

## Track System Specifications

- 1) Contractor will obtain all necessary concrete/building permits.
- 2) Physical address and driving direction of the project location.  
1302 Mauermann Rd. #1  
San Antonio, TX 78224

The location is City of San Antonio property, managed by SAWS and currently leased to Bladerunner Farms. It lies adjacent to the San Antonio Leon Creek Wastewater Treatment facility. Directions: Off of South Loop 410, exit and turn south on Moursund Blvd. (The exit is between SR-16/Palo Alto Rd. and Roosevelt Ave.) Travel south for @ 2.5 miles, then turn west (right) and travel @ 1.5 miles. Just pass the wastewater treatment facility is the entrance to Bladerunner Farms. Turn south and travel to the house and trees (@ ¾ mile). Project site is just east of the house and trees.

- 3) Two concrete tracks
  - 350 ft long by 1 ft wide by 2 ft tall
  - Concrete: 3000 PSI
  - Reinforcement: Four lengths of #4 rebar wired into 350 ft long sections, distributed throughout each structure.
- 4) Placement: Tracks are set parallel to each other and located as directed on the site by Texas Cooperative Extension (TCE).
  - Distance between tracks: 50.5 ft outside dimension, 48.5 ft inside dimension.
  - The concrete tracks will be set approximately 18 inches below ground level and 6 inches above.
  - Note: Two trenches - 351 ft (length) by 2 ft (width) by 18 inches (depth) have been dug.
  - Contractor will be required to backfill the trench after the forms are removed.

**ALL THE METAL, SQUARE WASHERS, AND CONCRETE WEDGE ANCHORS WILL BE PROVIDED BY THE AGENCY.**

- 5) Steel I Beams are to be installed parallel to each other on both concrete tracks.
  - I beams are to be connected together.
  - Square washers are to be welded to the I beam at distances to be determined (see attached diagram for possible examples). The total number of washers welded will range from 72 to 126.
  - For each square washer, a zinc plated concrete wedge anchor will be inserted into a hole drilled into concrete. The depth of the hole will range from 6 to 10 inches. The concrete wedge anchor will then be expanded, wedging itself securely in the concrete.

- 6) Angle iron is to be welded onto the top of the steel I beams and parallel to each other on both concrete tracks. Angle iron will be continuous all 350' for each track.
  - 50' shall span between the center of the angle iron on the south track to the center of the angle iron on the north track.

Additional information:

We are trying to build a rainout shelter on V-grooved casters that is able to move up and down the tracks. The goal of the project is to determine which turf varieties are the most drought resistant for the San Antonio area.

Picture of the actual location:

<http://itc.tamu.edu/Pictures/SAWS%20Planting%204.html>

Pictures of completed shelters and the metal tracks are displayed in the following links:  
<http://itc.tamu.edu/documents/rainout%20shelter/Kansas%20State%20Rainout%20Shelter/index.html>  
<http://itc.tamu.edu/documents/rainout%20shelter/Georgia%20Rainout%20Shelter/Large%20Shelter/index.html>

Concrete trucks should be able to get close enough for pouring and installation with a short extension. Note, no trucks of any kind and minimum foot traffic are requested in between the trenches, especially on the east side.

There are no grades that should concern the vendors.

Vendors may visit the site if deemed necessary.

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