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THE FORGE FIRE

The Newsletter of the Indiana Blacksmithing Association, Inc.

An Affiliate Of The Artists-Blacksmiths' Association of North America, Inc.

IBA is a Not For Profit Indiana Corporation recognized by the IRS under section 501(c)(3)

9:30 AM is the regular meeting time for IBA Hammer-Ins
with beginner training available at 9:00 AM.
PLEASE MAKE SURE TO ASK FOR HELP!

**If you would like an IBA membership application form,
please contact Farrel Wells, Membership Secretary
(765) 768-6235.**

BULK LOTS ARE AVAILABLE TO DEMONSTRATORS,
SHOPS, SHOWS AND OTHERS WILLING TO MAKE THEM AVAILABLE.
WE APPRECIATE YOUR HELP.

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More nearby resources and organizations for blacksmiths:

Rural Smiths of Mid-America:
Meetings are on the first Saturday of each month
Call Ron Gill
317-374-8323 for details

IBA MEETING SCHEDULE

Check the latest *Forge Fire* for monthly **IBA** revisions.

May 19 2018	PRIDDY FARM OWENBURG, IN
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Jun 1-3 2018	IBA CONFERENCE TIPTON, IN
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Jun 16 2018	TBD
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Jul 21 2018	TBD
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- PGS 5-7 BEVELED SCROLLS
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- PGS 10-11 JOEL SANDERSON FIRE POT

Dates to Remember

- May 19 Priddy Farm Hammer In
- May 30 Forge Welding Class Conner Prairie
- May 31 Tong Making Class Conner Prairie
- June 1-3 IBA Conference

Editors Message

The IBA Conference is upon us. As I write this short update message the IBA Conference is only 3 weeks away. I am looking forward to it.

In what has become a valued tradition, we have pre-conference classes. This year Conner Prairie is offering two classes: Forge Welding on May 30 and Tong Making on May 31. I checked the Conner Prairie website a few days ago. The Forge Welding class was listed as sold out. You may be able to check for late cancelations. If you are interested in either of these classes I recommend signing up soon.

We had a unique and wonderful April Hammer In hosted by Joel Sanderson in Quincy, MI. My apologies to everyone for posting Joel's residence address in the previous Forge Fire. Thanks to Larry Whitesell and Dominick Andrisani, I hope everyone was able to find the shop. All in all we had over 30 people attend.

Joel's shop features 21 different machines driven by lineshaft and flat belts. The power is provided by a Reid single cylinder "oil field" engine. The engine starts and ends on kerosene fuel, but runs on a wide variety of liquid fuels. The driven devices include traditional machine tools (lathes, mills, grinders), traditional blacksmith devices (3 power hammers and forge blower) as well as some unique devices (DC dynamo, parts tumbler, air compressor, etc).

For the demonstration, Joel focused on the power hammers (250 lb Murray, 100 lb Hackney and 25 lb Little Giant), shaper and punch press. The shaper and punch press were used to consistently form elements that would be assembled in larger pieces. The power tools ensured consistency, so that multiple elements would fit in a defined space on the larger piece.

The 100 lb Hackney is an intricate and unique power hammer. The drive uses a Scottish yoke that has better balance than the more common crank throw designs. This means the hammer does not have the top rocking motion seen on other hammers. The Hackney also uses a self regulating air cylinder instead of the spring and 4-bar link between the ram and the crank. The ram includes an integral brake mechanism. The air cylinder and brake provides power, stroke and speed control similar to air/steam hammers.

One new feature that Joel showed us was a double side draft fire pot. Unlike a typical bottom draft fire pot, the side draft does not clog with clinker. The design also creates a long fire, rather than a deep fire. The long fire provides an even heat on longer work pieces.

Photos of Joel's shop are included on pages 8&9. Sketches of the double side draft fire pot are posted on pages 10 and 11.

IBA website: www.indianablacksmithing.org **IBA Facebook page:** www.facebook.com/groups/IndianaBlacksmithingAssociation/

IBA Satellite Groups and News

1) Sutton-Terock Memorial Blacksmith Shop

Meet: 2nd Saturday at 9 AM
 Contacts: Fred Oden (574) 223-3508
 Dennis Todd (574) 542-4886

3) Wabash Valley Blacksmith Shop

Meet: 2nd Saturday at 9 AM
 Contacts: Doug Moreland (217) 284-3457
 Max Hoopengarner (812) 249-8303

5) Maumee Valley Blacksmiths

Meet: 2nd Saturday
 Contacts: Clint Casey (260) 627-6270
 Mark Thomas (260) 758 2332

7) Rocky Forge Blacksmith Guild

Meet: 2nd Saturday at 9 AM
 Contacts: Ted Stout (765) 572-2467

9) Whitewater Valley Blacksmiths

Meet: 2nd Saturday
 Contact: Keith Hicks (765) 914-6584

11) Bunkum Valley Metalsmiths

Meet: 1st Saturday
 Contacts: Jim Malone (812) 725-3311
 Terry Byers (812) 275-7150
 Carol Baker (317) 809-0314

13) Satellite 13

Meet: 4th Saturday
 Contact: Bill Newman (317) 690-2455

2) Jennings County Historical Society Blacksmith Shop

Meet: 2nd Saturday at 9 AM
 Contact: Ray Sease (812) 522-7722

4) Fall Creek Blacksmith Shop

Meet: 4th Saturday at 9 AM
 Contacts: Gary Phillips (260) 251-4670
 Dave Kline (765) 620-9351

6) St. Joe Valley Forgers

Meet: 4th Saturday at 9 AM
 Contacts: Bill Conyers (574) 277-8729
 John Latowski (574) 344-1730

8) Meteorite Mashers

Contacts: Mike Mills (812) 633-4273
 Steve King (812) 797-0059
 Jeff Reinhardt 812-949-7163

10) One-Armed Blacksmith Shop

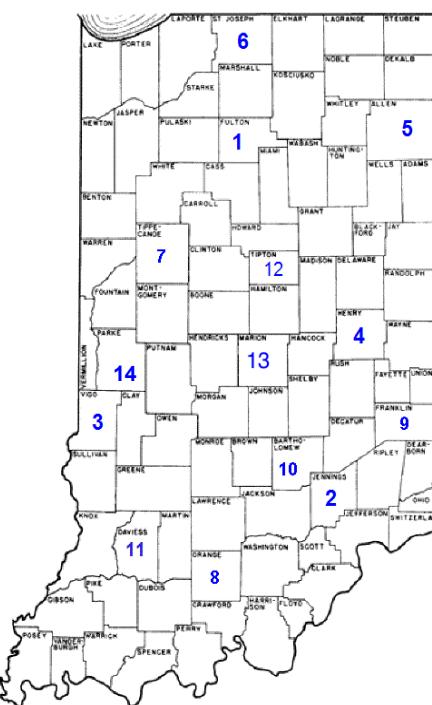
Meet: 1st Saturday
 Contact: Tim Metz (812) 447-2606

12) "Doc" Ramseyer Blacksmith Shop

Location: 6032W 550N, Sharpsville, IN 46060
 Meet: 3rd Sunday at 2 PM
 Contact: Charles Gruell (765) 513-5390

14) Covered Bridge Blacksmith Guild

Meet: 1st Saturday
 Contact: John Bennett (812) 877-7274



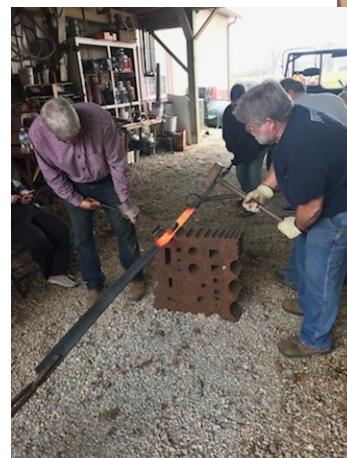
Jennings County Historical Society Blacksmith Shop

The Vernon blacksmiths were back at home base and very active as this was a work day for us. Ray Sease, under the expert advice of Harry Husby designed a brake system for our power hammer . Later Nathan Pelvor assisted Ray in implementing this design into a reality. We had a full work crew enlarging our shop in anticipation of the power hammer demo . They worked in the mud, rain, and all the frustrations that go with it. Our hats off to you men! Charlie Helton , Brad Weaver, and Bill Kendrick were instrumental in getting this project going- ie. ordering and delivering supplies, getting permits, organizing work, etc. Many were involved in the work who remain unnamed for fear of leaving someone out. Meanwhile in the shop, after Ray finished his work, there were some young men who anxious to beat on hot steel ! William Creviston worked on a cleaver, Alex Spellman a wall hanger, and Nathan Pelvor a real nice leaf with a unusual design, which wouldn't you know, Ray Sease put in his pocket. Next meeting looks like another work day. Now about the upcoming Demo: Date: July 14 & 15 Price \$15 per day at the door or \$25 prepaid for both days. Send checks, money order to Charlie Helton, 2703 South Water Plant Road, Westport, IN 47283. Inquiries to Ray Sease cell # 812 521 2035 Paul Bray

IBA Satellite Groups and News (continued)

Rocky Forge Blacksmith Guild

The Rocky Forge Blacksmiths had a very productive meeting this month. Several members worked on straightening out metal wagon wheels into handrails for a local church. Members young and old forged tools, decorative pieces, or just practiced their skills.



Meteorite Mashers

The Meteorite Mashers met at Jeff Reinhardt's shop in Floyds Knobs. Special guest was Dave Custer and his wife Sarah and Brother Titus. There was sessions of team striking, several hammers made, beginners classes and the Ladies of the family Sorg got a class in copper working ending up with a bracelet on each arm. Mike Mills was at the meeting to work with the beginner class and then raced off to northern Indiana for his Daughters college graduation. The next meeting will be at Dave Kunkler's shop in Branchville Indiana.



Fall Creek Blacksmith Shop

Only 5 smiths showed up. Gary was on vacation out west. We worked on the Conference contest piece. Some engineering changes was made. Eric and I took the project home do to time frame involved. June is near. Reported by Dave Wells.



Beveled Scrolls

James Bequette, Cadet, Missouri

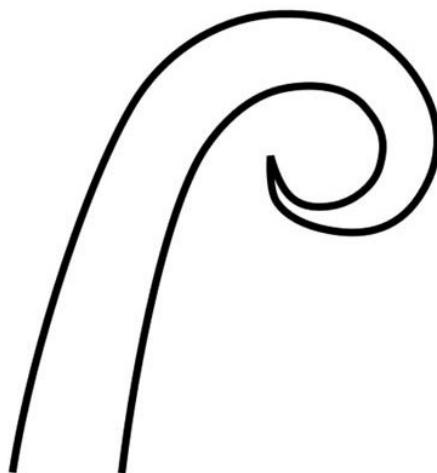


This article reprinted from May/June 2018 edition of California Blacksmith newsletter

James Bequette, a former Hollister resident in the early 2000s, submitted this back in 2012. James wrote "I was blessed with a scholarship from ABANA and I've been trying to give back a little knowledge."

This is a fun element that adds a bit of flair to a project. The ABANA National Curriculum Grille requires two C-scrolls that utilize this element as well as four beveled leaf scrolls which are very similar in style and creation. It is a little difficult to explain in two dimensional drawings, so try a couple of test pieces. Practice makes perfect.

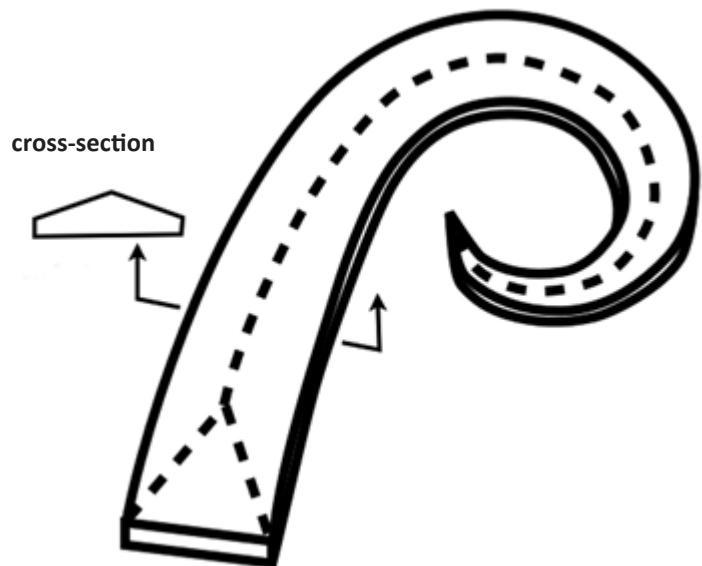
Start by forging a long, thin taper. Be sure to thin the tip down to a point (*right*) as it will make it a little easier to scroll and require less work to bevel. I also like to chamfer the edges to get rid of the sharp edges, but you can make that call based on your needs.



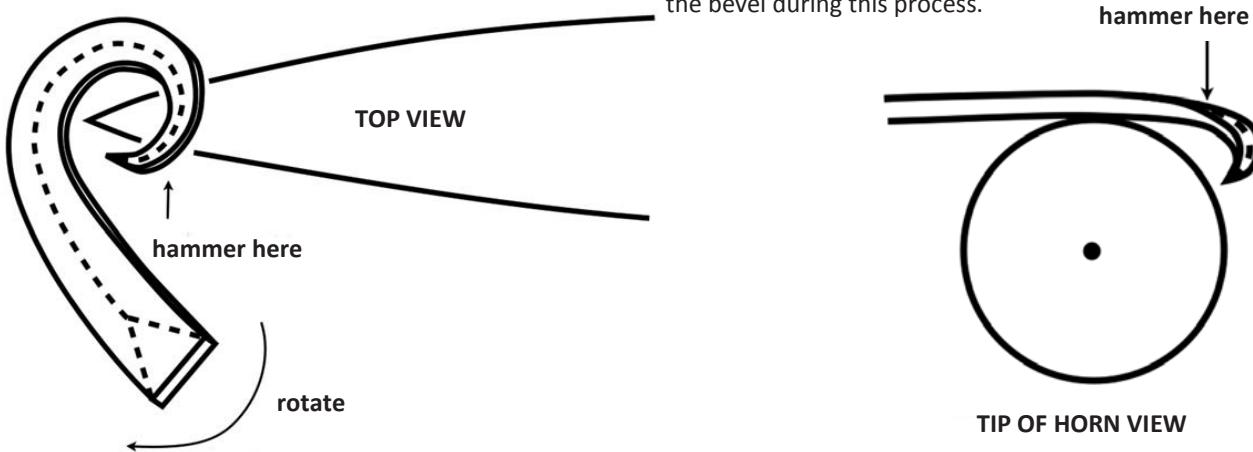
Begin scrolling on the horn until you reach the desired shape. (*left*) This part of the process will ultimately dictate the final shape of the scroll. Before you begin to bevel you must decide whether this will be a right- or left-facing scroll and make sure the scroll is facing in the appropriate direction – right for right, left for left.

Beveled Scrolls

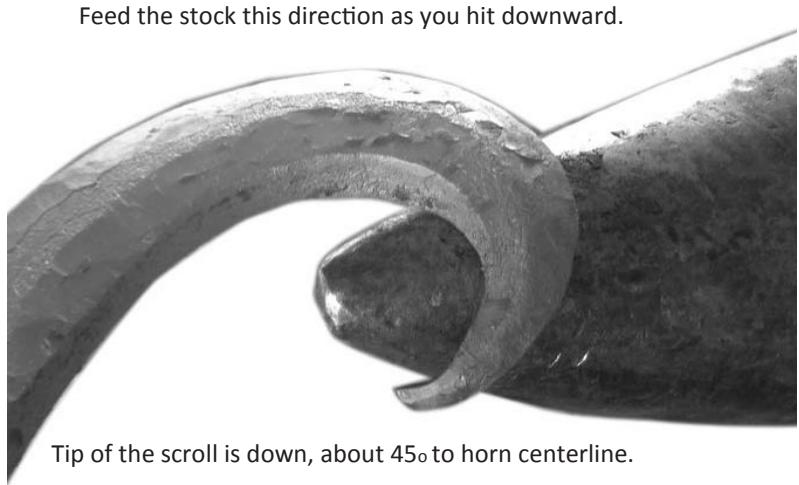
Feed the stock this direction as you hit downward. Tip of the scroll is down, about 45° to horn centerline. Now you are ready to bevel the scroll. Establish a centerline through the scroll and begin to bevel each side a couple of inches back from the tip. As a general rule of thumb, I bevel to the top of the scroll and then gradually reduce the bevels to the outside of the bar, but you may need more or less, depending on the desired shape. You will notice that when you bevel the outside of the scroll, it will tighten up and when you work the inside, it will open. (*right*) At this stage, the back of the scroll is flat.



The trick to turning the scroll 90° to the parent bar is to keep the centerline of the scroll perpendicular to the centerline of the anvil horn and rotate the scroll as you feed it over the horn. A wooden or rawhide mallet works well to protect the bevel during this process.



Once you've made the transition, you can finish the scroll using your preferred method.

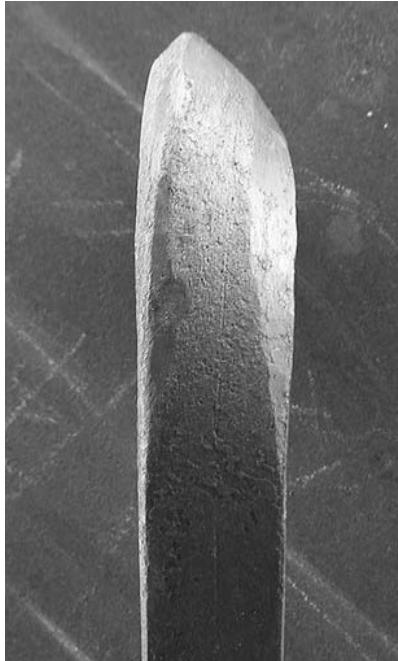


Tip of the scroll is down, about 45° to horn centerline.

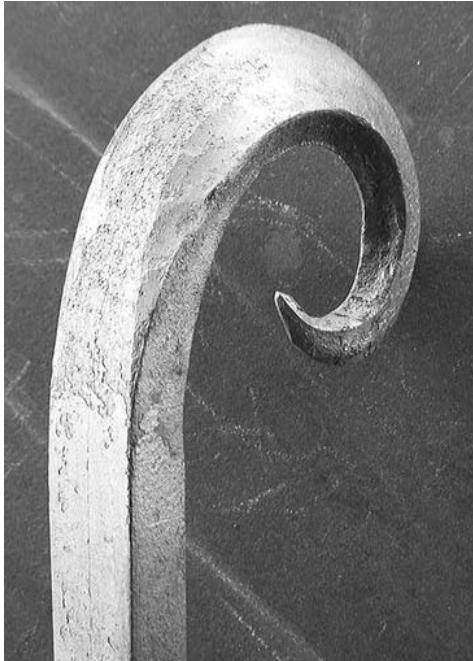
Beveled Scrolls

Editor's Note. When I first encountered this scroll, I found both the turning step and the final product difficult to visualize. To aid in visualizing, here are several views of the completed scroll.

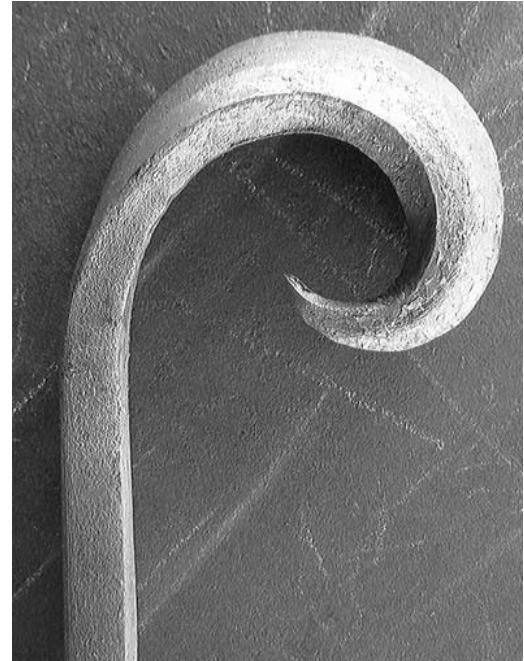
Back



~ 45°



Side



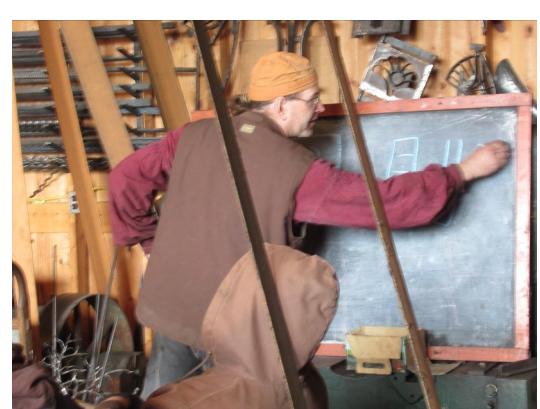
Another ~ 45°



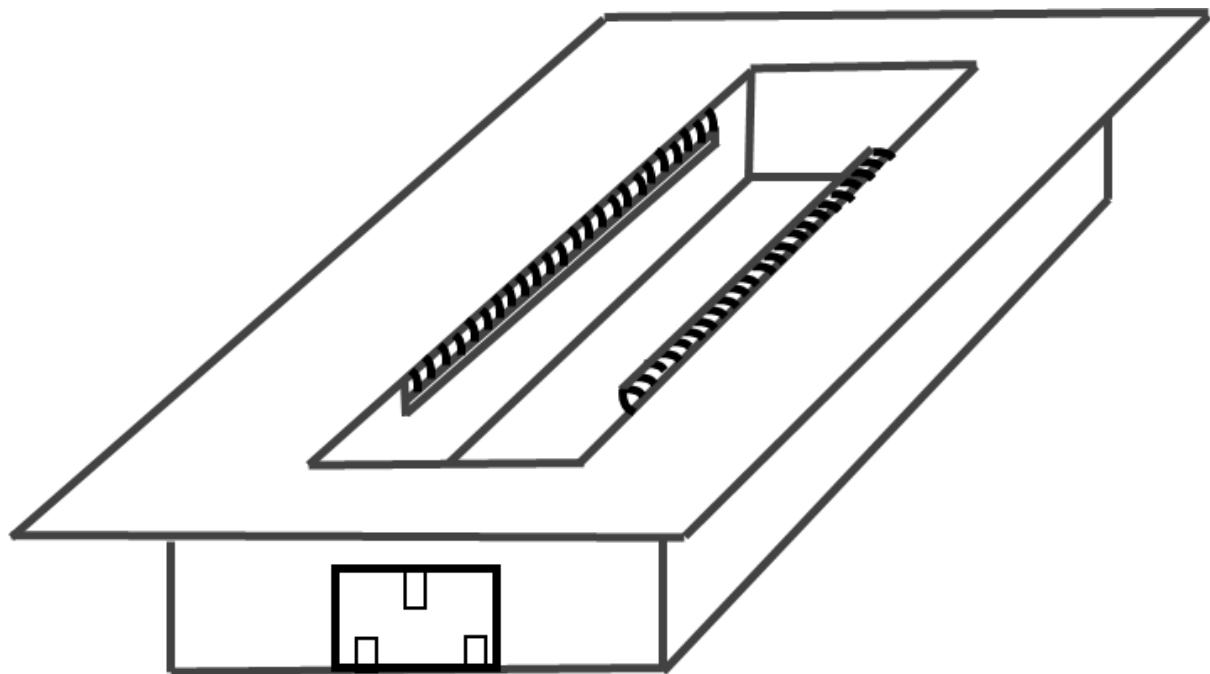
Front



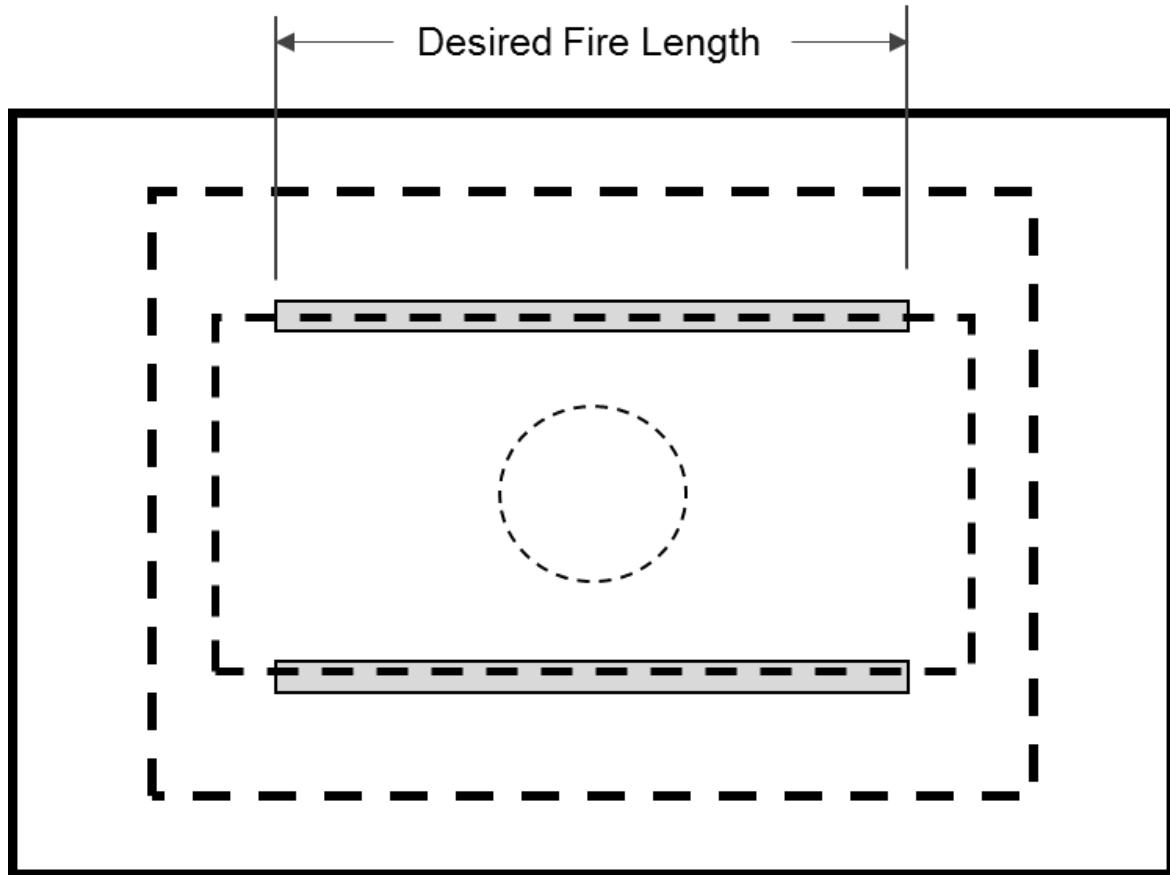
Photos from Joel Sanderson's Shop





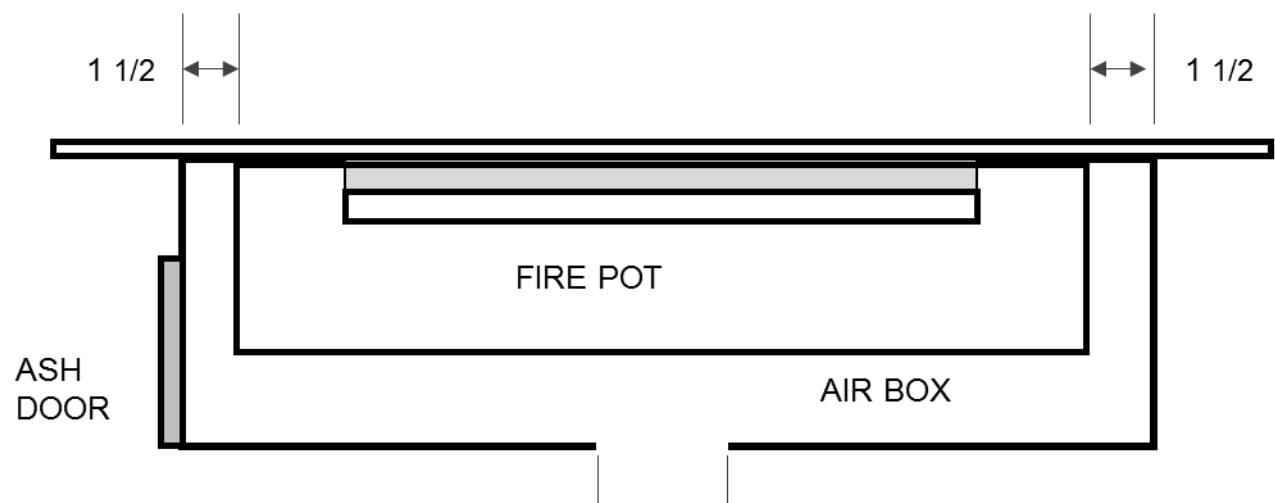
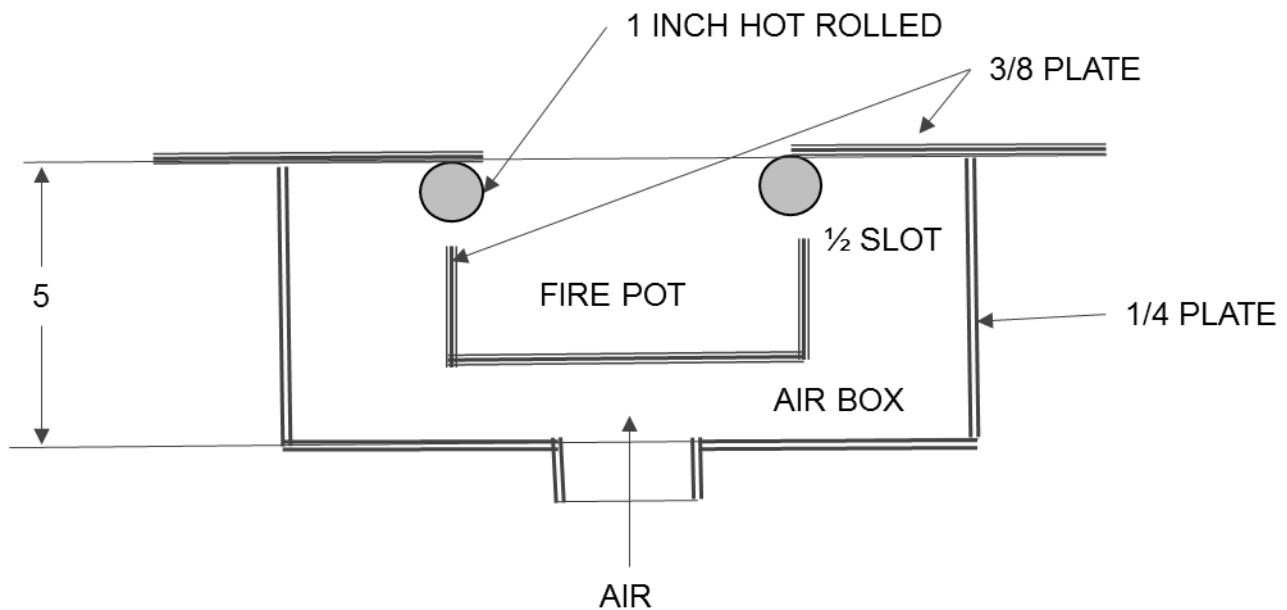


JOEL SANDERSON'S DOUBLE SIDE DRAFT FIRE POT



TOP VIEW

JOEL SANDERSON'S DOUBLE SIDE DRAFT FIREPOT



FRONT VIEW



The FORGE FIRE
Newsletter of the
Indiana Blacksmithing Association, Inc.

Farrel Wells *Membership Secretary*
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Dunkirk, IN 47336-8807

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sender

May 19 Hammer In Priddy Farm

7052 South Orchard Lane, Owensburg, IN

Directions: On Highway 58 directly across from the town of Owensburg turn South on Orchard Lane. Stay on Orchard Lane until you see large wood sign stating Priddy Farm, turn right in drive and go to shop.

On Highway 45 go south until you are at the junction of 45/58 Crane Navy Base. Turn left (east) go to second county road, Orchard Lane and turn right. Follow Orchard Lane until you see Large wooden sign that says Priddy Farm, turn right in drive and go to shop.

Pitch In Lunch, bring a chair