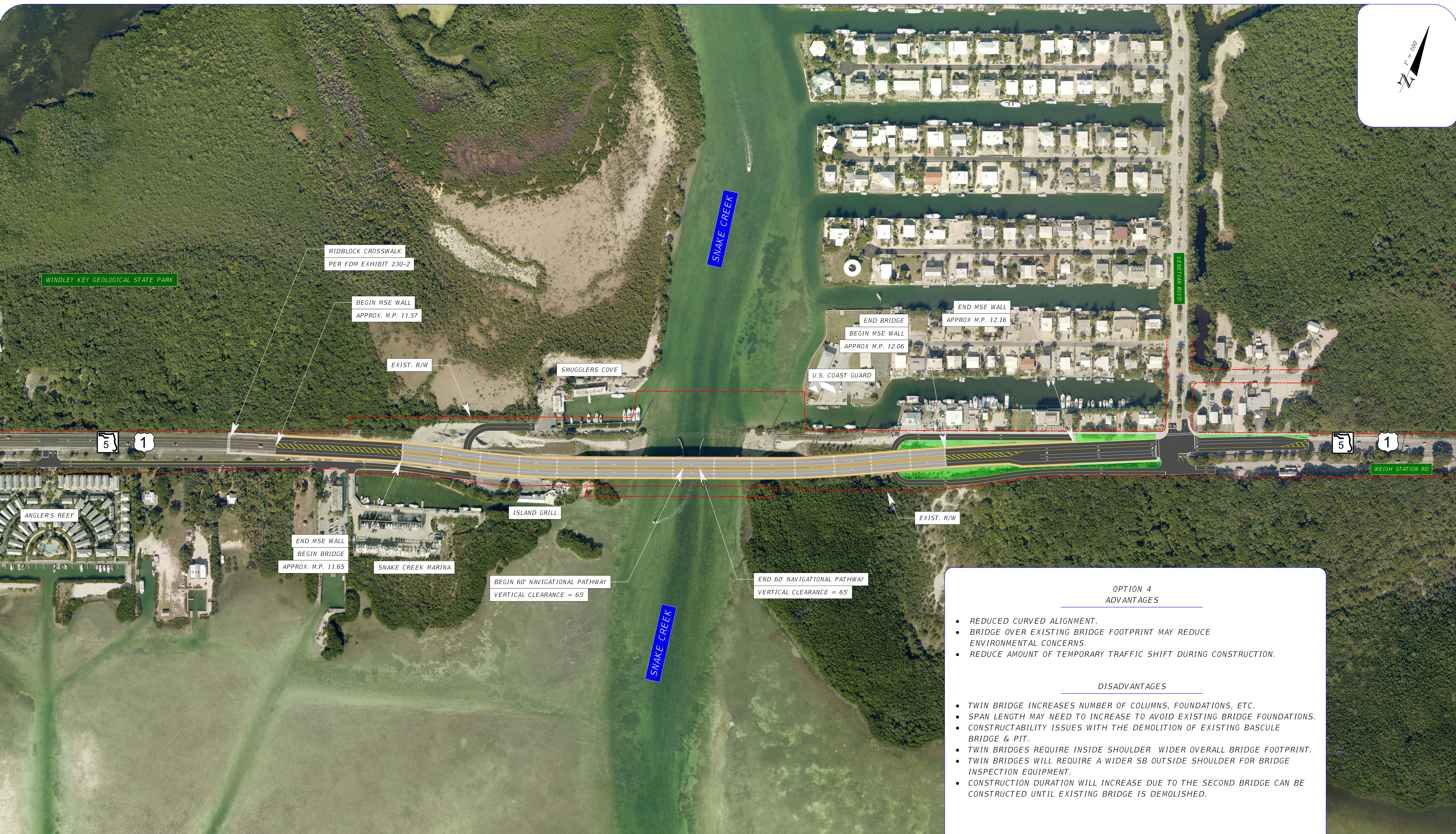
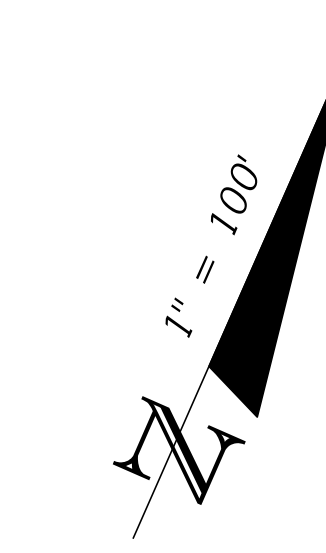




**OPTION 4
ADVANTAGES**

- REDUCED CURVED ALIGNMENT.
- BRIDGE OVER EXISTING BRIDGE FOOTPRINT MAY REDUCE ENVIRONMENTAL CONCERNS.
- REDUCE AMOUNT OF TEMPORARY TRAFFIC SHIFT DURING CONSTRUCTION.

DISADVANTAGES

- TWIN BRIDGE INCREASES NUMBER OF COLUMNS, FOUNDATIONS, ETC.
- SPAN LENGTH MAY NEED TO INCREASE TO AVOID EXISTING BRIDGE FOUNDATIONS.
- CONSTRUCTABILITY ISSUES WITH THE DEMOLITION OF EXISTING BASCULE BRIDGE & PIT.
- TWIN BRIDGES REQUIRE INSIDE SHOULDER WIDER OVERALL BRIDGE FOOTPRINT.
- TWIN BRIDGES WILL REQUIRE A WIDER SB OUTSIDE SHOULDER FOR BRIDGE INSPECTION EQUIPMENT.
- CONSTRUCTION DURATION WILL INCREASE DUE TO THE SECOND BRIDGE CAN BE CONSTRUCTED UNTIL EXISTING BRIDGE IS DEMOLISHED.