

Select an 8' KD cedar 4 x 4 with near-centered pith

Cut the 4 x 4 into the following lengths: Lower Post: 28", Horizontal beam: 24",

Upper Post 32.5" OR 24" if one chooses to make a separate "shortie" top of 10" length-see sketch. Make cuts to minimize knots or checks in critical regions.

**HORIZONTAL BEAM:**

MOUNT 24" LENGTH BC (BETWEEN CENTERS)

MARK OUT TENON AND TRANSITION TO ROUND REGIONS

ROUGH TENON OVERSIZE, ROUGH POMMEL (TRANSITION TO SQUARE)

WITH PARTING TOOL

FINISH TENON AND POMMEL WITH SKEW

TURN BALL END TO 3.5" DIA., MARK AND CREATE FILLETS

TURN BALL REGION TO DIA., CREATE BALL LEAVING SPIGOT

CREATE TRANSITION TO BEAD FROM SQUARE, TURN BEAD

SAND ALL 100 & 150, PART AT SPIGOT ON BALL, HAND SAND PARTOFF AREA

**LOWER POST:**

FIT THE LOWER POST END TO A LOEWS 18" STEEL EARTH SPIKE

MOUNT BC, TURN ALL BEYOND THE SQUARE SPIKE AREA ROUND

CREATE LOWER FILLETS AND BEAD

LAY OUT UPPER BEAD, TENON AND TAPER REGION

PART IN BELOW UPPER BEAD AND FORM TAPER

TURN 2.125" TENON, VERIFY SNUG FIT WITH DRILLED MORTISE SECTION

TURN TOP BEAD, SAND ALL EXCEPT TENON, 100 & 150

**UPPER POST: (32.5" VERSION)**

DRILL CROSS MORTISE, FIT HORIZONTAL BEAM TO LAY OUT RABBET, CREATE RABBET (TABLE SAW AND ROUTER)

FOR A 40" BED LATHE (OR LARGER): MOUNT THE 32.5" SECTION BC, TURN BEAD END AND DECORATIVE TOP AREAS ROUND WITH ROUGH TRANSITIONS TO SQUARE

CREATE CHUCK TENON AT BALL END, MOUNT TENON IN CHUCK WITH TAILSTOCK SUPPORT AT BEAD END.

INSTALL STEADY REST AT SMOOTH ROUND REGION AT BEAD END

REMOVE TAILSTOCK SUPPORT AND DRILL MORTISE (1", 1.5", 2.125" STEPS)

FIT BULLNOSE CONE ON TAILSTOCK BEARING, SUPPORT TURNING WITH CONE IN MORTISE WITH STEADY REST REMOVED.

FORM BOTTOM BEAD (DIA MATCHING LOWER POST TOP BEAD ) AND ADJACENT TAPER TO SQUARE SECTION

REMOVE CHUCK, REMOUNT WORKPIECE BC, RETRUE UPPER FEATURE AREA

BEGIN TOP FEATURE WITH DEEP V-CUT AT BASE OF 5"-LONG VASE FORM, TURN FINISHED TRANSITION TO SQUARE BELOW V-CUT

DEFINE VASE RIM WITH ANOTHER DEEP V-CUT, CREATE PROFILE BETWEEN

CREATE FILLETS AND BEAD, FORM DEEP FILLET BELOW BALL, TURN BALL

LEAVING SUPPORT SPIGOT AT TOP OF BALL.

SAND ALL 100 & 150, PART AT SPIGOT ON BALL, HAND SAND PARTOFF AREA

**UPPER POST (24” VERSION) FOR SHORTER BED LATHES:**

DRILL CROSS MORTISE, FIT HORIZONTAL BEAM TO LAY OUT RABBET, CREATE RABBET (TABLE SAW AND ROUTER)

MOUNT THE 24” SECTION BC, TURN BEAD END AND TENON TOP AREAS ROUND WITH ROUGH TRANSITIONS TO SQUARE

CREATE CHUCK TENON AT TOP END, MOUNT TENON IN CHUCK WITH TAIL-STOCK SUPPORT AT BEAD END.

INSTALL STEADY REST AT SMOOTH ROUND REGION AT BEAD END

REMOVE TAILSTOCK SUPPORT AND DRILL MORTISE (1”, 1.5”, 2.125” STEPS)

FIT BULLNOSE CONE ON TAILSTOCK BEARING, SUPPORT TURNING WITH CONE IN MORTISE WITH STEADY REST REMOVED.

FORM BOTTOM BEAD (DIA MATCHING LOWER POST TOP BEAD ) AND ADJACENT TAPER TO SQUARE SECTION

REMOVE CHUCK, REMOUNT WORKPIECE BC, RETRUE UPPER FEATURE AREA

CREATE TOP 2.125” DIA X 2”LONG TOP TENON, VERIFY SNUG FIT WITH DRILLED MORTISE SECTION

SAND ALL EXCEPT TENON WITH 100, 150.

**SHORTIE TOP FOR THE 24” UPPER POST:**

CLAMP A SQUARE END 4 X 4 X 10” IN A DRILL PRESS VISE, BORE A 2 1/8” DIA X 2” DEEP CENTERLINE MORTISE.

MOUNT BC WITH BULLNOSE CONE ON TAILSTOCK END IN MORTISE HOLE

TURN ROUND, CREATE VASE FORM BASE WITH DEEP V-CUT, DITTO RIM, THEN PROFILE BETWEEN.

CREATE FILLETS AND BEAD, FORM DEEP FILLET BELOW BALL, TURN BALL LEAVING SUPPORT SPIGOT AT TOP OF BALL.

SAND ALL 100 & 150, PART AT SPIGOT ON BALL, HAND SAND PARTOFF AREA

## **ASSEMBLY AND INSTALLATION:**

CLAMP THE HORIZONTAL BEAM SECURELY INTO THE CROSS MORTISE AND DRILL THROUGH FOR A 1/2" HARDWOOD DOWEL TO SECURE THAT ASSEMBLY.

INSTALL A CENTERED SUPPORT BOARD FOR THE MAILBOX. THE HORIZONTAL POST AND OTHER PROJECT DIMENSIONS WERE SCALED ON A LOEWS "SENIOR SIZE" MAILBOX OF 21 5/16" L X 10 1/4"H X 8 1/8" W WHICH REQUIRES A 7/8" THICK BOARD APPROXIMATELY 8" X 21"

DO NOT SECURE THE OTHER TENON/MORTISE FEATURES UNTIL THE EARTH-SPIKE IS DRIVEN TO ALLOW FOR BEST ALIGNMENT OF THE ASSEMBLY TO THE STREET. NOTE THAT THE LOWER POST IS ALIGNED WITH A DEFINATE FACE OF THE EARTHSPIKE SOCKET, SO TAKE CARE TO RETAIN THAT FACE TO THE STREET WHEN DRIVING THE SPIKE!

**DO NOT** USE THE LOWER POST TO DRIVE THE EARTHSPIKE , AS THIS WOULD DEFORM THE TENON AND RUIN THE PIECE.

DRIVE THE EARTHSPIKE WITH A 3' LENGTH OF 4X4 PINE OR SPRUCE OR TWO 2 X 4'S SCREWED TOGETHER. USE A HEAVY (6# WORKS GREAT) SLEDGE AND FREQUENT USE OF A LEVEL TO ENSURE THE SPIKE STAYS STRAIGHT.

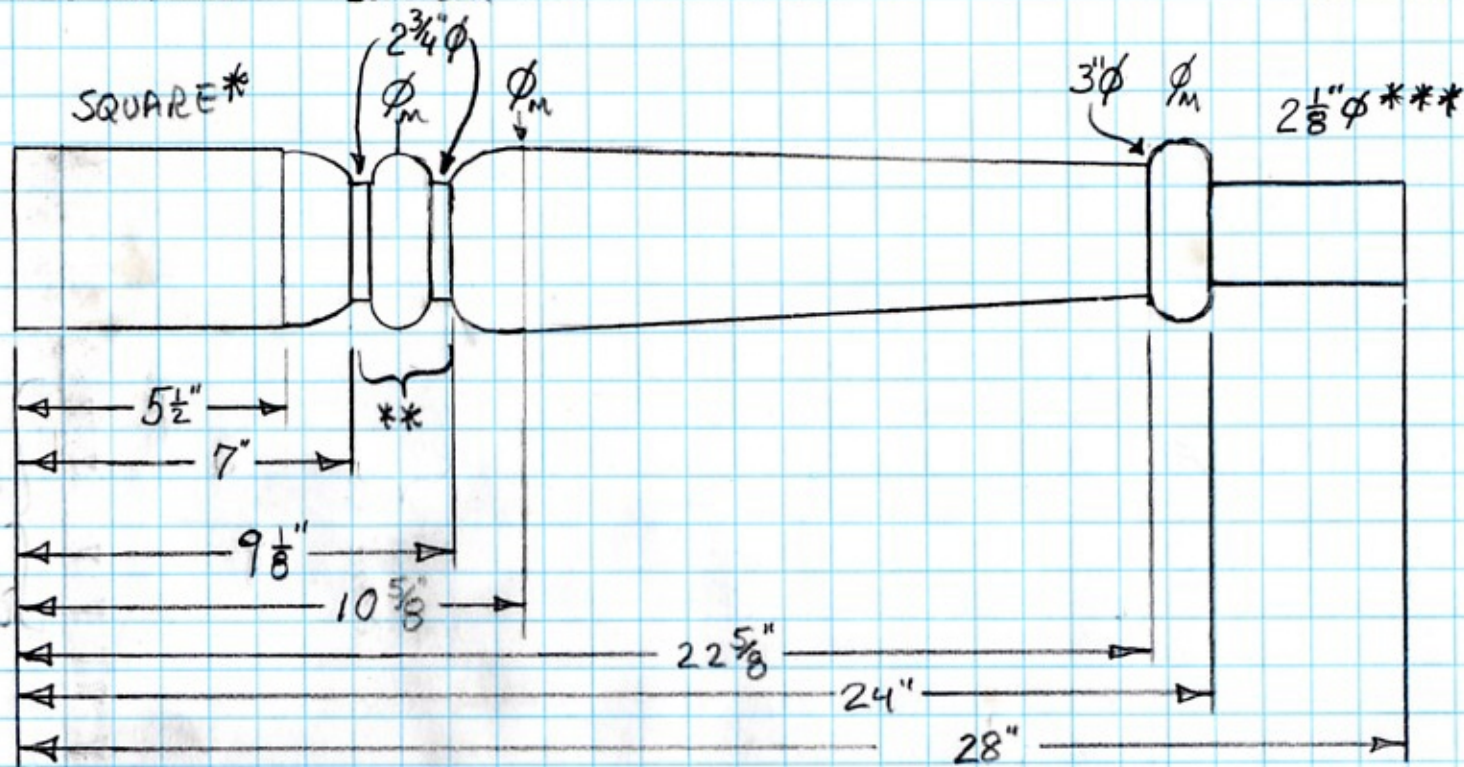
USPS WANTS THE MAILBOX DOOR TO BE 6" BACK FROM THE CURB SO MEASURE ACCORDINGLY

WHEN THE EARTHSPIKE IS IN PLACE, GENTLY TAP THE LOWER POST INTO THE EARTHSPIKE SOCKET AND INSTALL THE SECURING SCREWS, THEN INSTALL THE UPPER POST/HORIZONTAL POST ASSEMBLY. IF YOU CHOOSE TO NOT PIN THE UPPER AND LOWER POSTS TOGETHER (WITH A SINGLE DECK SCREW), ONE COULD CLAIM THE FEATURE OF HAVING A "LAZY SUZAN" MAILBOX WHICH ROTATES ONTO THE SIDEWALK FOR UNLOADING!

FOR THOSE WHO MADE THE 24" TOP POST VERSION WITH THE DETACHABLE 10" TOP FEATURE ELEMENT, CONSIDER SEASONAL VERSIONS OF THE FEATURE ELEMENT LIKE: A SNOWMAN, ICE CREAM CONE, FLOWER POT, PUMPKINFACE, TURKEY, AND A CHRISTMAS TREE! ENJOY THE SEASONS!

"TURNERS MAILBOX" LOWER POST SECTION

PFM MAR. 2010



\* FIT SQUARE END TO LOEW'S 18" EARTH SPIKE

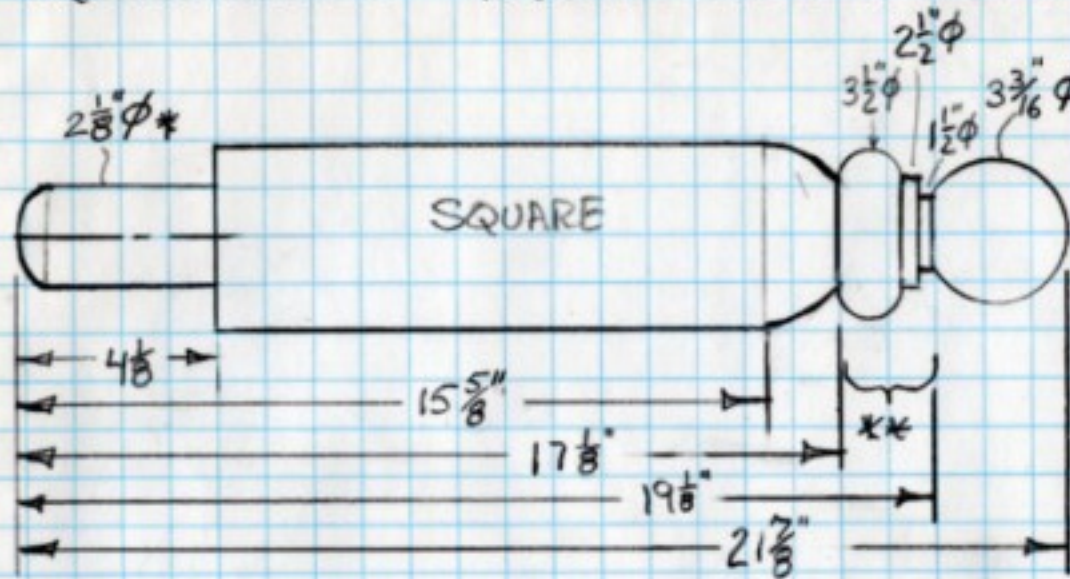
\*\*  $\frac{3}{8}$ " fillet,  $1\frac{3}{8}$ " wide bead,  $\frac{3}{8}$ " fillet

\*\*\* FIT TO DRILLED MORTISE TEMPLATE

MATERIAL: KD WHITE CEDAR  
 $\sim 3\frac{5}{8}$ " SQUARE, ROUND EDGES

# 'TURNERS MAILBOX' HORIZONTAL BEAM SECTION

PFM. MAR. 2010



MATERIAL: KD WHITE CEDAR  
~  $3\frac{5}{8}$ " SQUARE, ROUND  
EDGES.

FITS "SENIOR SIZE" MAIL BOX  
 $21\frac{5}{16}$ " L,  $10\frac{1}{4}$ " H,  $8\frac{1}{8}$ " W.

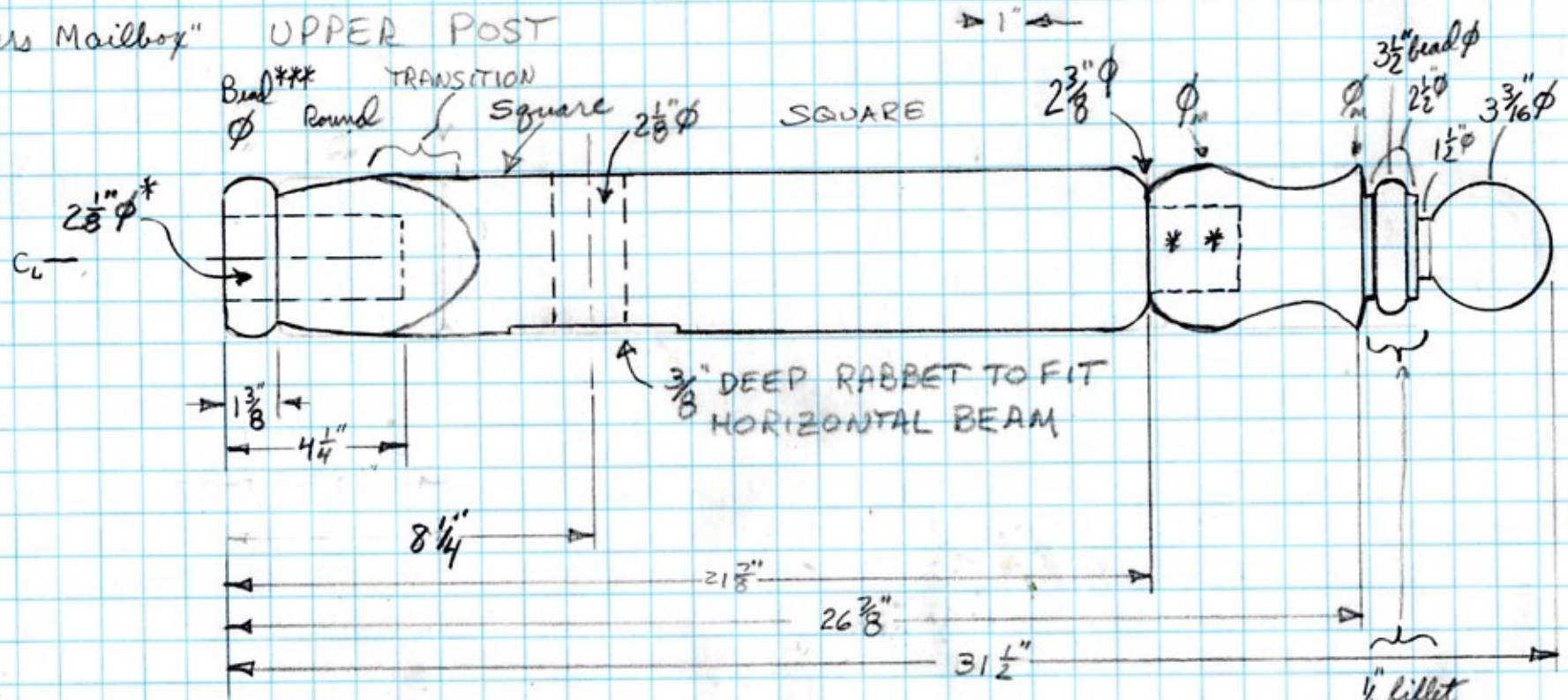
REQUIRES  $\frac{7}{8}$ " THICK BOARD  
APPROX  $8 \times 21$ "

\* FIT TO DRILLED MORTISE TEMPLATE

\*\*  $1\frac{3}{8}$ " WIDE BEAD,  $\frac{1}{4}$ " FILLET,  $\frac{1}{4}$ " FILLET

"Turners Mailbox"

UPPER POST



Material: KD WHITE CEDAR ~  $3\frac{5}{8}$ " SQUARE, ROUND EDGES

\* DRILL WITH  $2\frac{1}{8}$ " FORSNER BIT

\*\* OPTIONAL ADDITIONAL JOINT FOR SHORTER BED LATHES.

\*\*\* BEAD  $\phi$  AND TRANSITION  $\phi$  TO MATCH THAT OF LOWER POST

PFM MAR. 2010