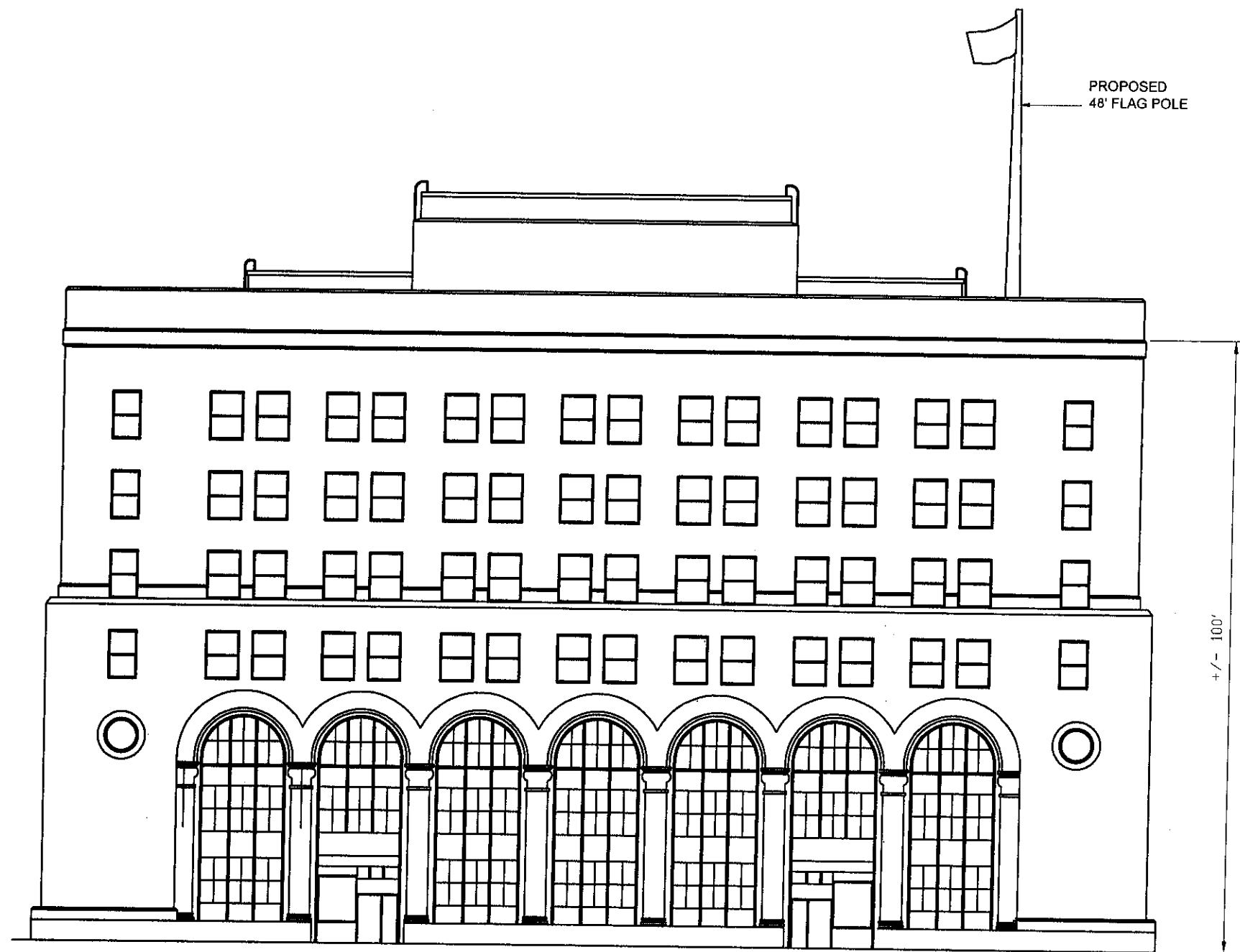
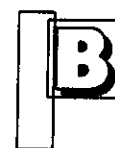




FORBES AVE ELEVATION

SCALE 1" = 20'

REV	DATE	REVISION DESCRIPTION



BERARDELLI DESIGN ASSOCIATES
2435 BROOKLEDGE ROAD
BRIDGEVILLE, PA 15017
412-519-2890

T-Mobile

LICENSURE

CITY OF PITTSBURGH
COUNTY OFFICE BUILDING
BTS - A4J0003-A - ROOF TOP

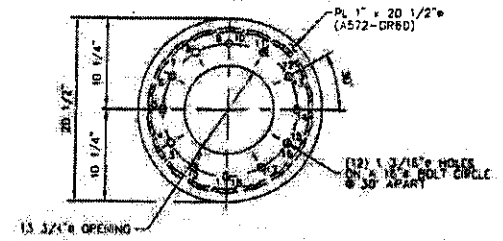
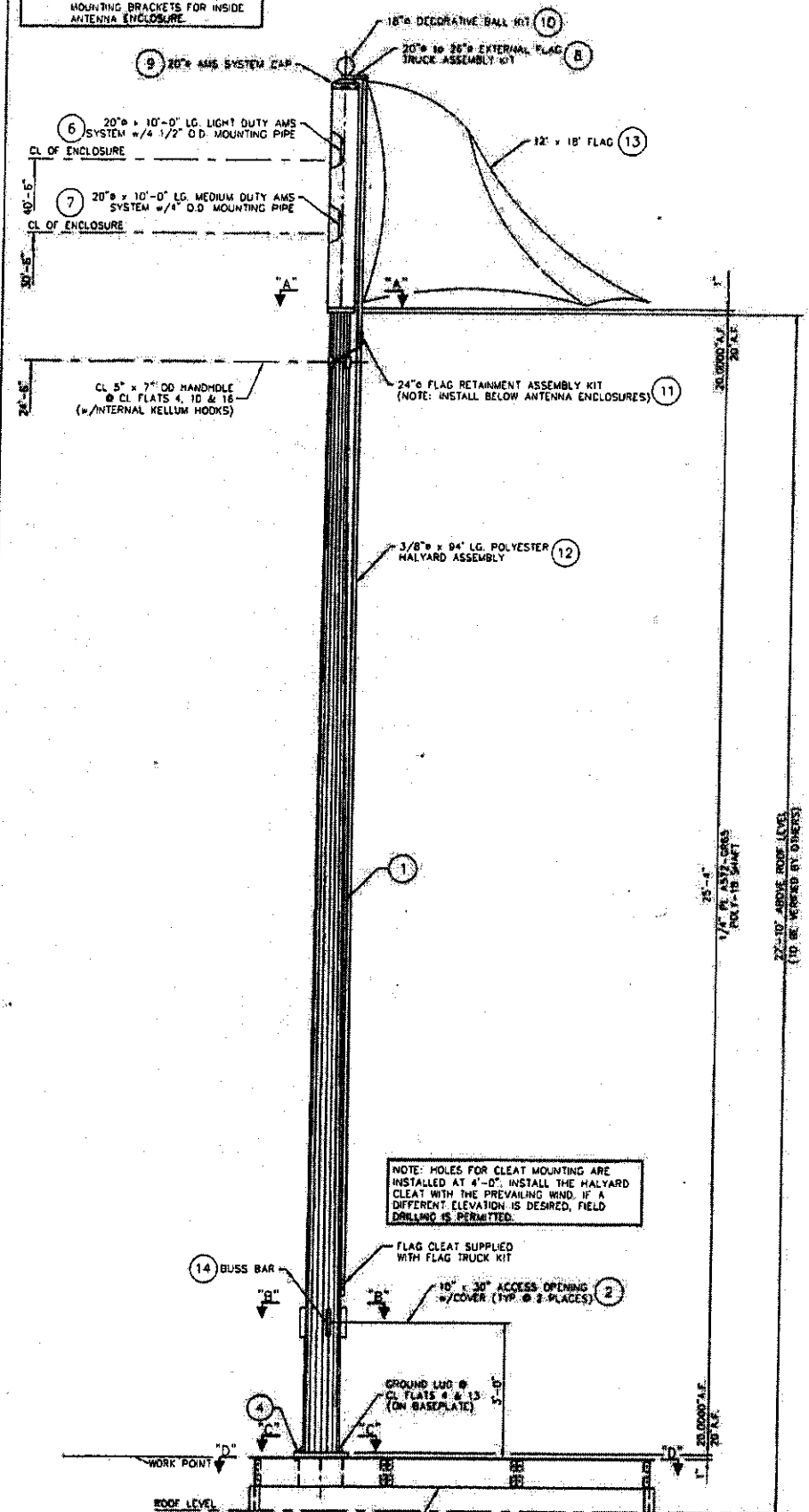
ROOF TOP PLAN

SHEET

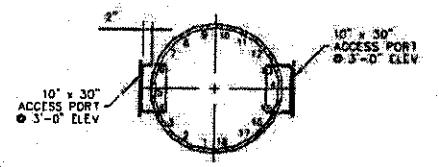
C3

SCALE 1" = 20' DATE 8-16-06 DRAWN PB

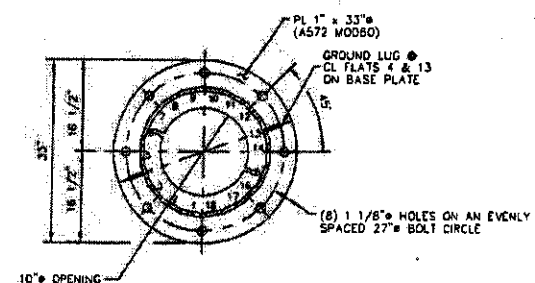
NOTE: CUSTOMER TO SUPPLY ANTENNA MOUNTING BRACKETS FOR INSIDE ANTENNA ENCLOSURE.



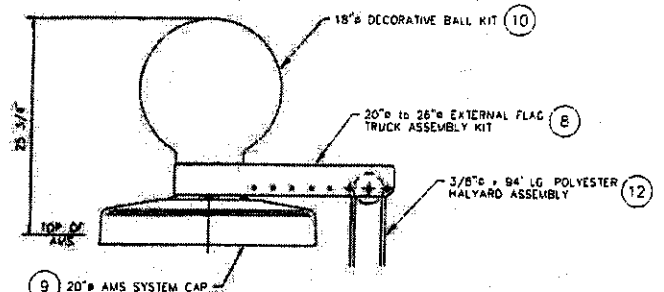
VIEW "A-A"
NOTE: AMS REMOVED FOR CLARITY



SECTION "B-B"



SECTION "C-C"



FLAG TRUCK DETAIL

NOTE: REVIEW ECI EXTERNAL FLAG POLE HALYARD SYSTEM INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING ASSEMBLY.

MATERIAL REQ'D. PER ASSEMBLY

GALV. WT.	QTY.	ITEM	MK. NO.	DESCRIPTION
---	1	(1)	---	SHAFT ASSY. (SING.)
31.41	2	(2)	K11497	10" x 30" ACCESS PORT COVER PL
---	---	(3)	---	HARDWARE AS FOLLOWS:
2.69	3	(4)	K11153	5" x 7" HANDHOLE COVER PL
31.74	1	(5)	K10003	1" SHIM KIT, 2 1/2" - 4" GRIP
---	1	(6)	---	STRUCTURE ASSEMBLY AND ERECTION PROCEDURES
368.25	1	(7)	K11488	20" x 10'-0" LG. LIGHT DUTY AMS SYSTEM w/ 1/2" O.D. MOUNTING PIPE
703.65	1	(8)	K11489	20" x 10'-0" LG. MEDIUM DUTY AMS SYSTEM w/ 1" O.D. MOUNTING PIPE
26.40	1	(9)	K11469	20" to 26" EXTERNAL FLAG TRUCK ASSEMBLY KIT
36.18	1	(10)	K11450	20" AMS SYSTEM CAP
10.04	1	(11)	K11475	18" DECORATIVE BALL KIT
11.45	1	(12)	K11477	24" FLAG RETAINMENT ASSEMBLY KIT
---	1	(13)	FL-HAL-94	3/8" x 94" LG. POLYESTER HALYARD ASSEMBLY
---	3	(14)	POLY12x18	12' x 18' AMERICAN FLAG
7.50	1	(15)	K10062	20" BUSS BAR KIT
---	1	(16)	K---	MONOPOLE AND EQUIPMENT SUPPORT FRAME

TOTAL GALV. STR. & ACCES. WT. #
TOTAL ANCHOR BOLT & TEMPLATE WT. 253.64#

GENERAL NOTES

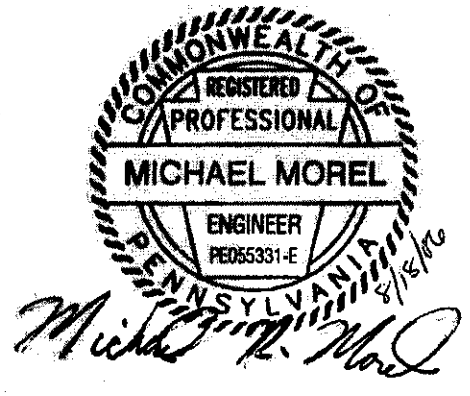
- MONOPOLE IS DESIGNED IN ACCORDANCE WITH TIA/EIA-222F FOR 80 MPH BASIC WIND SPEED (FASTEST MILE WIND) & 2003 IBC - 80 MPH BASIC WIND SPEED (FASTEST MILE WIND).
MONOPOLE BASE REACTIONS:
MOMENT - 64.8 KIP-FT
VERTICAL - 4.7 KIPS
SHEAR - 2.03 KIPS
- ALL WELDS SHALL BE IN ACCORDANCE WITH AWS D.1.1. (LATEST EDITION). LONGITUDINAL SEAM WELDS WITHIN SLIP-JOINT AREA IN FEMALE SECTION SHALL BE 100% PENETRATION.
- MONOPOLE SHALL BE NOT DIP GALVANIZED PER ASTM A123.
- CONTRACTOR SHALL THOROUGHLY REVIEW ECI'S ASSEMBLY & ERECTION PROCEDURE PRIOR TO INITIATING THE ERECTION OF THE MONOPOLE.
- THE ORIENTATION OF THE MONOPOLE SHALL BE VERIFIED PRIOR TO ERECTION OF THE POLE.
- GAP BETWEEN TOP OF THE FOUNDATION AND BOTTOM OF THE BASE PLATE MAY BE FILLED WITH A NON-SHRINK GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 10,000 psi. WATER DRAINAGE MUST BE PROVIDED UNDERNEATH THE BASE PLATE TO ENSURE THAT MOISTURE DOES NOT COLLECT INSIDE THE MONOPOLE.
- ALL BOLTED CONNECTIONS WITH A325 HIGH-STRENGTH BOLTS SHALL BE ASSEMBLED IN ACCORDANCE WITH SPECIFICATIONS FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS. BOLTS SHALL BE BROUGHT TO SNUG-TIGHT CONDITIONS AS RECOMMENDED BY THE FLANGE SPECIFICATIONS IN FLANGE-TYPE JOINTS AND SHOULD BE SHIMMED IF NECESSARY. THE SHIMS WILL BE SUPPLIED BY ECI.
- ANCHOR BOLTS SHALL BE TIGHTENED AFTER THE STRUCTURE IS PLUMB. BOTH TOP & BOTTOM NUT SHALL BE TIGHTENED TO 87 LB-FT ADJUSTMENT. FOR DETAIL ANCHOR BOLT INSTALLATION REFER TO ECI ASSEMBLY AND ERECTION PROCEDURE.
- POLE TAPER = 0.00004/in.

NOTE: ALL ELEVATIONS SHOWN FROM BOTTOM OF BASE PLATE UNLESS OTHERWISE NOTED.

ERECTION VIEW
SCALE - NONE

ASSEMBLY MARKING PROCEDURE
EACH INDIVIDUAL ASSEMBLY SHALL HAVE A METAL TAG WELDED TO IT WHICH WILL BE ENGRAVED WITH THE ASSEMBLY MARK NO. AS SHOWN IN THE MATERIAL BLOCK (MINIMUM OF 5/8" HIGH LETTERS).

THIS DRAWING IS CONFIDENTIAL AND MAY NOT BE LOANED, REPRODUCED, COPIED EITHER WHOLLY OR IN PART, OR MADE PUBLIC IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF ENGINEERED ENDEAVORS INC. - ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.



ENGINEERED ENDEAVORS INCORPORATED
The Experienced Point of View
7610 Jenner Drive • Mentor, OH 44060-4872
Ph: (440) 918-1101 • Ph: (888) 270-3855
Fx: (440) 918-1108 • www.engend.com

48'-0" FLAG POLE T-MOBILE
CITY COUNTY BUILDING / AJ4003
PITTSBURGH, PA

1 MONOPOLE FRAME RE-DESIGN
0 COMPLETED APPROVAL DWG

PROJECT NO. 14274
DRAWING NO. GS56341

ECI WILL NOT HONOR ANY BACKCHARGES WHICH HAVE NOT RECEIVED PRIOR WRITTEN AUTHORIZATION phone (440) 918-1101