

MARCH-MAY 2016



© Gary Minish

# VALDEZ NEW BOAT HARBOR

## CONSTRUCTION UPDATE (Phase 1 Uplands Civil Work)

Harris Sand & Gravel (HS&G) started remobilizing and implementing SWPPP and traffic controls on April 4th and resumed construction activities on April 11th. HS&G dug test pits to gain data about the location of bedrock in water for the harbor basin area.

**South Harbor Drive** – Civil work along South Harbor Drive (SHD) included removing part of the existing road bed, constructing curb & gutter with new storm drain inlets and sidewalk, and adding rock to control erosion on the existing harbor slope below the new sidewalk.

**Water and Sewer** – The HS&G crew and EMC inspector received training to update their HDPE pipe weld certification. HS&G welded 8” and 10” HDPE pipe for sewer and water mains, and smaller pipe for service lines, and continued installation of lines started in 2015. Unusable or surplus material from trench excavation was hauled to the Landfill and Sea Otter sites.

**Storm Drain System** – HS&G started installing storm drain piping and manholes.

**Ramp Abutments** – HS&G prepared the grade and subcontractor Zastrow placed the forms, rebar, and concrete for ramp abutment footings. HS&G welded structural steel caps on top of the abutment pilings.

**Utilities** – HS&G laid out, excavated and bedded the common trench for utility services and site electrical. After CVEA, CVTC, GCI and subcontractor Puffin Electric installed their conduit in the trench, HS&G covered with bedding and backfilled.

**High Mast Lighting** – HS&G excavated around foundation piling for the high mast lights to create work space, placed prefabricated pile extensions with base plates and started welding the extensions.

**Survey** – Wrangell Mountain Technical services surveyed the top of east fill to check for settlement, provided line and grade for sewer, water, ramp abutments and electrical activities.

**General** – HS&G finished hauling shot rock from the site and started grading the site to final subgrade. Zastrow Enterprises formed and placed concrete for precast sleepers at their warehouse. In addition to Phase 1 work, HS&G crushed rock at Sea Otter, prepared access from the uplands to the USACE portion of the project, and delivered rock to Western Marine for construction of the breakwaters.

## PROJECT ACHIEVEMENTS

- Reviewed HS&G proposal for Uplands Facilities integration and issued change order
- Reviewed HS&G proposal for ADEC water and sewer changes and issued change order
- Issued 95% Phase 2 Floats Design for review and comment
- Started trenching (HS&G) and installing electrical/telecom conduit (CVEA, CVTC, GCI)
- Finished installing water and sewer main lines
- Continued installing water and sewer service lines
- Started installing storm drain pipe and manholes
- Started installing base plate assemblies on high mast light pile foundations
- Constructed ramp abutment foundations and started the retaining walls
- Western Marine started dredging the navigation channel and basin and constructing breakwaters for USACE

## MARCH/MAY 2016 PROJECT UPDATE (CONT.)

EMC provided general observations and pipe inspection, compaction testing for fill, and concrete sampling and testing for curb, gutter and abutments.

### DESIGN

R&M Consultants (R&M) continued to work with the City (COV) on phased design packages for the new harbor. They continued to provide limited construction phase services for the Uplands Civil Work and coordinated with the US Army Corps of Engineers (USACE) regarding design modifications required to integrate the COV work into the USACE designed basin construction package. R&M continued coordination with USACE and various State and Federal entities on the federal permit modification application for the drive-down ramp and fish cleaning station, including blasting and pile driving. Discussions continue with the National Marine Fisheries Service. While the timing remains uncertain, the latest assumption is the permit modification will be received in July with marine mammal monitoring distances based on blasting charge size to minimize resource impacts.

R&M Consultants (R&M) issued a partial 75% Inner Harbor Facilities (floats) design for the launch ramp area to submit to ADF&G as part of a grant application process. R&M also issued the 95% Inner Harbor Facilities design for COV review and comment. Due to the higher than expected cost of blasting in-water rock, the Owner's team is developing and evaluating alternatives for the drive-down float and other project components.

### USACE NAVIGATION IMPROVEMENTS

The USACE is administering the dredging and breakwater contract with Western Marine Construction (WMC). In early April, WMC started dredging the entrance and eastern portion of the basin, and placing rock for three breakwaters. In June they will start installing wick drains, which are a critical and technical element of the breakwater construction. The USACE continues to work with the resource agencies on a permit modification to allow in-water blasting work within the initial basin area. The timeline for this permit follows a different process than the COV permit but the anticipated resolution dates and requirements are similar. COV representatives attend the USACE weekly construction coordination meetings. COV has authorized WMC to access the west breakwater from the Uplands site which will save time. COV is requesting additional dredging in the west end of the basin to improve maneuvering for floats and ramps. COV and WMC representatives are also discussing potential WMC access from the Uplands to the east breakwater and testing the capability of WMC's Excentric ripper for removal of in-water rock.

### FUTURE MILESTONES

- Complete as-built survey submittals for excavation and fill
- Confirm scope and finalize bid documents for in-water rock removal, dredging, and sediment berm construction
- Finish construction and backfill retaining walls for ramp abutments
- Complete and test water, sewer and storm drain systems
- Finish installing electrical/telecom conduit (CVEA, CVTC, GCI)
- Complete installation of base plates on high mast light foundations
- Start boardwalk and plaza foundations
- Prepare grade and start installing curb and sidewalk on east side
- Patch pavement at utility tie-ins and along new curb on South Harbor Drive

### PROJECT TEAM

Jason Miles, Capital Facilities Director, City of Valdez || 907.835.5478

Lynn Meyers, Project Manager, USACE || 907.384.7966

Kim Nielsen, Group Manager, Waterfront Engineering, R&M Consultants || 907.646.9602

Carol Linnell, Admin. Asst., Harris Sand & Gravel || 907.835.4756

Ron Rozak, Construction Manager, Arcadis || 907.382.2933





Placing concrete for 8" thick sidewalk area on S. Harbor Drive



Placing steel cap on piling for attachment of future gangway



Fusion welding HDPE pipe joints



Placing bedding in common trench for electric and telecom



Laying a long section of sewer pipe in trench



Site electrical and utility conduit with risers in common trench

# PRELIMINARY PROJECT SCHEDULE

\* Schedule and Scope depends on funding and USACE's completion of dredging and breakwater.

Task	2014	2015				2016				2017				2018
	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
<b>CITY OF VALDEZ WORK</b>														
Corps of Engineers Permit														
<b>Phase 1 Uplands (Civil Work)</b>														
Design/Bid/Award														
Construction														
<b>Phase 2 Inner Harbor Facilities (Including Launch Ramp)</b>														
Design/Bid/Award/Procurement*														
On-Site Construction*														
<b>Uplands Facilities</b>														
Design/Bid/Award/Procurement*														
On-Site Construction*														
<b>Future Facilities</b>	TBD													
<b>CORPS OF ENGINEERS (USACE) WORK</b>														
<b>Harbor Dredging and Breakwaters</b>														
Quarry Development/Dredging/ Breakwater Construction														

## BUDGET SUMMARY

Description	Original Budget	Revised Budget	Committed	Spent as of 5/31/16	% Spent	Estimate at Completion
<b>DESIGN</b>	\$ 2,451,971	\$ 2,507,679	\$ 2,455,296	\$ 1,880,437	75%	\$ 2,544,367
Design	\$ 1,851,971	\$ 1,907,679	\$ 1,907,679	\$ 1,655,470	87%	\$ 1,938,795
Design Team Services During Construction	\$ 600,000	\$ 600,000	\$ 547,617	\$ 224,967	37%	\$ 605,572
<b>PROJECT MANAGEMENT</b>	\$ 2,340,548	\$ 2,362,548	\$ 1,841,827	\$ 1,228,074	52%	\$ 2,362,548
Project Management	\$ 1,740,548	\$ 1,762,548	\$ 1,478,877	\$ 1,011,821	57%	\$ 1,762,548
Inspection/Testing	\$ 600,000	\$ 600,000	\$ 362,950	\$ 216,253	36%	\$ 600,000
<b>USACE CONSTRUCTION - CITY PORTION</b>	\$ 9,345,453	\$ 9,345,453	\$ 7,145,453	\$ 4,761,258	51%	\$ 9,345,453
Initial Basin	\$ 7,145,453	\$ 7,145,453	\$ 7,145,453	\$ 4,761,258	67%	\$ 7,145,453
Other Basin Modifications	\$ 2,200,000	\$ 2,200,000	\$ -	\$ -	0%	\$ 2,200,000
<b>CITY CONSTRUCTION</b>	\$ 39,023,904	\$ 39,753,504	\$ 19,532,540	\$ 12,067,968	30%	\$ 40,158,124
Phase 1 Uplands	\$ 19,013,040	\$ 19,156,061	\$ 19,156,061	\$ 12,003,068	63%	\$ 19,156,061
Phase 2 Base Floats /Ramps/Fish Cleaning	\$ 9,300,100	\$ 9,800,100	\$ -	\$ -	0%	\$ 10,252,973
Upland Facilities	\$ 4,046,643	\$ 4,046,643	\$ -	\$ -	0%	\$ 3,998,390
Drive Down Float	\$ 4,951,721	\$ 4,951,721	\$ -	\$ -	0%	\$ 4,951,721
Drive-Down Float In-water Modifications	\$ 1,342,500	\$ 1,342,500	\$ -	\$ -	0%	\$ 1,342,500
Hotel Hill Clearing - Alaska Land Clearing	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	100%	\$ 40,000
Hotel Hill Clearing - P&R Enterprises	\$ 24,900	\$ 24,900	\$ 24,900	\$ 24,900	100%	\$ 24,900
Electric Primary	\$ 225,000	\$ 311,579	\$ 311,579	\$ -	0%	\$ 311,579
CCTV/Security/Head End Equipment	\$ 80,000	\$ 80,000	\$ -	\$ -	0%	\$ 80,000
<b>ADMINISTRATION</b>	\$ 60,000	\$ 60,000	\$ 41,374	\$ 41,374	69%	\$ 60,000
<b>FFE</b>	\$ 100,000	\$ 100,000	\$ -	\$ -	0%	\$ 100,000
<b>CONTINGENCY (@ 15% original budget)</b>	\$ 7,998,281	\$ 7,190,973			11%	\$ 6,749,665
<b>TOTAL CITY FUNDED</b>	\$ 61,320,157	\$ 61,320,157	\$ 31,016,490	\$ 19,979,111	33%	\$ 61,320,157
<b>USACE FUNDED</b>	\$ 21,277,761	\$ 21,277,761	\$ 21,277,761	\$ 1,359,575	6%	\$ 21,277,761
<b>TOTAL CITY/USACE FUNDING</b>	\$ 82,597,918	\$ 82,597,918	\$ 52,294,251	\$ 21,338,686	26%	\$ 82,597,918

\* Data includes expenses from 5/22/14 which is the start of the Bond eligible costs authorized by COV Resolution 14-33. \$254,321.77 in R&M Expenses and other costs are not included. USACE expense data has been requested.