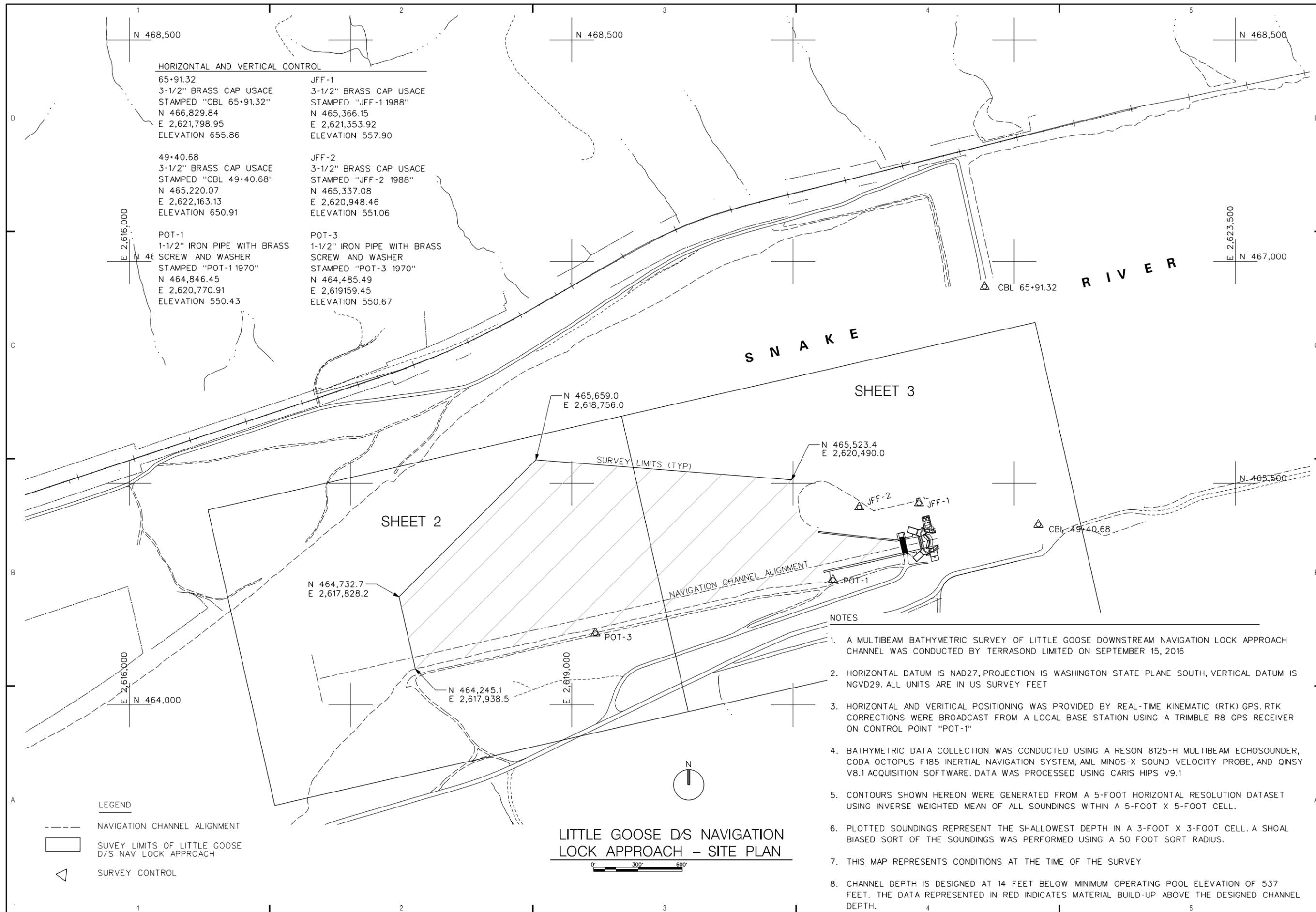
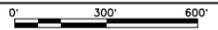


HORIZONTAL AND VERTICAL CONTROL

65+91.32 3-1/2" BRASS CAP USACE STAMPED "CBL 65+91.32" N 466,829.84 E 2,621,798.95 ELEVATION 655.86	JFF-1 3-1/2" BRASS CAP USACE STAMPED "JFF-1 1988" N 465,366.15 E 2,621,353.92 ELEVATION 557.90
49+40.68 3-1/2" BRASS CAP USACE STAMPED "CBL 49+40.68" N 465,220.07 E 2,622,163.13 ELEVATION 650.91	JFF-2 3-1/2" BRASS CAP USACE STAMPED "JFF-2 1988" N 465,337.08 E 2,620,948.46 ELEVATION 551.06
POT-1 1-1/2" IRON PIPE WITH BRASS SCREW AND WASHER STAMPED "POT-1 1970" N 464,846.45 E 2,620,770.91 ELEVATION 550.43	POT-3 1-1/2" IRON PIPE WITH BRASS SCREW AND WASHER STAMPED "POT-3 1970" N 464,485.49 E 2,619,159.45 ELEVATION 550.67



LITTLE GOOSE D/S NAVIGATION LOCK APPROACH - SITE PLAN



NOTES

1. A MULTIBEAM BATHYMETRIC SURVEY OF LITTLE GOOSE DOWNSTREAM NAVIGATION LOCK APPROACH CHANNEL WAS CONDUCTED BY TERRASOND LIMITED ON SEPTEMBER 15, 2016
2. HORIZONTAL DATUM IS NAD27, PROJECTION IS WASHINGTON STATE PLANE SOUTH, VERTICAL DATUM IS NGVD29. ALL UNITS ARE IN US SURVEY FEET
3. HORIZONTAL AND VERTICAL POSITIONING WAS PROVIDED BY REAL-TIME KINEMATIC (RTK) GPS. RTK CORRECTIONS WERE BROADCAST FROM A LOCAL BASE STATION USING A TRIMBLE R8 GPS RECEIVER ON CONTROL POINT "POT-1"
4. BATHYMETRIC DATA COLLECTION WAS CONDUCTED USING A RESON 8125-H MULTIBEAM ECHOSOUNDER, CODA OCTOPUS F185 INERTIAL NAVIGATION SYSTEM, AML MINOS-X SOUND VELOCITY PROBE, AND QINSY V8.1 ACQUISITION SOFTWARE. DATA WAS PROCESSED USING CARIS HIPS V9.1
5. CONTOURS SHOWN HEREON WERE GENERATED FROM A 5-FOOT HORIZONTAL RESOLUTION DATASET USING INVERSE WEIGHTED MEAN OF ALL SOUNDINGS WITHIN A 5-FOOT X 5-FOOT CELL.
6. PLOTTED SOUNDINGS REPRESENT THE SHALLOWEST DEPTH IN A 3-FOOT X 3-FOOT CELL. A SHOAL BIASED SORT OF THE SOUNDINGS WAS PERFORMED USING A 50 FOOT SORT RADIUS.
7. THIS MAP REPRESENTS CONDITIONS AT THE TIME OF THE SURVEY
8. CHANNEL DEPTH IS DESIGNED AT 14 FEET BELOW MINIMUM OPERATING POOL ELEVATION OF 537 FEET. THE DATA REPRESENTED IN RED INDICATES MATERIAL BUILD-UP ABOVE THE DESIGNED CHANNEL DEPTH.

LEGEND

- NAVIGATION CHANNEL ALIGNMENT
- ▭ SURVEY LIMITS OF LITTLE GOOSE D/S NAV LOCK APPROACH
- △ SURVEY CONTROL

Date	Description	Symbol	Date	Description

DESIGNED BY: JEFFREY W. WILSON
CHECKED BY: LINDSEY K. WILSON
DATE: 21 OCTOBER 2016
TASK ORDER NO.: 02
CONTRACT NO.: W912EF-16-D-0004
SUBMITTED BY: W912EF-16-D-0004
FILE NO.:

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WALLA WALLA, WASHINGTON

TERRASOND
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LOWER MONUMENTAL LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON, AND IDAHO
W912EF-16-D-0004, T.O. NO. 02
LITTLE GOOSE DOWNSTREAM
NAVIGATION LOCK APP CHANNEL
MULTIBEAM BATHYMETRIC SURVEYS

Plate number:
V-001
Sheet 1 of 3