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Swimming pool construction details dwg pdf

This site is not available in your country Adding a swimming pool to your backyard is a great project that requires a lot of planning, coordination and, let's face it, cost. Here are the numbers: Still interested in adding a pool to your home? In the video above, we follow the construction of a free form concrete pool from start to finish, including: Types of pool materials Pool design and layout Excavation of pool Pouring concrete for pool Troweling plaster jacket on pool Building a stone waterfall Landscaping around a pool Read episode article to find out more. Further information VIDEO TRANSCRIPT Danny Lipford: This is a very relaxing backyard, but it will be even more relaxed after this week's show. Announcer: Today's homeowner with Danny Lipford, the voice of home improvement, with projects, tips, and ideas to help you improve your home. This backyard might look a little familiar to you because we've recorded some segments over the years here. Segments including installing landscape lighting and some of our Around the Yard segments. The reason for that is that this is my home. And after years of great pressure from my children, I decided to install a swimming pool. Now I take you through the whole process of what I'm going through now and have to decide on the size pool, the shape of the pool, and what type and how much surface I will have around the actual pool itself. Also, we'll look at some other pool options, including a vinyl liner type system, which is pretty cheap. And also a unique hard-ed fiber glass pool that lets you fall into place with a crane. Now it may seem like a complicated process to install a pool, especially in a closed area like this, but we'll take you through it from start to finish in this week's show. This was my irrigation system in my backyard before the rough excavation on our pool began. Now, this can be a difficult time if you build a pool is when all landscaping and sidewalks are removed and you are left with only mud. Well, we're very ready to be ready for our pool contractor to start digging the new pool. Now, I've been on the other side of the coin in this kind of situation as a contractor, building an addition to someone's house and you just need a little patience and anticipating a bit of a mess before you start enjoying the improvements you're making to the house. Now one thing I'm very happy with is this area just seems so much bigger than before. This yard represents 15 years of landscaping projects, so there is enough trees, shrubs, and other plants to remove. In addition a portion of the retaining wall at the back of the yard had to come out, in order to create access for the heavy equipment. To get to that point we had to create a small road from the lower garden through the wooded area behind the house. A lot of work to dig a hole. Just like any home improvement, home improvement, time you spend is on planning and design. In this way, your project can be carried out exactly as you envisioned it. When I started thinking about what I wanted my pool to look like, I realized that there are many things to decide. First of all, a lot of it is dictated about how the space you have available. Now with everything wide open, a lot more space than I realized. Now, I could swim with a rectangular pool, just across the street from this area, and that would be perfect if I wanted to swim laps, wouldn't even be that deep. I also have an option, maybe to go with a different shape, a kidney shape pool that would kind of wrap around. Now some of the other considerations may imply your local building codes and restrictions, as that can dictate how deep your pool can be or how far from the house you place the pool. So make sure you check that before you start making too many decisions. Other decisions would include how much deck or how much landscaping you want around the perimeter of the pool. Have lots of landscaping, don't forget the irrigation to keep the plants nice and healthy. You might even want a sound system so that a few speakers sprinkled around might be a good idea. I realized that with all these decisions that needed to be made, I needed some help, so a few months ago I spent a lot of time with a landscape architect, Jim Crowe. Jim, I know you realize the size I have to work with for the new pool. What do you like best with the different arrangements you've come to work with here? Jim Crowe: Well, Danny, the free form pool works best, it just seems to give us a better space to work with. We are contrasting with the hard edges of the house a little better, and soften the lines with this free form pool. Danny Lipford: But it still leaves a lot of surface area around it, what I wanted for a table and chairs and stuff like that. Jim Crowe: It's doing well. We have some smaller spaces, of course, and we have some larger spaces; but it all seems to work really nice to give you plenty of space around your pool for features. Danny Lipford: Now we're talking about the shadow gazebo, and I wasn't really sure where I wanted it, but you positioned it here. Why did you choose to do that? Jim Crowe: Well, we choose it as a focal point from the window, and also we're trying to do some secondary screening here on this fence. We wanted a bit of that fence out there so we made our little atmosphere a bit cozy. Danny Lipford: Yes, that should work very well, especially to screen that ugly fence on the back. Now, I notice this puts you in something that we had talked about, the water feature, that would allow water to kind of drip into the pool. Will this work with the kidney design? Jim Crowe: Yes. We just take this idea of the pool function and we just take it and add it to this angle, and maybe design a little differently. But it will a beautiful water feature that will bring water into our large pool. Danny Lipford: Now I know you're going to help me select all these plants, and I think you should really think about it going around the pool when you make a selection about the plant. Jim Crowe: Well, we're looking for things that are low maintenance things that won't get thrown away in the pool, and we're looking for a variety of colors and textures that will help bring out that pool atmosphere. Danny Lipford: Man, this is going to be great, I can't wait for us to finish this. While Jim and I are working on the latest details, check out this week's Simple Solution. It's time for this week's simple solution from home repair expert Joe Truini. Danny Lipford: Pegboard is ideal for storing and displaying tools in a workshop. Joe has a way to improve that. Joe Truini: The only downside of pegboard is not everything in a workshop can be stored on a hook. So what I've decided to do is make a simple shelf out of a one by four. What I did I drilled a few holes in the back of the piece to accept some straight hooks from the pegboard system itself. I put the hooks in the back of the board, we put it right on the pegboard. Put it in a row. Previously I had lined these holes up, so I knew exactly where to drill them. Then you just slide the hooks in, it's angled back, so you have to press this shelf just to straighten out the hooks. Now you have a handy shelf for storing glue, and tape measure, and things you don't just hang on a hook. Danny Lipford: Well it's great to use that, also for things you're going to use all the time. Joe Truini: Right, because it keeps it readily available. That's why I drilled holes in the front edge for our screwdrivers and nut drivers on the top surface, and this way when you're ready to need a screwdriver, just pull it out. Danny Lipford: Well this is a cheap solution to this problem. And I think you'll build that as long as you want on your workshop wall? Joe Truini: Absolutely this one is about 30 inches and has two hooks, and just over 36 inches or so, you'd probably want to add a third hook right in the middle. Danny Lipford: Well, while you were away, a lot has changed in my backyard. My pool contractor completed the entire shell of the new pool. Now at any time you do every project around your home it's going to require destruction of time to make all the decisions so that everything turns out perfectly. Well if you're building a pool, you'll definitely want to allow a little time to watch the process, it's great. Using the drawings that our architect, Jim, provided that the pool contractor, Mike Whittington, could begin mapping the shape of Swimming pool. These flexible form boards served as guide posts for the start of the excavation. This was really the exciting part, when that big track hoe started to create shovels the backyard, because I knew the pool was starting to take shape. Operating this large machine in these close quarters was a pretty challenging task. The more detail sculpting the walls and pool bottom was done by hand. Mike's crew used a plywood template to make sure the wall down transition was consistent throughout the pool. When the depth and shape was good, it was time to prepare the concrete by laying the grid of steel reinforcement and tying it all together. This will strengthen the surfaces and prevent cracks. The specially formulated concrete came by truck and was transferred to a pump that pushed it through a large hose, up the hill, and into the backyard. The mouthpiece at the end of the hose added compressed air to the mix, creating a spray of concrete called shotcrete. Each area was slowly built up to the right thickness before the finishers took the concrete shape into the finished shape that would be our pool. The concrete that makes the pool shell is completely dry, so I can actually get the first in my family in the pool. But to get down into the pool you see how really big it is and how it is laid out. Actually this is the deepest part of the right where the drain will be, and I'm about 6 feet tall, so the water will be just slightly above my head at this point. You also have some of the features like the swim up step that we have, which will be perfect for swimming and getting out, or just sitting here and relaxing a bit. There's one, and there's one on this side. Later we will be building a small shade gazebo here, so this will be a nice place to relax. You may have seen this little channel going off on this side of the pool. What this will be once everything is completed, it will feature a mountain of rocks here where water will be entered on top, it will cascade along the front of the water right out into the pool. Now with the pump's water function turned off, this will be nice and quiet, with about six to eight inches of water here. When the pump is turned on, it will create the kind of ripple effect over the entire pool. Now the next step is to smooth these walls out a bit using a plaster that has a color integrated into it, so it will all be a nice bluish gray on the walls and bottom of the pool itself. But for that, our tiler will have to come along and install a layer of tile around the upper part of the pool, so bring the tiler. The tiles are held in place with mastic, which is trowel on the surface of the concrete. A board that is temporarily attached to the wall holds the tile perfectly straight and prevents it from slipping until all mastic dries. When the tile is dry, the grout is applied to complete the finished look. Meanwhile, the plumbing and pool filter just like the feet in front of the retaining wall behind the pool and the water feature. Since most of our materials are delivered to the lower yard, we are a compact tool to drag them through the forest to the campsite. We then prepare to pour the pool deck ourselves. A flexible foam shape wraps around the pool to contain the concrete and give it a smooth, rounded edge. As the concrete goes into the shapes they tapped to remove all the air bubbles that the finish could mar. When pouring a pool deck, it is important to avoid low spots so that the water is not on the finished surface. When the concrete is dry, we use a circular saw with a masonry knife to cut a pattern into the surface, giving this expanse of concrete a bit of character. Now speaking of character, look at this patch. The bright blue color is a bit scary at first, but the plaster crew assures me that it will dry up to a darker shade The spiked shoes these guys wear are also a bit scary, but it keeps them from damaging their work as they make their way around the pool. It's a slow process because it's all hand trowel work, but eventually the pool is ready for water. Now we can get our attention back to the deck. After a thorough cleaning, we have applied an acid stain to the concrete that transforms the surface from solid grey to a warm texture look. I can't believe how complicated building a pool like this has been, but we're getting close. When we come back we will give you the landscaping, the landscape lighting, outdoor speakers, and show how we are making progress on a very unique water feature that we put in. We'll also look at a few more cost effective options of getting a pool in your garden, but first our best new product of the week. Announcer: Let's team up with Danny at the home center to check out this week's best new product, brought to you by The Home Depot. Danny Lipford: Extended shower heads have really been the rage in recent years, and the showerhead manufacturers have responded, and now there are hundreds of them to choose from. Now one of the most popular type is the larger ones when mounted in the middle of the shower above you give that rainfall effect that everyone seems to keep. But in the past, you had to turn on a plumber's services to enter all that, but not anymore. This one from Waterpik called the AquaScape spa shower has the adjustable arm. That all you have to do to turn your simple shower into a spa as a shower is to remove your old shower head, then use the pipe tape that is included with this shower head and wrap it around the wires. Then you attach your adjustable arm and shower head, and then you're ready for that spa experience. This also has five different settings: one for a pulsating rain effect, another drenching rain, a water saving that gives only a little bit of water Then the center spray, and another that is a pulsating massage. Now everyone likes a lot of water pressure when you take a shower, and this one uses Optiflow technology that maximizes that water pressure. Maximizes. What a great project for this weekend. We drained the water level of the pool a bit so that the crew building our waterfall can complete all their work. Let's take a look at it. Now one thing we have completed, all of the landscaping, all the way around the pool and it has made such a difference. One thing we've tried on this that I've never used before is a recycled mulch material that is made of rubber tires. Now supposedly this will not float, which is very important with a bed so close to the pool, because if we have a heavy rain here. If you mulch that floats in the pool, never a good idea so we'll see how that works. Also, it's not decaying, so I won't have to worry about introducing another mulch into it in the next few years. Now this is a pretty complicated and expensive way to get a pool in your courtyard. There are much simpler ways and less expensive options. Vinyl pools are excavated in much the same way as concrete pools, but instead of spraying on concrete the sculpted earth is covered with a dry mix of sand and mortar that is wet in place and then smoothed with a trowel. The vertical walls of this style pool are made up of another material such as aluminum or treated wood, depending on the system being used. And then covered with a pad to protect the vinyl lining. The upper edge of the pool contains a channel where the vinyl lining is attached. These pools are usually half the cost of a concrete pool, but the shapes are limited to those of the manufacturer. For a slightly more expensive option there is the fiber glass pool. These pools are fully prefabricated before they arrive at a site. And the installation is usually quite quick because they are just lifted out of the truck and into place. This pool is a great option, but the logistics of delivery can limit the locations from where it can be installed or have a big impact on overall cost. At this pool, we're almost done. We need our painter to come along and put another coat of paint on our shade, our electrician has to come and install our landscape lighting. But the man who has the biggest job is Jack Willard, who brings together the puzzle that will eventually be our waterfall. Jack, if you approach something like that, how are you going to start? Jack Willard: Well, you really need to know what the customer is looking for. What size restrictions they have, and frankly how much money they want to spend on it. Danny Lipford: Sure. yes, I know that's a big part of it. And, of course, I looked through all sorts of magazines and found a picture that was close to what I wanted. I think that's probably a good idea for homeowners to at least show something. Jack Willard: Gives us something to start with. Danny Lipford: OK. Now you have a lot of yesterday cinder blocks put in here. What purpose does that actually serve? Jack Willard: This us a foundation without using all the stones. We could have used rocks, but we would have used everything and it would all have been hidden. This case we use ugly old blocks that will be covered anyway. Danny Lipford: OK, and a little less expensive than using the stones. It can be quite expensive because they are kind of hard to come by and they are very heavy and when you have a heavy building material it really starts getting expensive. Jack Willard: That's right. Danny Lipford: Now, you have a variety of different shapes and sizes here. I think that's really necessary to get that natural look to the waterfall. Jack Willard: That's right, in nature everything is not exactly the same, and no two waterfalls are exactly the same. The stones aren't numbered, so it'll look different than anything you've ever seen. Danny Lipford: OK. Later, I think you start at the bottom and keep building it, you've got the water main here. How do you deal with that when the waterfall is ready? Jack Willard: As far as on top? Danny Lipford: Right. We're going to go a few different directions and then we're basically going into different waterfalls. You end up with multiple actual falls - some bigger, some smaller - and that gives you different sounds when the water falls into different puddles of water. Danny Lipford: I see, ok. I think this is just an artistic effort, just work with it a little bit and keep going. Jack Willard: Very much so. Danny Lipford: Well you have a lot of work to do here. While Jack and his crew are packing up the water feature, let's take a look at

this week's Around the Yard tip. Announcer: Let's head out for Around the Yard with lawn and garden expert Tricia Craven Worley brought to you by TimberTech composite deck. Danny Lipford: You know you're so lucky to live in Southern California where you grow oranges, grapefruit, limes right in your garden. That's great. Tricia Craven Worley: Oh, well, I enjoy it, and I really enjoy my fruit every day. This morning I had a grapefruit and apart from filling my belly and making me feel completely healthy I have a really helpful tip how to use it. Danny Lipford: This looks pretty cool. Tricia Craven Worley: Well, this is a fruit pot. Literally, a fruit pot. What I did after dinner is that I scooped the peel and everything out, and this is going to be a really fantastic biodegradable pot that you put right in the ground. Danny Lipford: Well, between the time you plant it and the time you put it in the ground, you might be doing it in the windowsill, something like that? Tricia Craven Worley: Well, actually you could do that, but I'd rather put it in a tray, because I put some little crevices in the soil to help with the drainage. And then even when it finally goes into the ground, it will help to break down a little faster to biologically. So that's why I keep it in tray, so if I water it, it will And also if this pot starts to break down, it can tend to be a little smelly, and it may tend to lose a little bit and whatever, but that's all part of the process. So if I take it outside, it's really ready to go. Danny Lipford: Well, since you have so much fruit, Maybe I can sneak a little of this into my suitcase, right? Tricia Craven Worley: Danny! Danny Lipford: Like many home improvement projects, the pool took a little longer than I wanted, but everything is complete and we are already having a lot of fun. My main concern at the beginning of this project was if I had enough space here for a pool, but I had more than I realized. The pool is just the right size and shape. The sound of my little waterfall is so relaxing, and it's not bad to watch. The gazebo we added makes for a nice shady, focal point. And we accentuated the new landscaping with outdoor lighting, and a few speakers that blend directly into the landscape. After a pool is finished, I found out it didn't take long for the neighbors to find out. But that's exactly what we wanted, a place that our kids would feel very comfortable inviting some of their friends about, and a place that my wife and I could also entertain. And the good thing is, I walk out my back door and feel like I'm on vacation. Hey, thanks for following along with one of my home improvement projects, and I hope we've been able to share a few ideas you use when you're thinking of adding a pool to your backyard. I'm Danny Lipford, we'll see you next week. Tune in next week for an insiders looking for anything new to your kitchen and bath. Announcer: If you want to buy a videotape or DVD copy of this week's show, visit our website at dannylipford.com, or call us at 1-800-946-4420. 1-800-946-4420.

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