

### Thermal Expansion Coefficients

Due to temperature:  
 (add/subtract): measured length  
 $C = \alpha L(T_2 - T_1)$

Due to pull:  
 (add/subtract): measured length  
 $C = \frac{(P_2 - P_1)L}{EA}$

Due to sag:  
 (subtract only): unsupported length  
 $C = \frac{w^2 L^3}{24P^2}$

Due to slope:  
 (subtract only): measured length  
 $C^2 = S^2 - h^2$

Normal Tension:  
 $P_N = \frac{0.204W\sqrt{AE}}{\sqrt{P_N - P}}$

too long    measure    lay-out  
 CD = MD  $(1 + \frac{e}{TL})$   
 too short    add    subtract  
 CD = MD  $(1 - \frac{e}{TL})$

### Probable Error

Probable Error (single):  
 $E = 0.6745 \sqrt{\frac{\sum(X - \bar{X})^2}{n - 1}}$

Probable Error (mean):  
 $E_{\text{m}} = \frac{E}{\sqrt{n}} = 0.6745 \sqrt{\frac{\sum(X - \bar{X})^2}{n(n - 1)}}$

Proportionalities of weight, w:  
 Error:  $w \propto \frac{1}{E^2}$     Error:  $w \propto \frac{1}{d}$     Error:  $w \propto n$

### Radius Measurement

Horizontal:  
 $D = d + (f + c)$   
 $D = \left(\frac{f}{l}\right) s + C$   
 $D = Ks + C$

Inclined:  
 $D = Ks \cos \theta + C$   
 $H = D \cos \theta$   
 $V = D \sin \theta$

### Effect of Curvature & Refraction

$h_{\text{cor}} = 0.067K^2$   
 $h = h_2 + \frac{D_2}{D_1 + D_2} (h_1 - h_2) - 0.067D_1 D_2$

### Leveling

Elev<sub>B</sub> = Elev<sub>A</sub> + BS - FS  
 Inclined upward:  
 error/setup = -e<sub>BS</sub> + e<sub>FS</sub>  
 Inclined downward:  
 error/setup = +e<sub>BS</sub> - e<sub>FS</sub>  
 Total Error:  
 $e_t = \text{error/setup} \cdot \text{no. of setups}$

Azimuth  
 from South

Reduction to  
 true level  
 $\frac{CD}{R} = \frac{MD}{R + h}$

Galvanic Bar  
 $D = \cot \frac{\theta}{2}$

### Parabolic Curves

Symmetrical:  
 $H = \frac{L}{B} (S_1 + S_2)$

$\frac{x^2}{y} = \left(\frac{L}{2}\right)^2 L_2$

Unsymmetrical:  
 $H = \frac{L_1 L_2}{2(L_1 + L_2)} (S_1 + S_2)$   
 $S_1(L_1 + L_2) = S_1 L_1 + S_2 L_2$   
 Note: Consider signs.

### Area of Circular Trajectory

Error of Closure:  
 $= \sqrt{\sum L^2 + \sum D^2}$

Relative Error/Precision:  
 $= \frac{\text{Error of Closure}}{\text{Perimeter}}$

### Area of Irregular Boundaries

Trapezoidal Rule:  
 $A = \frac{d}{2} [h_1 + h_n + 2\sum h_i]$

Simpson's 1/3 Rule:  
 $A = \frac{d}{3} [h_1 + h_n + 2\sum h_{\text{odd}} + 4\sum h_{\text{even}}]$   
 Note: n must be odd

### Double Meridian Distance Method (DMD)

$DMD_{\text{first}} = Dep_{\text{first}}$   
 $DMD_n = DMD_{n-1} + Dep_{n-1} + Dep_n$   
 $DMD_{\text{last}} = -Dep_{\text{last}}$   
 $2A = \sum(DMD \cdot Lat)$

### Double Sine Distance Method (DSD)

$DPD_{\text{first}} = Lat_{\text{first}}$   
 $DPD_n = DPD_{n-1} + Lat_{n-1} + Lat_n$   
 $DPD_{\text{last}} = -Lat_{\text{last}}$   
 $2A = \sum(DMD \cdot Dep)$

### Earthwork

$\frac{d_s}{\pm f_s} = \frac{D}{\pm f_c} = \frac{d_p}{\pm f_p}$

$A = \frac{f}{2} (d_L + d_R) + \frac{w}{4} (f_L + f_R)$

Volume (End Area):  
 $V_e = \frac{L}{2} (A_1 + A_2)$

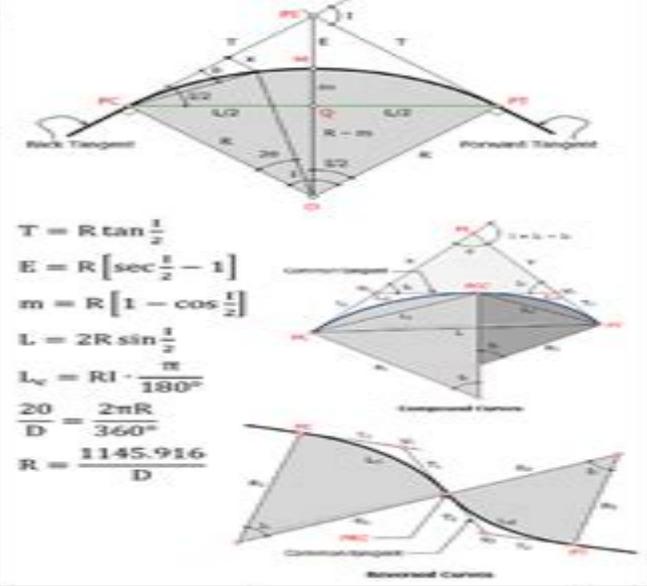
Volume (Prismoidal):  
 $V_p = \frac{L}{6} (A_1 + 4A_m + A_2)$

Prismoidal Correction:  
 $C_p = \frac{L}{12} (C_1 - C_2) (d_1 - d_2)$

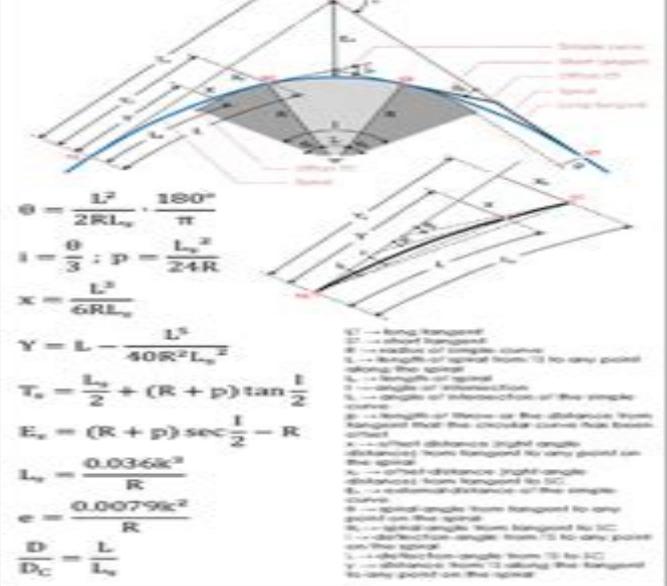
$V_p = V_e - C_p$

Volume (Truncated):  
 $V_T = A_{\text{base}} \cdot H_{\text{ave}} = A \left(\frac{2h_1 + h_2}{3}\right)$   
 $V_T = \frac{A}{6} (\sum h_1 + 2\sum h_2 + 3\sum h_3 + 4\sum h_4)$

### Simple, Compound & Reverse Curves



### Spiral Curves



### Slipping Sight Distance

$S = vt + \frac{v^2}{2g(f \pm G)}$   
 $a = g(f \pm G)$  (deceleration)  
 $t_b = \frac{v}{g(f \pm G)}$  (braking time)  
 $ESD = \frac{f}{f_{\text{ave}}} (100)$   
 v -> speed in m/s  
 t -> perception-reaction time  
 f -> coefficient of friction  
 G -> grade/slope of road

### Parabolic Summit Curve

$L > S$   
 $L = \frac{A(S)^2}{200(\sqrt{h_1} + \sqrt{h_2})^2}$   
 $L < S$   
 $L = 2(S) - \frac{200(\sqrt{h_1} + \sqrt{h_2})^2}{A}$   
 L -> length of summit curve  
 S -> sight distance  
 h1 -> height of driver's eye  
 h2 -> 1.143 m or 3.75 ft  
 h0 -> height of object  
 h0 -> 0.15 m or 0.50 ft

### Parabolic Sag Curve

$L > S$   
 $L = \frac{A(S)^2}{122 + 3.5S}$   
 $L < S$   
 $L = 2(S) - \frac{122 + 3.5S}{A}$   
 A -> algebraic difference of grades, in percent  
 L -> length of sag curve  
 S -> sight distance

### Asymptotic Sight Distance

$L > S$   
 $L = \frac{A(S)^2}{800H}$   
 $L < S$   
 $L = 2(S) - \frac{800H}{A}$   
 A -> algebraic difference of grades, in percent  
 L -> length of sag curve  
 $L = \frac{A(K)^2}{395}$  for passenger comfort, where K is speed in km/h

### Horizontal Curve

$L > S$   
 $R = \frac{S^2}{8M}$   
 $L < S$   
 $R = \frac{L(2S - L)}{8M}$   
 L -> length of horizontal curve  
 S -> sight distance  
 R -> radius of the curve  
 M -> clearance from the centerline of the road

# Quantity Surveying Formulas

**CH Cherryholmes**



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