

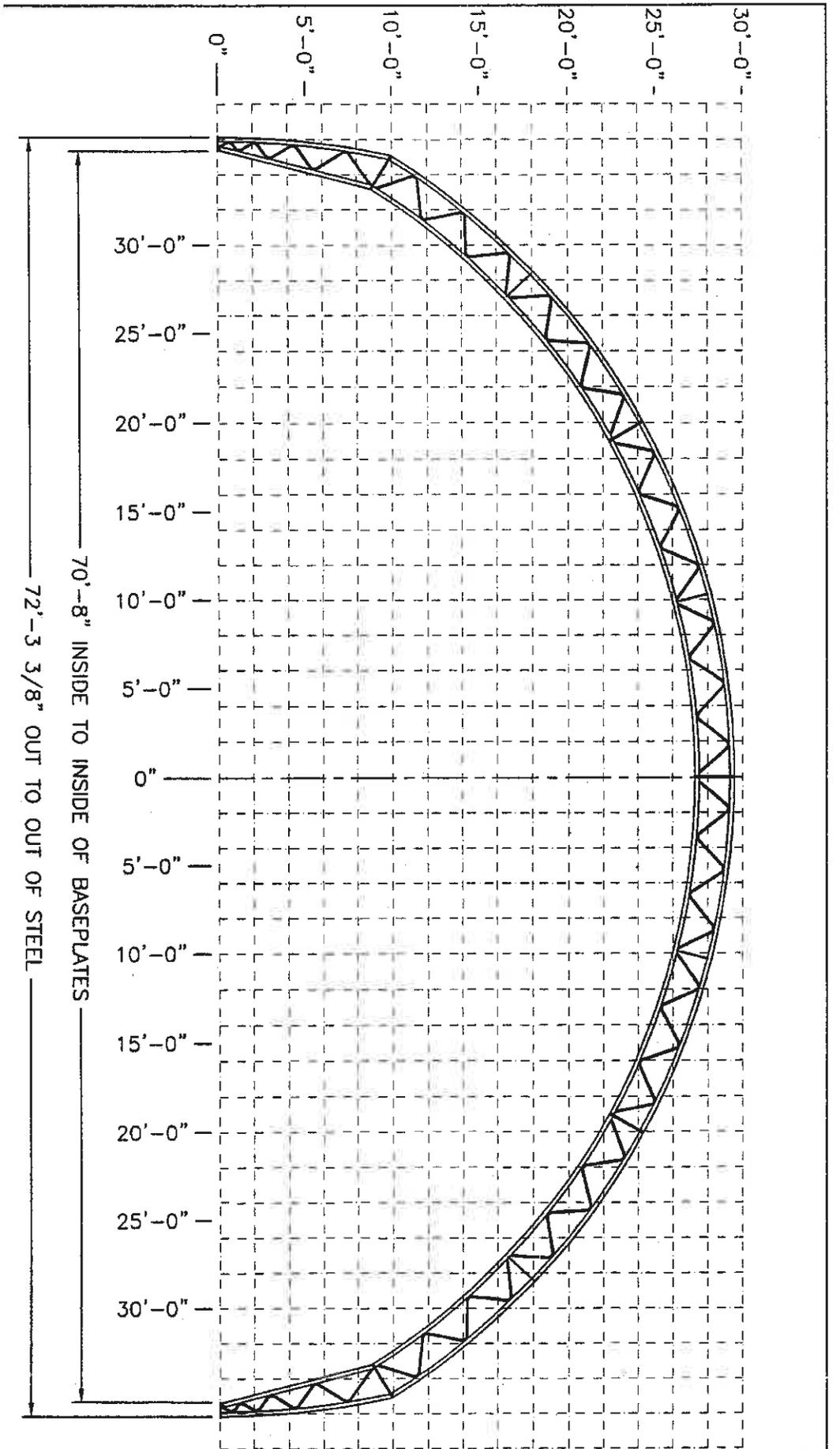
## Specifications Updated 05/24/13

NASA/LaRC has a requirement for a tarp cover to be used in covering the Quonset Hut structure located at the Center's Landing & Impact Research Facility (LandIR), and that shall meet the minimum following specifications:

- Tarp cover shall cover existing Quonset Hut structure that stands ~30' tall, ~72' wide, ~100' long (see NASA's Drawing A for reference)
- Tarp cover's material shall meet the following standards:
  - Shelter-Rite High Performance 8520 Architectural Fabric **or equivalent**
  - Base Fabric Type: Polyester
  - Base Fabric Weight (nominal): 5.0 oz/yd<sup>2</sup>
  - Finished Coated Weight (ASTM D751): 20.0 oz/yd<sup>2</sup> +2/-1 oz/yd<sup>2</sup>
  - Opaque: 25.0 oz/yd<sup>2</sup> +2/-1 oz/yd<sup>2</sup>
  - Tongue Tear (ASTM D751): 8"x10" sample @ 12" in/min. 100/100 lb<sub>f</sub>
  - Grab Tensile (ASTM D751): 400/400 lb<sub>f</sub>
  - Strip Tensile (ASTM D751 Procedure B): 325/325 lb<sub>f</sub>/in
  - Adhesion (ASTM D751 Dielectric Weld): 10 lb<sub>f</sub>/in
  - Hydrostatic Resistance (ASTM D751 Procedure A): 500 psi
  - Low Temperature (ASTM D2136): 1/8 in mandrel, 4 hrs
  - Flame Resistance:
    - NFPA 701
    - ASTM 6413-99 – 2 second flameout
    - California Fire Marshall
    - CAN/ULC S102
    - CAN/ULC S109
    - ASTM E84 – flame spread index <25, smoke development rating <450
- Tarp cover shall be white in color
- Tarp cover shall be open at each end, i.e. drive-thru type
- Contractor shall provide all necessary hardware and tools for use in installation. All current hardware shall be examined to determine if salvageable or in need of replacement.
- Tarp cover shall be fastened to existing structure through PVC and belting package (see below pictures for reference)
- Installation shall consist of:
  - Removal of existing tarp cover
  - Installation of new cover on existing framework
  - **NOTE: NASA will assume responsibility for disposal of existing cover**
- Contractor shall provide all lifting devices (such as crane, genie boom, fork lift, and safety harnesses) for use in installation.
- Contractor shall furnish training certifications for vehicle use and safety equipment.
- Contractor's employees shall attend brief NASA training on security and on-site safety procedures.

Please refer to NASA's Drawing A for the dimensions of the Quonset Hut structure, and to the attached photos of the existing cover/structure for reference.

**NOTE: LaRC encourages all contractors to make a site visit before bidding. Please contact Derek Bramble (757.864-6073) with any requests to set up a site visit.**



NASA Bldg 1297 - Quonset Hut, Lunar Landing Research Facility  
 Drawing A





3 x 3 x .250 1001 TO 1011 2014





