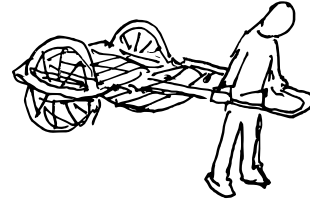


# Some Crate Cart Design Considerations

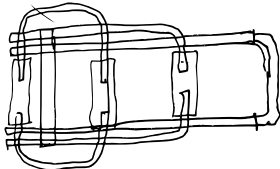
Cart frame should be made from lightweight, strong, inexpensive, easily-sourced materials

... and design should be easy to build, and easy to customize...

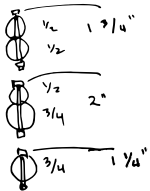


Would be nice to be able to 'pull' the cart in an ergonomic manner

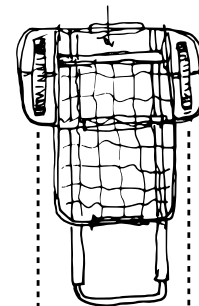
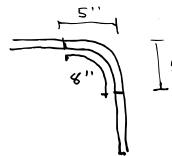
**Let's use metal electrical conduit ('EMT')!**



Will need to design bends properly and perform them using special bending tool ...



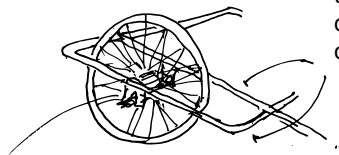
Can use judicious combination of 1/2" and 3/4" EMT to minimize cost while maintaining frame strength



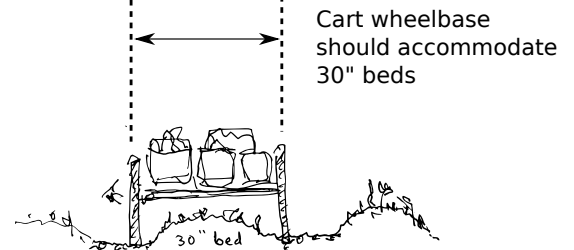
Cart should be large enough to carry plenty of crates

Cart wheels should be inexpensive -- **let's use recycled bike wheels!**

Frame design needs to accommodate dropouts on both sides of wheel

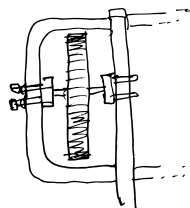
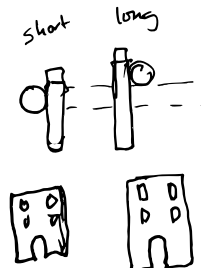


'Bicycle wheel needs 'dropouts' on both sides for proper support

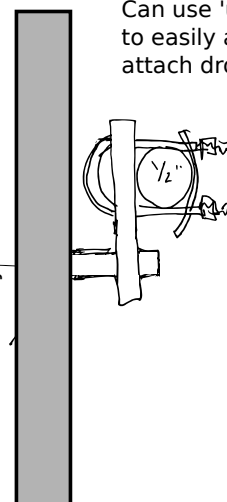


Cart wheelbase should accommodate 30" beds

**"DROPOUTS"**



One side of frame is higher than other ('over-under' pipe design), so dropouts need to be different heights for level wheel



Can use 'u-bolts' to easily and securely attach dropouts to frame

A flexible dropout design allows for attachment via u-bolts, screws, or straps

