SOKKIA™

MANN
1995

MADE IN U.S.A.

SOKKIA™

ECONOMY FIELD BOOK

GILA BEND
SOUTH MAIN ST.
92
WO# 16062

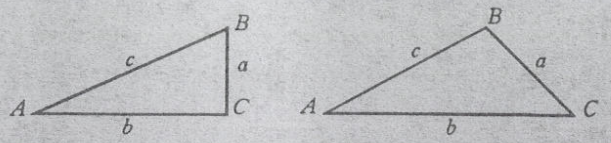
MARICOPA COUNTY D.O.T.

CREW
3343

No. 8152-05

DIN# 47478-1

FORMULAE FOR SOLVING RIGHT TRIANGLES



$\text{Sin } A = \frac{a}{c} = \text{Cos } B$ $\quad \text{Cot } A = \frac{b}{a} = \text{Tan } B$

$\text{Cos } A = \frac{b}{c} = \text{Sin } B$ $\quad \text{Sec } A = \frac{c}{b} = \text{Cosec } B$

$\text{Tan } A = \frac{a}{b} = \text{Cot } B$ $\quad \text{Cosec } A = \frac{c}{a} = \text{Sec } B$

Given	Required	Solution
A, c	B, a, b	$B = 90° - A, a = C \sin A, b = C \cos A.$
A, b	B, a, c	$B = 90° - A, a = b \tan A, C = \frac{b}{\cos A}.$
A, a	B, b, c	$B = 90° - A, b = a \cot A, C = \frac{a}{\sin A}.$
a, c	A, B, b	$\sin A = \frac{a}{c}, \cos B = \frac{a}{c}, b = \sqrt{(c+a)(c-a)}$
a, b	A, B, c	$\tan A = \frac{a}{b}, \cot B = \frac{a}{b}, c = \sqrt{a^2 + b^2}$

FORMULAE FOR SOLVING OBLIQUE TRIANGLES

Given	Required	Solution
A, a, b	B, c	$\sin B = \frac{b \sin A}{a}, c = \frac{a \sin C}{\sin A}$
A, B, a	b	$b = \frac{a \sin B}{\sin A}$
a, b, C	A, c	$A + B = 180° - C, C = \frac{a \sin C}{\sin A}$
a, b, c	Area	side $\frac{a+b+c}{2}$, area $= \sqrt{s(s-a)(s-b)(s-c)}$
A, b, c	Area	area $= \frac{bc \sin A}{2}$
A, B, C, a	Area	area $= \frac{a^2 \sin B \sin C}{2 \sin A}$

MADE IN U.S.A.

①

12-13-1995
CLEAR, COOL
75°

GILA BEND

SOUTH MAIN STREET

ALIGNMENT

CREW

MANN P.C.
HIRSCH
ENNISS
ABRAMS

DIN # 47478-2

PAGE: 1) TITLE PAGE

2) INDEX

3) ALIGNMENT

4) STORE POINT DATA. (COORDINATES)

5)

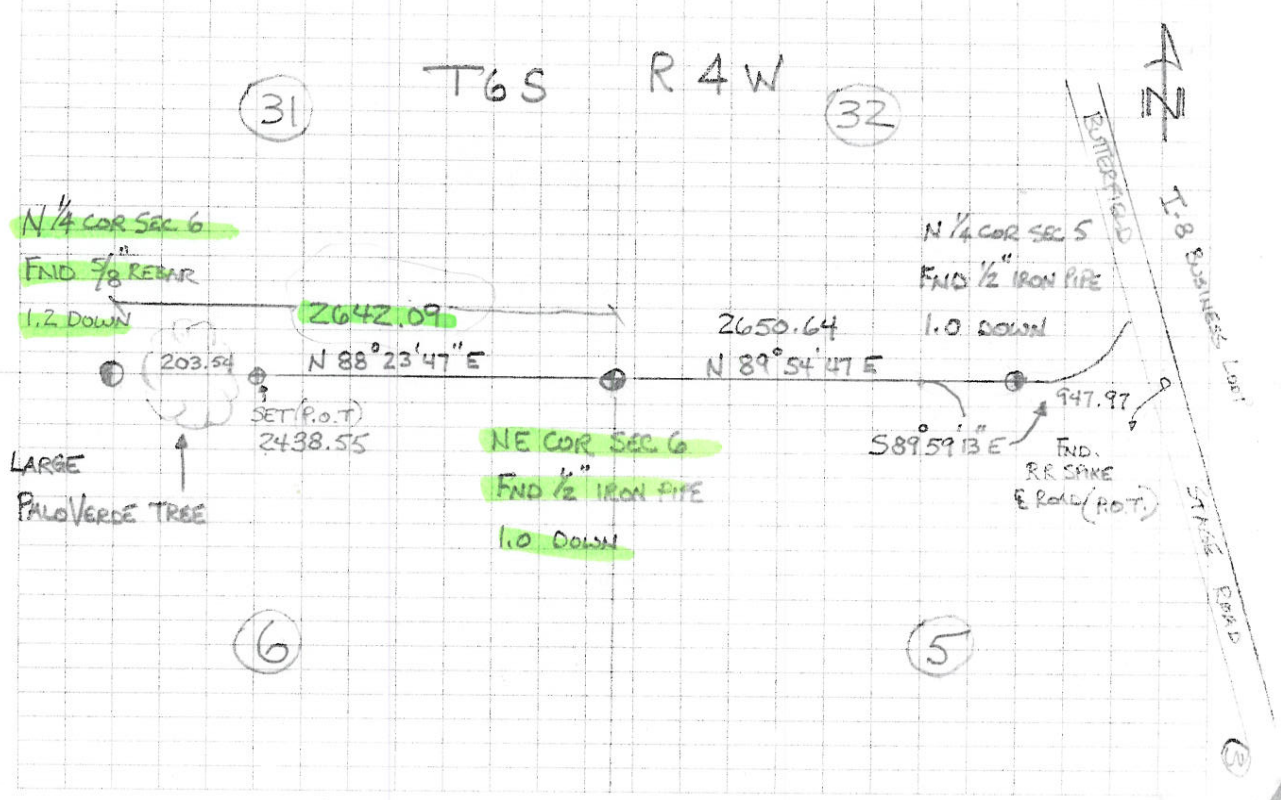
6) SUN SHOT

DIN # 47478-3

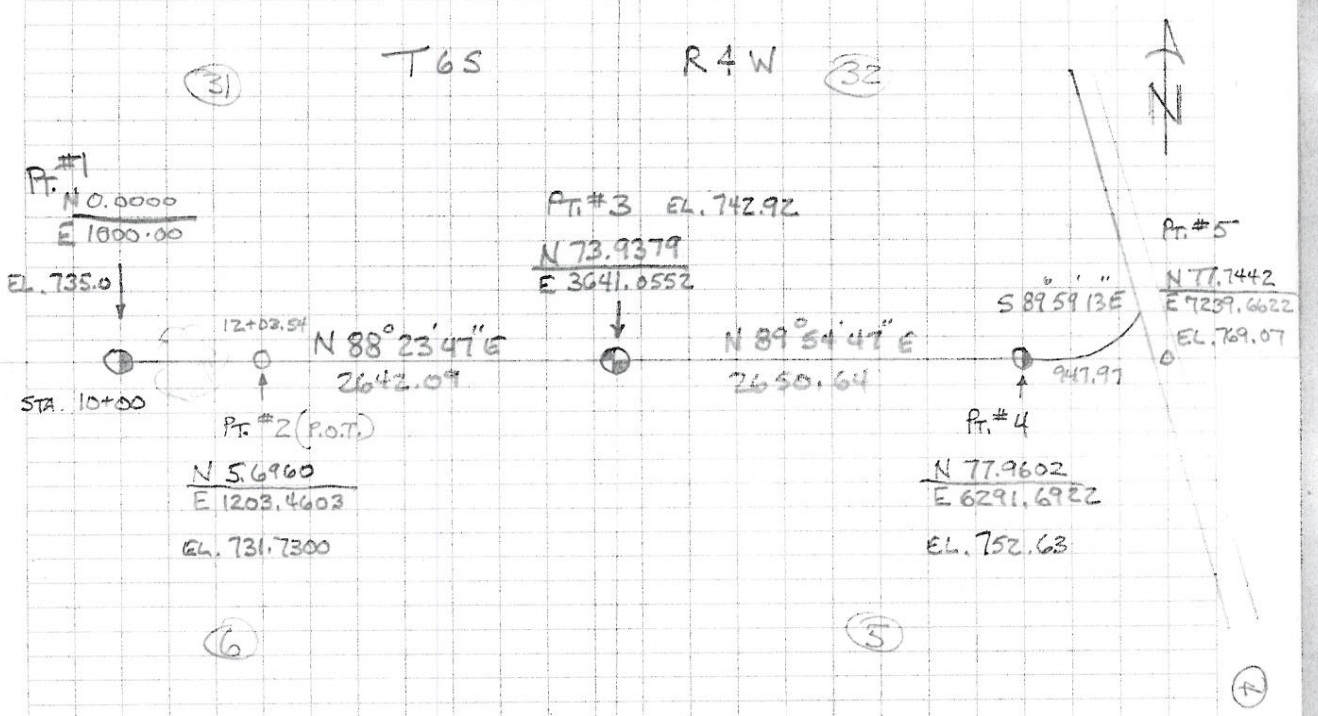
DIN #47478-4

ALIGNMENT

2647.40 (C) miller's distance
2642.09 (R)
Δ 5.31



3

STORE POINT DATA.

DN # 47478-5