Arbor

- Prep Materials:
    1. [4] 4x4x10ft boards
    2. [1] 2x6x10ft board
    3. [4] 2x2x8ft boards
    4. [1] ¾”x4x8ft lattice piece
    5. Tools Needed:
        - Miter saw
        - Circular saw
        - Safety glasses
        - Pencil
        - Tape measure
        - Carpenter’s square
        - Chalk line
- Prep Steps:
    1. Sort all materials into piles by like items to ensure you have materials needed to complete project.
    2. Posts: Set aside the [4] 4x4x10’ boards. Do not cut.
    3. Headers: Take the 2x6x10’. Cut [2] 2x6x60” pieces from the board.
        i. Note: Due to the width of the saw blade and slight discrepancies in board lengths, the measurement may not be exactly 60” – make sure the two pieces are even in length rather than one 60” and one slightly smaller.
    4. Decorative roof: Take the [4] 2x2x8’ boards. Cut each into [3] 2x2x30” pieces, for a total of [12] 2x2x30” pieces.
    5. Decorative lattice: Take the 4’x8’ lattice sheet. Using the chalk line and circular saw, divide the sheet into [2] 24”x96” sheets of lattice.
    6. Header angles: Take the [2] 2x6x60” pieces that you cut in step 3. Cut 45° angles off the ends to create [2] 2x6x60” trapezoids.
- Build Materials:
    1. [4] 4x4x10ft boards
    2. [2] 2x6x60” trapezoid pieces
    3. [12] 2x2x30” pieces
    4. [2] ¾”x24x96” lattice pieces
    5. 1lb of 6d galvanized nails
    6. 1lb of 3” deck screws
    7. [4] 80lb bags of concrete
    8. Tools Needed:
        - Level
        - Hammer
        - Safety glasses
        - 1/8” drill bit
        - Drill

    - Sandpaper
    - String line
    - Screwdriver bit to match deck screws
- Build Steps:
    1. Sort all materials into piles by like items to ensure you have materials needed to complete project.
    2. Set posts: Layout a space 24”x48” with a post in each corner. Measurements are from the outside corner of each post.
    3. Dig holes: Holes need to be 24” deep with an 8” diameter.
    4. Level and Plumb: Concrete the [4] 4x4x10ft posts in the ground. Posts need to be level both side-to-side and front-to-back. Posts also need to be properly aligned with each other – use the level and string line to be sure.
    5. When the structure is sturdy enough (it does not need to be completely set), attach one of the 2x6x60in trapezoids to the top of the posts along the long side on the outside of the structure. Be sure the top of the 2x6x60in trapezoid is level. The bottom of the trapezoid should be even with the outsides of the 4x4 posts. Use three (3) 3in screws per joint.
    6. Repeat this process, using the other 2x6x60in trapezoid to connect the other two 4x4 posts on the other 48" side. Again be sure the top of the 2x6x60in trapezoid is level and that the bottom of the trapezoid is even with the outsides of the 4x4 posts. Use three (3) 3in screws per joint.
    7. Next, install the 24inx96in sheets of lattice to the outside of the posts on the 24in sides (not the sides where you just installed the 2x6 headers). The edges of the lattice should be even with the outside of the 4x4 posts as well as the tops of the 4x4posts. Use the 6D nails to attach the lattice to the 4x4 posts.
    8. Lastly, install the 2x2x30in on top of the 2x6x60in trapezoids. The 2x2s will run perpendicular to the 2x6x60in trapezoids and over-hang them by 1 ½” on each side. Place the first 2x2 even with the outside edge of the 2x6 and space the remaining 2x2s with about 3 ¾” in between them. Use the 1/8” drill bit to pre-drill the holes, then use 3in deck screws to make the attachment.