$$x_{2} = x_{1} - \Delta x_{fr} \frac{p_{1} - p_{0}}{p_{1}},$$

$$p_{y2} = p_{y1} + y_{1} \frac{\Delta y_{fr} - \Delta y_{fra} y_{1}^{2}}{p_{1}^{2}},$$

$$z_{2} = z_{1} + \frac{-\Delta x_{fr} p_{x1} + (\Delta y_{fr} - \Delta y_{fra} y_{1}^{2}/2) y_{1}^{2}/(2p_{1})}{p_{1}} - \Delta z_{fr},$$
where  $\Delta z_{fr} \equiv \Delta x_{fr} \left( \sin(\text{ANGLE E1} + \text{AE1}) + \sin(\text{ANGLE E2} + \text{AE2}) \right).$ 
(99)