Mother 6403T. 23 December 1970 Dear Marcel: Vin has asked me to work out a few details for improving the next launch which may be of use to you. These are as follows: An extra inflation fitting has been put on the balloon closer to the top. (One at 45 ft from the top and one at 35 ft.) An end cap restraining hoop has been added to the load lines to prevent the base end from blowing out between the lines. A load line spreader (see sketch 1 attached) has been designed. It 0 is intended to prevent crushing the base end cap during inflation and early ascent. It is a "do-it-yourself" model, so allow a few extra minutes in your pre-launch schedule. A compact anchor block for the balloon bottom anchor has been designed (see sketch 2). It is intended to replace a bulky car and some men you required last time. You might consider using a heavy lift truck as launch collar anchor on the balloon top end. (The increased weight is comforting if the wind comes up a bit.) The flight train may have a different configuration than last time, but Vin will fill you in on it. I suspect a hole may have been caused by abrasion of the tow balloon against the tight load line. could have caused a descent like the Nimbus balloon that almost hit the water last summer at Ascension Island. If any of these ideas sound good, go shead and use them, otherwise this letter will self-destruct in time. HYAA? If you have any questions, please contact me. Good Luck. Sincerely, Sig Stenlund Enclosures

Bottom and cap of balloon -Mark Road River Juddle proby. bubble proby material (made from pushing material and from pushing material) mashing tape)
evrapping
on ball markingtape to hold bull in food fetting place. Balloon layant trugging: 1. Save bubble poly to make into a ball. 2. Polare ball in come of load lines to prevent lines from crushing and cape 3 Pull endcape to a point to center in come of lood attachment.

DA MIN. PLI

Plan

eyebelt

eyebelt

in a series

in a se

density of cenent 180 lb/ft 3

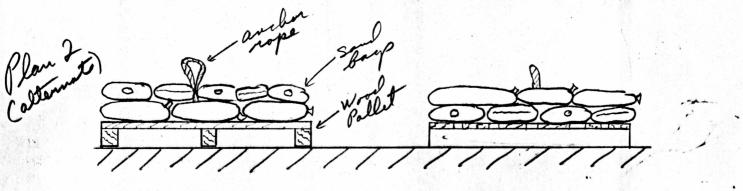
u for coment on rubber = 1

assume horizontal force of 500 lbi

then: wet of cenent = 500 lbs force = 500 lbs

plus 507, softy funtar = 750 lbs for cenent

Cenent required ~4.2 ft 3



Landdensity ~ 130 lb/ft3

M for wood on cement ~ 0.3

Wt of sand for 500 force ~ 2400 lbs. (include 50% safty factor)

40 60 lbs sachs of sand.