

## C.1 Vertical Control

The vertical datum for this project is Mean Lower Low Water.

### ERS Datum Transformation

The following ellipsoid-to-chart vertical datum transformation was used:

Method	Ellipsoid to Chart Datum Separation File
ERS via VDATUM	S-C930_VDatum Limits_xyNAD83- MLLW_geoid12b_extended.csar

*Table 11: ERS method and SEP file*

## C.2 Horizontal Control

The horizontal datum for this project is North American Datum of 1983 (NAD 83).

The projection used for this project is Universal Transverse Mercator (UTM) Zone 18.

The following PPK methods were used for horizontal control:

- Smart Base
- RTX

The following CORS Stations were used for horizontal control:

HVCR Site ID	Base Station ID
CTGU	GUILFORD
MAFA	FALMOUTH
CTGR	GROTON
NYRH	RIVERHEAD
ZNY1	NEW YORK WAAS 1
NJCM	MIDDLE TOWNSHIP

*Table 12: CORS Base Stations*