Parsons-LIGO
100 West Walnut Street
Pasadena, CA 91124

Main Operator Line #: (818) 440-2000
Parsons-LIGO Fax #: (818) 440-2900
Central Fax (Optional) #: (818) 440-2630
Confirmation #: (818) 440-2376

LIGO-G950086-00-D

Facsimile Cover Sheet

To: Mr. Fred Asiri
Company: Caltech -- LIGO Project
Phone: 818-395-2971
Fax: 818-304-9834

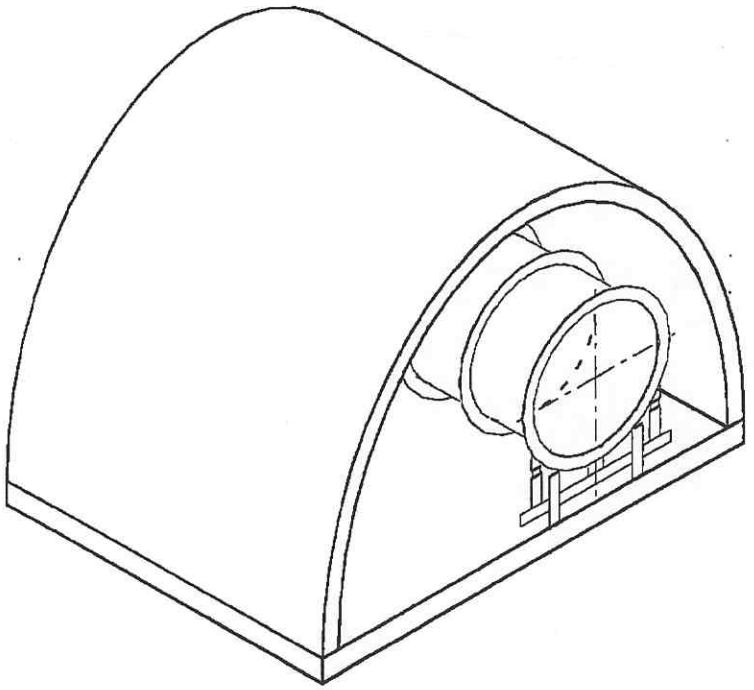
From: Jeff Hermann
Company: Ralph M. Parsons Company
Phone: (818) 440-2394
Fax: (818) 440-2900

Date: 10/06/95
Pages including this cover page: 6

Comments:

Precast Enclosure Segments

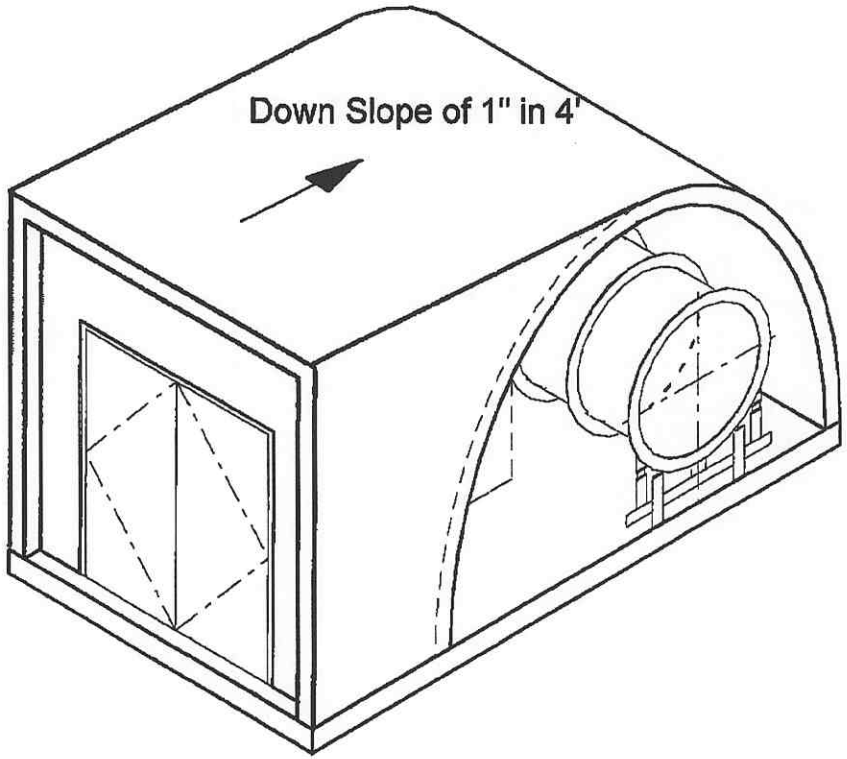
- 6" Thick Precast Concrete
- Inherently Stable & Water Repellent Ellipse Shape
- Sealed at Base and End Surfaces



Parsons-LIGO

Service Entrances

- Located at 780 Foot Intervals
- 28 Service Entrances
- 10 feet long, and approximately 28,900 pounds
- Double self-sealing bullet-proof doors
- 9' x 9' Vestibule Space



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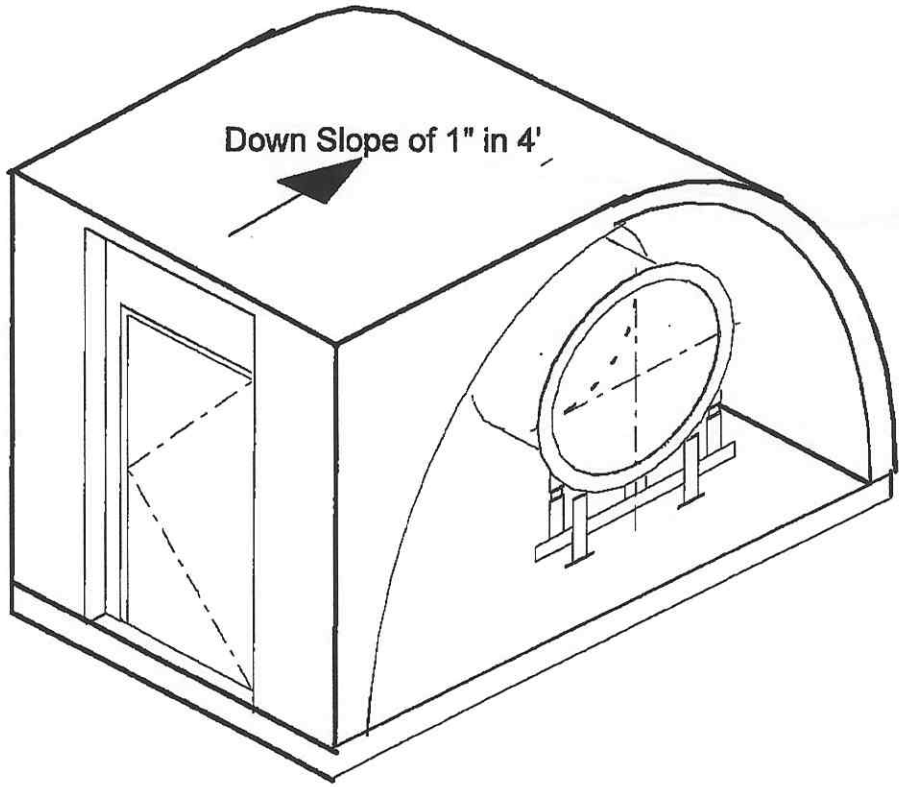
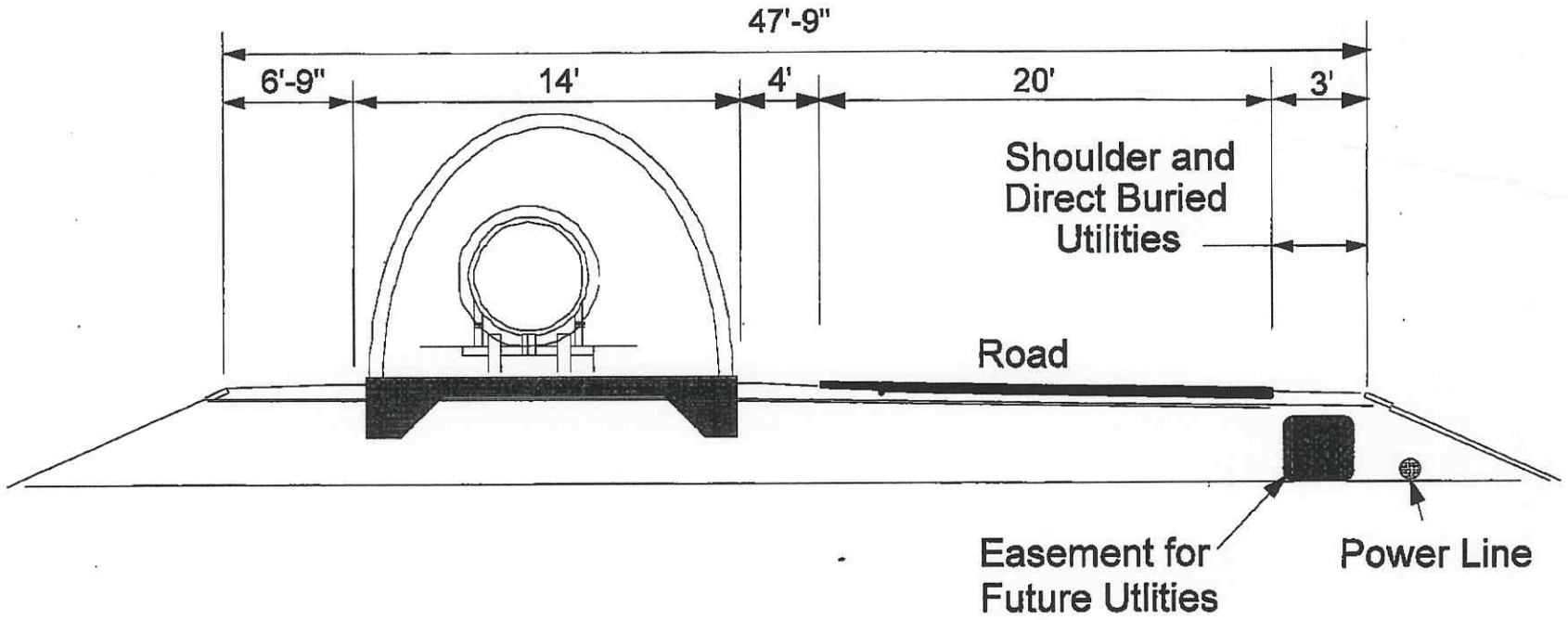
Emergency Egresses

- 1 Between Each Pair of Service Entrances
- Meets UBC, NFPA, Fed-OSHA, & Local Fire Marshal Criteria
- Single self-sealing bullet-proof door
- 10 feet long and approx. 22,000 lbs.



BTE and Embankment



Cross Section (Hanford)

Parsons-LIGO

LVEA Features

- Cleanroom Compatible Finishes
- Air Supplied through Ceiling Mounted HEPA filters (No cleanroom air rating)
- Air Returned at Floor Level via Wall Plenums
- Controlled Environment
  - 22 +/- 2 degrees C
  - 30 to 70% Relative Humidity

Parsons-LIGO

LVEA Features

- Foundation Vibration Criteria
  - 4 times LIGO Standard PSD
  - For 0.1 to 50 Hz the RMS Displacement from all Narrow Band Excitations is Less Than 3 x 10^{-7} Meters
- Acoustics -- 2.5 Second Reverberation Time
- 5 Ton Crane System Throughout