

Lighthouse Pepper Grinder Project

April 25, 2020

MSWG – Zoom Video Demonstration

Demonstrator: Bob Wolfe

This demo is designed to show an occasional woodturner how to take a 3” round x 13” long baseball billet of hard wood into a novel, attractive, and utilitarian piece of art. The project should take between one and one-half to two hours to complete, start to finish. This is a great project that yields a low cost, attractive, fun piece that is great to share as a gift with friends and family.

LET’S GET STARTED!

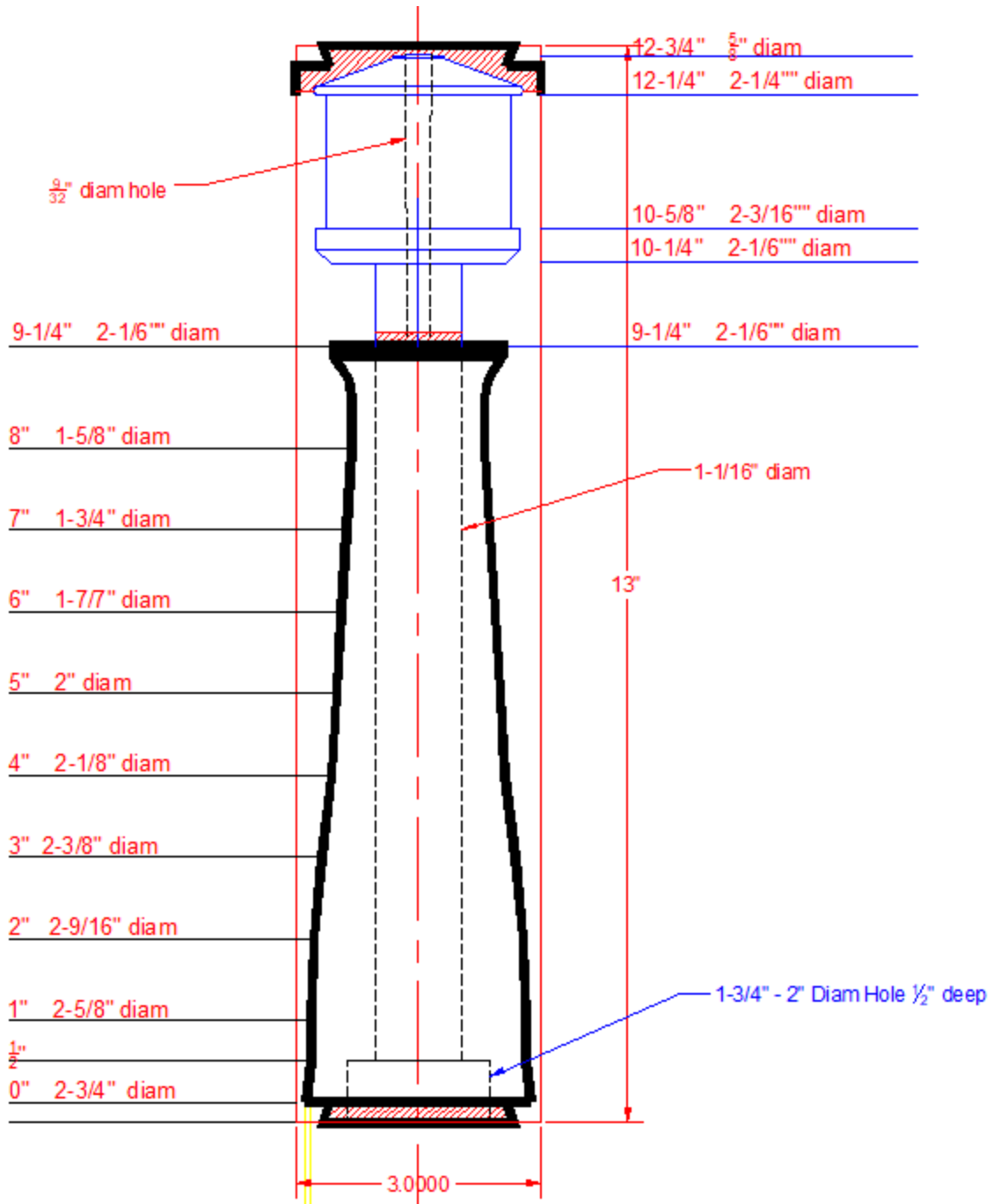
Materials:

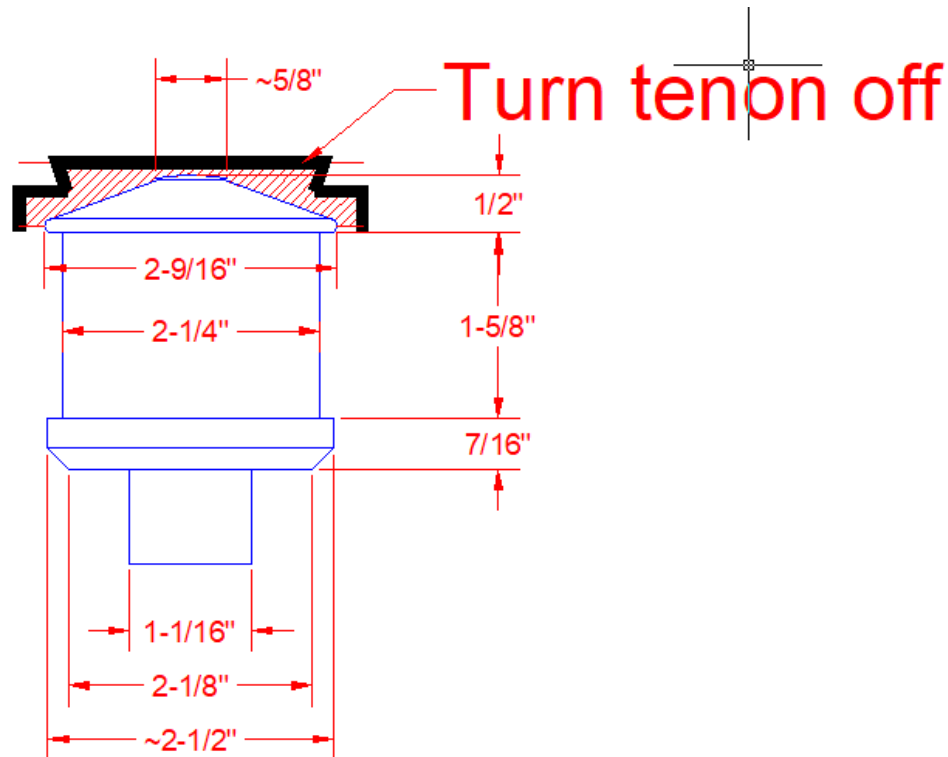
- 3” round x 13” baseball billet or 3”x3”x 13” block of hard wood (the more interesting the grain, the more attractive the piece).
- 1 ea. Deluxe Pepper Mill Kit, size 12” from Craft Supplies USA
- 2 ea. 20mm round faceted rhinestone from “The-Craft-Outlet.com”
- your favorite finish (I use Gemini Spray Lacquer – quick drying, durable, great finish, EASY)
- Gemini #LA1131 – touch-up sanding sealer
- Gemini #LA190 – Gloss 90 degree high solids lacquer
- Also comes in variety of gloss to flat

Tools:

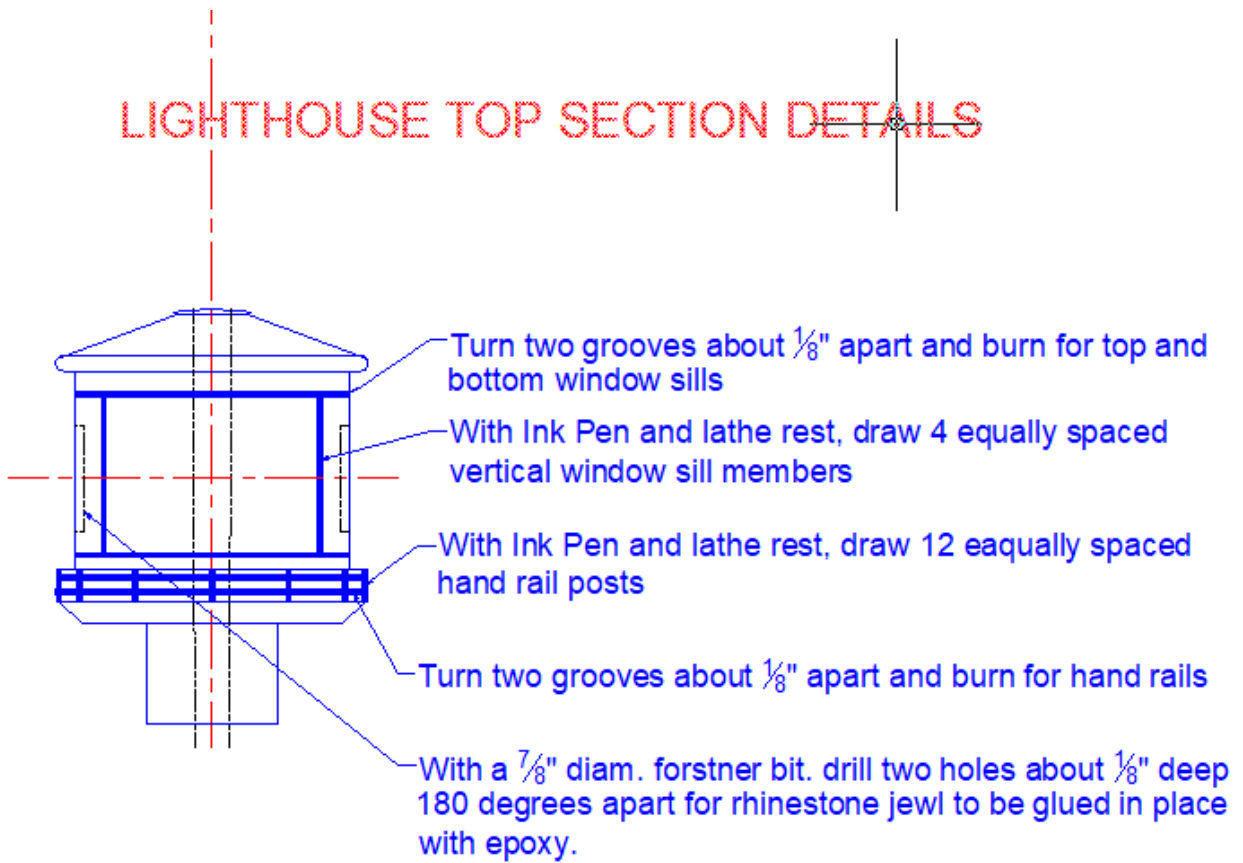
Scroll chuck with #2 jaws (grip 1-5/8 – 2-7/8”
Drill chuck with #2 taper (to fit your tailstock)
Stub center drive center (w/ #2 taper – for head stock
Epoxy Glue (5 min epoxy)
1-1/16” Forstner bit
6” Extension rod for Forstner bit
Small cutoff saw
Burning wire
Skew gouge
Outside caliper
Rule
Indian Ink fine marker (PITT Artist pen) does not bleed
Bedan
Wood burner with coiled insert
9/32” drill bit
Live center (w/ #2 taper – for tailstock) with cone
1-3/4” Forstner bit
7/8” Forstner bit
Electric Drill
3/8” spindle gouge
Spindle roughing gouge

Inside caliper
Parting tool (thin)
Sandpaper 150 – 600 grit





LIGHTHOUSE TOP SECTION DETAILS



TURNING STEPS

1. Mount 3" x 3" x 13" blank between centers.
2. Turn blank round (roughing gouge or other suitable tool)
3. Cut dovetail tenons to fit chuck on both ends (Skew or spindle gouge) ~ ¼" deep and shaped to fit your chuck.
4. Measure ~ 9-1/2" from the bottom of the blank and mark. This will be the part line for the top of the lighthouse.
5. You can rough turn the bottom shape of the lighthouse base, leave enough wood for final shaping
6. Remove the blank from the lathe and install your scroll chuck to the TOP of the lighthouse. Secure tight to chuck.
7. Check blank runs true on both ends.
8. Insert a 3/8" drill chuck in the tailstock with a 1-3/4"-2" forstner bit.
9. Reduce the speed of the lathe to around 400-500 rpm and drill into the bottom of the blank ~ ¾" deep.
 - i. Note: you will be cutting off the ¼" deep tenon when the final shaping and sanding is complete.
10. Remove the larger forstner bit and install a 1-1/16" diam forstner bit. Bore the hole towards the center of the blank.
11. Reinstall the 1-1/16" bit with a 6" extension and bore the hole to within an inch of the parting cut. This leaves a 1" section at the top of the lighthouse base to be back bored once the top portion of the lighthouse is parted from the base.
12. Install a live center to the tailstock and snug the cone into the 1-1/16" hole previously bored.
13. With a skew or other suitable tool, true up the bottom tenon.
14. Now part the base of the lighthouse from the blank. Remove the TOP of the lighthouse blank from the chuck and put aside.
15. Remount the base of the lighthouse in the scroll chuck.
16. Insert a 3/8" drill chuck and 1-1/16" forstner bit in the tail stock and back bore the top of the base.
17. Remount the live center with cone piece and snug against the top of the lighthouse base.
18. With roughing gouge and/or 3/8" spindle gouge finalize shape of lighthouse base (see sketch above)
19. Remove base from lathe.
20. Install the top portion of the lighthouse in a scroll chuck.
21. Install the drill chuck and 9/32" drill bit and bore a hole through the center of the blank.
22. Reinstall the live center with cone and snug this in the 9/32" hole/
23. Measure the inside diameter (ID) of the top of the base with a caliper
24. Turn a tenon to fit snug inside the top of the lighthouse base (approximately ¾" long)
25. Check the fit to the base. (Note: this should be a light snug fit, you will use this fit to turn the details of the top of the lighthouse.
26. Once you have the fit, remove the top section blank from the scroll chuck and remount the bottom.
27. Inset the top blank into the top of the base.
28. Use the live center with cone to hold the top section secure in the base.

29. With bedan, skew, and gouges, shape the top section of the lighthouse as per the sketch above.
30. Once you are satisfied with the shape, sand the top section.
31. Embellish the top with hand rails, frame the windows, etc. (see sketch above).
 - i. +9



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