



SEE PLAN VIEW FOR TRUE ORIENTATION

① SEE SHT. 8 FOR TOP AND BOTTOM HEAD ORIENTATION

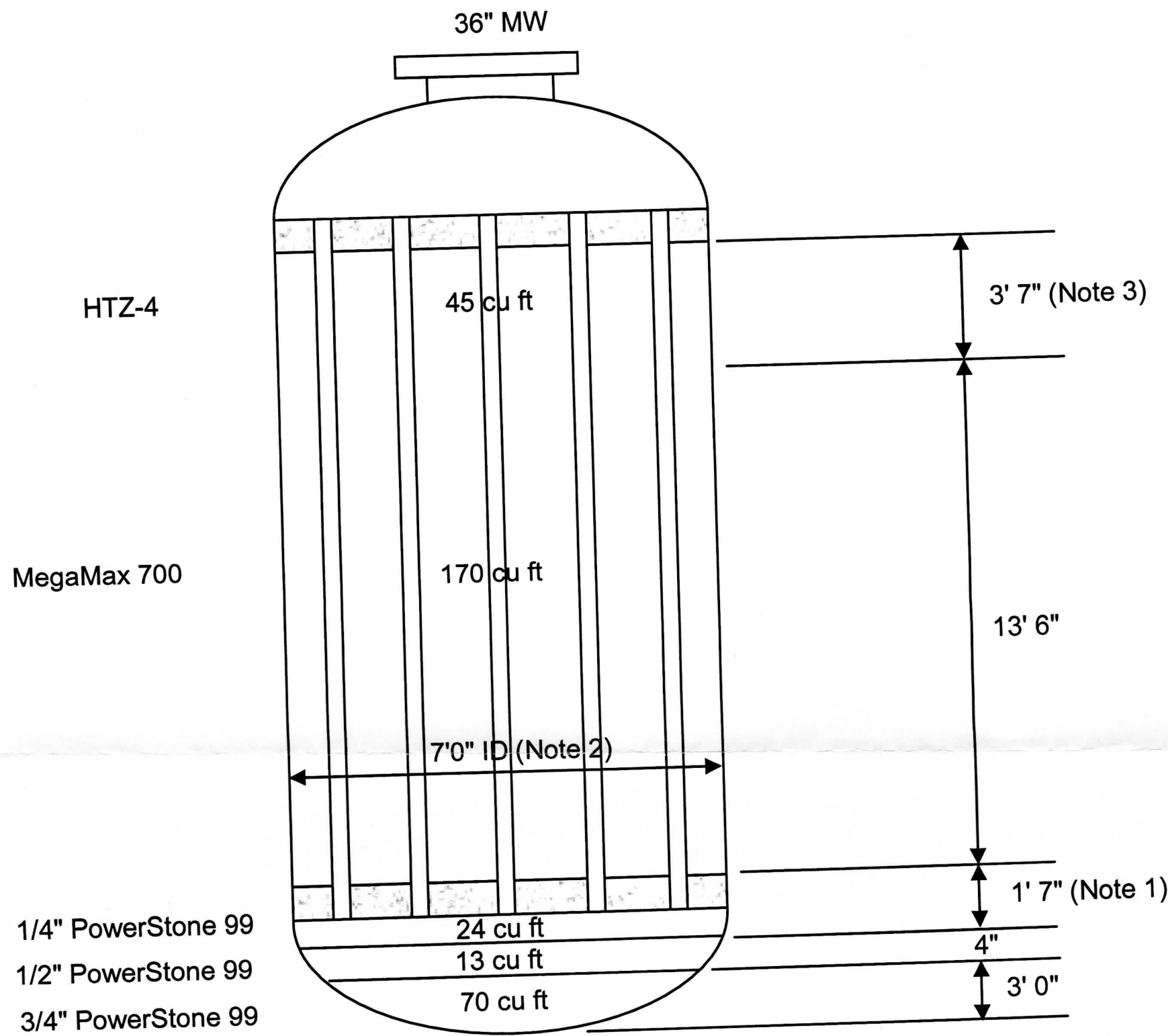
- 1) ALL WETTED SURFACES TO BE CLADDED W/ 304L SS. ( NOZZLES, HEMI HEADS TUBESHEETS AND MANWAY BLINDS). 1/8" MIN. THK. CLAD.
- 2) NOZZLE MN2, NN1 & NN2 TO HAVE PLUGS WELDED TO FLANGE BLIND. PLUGS TO BE PIPE SECTIONS WITH WELDED PLATES AT END AND 1/4" VENT HOLES AT BASE.
- 3) CLOSING SEAM IN VESSEL SHELL SIDE SHALL BE INSPECTED BY BOROSCOPE ROOT PASS TO BE COMPLETED BY GTAW METHOD. ROOT PASS TO BE FULLY EXAMINED BY PT PRIOR TO COMPLETION OF FILLER PASSES. INSIDE SURFACE TO BE FREE OF COARSE RIPPLES, GROOVES, OVERLAPS, AND ABRUPT RIDGES AND VALLEYS.

14015 GARFIELD AVE.  
PARAMOUNT, CA 90723-2137  
531-6050 FAX (562) 531-4

|   |  |                            |                   |                     |
|---|--|----------------------------|-------------------|---------------------|
| CUSTOMER NAME:<br>RANGE FUELS SOPERTON PLANT, LLC |  | MPC'S SERIAL NO.<br>09-085 |                   |                     |
| PROJECT:<br>CATALYTIC CONVERTER                   |  | SCALE:<br>NONE             | DRAWN BY:<br>F.C. | CHECKED BY:<br>J.P. |
| CUSTOMER NO.<br>B27-0368                          |  | DRAWING NO.<br>4549        | SHEET<br>7        | OF<br>21            |
| DRAWING TITLE<br>VESSEL DETAIL                    |  |                            |                   | REV<br>1            |

CATALYTIC CONVERTER (41-R-168) LOADING DIAGRAM

By: MKR  
Date: 10/6/09



Notes:

1. Fill to top of bottom tubesheet.
2. 1028 x 1 1/2" Shd 80 tubes (catalyst in tubes)
3. Fill to bottom of top tubesheet