



Gulf Coast Marine Solutions Presents:

“The new evolution in elevated concrete slab construction for Coastal Projects.”

In light of recent catastrophic storm events and realizing the need for stronger, faster and more cost-effective building methods, we have developed a system to erect elevated foundations that will raise the bar and set coastal building standards for years to come. This brochure will explain and help visualize through photos and drawings the system we have developed.

Planning and Development

At GCMS we believe that “Cost Engineering”, along with the planning and development stage of any project are the critical functions that will make or break your project. Prior to commencement of any field work our Planners, and Architect, along with your Engineer, will develop a precise schedule of events detailing the cost of each step to ensure an on time finish using the best combination of material and workmanship that will produce a superior building.

Foundations

Following the planning and development stage the next step to ensuring a stronger more storm-resistant structure is laying a solid foundation. techniques.

Without a solid foundation any building is going to fail. GCMS is evolving, adapting and setting new standards in building practices by improving upon older outdated techniques.

Setting a Lower foundation starts with spotting, staking then squaring the piling layout. We rely on laser technology to ensure our buildings are square to within 1/1000 of an inch. Depending on the application, soil conditions and other factors we will drive, drill or apply a combination of both driving to set our piles. Strength comes from the highest quality materials available along with proven experience. Placement of high-quality composite piles by Pearson Piles, rebar, wire mesh, a smooth grade and concrete donuts poured in place around each pilings give our foundations extra strength while still retaining cost savings. Our methods of construction and our attention to detail guarantee a square piling set that will ensure a solid square elevated slab.

The Elevated Slab

The detailed squaring, framing, shoring and pouring of an elevated concrete slab is dependent upon every project having a ground level poured concrete foundation built “on grade” which was designed, poured and built by us with the greatest of care. This affords us a square and plumb base to build our upper slab upon. This can only be done after setting, trimming and squaring the tops of the Composite Pilings, developed by Pearson Pilings, which we set to their required dept.

The next step in our process is framing, shoring, bracing and setting pre-fabricated forms for pouring. We have developed a system to re-use our forms in the construction of our projects to help save time and construction costs which in

turn translates to savings for YOU, our client. GCMS always goes the extra mile to ensure strength and quality in every project. Although we do strive to beat deadlines we never rush nor “cut corners”. Once our shoring and bracing is in place the next step is to lay heavy plastic lining over the forms. This gives the underside of our concrete slab a much smoother finish and it ensures protection of our forms for future use and reduces waste.

Once this step is complete the next step is setting foam for our “light deck” application, the setting of our rebar, wire mesh and other metal work critical to our process. We have developed a system which ties in bottom wall plates, secures structure exterior walls to our slab and adds overall structural integrity to our projects. This saves time, strengthens our buildings and reduces construction costs. strives to streamline, find stronger, more innovative ways to build and deliver the highest quality buildings to our clients by pushing the technology available today to build tomorrows homes today.



Slab

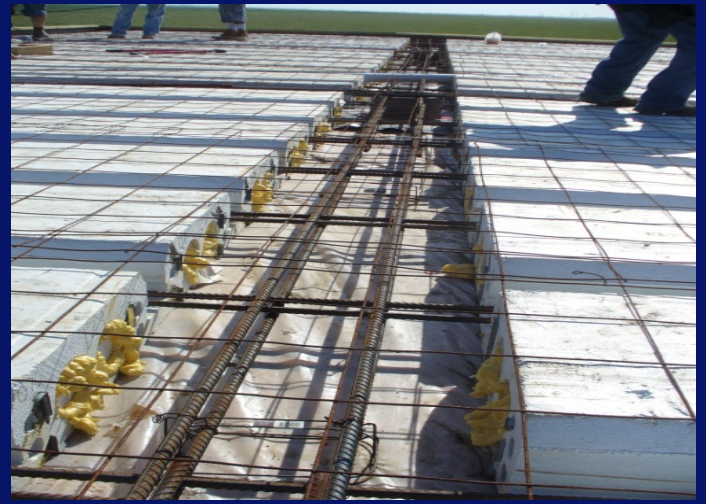
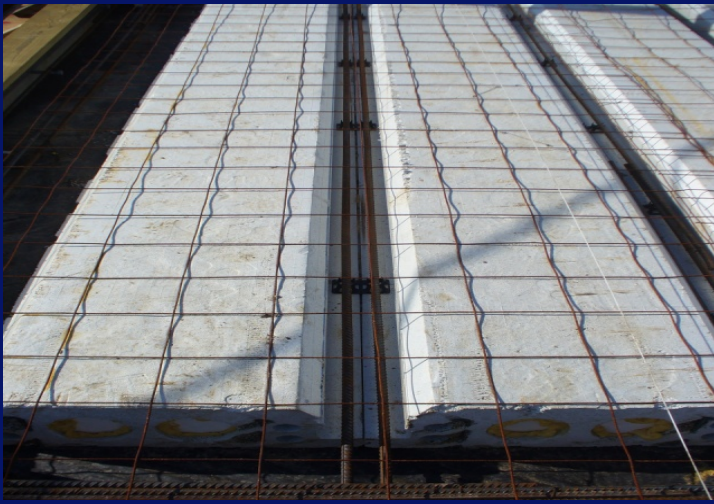
Once all hardware, foam, rebar, wire mesh and piping are placed we use high grade concrete with proper “add mixes” to insure the strongest possible finished slab.

Using our system ensures superior strength and completely ties all framing into our pilings and elevated slab. Engineering and building a in this fashion reduces weight, costs, wastage and cuts total. By planning our layout properly, we have found we can

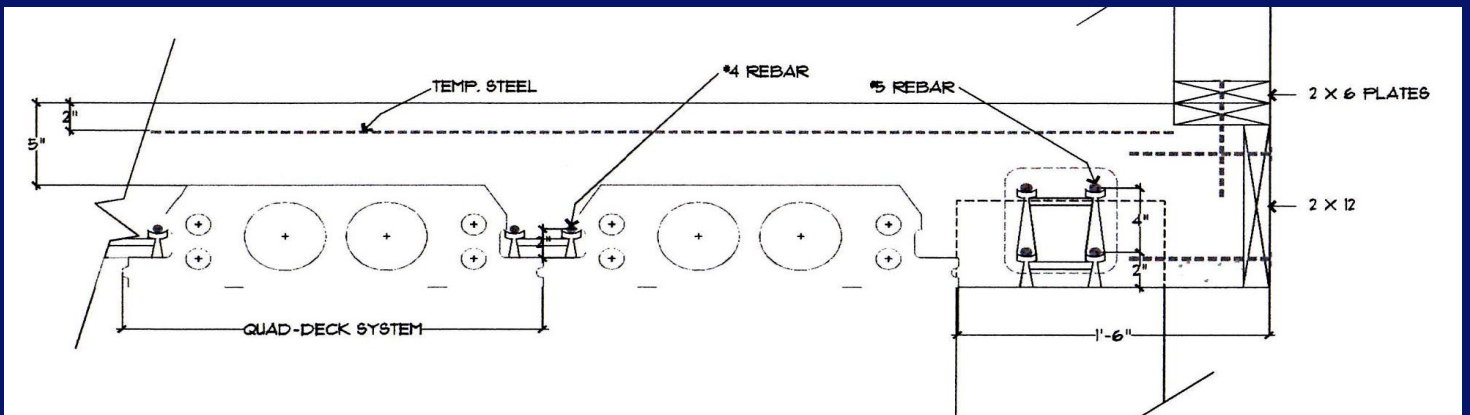


conceal all electrical and plumbing conduit and make our projects that much more eye appealing and give each new home a cleaner safer approach. We accomplish this by imbedding plumbing, water and conduit runs in our structural foam and running all lines through our pilings, so no lines are exposed on the exterior of our houses.





Hardware and foam placement



Drawing of hardware and foam placement

Elevated Slab Completion

Once concrete is poured and finished, curing time averages 21 days. Once set the shoring may be removed and forms taken down.





GCMS is always striving to find new ways to reduce costs and “stream-line” our building processes. Not only do we fabricate our own foundation forms on site but once our elevated slab has cured, we remove the forms, and they are used to form our exterior walls saving material and costs. The “form/wall” is built of 2"x 6" high quality lumber and we use 3/4" treated plywood for the “skin”. This “form/wall” is far superior, when building in coastal zones, and exceeds all standards set by the Texas Windstorm Committee, the Federal Government, FEMA and/or National Building Codes.



For additional information and bid requests please do not hesitate to call Peter Clark, 713-598-9480