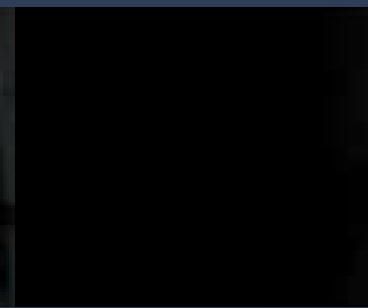
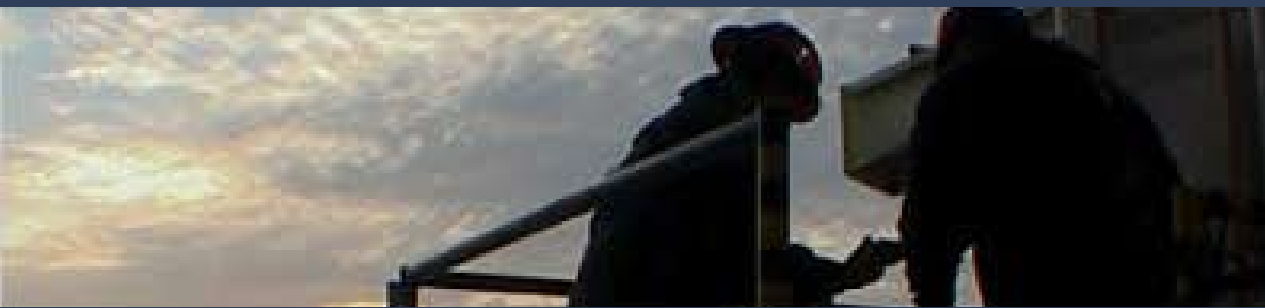


# MARINE CONSTRUCTION SURVEY



## MARINE CONSTRUCTION SURVEY DIVISION CAPABILITIES

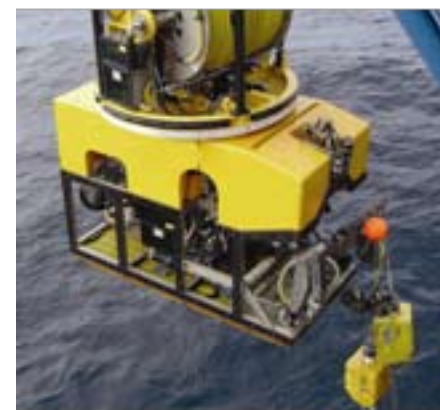
The Marine Construction Division of C & C Technologies, Inc. provides a wide range of services for both our 24-hour call out and project-oriented customers.

The 24-hour call out service offers quick response to rig positioning services, which include jack-up, semi submersible, and DP drilling rigs. In conjunction with positioning services, the Marine Construction Division supports Scanning Sonar operations for both Lift Boats and Dive Vessels. The High precision surveys determine the location of man-made and naturally occurring seafloor anomalies, thus aiding in their recovery or avoidance.

Through the water column, as well as on the seafloor, the Marine Construction Division supports positioning of Remote Observation Vehicles (ROV), employing industry-recognized and accepted acoustic Ultra Short Baseline (USBL) techniques.

Project-oriented customers have become accustomed to the established and innovated solutions provided by the Marine Construction Division. The Marine Construction Division utilizes both Inertial Navigation System (INS) and Long Baseline (LBL) Acoustic System to support the wide variety of deepwater seafloor positioning requirements. The above systems have a proven track record supporting the positioning or measuring of the following seafloor assets:

- Metrology for Jumper Spool Pieces
- Positioning of Manifolds
- Positioning and orientation of Suction Piles
- Positioning of PLET (Pipeline End Termination)
- Determine Cut to Length of Deepwater Pipeline – During Installation
- Positioning of ROV(s) during Intervention Tasks



*ROV Positioning Support*

## MARINE CONSTRUCTION SURVEY TEAM

C & C Technologies' goal is to work as a team to find survey solutions for our clients' project requirements. Our experienced team includes the following: survey engineers, acoustic engineers, party chiefs, offshore surveyors, project managers and electronic technicians.



*Fabrication Yard Survey*



*Pile Installation Survey*



*Mattress Installation Support*

# MARINE CONSTRUCTION SURVEY

## SERVICES AND APPLICATIONS

### OFFSHORE SERVICES

- Rig Positioning
- Installation Surveys
- Acoustic Metrology
- Satellite Differential GPS Services
- Surface Positioning with Real Time QA/QC
- Acoustic Positioning
- ROV Positioning
- Offshore Pipeline Burial and Inspection
- Site Specific Surveys
- Deepwater Precision Bathymetry
- Pipeline Location / Depth of Cover
- Remote and Underwater Orientation
- Surface Positioning with Real Time QA/QC
- Remote Tug Positioning
- Fabrication Yard Surveys
- Salvage Survey Support

### DATABASE SERVICES

- Permitting Plats
- Extensive Offshore Database Information
- As-built Construction Drawings



*Acoustic Metrology*



*Platform Tow-Out / Installation Survey*



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