

Dredge Projects

or

Mobilization Exercises?

Mob Cost Drivers

- Mob Schedule
 - Tight Schedule?
 - Time for Plan B?
- Project Complexity
 - Equipment Spread
 - Location
 - Weather
- Contract Mob Risk
 - Original Concept (assumed)
 - Options
 - Funding
 - Permits/3rd Party



Mob Schedule

Potential Complications

- Quick Start Dredging
- Enviro windows
- Current project obligations
- SAFETY
- Large Spread
- New equipment
- New methods
- New techniques
- SI
- Plan B?



Equipment Spread

- Simple or Extreme
- Location
- Weather
- Disposal Areas



Contract Risk

Original Concept (assumed)

What can change?

- Options
- Funding
- Permits/Third Party



Sample Project

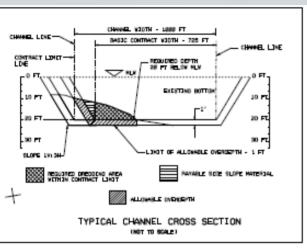
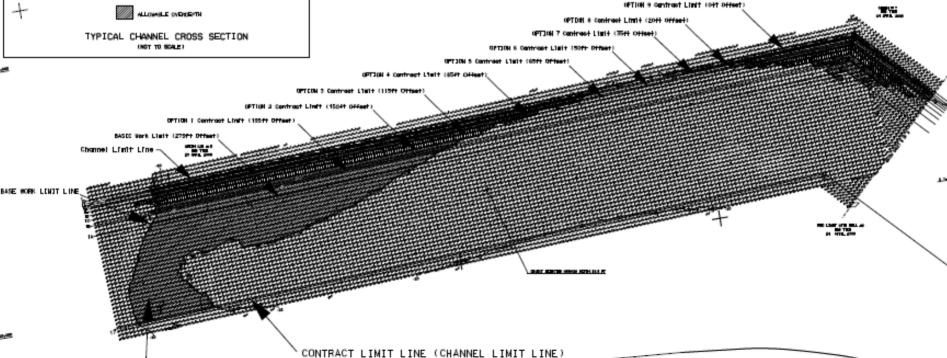


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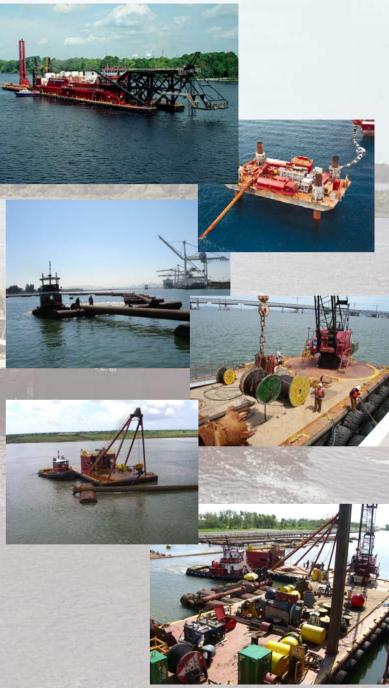
Sample Project

Complications

- •Quick Start Dredging
- Enviro windows
- Current project obligation
- SAFETY
- Large Spread
- New equipment
- New methods
- New technique
- -SI
- Plan B?



TYPE Location Large class CSD Louisiana **Booster** Louisiana Launches **East Coast Florida** Derrick **East Coast Florida Fuel Barge East Coast Florida Anchor Barge East Coast Florida Plunder Barge East Coast Florida Rental Tug** Local?? 2 Dozers **East Coast Florida** 1 FEL **East Coast Florida** 1 land based crane Local 25,000 feet subline **East Coast Florida** 2,000 feet floathose **East Coast Florida** 5,000 feet shoreline **East Coast Florida**



HOW DOES IT ALL GET THERE? CARE TO DANCE????

- Prep Dredge for Ocean Going Tow
- •Tow Dredge to site with Rental Tug RT slow bell
- ■Tow Subline Rafts 5,000' each (5 tows with 2 tugs each tow)
- Tow Derrick Barge with launch
- Tow Anchor Barge with launch
- Tow Fuel Barge with launch
- Tow Float Hose with launch
- Tow Plunder barge with launch
- Prep Booster
- Tow Booster with rental tug RT
- ■Tugs at \$10,000 per day each
- •Equipment may or not be charged during tows
- •Long Distance tows can easily reach \$200k to \$350k each







NOW IT IS THERE, HOW DO WE GET IT TO WORK??

- Rental Tugs during prep
- Derrick during prep
- Set up Office
- Transportation and Travel
- Survey Boat to Site
- Truck Land Equipment to site
- Prep Dredge for Work



REMEMBER, EXPENSIVE SPREAD OF EQUIPMENT AND LABOR ALREADY ON SITE BEFORE DREDGE EVER ARRIVES!!

WHAT ABOUT ALL THAT PIPELINE?

- Shore pipe loaded onto trucks
- Truck shore pipe
- Shore pipe unloaded at site
- Subline, unrafted and installed (EXTREMELY WEATHER DEPENDENT)

AND OF COURSE THE WEATHER IS ALWAYS PERFECT!!!

- In poor weather, EVERYTHING SHUTS DOWN.
- •Never for a day always more.
- •The intricate dance becomes a nightmare.

Contract Risk

Original Concept (assumed)

- Assumption entire project gets awarded QUICKLY!
 - 1 to 2 month mobe
 - 3 weeks work MAX
 - 2 to 4 week demobe
- How do you cost?
- How do you price?
- What would you do?



Contract Risk

What can change?

- Options don't get awarded QUICKLY
 - Miss opportunity to bid other work
 - Mobe still the same depending on timing
- Options Awarded Randomly
 - Possible Redredge Areas
- Surveys show different project
- Weather creates different project
- Permits/Third Party

Mobe Costs Conclusion

- Cost Estimating for dredging is difficult.
- Cost Estimating for dredge mobilization is REALLY difficult!
- Don't be surprised at a wide spread of opinions.....
- AND ...WHAT ABOUT THE DEMOBE??

Realize America's Maritime Promise Harbor Maintenance Fairness Coalition

www.RAMPHMTF.org

3 Layered approach

- Coalition Building
- Legislative Action
- Assure money to be spent as intended.

