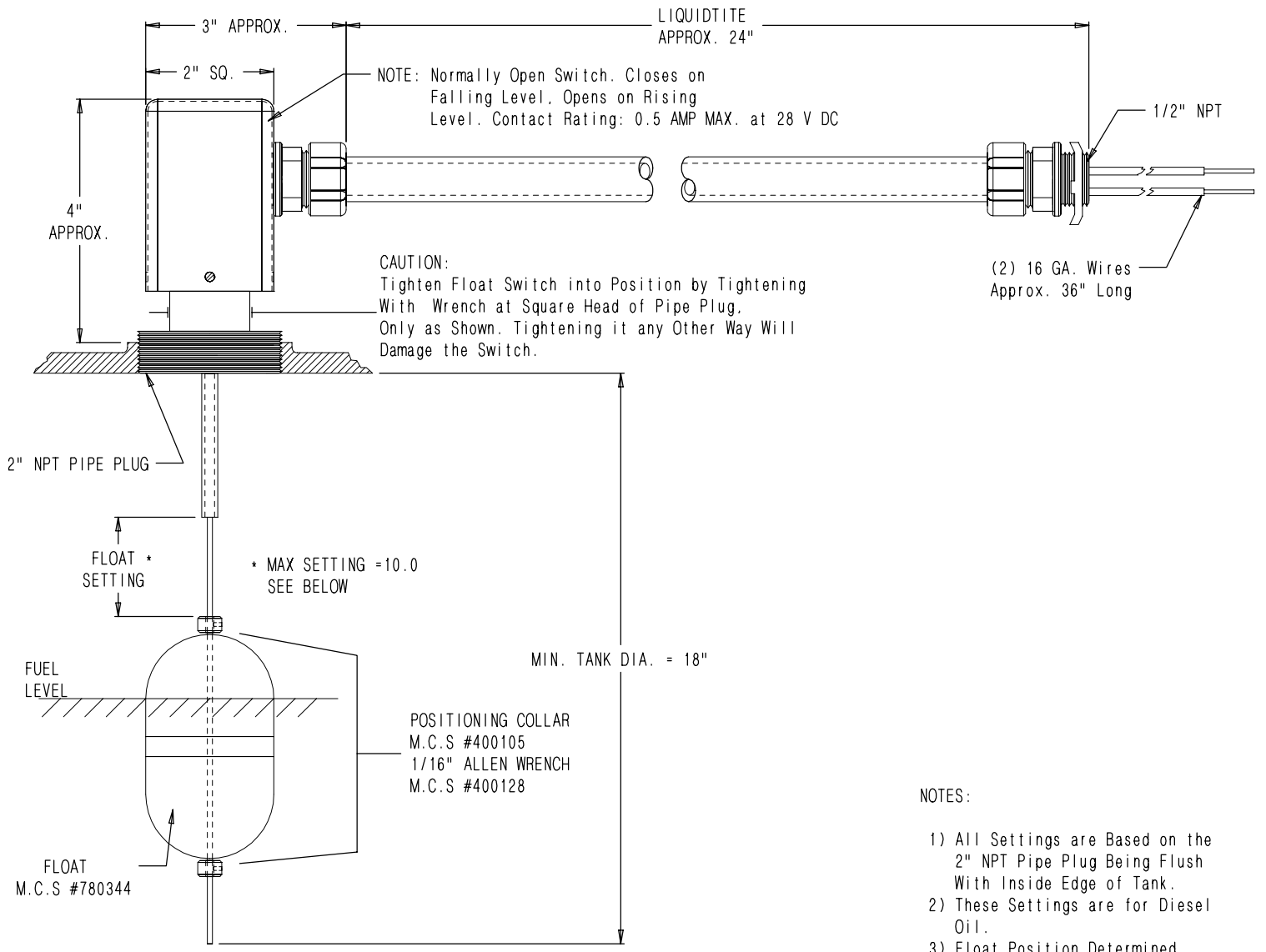
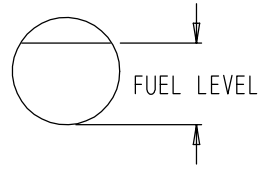
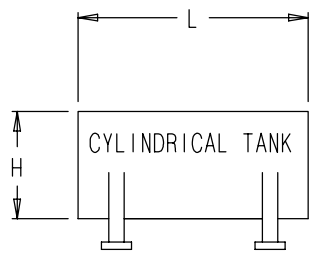


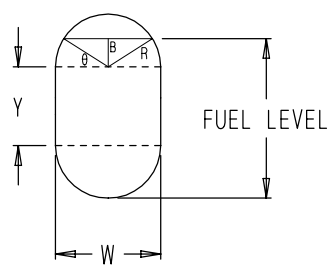
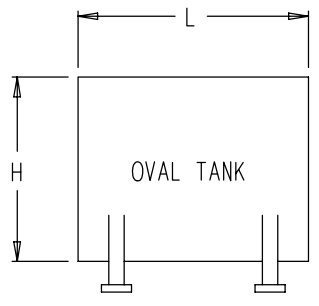
ISSUE		SUMMARY	
11	PER ECN 1775	FC	16 MAR. 98
12	Add Float Level/ECN 2532	BSH	21 JUL. 04



- NOTES:
- 1) All Settings are Based on the 2" NPT Pipe Plug Being Flush With Inside Edge of Tank.
  - 2) These Settings are for Diesel Oil.
  - 3) Float Position Determined With Float Rod Fully Extended.



CYLINDRICAL TANK FLOAT SETTING FORMULAS  
 80% Fuel Level = 0.746 x Tank Dia.  
 Float Level = 0.254 x (Tank Dia.) - 3.25" in Fuel (Retracted)  
 Float Setting = 0.254 x (Tank Dia.) - 4.25" in Air (extended)



OVAL TANK FLOAT SETTING FORMULAS  

$$\left( [(H - W)W] + \left[ \pi \left( \frac{W}{2} \right)^2 \right] \right) 0.2 = \frac{\pi R^2 \theta}{360} - \frac{R^2 \sin \theta}{2}$$
 SOLVE FOR  $\theta$   

$$B = R \cos \left( \frac{\theta}{2} \right)$$
 80% FUEL LEVEL =  $\frac{W}{2} + Y + B$   
 FUEL LEVEL = H - FUEL LEVEL - 3.25"  
 FLOAT SETTING = H - FUEL LEVEL - 4.25"

SCALE 3/8" = 1"

LOW FUEL SWITCH MODEL 4817 (SHORT ROD) INSTALLATION DETAILS	
MC MASTER CONTROL SYSTEMS INC. LAKE BLUFF, ILLINOIS U.S.A.	
USED ON	RE-PLOT 21 JUL. 04
DRN. FC	DES.
APP.	DATE 9 SEP. 74
DWG. 4817	ISS. 12 SHEET 1 OF 1

\*For Float Settings See: 4817 - 6288\_Fuel\_Switch\_Settings.WP1