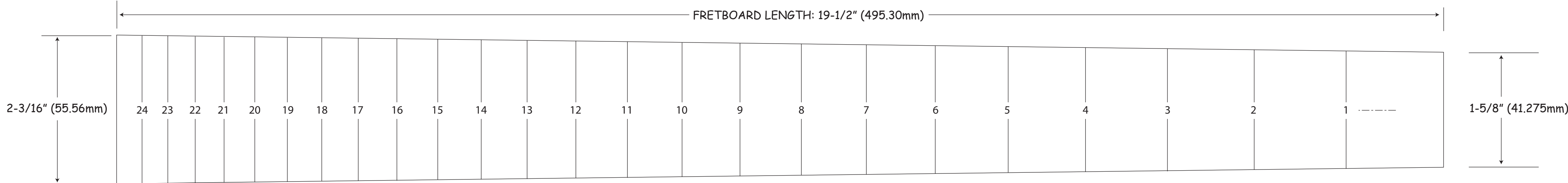


12" (305MM) FRETBOARD
RADIUS TEMPLATE



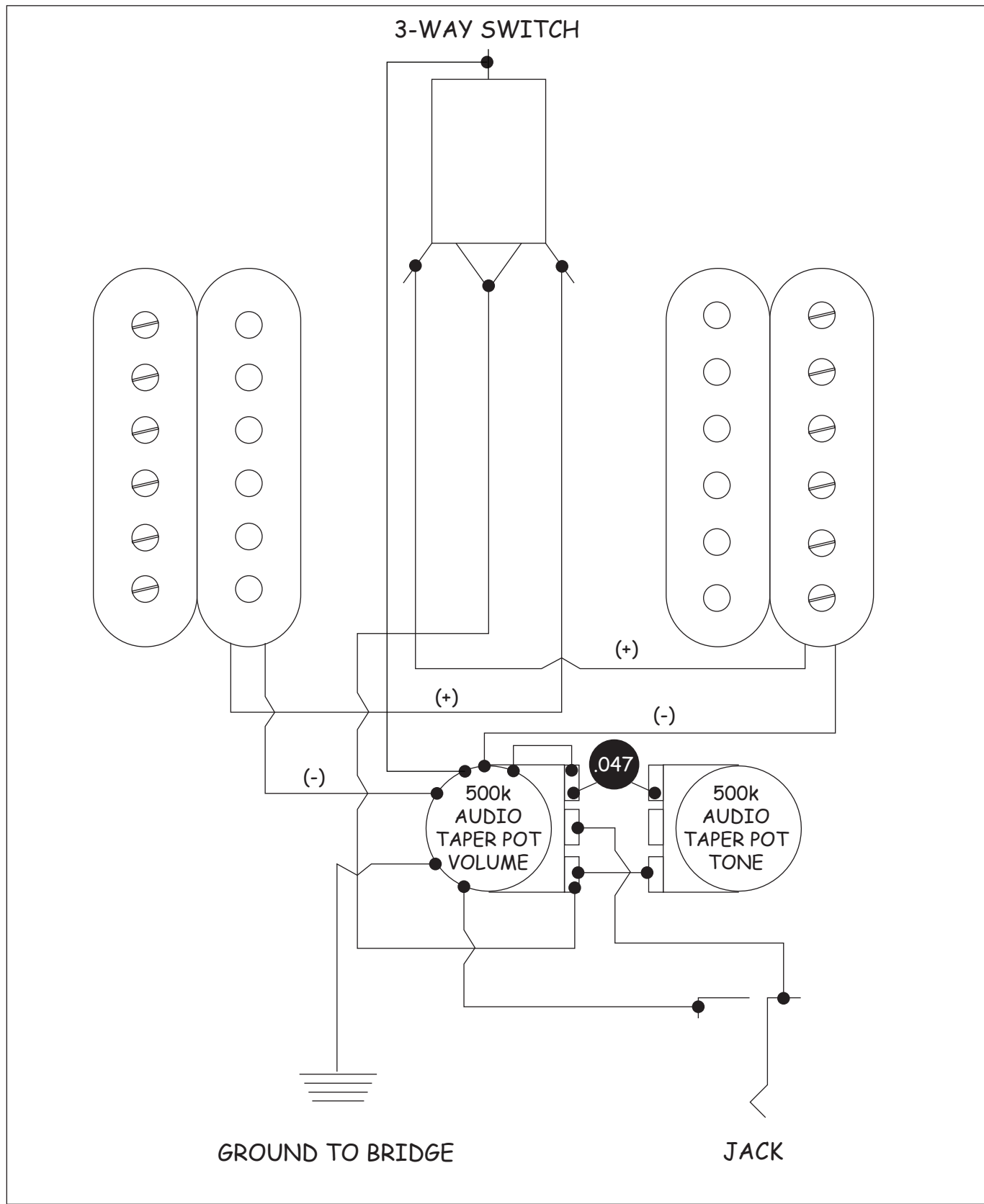
FRETBOARD SHAPE AND FRET POSITION TEMPLATE 25-1/2" (647.699mm) SCALE

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GUITAR PLANS

DESIGNED BY:
CHRIS MONCK
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A Note About The Dimensions Shown In This Plan
The dimensions have been listed in inches and millimeters. Where appropriate, the measurements have been rounded for convenience. However, the fret positions are precisely noted and must be followed without error or the instrument will not play in tune.



List of Materials

- Quartersawn maple or mahogany for the neck.
- 19" (483mm) X 14" (355.6mm) X 1-3/4" (45mm) body wood. Use Alder, Swamp Ash, Mahogany or any other good tone wood. Can be glued from several pieces.
- 24" (610mm) X 3" (76mm) X 1/4" (6mm) Fretboard. Use Indian Rosewood, Ebony or Maple.
- Six tuners.
- Bone nut blank (or other suitable material).
- Truss rod cover and screws.
- One 17" (432mm) to 18" (457mm) dual action truss rod.
- 6' (183cm) of fret wire.
- Humbucker pickupS.
- One Tremolo bridge.
- Six string ferrules.
- Two 500k potentiometers. One for volume and one for tone.
- One .047µF capacitor.
- Knobs for the potentiometers.
- One three-way switch.
- One 1/4" (6mm) output jack with a mounting plate and screws.
- 22 gauge insulated wire. 3' (92cm) of black ground wire and 3' (92cm) of colored hot wire. Solder.
- Control cavity cover and 1/2" (13mm) #4 mounting screws. Use 1/8" (3mm) hobby plywood or similar.
- Strap buttons.
- Electric guitar strings (46, 36, 26, 17, 13, 10).
- Finishing material of choice.
- Pickguard.

Options

- Pickguard.
- Exotic top wood or veneer.

FRET POSITIONS AS MEASURED FROM THE NUT		
FRET	INCHES	mm
1	1.431	36.353
2	2.782	70.665
3	4.057	103.051
4	5.261	133.62
5	6.397	162.473
6	7.469	189.707
7	8.481	215.412
8	9.436	239.674
9	10.338	262.575
10	11.189	284.19
11	11.992	304.592
12	12.75	323.849
13	13.466	342.026
14	14.141	359.182
15	14.779	375.375
16	15.38	390.659
17	15.948	405.086
18	16.484	418.703
19	16.99	431.555
20	17.468	443.687
21	17.919	455.137
22	18.355	465.945
23	18.746	476.146
24	19.125	485.774

Tips For Construction

"Measure twice and cut once!"
-Anonymous woodworker

When building the Highline Special or any other guitar for that matter, it's important to gather and measure all of the components you plan to use before selecting the neck and body wood. The reason for this is because the parts you choose may differ slightly from what I've spec'd.

For example, if the bridge you plan to use has a wider string spacing than the 2-1/16" (52mm) I've suggested, the neck and fretboard will need to be wider in order to prevent the high and low E strings from running too close to the edge of the frets.

The sample control scenario I've included is by no means the only one you can use. For that reason, I have spec'd a control cavity large enough to add more pots and/or a switch if nec-

essary. You might, for example, add a neck pickup with it's own volume and tone controls as well as a pickup selector switch. The choice is up to you.

The Highline Special's neck was designed to be slightly thinner than most other guitar necks. Therefore, quarter-sawn wood should be used in its construction.

For the body, you may want to add a comfort contour all the way around, but make sure you consider the jack and control cavity placement so there won't be any problem with overlap. If you decide to add an exotic top wood, make sure you consider its thickness when added to the body.

Good luck and happy building!

