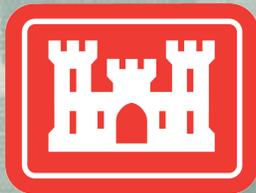


DASHIELDS L/D, OHIO RIVER

**MODIFICATION TO U.S. BOULE SILL
FOR NEW MAINTENANCE
BULKHEADS.**

**UNDERWATER CONCRETE
PLACEMENT**



®

US Army Corps of Engineers
BUILDING STRONG®



DASHIELDS L/D, OHIO RIVER



EXISTING BOULE DAM SYSTEM BEING REPLACED



SILL LOCATION

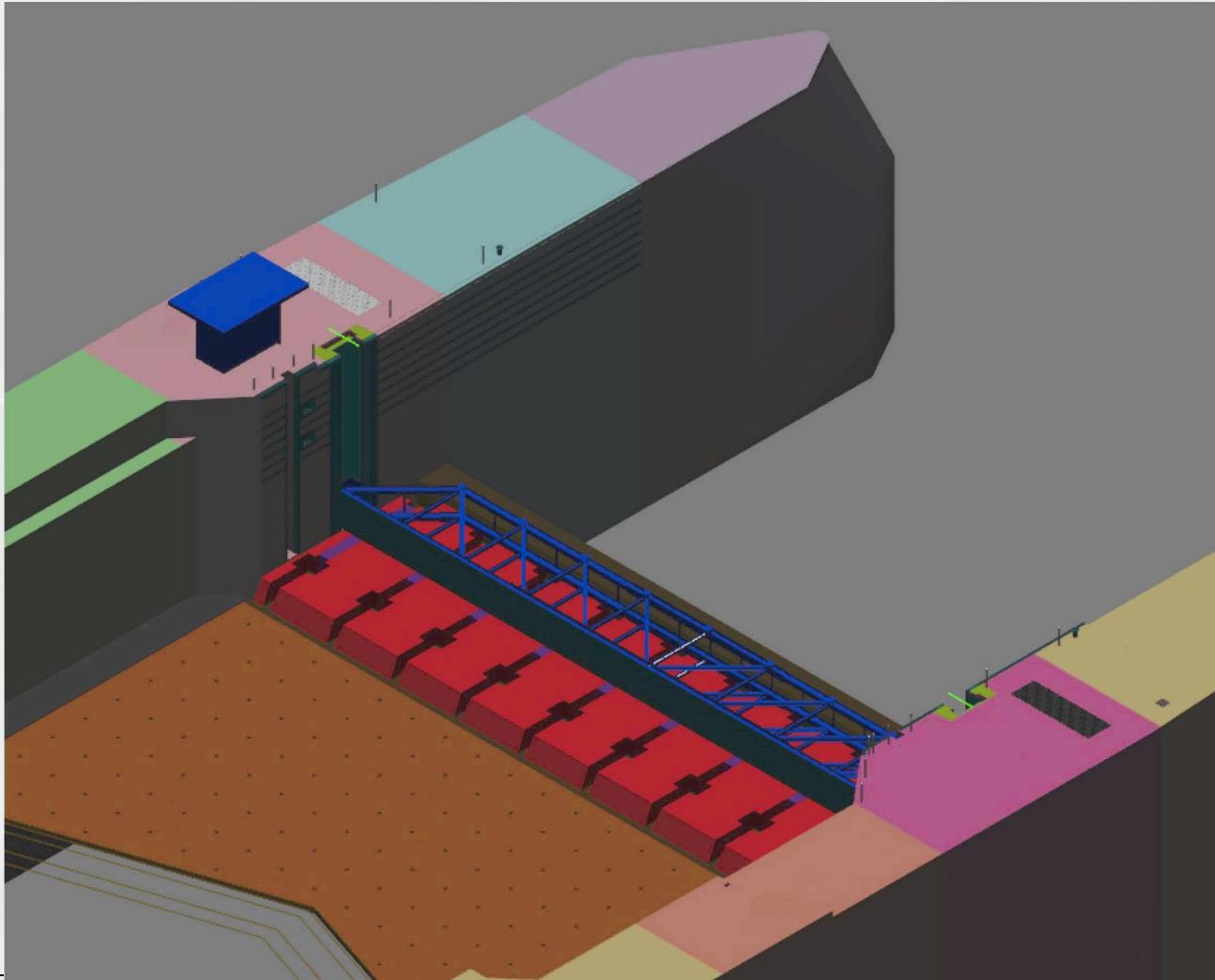


Dashields Dam

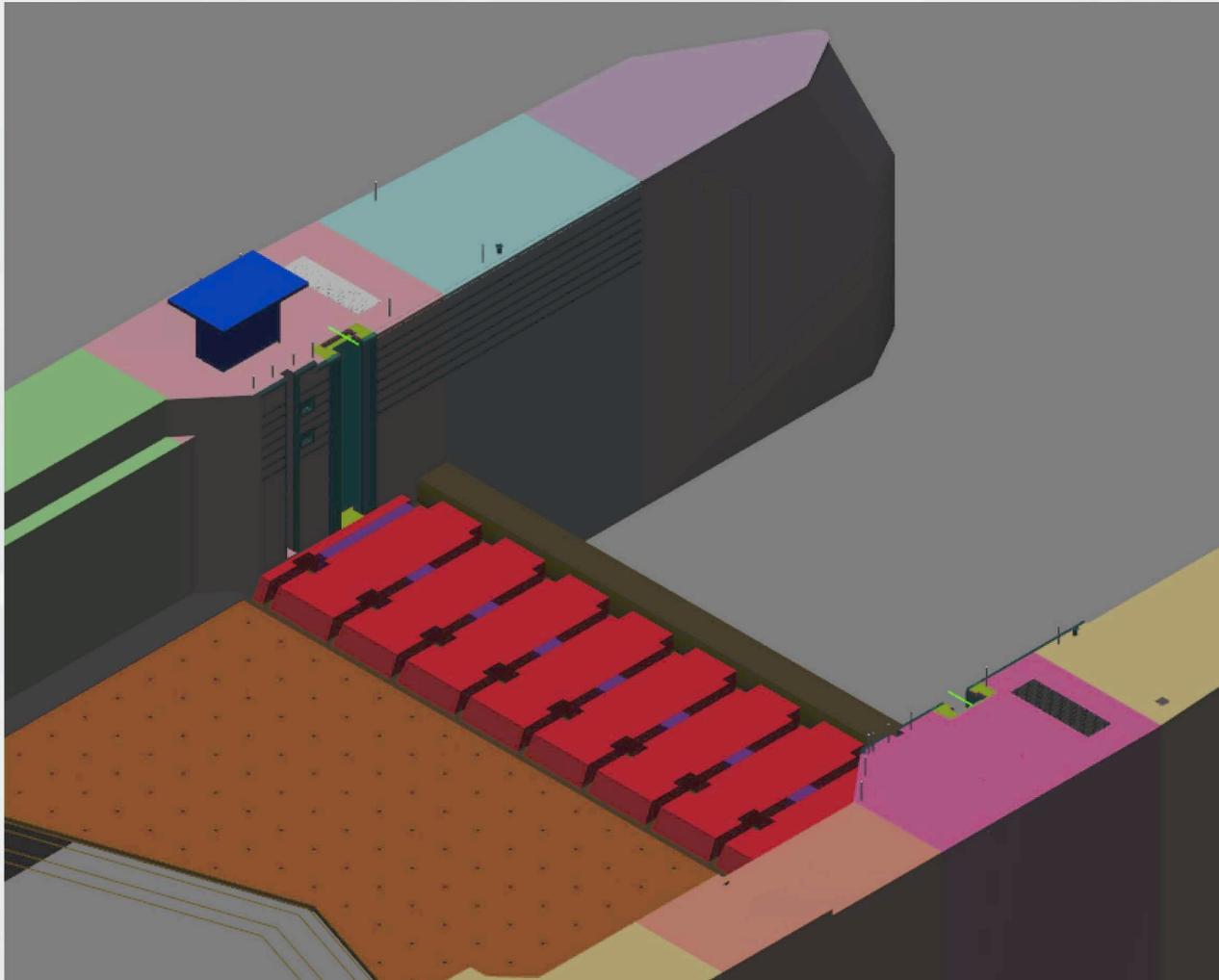
**NEW
MAINTENANCE SILL
LOCATION**



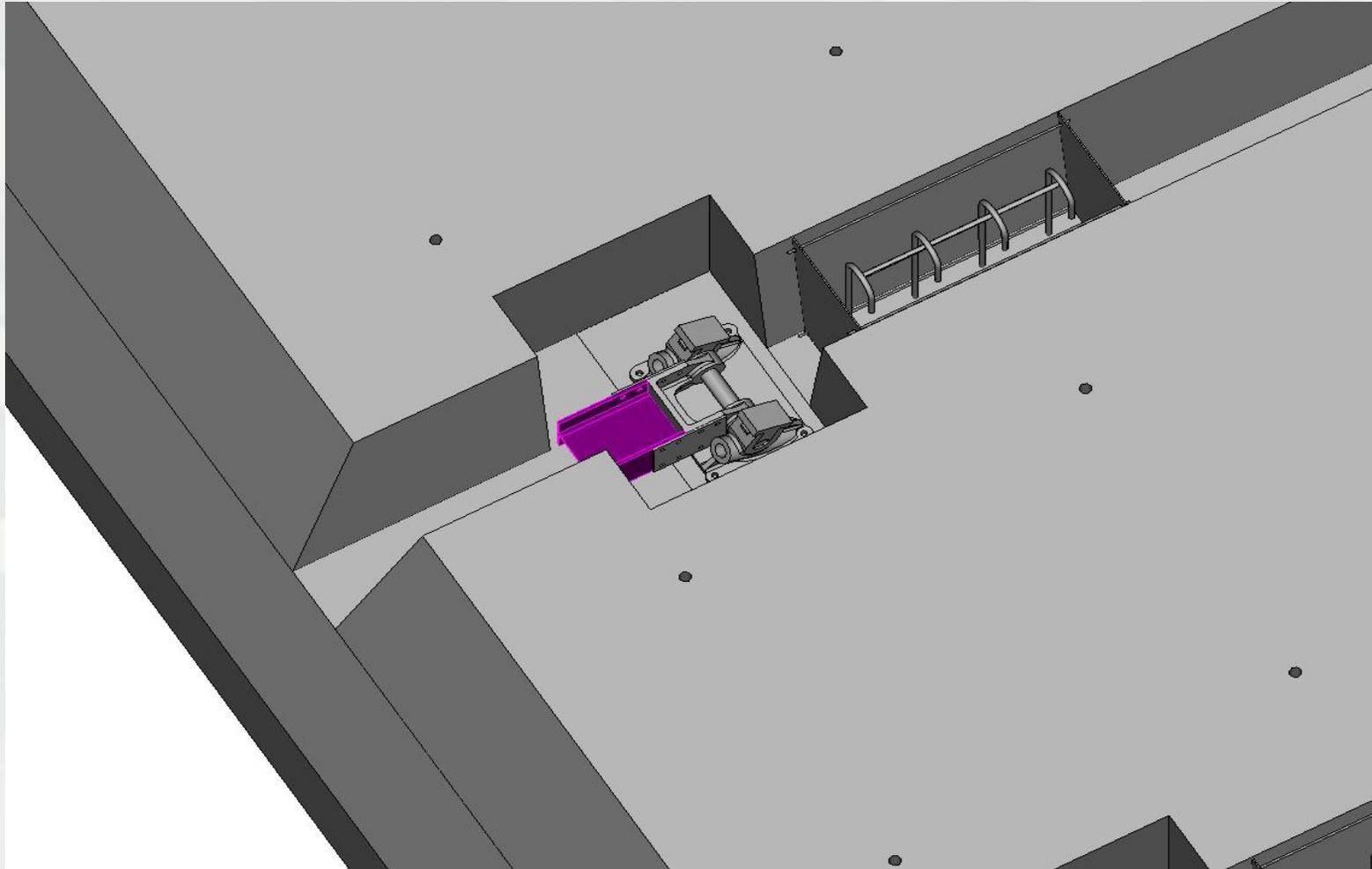
NEW U.S. MAINTENANCE BULKHEAD ARRANGEMENT



BOULE TROUGH AREAS BEING FILLED WITH UNDERWATER CONCRETE



FORMWORK/REBAR TYPICAL ARRANGEMENT IN TROUGHS



BOULE DAM BEAM REMOVAL



05.14.2014



REMOVED BOULE DAM SUBMERGED BEAMS



UNDERWATER EXOTHERMIC BURNING EQUIPMENT



DRILL TEMPLATES & GAUGES



DRILL
↓
TEMPLATES



LOCATION
GAGES



UNDERWATER HAMMER DRILL & DIESEL POWERED PUMP



HILTI HIT-RE 500 EPOXY



HOOK REBAR ANCHORS



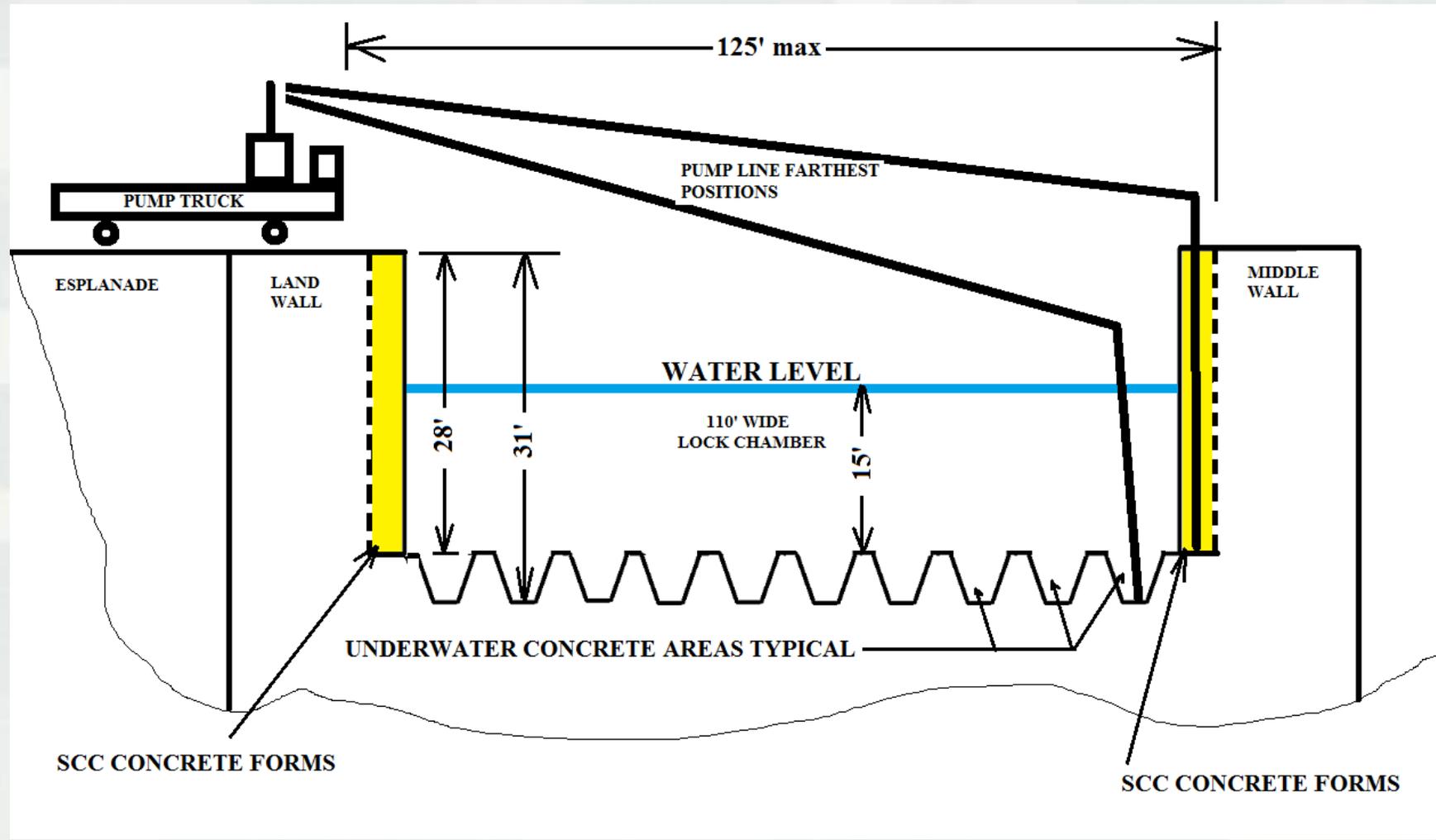
4' FORM ASSEMBLY & LIFTING FRAME



16' FORM ASSEMBLY & LIFTING FRAME



ARTICULATING BOOM PUMP TRUCK PLACEMENT REQUIREMENTS



UNDERWATER CONCRETE TESTING



UNDERWATER CONCRETE TEST PLACEMENT



UNDERWATER CONCRETE PLACEMENT



UNDERWATER CONCRETE PLACEMENT



UNDERWATER CONCRETE PLACEMENT



