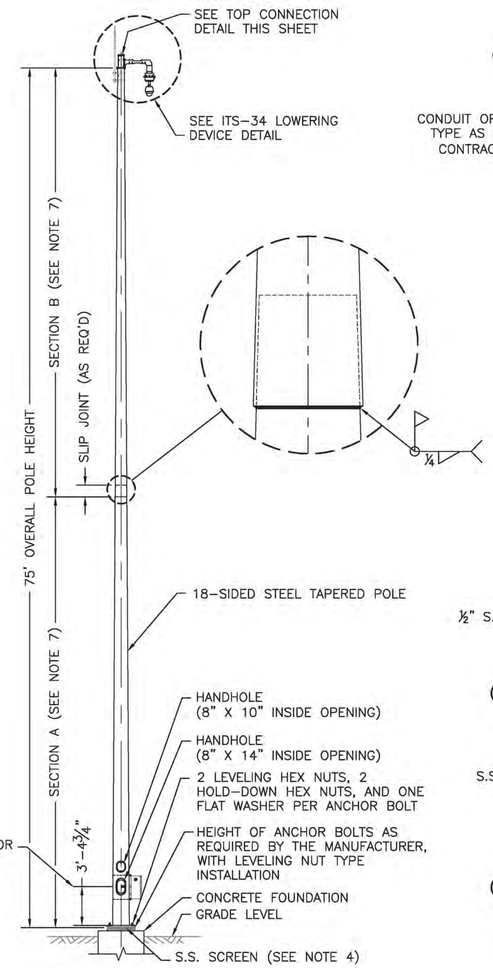
SECTION C–C
(POLE MOUNTED ITS ENCLOSURE NOT SHOWN FOR CLARITY)
SCALE: 1½"= 1'–0"



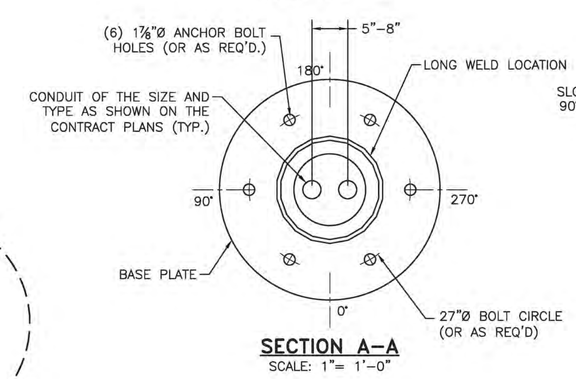
SECTION B–B
(POLE MOUNTED ITS ENCLOSURE NOT SHOWN FOR CLARITY)
SCALE: 1½"= 1'–0"



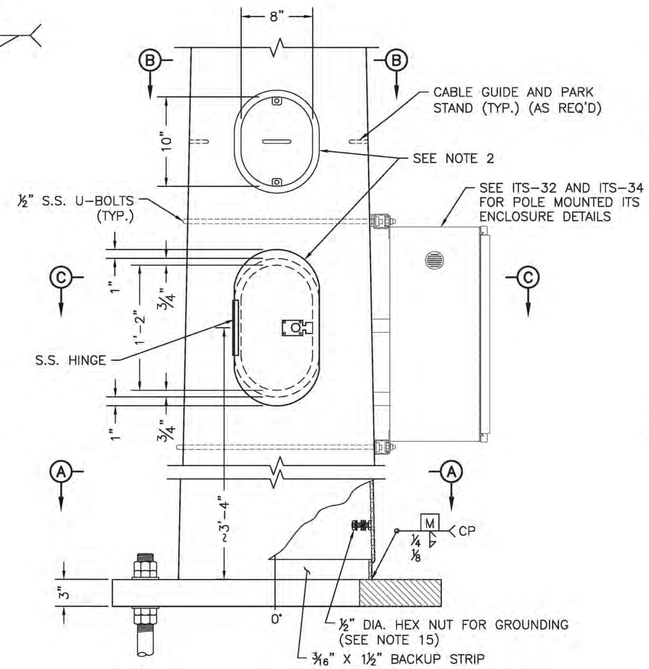
TOP CONNECTION DETAIL
SCALE: 3"= 1'–0"



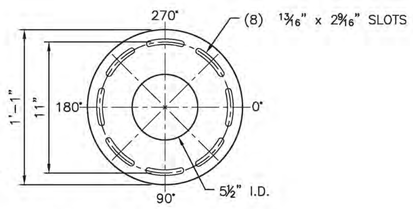
75' CAMERA POLE WITH LOWERING DEVICE
(N.T.S.)



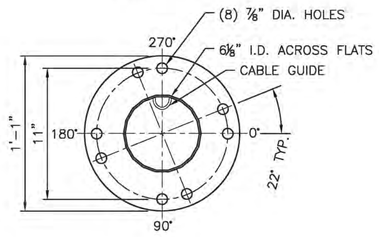
SECTION A–A
SCALE: 1"= 1'–0"



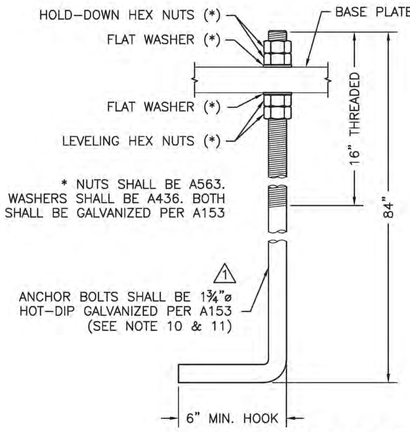
BASE PLATE AND HANDHOLE DETAILS
SCALE: 1"= 1'–0"



TENON PLATE DETAIL
SCALE: 2"= 1'–0"



TOP PLATE DETAIL
SCALE: 2"= 1'–0"



ANCHOR BOLT DETAIL
SCALE: 3" = 1'–0"

NOTES

1. ALL 75' CAMERA POLES SHALL BE DESIGNED AND FABRICATED TO ADEQUATELY SUPPORT THE WEIGHT OF THE CCTV CAMERA, MAST ARM WITH LOWERING ASSEMBLY, AND TENON. THE POLE SHALL HAVE THE CAPABILITY TO WITHSTAND 110 MPH WIND VELOCITY WITH A 1.3 GUST FACTOR GIVEN THE AFOREMENTIONED EQUIPMENTS' WEIGHT AND EFFECTIVE PROJECTED AREA. THE MANUFACTURER SHALL FURNISH CERTIFICATION THAT HIGHMAST POLES ARE TO BE MANUFACTURED IN ACCORDANCE WITH CURRENT AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS. ENSURE MAXIMUM HORIZONTAL DEFLECTION AT THE TOP OF THE POLE COMPLETELY ASSEMBLED WITH CCTV CAMERA AND ALL FIXTURES ATTACHED DOES NOT EXCEED 2" FROM THE CENTERLINE DUE TO A 40 MPH WIND WITH A 1.3 GUST FACTOR (PER AASHTO APPENDIX C WIND PRESSURE FORMULA).
2. 8" X 14" HANDHOLE SHALL BE PROVIDED WITH A LOCK AND S.S. HINGE. LOCK SHALL BE SUB–TREASURY LOCK NO.03575 AND KEYED ALIKE FOR KEY NO.5, AVAILABLE FROM THE AMERICAN HARDWARE CO. OF YALE PADLOCK MODEL 8403 WITH ALL BRASS CONSTRUCTION, INCLUDING THE SHANKS AND KEYED TO NO. "GB1510", AVAILABLE FROM CORBIN LOCK CO. OF NEW BRITAIN, CT. 8" X 10" HANDHOLE SHALL BE PROVIDED WITH A SCREW COVER. EACH HANDHOLE SHALL BE PROVIDED WITH A NEOPRENE DOOR GASKET.
3. DETAILS ARE SCHEMATIC. MODIFICATIONS ARE PERMITTED. ALL POLE MOUNTED CCTV EQUIPMENT SHALL BE APPROVED BY THE ENGINEER THROUGH THE SHOP DRAWING PROCESS PRIOR TO ORDERING, FABRICATION, OR ACCEPTANCE OF ANY INSTALLATION. PROVIDE DESIGN CALCULATIONS WITH ALL SHOP DRAWINGS.
4. A STAINLESS STEEL SCREEN, DOUBLE–WRAPPED AROUND THE BASE OF THE POLE IS REQUIRED. THE STAINLESS SCREEN SHALL HAVE NO MORE THAN ½" OPENINGS, AND SHALL BE HELD TOGETHER WITH STAINLESS STEEL NUTS, BOLTS, AND FLAT WASHERS. GROUTING UNDER THE POLE IS NOT PERMITTED.
5. ALL WELDING SHALL BE DONE WITH E–80T–1 WIRE.
6. POLE SHALL BE FABRICATED FROM HIGH–STRENGTH, LOW–ALLOY STEEL CONFORMING TO ASTM A572, GRADE 65. THE POLE FINISH SHALL BE HOT–DIP GALVANIZED PER ASTM A123.
7. STEEL POLE SHALL CONSIST OF TWO INDIVIDUAL STEEL SECTIONS AND CONTAIN ONLY ONE LONGITUDINAL SEAM WELD.
8. BOLT HEADS AND NUTS SHALL BE HEXAGONAL.
9. COORDINATE TENON SLOT AND BOLT HOLES FOR LOWERING DEVICE ARM WITH MANUFACTURER TO VERIFY THAT THERE IS A POSITIVE SEAT OF THE CCTV DIVIDED MAST ARM TO THE TENON POLE ASSEMBLY.
10. ANCHOR BOLT MATERIAL SHALL BE ASTM F1554.
11. THE MANUFACTURER SHALL SUPPLY ALL OTHER HARDWARE WHICH IS NECESSARY TO INSTALL THE POLE ASSEMBLY ON FOUNDATION.
12. 75FT CAMERA POLES SHALL BE USED ONLY WHERE APPROVED IN ADVANCE OF DESIGN BY THE AUTHORITY.
13. ALL STAINLESS STEEL HARDWARE SHALL BE TYPE 304.
14. WELDING SHALL CONFORM TO THE ANSI/AWS D1.1 STRUCTURAL WELDING CODE–STEEL, WITH NJTA AMENDMENTS IN NJTA STANDARD SPECIFICATIONS, WELDING INSPECTION AND FULL PENETRATION WELD NONDESTRUCTIVE TESTING SHALL CONFORM TO AWS D1.1.
15. FOR GROUNDING DETAILS SEE STANDARD DRAWING E–07.
16. WHERE SEPARATE EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN, PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC.

	BY	DATE
MADE	DR	08/2010
TRACED	GMS	08/2010
CHECKED	MS	08/2010
SUPERVISED	ALB	08/2010

0 ½ 1 2 3 4
ORIGINAL SIZE IN INCHES

APP.	NO.	DATE	REVISION
	1	5/2014	ANCHOR BOLT SIZE ADDED
	C	10/2013	CONFORMED DRAWING

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
CCTV CAMERA, POLE MOUNTED WITH LOWERING DEVICE DETAILS – 1

HNTB 9 ENTIN ROAD, SUITE 202, PARSIPPANY, NJ 07054 – COA# 24GA28000700
ANTHONY L. BARTELLO
New Jersey Professional Engineer License No. GE 45842

STANDARD DRAWING ITS–33

CONTRACT NO. SHEET NO. OF

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