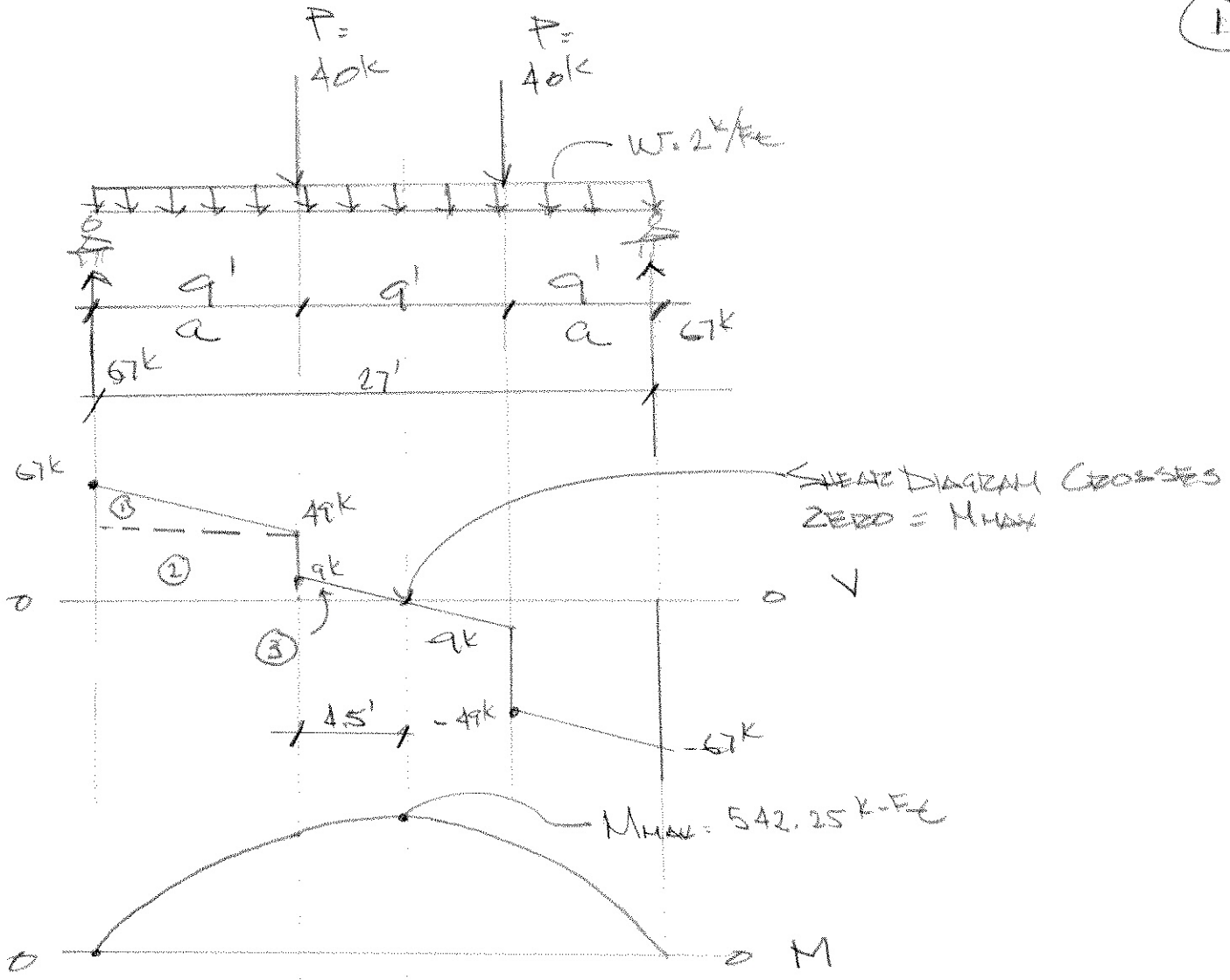


1



$M_{MAX} = \text{Area of Part ①} + \text{②} + \text{③}$
 $A_{①} = (67 \text{ k} - 49 \text{ k})(9 \text{ ft}) / 2 = 81 \text{ k-ft}$
 $+ A_{②} = (49 \text{ k})(9 \text{ ft}) = 441 \text{ k-ft}$
 $+ A_{③} = (9 \text{ k})(45 \text{ ft}) / 2 = 20.25 \text{ k-ft}$
 542.25 k-ft

$M_{MAX} = \frac{wl^2}{8} + Pa$
 $= \frac{(2 \text{ k/ft})(27 \text{ ft})^2}{8} + (40 \text{ k})(9 \text{ ft})$
 $= 542.25 \text{ k-ft}$

MMH
6/22/06

