



## CERTIFICATE OF APPROPRIATENESS APPLICATION FORM

Incomplete applications will not be processed for Commission review.

Please print legibly.

**1. HISTORIC NAME OF PROPERTY OR HISTORIC DISTRICT: (if known)**

Sherman Park

**ADDRESS OF PROPERTY:**

2768 N Sherman Bl, Milwaukee, WI 53210

**2. NAME AND ADDRESS OF OWNER:**

Name(s): 2768 N SHERMAN LLC

Address: PO BOX 250780

City: Milwaukee

State: Wisconsin

ZIP: 53225

Email: Travis.L.Brown@milwaukee.gov

Telephone number (area code & number) Daytime: 414-286-2830

Evening: 414-839-5923

**3. APPLICANT, AGENT OR CONTRACTOR: (if different from owner)**

Name(s): Travis Brown Sr.

Address: 2768 N Sherman Bl

City: Milwaukee

State: Wisconsin

ZIP Code: 53210

Email: Travis.L.Brown@milwaukee.gov

Telephone number (area code & number) Daytime: 414-286-2830

Evening: 414-839-5923

**4. ATTACHMENTS: (Because projects can vary in size and scope, please call the HPC Office at 414-286-5712 for submittal requirements)**

**A. REQUIRED FOR MAJOR PROJECTS:**

Photographs of affected areas & all sides of the building (annotated photos recommended)

Sketches and Elevation Drawings (1 full size and 1 reduced to 11" x 17" or 8 1/2" x 11")  
A digital copy of the photos and drawings is also requested.

Material and Design Specifications (see next page)

**B. NEW CONSTRUCTION ALSO REQUIRES:**

\_\_\_\_\_ Floor Plans (1 full size and 1 reduced to a maximum of 11" x 17")

\_\_\_\_\_ Site Plan showing location of project and adjoining structures and fences

**PLEASE NOTE: YOUR APPLICATION CANNOT BE PROCESSED UNLESS BOTH PAGES OF THIS FORM ARE PROPERLY COMPLETED AND SIGNED.**

5. DESCRIPTION OF PROJECT:

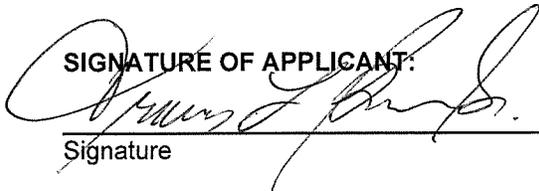
Tell us what you want to do. Describe all proposed work including materials, design, and dimensions. Additional pages may be attached.

Project 1:

1. We will also be making a 12x14 pergola inside the new patio that will be made. The pergola will have 4 columns on each corner and a cap. The placement and measurement of the pergola will be followed as shown on the landscape plan provided by owner. The blocks that would be used for the columns would be clay brick or concrete brick.
2. We will be building a patio in the backyard using the measurements as described on the plan that was provided by the owner. The patio will be made with pavers, the process will consist of us digging down 15 inches and refilling with ¾ inch limestone, compacting every 3 inches, then laying down a layer of sand to level out surface and then begin to lay down pavers. We will finish it by laying down polymeric sand to give it the finishing touch. The pavers that would be used for the inside of the new patio would be clay brick or concrete brick.
3. We will be removing the concrete sidewalk and steps from alley to the city sidewalk.
4. We will be removing and rebuilding the concrete sidewalk that goes the front porch to the city sidewalk. The steps that connect those sidewalks will also be removed and rebuilt. The new sidewalk that will be rebuilt will be 4ft x 38ft. The new steps will be 4ft wide as well. We will also be removing and rebuilding the sidewalk that goes from the porch to the alleyway. The new sidewalk that we will build there will be made 3 ½ ft. x 150ft. We will be using the same pavers used on the back patio to rebuild the sidewalk.
5. A fire pit will be made on another side of the patio as well following the measurements and placement as shown on landscape drawing provided by owner. The blocks that will be used for the fire pit would be clay brick or concrete pavers.
6. We will also be making a seat wall on the edge of the patio by the where the fire pit will be made. The wall will be 8' 4" on one side and 6' 4" on the other. There will be a column on each end of the wall. The columns will be about 2 blocks higher than the wall and they will have a cap. The blocks that we will use for the wall and column will be either clay brick or concrete pavers.

Project 2: *SEE ATTACHMENTS*

6. SIGNATURE OF APPLICANT:



Signature

Travis Brown Sr.  
Please print or type name

4/03/17  
Date

This form and all supporting documentation **MUST** arrive by 12:00 noon on the deadline date established to be considered at the next Historic Preservation Commission Meeting. Any information not provided to staff in advance of the meeting will not be considered by the Commission during their deliberation. Please call if you have any questions and staff will assist you.

**Hand Deliver or Mail Form to:**  
Historic Preservation Commission  
City Clerk's Office  
200 E. Wells St. Room B-4  
Milwaukee, WI 53202

PHONE: (414) 286-5722

FAX: (414) 286-3004

[www.milwaukee.gov/hpc](http://www.milwaukee.gov/hpc)

Or click the **SUBMIT** button to automatically email this form for submission.

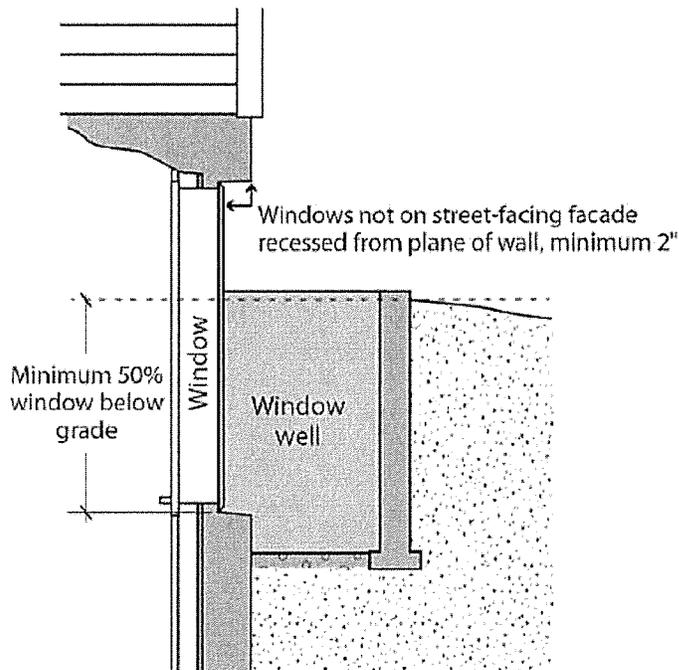
**SUBMIT**

1. For security purposes, glass block windows would be installed on the north, south & east side of the property. Home has been broken into 2 times in the past 3 years. The glass block windows would be according to:

Title 33, Planning and Zoning  
3/1/16

Chapter 33.445  
Historic Resource Overlay Zone

**Figure 445-1**  
**Basement Windows Replacement**



2. On the West side of the unattached garage, for security purposes, would like to replace the two above grade windows.

**Project 3:**

1. At the Northeast corner of the property, the rear window would be made into an egress to allow a secondary exit for basement area according to local building code.

**Project 4:**

1. A fence will be constructed around the perimeter of the home from the Southwest corner to the Southeast corner of the property; from the Southeast corner to the garage; from the Northeast corner of the garage to the Northeast corner of the property line; from the Northeast

corner of the property line to the Northwest corner of the property line; and from the Northwest corner of the property line to the Northwest corner of the building. (See attached photo)

PROJECT #1

# Map Milwaukee: Property Information

City of Milwaukee, Wisconsin



### - Legend -

- House numbers
- Milwaukee parcels
- Street names 10,000
- City limits
- Freeways 4,000
- Freeways
- Exit ramps
- Entry ramps
- Ramps
- Major streets 4,000
- Streets 4,000
- Street names 10,000

### - Notes -



PROJECT #2

# Map Milwaukee: Property Information

City of Milwaukee, Wisconsin



### - Legend -

- House numbers
- Milwaukee parcels
- Street names 10,000
- City limits
- Freeways 4,000
- Freeways
- Exit ramps
- Entry ramps
- Ramps
- Major streets 4,000
- Streets 4,000
- Street names 10,000

### - Notes -



PROJECT #3

# Map Milwaukee: Property Information

City of Milwaukee, Wisconsin



### - Legend -

- House numbers
- Milwaukee parcels
- Street names 10,000
- City limits
- Freeways 4,000
- Freeways
- Exit ramps
- Entry ramps
- Ramps
- Major streets 4,000
- Streets 4,000
- Street names 10,000

### - Notes -



Poster #4

# Map Milwaukee: Property Information

City of Milwaukee, Wisconsin



### - Legend -

-  House numbers
-  Milwaukee parcels
-  Street names 10,000
-  City limits
-  Freeways 4,000
-  Freeways
-  Exit ramps
-  Entry ramps
-  Ramps
-  Major streets 4,000
-  Streets 4,000
-  Street names 10,000

### - Notes -



Thank you for choosing MyPatioDesign.com for your hardscape design. The information in your download will be very helpful in determining material quantities, project costs, color selection and most of all the layout itself.

### **Material List**

The quantities identified in your material list are estimated, based on industry guidelines for this project and are actual, meaning no additional material was included for scrap. In some instances the dealer may only sell products by preset quantities, such as by skid or strap quantities only. Check with your local dealer to see how they sell their material.

MyPatioDesign.com or any of it's affiliates will not be held responsible for surplus or shortage of material listed on the above material list. Please verify the above quantities yourself for accurate purchasing.

### **Lots of Information**

Our website has lots of resources that can be valuable to your project. On the main navigation menu of our site, you'll find:

- *Hardscape Accessory Plans* - In addition to our patio plans, we also provide downloadable plans for grill stations and outdoor kitchens, fire pits and outdoor fireplaces, pergolas and entrance steps. These are the same hardscape accessories we use in some of our pre-designed patio plans.
- *Custom Designing* - If you need to alter a patio design or custom design a hardscape accessory.
- *How-to Articles* - We cover a large array of topics that will greatly assist you in your patio installation. Specifically if you have never installed a paver patio, you may be interested in reading our articles on "How to Install a Paver Patio", "How to Install a Paver Patio Over Concrete" and "How to Install a Paver Patio Over Concrete and Beyond".
- *Pavers and Paver Patterns* - Our plans are creatively designed so you can use any paver or paver pattern you like. Although we include some patterns in this download, please feel free to use another that best fits your style and taste. If you have never used one of these guides, please refer to our Paver Pattern Page on our website for assistance to understanding them.
- *Ideas on the Blog* - We'll keep you up to date with all of the latest hardscape news, designs, articles and ideas to improve your outdoor living.
- *FAQ's* - If you are searching our website and can not find an answer to a question, you might check out our Frequently Asked Question page. It covers a lot of answers to a lot of questions.

### **Terms and Conditions**

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Once again, thank you for choosing MyPatioDesign.com.

Respectively

Steve Combs, President

**MyPatioDesign.com**

plan no.

Patio-Design-1177

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**Questions:** 513-316-3887 or [designer@mypatiodesign.com](mailto:designer@mypatiodesign.com)

## General Installation Notes & Suggestions for Paver Patios & Walkways:

- 1. Soil Identification** – Understanding the soil type the paver project is resting on will assist you in determining the amount of base that will be necessary to eliminate settling. Well drained soils in warmer climates require less base than continually wet or weak soils in colder climates.
- 2. Layout and Excavation** – Determine where the patio will be located considering the dimension origins on the drawing. Layout string can be used to frame the outside of your project, remembering the 3-4-5 right angle rule to keep the frame square. Locate the corners and center of all the radii, using marking paint layout the patio. Establish finished patio height and subtract paver, bedding sand and base thickness to determine the excavation depth.
- 3. Subgrade Compaction** - Once excavation is completed, compaction of the subgrade is necessary. Compacting will increase the soil's load bearing strength; prevent pavement settlement/rutting; reduce seasonal movement and help ensure that any movement is uniform.
- 4. Patio Slope** - You must make sure that the water run off travels away from your foundation. MyPatioDesign.com recommends 1" of fall for every 8' of project. Check with your local building department to determine slope for your area.
- 5. Base** – The heart and soul to all paver projects. Install the base, compacting in 3" lifts. When nearing completion, begin to fine tune the surface, filling low areas and removing high ones. A properly finished base will have the finished slope established and be parallel with finished paver surface. MyPatioDesign.com recommends using a minimum of 6" of crushed limestone compacted at 3" lifts for pedestrian applications.
- 6. Bedding Sand** - MyPatioDesign.com recommends using a maximum of 1" of coarse sand for the bedding layer. This can be accomplished by laying out ¾" – 1" galvanized steel electrical conduit parallel to one another and with a 2 x 4 screed the sand over the conduit. This layer of sand should not be compacted.
- 7. Paver Installation** – Knowing where to begin the chosen pattern will help reduce and in some instances eliminate cutting along the perimeter of your paver project. Once determined, begin to lay the soldier and sailor courses following with the patterned field pavers. Cut the necessary pavers and install the paver restraint around the perimeter of the paver project. All pavers should have two passes of the plate compactor over them prior to fill the joints with joint sand.
- 8. Joint Sand** – After compaction, spread and sweep a dry joint sand into the paver joints. MyPatioDesign.com recommends using polymeric sand for the sand joints to prevent weed growth, insect infestation and sand run off. Compact again and sweep until the joints are completely full.
- 9. Seating Walls, Columns & Grill Stations** - All block courses including caps should be bonded one to the other using a professional concrete adhesive.
- 10. Fire pits & Fireplaces** - All block courses including caps should be bonded one to the other using a professional concrete adhesive. There must be an insulator between the burn area of your project and the block. Insulators may include, but not limited to galvanized steel rings for round fire pits and fire brick for fireplaces.
- 11. Retaining Walls & Steps** - The cap units for retaining walls and steps should be bonded to the retaining wall block using a professional concrete adhesive.

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## Choosing a Paver Contractor for Your Patio Project

Choosing the right paver contractor to install your paver patio can be a challenge. There are a number of questions you should have answered before you commit to a contract.

Here's a few things to consider when deciding who you'll choose to install your paver patio.

Before your first meeting have in mind how you intend to use your patio and a budget. Do your patio ideas include a paver patio for entertaining? A fire pit or barbeque grill station? Do you need a retaining wall to keep you patio level? Budgets are important because they give a contractor guidelines to work within. **The more information you're able to give your paver contractor the better he'll be able to plan your patio project and provide you with an accurate cost of your paver patio.** If you have photos of patio ideas you like keep those available too.

In the initial meeting you will want to find out as much as you can about the paver contractor. Below are some questions you should ask:

- How long have they been installing paver patios similar to your?
- Do they have a list of references? It is a great idea to call these references and if possible get permission to go see these projects and talk to their customers.
- Paver base preparation is a key factor in every paver project. Ask them how they handle the base preparation. Drainage is also a key factor in every landscape job. Ask them how they plan to handle the drainage.
- Do they offer design services?
- What is their paver training background? How are their employees trained? Do they attend manufacturer training sessions?
- What warranty do they offer? Do the products they recommend have a warranty?
- Have they provided you with any manufacturer's literature and paver pattern options?
- Will subcontractors be used on your paver patio? Who are they and how long has the paver contractor been using them?
- Do they have liability insurance and are they covered by Workers Compensation? Don't let a paver contractor's inexperience, mistake or accident be your responsibility.
- Are there any permits required for this job? Whose responsibility is it to get these permits?
- What is their timeline and schedule for installing your paver patio? Will the crew that is working on your job be working on another at the same time?
- If your paver patio needs a retaining wall does it need engineered due to the soil conditions or unusual loading conditions?
- What is their clan-up routine?
- Do they have a website?

**Research the reputation of the contractor you're considering.** Call their references, check the Better Business Bureau and view recent portfolios.

When receiving an estimate be sure to **GET IT IN WRITING**. Be specific on all your wants and needs to avoid lots of unexpected extras adding up the cost at the end. Don't forget to get detailed warranty and guarantee information which could save you money in the future.

When comparing paver patio estimates from different contractors review the cost breakdowns carefully. **Make sure you're getting quotes that are based on the same work and materials.** Differences in brands, plant sizes and installation procedures can adjust pricing. Also, be sure to verify that all the preparation and clean up routines are similar.

**Ask questions.** Your goal is to find a contractor who is experienced at installing paver patios similar to yours. Don't be intimidated to request more information to ensure you understand exactly what is being done and what the final cost of your paver patio will be. A legitimate contractor will be very happy to confirm that you're comfortable with your arrangement.

Remember, do your homework and enjoy your patio!

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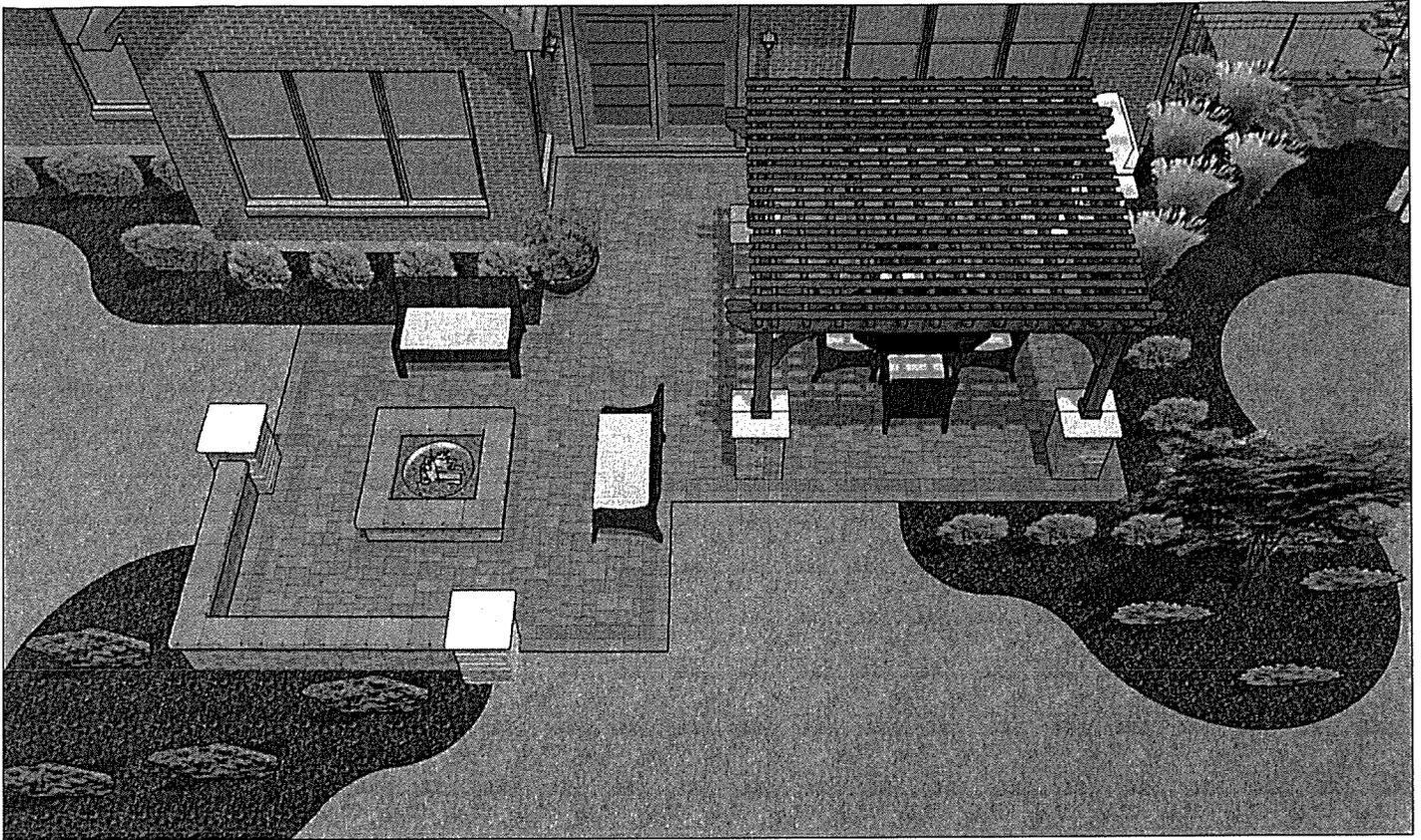
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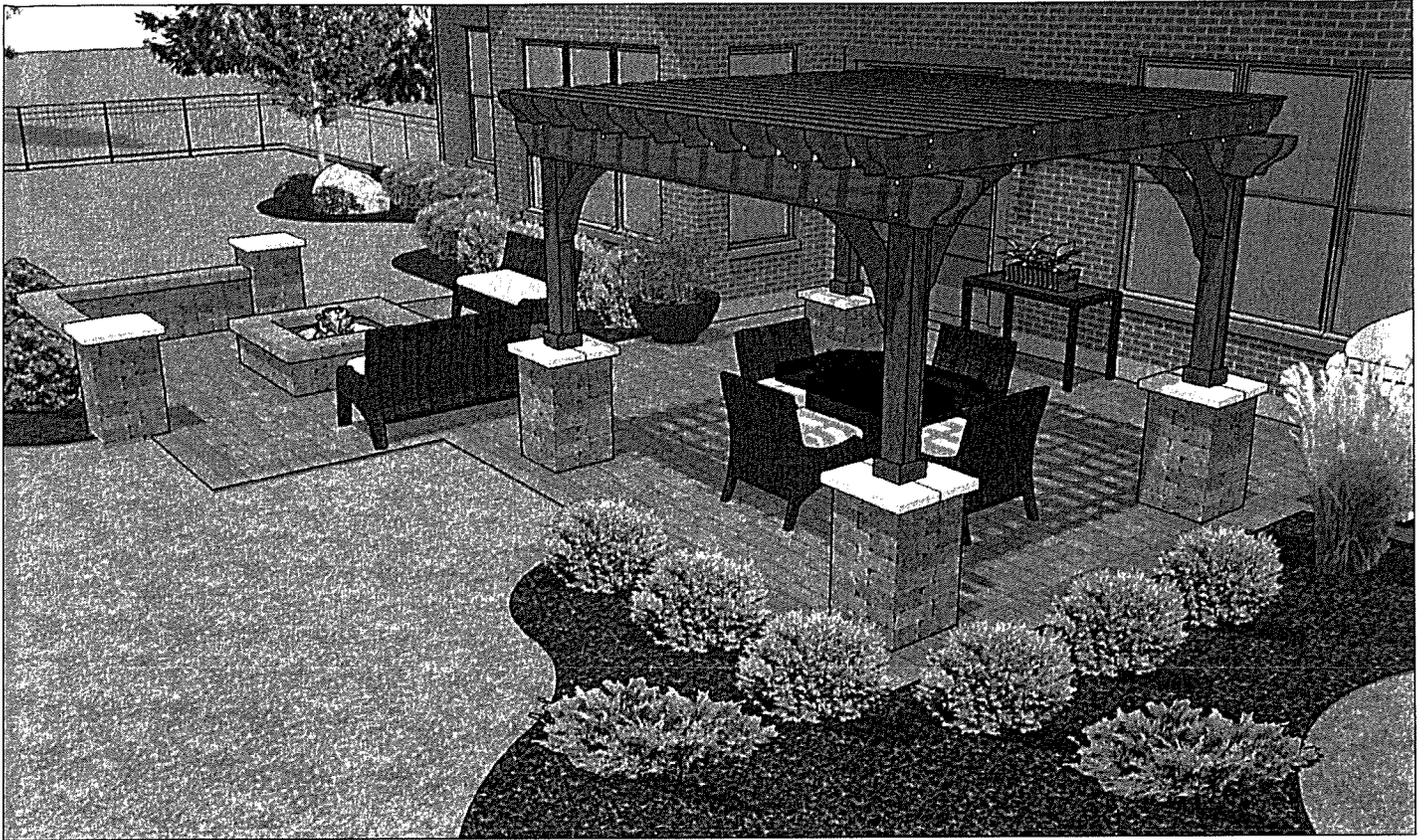
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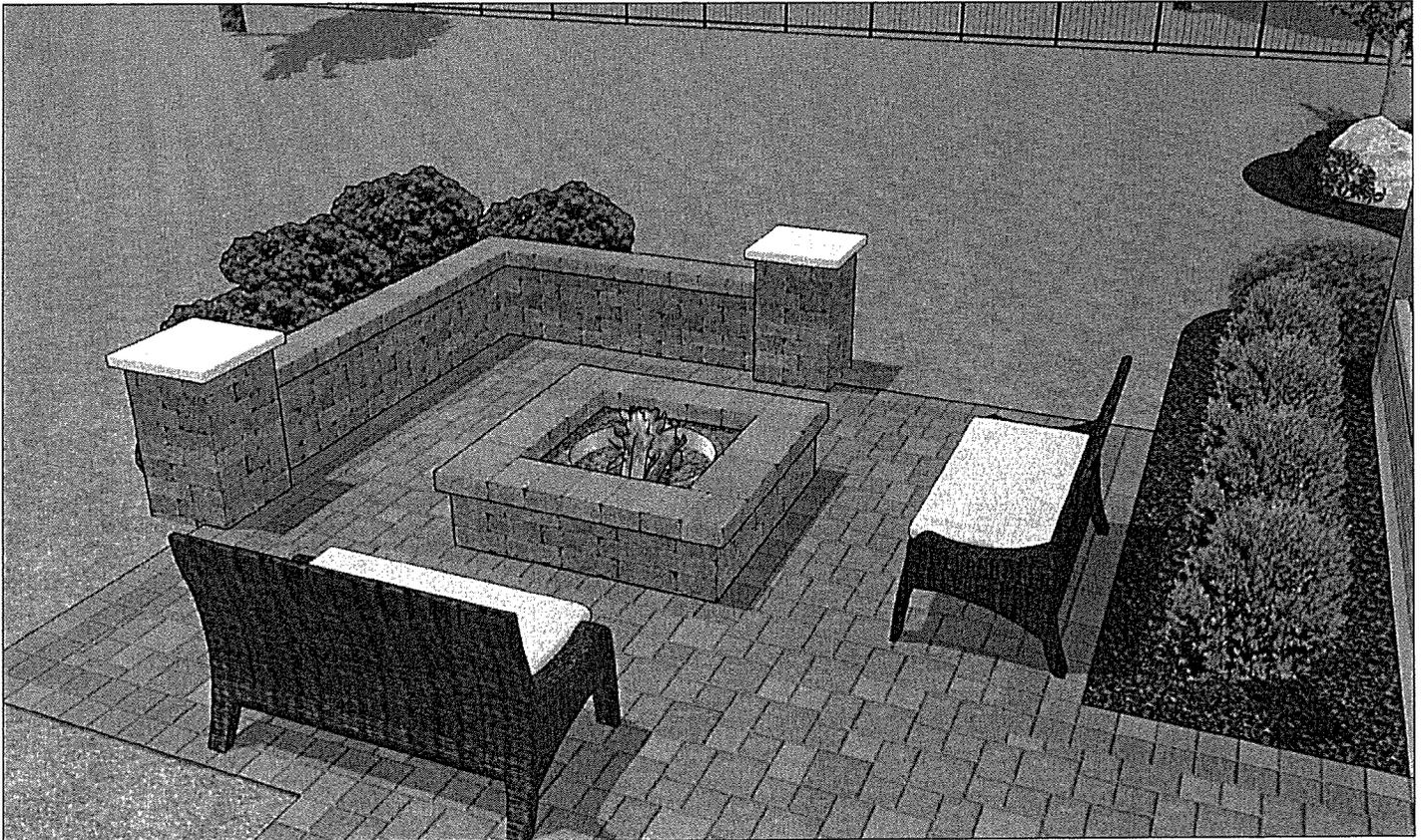
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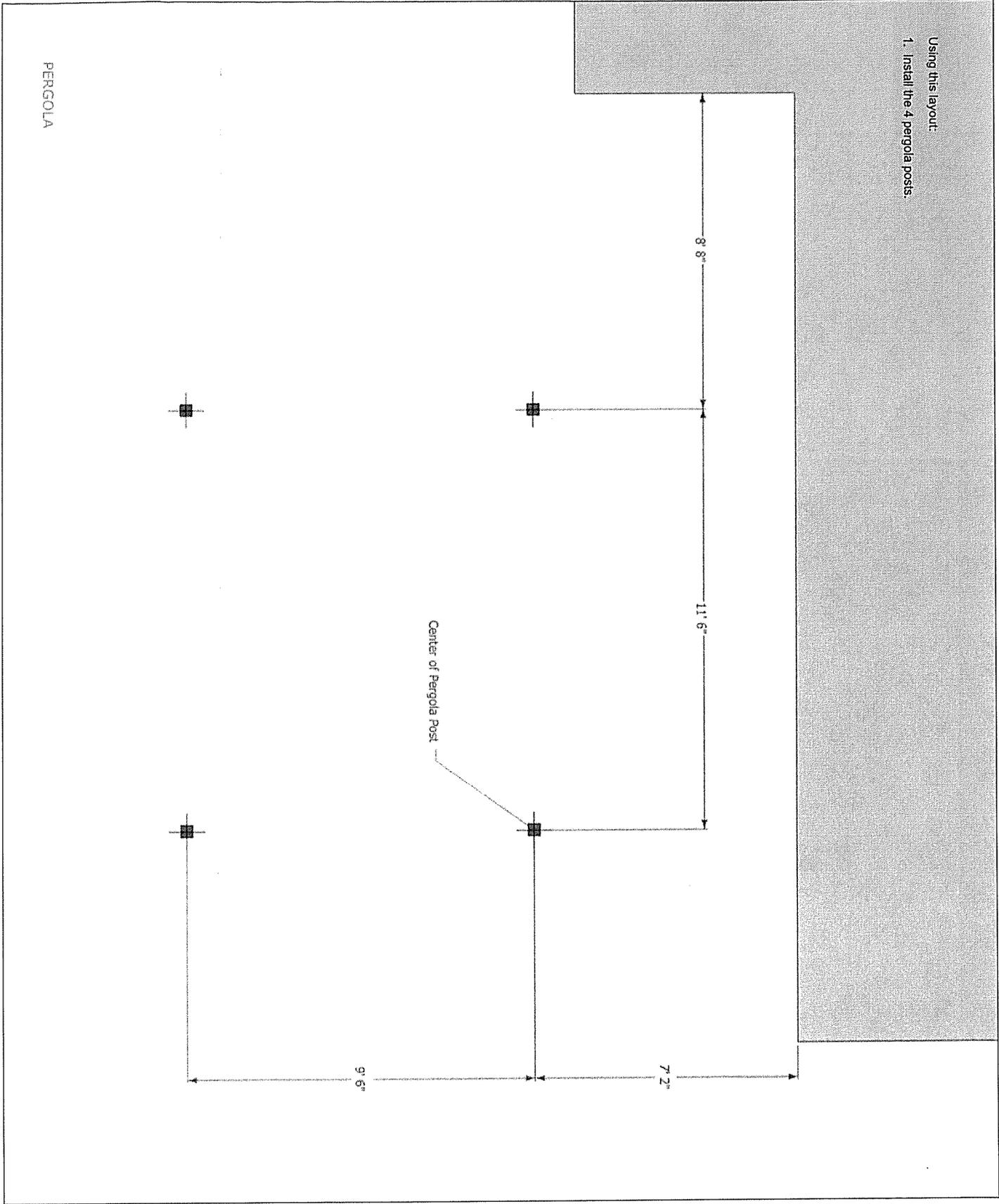
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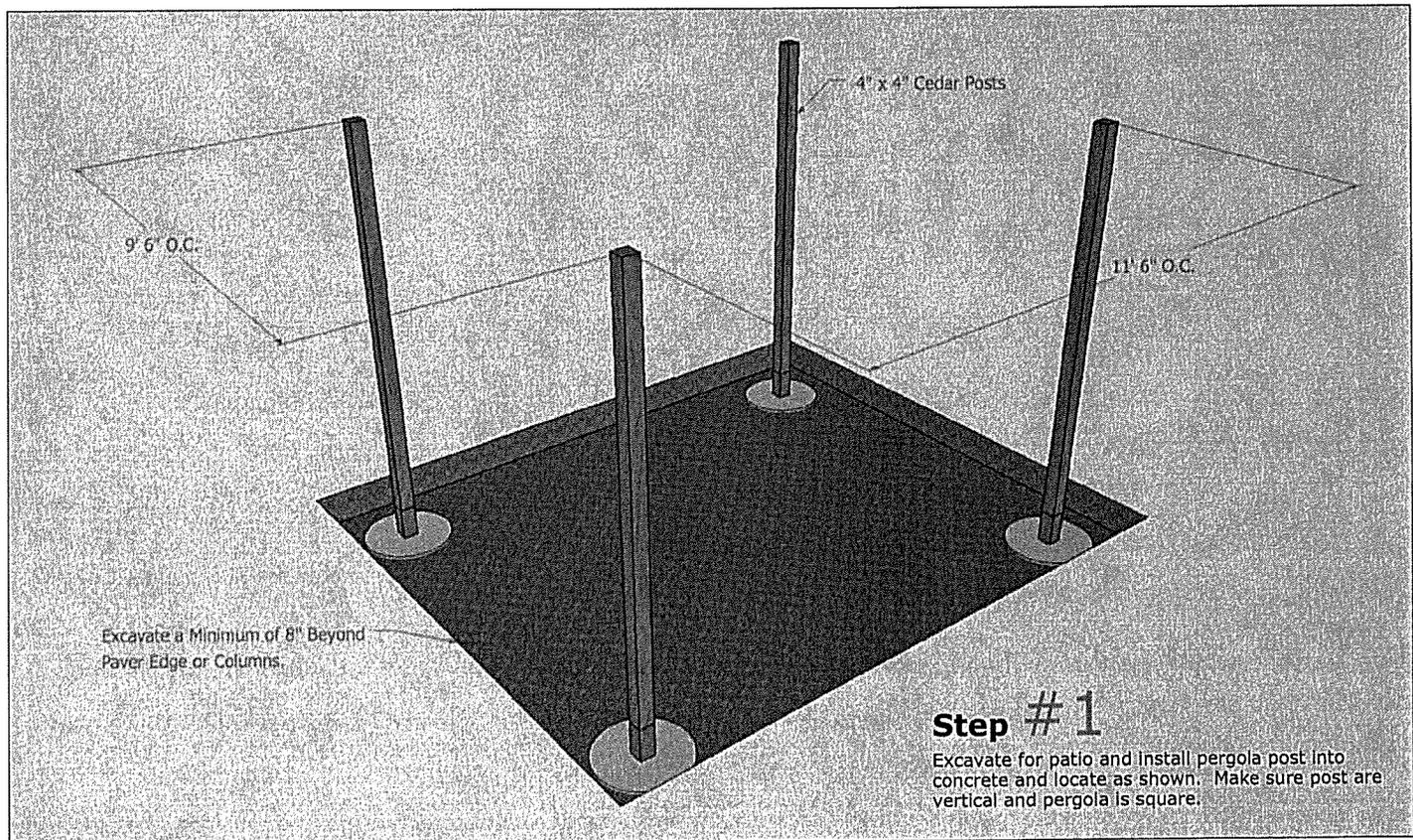
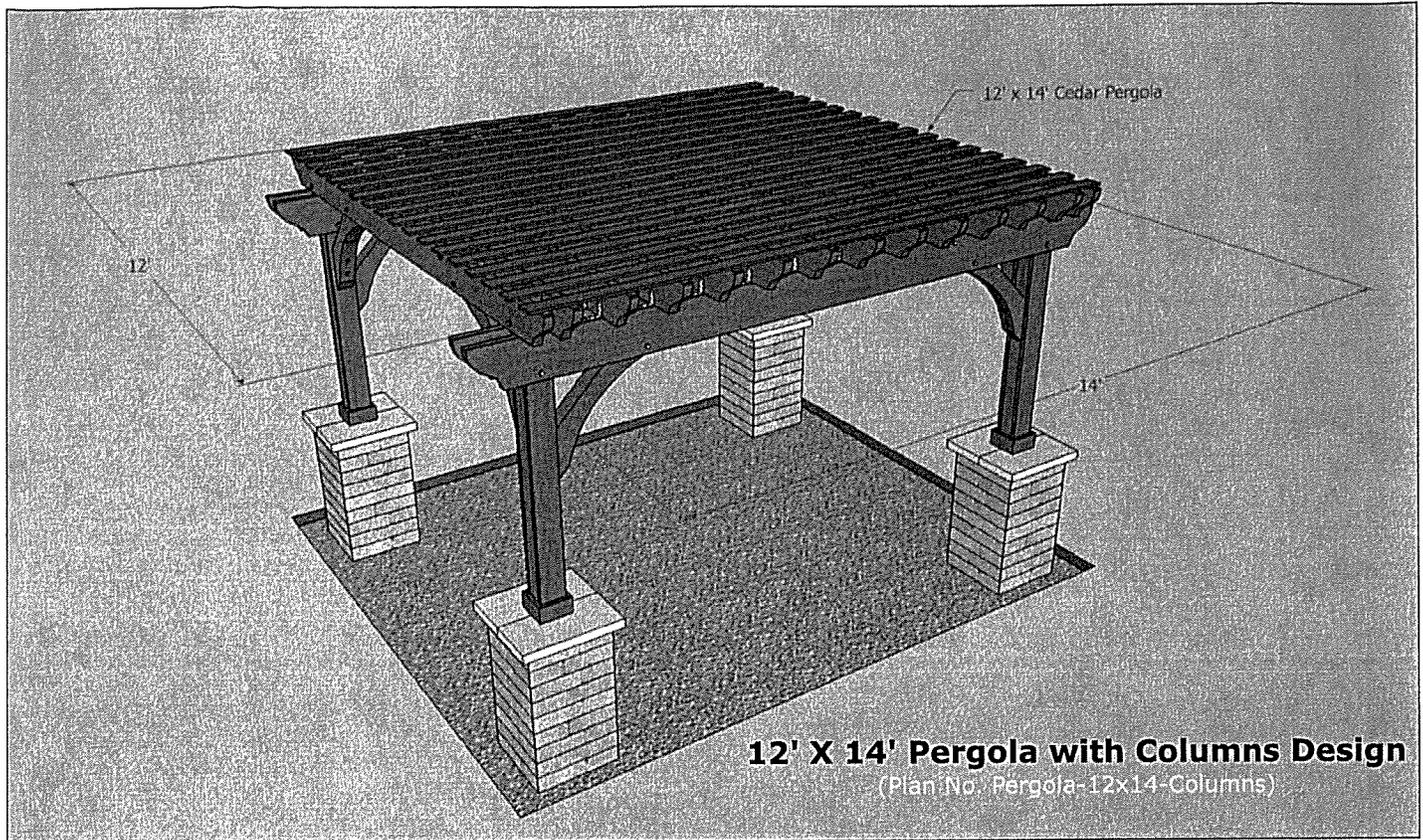
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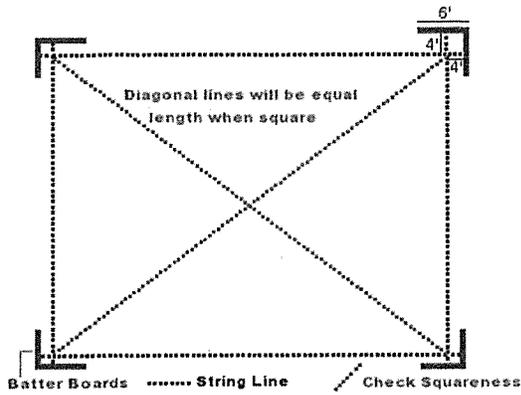
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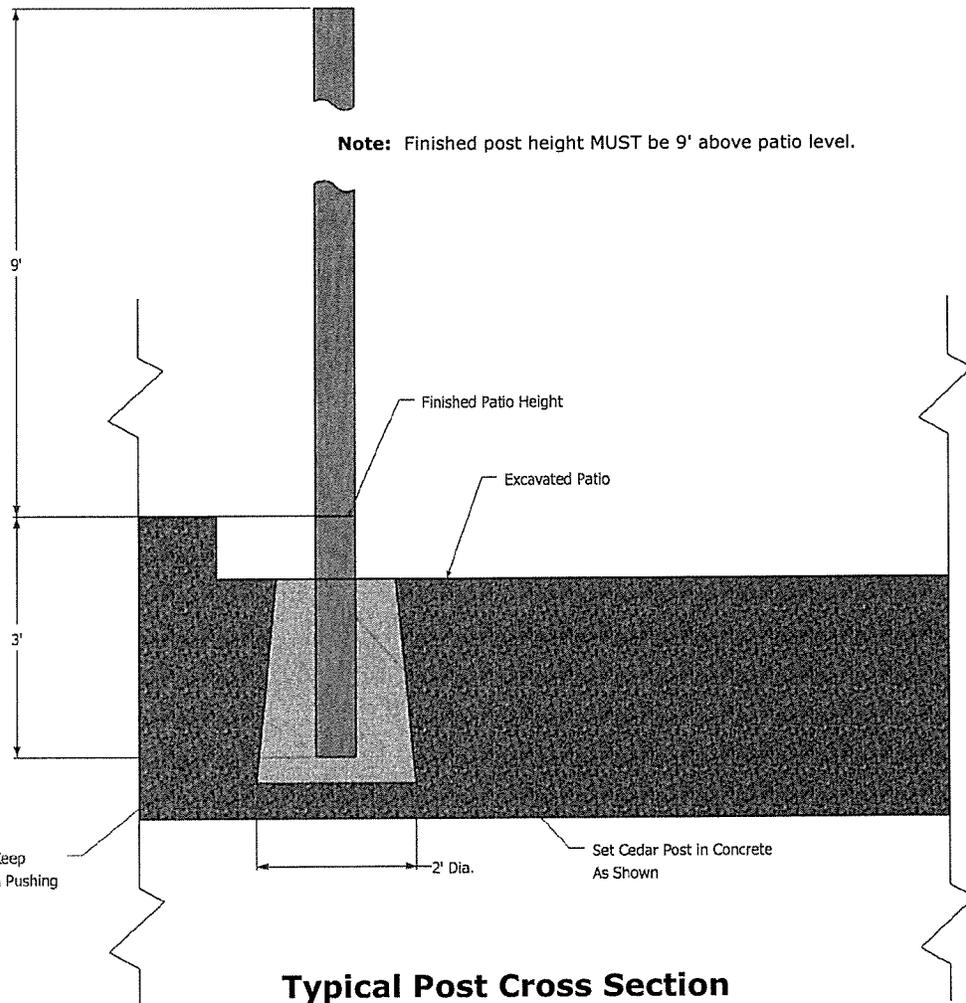


# PERGOLA



## SQUARING A PERGOLA

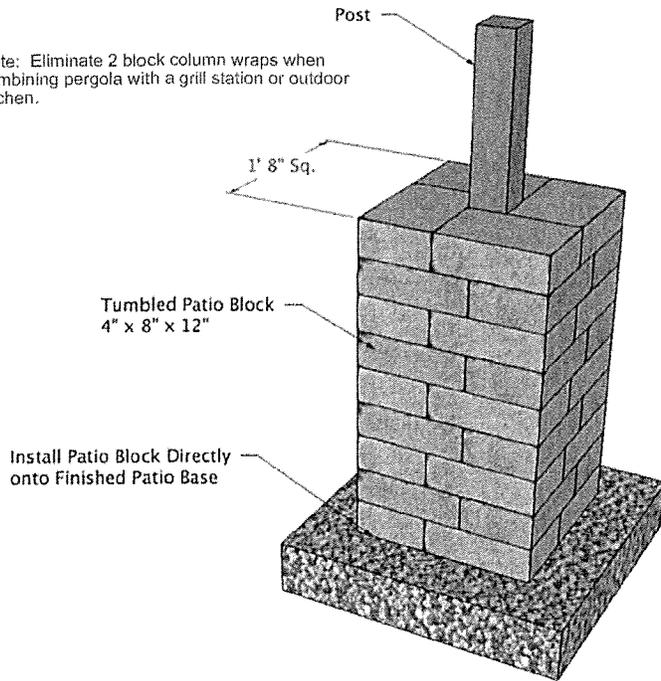
To square up the pergola lines measure from left front corner to right rear corner. Then measure from right front corner to left rear corner. The pergola is square when these two measurements are equal length. See the diagram to the left for reference.



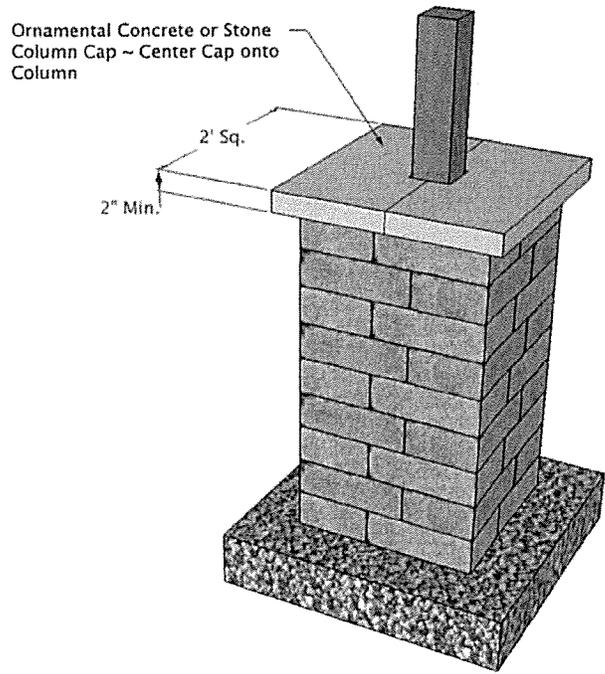
**Typical Post Cross Section**

# PERGOLA

Note: Eliminate 2 block column wraps when combining pergola with a grill station or outdoor kitchen.



**Block Installation**



**Cap Installation**

## Step #2

Install patio base to proper grade.

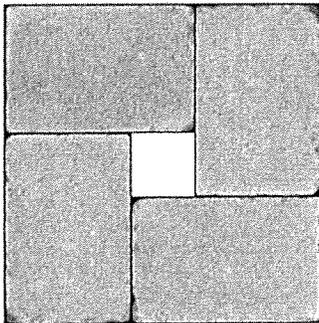


**Built Using Tumbled Patio Block**

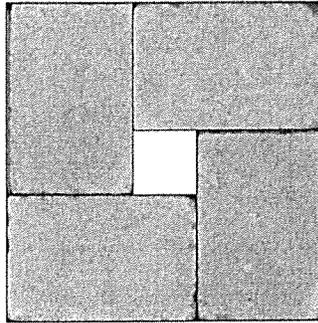
4" T x 8" D x 12" L

## Step #3

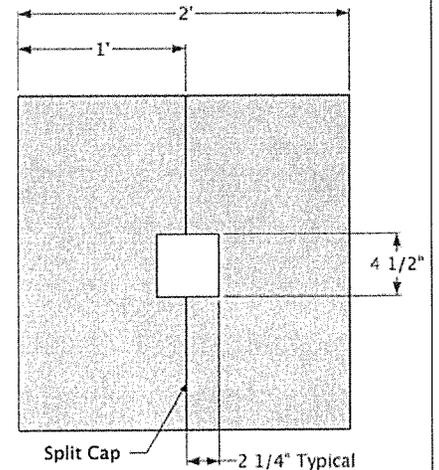
Wrap post with block as shown, alternating courses A & B until column reaches desired height. Modify solid post cap as shown to fit around post. Bond all block courses, including cap, one to the other using a professional masonry adhesive.



**Course A**

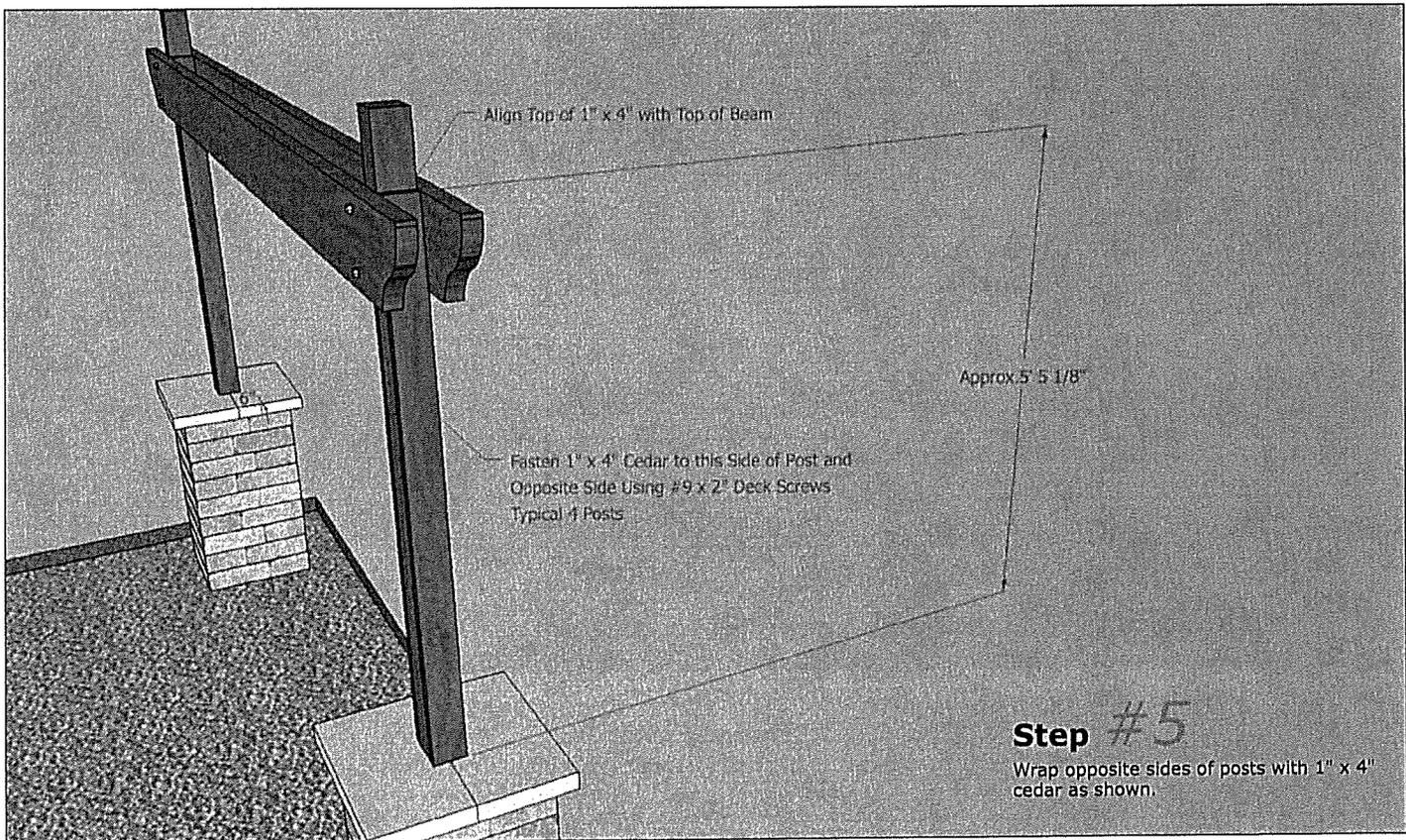
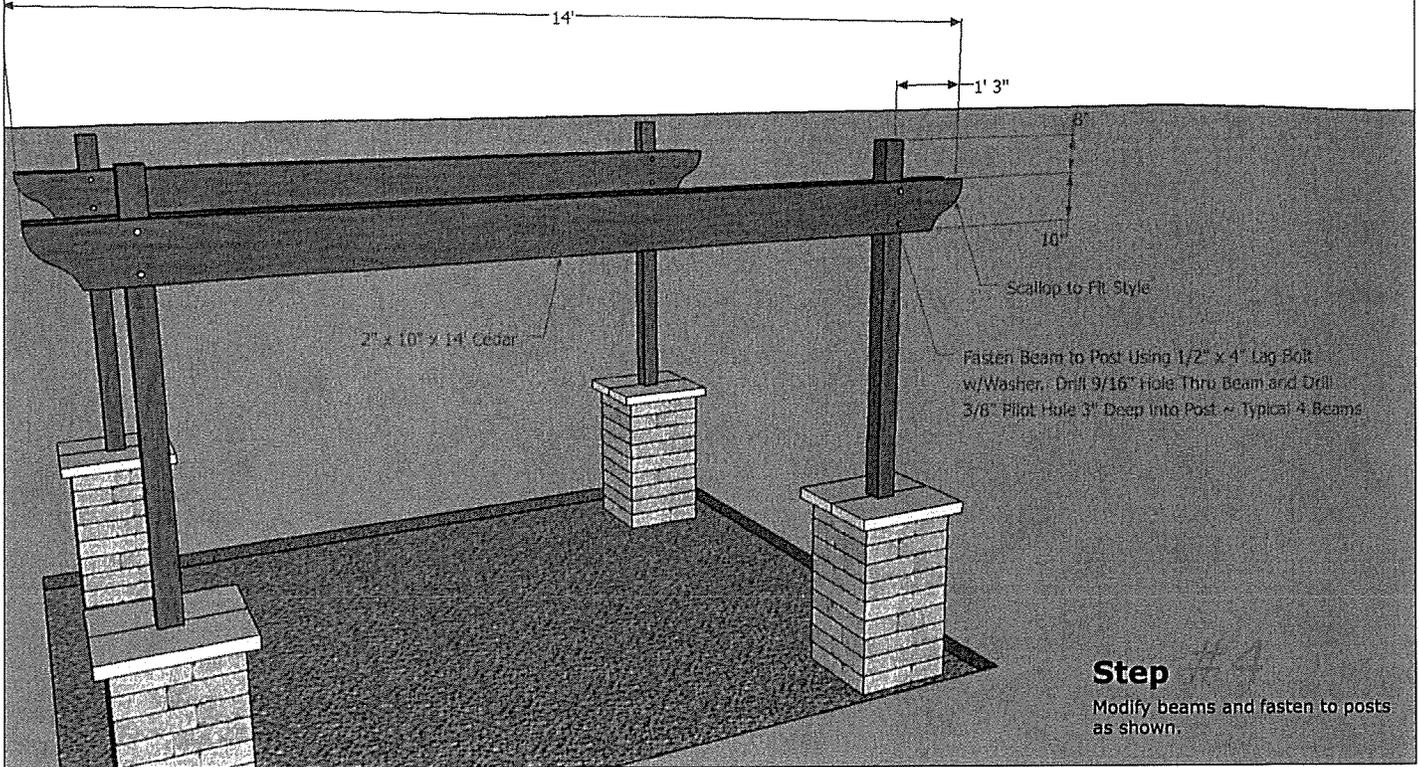


**Course B**

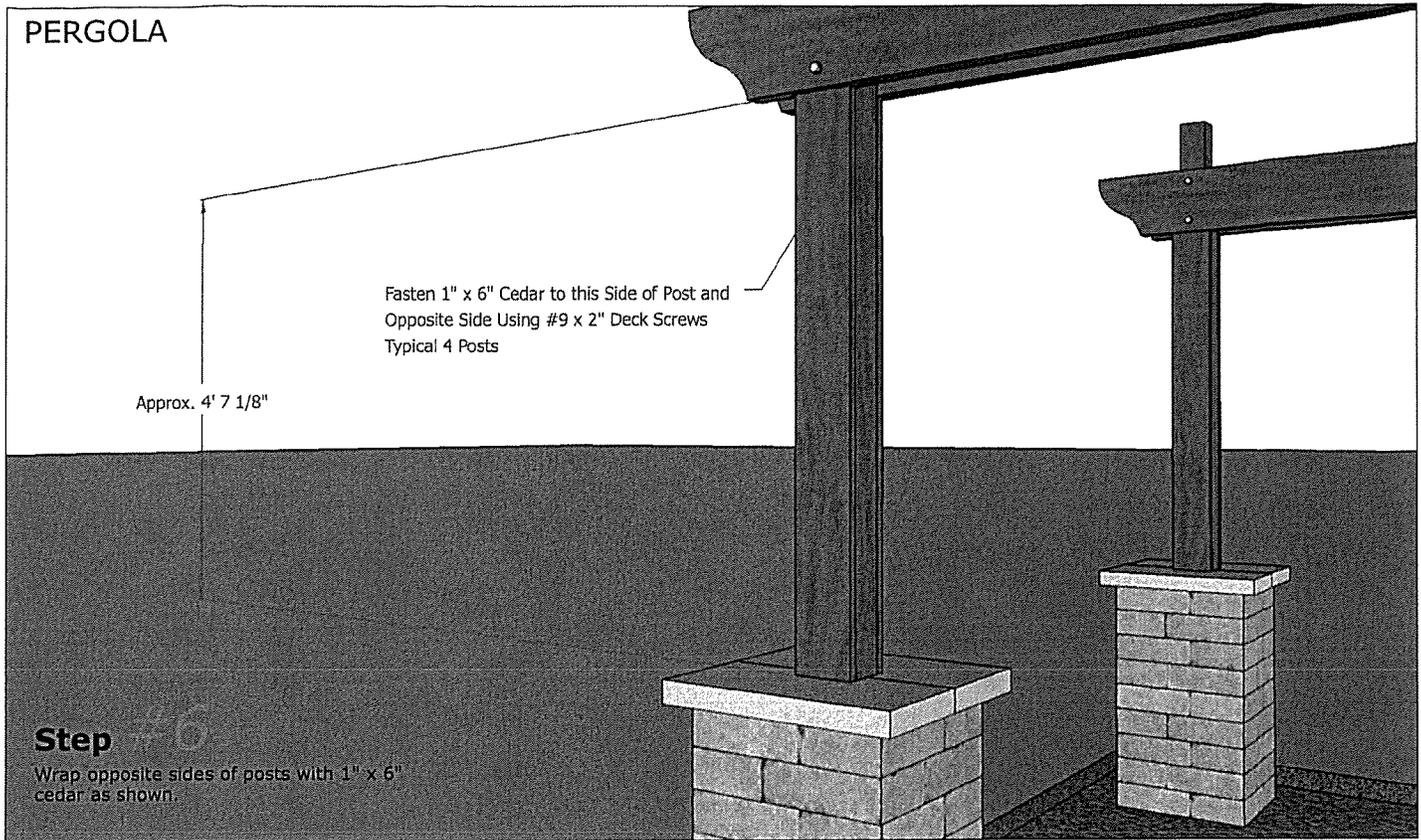


**Cap Modification**

# PERGOLA



PERGOLA

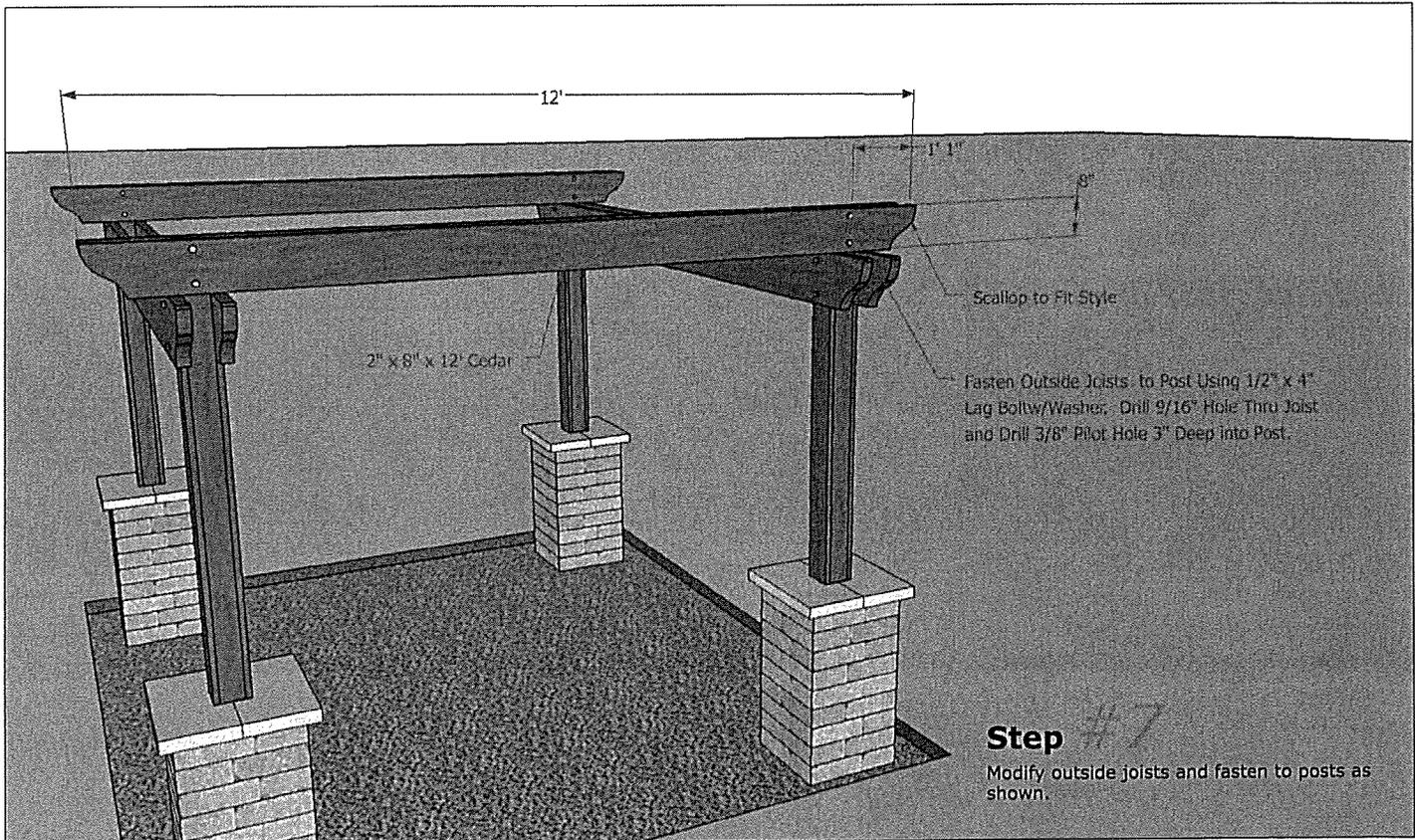


Fasten 1" x 6" Cedar to this Side of Post and Opposite Side Using #9 x 2" Deck Screws  
Typical 4 Posts

Approx. 4' 7 1/8"

**Step**

Wrap opposite sides of posts with 1" x 6" cedar as shown.



12'

1' 1"

8"

2" x 8" x 12' Cedar

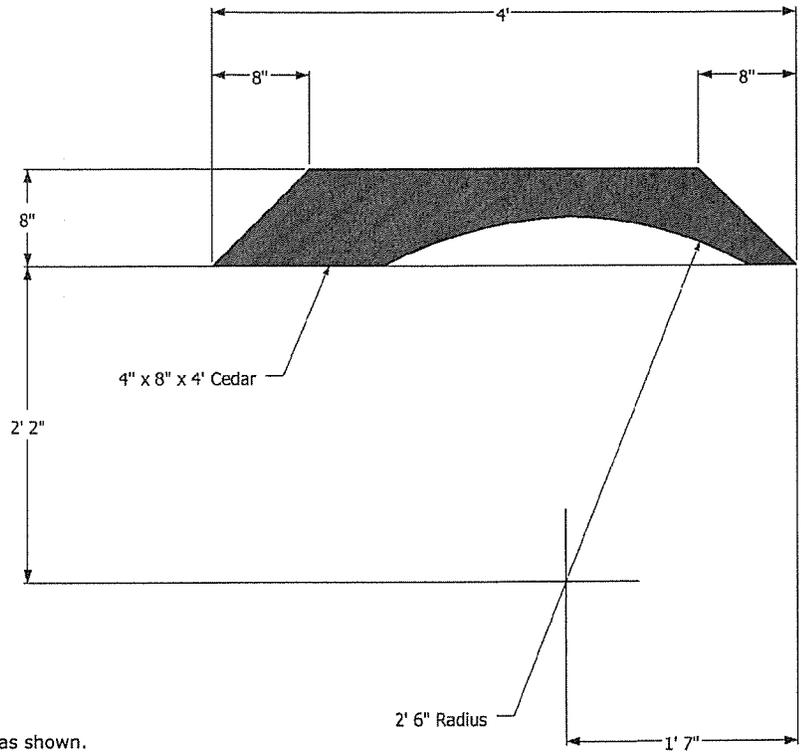
Scallop to Fit Style

Fasten Outside Joists to Post Using 1/2" x 4" Lag Bolt/Washer. Drill 9/16" Hole Thru Joist and Drill 3/8" Pilot Hole 3" Deep into Post.

**Step #7**

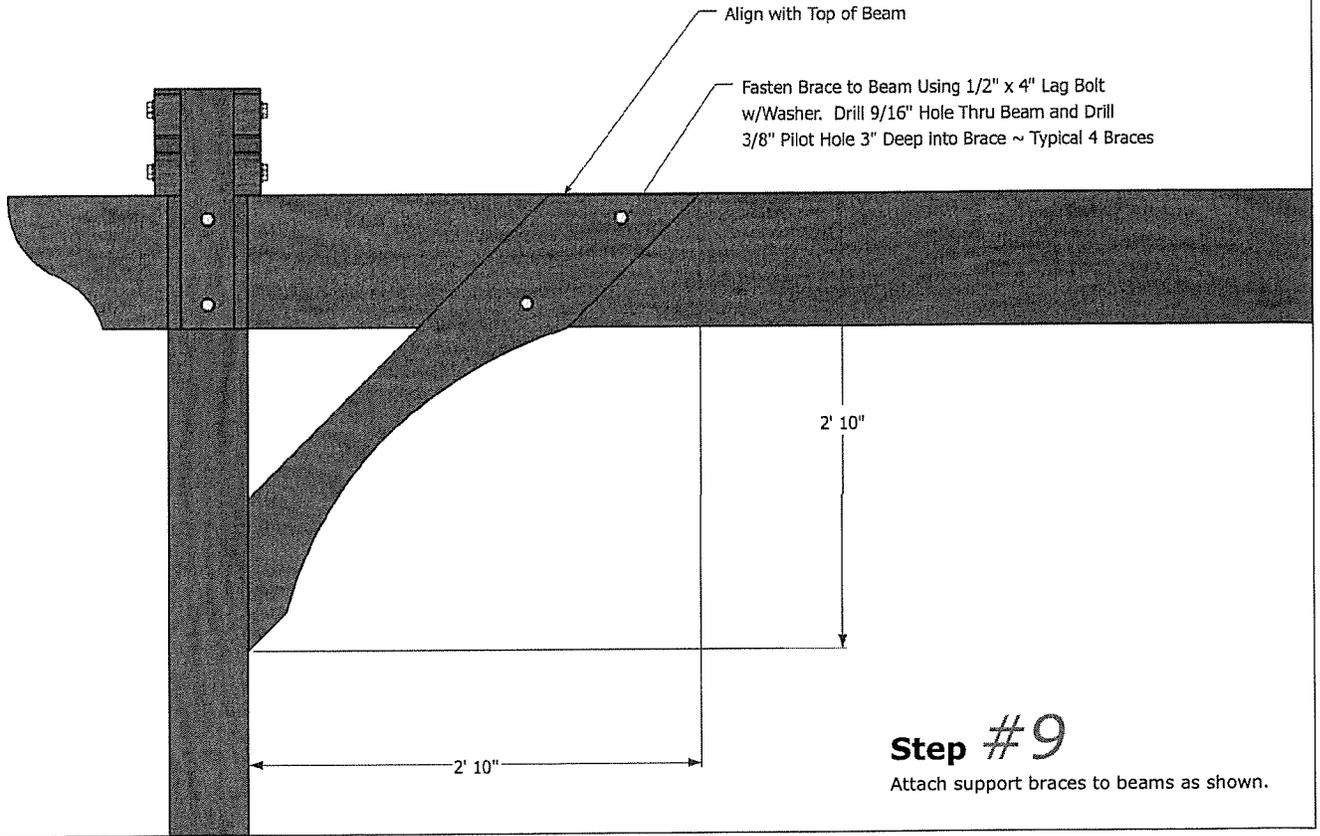
Modify outside joists and fasten to posts as shown.

PERGOLA



**Step #8**

Cut (8) support braces as shown.



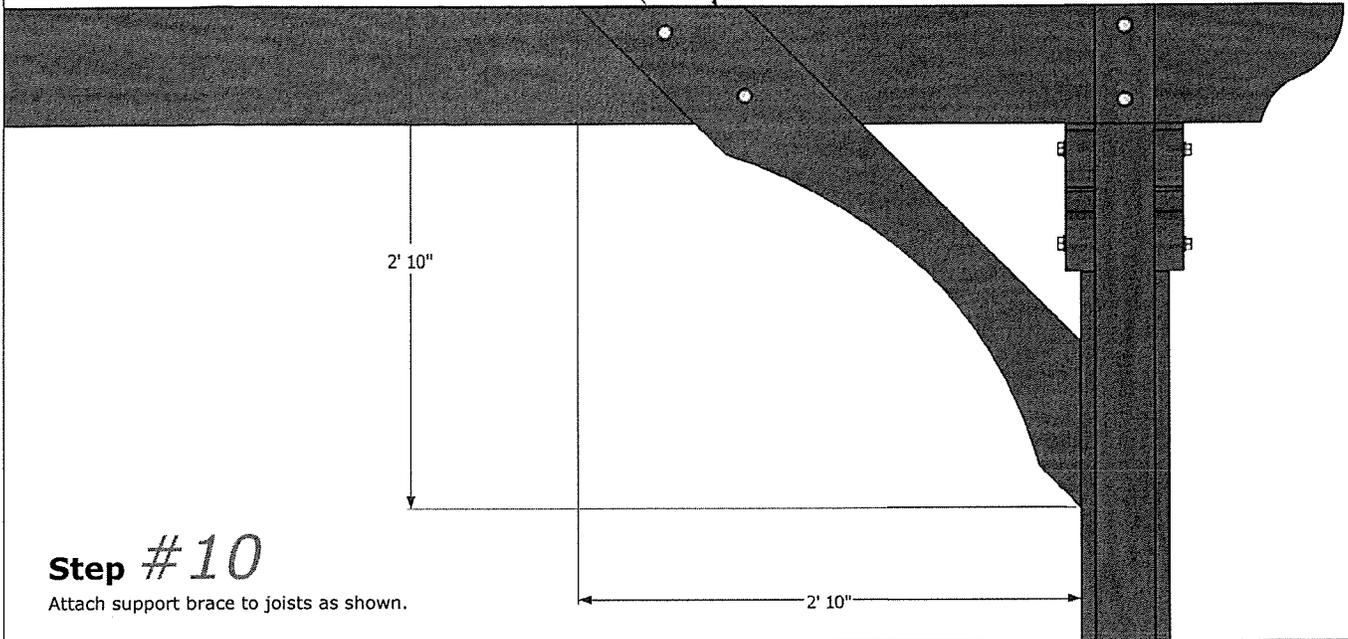
**Step #9**

Attach support braces to beams as shown.

PERGOLA

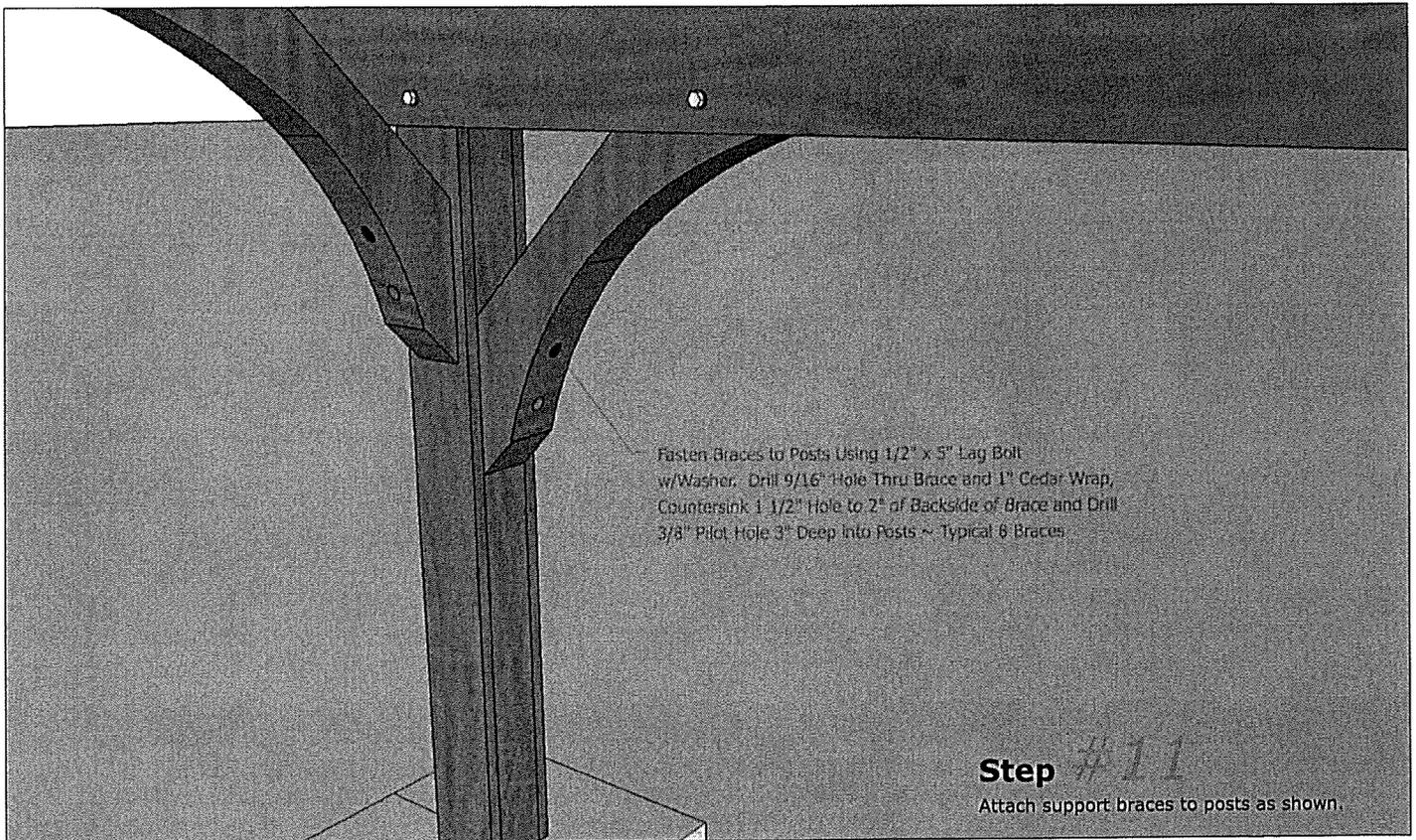
Align with Top of Joists

Fasten Brace to Joists Using 1/2" x 4" Lag Bolt w/Washer. Drill 9/16" Hole Thru Joists and Drill 3/8" Pilot Hole 3" Deep into Brace ~ Typical 4 Braces



**Step #10**

Attach support brace to joists as shown.



Fasten Braces to Posts Using 1/2" x 5" Lag Bolt w/Washer. Drill 9/16" Hole Thru Brace and 1" Cedar Wrap, Countersink 1 1/2" Hole to 2" of Backside of Brace and Drill 3/8" Pilot Hole 3" Deep into Posts ~ Typical 8 Braces

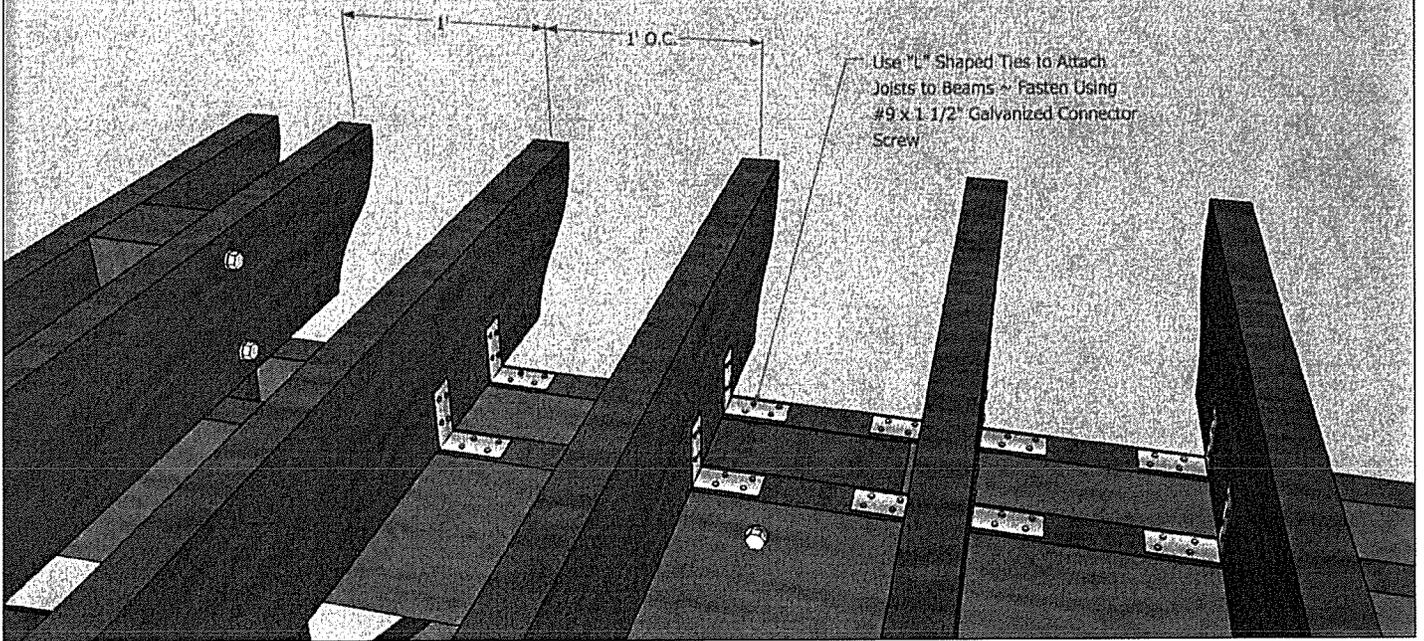
**Step #11**

Attach support braces to posts as shown.

PERGOLA

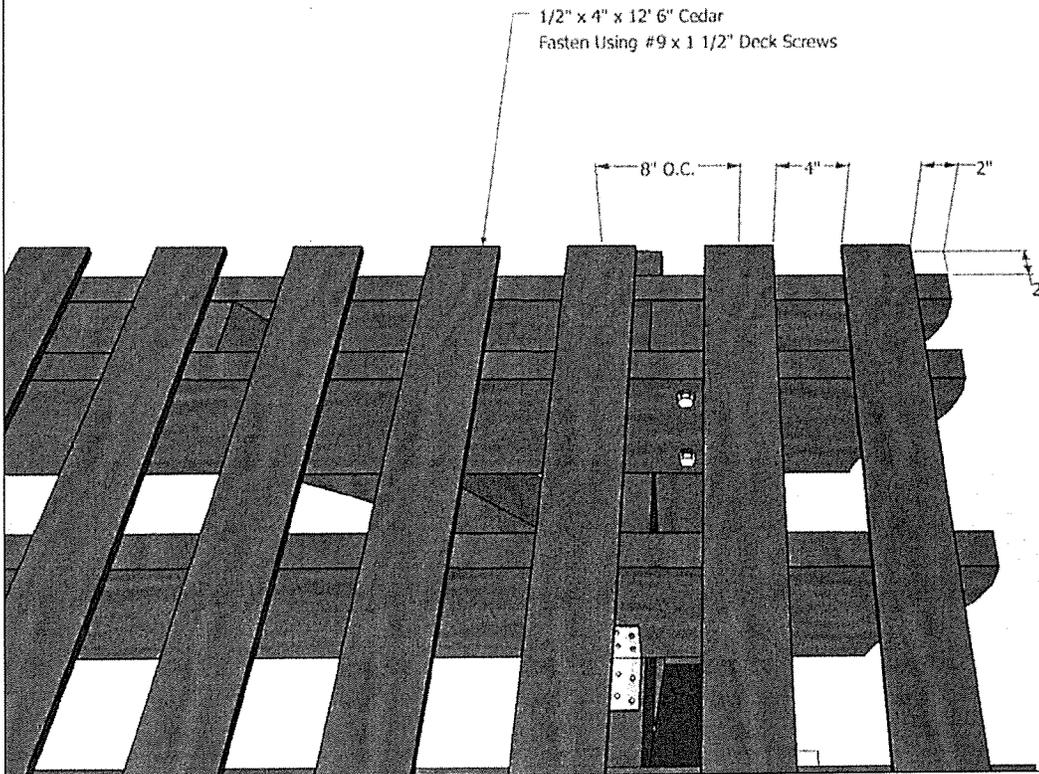
Step #12

Modify and fasten inside joists to beams as shown

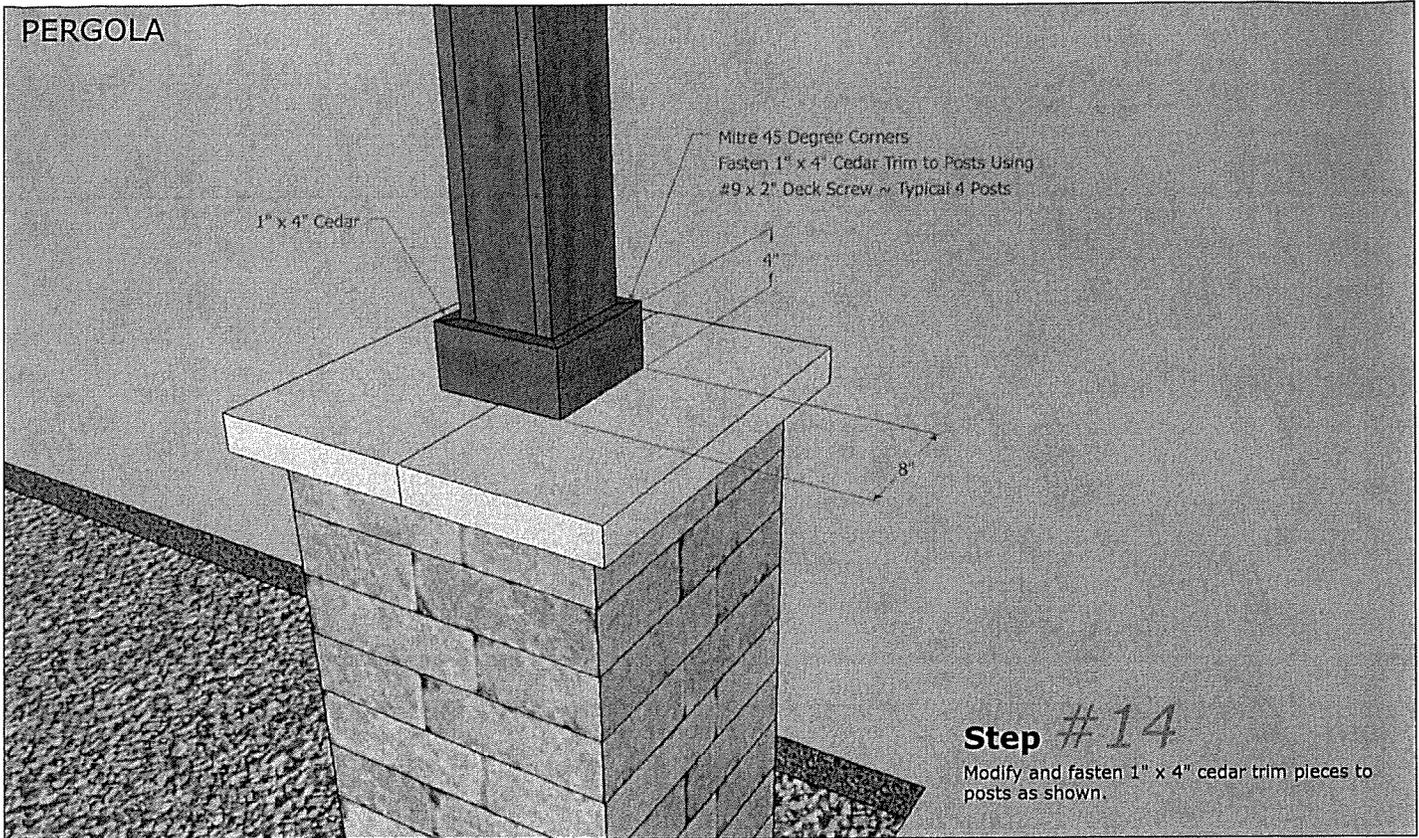


Step #13

Fasten slats to joists as shown.

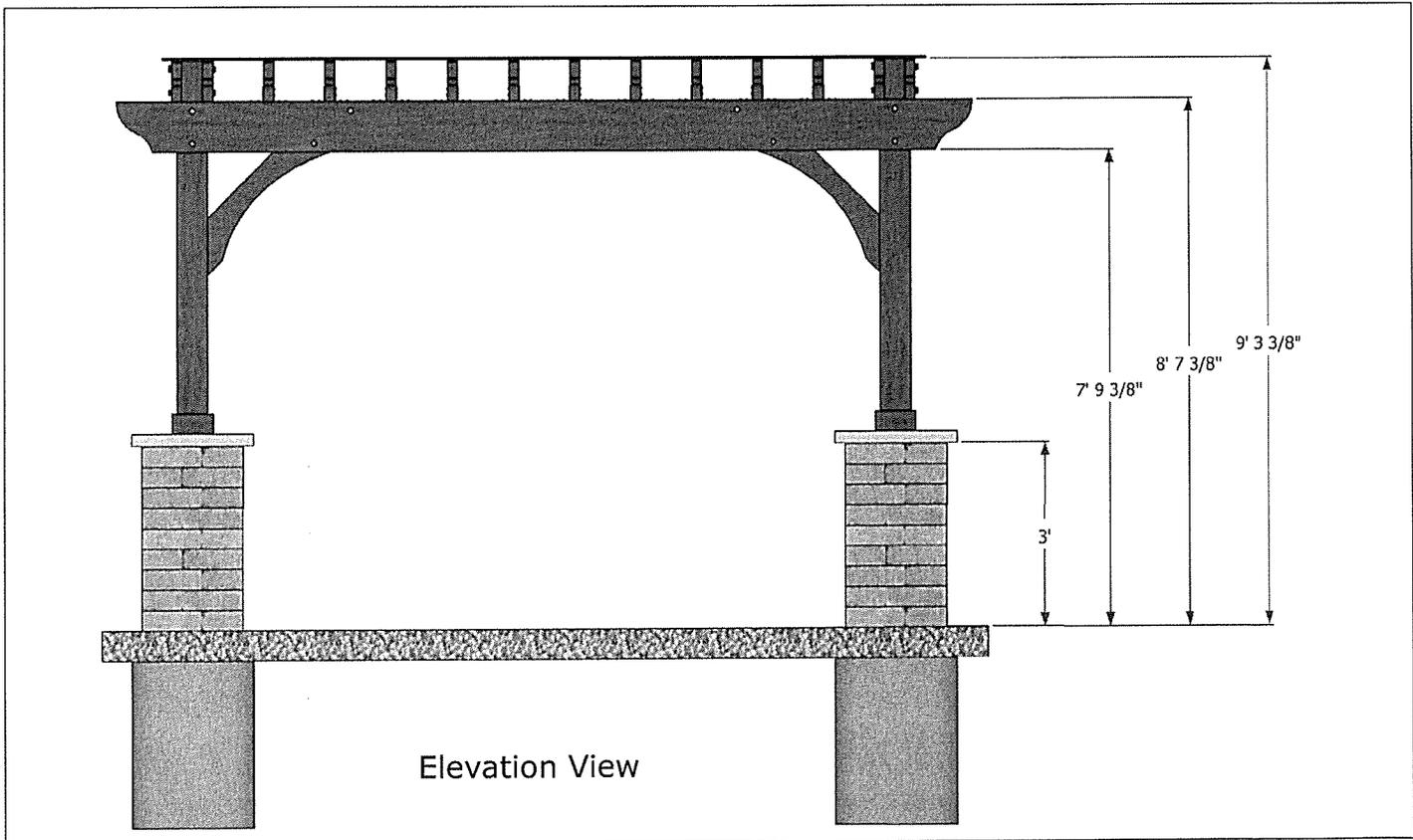


PERGOLA



**Step #14**

Modify and fasten 1" x 4" cedar trim pieces to posts as shown.



Elevation View

## Pergola Material:

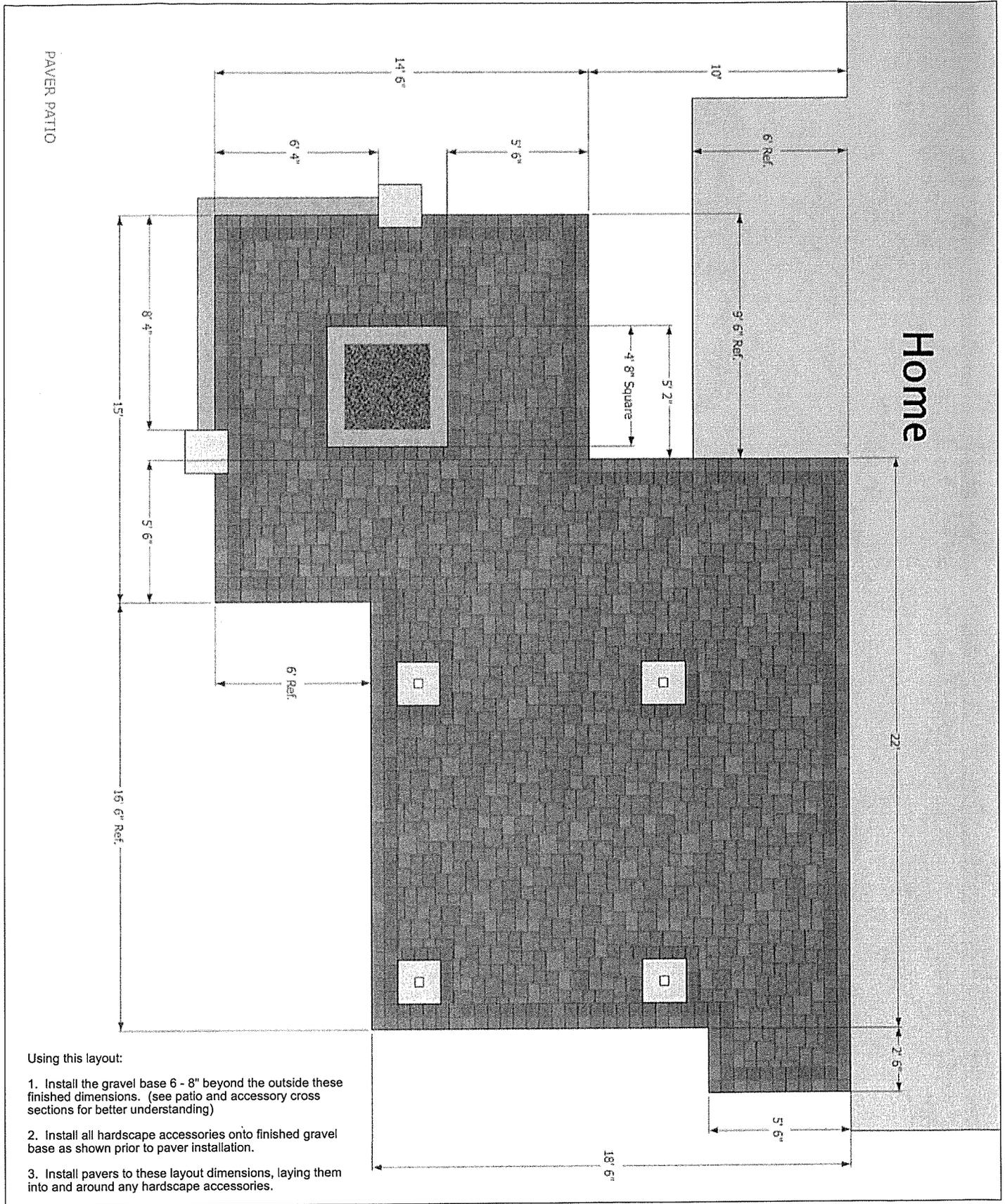
4" x 4" x 12' Cedar (Post)	= 4 pcs	x	\$ _____ (price/pc) = \$ _____ (total price)
2" x 10" x 14' Cedar (Beam)	= 4 pcs	x	\$ _____ (price/pc) = \$ _____ (total price)
2" x 8" x 12' Cedar (Joist)	= 14 pcs	x	\$ _____ (price/pc) = \$ _____ (total price)
1" x 4" x 12' Cedar (Post Wrap)	= 4 pcs	x	\$ _____ (price/pc) = \$ _____ (total price)
1" x 6" x 10' Cedar (Post Wrap)	= 4 pcs	x	\$ _____ (price/pc) = \$ _____ (total price)
4" x 8" x 8' Cedar (Supp. Brace)	= 4 pcs	x	\$ _____ (price/pc) = \$ _____ (total price)
1/2" x 4" x 14' Cedar (Slats)	= 18 pcs	x	\$ _____ (price/pc) = \$ _____ (total price)
1" x 4" x 8' Cedar (Post Trim)	= 2 pcs	x	\$ _____ (price/pc) = \$ _____ (total price)

1/2" Dia. x 4" Lag Bolt (Galvanized)	= 64 pcs	x	\$ _____ (price/pc) = \$ _____ (total price)
1/2" Dia. x 5" Lag Bolt (Galvanized)	= 16 pcs	x	\$ _____ (price/pc) = \$ _____ (total price)
1/2" Dia. Washer (Galvanized)	= 80 pcs	x	\$ _____ (price/pc) = \$ _____ (total price)
3" "L" Shaped Ties (Galvanized)	= 80 pcs	x	\$ _____ (price/pc) = \$ _____ (total price)
#9 x 1 1/2" Deck Screws (Polymer Coated)	= 505 pcs	x	\$ _____ (price/pc) = \$ _____ (total price)
#9 x 2" Deck Screws (Polymer Coated)	= 225 pcs	x	\$ _____ (price/pc) = \$ _____ (total price)
#9 x 1" Connector Screws (Galvanized)	= 640 pcs	x	\$ _____ (price/pc) = \$ _____ (total price)

<b>Column Block</b>	= 144 pcs	x	\$ _____ (price/pc) = \$ _____ (total price)
Block Style = Tumbled Patio Block (4" x 8" x 12" tumbled block)			Blend = _____ (see distributor for available blends)

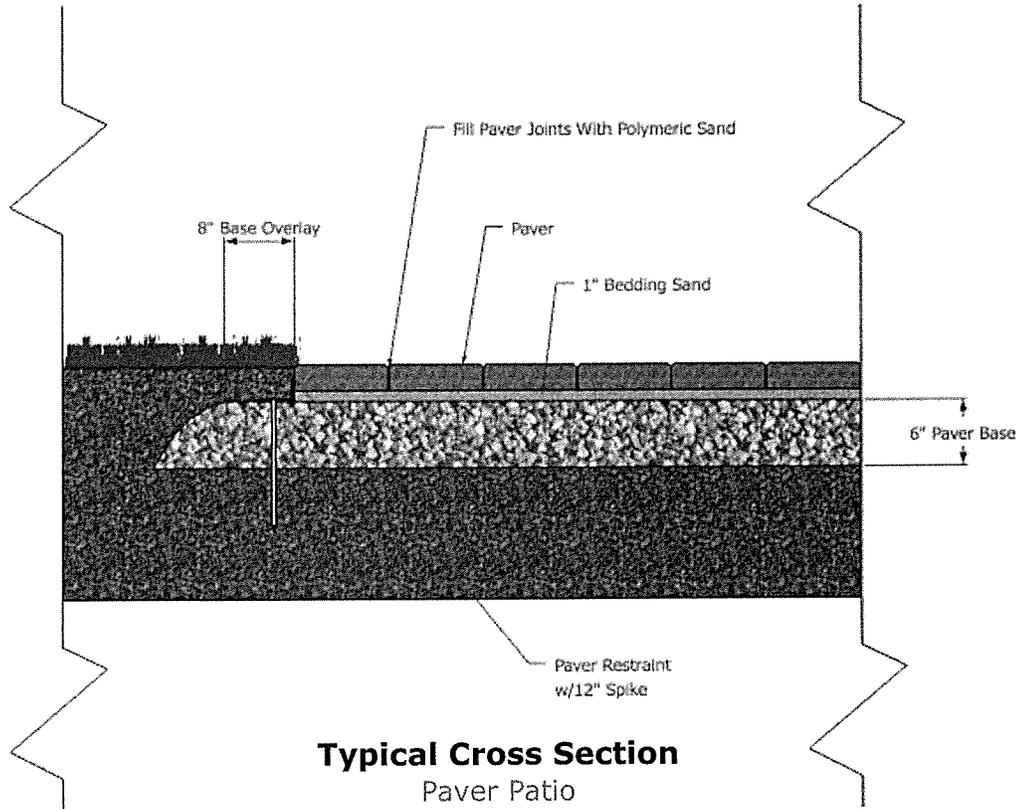
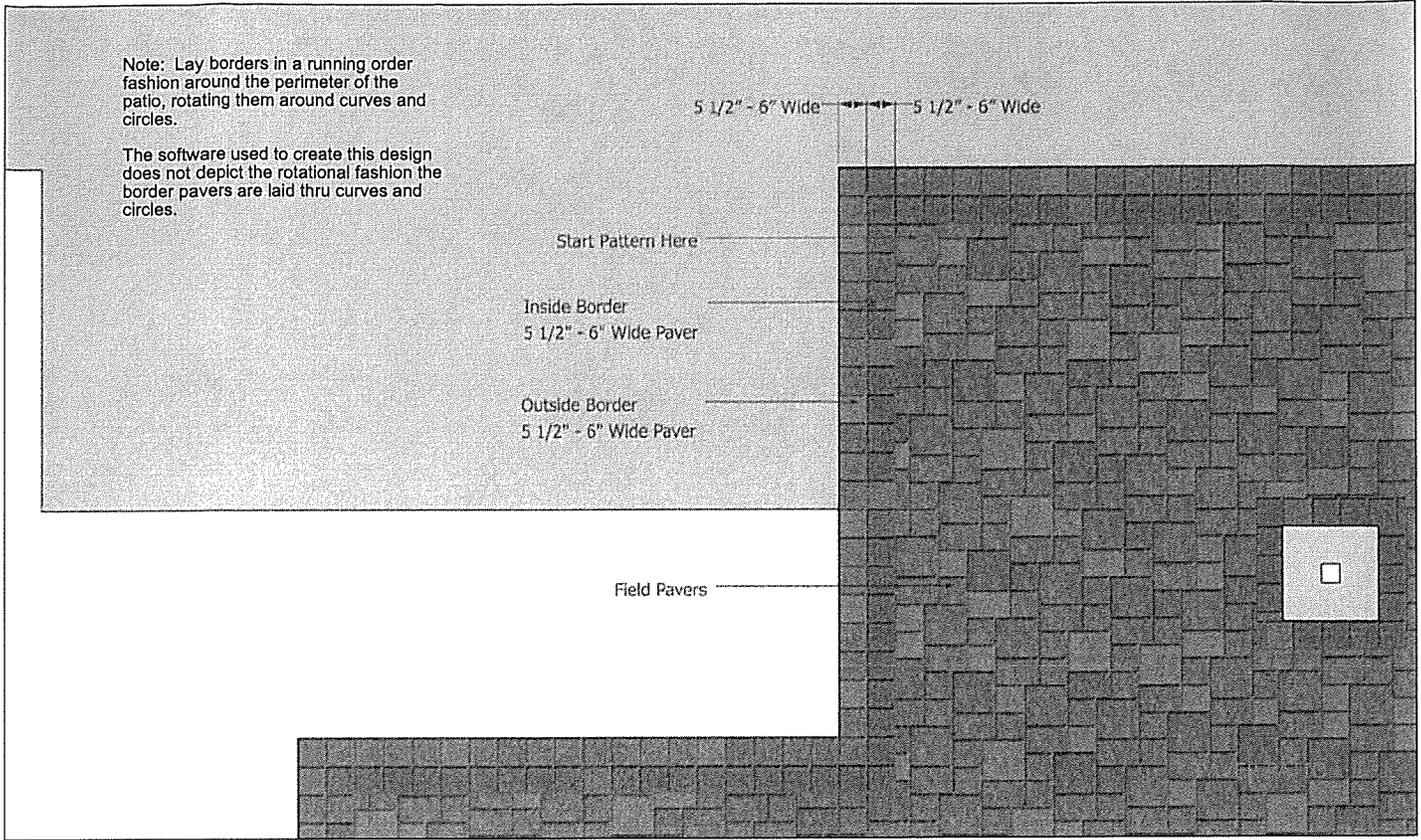
<b>Column Cap</b>	= 4 pcs	x	\$ _____ (price/pc) = \$ _____ (total price)
Block Style = Limestone, Granite or Concrete (2 1/4" T X 24" L X 24" W)			Blend = _____ (see distributor for available blends)

<b>Adhesive</b>	= 8 tubes	x	\$ _____ (price/tube) = \$ _____ (total price)
Type = 10 oz. tubes of Professional Masonry Adhesive			



Using this layout:

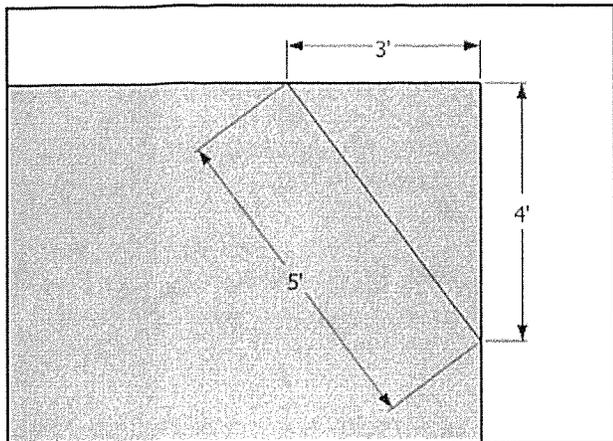
1. Install the gravel base 6 - 8" beyond the outside these finished dimensions. (see patio and accessory cross sections for better understanding)
2. Install all hardscape accessories onto finished gravel base as shown prior to paver installation.
3. Install pavers to these layout dimensions, laying them into and around any hardscape accessories.



**Typical Cross Section**  
Paver Patio

# How to Install a Paver Patio

## Step #1



Before you start call your local utility protection service and have them mark any underground utilities where you will be digging.

Next, layout the outside perimeter of your design, including any accessories, in the area where you plan installing the paver patio. In order to square up the patio (make the sides 90 degrees to your home), you need to establish a reference line perpendicular to your home. This can be accomplished by using two stakes and a string. Set one stake in one corner of the patio against your home and the second stake out, along one side of your patio, but 90 degrees to your home.

Set the string 90 degrees by using the 3-4-5 triangle method. Starting at one of the corners that meets your home, measure 3' along your home and then from the same corner, measure 4' up one side of where your patio will be installed. The diagonal point joining these two points should be 5'. If not, adjust the 4' side until the diagonal measurement is exactly 5'.

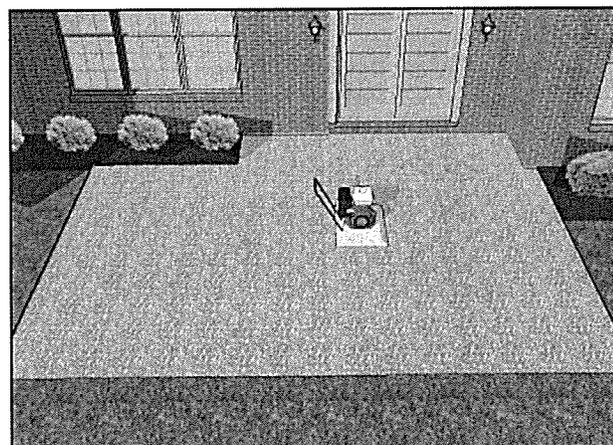
Using the string and your home, you can begin laying out your patio with a measuring tape and marking paint.



## Step #2 (how to excavate for paver patio)

Determine vertically where the top surface of your paver patio will be in relation to your home. From this point you will excavate down approximately 9 1/2". This will allow for 6" of a compacted gravel base plus 1" bedding sand plus 2 3/8" of paver. Make sure to excavate so the patio will slope away from your home.

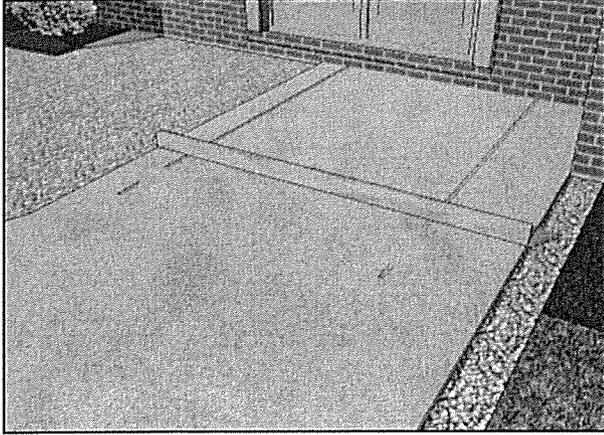
Additionally, excavate 8-10" outside the layout marking lines to allow for grave base overlay. Once all loose soil is removed, compact the excavated area with a vibratory plate compactor.



## Step #3 (installing the gravel base for paver patio)

Begin the gravel installation by evenly spreading a crushed limestone with dust aggregate over the excavated area and compacting with vibratory plate compactor every 2". The compacted gravel is the heart and soul of your paver patio, so make sure you compact it thoroughly.

Continue adding paver base gravel until you have reached a 6" depth and are approximately 3 1/2" of finished paver height. Again you need to verify your gravel base slopes away from your home. Make sure the gravel surface is relatively flat, but sloping, by laying a straight 2 x 4 over the base, adding or raking gravel to achieve satisfying results.

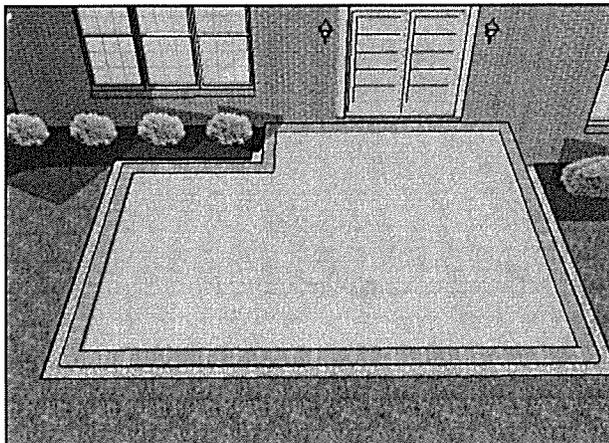
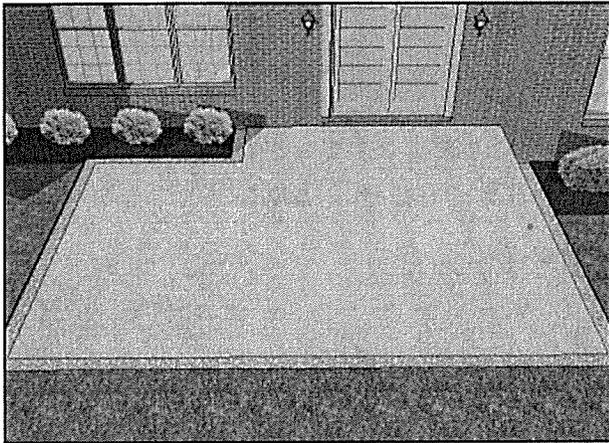


**Step #4** (installing bedding sand for paver patio)

Next, you want to evenly spread a course sand over the paver base gravel, creating a sand bed for the pavers to seat in. This can effectively and efficiently be achieved by laying two 1" diameter pipe approximately 10' long directly onto the gravel base as shown. We recommend using 1" galvanized electrical conduit pipe for it's inexpensive cost.

Start spreading the course sand, as even as possible, between the pipe and a couple of feet on each side. With a 2 x 4 approximately 8' long, start screeding the sand. More than likely you will have to fill in areas and re-screed to achieve a flat, uniform layer of bedding sand.

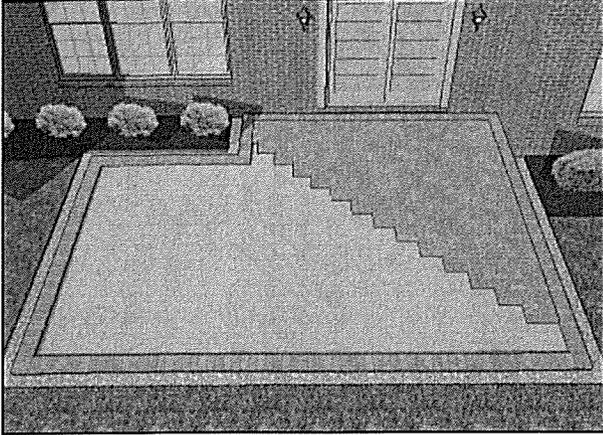
Once you complete one area, remove the pipe and fill in with troughs created from the pipe. These area can be smoothed using a bull float. Move the pipe to a new location and begin the process again until the entire paved area has a uniform and flat layer of bedding sand.



**Step #5** (installing a border around paver patio)

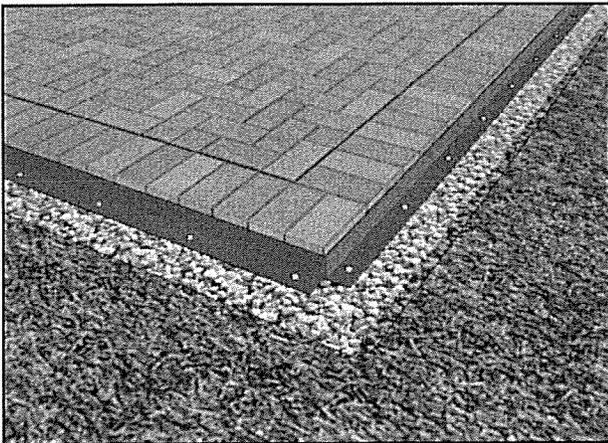
In order to achieve professional looking results, it is essential to install a paver border, whether it is the same blend as your field pavers or not.

Before you start laying the border course, it will be necessary to re-layout your patio with marking paint. Beginning in a corner closest to your home, lay the pavers along your home and out along the layout string you set earlier and following your layout marking until the entire border is laid.



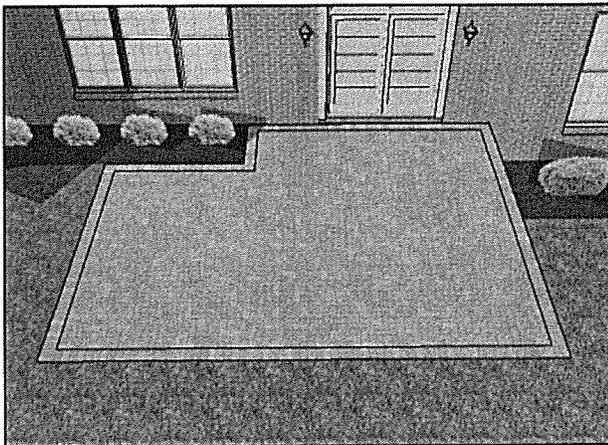
**Step #6** (installing the field pavers)

Start laying the paver pattern in one corner and work your way across to the opposite corner. In most cases, the paver along the opposite sides will need cut or trimmed to fit your design.



**Step #7** (installing the joint sand to paver patio)

After you have laid all the field pavers, it is time to install the paver restraint. This is a pretty simple installation and is self explanatory. Just lay the edging up tight against the pavers, down on the gravel and begin installing the 12" spikes into ALL the spike holes in the paver edging.



**Step #8** (installing the joint sand to paver patio)

As with all the above steps, how you install the joint sand is very important. Choose either a fine sand or a polymeric sand manufactured for pavers. We recommend a professional grade polymeric sand to keep weeds from germinating in the joints.

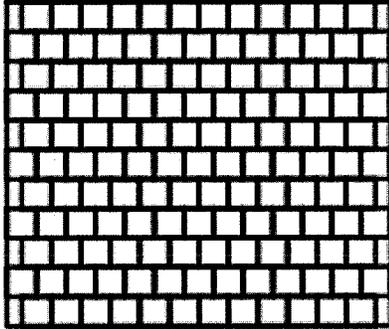
Start by spreading the sand over the entire paver patio and sweeping it into all the paver joints. With access still on the pavers, begin running the plate compactor all over the top of the pavers. This will vibrate sand into the joints, but more importantly seat the pavers into the bedding sand. Once finished sweep off the excess sand. If you are using polymeric sand, follow the manufacturers instructions.

**1 & 2 Paver Patterns  
for Square and Rectangle Pavers**

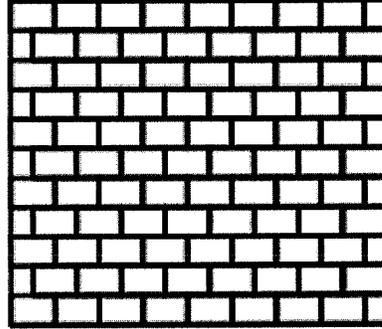
 5 1/2" x 5 1/2" or 6" x 6"

 5 1/2" x 8 1/4" or 6" x 9"

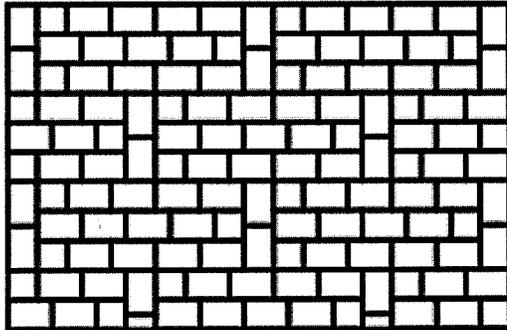
**Muster A (Running Bond)**  
Square = 100%



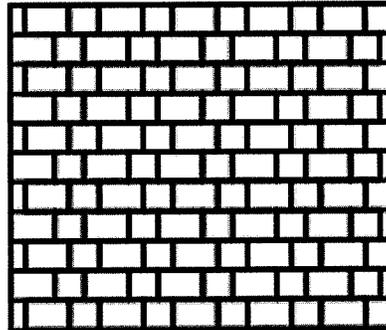
**Muster B (Running Bond)**  
Rectangle = 100%



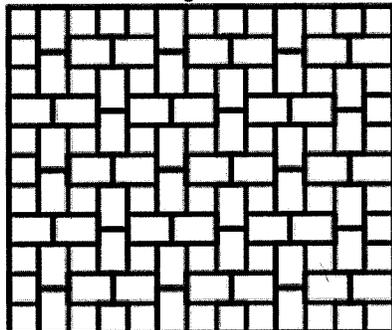
**Muster I**  
Square = 20%  
Rectangle = 80%



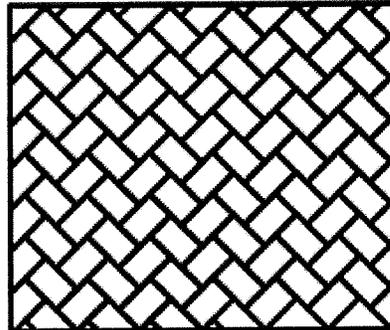
**Muster D**  
Square = 40%  
Rectangle = 60%



**Muster K**  
Square = 30%  
Rectangle = 70%



**Herringbone**  
Rectangle = 100%



**3 & 4 Paver Patterns  
for Square, Rectangle, Large Square  
and Large Rectangle Pavers**

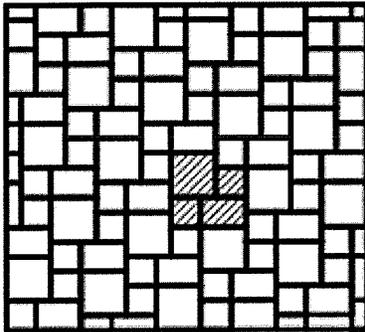
 5 1/2" x 5 1/2" or 6" x 6"

 5 1/2" x 8 1/4" or 6" x 9"

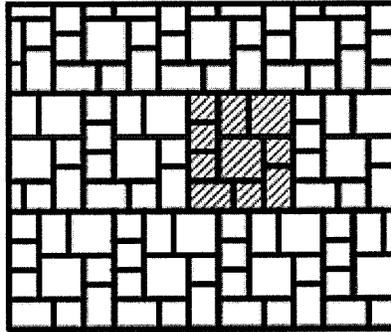
 8 1/4" x 8 1/4" or 9" x 9"

 8 1/4" x 11" or 9" x 12"

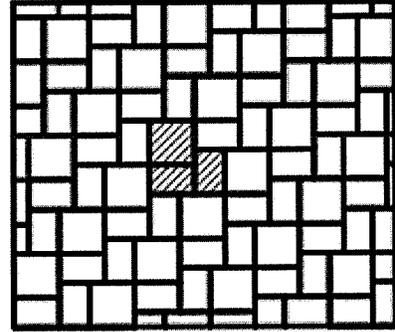
**Muster P**  
Square = 34.8%  
Rectangle = 26.1%  
Large Square = 39.1%



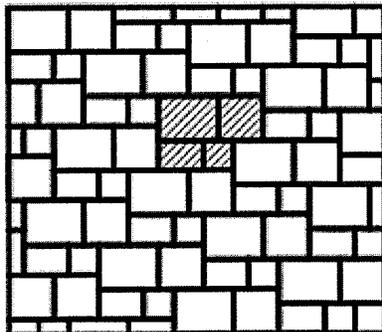
**Muster Q**  
Square = 35.8%  
Rectangle = 32.1%  
Large Square = 32.1%



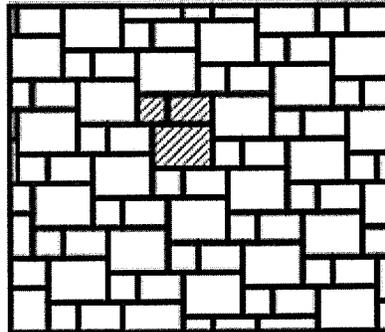
**Muster R**  
Rectangle = 57.1%  
Large Square = 42.9%



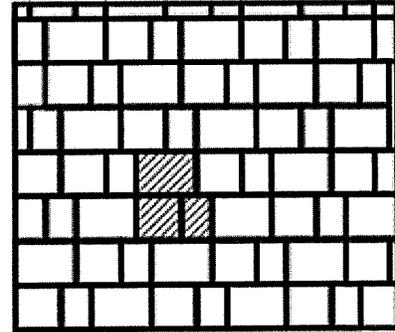
**Muster S**  
Square = 13.3%  
Rectangle = 19.96%  
Large Square = 30.17%  
Large Rectangle = 39.9%



**Muster T**  
Square = 27.2%  
Rectangle = 18.3%  
Large Rectangle = 54.5%



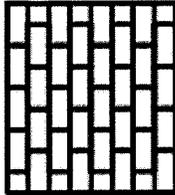
**Muster U**  
Rectangle = 22.2%  
Large Square = 33.5%  
Large Rectangle = 44.3%



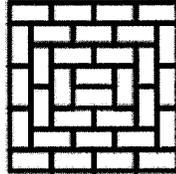
## Paver Patterns for Brick Size Pavers

 4" x 8" x 2 3/8"

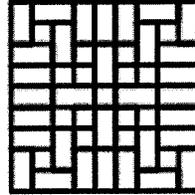
Running Bond



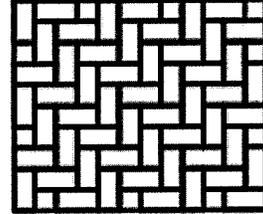
Running Bond  
Variation



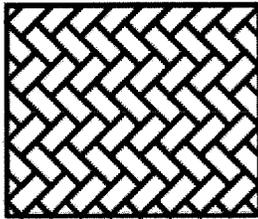
Variegated



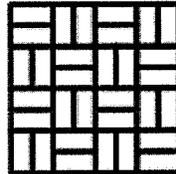
90 deg. Herringbone



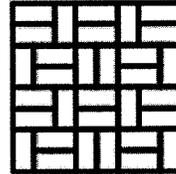
45 deg. Herringbone



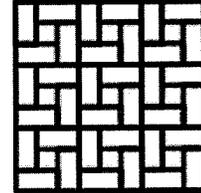
Basket Weave



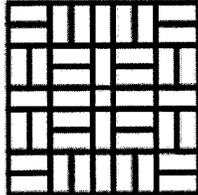
Basket Weave  
Variation 1



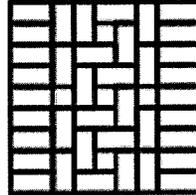
Basket Weave  
Variation 2



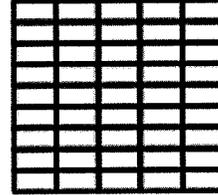
Basket Weave  
Variation 3



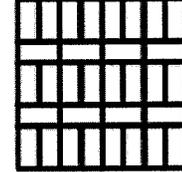
Basket Weave  
& Stack Bond



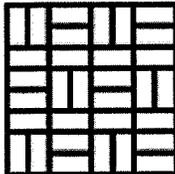
Stack Bond



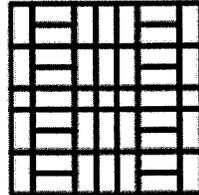
Stack Bond  
Variation 1



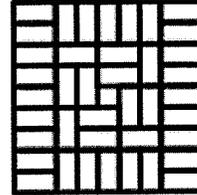
Stack Bond  
Variation 2



Stack Bond  
Variation 3



Stack Bond  
Variation 4



**Paver Patio Material:** (Approx. 560 total sq. ft.)

**Field Pavers** = 420 sf x \$ \_\_\_\_\_ (price/sf) = \$ \_\_\_\_\_ (total price)

Paver Style = \_\_\_\_\_ Pattern = \_\_\_\_\_  
 (see distributor for available styles) (see attached pattern options)

Blend = \_\_\_\_\_  
 (see distributor for available blends)

**Outside Border** = 60 sf x \$ \_\_\_\_\_ (price/sf) = \$ \_\_\_\_\_ (total price)  
 (5 1/2" -6" Wide Paver)

Paver Style = \_\_\_\_\_ Blend = \_\_\_\_\_  
 (see distributor for available styles) (see distributor for available blends)

**Inside Border** = 80 sf x \$ \_\_\_\_\_ (price/sf) = \$ \_\_\_\_\_ (total price)  
 (5 1/2"- 6" Wide Paver)

Paver Style = \_\_\_\_\_ Blend = \_\_\_\_\_  
 (see distributor for available styles) (see distributor for available blends)

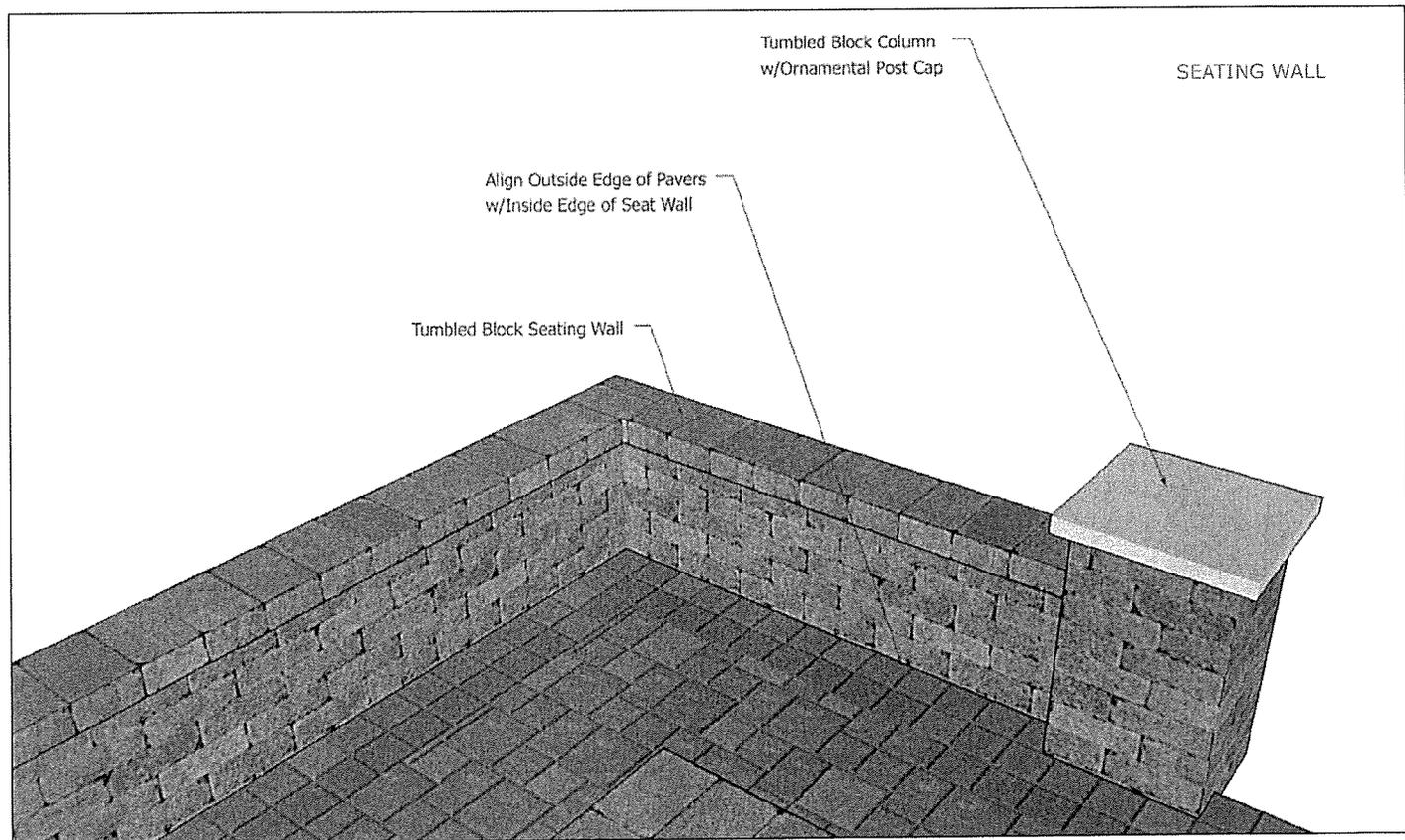
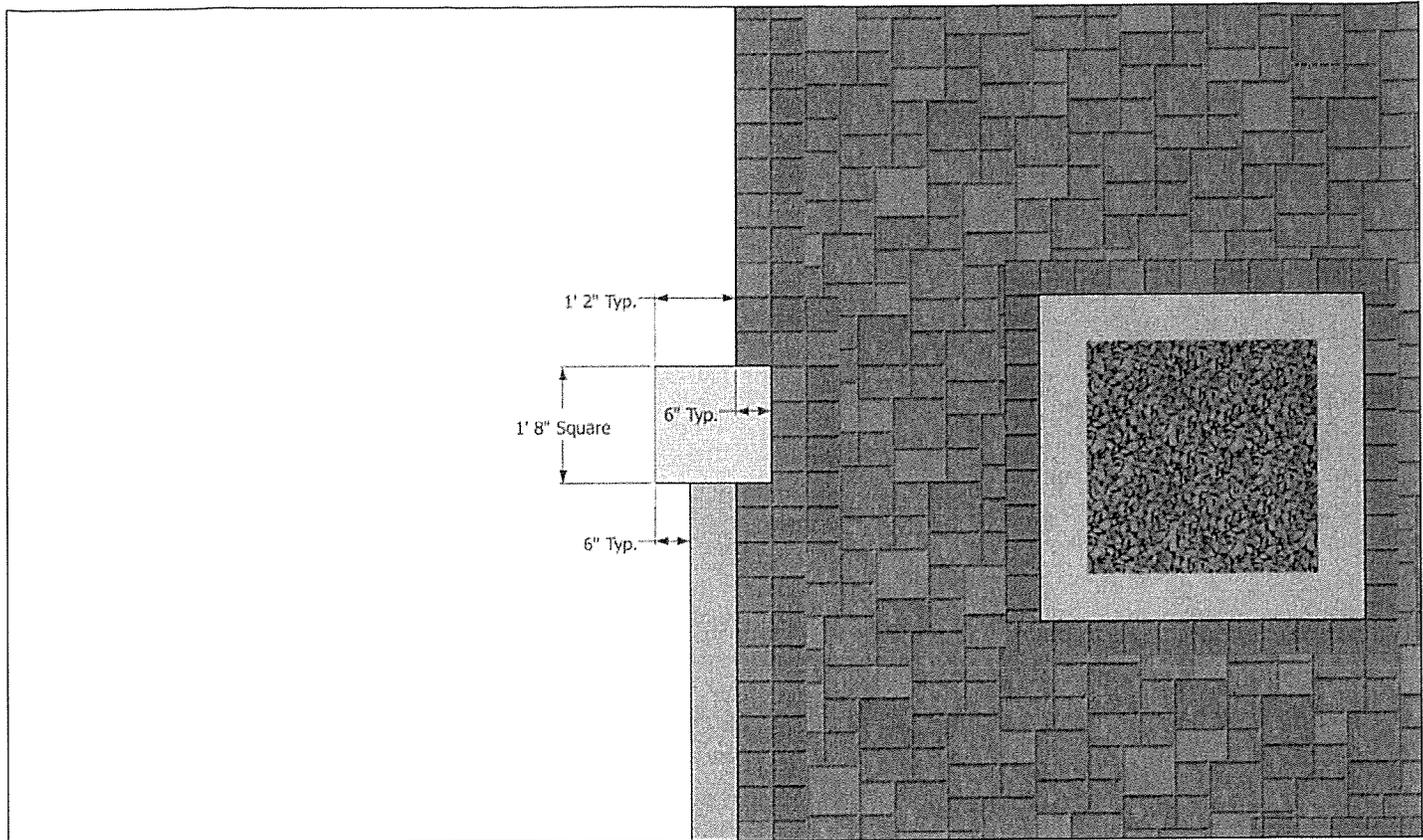
**Gravel Base** = 11.5 yds x \$ \_\_\_\_\_ (price/yd) = \$ \_\_\_\_\_ (total price)  
 (#411 Crushed Limestone)

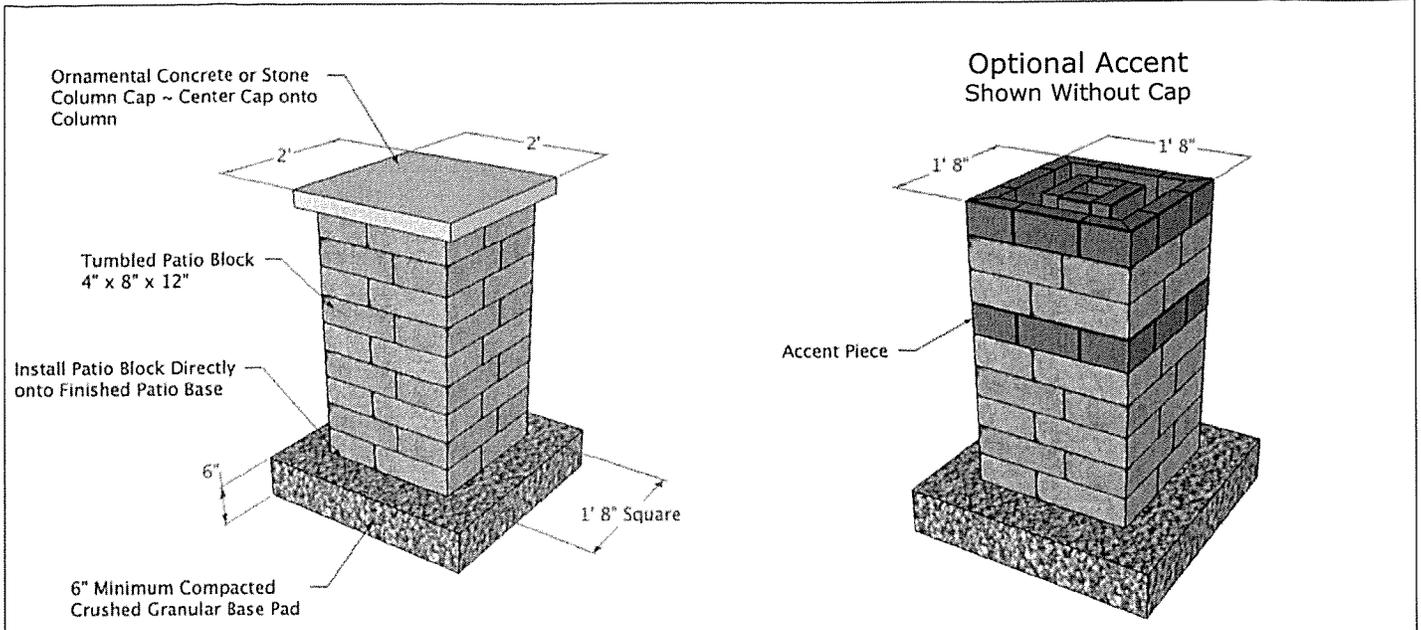
**Bedding Sand** = 3 yds x \$ \_\_\_\_\_ (price/yd) = \$ \_\_\_\_\_ (total price)  
 (Coarse Sand)

**Joint Sand** = 7 bag(s) x \$ \_\_\_\_\_ (price/bag) = \$ \_\_\_\_\_ (total price)  
 (50# bag)

**Paver Restraint** = 70 lin ft x \$ \_\_\_\_\_ (price/lin ft) = \$ \_\_\_\_\_ (total price)

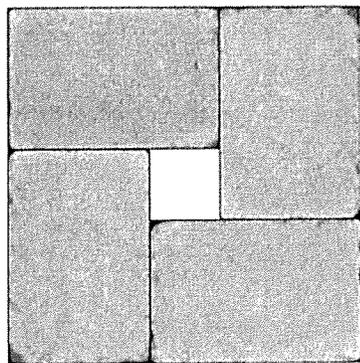
**Spikes** = 70 pcs x \$ \_\_\_\_\_ (price/pc) = \$ \_\_\_\_\_ (total price)



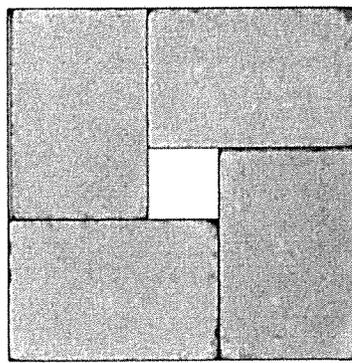


**Typical Column Construction**

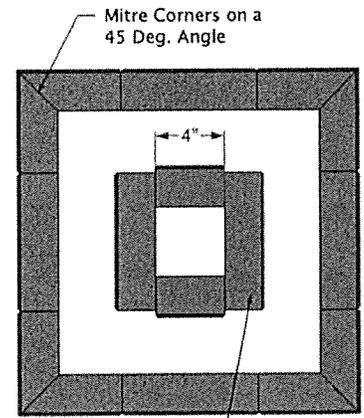
Tumbled Patio Block (4" x 8" x 12")



**Course A**



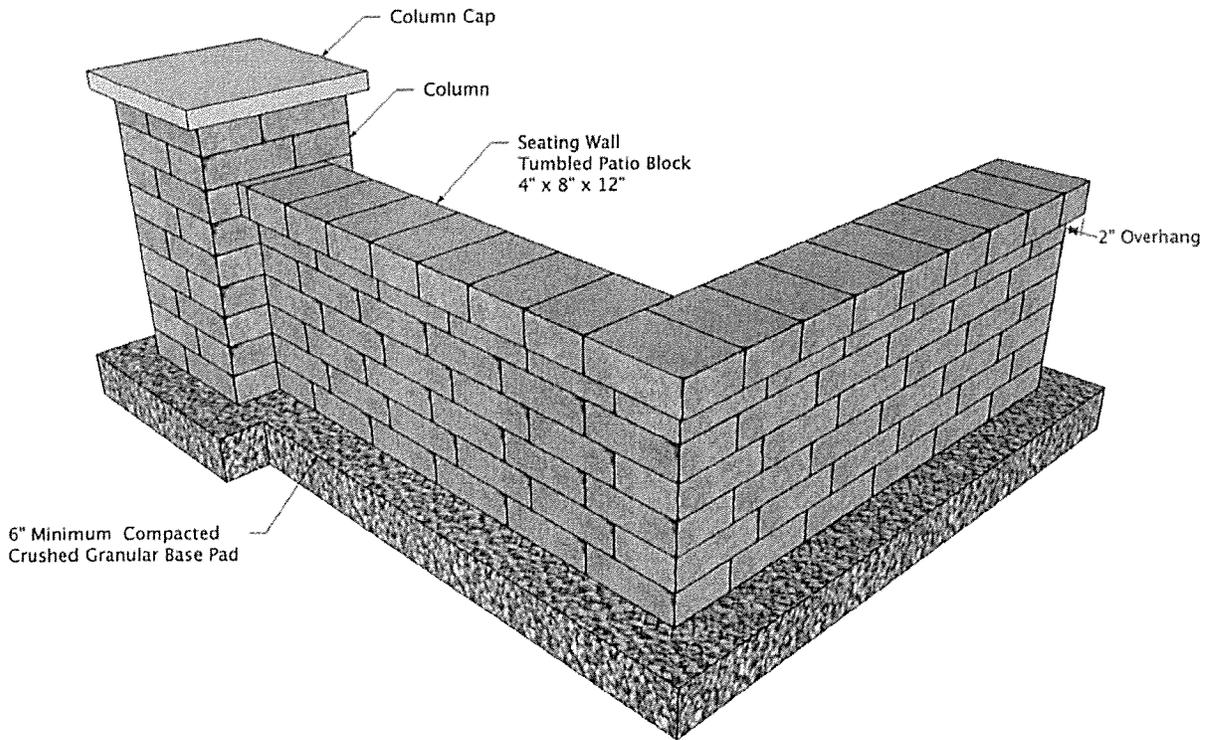
**Course B**



**Optional Accent Course**

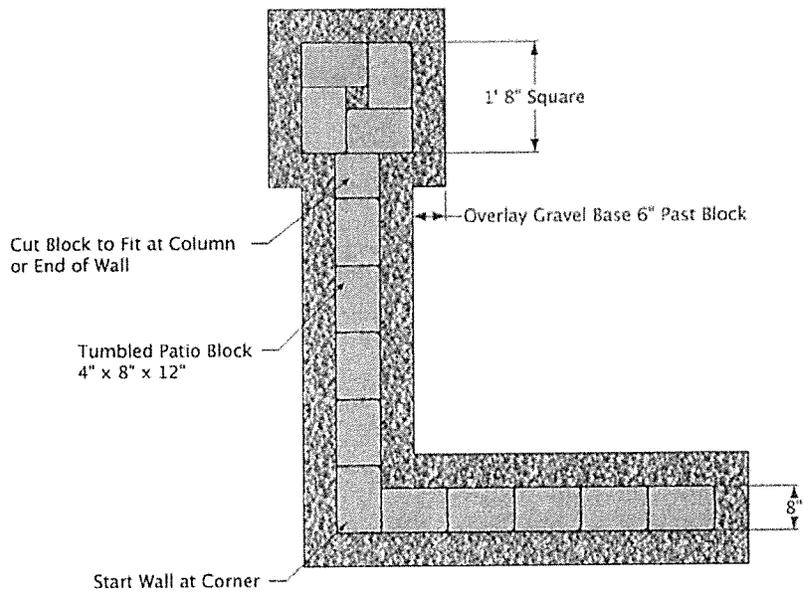
**Note:**

- Alternate Courses A and B Until Column Reaches Desired Height.
- Optional: Add Accent Course(s) as Shown or Where Desired.
- Bond All Courses One to the Other Using a Professional Masonry Adhesive.
- Accent Piece may affect standard height depending on accent piece thickness.



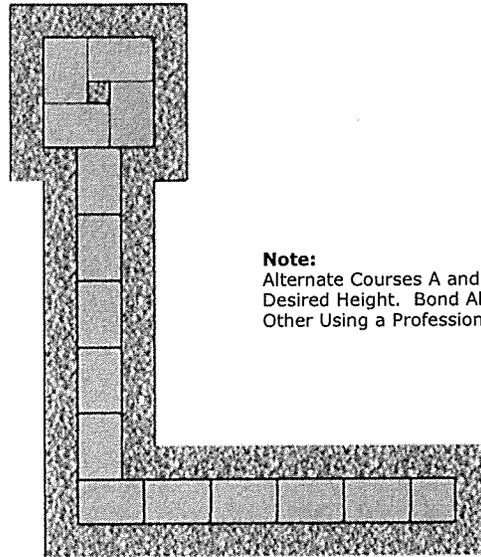
### Typical 90 Deg. Seat Wall Installation

Tumbled Patio Block (4" x 8" x 12")



### Course A

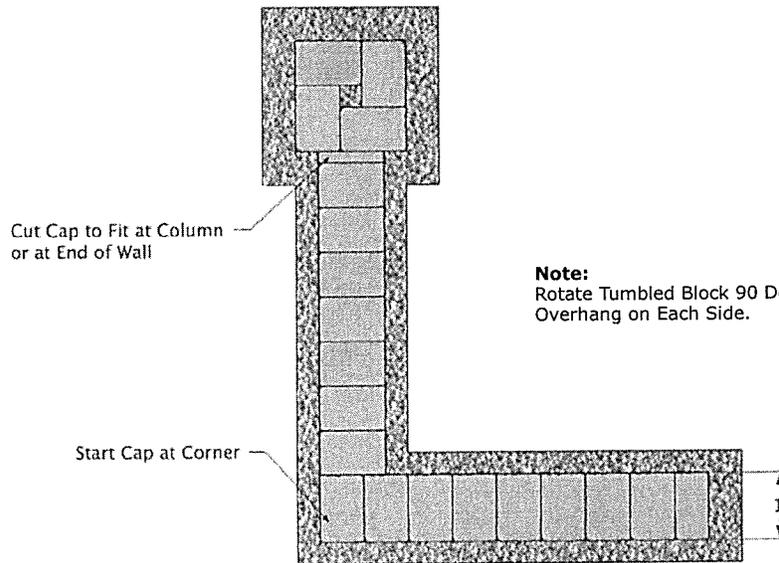
# TYPICAL 90 DEGREE SEAT WALL INSTALLATION



**Note:**  
 Alternate Courses A and B Until Seat Wall Reaches  
 Desired Height. Bond All Courses One to the  
 Other Using a Professional Masonry Adhesive.

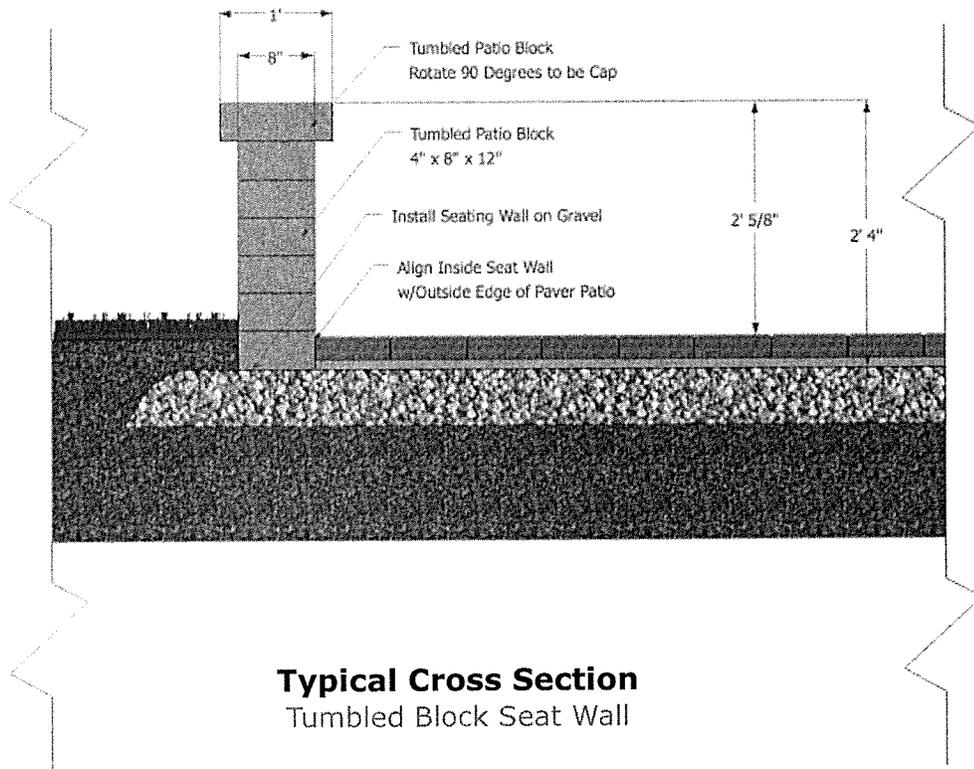
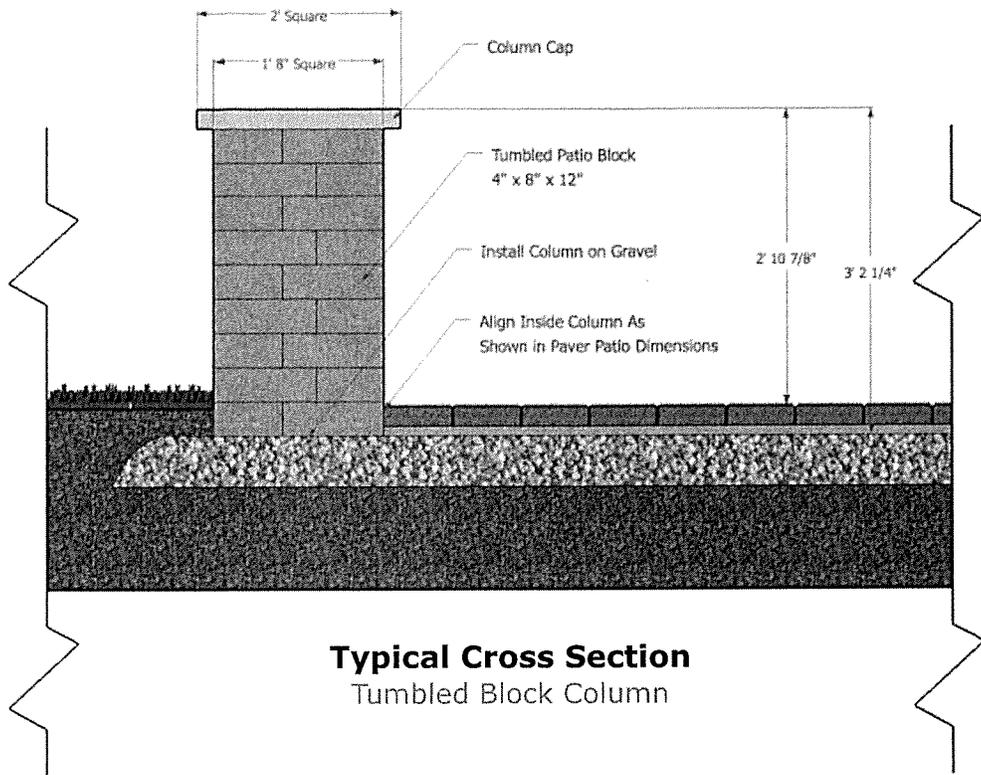
## Typical 90 Deg. Seat Wall Construction

Tumbled Patio Block (4" x 8" x 12")



**Note:**  
 Rotate Tumbled Block 90 Deg. to Wall Providing a 2"  
 Overhang on Each Side.

### Cap Course



**Seat Wall Material:** (Approx. 16 linear ft.)

**Seating Wall Block** = 96 pcs x \$ \_\_\_\_\_ (price/pc) = \$ \_\_\_\_\_ (total price)

Block Style = Tumbled Patio Block  
(4" x 8" x 12" tumbled block)

Blend = \_\_\_\_\_  
(see distributor for available blends)

**Seating Wall Cap** = 25 pcs x \$ \_\_\_\_\_ (price/pc) = \$ \_\_\_\_\_ (total price)

Block Style = Tumbled Patio Block  
(4" x 8" x 12" tumbled block)

Blend = \_\_\_\_\_  
(see distributor for available blends)

**Column Block** = 72 pcs x \$ \_\_\_\_\_ (price/pc) = \$ \_\_\_\_\_ (total price)

Block Style = Tumbled Patio Block  
(4" x 8" x 12" tumbled block)

Blend = \_\_\_\_\_  
(see distributor for available blends)

**Column Cap** = 2 pcs x \$ \_\_\_\_\_ (price/pc) = \$ \_\_\_\_\_ (total price)

Cap Style = Limestone, Granite or Concrete  
(2 1/4" T X 24" L X 24" W)

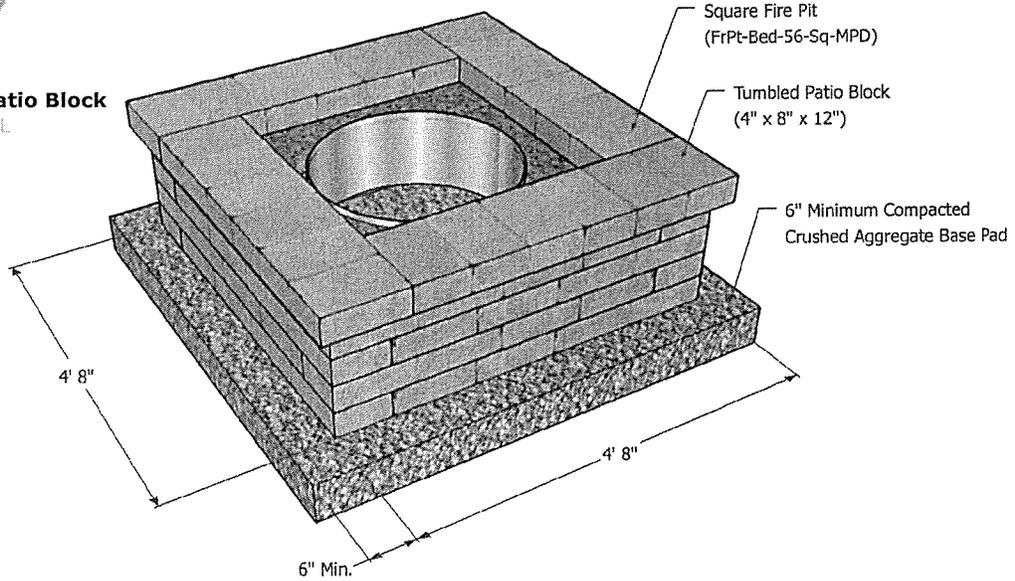
Blend = \_\_\_\_\_  
(see distributor for available blends)

**Adhesive** = 9 tubes x \$ \_\_\_\_\_ (price/tube) = \$ \_\_\_\_\_ (total price)

Type = 10 oz. tubes of Professional Masonry Adhesive



**Built Using Tumbled Patio Block**  
4" T x 8" D x 12" L



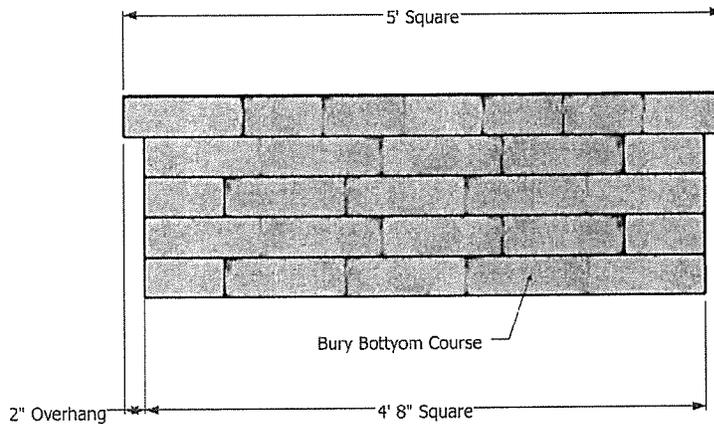
**Square Fire Pit**  
(4' 8" x 4' 8" x 20")

**General Notes:** Install grill station directly onto a flat and finished patio base. Overlay base a minimum of 8" beyond edges of grill station for maximum support.

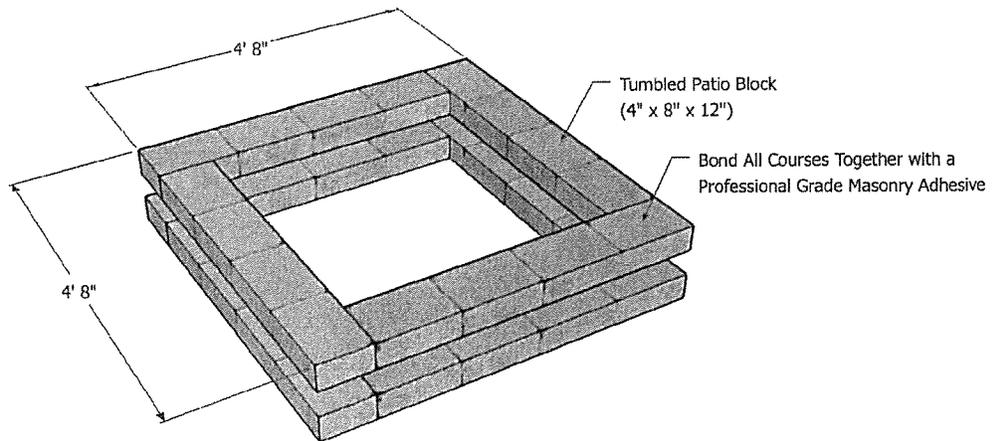
Lay and modify block as shown in each diagram. Unless otherwise specified, all blocks will be a standard 4" x 8" x 12" tumbled patio block.

Bond all courses to one another using a professional grade masonry adhesive.

**Installing on Pavers or Concrete Patio.** Eliminate course #1 and install course #2 directly on top of pavers or concrete.

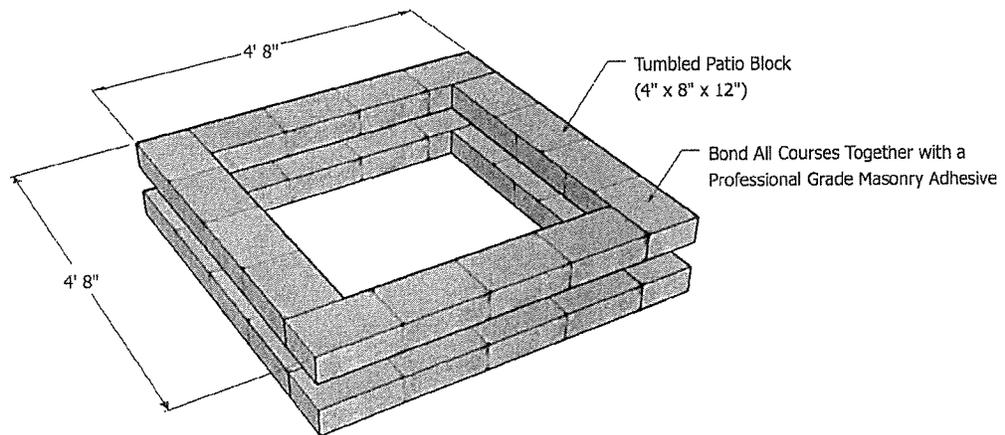


**Front View**



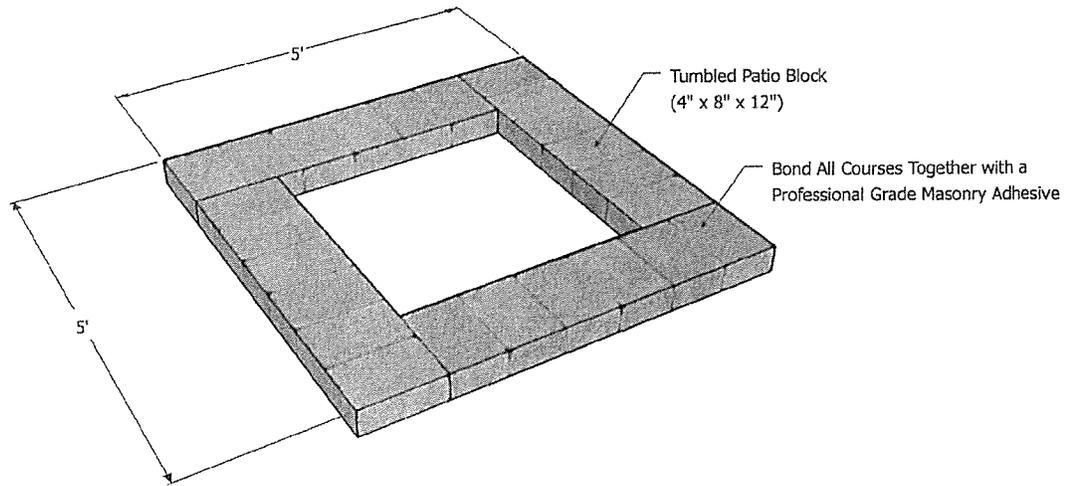
## Courses #1 & 3

FIRE PIT

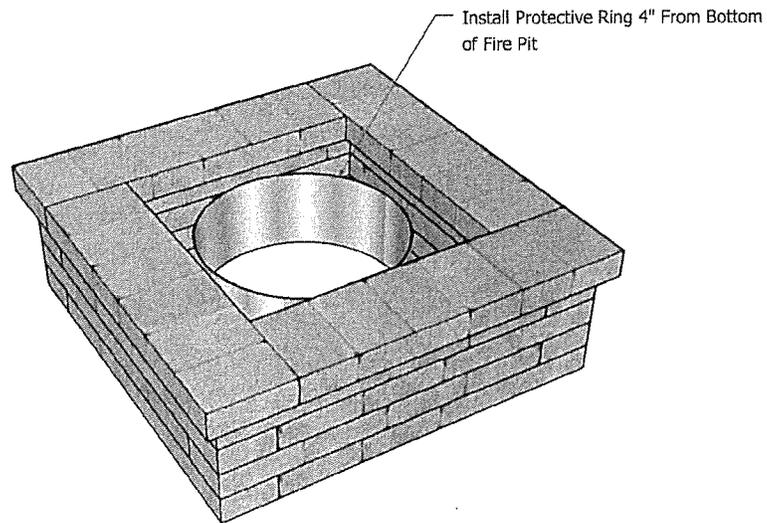


## Courses #2 & 4

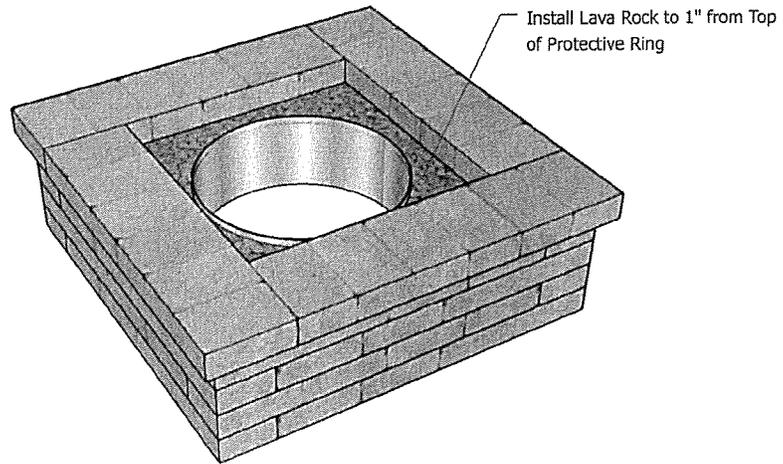
FIRE PIT



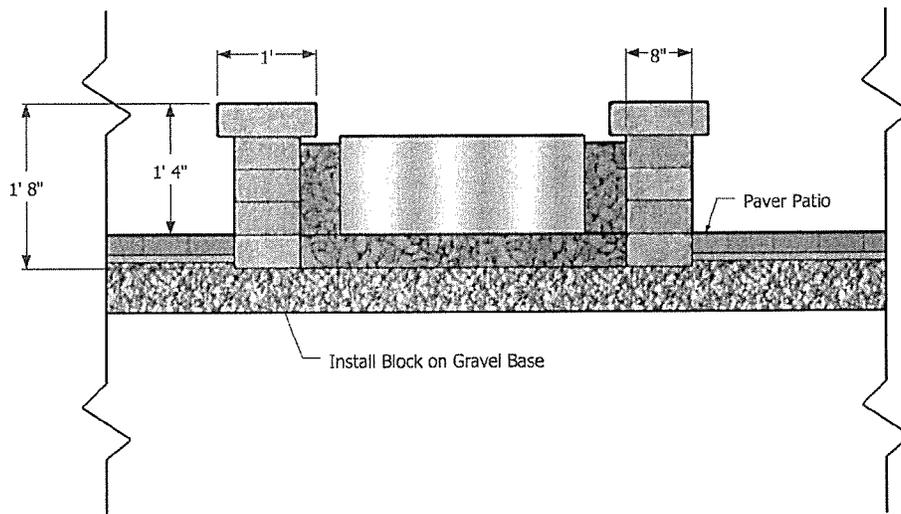
**Cap Course**  
FIRE PIT



**Protective Ring**  
FIRE PIT



**Lava Rock**  
FIRE PIT



**Cross Section View**  
FIRE PIT

**Fire Pit Material:**

**Fire Pit Block** = 64 pcs x \$ \_\_\_\_\_ (price/pc) = \$ \_\_\_\_\_ (total price)

Block Style = Tumbled Patio Block  
(4" x 8" x 12" tumbled block)

Blend = \_\_\_\_\_  
(see distributor for available blends)

**Fire Pit Cap** = 24 pcs x \$ \_\_\_\_\_ (price/pc) = \$ \_\_\_\_\_ (total price)

Block Style = Tumbled Patio Block  
(4" x 8" x 12" tumbled block)

Blend = \_\_\_\_\_  
(see distributor for available blends)

**Adhesive** = 5 tubes x \$ \_\_\_\_\_ (price/tube) = \$ \_\_\_\_\_ (total price)

Type = 10 oz. tubes of Professional Masonry Adhesive

**Protective Fire Ring** = 1 pcs x \$ \_\_\_\_\_ (price/pc) = \$ \_\_\_\_\_ (total price)  
(30" Dia. x 12" Tall or Equivalent)

**Lava Rock** = 8 cu. ft. x \$ \_\_\_\_\_ (price/bag) = \$ \_\_\_\_\_ (total price)