

GeoBC
BRITISH COLUMBIA ACTIVE CONTROL SYSTEM

GPS ACTIVE CONTROL POINT as of 2013/05/03

STATION: BCES
GEODETIC MARK: 600411
FULL NAME: BCACS - Esquimalt ACP
CLASS: BCACS Primary
LOCATION: Victoria, B.C., Canada

- 2006/04/11

MARKER COORDINATES: Latitude n 48 25 45.33084
Longitude w123 25 43.29215
Ellipsoid Height 21.458m
Orthometric Height 39.678m

GEODETIC ATTRIBUTES: Datum/Ellipsoid = NAD83(CSRs) 3.0.0.BC.1.CRD
Geoid Model = HTV2.0
N = -18.22
xi = -0.03 s
eta = 12.42 s

- 2000/11/17

MARKER COORDINATES: Latitude n48 25 45.33084
Longitude w123 25 43.29215
Ellipsoid Height 21.508m
Orthometric Height 39.678m

GEODETIC ATTRIBUTES: Datum/Ellipsoid = NAD83(CSRs)
Geoid Model = HT97
N = -18.17
xi =
eta =

- Preliminary

MARKER COORDINATES: Latitude n48 25 45.3310
Longitude w123 25 43.292106
Ellipsoid Height 21.508m
Orthometric Height 39.678m

GEODETIC ATTRIBUTES: Datum/Ellipsoid = NAD83/WGS 84
Geoid Model = HT97
N = -18.17
xi =
eta =

REFERENCE NETWORKS:
Inner: nil

Outer:

COLLOCATION TIES:

- nil

ANTENNA HEIGHT: > vertical distance measured to antenna reference point
(antenna on stainless steel spacer)

- 2012/08/02 19:17UT 0.100 m
- 2008/12/11 21:00UT 0.097 m
- 2004/11/09 00:00UT 0.100 m
- 1999/10/27 00:00UT 0.100 m

GPS RECEIVER:

- 2012/08/02 16:45UT Trimble NetR9 s/n#5219K84999
- 2008/12/11 20:00UT Trimble NetR5 s/n#4811K54290
- 2004/11/09 21:00UT Trimble NetRS s/n#4416233466
- 1999/10/27 00:00UT Trimble 4700 s/n#220168600

FIRMWARE:

- 2013/05/04 00:15UT Firmware 4.80
- 2013/03/08 19:15UT Firmware 4.70
- 2012/08/02 16:45UT Firmware 4.46
- 2011/09/27 14:50UT Firmware 4.43
- 2010/12/21 15:15UT Firmware 4.19
- 2010/09/13 14:41UT Firmware 4.17
- 2010/07/21 14:15UT Firmware 4.03/Boot3.61
- 2009/04/28 17:30UT Firmware 4.01/Boot3.60
- 2008/12/11 20:00UT Firmware 3.64
- 2008/01/22 21:00UT Firmware 1.2.0/Boot1.13
- 2004/11/09 21:00UT Firmware 1.03/Boot1.00
- 2000/11/23 19:40UT Firmware 1.30/Boot1.00
- 2000/02/22 18:00UT Firmware 1.20/Boot1.00
- 1999/10/27 00:00UT Firmware 1.13/Boot1.00

ANTENNA (diagram below):

- 2012/08/02 19:17UT Trimble GNSS Choke Ring SCIS (TRM59800.00)
sn 5222354518
- 2008/12/11 21:00UT Trimble Zephyr GNSS Geodetic Model 2
(TRM55971.00) sn #####
- 2004/11/09 21:00UT Trimble Choke Ring (TRM29659.00) sn 20320300
- 1999/10/27 00:00UT Trimble Micro-centred with ground plane
(L1/L2) sn#220168788

ANTENNA CABLE:

- 2012/08/02 19:17UT LMR600 45m
- 1999/10/27 00:00UT LMR400 45m

CLOCK:

- 2012/08/02 16:45UT GPS Receiver Internal Clock
- 2008/12/11 20:00UT GPS Receiver Internal Clock
- 2004/11/09 00:00UT GPS Receiver Internal Clock
- 1999/10/27 00:00UT GPS Receiver Internal Clock

COMPUTER HARDWARE:

- 2012/01/16 00:00UT N/A
- 2004/11/09 21:00UT Dell PE2650
1024Mb RAM
- 1999/10/27 00:00UT Compaq PIII 350 sn#
64Mbyte RAM
13Gbyte hard disk (FAT Format)

COMPUTER SOFTWARE:

- 2012/01/16 00:00UT Trimble VRS3Net
- 2004/11/09 21:00UT Trimble GPSBase ver. 2.3
- 2001/02/27 18:45UT Trimble Reference Station Software (TRS) v1.02
- 1999/10/27 00:00UT NT Workstation ver. 4.0 service pack: 5
- 1999/10/27 15:00UT Trimble URS for Windows 1.0

MODEMS:

- Internal faxmodem s/n# N/A

UNINTERRUPTABLE POWER SUPPLY:

- 2004/11/09
- 1999/10/27 00:00UT Best Fortress LI1.42KVAB s/n#

STATUS:

- 1999/10/27 00:00UT Operational

AGENCY: GeoBC
Province of British Columbia

CONTACT: Vern Vogt P. Eng.
Province of British Columbia
GeoBC
3400 Davidson Ave.
Victoria, BC, Canada V8Z 3P8
Tel: (250) 952-6571
Fax: (250) 952-4188
email: vern.vogt@gov.bc.ca

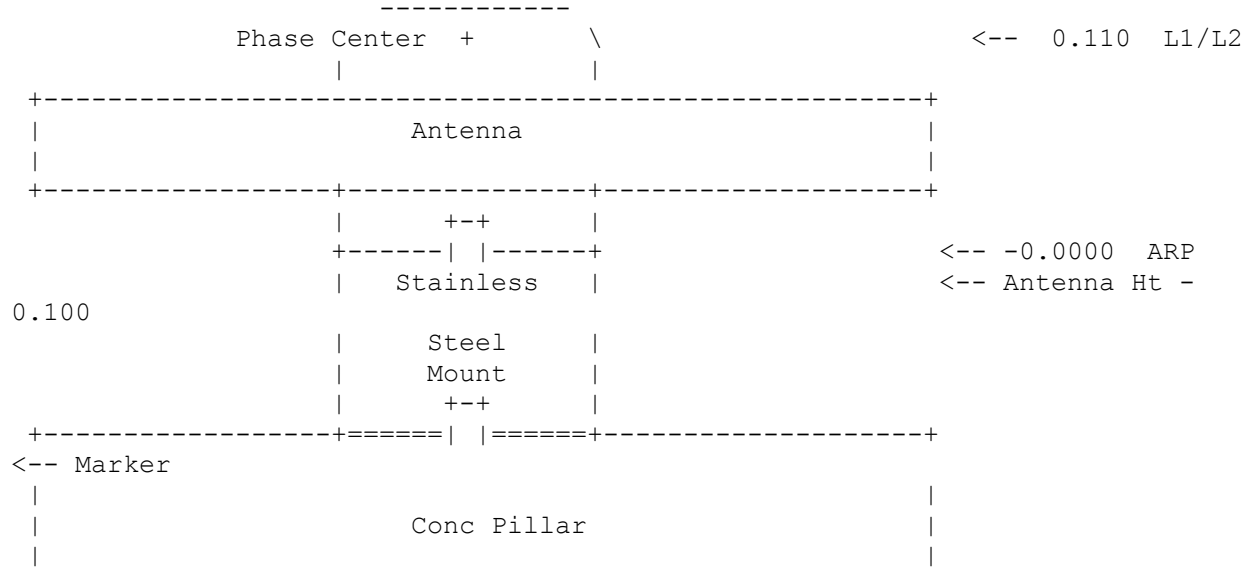
|/
|/

CONCRETE PIER

/|
/|

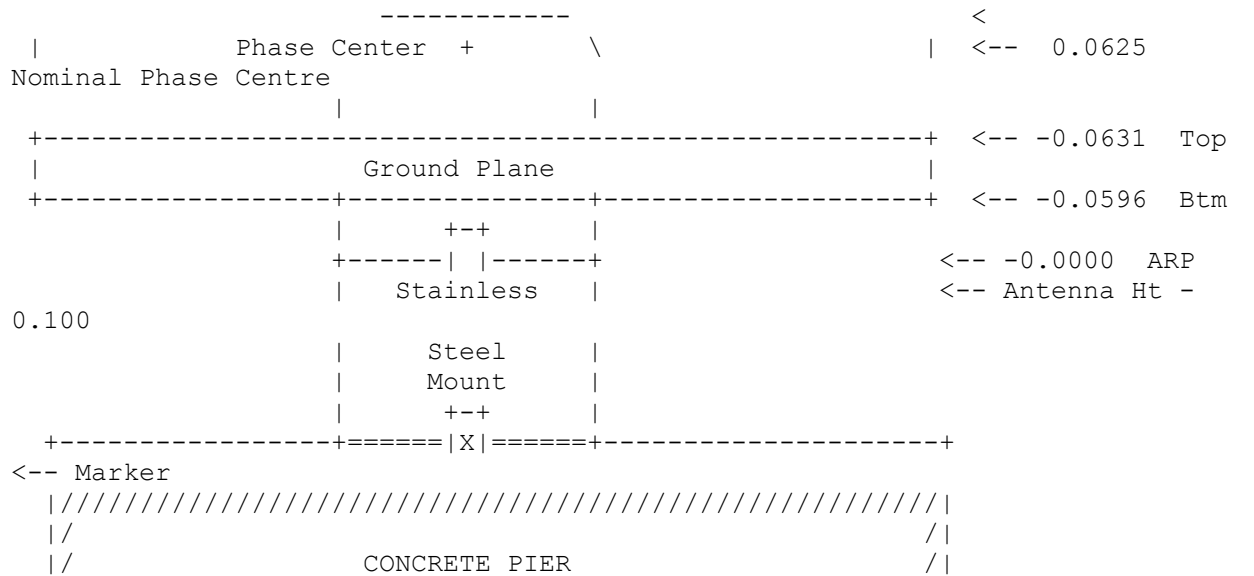
2004/11/09 Dorne Margolin Trimble Choke Ring (NGS TRM29659.00)

<-- 0.3810 -->



Trimble MicroCentre L1/L2 w/ Ground Plane (NGS TRM 33429.20+GP)

<-- 0.2413 -->



Marker - X

ACRONYMS:

ARP ... Antenna Reference Point

BCACS ... British Columbia Active Control System

NAD83 (CSRS) ... North American Datum 1983 Canadian Spatial Reference System

WGS84 ... World Geodetic System 1984
