

HOPYARD PREPARATION AND CONSTRUCTION

EMPIRE HOP FARMS

EMPIRE, MI 49630







Field Prep

- ▶ Clearing Land - Removal of any unwanted trees and under brush
- ▶ Disc Field- Field must be leveled and soil softened to allow for marking with GPS tractor.
- ▶ Fumigation- Easiest if done at this point. (Can be done later).









Hop Farm Management and Trellis Construction







Drilling Anchor Pole Holes



- ▶ Anchor poles will be every 14' along the Bridle.
- ▶ Every 28' along the Ribbon
- ▶ Drilled to a depth of 3'









Concrete

- ▶ Have anchor rods placed loosely in anchor pin holes with the shepherds hook in the bottom.
- ▶ Enough concrete is added to the hole to cover the top of the shepherds hook.
- ▶ Make sure the eye hole is perpendicular to the anchor pole and centered in the hole.
- ▶ As the concrete is added the anchor pin should be lifted slightly to make sure the shepherds hook is suspended in the concrete.
- ▶ 1 yard of concrete = 20 holes.







Pitching Anchors

- ▶ Once the anchor cables are attached to the anchor poles the poles will be pitched.
- ▶ A hole is dug about 2' deep in front of the anchor pole facing the anchor pin.
- ▶ A crew of 3-4 will then pitch the pole.
- ▶ One person will pull on the tag ends of the anchor cable in the direction of the pin.
- ▶ Using a level attached to a 90 degree square a worker levels the pole to a 45 degree angle.
- ▶ When the pole is level another worker inserts a metal fence post to hold the pole in place while the others back fill and tamp the pole in place.







Wrapping Anchor Poles

- ▶ Precut sections of 5/16 cable at 45' lengths will be attached to each anchor pole.
- ▶ A 6" Nail is pounded 3" into the anchor pole at 18' above the ground.
- ▶ The anchor cable is center on the nail, wrapped around the pole, and secured with 1 3/4" staples.
- ▶ The two tag ends should be equal in length and hang on the ground.







Locking Anchors



- ▶ With the anchor poles pitched a crew will then pull tag ends of anchor cable to the pins and make a crimp on the cable where it meets the pin.
- ▶ Two 5/16" cable clamps are attached to both tag ends after then are ran through the eye of pin.

















Stretching Vine Line

- ▶ Once all vine lines attached to one side of the trellis they will be stretched from the opposite side.
- ▶ The vine line is stretched using come-alongs and cable pullers.
- ▶ The come-along is attached to the bridle and pulls the vine line tight.
- ▶ At the desired tension the vine line is attached to the bridle using a "crows foot" knot and clamps.
- ▶ The trellis must be stretched evenly. Start in the middle and move out. Stretch 3 rows and then skip 6. Repeat in each direction to corners and then come back and attach skipped rows.

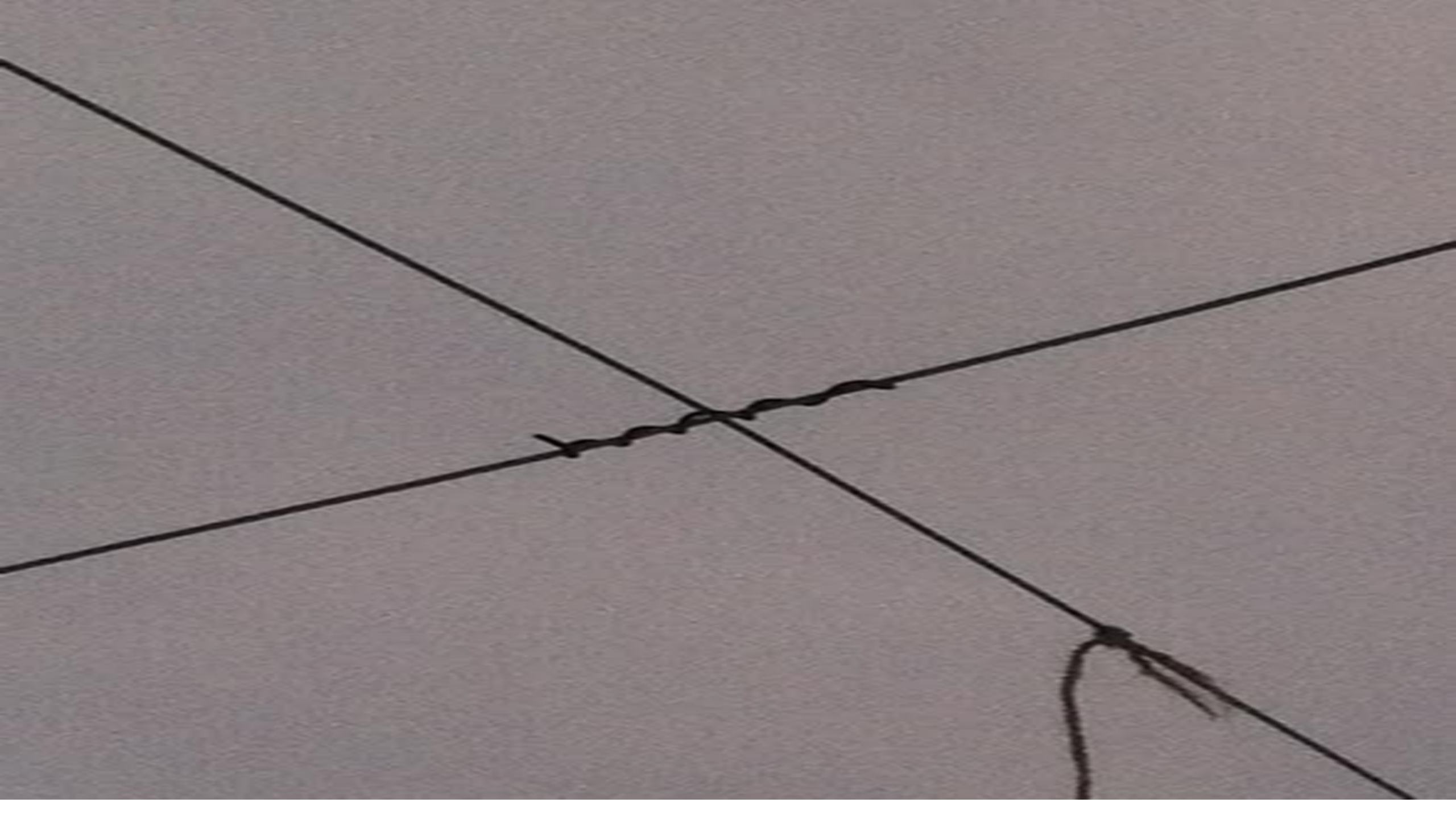


Attaching and Stretching Cross Wire

- ▶ Cross wires are attached to each anchor pole on one side of the trellis first.
- ▶ The cable is wrapped around the anchor pole above the anchor wraps and secured to itself using 5/16" clamps.
- ▶ The cross wire is stretched from the opposite side of the field. Starting from the middle and working out.
- ▶ The cross wire will be stretched twice.























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Liquid Plant Food

Science-Driven NutritionSM

Guaranteed Analysis:	
Total Nitrogen (N)	9.0%
6.5%	Ammoniacal Nitrogen
2.5%	Water Soluble Organic Nitrogen
Available Phosphate (P ₂ O ₅)	24.0%
Soluble Potash (K ₂ O)	3.0%













Questions

