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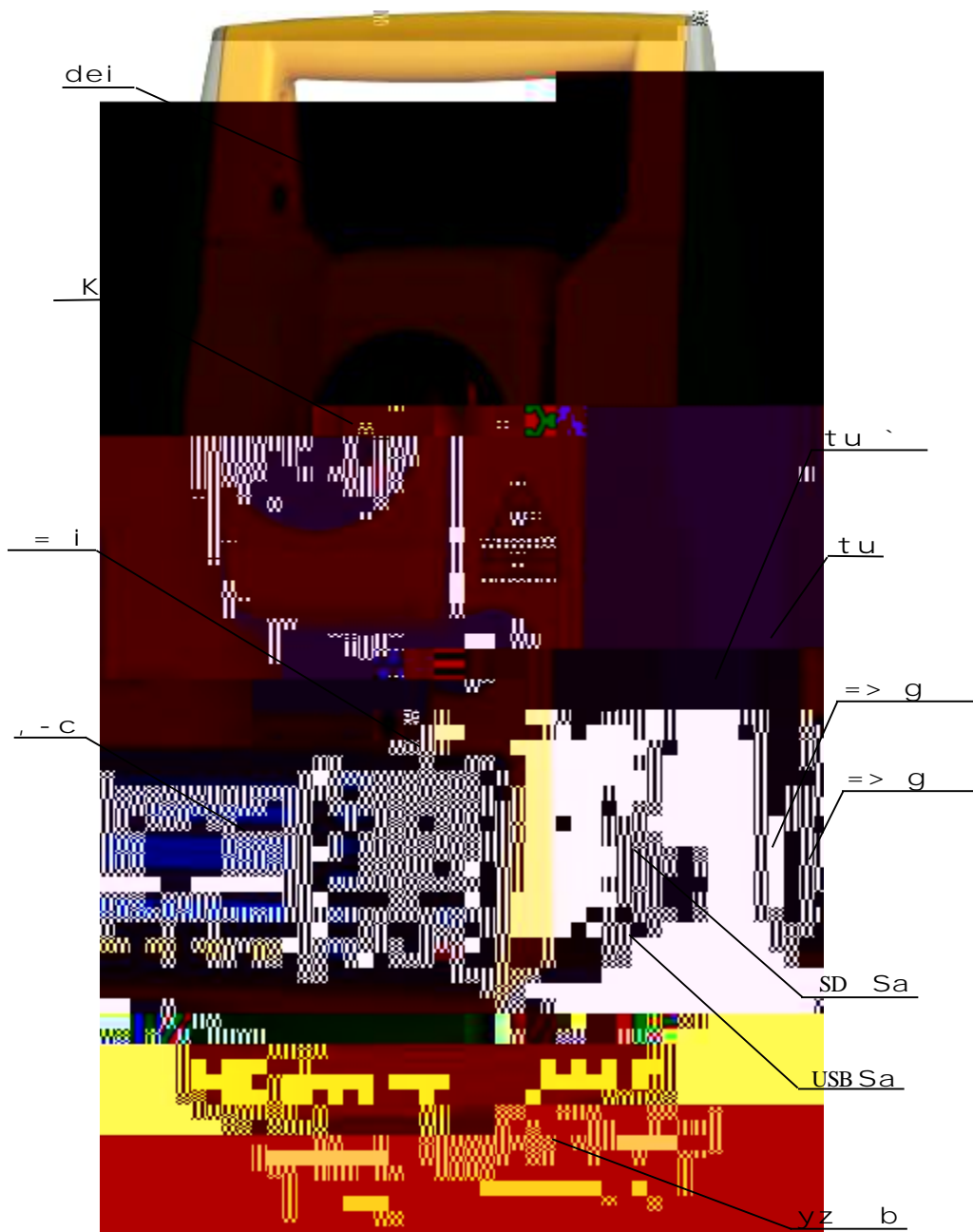


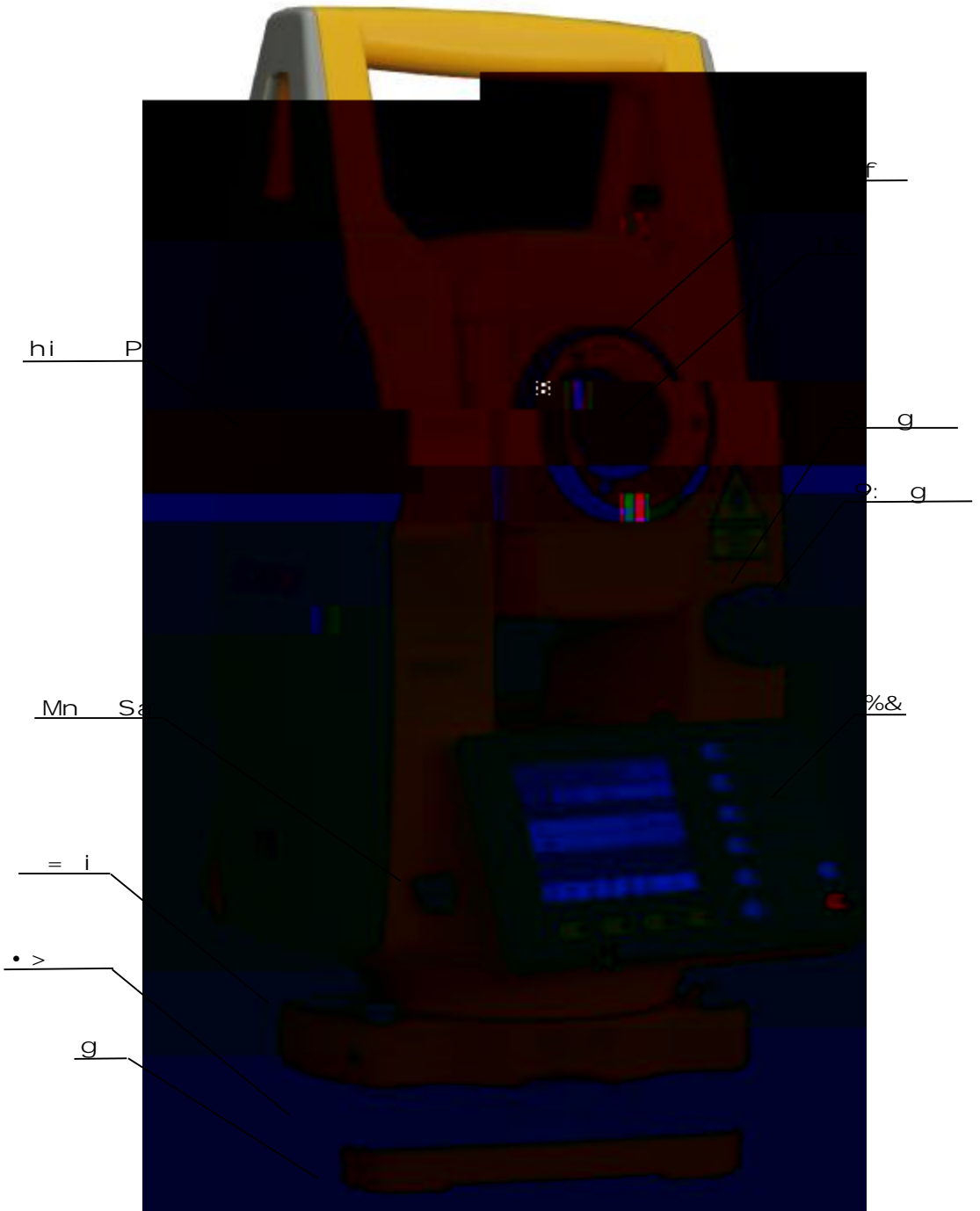
b KL 7MD ONO P  
c Q R : O% O hi #. O%  
d S Q O ? & ?TU VW O% O%X ( K  
L( &Ec\*) g @YQ O%  
e O%? @78 ?  
f O Z[ qr \C G? ]  
g Q O% I > KX X45 O e > KX^  
K?  
\* &Ec \_ O% O% ; <&?dQEc

92 Class 3R / , a ( ) &8%46A%: ; <2=AB1 1000m(3300ft)<>?AB  
@A<( ) B=CDE Class 1(FGHI ) J s KLMN=)O

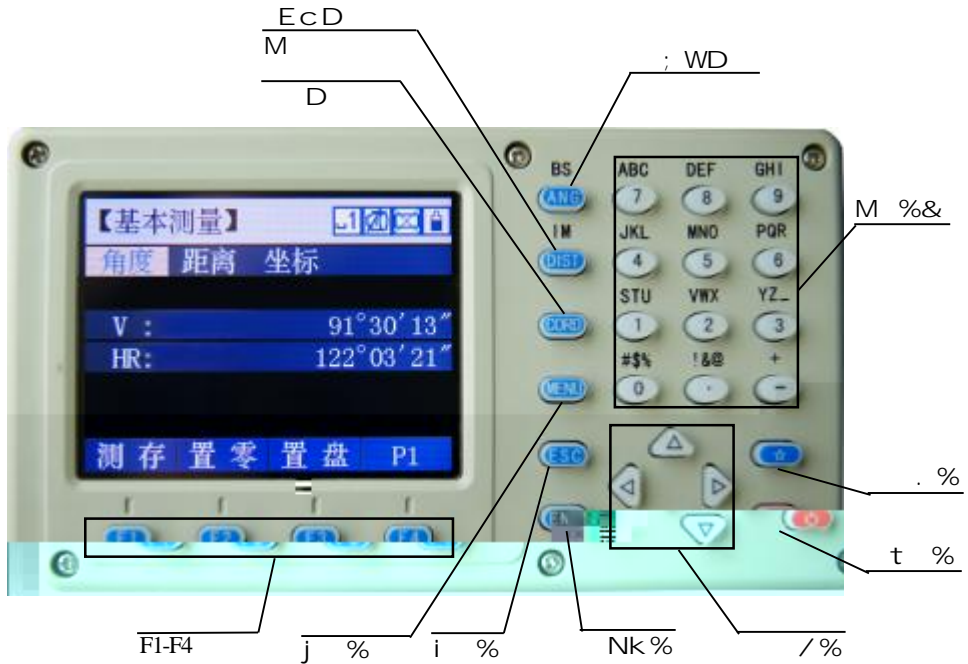
\$P%&' ( ) \* +, - . /

1.1





1.2



QRST

h %	# \$	' (
ANG	; WD %	; WD 23( i )
DIST	EcD %	EcD 23( M / )
CORD	D %	D 23
MENU	j %	j 23
ENT	Nk%	Mn q Mn
ESC	i %	Ul mN , - c 23
⏏	t %	t ? 4/5
F1nF4	%	' ( op, - ? * +
0n9	M %	M < j Uj
Un -	P%	PXeM XCqP
★	. %	hi L ' (?

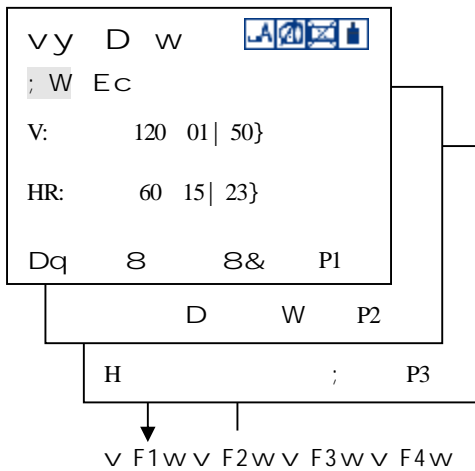
VWSTh

, - P	
V%	9: ; ( W, - )
HR	=>; ( ; )

HR	=> ( ; )
HD	=>Ec
VD	
SD	AE
N	r /
E	s /
Z	
m	
ft	
fi	)

### 1.3

; WD 23 (t u j )



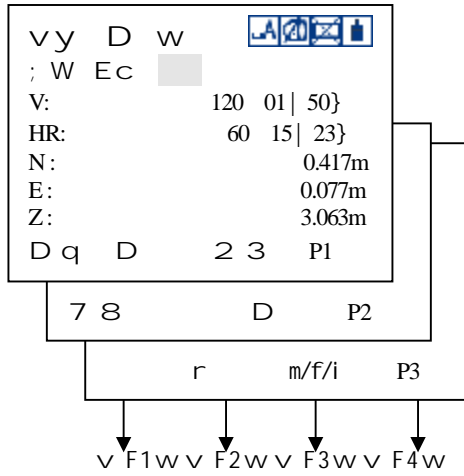
xM	%	, - P	' (
y 1x (P1)	F1	Dq	g; WD D Mn D ?o" (D o" < o" Mn '( j )
	F2	8	=>; 8
	F3	8&	%& 78 =>;
	F4	P1	, - y 2x '% (
y 2x (P2)	F1		=>; TM
	F2	D	=>; D
	F3	W	9: ; /z { W?
	F4	P2	, - y 3x '% (
	F1	H	hi g =>; 0 90 180 270 ? 78

y 3x  
(P3)

F2  
F3

=> ; / ; ?

D 23(t u j )



xM	%	, - P	' (
y 1 x (P1)	F1	Dq	g D D Mn D ?o" (D o" < o" Mn ' ( j )
	F2	D	g D
	F3	23	78DE23 D/N D/ D/• ? , 78HI FG<JKLM
	F4	P1	, - y 2x %' (
y 2 x (P2)	F1	78	78} <hi
	F2		78 ?
	F3	D	78D ?
	F4	P2	, - y 3x %' (
y 3 x (P3)	F1		D 23
	F2	r	r 23
	F3	m/f/i	78Ec / /
	F4	P3	, - y 1x %' (

1.4 ( )

h (O)% c" , -



o

2 X 2 O

[ . %(O) hi 78

1X# \$ h[◀] [▶]% ~% K&# \$ ?' W

2X [ ]% B O O?

3X(O' W h[ ] [📄]

O<1 234

2.1 /

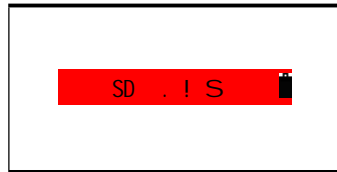
%

84t hi , - - p-



h  
[POWER]

SD hi SD D

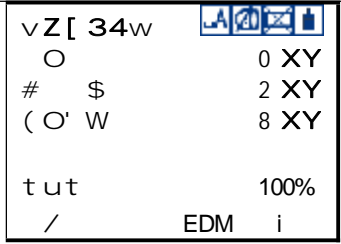
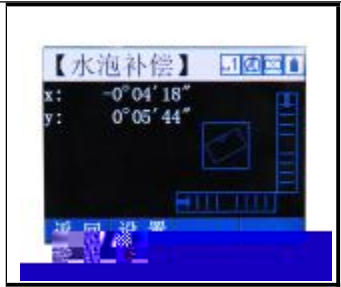



vy D w 

D fg D 23


4 BC9: ; < @A => ; ? 6(  
 - + 6(, 5 @ • >hi  
 BC9: ; 9: ; 6( H9 -  
 51 i 51  
 8 hi : R,9: ; , - : ? , ;  
 i 51 <g ? i 6 ,hi - = \* +3 >  
 D

[ ] " 78@ABC

	%	, -
. (O)%23	[O]	
h[F2]%, 78' (	[F2]	
? hi @A6 BC • >hi h+3.2Xs8hi , @A? B C , - c - , - D1) : 9: ; 4 9: ; <=>;		

Eh[F2](78)

y  
1 [O] . %(O)23 h[F3]%  
[F3]

v EDM 78w	
EDM 23	D XY
HI	J KXY
J KLM	0.0 mm
R!	7 P1

v EDM 78w  78i

y h[L]% g, JKLM? MO  
2 [L] h[◀ ▶]%~% JK23 P  
78JKLM

y 1	[O]	. %23	<div style="border: 1px solid black; padding: 5px;"> vL 78w   O 0 XY  # \$ 2 XY  (O' W 8 XY    tut 100%  / EDM i </div>
y 2	[F3] [F4]	h[F3]( M)% M78 h[F4]/P11 x	<div style="border: 1px solid black; padding: 5px;"> v EDM 78w     EDM 23 D XY  H I J KXY  J KLM 0.0 mm    * P LM P2 </div>
y 3	[F1]	h[F1]/ * P1 , - HI O? W(*P) hi S ? O W TZ - Z c" - 1 D1)	<div style="border: 1px solid black; padding: 5px;"> v EDM * Pw     EDM FG RX  <div style="border: 1px solid black; width: 100%; height: 15px; margin: 5px 0;"> <div style="background-color: black; width: 50%;"></div> </div> 50%    mN </div>
D1)h[ESC]% mN. %23			





## 2.6

EcD EcZ D QRT" ?  
S[ QRT" ? EcD @ R! BC M BC  
VW hi ? \RVW  
RY hi ? QRY  
PPM Z \ ] < D? R! BC  
8NTS h R! T" ( hi R! BCZ 0 ? R! T" )  
RY 1013hPa  
VW 20]C  
8QRBC? \ ]  
 $\wedge S = 278.44 \_ 0.294922 P / ( 1 + 0.003661T ) (ppm)$   
3  
 $\wedge S$

P RY ( hPa)  
 ?RY mmHg h 1hPa = 0.75mmHg ]  
 T VW ( ]C)

2.6.1

i D VW<RY P hi nBC` 3 ] QRBCZ (PPM)

	%		
y 1	[O] [F3]	. %23 h[F3](EDM)%	<div style="border: 1px solid black; padding: 5px;">                     vEDM 78w                       EDM 23 D XY                      HI JKXY                      JKLM 0.0 mm                      R! 7 P1                 </div>
y 2	[F1]	h[F1]%(R! ) R! M n 78	<div style="border: 1px solid black; padding: 5px;">                     vR! Mnw                       ^O M 0.14                      V W 20.0a                      R Y 1013.0hPa                      R! BC 0.OPPM                      mN i PPM=0 7                 </div>
y 3	[F2] [◀ ▶] [F3]	h[F2]%( i ) i 78, i &h[◀ ▶]% j k i 4 h[F3]%(T U) c" , - VW<RYZ	<div style="border: 1px solid black; padding: 5px;">                     v i w                       i 4 XY                      V W Z 20.0a                      R Y Z 1013.0hPa                      mN TU 7                 </div>
y 3	[F4]	h[F4](7 ) c" mN R! M nu hi ! fg\] PPM Z D1)	<div style="border: 1px solid black; padding: 5px;">                     vR! Mnw                       ^O M 0.16                      V W 27.0a                      R Y 1008.0hPa                      R! BC 7.9PPM                      mN i TU 7                 </div>


D1) i 4 R! Mnu [F3] 8, - +TU, Ju h[F3]% fgbU  
?VWXRY<R! BCZ

2.6.2

D] D ?VW<RY VW+25a RY 1017.5

	%		
y 1	[O]	. %23	<div style="border: 1px solid black; padding: 5px;">                 vL 78w                  O 0 XY                  # \$ 2 XY                  ( O' W 8 XY                  tut 100%                  / EDM i             </div>
y 2	[F3]	h[F3](EDM)% EDM 78' (. .	<div style="border: 1px solid black; padding: 5px;">                 vEDM 78w                  EDM 23 D XY                  HI J KXY                  J KLM 0.0 mm                  R! 7 P1             </div>
y 3	[F1] [F4]	h[F1](R!)% R! Mn VW <RY n ?VW<RY \] PPM Z D1) 78 h ENT h [F4](7 )% c" mN EDM 78	<div style="border: 1px solid black; padding: 5px;">                 vR! Mnw                  ^O M 0.15                  V W 20.0a                  R Y 1013.0hPa                  R! BC 1.0PPM                  mN i PPM=0 7             </div>
D1): i 51 H( g VW<RY1\] PPM Z H +3.7 M ? , VW -99.9 n+99.9a ( 0.1a) -99.9n+99.9c( 0.1c) RY 0n1066hPa( 0.1hPa) 0n1066mmHg( 0.1 mmHg) 0n1066i nHg( 0.1 inHg) V n ?VW<RY] ?QRBCZ6 d999.9ppm mN y 2 Mn			



y 3	[F1] [F4]	h[F1](R!)% R! Mn ^O M D1) 78 h ENT h [F4](7 )% c" mN EDM 78	 vR! Mnw ^O M 0.15 V W 20.0a R Y 1013.0hPa R! BC 1.0PPM  mN i PPM=0 7
D1) H +3.7 M ? , hi ?QR^O M j . 78 K=0.14 KZ 0.0 0.2 j			


2.8 /

deTM? 78, j k; W/EcD ?, -

hi FG	; W	Ec
NTS-380R	1} /5} /10} /0.1}	1mm /0.1mm



[ ]; WdeTM 0.1}

h[MENU]%, kj hM %[5]( [MENU]  
78) [5]



 vj w 1l Mn 2l r 3l q 4l 5l 78 6l C  P1
---




v 78w 

h[1]%( 78) [1]

<p>?hh[K L]%j k 78; W Wj h[◀ ▶]%~%, h[F4](7 )</p>	<p>/% [F4]</p>	<p>v 78w  ; W W /&lt;&gt; ; W W 1/&lt;&gt; Ec &lt;&gt; Ec W 1o &lt;&gt; VW pqW&lt;&gt; RY hPa&lt;&gt; 7</p>
<p>Ec" mN 78j</p>		<p>v 78w  1l 78 2l 78 3l 78 4l m78 5l Mn 78 6l n j 78</p>

2.9

<p>V7 O Rh% C ?D hi fg56</p>	<p>%</p>	<p>, -</p>
<p>h[MENU]%, kj , hM %[5]( 78)</p>	<p>[MENU] [5]</p>	<p>vj w  1l Mn 2l r 3l q 4l 5l 78 6l C P1</p>
<p>78u</p>		<p>v 78w  1l 78 2l 78 3l 78 4l m78 5l Mn 78 6l n j 78</p>

<p>?h[4]%( 78)</p>	<p>[4]</p>	<p>v 78w </p> <p>9; 23 &lt;&gt;</p> <p>DE 4 &lt;&gt;</p> <p>h% 4 &lt;&gt;</p> <p>4623 Ec&lt;&gt;</p> <p>fg56 51&lt;&gt;</p> <p>23 SD/HD&lt;&gt;</p> <p>7</p>
<p>Eh[◀ ▶]% fg56 7 10 O/20 O/30 O/51 j k P h [F4](7 )%</p>	<p>/</p> <p>[F4]</p>	<p>v 78w </p> <p>9; 23 &lt;&gt;</p> <p>DE 4 &lt;&gt;</p> <p>h% 4 &lt;&gt;</p> <p>4623 Ec&lt;&gt;</p> <p>fg56 51&lt;&gt;</p> <p>23 SD/HD&lt;&gt;</p> <p>7</p>
<p>r c" mN m78j</p>		<p>v 78w </p> <p>1l 78</p> <p>2l 78</p> <p>3l 78</p> <p>4l m78</p> <p>5. Mn 78</p> <p>6. n j 78</p>



2.10

h 12.9+hi LM, ? ] hi LMZ hi LM78?

%

vL 78w 




[O]% kj ,h[F3]%, /EDM17 [O]  
8u [F3]

<p>[EDM] 78u h[F4](P1)% P o[LM]j h[F2](LM)%</p>	<p>[P1] [F2]</p>	<p>vEDM 78w  EDM 23 D XY HI JKXY J KLM 0.0 mm * P LM P2</p>
<p>? [LM78]u [ LM]&lt;[sL M] 78 78 h [F4]7 % u mN[EDM] 78</p>	<p>LM [F4]</p>	<p>vLM78w  L M 0.0mm s L M 0.0 ppm mN 7</p>
<p>D1) H +3.7 M ? , D2)h[ESC]% UI 78 ! " # \$%&amp;' ( ) * +, - . / 0 1 2 3 4 5 6 7 8 9 : ; &lt; = &gt; ? @ A B 3 4 C D 7 8 - . / &amp; O 1 ( D ) E F G H I J K L M O N O O 1 ) P ? Q R S 3 4 , 6 T U V A B 3 4 C</p>		

## 2.11

% , -  
vj w

[MENU]% kj h[F4](P1)% , - k [MENU]  
j , hM [1]% [F4]  
[1]

<p>? h[F1](~ )% , - pj ?l m o" D2)</p>	<p>[F1]</p>	<p>vj ko" w                   C001.SCO   m                  C002.SCO   m                  C003.SCO   m                  P1</p>
<p>Eh[K L]% o" / / tg j l mMno" h[◀ ▶] ux</p>	<p>[K L]</p>	<p>vj ko" w                   C001.SCO   m                  C002.SCO   m                  C003.SCO   m                  P1</p>
<p>r h[ENT](Nk)% ~ o" ' ,mNkj 2/2</p>	<p>[ENT]</p>	<p>vj w                   1l j k l mMno"                  P2</p>
<p>D1) H +3.7 M ? ,                  D2) &amp; 27 H +11.1.1 q &lt; 3 &amp; ,</p>		

## 5P67" 89:

### 3.1

no

\_r p = vw 84p ? x 4pv U hi

SL

v { |KKv !?9: g y<yz?= i w hi >z({ |K  
KUw )r p `9: g y v pv, 5 x

### 3.2

hi sv t; • >< GD V? W( ?  
! S ?t; )

UpqRr h

hi sv t; • >< GD V? W

1Py[sgmmYt ^

1) 7t;

{ t; 84 t; ?t|} ~ E } ~ => • ` t  
t; ? )D } ~ !"

?#` t; \$ \_%& \_

2) hi s8 t;

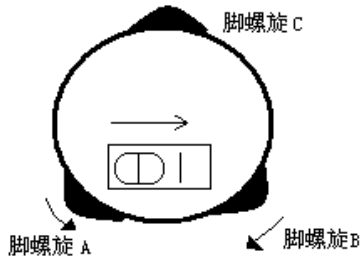
hi e \_s8 t; : ' Whi ( : 4 ! S  
hi : "` D P? P • ` ! S

3) ) = i d>hi

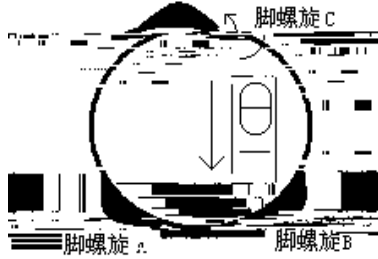
~ l ( ( ( ( ! )>hi

~

~



hi - 90 ( C = i R \* C



? hi 90 , X : . 8 R \* C Q

### 2) Py [ ] umm&mm

1) 7t;

t; / W t | X84 t; } ~ => D  
?C t; | % & \_ T |

2) s8hi <

hie \_s8 t; •` !S ~•O i # \$ O  
1 4 ' W( ~T\ ? | O i ? # \$ ~ % ~T | ? 8  
O i Q D t; tT | \_ ~ % h ? t  
O i D

3) ) = i d > hi

~•t; tT | ? W h = R \* C

4) ) = i > hi

4=> g ghi = i > , AXB ?!

AXB = i R \* C

hi 90a 9: AXB ?! C = i \* C

5) ) • >

O i ? # \$ 4 !S > hi ( hi ) hi  
D •` !S > hi  
J hi D Q

### 3.3

vwx y

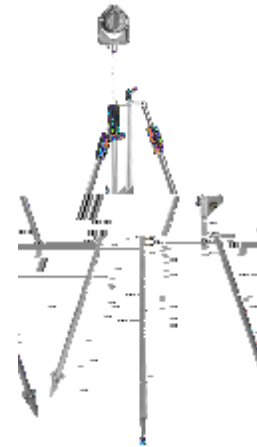
-----t x  
-----2 J\*+ tu3 4e 4 (5'.16?  
?tu xt  
-----t .C 7 8% 5 tu xt  
9: l --\_9: ;t56Q< ="> O tu. t M 5 tu  
xt  
  
tu ? ?U@ T" VWXxt <xt?  
M s o xt x t? tu  
tu)\* , - O) ?D 23 5 ;WD 23 tu)\*  
A (A Gtu EcD 23 ( EcD 236t  
; WD 0. 2. O)TD (?)Tj /F4+1 10. O. 8 Tf+1 3 170

### SL~g•t h

K xttu xt 300-500 tu rt l? JK  
K 5 \_b]tu?d JK H G xt

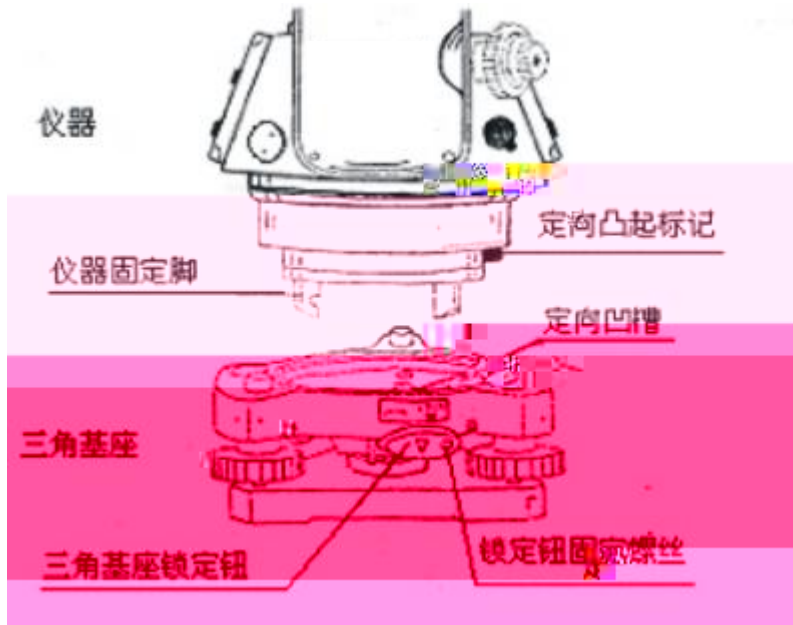
### 3.4

h F O D Ec @ } r8HI JK HI JK  
(L)JK yz! Si JK !S yz s8 t :  
Ss8 JK [ 5 n f 8  
DMhi ` Np ?JK - p-



### 3.5

!  
t; yz \_hi ( D yz?HI JKyz! Si ) w  
\$O 4yz b \$ P P Q g b



!"  
T hi ? /R )yz / ^ S fhi ?t r yz?  
b \$ `

### 3.6

e } ? (V W)  
{ |K 7' \ } KX ~Y. # \$( wfZ / } KX  
[[ ~Y \# \$)4  
) de i ?t; Z P? ]e } )e i  
Ec4  
?) { |K~Y } O 1  
} KU g 27~Y } K^OW \ ~  
#D? W ~Y ~%} KXI

### 3.7

NTS-380R h%&f M % J 5 :S M <  
\*# \$G%



h[.] + | ,  
 h[2] +2 , 4h[0] +0,  
 h[F4] 7  
 J => ; WM 90 10| 20}

\*# \$%S

[ 3] Mn 23 ? D I m+ SOUTH1,  
 1X [F4]%, Mn u

2X Mn u hM %[1] 78D

3X h[DIST]% 3 h [DIST] 3 M <

gh&' ( mVW) %\* +~, &# \$G%< VW) G%+~, &# \$%\* O  
 - [ANG](. /)Q<&O1 # \$8%SO  
 &2# \$8%\* m23456%\* > 7\$Q8<># \$- m8906%\* ~ <  
 ) E: ; <: E<

; P<=67>?

4.1

=>; ; <9: ; ?D  
; WD 23

e } ? (V W)

{ | K 7' \ } KX ~Y. # \$( wfZ / } KX

[ [ ~Y \# \$)4

) de i ?t; Z P? ] e } ) e i

Ec4

?) { | K~Y } O 1

D } KU } 1] £> (1) Tj /F4+1 1O. 44 Tf9. ðhj

4.2 ( / )

; WD 23

% , -

) => g p 78?=>  
h[P1]% [P2]x

, - ; W




vy	D	w	
; W Ec			
V :		120 01   50}	
HR:		90 09   30}	
Dq	8	8&	P1

vy D w   
; W Ec

V : 120 01 | 50}

H 5

[P2]x , ; [ ]' (%

} h[F3](8&)%	[F3]	vy D w  ; W Ec V : 120 01   50} HR: 90 09   30} Dq 8 8& P1
%& p ?=>; TM h[F4]7 % D1) 150]10  20}	[F4]	v8=>; w  =>; 150 10   20} mN 7
?=>; W 78 e _p ?=>; CL?D		vy D w  ; W Ec V : 120 01   50} HR: 150 10   20} Dq 8 8& P1

4.4 (%)


; WD 23

%

vy D w 

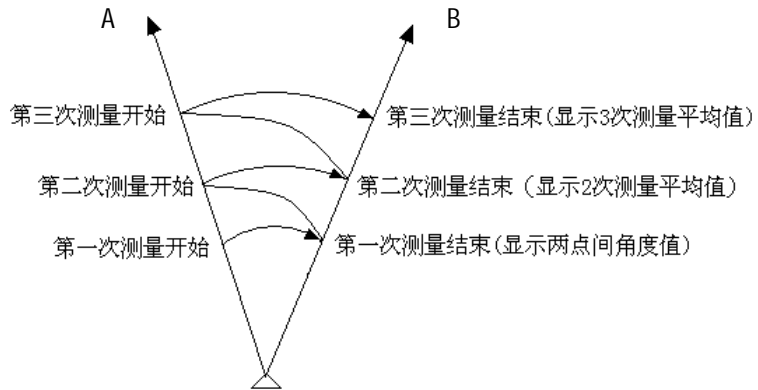
① [F4]ux%P1] [P2]

[F4]

h[F3]( W)% D1)	[F3]	<div style="border: 1px solid black; padding: 5px;">             vy D w               ; W Ec              V : -57.84%              HR: 120 09   30}              D W ux           </div>
D1) h[F3]( W)% , - 23 d WS} 90)( f Q) , - 4 - +6( , (6 D )		







#### 4.5




=> ; ( ; )D 23 ; W D  
 => ; ( ; )D 23



%  
 vy D w 

h[P1]% [P2]' (j [F4]

<p>h[F2]( D)% ; W D23</p>	<p>[F2]</p>	<p>v; W Dw   M 0  &lt;Z 0 00  00}  Z 0 00  00}  HR: 120 09  30}  i</p>
<p>? } A h[F1]( )%</p>	<p>} A [F1]</p>	<p>v; W Dw   D b</p>
<p>Eh[F3]( )% D' ( u</p>	<p>[F3]</p>	<p>v; W Dw   M 0  &lt;Z 0 00  00}  Z 0 00  00}  HR: 0 00  00}  i</p>
<p>r =&gt; g&lt; g } B h [F4]( )%</p>	<p>} B [F4]</p>	<p>v; W Dw   M 1  &lt;Z 120 20  00}  Z 120 20  00}  HR: 120 20  00}  i</p>
<p>g =&gt; g&lt; g } A h[F4](h )%</p>	<p>} A [F4]</p>	<p>v; W Dw   M 1  &lt;Z 120 20  00}  Z 120 20  00}  HR: 0 00  03}  i h</p>
<p>i =&gt; g&lt; g } B h[F4]( )%</p>	<p>} B [F4]</p>	<p>v; W Dw   M 2  &lt;Z 240 40  02}  Z 120 20  01}  HR: 120 20  05}  i</p>




<p>j gni : p ?D M 6 D1) D2)</p>		<p>v; W Dw  M 6 &lt;Z 722 00  06} Z 120 20  01} HR: 120 20  00} i h</p>
<p>k i ; W D h[F2](i ) h [F3]( ) c" mNCLD; 23</p>	<p>[F2]  [F3]</p>	<p>v; W Dw  i ; W Db  vy D w  ; W Ec V : 120 01  50} HR: 120 09  30} D W P2</p>
<p>D1)=&gt;; I \ (3600 00  00} - deTM) =&gt;; ( ; )?m; deTM 5/?m; =&gt;; I \ d3599 59  55} D2) ; W#D8V) { #DZD 6 d30} , - =* +</p>		

#### 4.6 90

V=>; n 0](90)X180] 270])d4]30] W S} d15}  
W oQ J 7856 ; WD 23

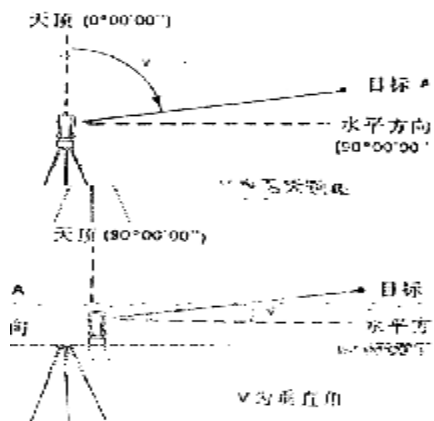
% , -  
vy D w 



[F4](P1)%~ [P3]' (x [F4]  
~

<p>h[F1](H )% , - 78</p>	<p>[F1]</p>	<p>vHA w </p> <p>45 <span style="background-color: #cccccc;">      </span> 51 &lt; &gt;</p> <p>mN 7</p>
<p>?h[◀ ▶]% j k i ?4/5 78 h7 mNy D u</p>	<p>[◀ ▶]</p>	<p>vHA w </p> <p>45 4 &lt; &gt;</p> <p>mN 7</p>
<p>E78 h[7 ] mNy D u</p>	<p>[F4]</p>	<p>vy D w </p> <p>; W Ec</p> <p>V: 10.30%</p> <p>HR: 120 09   30}</p> <p>H ; P3</p>

#### 4.7

9: ; , - - p-



	%	, -
h[P1]~ [P3]' ( u	[F4] ~	<div style="border: 1px solid black; padding: 5px;">             vy D w               ; W Ec              V: 19 51   27}              HR: 120 09   30}              Dq 8 8&amp; P1           </div>
h[F3]( ; )% D1)	[F3]	<div style="border: 1px solid black; padding: 5px;">             vy D w               ; W Ec              V: 70 08   33}              HR: 120 09   30}              Dq ; P3           </div>
D1) h[F3]( ; )% , - 23 d		

**@PAB67>?**

NTS-380R h D F DE23 ODET"  
 HI } ( F) EcD pD ?Ec p= p  
 &- / 67 Q~<%&>m>) d%8 EnoAB67O  
 DE XqkXg Xrg?st DEO ! O%  
 HI Nhi \_3 Ec8V?  
 HI i D 23 HI GD 23 D O% uV v

**?@A6A**

8 O% w} O ? R HI b? HI  
 8 gEcD EDM O ? DE VJ O x yz  
 ( ?qk Q X{ | } - ~) EDMpD ?Ec d} yz ?E  
 c  
 8 Q EcD O% c D W •? O%  
 ?HI ( )# \$ ? J 5 ~• O%)  
 (H o+12.11 JKDE, ! )  
 8 ~ hi } D

**m@ABC6ADI [ E9>?(@A>?)O**

**EF() 9GHI J 6A**

O HI GDE GD W O%9: HI G  
 C ~• (H o+12.11 JKDE, ! )

**Kks7HI @A8[ K^LZGO**

EcD L QRBC? 78<JKLM? 78 EcD  
 5 QRBC<JKLM? 78 H +cX 78,

5.1

--	--	--

h [DIST] %      DEu      EcD      [DIST]  
4      D1)

vy	D	w		
; W		Ec		
V:	87	25   25}		
HR:	120	09   30}		
AE:	----.----m			
>E:	----.----m			
:	----.----m			
Dq	D	23	P1	

[F2]D

vy	D	w		
; W		Ec		
V:	87	25   25}		
HR:	120	09   30}		
AE:	241.551m			
>E:	235.343m			
:	36.551m			
Dq	D	23	P2	

vy D w

?D      , - pDEc      -  
D      ?u      D2)      D3)

D1)	Ot DE (EDM)C	D u	[F4][oQ]%i	D u
D2)	Ec?	- +m, ( )X+ft, ( )X+fi, ( ) e-	W	EcM
	n5			
D3)	VD 8V QR<g?	hi fg	D	
D4)	3 +7.6Mn	78,		

## 5.2

NTS-380R h V D / D2 / D3 / D4 / D5 / D!

" /• D D 23 5 n j k

%

vy D wD 

h [DIST]% DEu EcD [DIST]

4

%

, -

vy D w

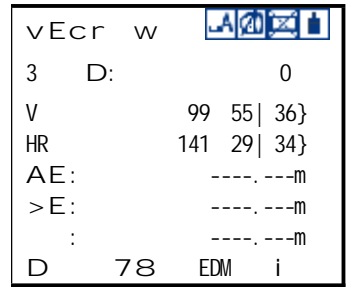


① [P1]% [P2]' ( u

[F4]

h[F2](r )%

[F2]



?h[F2](78)78r D 23 h

%j k>Er r AEr t D

[F2]

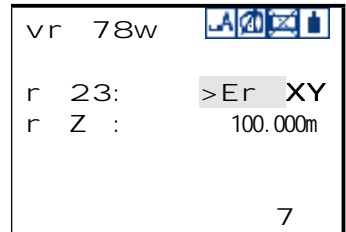
23,h/ %78 r MZD1).

[◀ ▶]

h[F4](7 )% q. -,78 >

[F4]

Er 23.



vEcr w

EN Ecr u

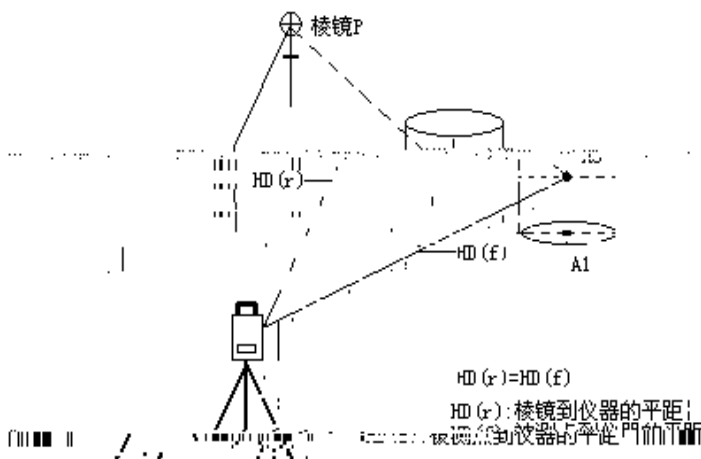
<p>g g} JK : &gt;E, - 0m Q</p>	<table border="1"> <tr> <td>vEcr w</td> <td colspan="2">[Icons]</td> </tr> <tr> <td>3 D:</td> <td colspan="2">0</td> </tr> <tr> <td>V</td> <td>99 55   36}</td> <td></td> </tr> <tr> <td>HR</td> <td>141 29   34}</td> <td></td> </tr> <tr> <td>AE:</td> <td colspan="2">2.164m</td> </tr> <tr> <td>dHd:</td> <td colspan="2">0m</td> </tr> <tr> <td>:</td> <td colspan="2">1.250m</td> </tr> <tr> <td>D 78</td> <td>EDM</td> <td>i</td> </tr> </table>	vEcr w	[Icons]		3 D:	0		V	99 55   36}		HR	141 29   34}		AE:	2.164m		dHd:	0m		:	1.250m		D 78	EDM	i
vEcr w	[Icons]																								
3 D:	0																								
V	99 55   36}																								
HR	141 29   34}																								
AE:	2.164m																								
dHd:	0m																								
:	1.250m																								
D 78	EDM	i																							
<p>D1) H +3.7 M ? ,</p>																									

### 5.5






- . D 23
- 1 ; W D
- 2 Ec D
- 3 > D
- 4 D

#### 5.5.1

JK: S 7 X J 23 # ? s ? : s 8 JK  
 <hi >ED ? P 78hi W/} D ] D  
 8?  
 D A0? \_ A1? 78hi /}  
 D A0 ? : 78hi (78} 0)



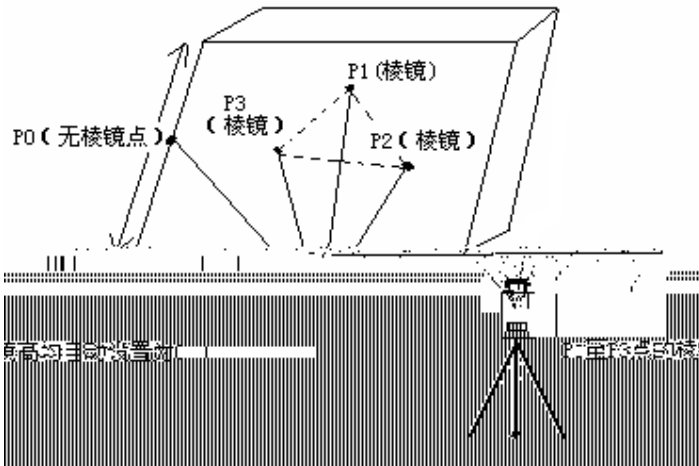
D 78hi /}  
78D ? +6.2D ? 78,

	%	, -
DE23 h[F4](P1)% [P2] x ' ( u	[F4]	<div style="border: 1px solid black; padding: 5px;">           vy D w             ; W Ec            V 99 55   36}            HR 141 29   34}            AE: ----. ---m            &gt;E: ----. ---m            : ----. ---m            Dq D 23 P1            r m/f/i P2         </div>
[F1]( )% D u	[F1]	<div style="border: 1px solid black; padding: 5px;">           v D w             1 ; W            2 Ec            3 &gt;            4         </div>
?hM %[1](; W ), D	[1]	<div style="border: 1px solid black; padding: 5px;">           v; W w             V 99 55   36}            HR 141 29   34}            AE: ----. ---m            &gt;E: ----. ---m            : ----. ---m            Ec D         </div>
E J K P h[F4](D )% D23 h[F4](oQ)8% D D hi JK ?Ec D1)	JK [P] [F4]	<div style="border: 1px solid black; padding: 5px;">           v; W w             V 99 55   36}            HR 141 29   34}            AE: ----. ---m            &gt;E: ----. ---m            : ----. ---m            Ec D  <hr/>           vEcD w             2 D 1            V 99 55   36}            HR 141 29   34}            AE 2.557 m            &gt;E 2.175 m            1.278 m            oQ         </div>





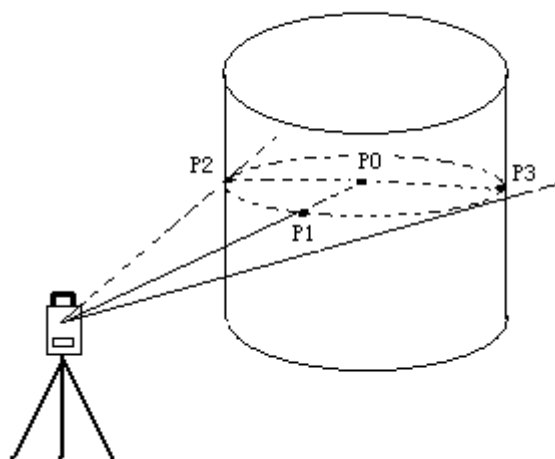
r JK P1 h[F1](D )%4 D  
D23 h[F4](oQ)%8  
%D P1  
[F1]  
DE 8% , - EBC  
?D 8V





<p>rh yc &lt;yt D</p>	<p>P2 [F1]</p> <p>P3 [F1]</p>	<pre> v&gt; w P 1 V 99 55  36} HR 141 29  34} AE: 0.556m &gt;E: 0.588m : -0.534m D  v&gt; w P 2 V 108 23  34} HR 141 29  34} AE: 0.378m &gt;E: 0.358m : -0.119m D                     </pre>
<p>ghi \] , - ) &gt; ? &lt;EcZ</p>		<pre> v&gt; w P 3 V 108 23  34} HR 141 29  34} AE: 0.378m &gt;E: 0.358m : -0.119m D                     </pre>
<p>i ] P3 h[ ]% &gt; (P0)</p>	<p>P0</p>	<pre> v&gt; w V 93 49  37} HR 90 09  34} AE: 0.457m &gt;E: 0.456m : -0.030m mN Ec i                     </pre>
<p>j h[ ]% , - P0 ? D1)</p>	<p>[ ]</p>	<pre> v&gt; w V 93 49  37} HR 90 09  34} N: -0.001m E: 0.456m Z: -0.031m mN Ec i                     </pre>
<p>D1)h[ESC]% mN D u D h( )% N E_ 4 D</p>		

5.5.4



?hM %[4 ) ] (

v

w



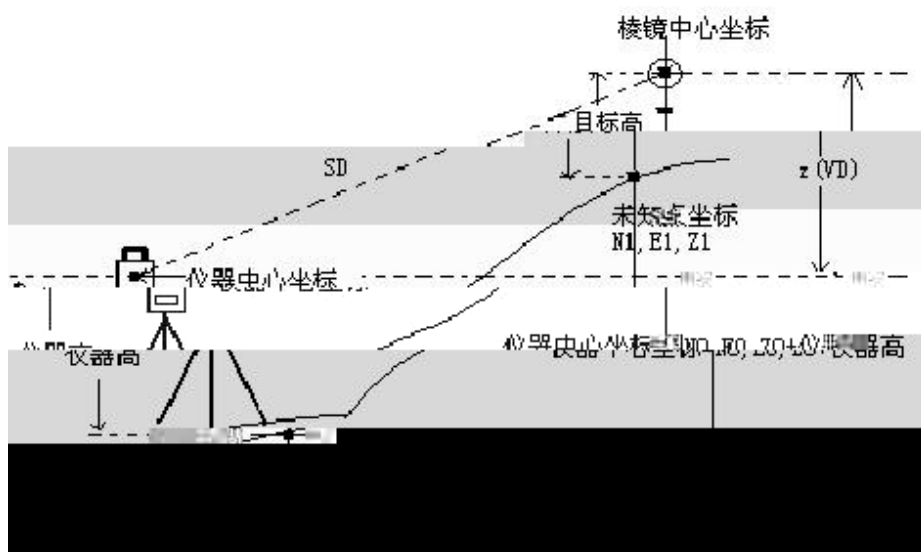
i , - P0 ? h[ ]% [ ]  
D1)

# CPDE 67 > ?






## 6.1

$hi = \frac{D^2}{2S} \approx \frac{D^2}{2 \cdot 1000} = 0.0005 D^2$   
 $78D = Z_0 + 6.2D \approx 78$   
 $78hi = \frac{D^2}{2} \approx 0.5 D^2$   
 $78 = Z_0 + 6.3hi \approx Z_0 + 0.3 D^2$

$\begin{cases} N_1 = N_0 + n \\ E_1 = E_0 + e \\ Z_1 = Z_0 + h + z \end{cases}$   
 $hi = \frac{D^2}{2S} \approx \frac{D^2}{2 \cdot 1000} = 0.0005 D^2$   
 $z(VD) = \frac{D^2}{2S} \approx \frac{D^2}{2 \cdot 1000} = 0.0005 D^2$   
 $hi = \frac{D^2}{2S} \approx \frac{D^2}{2 \cdot 1000} = 0.0005 D^2$   
 $z(VD) = \frac{D^2}{2S} \approx \frac{D^2}{2 \cdot 1000} = 0.0005 D^2$



$D = \sqrt{\frac{2S \cdot hi}{0.0005}}$

<p>① } A h[F2](D )% D % [F1](Dq) D q ?D 8 % #fg+1 Dq l m 2H? 4 D</p>	<p>JK [F2] [F1]</p>	<p>vy D w  ; W Ec  V 99 55  36} HR 141 29  34} N: ----.----m E: ----.----m Z: ----.----m Dq D 23 P1</p> <hr/> <p>vEcDqw  #: 1 l m: SOUTH } : 0.000m N: ----.----m E: ----.----m Z: ----.----m ` a l m D</p>
<p>- , - pD</p>		<p>vy D w  ; W Ec  V 99 55  36} HR 141 29  34} N 36.001 m E 49.180 m Z 23.834 m Dq D 23 P1</p>

6.2

78hi (D )D ? hi fg <, - \ (} )  
?


h[F4] %  
D 23 h[F4](P1)% / P21  
' (u [F4]

vy	D	w	
; W Ec			
V	99	55	36}
HR	141	29	34}
N:	----.---m		
E:	----.---m		
Z:	----.---m		
Dq	D	23	P1
78	D	P2	

h[F3](D )% [F3]

v 78D w

NO 0.000 m  
EO 0.000 m 0 m 0 m

<p>E            h[F4]/7 1% c" mN D 23</p>		<div style="border: 1px solid black; padding: 5px;"> <p>vy D w </p> <p>; W Ec <span style="background-color: gray; color: gray;">  </span></p> <p>V            99 55  36}</p> <p>HR           141 29  34}</p> <p>N:            ----, ---m</p> <p>E:            ----, ---m</p> <p>Z:            ----, ---m</p> <p>78            D        P2</p> </div>
<p>D1)        H o+3.7    M ?        ,</p> <p style="padding-left: 40px;">-99999999.9999    NXEXZ    +99999999.9999 m</p> <p style="padding-left: 40px;">-99999999.9999    NXEXZ    +99999999.9999 ft</p> <p style="padding-left: 40px;">-99999999.11.7    NXEXZ    +99999999.11.7 ft+inch</p>		

### 6.3

注: t 51        qhi

%            , -  
vy D w

D 23    h[F4](P1)% (P2)'        [F4]  
(u

D1)	H	+3.7	M ?	,
		-9999.9999	hi	+9999.9999 m
		-9999.9999	hi	+9999.9999 ft
		-9999.11.7	hi	+9999.11.7 ft+inch

### 6.4

J ' ( bUZ Z t 51 q}

		%	
① D 23 h[F4]% /P21 ' (	[F4]		vy D w ; W Ec V 99 55   36} HR 141 29   34} N: ----,---m E: ----,---m Z: ----,---m 78 D P2
h[F1](78)% , - ?hi <} ,h/ % O }	[F1]		v 78 Ww hi 1.453 m } 2.000 m mN 7
? } h[F4](7 )% } 78 D1)	[F4]		v 78 Ww hi 1.453 m } 2.000 m mN 7
D1)	H	+3.7	M ? ,
		-9999.9999	} +9999.9999 m
		-9999.9999	} +9999.9999 ft
		-9999.11.7	} +9999.11.7 ft+inch


## FPGHI J

Mn j ? h h [MENU]% hi kj 1/2 23  
h M %[1](Mn )

CLD 23

[ESC]

[MENU]

vj	w	
1l	Mn	
2l	r	
3l	q	
4l		
5l	78	
6l	C	
		P1

v840" w 

780"


NTS-380R D Mnq q  
q D Mno" < Mno"

## 7.1

1X j k Mn o" p Mnq o"  
 2X j k q o" Mn ? Mnq o"  
 3X j k ~ Mn o" D Mn Mn? ~ ( ~ .  
 Mn , J )  
 4X 8D hi <D P  
 5X 8 D / ;  
 6X 8 D ?} 4 q Mn

## 7.2

### 7.2.1

{ @j Mn o" gMn 23 o" j k , -  
 c [ J j o"  
 o" j k 23 ?Mn j  
 %  
 vj w 

h [MENU]% hi kj y x hM [MENU]  
 %[1](Mn ) [1]

vj ko" w








Eh[K L]% o" / tg j  
o" D3)

[K L]

v84o" w

?h+ 7.2.1Mn o" ?j k, @A? j  
k o"

<p>[ Mn j hM %[1](78D ), , - Mn</p>	<p>[1]</p>	<p>vMn w </p> <p>1 78D</p> <p>2 78</p> <p>3 D</p> <p>4 j ko"</p> <p>5 ` aMn</p>
<p>h[F3]( )%</p>	<p>[F3]</p>	<p>v78D w </p> <p>D StrName</p> <p>l m StrCode</p> <p>hi 0.000m</p> <p>NO 100.000m</p> <p>EO 100.000m</p> <p>ZO 100.000m</p> <p>` a l m</p>
<p>? q [F4]( )% h[F4]( )% M</p>	<p>[F1] [F4] #Xl m &lt; [ENT]</p>	<p>v w </p> <p>1</p> <p>2</p> <p>3</p> <p>4</p> <hr/> <p>v w </p> <p># 5</p> <p>l m Code</p> <p>N 36.001 m</p> <p>E 49.180 m</p> <p>Z 23.834 m</p> <p>mN l m</p> <hr/> <p>v w </p> <p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p>

v78D w 

E %j k ) [F2]( )%j k.  
# h[ENT]( )% j kD D [F4]  
1)4 Ju 78hi

h[F3]( )%

[F3]

v78	w	
		BsName
	m	Code
}		2.000m
NBS		0.000m
EBS		0.000m
ZBS		0.000m
NE/AZ	m	D

v w

? q

[F4]( )%  
h[F4]( )% M

[F1]

[F4]

#X| m

<

[ENT]



vD wu D #XI m  
<hi [23] O j kD 23  
O D } ? /; XEc<  
- j kD Ec23

vD w  
D




gD Mn q  
h[ESC]% 8%Mn 23


7.4.2

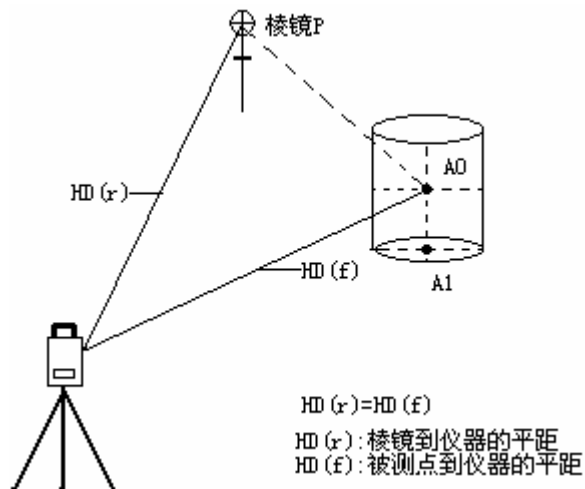
Mn 23 : S l m

%

vD w   
 D 8  
 l m Code  
 hi 0.000m  
 23 DEc<>

D 23 h[L]% g l mO  
 l m

l m ` a l m D  
 vD w 



JKs8 chi } A0D =>Ec?( ?} D

8 VD \_ A1? hi /}  
8 D A0? : hi (78} 0)

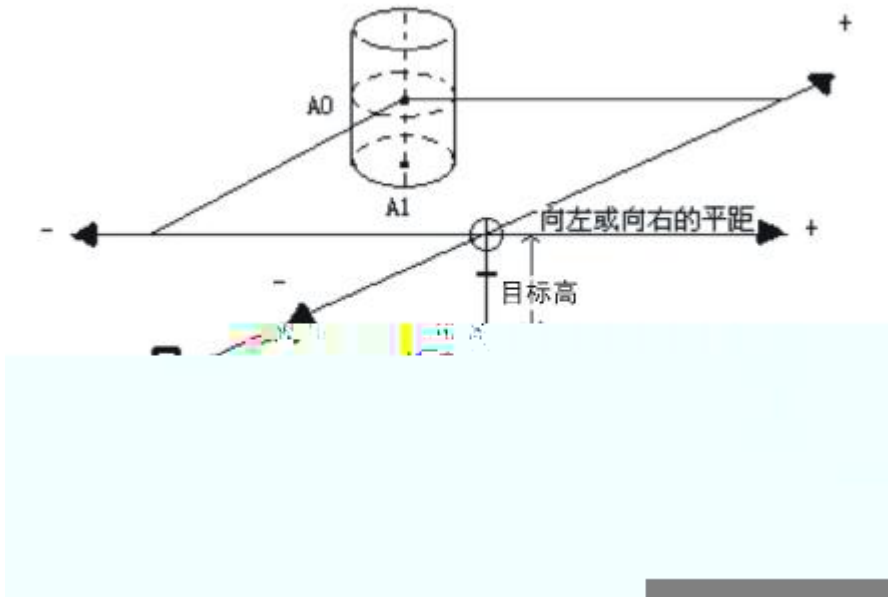
% , -

Mn D 23 h[3](D  
?

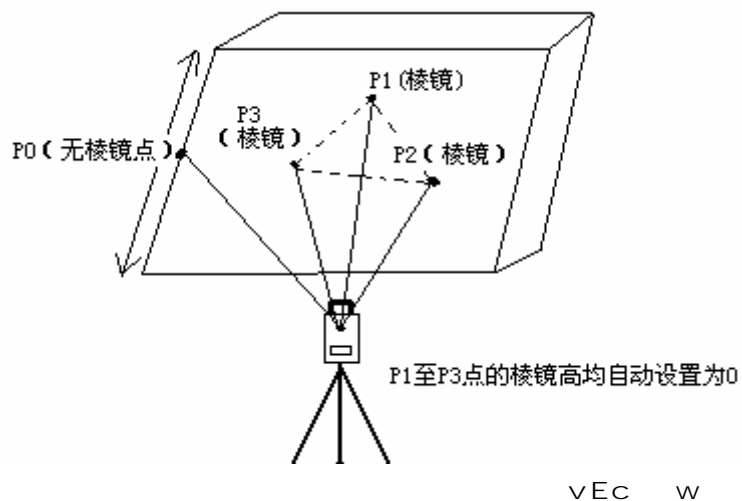
v; W w



r g=> X g } A0 , - A0 A0  
?



	%	, -
Mn D 23 h[3](D ?' (j h[F3]( )%)	[3] [F3]	<div style="border: 1px solid black; padding: 5px;">             vD w              # 5             l m SOUTH             } 1.000 m             23 DEc&lt;&gt;             ` a l m D           </div>
hM %[2](Ec )	[2]	<div style="border: 1px solid black; padding: 5px;">             v D w              1 ; W             2 Ec             3 &gt;             4           </div>
? M % / X/ < E h [F4]( )	E [F4]	<div style="border: 1px solid black; padding: 5px;">             vEc w              E 1.000m             E 2.000m           </div>



③ } ,h[F4](D )% A0  
[F4]

' ( D : SD ? D > ?Ec  
J { 23 D > ? t (P1 P2 P3) D>  
D P0 P hi \] , - ) > Ec<

<p>E 4 D D h[F4] (oQ) %</p>	<p>[F4]</p>	<table border="1"> <tr> <td>V &gt;</td> <td>w</td> <td></td> </tr> <tr> <td>P</td> <td></td> <td>1</td> </tr> <tr> <td>V</td> <td>99 55   36}</td> <td></td> </tr> <tr> <td>HR</td> <td>141 29   34}</td> <td></td> </tr> <tr> <td>AE:</td> <td>-----, ---m</td> <td></td> </tr> <tr> <td>&gt;E:</td> <td>-----, ---m</td> <td></td> </tr> <tr> <td>:</td> <td>-----, ---m</td> <td></td> </tr> <tr> <td></td> <td></td> <td>oQ</td> </tr> </table>	V >	w		P		1	V	99 55   36}		HR	141 29   34}		AE:	-----, ---m		>E:	-----, ---m		:	-----, ---m				oQ																								
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<p>rD 8%, - c - yc D h yc &lt;yt D</p>	<p>P2 [F1]  P3 [F1]</p>	<table border="1"> <tr> <td>V &gt;</td> <td>w</td> <td></td> </tr> <tr> <td>P</td> <td></td> <td>2</td> </tr> <tr> <td>V</td> <td>99 55   36}</td> <td></td> </tr> <tr> <td>HR</td> <td>141 29   34}</td> <td></td> </tr> <tr> <td>AE:</td> <td>0.556m</td> <td></td> </tr> <tr> <td>&gt;E:</td> <td>0.588m</td> <td></td> </tr> <tr> <td>:</td> <td>-0.534m</td> <td></td> </tr> <tr> <td>D</td> <td></td> <td></td> </tr> </table> <table border="1"> <tr> <td>V &gt;</td> <td>w</td> <td></td> </tr> <tr> <td>P</td> <td></td> <td>3</td> </tr> <tr> <td>V</td> <td>108 23   34}</td> <td></td> </tr> <tr> <td>HR</td> <td>141 29   34}</td> <td></td> </tr> <tr> <td>AE:</td> <td>0.378m</td> <td></td> </tr> <tr> <td>&gt;E:</td> <td>0.358m</td> <td></td> </tr> <tr> <td>:</td> <td>-0.119m</td> <td></td> </tr> <tr> <td>D</td> <td></td> <td></td> </tr> </table>	V >	w		P		2	V	99 55   36}		HR	141 29   34}		AE:	0.556m		>E:	0.588m		:	-0.534m		D			V >	w		P		3	V	108 23   34}		HR	141 29   34}		AE:	0.378m		>E:	0.358m		:	-0.119m		D		
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<p>g 8% &gt; S D Mn h[F4]( )% c", - - -D &gt; ? &gt; (P0) h[F4](D ) D3)</p>	<p>P0 [F4]</p>	<table border="1"> <tr> <td>V &gt;</td> <td>w</td> <td></td> </tr> <tr> <td>V</td> <td>93 49   37}</td> <td></td> </tr> <tr> <td>HR</td> <td>90 09   34}</td> <td></td> </tr> <tr> <td>AE:</td> <td>0.457m</td> <td></td> </tr> <tr> <td>&gt;E:</td> <td>0.456m</td> <td></td> </tr> <tr> <td>:</td> <td>-0.030m</td> <td></td> </tr> <tr> <td>mN</td> <td>Ec</td> <td>i</td> </tr> </table>	V >	w		V	93 49   37}		HR	90 09   34}		AE:	0.457m		>E:	0.456m		:	-0.030m		mN	Ec	i																											
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78D

+6.2D

? 78,

%

, -

Mn D 23 h[3](D  
?' (j h[F3]( )%

[3]  
[F3]

vD	w	
#		5
l	m	SOUTH
}		1.000 m
23		DEC<>
` a	l m	D



v

w



r D 8% , - c - (P3)?;

P3

W#D

[F4]

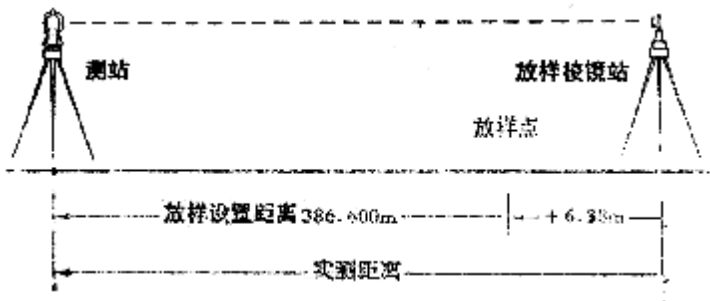
(P3) h[F4]( )%

		? #Xl m } l
Mn	1 4 2 5	Mn 45? 78 4 - )

8 V Mn B > 78 M78

## KPLM

r 23 ~ ' ( D r <) q ?. Mn78 r  
 ? Mn q ? \_%& ? Mn t  
 \_\] 6v hi q  
 NTS-380R h? q D Mn < Vr ? Mn Mn q  
 Mno" 5 q % o+# Xq 23,



### 8.1

r ?  
 1 j kr o" > D MnX Mn < r Mn? ~  
 2 78D  
 3 78 ;  
 4 p ? r 4 r

### 8.2

#### 8.2.1


\] ` 3

1)




$=R/(R+ )$   
 $R \_` > abgh$   
 $> = ?$   
 2){  
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 2)\_ ?Ec  
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**PW34DEXYZ [**

	%	, -																																	
h[O] vL 78w h[F3](EDM) vEDM 78w	. %23 vEDM 78w	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>vL 78w</td> <td style="text-align: right;">8 XY</td> <td style="text-align: right;"></td> </tr> <tr> <td>O</td> <td style="text-align: right;">0 XY</td> <td style="text-align: right;"></td> </tr> <tr> <td># \$</td> <td style="text-align: right;">2 XY</td> <td style="text-align: right;"></td> </tr> <tr> <td>(O' W</td> <td style="text-align: right;">100%</td> <td style="text-align: right;"></td> </tr> <tr> <td>tut</td> <td></td> <td></td> </tr> <tr> <td colspan="3" style="text-align: center;">/ EDM i</td> </tr> <tr> <td>vEDM 78w</td> <td></td> <td style="text-align: right;"></td> </tr> <tr> <td>EDM 23</td> <td style="text-align: right;">D XY</td> <td></td> </tr> <tr> <td>HI</td> <td style="text-align: right;">J KXY</td> <td></td> </tr> <tr> <td>J KLM</td> <td style="text-align: right;">0.0 mm</td> <td></td> </tr> <tr> <td>R!</td> <td style="text-align: right;">7 P1</td> <td></td> </tr> </table>	vL 78w	8 XY		O	0 XY		# \$	2 XY		(O' W	100%		tut			/ EDM i			vEDM 78w			EDM 23	D XY		HI	J KXY		J KLM	0.0 mm		R!	7 P1	
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EDM 23	D XY																																		
HI	J KXY																																		
J KLM	0.0 mm																																		
R!	7 P1																																		

h F2	78	8	7	<div style="border: 1px solid black; padding: 5px;"> v w   { 1.000000  &gt; 0.000m  1.000000  mN 8 7 </div>
D1) H +3.7 M ? , -9999 +9999m(-32805 +32805ft) { 0.990000 1.010000				

8.2.2  
r 23{ j k Mno" D Mnq pj ?  
Mno"  
r 23. h j ko"

	%	, -
[ vj wy x hM %[2](r )	[2]	<div style="border: 1px solid black; padding: 5px;"> vj w   1 Mn  2 r  3 q  4  5 78  6 C  P1 </div>
h[F1](~ )% D1)	[F1]	<div style="border: 1px solid black; padding: 5px;"> v84o" w   o" # south2  ~ </div>
?, - o" D2)		<div style="border: 1px solid black; padding: 5px;"> vj ko" w   SOUTH1.SCD [ ]  SOUTH2.SCD [ ]  P1 </div>

Eh[K] [L]% o" / tg j  
o"

[K] [L]

vj ko" w	
SOUTH.SCD	[ ]
SOUTH2.SCD	[ ]
ux	

vr w

rh[ENT](Nk)% o" j k c" mNr  
j

[ENT]

<p>: S D D1) h[F3]( )%~ . hi h[F4](7 )%8%D 78</p>	<p>[F3] [F4]</p>	<table border="1"> <tr> <td>v</td> <td>w</td> <td></td> </tr> <tr> <td>1</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> </tr> <tr> <td>vr</td> <td>D w</td> <td></td> </tr> <tr> <td>NO</td> <td></td> <td>50.000m</td> </tr> <tr> <td>E0</td> <td></td> <td>50.000m</td> </tr> <tr> <td>Z0</td> <td></td> <td>50.000m</td> </tr> <tr> <td>hi</td> <td></td> <td>1.450m</td> </tr> <tr> <td></td> <td></td> <td>7</td> </tr> </table>	v	w		1			2			3			4			vr	D w		NO		50.000m	E0		50.000m	Z0		50.000m	hi		1.450m			7
v	w																																		
1																																			
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hi		1.450m																																	
		7																																	
<p>D1) H 0+3.7 M ? ,</p>																																			

8.2

: S D1) h  
 [F3]( )%~ . 4 h [F1]  
 / NE/AZ1% : S /; 23/  
 - p- 1  
 h [F4](7 )% v wu  
 J Kr 8 hi JK  
 h [F4]/ 1

vr w   
 BSN 10.000m  
 BSE 10.000m  
 BSZ 99.000m

NE/AZ 7  
 v w   
 1  
 2  
 3  
 4


[F3][F4][ENT]  
 [F1][F4]  
 [F4]

vr w 

v78r w 

h[1]j k o" r vo" r wu [1]

g vr Zwu h[F3]/ 1, v

v r w 

N:	50.000m
E:	50.000m
Z:	99.500m
}	1.500m
	7

vr Zw






vo" r w	
}	1.500m
#	0
l m	south
N:	0.000m
E:	0.000m
Z:	0.000m
	7

v w

- 1
- 2
- 3
- 4

o" r 23 h[F3]( )% c" , -  
 qo" ? P j p r P h [F3]  
 [ENT]% r [ENT]

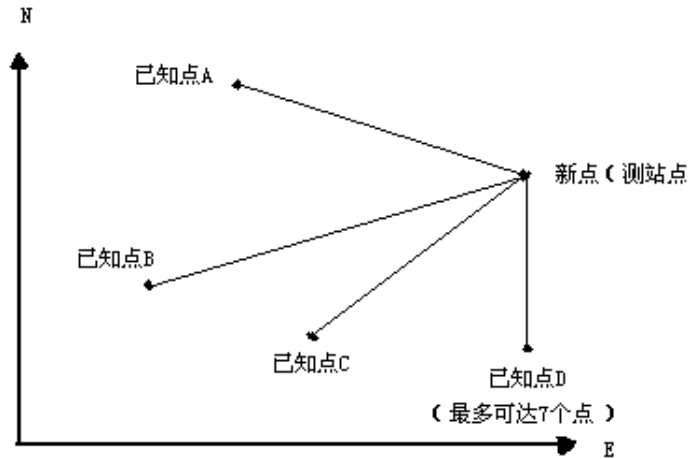
vo" r w





<p>j kq p ? o" D1)</p>	<p>j Uo"</p>	<p>v84o" w </p> <p>o" # south1</p> <p>&amp; ~</p> <hr/> <p>v w </p> <p># 6</p> <p>l m</p> <p>} 1.500m</p> <p>N: ----.---m</p> <p>E: ----.---m</p> <p>Z: ----.---m</p> <p>D l m</p>
<p>? #Xl m&lt;} } r gi</p>	<p>#Xl m &lt;} }</p>	<p>v w </p> <p># J1</p> <p>l m</p> <p>} 1.630m</p> <p>N: ----.---m</p> <p>E: ----.---m</p> <p>Z: ----.---m</p> <p>D l m</p>
<p>E h[F1](D )% D D 8 % h[F4]( ) #fg 1</p>	<p>[F1] [F4]</p>	<p>v w </p> <p># J1</p> <p>l m</p> <p>} 1.630m</p> <p>N: 99.098m</p> <p>E: 98.787m</p> <p>Z: 101.257m</p> <p>D l m</p> <hr/> <p>v w </p> <p># J2</p> <p>l m</p> <p>} 1.630m</p> <p>N: 99.098m</p> <p>E: 98.787m</p> <p>Z: 101.257m</p> <p>D l m</p>

D1) : S o" # h[F4]( )% o" 4 h[F]j k &Xh[F2]~ o"  
oy# q

### 8.4.2

s8hi d7 7 . ? < ?D Mn\]  
?#D  
DEcD D 2 57?.  
D; WD D 3 57?.  
D hdecs h] ( ; WD : #D3 .  
decs \])



	%	, -
r j hM %[5]( )	[5]	<div style="border: 1px solid black; padding: 5px;"> <p>vr w </p> <p>1 78D</p> <p>2 78</p> <p>3 78r</p> <p>4</p> <p>5</p> <hr/> <p>v w </p> <p>D <span style="float: right;">STN1</span></p> <p>l m</p> <p>hi <span style="float: right;">1.450m</span></p> <p>~ l m</p> </div>
<p>D #Xl m&lt;hi h[F4]( )</p> <p>h[F3]( )j k D # J</p> <p>D D 8% q</p>	<p>#</p> <p>[F4] [F3]</p>	<div style="border: 1px solid black; padding: 5px;"> <p>v w </p> <p>D <span style="float: right;">H1</span></p> <p>l m</p> <p>hi <span style="float: right;">1.200m</span></p> <p>~ l m</p> <hr/> <p>v w </p> <p style="text-align: right;">y</p> <p>N <span style="float: right;">0.000m</span></p> <p>E <span style="float: right;">0.000m</span></p> <p>Z <span style="float: right;">0.000m</span></p> <p>} <span style="float: right;">2.000m</span></p> <p style="text-align: right;">7</p> </div>




v	w	
	y	
N		9.169m
E		7.851m
Z		12.312m
}		1.200
		7

? y . ? h[F1]/ 1~  
 U. . h[F4]/ 7 1 [F1]  
 [F4]

v w

r, - Z (mm)

V	W	
SD(n) =	4 mm	
SD(e) =	-6 mm	
SD(z) =	1 mm	
		\]

gh[F4] (\] ) D h[F4]  
 (7 )X[F3] ( )

NP67OP>?

h[MENU]% hi j 23 J23 78)

9.1

S] (r8JK?} W :@ JK 7 } p ! 9 ?  
P D

1^ 2 E\_(h)#\$8\_` (ahh=1.3m)

<p>r } K , - JK } ? D2)</p>	<p>K</p>	<table border="1"> <tr> <td>v</td> <td>D</td> <td>w</td> <td></td> </tr> <tr> <td>}</td> <td></td> <td></td> <td>1.300m</td> </tr> <tr> <td>V :</td> <td>94</td> <td>59   57}</td> <td></td> </tr> <tr> <td>HR:</td> <td>85</td> <td>44   24}</td> <td></td> </tr> <tr> <td>&gt;E</td> <td></td> <td></td> <td>11.548m</td> </tr> <tr> <td></td> <td></td> <td></td> <td>1.300m</td> </tr> <tr> <td>D</td> <td></td> <td></td> <td>i</td> </tr> </table>	v	D	w		}			1.300m	V :	94	59   57}		HR:	85	44   24}		>E			11.548m				1.300m	D			i
v	D	w																												
}			1.300m																											
V :	94	59   57}																												
HR:	85	44   24}																												
>E			11.548m																											
			1.300m																											
D			i																											
<p>D1) H +3.7 M ? , D2)h[F2]( )%,mN E h[F3](&gt;E)% mN r</p>																														

2^ b2 E\_#\$8\_`

%

, -

hM %[2]j k } ? D ' (

[2]

v D w  
1 }  
2 }



v D W 

r } K , -JK } ?9:

Ec( ) D1) [F4]

[ ] MLM-1(A-B A-C)

MLM-2(A-B B-C) 23? D ) MLM-1 23 D

	%	, -
j hM %[2]( D )	[2]	
j kp ? o"	[F4]	
?hM %[1] j k A-B A-C? D ' (	[1]	
E JKA h[F1](D )% D1)	A [F1]	
rD 8% , - A h[F4]/7 1	[F4]	

g JKB h[F1](

%




, -

√A-B	A-Cw	
	y	
N :		0.000m
E :		0.000m
Z :		0.000m
}	:	1.500m
D		7



yE h F3]( )%~ A

[F3]

√ w

<p>j k p ? o"</p>		<p>v84o" w </p> <p>o" # <input type="text" value="south"/></p> <p>&amp; ~</p>														
<p>?hM %[1](78D )</p>	<p>[1]</p>	<p>vZ w </p> <p>1.78D</p> <p>2.y D</p>														
<p>E ~ D hi h[F4]</p> <p>/ 1 D 78 D1)</p>	<p>[F1]</p> <p>P</p> <p>[F4]</p>	<p>v78D w </p> <table border="0"> <tr> <td>D</td> <td>StnName</td> </tr> <tr> <td>l m</td> <td>StnCode</td> </tr> <tr> <td>hi</td> <td>1.450m</td> </tr> <tr> <td>NO</td> <td>100.000m</td> </tr> <tr> <td>E0</td> <td>100.000m</td> </tr> <tr> <td>Z0</td> <td>100.000m</td> </tr> <tr> <td>i</td> <td></td> </tr> </table>	D	StnName	l m	StnCode	hi	1.450m	NO	100.000m	E0	100.000m	Z0	100.000m	i	
D	StnName															
l m	StnCode															
hi	1.450m															
NO	100.000m															
E0	100.000m															
Z0	100.000m															
i																

2)[ dw| 67GHab Z DE  
[ ] Mno"

	<p>%</p>	<p>, -</p>
<p>j hM %[3](Z D )</p>	<p>[3]</p>	<p>v w </p> <p>1 D</p> <p>2 D</p> <p>3 Z D</p> <p>4</p> <p>5 : D</p> <p>6</p>
<p>h[ENT] [ESC]% j k o"</p> <p>[ h[ESC]%, o" Mn]</p>	<p>[ESC]</p>	<p>v84o" w </p> <p>o" # SOUTH</p> <p>&amp; ~</p>

?hM %[2](y D )

[2]

Z	D
1	78D
2	y D

E D h[F4] ( )%

[F4]

Z	D
	y 1
N	0.000 m
E	0.000 m
Z	0.000 m
Ni	

r }

k, - / D c" h[F4]( )% = [F4]  
>; 78 [ ] [ ]

<p>? D ' ( h[F3]( )~U 1? h[F4](\])</p>	<p>[F3] [F4]</p>	<table border="1"> <tr> <td>v</td> <td>D</td> <td>w</td> <td></td> </tr> <tr> <td>M</td> <td></td> <td></td> <td>0</td> </tr> <tr> <td></td> <td></td> <td></td> <td>0.000m^2</td> </tr> <tr> <td></td> <td></td> <td></td> <td>0.000m</td> </tr> <tr> <td></td> <td>N</td> <td></td> <td>0.000m</td> </tr> <tr> <td></td> <td>E</td> <td></td> <td>0.000m</td> </tr> <tr> <td></td> <td>Z</td> <td></td> <td>0.000m</td> </tr> <tr> <td>D</td> <td></td> <td></td> <td>\]</td> </tr> </table> <table border="1"> <tr> <td>v</td> <td>D</td> <td>w</td> <td></td> </tr> <tr> <td>M</td> <td></td> <td></td> <td>1</td> </tr> <tr> <td></td> <td></td> <td></td> <td>0.000m^2</td> </tr> <tr> <td></td> <td></td> <td></td> <td>0.000m</td> </tr> <tr> <td></td> <td>N</td> <td></td> <td>100.000m</td> </tr> <tr> <td></td> <td>E</td> <td></td> <td>100.000m</td> </tr> <tr> <td></td> <td>Z</td> <td></td> <td>100.000m</td> </tr> <tr> <td>D</td> <td></td> <td></td> <td>\]</td> </tr> </table>	v	D	w		M			0				0.000m^2				0.000m		N		0.000m		E		0.000m		Z		0.000m	D			\]	v	D	w		M			1				0.000m^2				0.000m		N		100.000m		E		100.000m		Z		100.000m	D			\]
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D			\]																																																															
<p>E ? ~U2 ! Sp ?7 Z? \] 4 ~U 3 ! Sp ?7 Z? \]</p>		<table border="1"> <tr> <td>v</td> <td>D</td> <td>w</td> <td></td> </tr> <tr> <td>M</td> <td></td> <td></td> <td>3</td> </tr> <tr> <td></td> <td></td> <td></td> <td>516.000m^2</td> </tr> <tr> <td></td> <td></td> <td></td> <td>123.637m</td> </tr> <tr> <td></td> <td>N</td> <td></td> <td>145.000m</td> </tr> <tr> <td></td> <td>E</td> <td></td> <td>134.000m</td> </tr> <tr> <td></td> <td>Z</td> <td></td> <td>102.000m</td> </tr> <tr> <td>D</td> <td></td> <td></td> <td>\]</td> </tr> </table>	v	D	w		M			3				516.000m^2				123.637m		N		145.000m		E		134.000m		Z		102.000m	D			\]																																
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D			\]																																																															
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9.4.2

	%	, -
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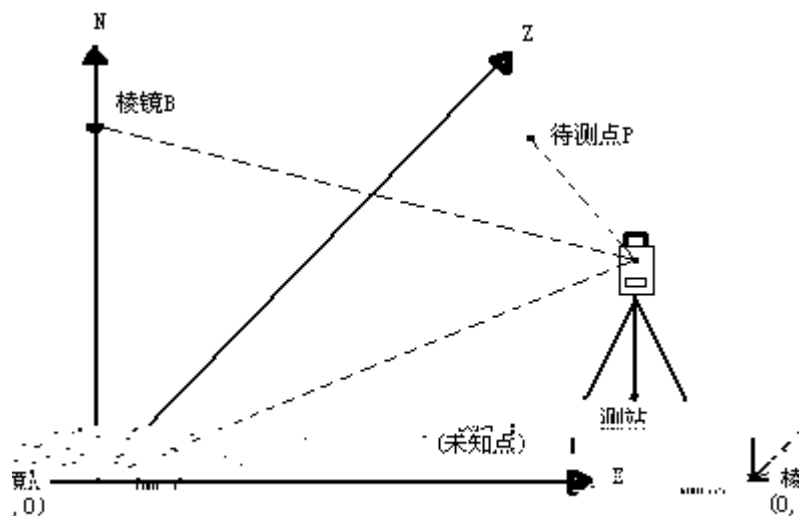


v

D



D ' ( y } 1 1  
h[F1](D )D1 [F1]



	%	, -
h[MENU]%, - k j 1/2, hM %[4],	[MENU] [4]	<pre> v j w 1 l Mn 2 l r 3 l q 4 l 5 l 78 6 l C P1                     </pre>
hM %[5]( : D )	[5]	<pre> v w 1 D 2 D 3 Z D 4 5 : D 6                     </pre>
?j UD p ?o"	[F4]	<pre> v 840.0 w o" # south1 &amp; ~                     </pre>

Eh hi <} JK P1( )  
h[F1]( D )% D

hi <}  
P1  
[F1]

v	:	w
		y
HR		0 00  00}
AE		0.000m
>E		0.000m
hi		1.450m
}		1.500m
D		

rD D D P1 ?  
; XAE<>E h[F4]( )%

[F4]

v	:	w
		y
HR		246 45  12}
AE		4.562m
>E		4.013
hi		1.450m
}		1.500m
D		

hi <}

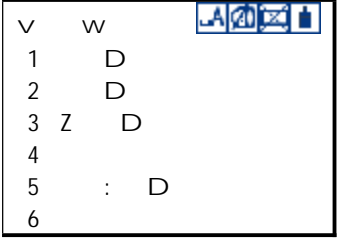
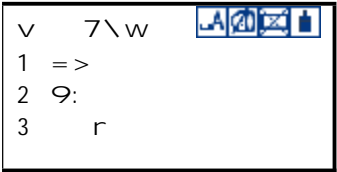


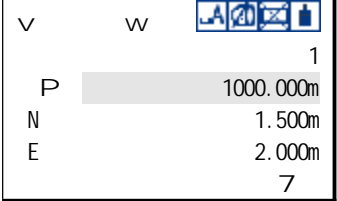
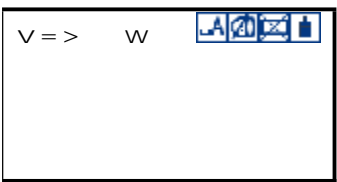
g D] D P2? ; XAE<>  
E h[F4]( )%

j h[F4](D ) , - D

h[F1]( )% JK h[F1](D ) [F4] [F1]

D m} D1)

v	:	w	
		D	
NO		4.315m	
EO:		5.110m	
ZO:		-11.035m	
		mN	
v	:	w	

<p>hM %[6]( )</p>	<p>[6]</p>	
<p>? + 7\, j j k+M %[1] =&gt; , , - &amp; , j k ?o" p ? &amp;, h[F4]( ) [ENT](Nk)%</p>	<p>[1] [F4]</p>	
<p>Ej k =&gt; o" h[ENT](Nk)%</p>	<p>[ENT]</p>	
<p>r, - =&gt; / -J \1h [F4]( )%</p>	<p>[F4]</p>	
<p>g ? PX&lt;E h[F4](7 )</p>	<p>PX NXE</p>	
<p>i J c" -, - D1) h[F4] ( )%</p>	<p>[F4]</p>	

k      c"      -	[F4]	<table border="1"> <tr> <td>v=&gt;</td> <td>w</td> <td></td> </tr> <tr> <td>P</td> <td></td> <td>1</td> </tr> <tr> <td>P</td> <td></td> <td>1000.000m</td> </tr> <tr> <td>:</td> <td></td> <td>0 00  00}</td> </tr> <tr> <td>:</td> <td></td> <td>a</td> </tr> </table>	v=>	w		P		1	P		1000.000m	:		0 00  00}	:		a
v=>	w																
P		1															
P		1000.000m															
:		0 00  00}															
:		a															
D1)h[F2]%      P? 3      Mn																	

k      c" , - ? P< P ? ; < G?' (%  
 VS : X a X <a X . ' ( j k ' (%  
 P? \*+ ? h[ ]% " \] ? P< ;  
 mN k c" J ? G h[ESC]% i k c" 4  
 ? B @ I j k ? : ( o"  
 ? !

Hf

G : : ; <Ec EcZ

( qM

% , -

v=> wc" h[F1]( : )%  
 : c"

[F1]

v=>	w	
P		1
P		1000.000m
:		0 00  00}
:		a

v

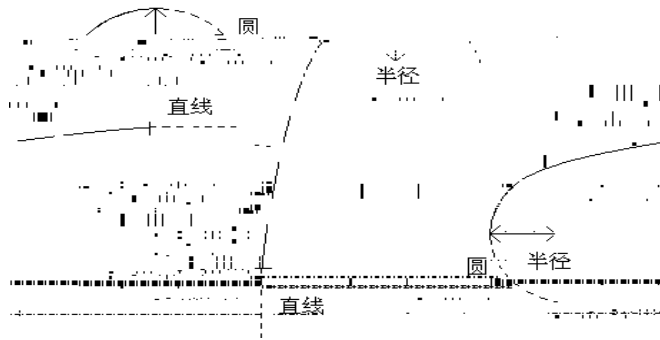
: ;

: ? ; < W h[F4]( )%

<

[F4]





h< k c" h[F3]( a)% <a <a deg  
ghCq? < gh?Cq? ( qM

%  
c" h[F3]( a)%  
<a c"

v=>	w	
P		3
P		1071.561m
:		91 17  38}
:		a

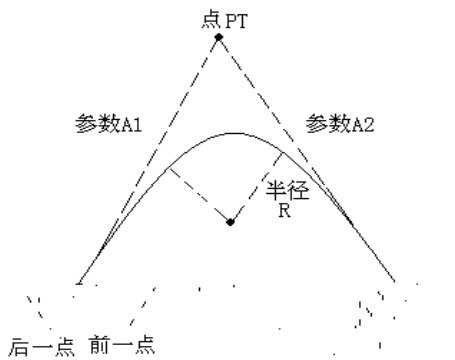
<a ?degh< h[F4]( de  
) ghX  
[F4]

v=>	w	
a		4
gh		0.000m
W		0.000m

v=> w

?mN k c"

? < a



c" h[F4]( )%      %      , -

c"      [F4]

=>	
P	100.000
	0 00  00}
	04
:	a

NXE Xgh < A1XA2

9.6.1.2

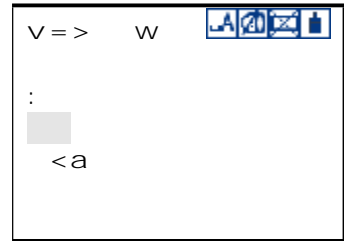
j => Mn B

%

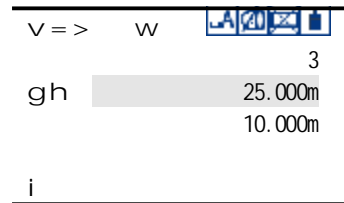
, -

j k l ?=> o" h[F1](  
)% c" , -j ?=> Mn

K L  
[F1]



hK L% l ?=> Mn c  
" , -j k? q ?=> Mn



P      1000                  1300                                  1800                                  2300  
           50                  70                                  60                                  90  
           0                  300                                  300                                  0

9: c" D h RU ?Mn h[ ]%  
 q ?Mn ? c" 4h[ESC]% q Mn3i 9: c

h[2] +9: , , -  
 & ,j k ?o" p ? &,[ENT]  
 % , -o" ,j k 9: o"  
 h[ENT]% D1)

% , -

v 7\w

1 =>

2 9:

3 r

---

vj ko" w

SOUTH .SVL 9:

P1

[2]  
 [F4]  
 [ENT]

v9: w

h[F4]( )% 9: c  
 " - PX < h[F4](  
 )%

[F4]  
 PX  
 <  
 [F4]

v9: w

P	1
P	0.000m
	0.000m
	0.000m

Mn

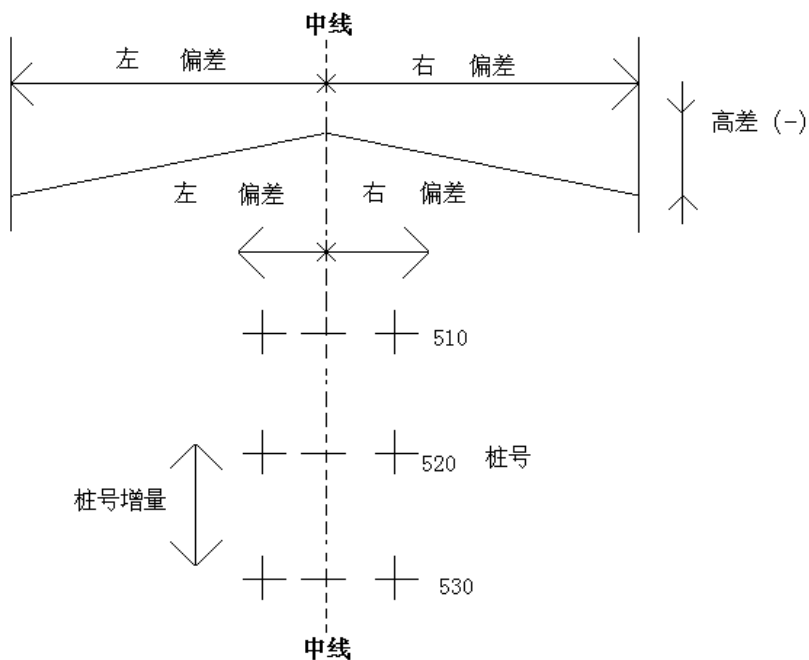
v9: w

?q 9: Mn 9: Mn

j Mn B <I => Mn

, -

hK L%% I ? Mn,  
[F2]( )%, I ?Mn  
, I ? Mn? P, h[F1]% K L  
/ 1 [F2]  
[F1]? Mn



- 9-1

9.6.2.1

{ j k o" V~ <q r Mn

		, -
$+ \quad 7 \setminus, j \quad j k + [3] \quad r ,$ $P + \quad r , j \quad j k + [1] j k o" ,$	[3]	<div style="border: 1px solid black; padding: 5px;"> <math display="block">v \quad 7 \setminus w</math> <math display="block">1 \quad =&gt;</math> <math display="block">2 \quad 9:</math> <math display="block">3 \quad r</math> </div>
	[1]	<div style="border: 1px solid black; padding: 5px;"> <math display="block">v \quad r \quad w</math> <math display="block">1 \quad j k o"</math> <math display="block">2 \quad 78D</math> <math display="block">3 \quad 78</math> <math display="block">4 \quad 78r</math> </div>
$, - j k o" FG \quad h[3] \% j k r$ $o" ) D1)$	[3]	<div style="border: 1px solid black; padding: 5px;"> <math display="block">j k o"</math> <math display="block">1 \quad j k =&gt; \quad o"</math> <math display="block">2 \quad j k 9: \quad o"</math> <math display="block">3 \quad j k r \quad o"</math> </div>

<p>?, -j kr o" c" : S ~ Mn?o" # _ q ~ o"</p>		<p>j kr o" o" # SOUTH  Ni ~ M</p>
<p>Eh[F2](~ )% , - &amp; ,j k ? o" p ? &amp;,h[F4] [ENT]% , - Mno" } D2) D3)</p>	<p>[F2] [F4]</p>	<p>SOUTH.SCD [ ] S0001 [DIR] DATA.SCD [ ]  i ux</p>
<p>rh[K] [L]% o" / / tg j k o"</p>	<p>[K] [L]</p>	<p>SOUTH.SCD [ ] S0001 [DIR] DATA.SCD [ ]  i ux</p>
<p>gh[F4]( )% o" j k h[ESC]% mN r j</p>	<p>[F4]</p>	<p>r 1 j ko" 2 78D 3 78 4 78r</p>
<p>D1)h[1] [2]% ? j k ?=&gt; o" &lt;9: o" D2) :S o" # D3)h[F4](ux)% , -ycx' ( , &lt;l o"</p>		

9.6.2.2

D ? 78 %& \_hi qTU? 3 %& h+ PX  
, ?Z3 ? 3\_ q TU? NXEXZ Z3  
%

+ 7\,j j k+ [3] r , [3]  
P + r ,j j k+[2] 78D  
, [2]

v78D w



c. [redacted] 78D (v7) Tj / F4+2

78D c"

+ , j j k+[3] r , P  
+ r , j j k+[2] 78D ,

[3]

v	7\w	
1	=>	
2	9:	
3	r	

[2]


v	r w	
1	j ko"	
2	78D	
3	78	
4	78r	


[F1]

78D c" h[F1]( )



v	78D w	
P	<div style="background-color: #cccccc; width: 100px; height: 10px;"></div>	0.000 m
		0.000 m
hi		0.000 m

+ , j j k+[3] r , P [3]  
+ r , j j k+[3] 78 , [3]

v 7\w   
1 =>  
2 9:  
3 r

v r w   
1 j ko"  
2 78D  
3 78  
4 78r

78 c" h [F1](NE/AZ) [F3]

v78 w   
P  0.000 m  
0.000 m  
} 1.500 m  
NE/AZ

v78 w 

?h[F2](; W)

2)y[ DEe] N

78 ? D ?78 %& \_hi qTU? 3  
%& h+ PX , ?Z3 ? 3\_ q TU? NXEXZ Z  
3

v 7\w

+ , j j k+[3] r , P [3]  
+ r , j j k+[3] 78 ,

[3]

78 c" ~ 3 A  
 ? PX <} h[F4](  
 ) hi n ? P< \] ?  
 h[F3]( ) B h[F1](NE/AZ)  
 u : S  
 h[F3]( )~ . h[F4](  
 )

v78 w 

P 0.000 m  
 0.000 m  
 }

NE/AZ

v78 w 

1000.000  
 l m 0.000  
 NBS 1.500 m  
 EBS 2.000 m  
 ZBS 0.000 m

` a l m

v78 w 

P 0.000 m  
 0.000 m  
 }

NE/AZ

v78 w 

NBS 0.0

9.6.2.4

78 D <

r S

%

+ r ,j j k+[4] 78r ,

[4]

v	r	w	
1	j	ko"	
2	78D		
3	78		
4	78r		

r Mnc"

PX P

) ?>E>E

q

E

i k


vr Zw



ghi 4 r ?\]  
HR r ?=>; \] Z  
HD hi r ?=>Ec\] Z



<p>r P&lt; c" h[F2]( W)</p>	<p>[F2]</p>	<table border="1"> <tr> <td>v r w</td> <td></td> </tr> <tr> <td>P</td> <td>1000.000m</td> </tr> <tr> <td></td> <td>0.000 m</td> </tr> <tr> <td></td> <td>0.000 m</td> </tr> <tr> <td>}</td> <td>0.000 m</td> </tr> <tr> <td>l W r</td> <td></td> </tr> </table>	v r w		P	1000.000m		0.000 m		0.000 m	}	0.000 m	l W r	
v r w														
P	1000.000m													
	0.000 m													
	0.000 m													
}	0.000 m													
l W r														
<p>A A h[F4]( )% q Mn</p>	<p>[F4]</p>	<table border="1"> <tr> <td>vA r w</td> <td></td> </tr> <tr> <td></td> <td>0.000m</td> </tr> <tr> <td></td> <td>0.000m</td> </tr> <tr> <td></td> <td>0.000m</td> </tr> <tr> <td></td> <td>0.000m</td> </tr> </table>	vA r w			0.000m		0.000m		0.000m		0.000m		
vA r w														
	0.000m													
	0.000m													
	0.000m													
	0.000m													
<p>? ' (%j k[F2]( ) [F3]( )</p>	<p>[F2] [F3]</p>	<table border="1"> <tr> <td>vA r w</td> <td></td> </tr> <tr> <td></td> <td>2.150m</td> </tr> <tr> <td></td> <td>0.000m</td> </tr> <tr> <td></td> <td>2.150m</td> </tr> <tr> <td></td> <td>0.000m</td> </tr> </table>	vA r w			2.150m		0.000m		2.150m		0.000m		
vA r w														
	2.150m													
	0.000m													
	2.150m													
	0.000m													
<p>E A r c"</p>		<table border="1"> <tr> <td>vA r w</td> <td></td> </tr> <tr> <td></td> <td>----.---m</td> </tr> <tr> <td></td> <td>----.---m</td> </tr> <tr> <td>&gt;E</td> <td>----.---m</td> </tr> <tr> <td>HR</td> <td>180 13  25}</td> </tr> <tr> <td>23</td> <td>D</td> </tr> </table>	vA r w			----.---m		----.---m	>E	----.---m	HR	180 13  25}	23	D
vA r w														
	----.---m													
	----.---m													
>E	----.---m													
HR	180 13  25}													
23	D													
<p>r w}A U? h[F4](D )% 4 A r _ ?Mn j k ?A , 7 D =&gt; y ,\} U? 4 , - _D \} ?</p>	<p>[F4]</p>	<table border="1"> <tr> <td>vA r w</td> <td></td> </tr> <tr> <td>/</td> <td>3.398 m</td> </tr> <tr> <td>/</td> <td>3.321 m</td> </tr> <tr> <td>&gt;E</td> <td>2.546 m</td> </tr> <tr> <td>HR</td> <td>180 13  25}</td> </tr> <tr> <td>23</td> <td>D</td> </tr> </table>	vA r w		/	3.398 m	/	3.321 m	>E	2.546 m	HR	180 13  25}	23	D
vA r w														
/	3.398 m													
/	3.321 m													
>E	2.546 m													
HR	180 13  25}													
23	D													
<p>gh c" - gJK h[F4](D ) : / / ZS} 0 - r</p>	<p>gJK [F4]</p>	<table border="1"> <tr> <td>vA r w</td> <td></td> </tr> <tr> <td>/</td> <td>0.000 m</td> </tr> <tr> <td>/</td> <td>0.001 m</td> </tr> <tr> <td>&gt;E</td> <td>1.546 m</td> </tr> <tr> <td>HR</td> <td>140 13  25}</td> </tr> <tr> <td>23</td> <td>D</td> </tr> </table>	vA r w		/	0.000 m	/	0.001 m	>E	1.546 m	HR	140 13  25}	23	D
vA r w														
/	0.000 m													
/	0.001 m													
>E	1.546 m													
HR	140 13  25}													
23	D													

<p>i h[ESC]mNA j kc" _y? 4 r</p>		<p>vA r w </p> <p>2.150m 0.000m 2.150m 0.000m</p>
--------------------------------------	--	--

- 1) \_ ! S \]
- 2) \] ( , -

### QPRG34

M78 D 23 78 kj u hM %[5] M78  
vA r w

1h( = 34 : 1m=3. 2803333333333ft

j	j k	
; W	1 W(360] 2 (400G) 3 (6400M)	j k D; DEG/GON/MIL(W/ / )
Ec	1 2 3	j k DE m / ft / ft+in ( / / )
VW<RY	1 VW ]C / ]F 2 RY hPa /mmHg/inHg	j k VW ]C / ]F j k RY hPa /mmHg/inHg

2hrs s 34

j	j k	
FG	1 2	j k M : 1m=3. 280839895013123ft : 1m=3. 2803333333333ft

3. DE 34

j	j k	
, - U	1 NEZ 2 ENZ	, - U N/E/Z E/N/Z

4. - t 34

j	j k	
9; 23	1 2 =>	j k 9: ; TM_ / y => / y \M
DE	1. 5 2. 4	NO* P

h% 1. 5  
 2. 4 h% ? 45  
 1 ; WD  
 4623 2 EcD  
 3

1. 5  
 22c ((45) Tj-215.76 -37.56 TD -0.84 Tc (4) Tj-1.f Tc  
<sup>h3 TDMn</sup>

### 5. GHI J 34

### 6. uv 34

j k n j 78

### Q\$PSTUV>?

J 23 q }




1) o" 5Bo" #/ o" ? Mn/ / /l o"

2) Mn D Mn/ Mn l m Mn/S Mn l m Mn  
 =>/9: 78 M

3) o" SD ? o" \_ & SD



4) o" \_ & SD ? o" SD





<p>Eh[F1]( )%, . pj &amp;? \ , &lt; &amp;27</p>	<p>[F1]</p>	<p>v &amp; w  &amp;l P A &amp;FG _ &amp; o" FAT12 . \ 0.06M  \ 31.86M &amp; 31.92M i</p>
<p>④ h[F2]( 3 )%, pj &amp; ?p Mn 3 h[F3]% 3 c" , -+ 3 , h % mN &amp; D2)</p>	<p>[F2] [F3]</p>	<p>v84 &amp;w  3 &amp; v84 &amp;w  3</p>
<p>D1)h[F4]( ) [ENT](Nk)% 84pj ? &amp; o" SD ?o" ( USD Mn D2)h[F1](UI )% mN &amp;</p>		

11.1.2 !

q o"

<p>[MENU]% hi vj wu h[3](q )% , -q j</p>	<p>% [MENU] [3]</p>	<p>vq w  1. o" 2. Mn 3. o" 4. o"</p>
<p>h[1](o" ) % , c" , - o" FG h[1] [6]% j k o" ?FG h[2] o" h % j k o" u</p>	<p>[1] [2]</p>	<p>vo" w  1. D o" 2. o" 3. l mo" 4. =&gt; o" 5. 9: o" 6. p o"</p>

[ o" h[F4](P1)% , -ycx' (	[F4]	vj ko" w 
		vj\k o" SOUTH.SMD [D ] SOUTH2 [DIR] SOUTH3.SMD [D ] B# P2
? o" u , [◀] [▶]% D o" / o" /l mo" /= > /9: /o o" ?7 P u %& o" # j k h[F4]%	[F4]	v o" w  F G D o" <> o" # NewFile mN
D1) H +3.7 M ? , D2) ( . ?o" # D3)h[ESC]% mNo"		

11.1.3

l q o" #

%

vj ko" w 

[o" j k h[K] [L]% j k B# [K] [L]  
 ?o"

?h[F2](B#)%

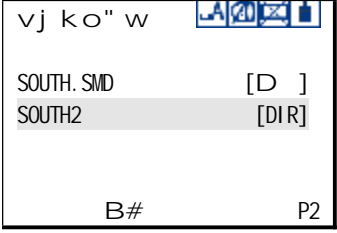
[F2]

v K#w	
o" #: <input type="text" value="S0010"/>	
Ni	

E o" # h[F4]( )%, Bo" #  
' D1)nD3)

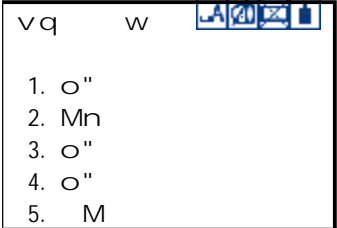
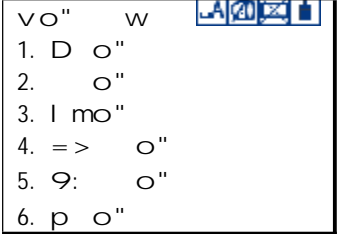
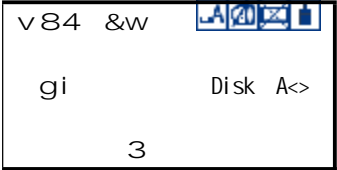
[F4]

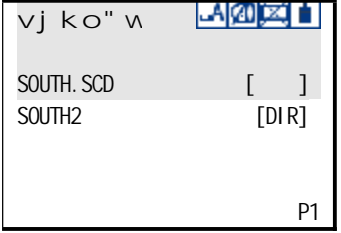
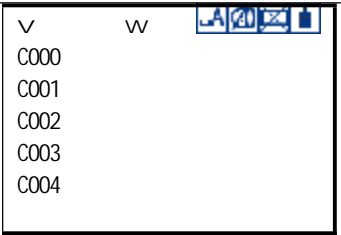
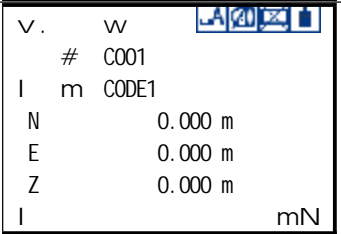
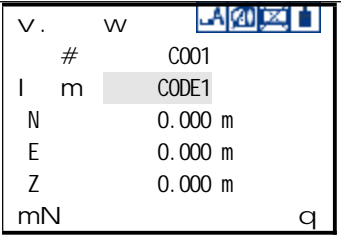
vj ko" w	
SOUTH.SMD	[D ]
SOUTH2	[DIR]
S0010.SMD	[D ]
B#	P2

E o" h[F3]( )%	[F3]	
D1)h[F1](UI )% mNo"		

11.1.5 \$ % &

J 23 D Mn? # I m<h X B #DZ  
B

h [MENU]% hi kj 1/2 23 h [3](q )% , - q j	[MENU] [3]	
h[1](o" )%,c" , - o" FG h[1] [6]% j k o" ?FG h[2] o"	[1] [2]	
?? & D1) Disk:A - _ & Disk:B - SD p ? g &( V & A?\ K , - C/DF & %= oo" #< o} ) [◀] [▶]% Disk A< Disk B?	[F4]	

<p>Eh[K] [L]j k l ? o" , h [ENT](Nk)%</p>	<p>[ENT]</p>	
<p>r j k l ? Mn h [F1]( )% D1)</p>	<p>[F1]</p>	
<p>gc" , - pj ? Mn h[F1](l )%</p>	<p>[F1]</p>	
<p>i ? l ? #Xl m&lt; h [F2](~ )%, ~ q ?l m h[F4]( q% l D3)</p>	<p>[F4]</p>	
<p>D1)h[F2]( )%, #? 3 Mn h[F3]( )% pj ? Mn h[F4]( )%, ? Mn D2)h[K] [L]% ? Mn D3) H +3.7 M ,</p>		

11.2 '

J 23 \_ & ?o" D (>J

	%	, -
--	---	-----

vq w







[MENU] % hi vj wu h[3](q [MENU]  
)% , - q j [3]

### 11.2.1: ewxy/z { X?

J 78: ( <S Mn23 78, - S / ? Mn  
? #X l m? U J (78~ j O ? Mn  
% , -

+11.2o" , yE ,h[4](f )%,  
f Mn?S 3 [4]

vMn	3w				
1.	300	3			
2.	660	3			
3.	f	3			
4.	f	378			

v U w 

, - S U j h[K] [L]%  
D ?M %[1] [5]j k 78?j O  
h [X]X[+]%,S U #/N/E/Z/  
l m

[vmenuw% j u h[3](q )%  
vq wu S WH

### 11.4 )

: S q ?Mno" \] 6 \_\] 6 Mno" <l  
 m Mn 7\?=> Mn<9: Mn: Sv hi q 5 =>  
 <9: Mn? 3H o A  
 NTS-380R h t Mn 3? NTS300 3XNTS660 3<f  
 3 5 n f j k 5 Mn 3? \*+H o A  
 Mn ?j

vMn w	
1. RS232	23
2. USB	23
3. qi	23

Mn { t ! S C 6) h?  
 M78 ( Mn t Gh  
 i A q SMn ? (

#### 11.4.1 \*

RS232 23 78' b 4800

q j h[2](Mn )%	[2]	<table border="1"> <tr> <td>vq w</td> <td></td> </tr> <tr> <td>1. o"</td> <td></td> </tr> <tr> <td>2. Mn</td> <td></td> </tr> <tr> <td>3. o"</td> <td></td> </tr> <tr> <td>4. o"</td> <td></td> </tr> <tr> <td>5. M</td> <td></td> </tr> </table>	vq w		1. o"		2. Mn		3. o"		4. o"		5. M	
vq w														
1. o"														
2. Mn														
3. o"														
4. o"														
5. M														
h[1](RS232 23)%	[1]	<table border="1"> <tr> <td>vMn w</td> <td></td> </tr> <tr> <td>1. RS232</td> <td>23</td> </tr> <tr> <td>2. USB</td> <td>23</td> </tr> <tr> <td>3. qi</td> <td>23</td> </tr> </table>	vMn w		1. RS232	23	2. USB	23	3. qi	23				
vMn w														
1. RS232	23													
2. USB	23													
3. qi	23													
?h[3]( M)%	[3]	<table border="1"> <tr> <td>v a w</td> <td></td> </tr> <tr> <td>1. Mn</td> <td></td> </tr> <tr> <td>2. S Mn</td> <td></td> </tr> <tr> <td>3. M</td> <td></td> </tr> </table>	v a w		1. Mn		2. S Mn		3. M					
v a w														
1. Mn														
2. S Mn														
3. M														

<p>Eh[L]%/ gO ' bj O h [←] [→],j p M h[F4](78)% D1) D2)</p>	<p>[L] [←] [→] [F4]</p>	<p>v Mw Ack/Nak ' b: 4800 b/s 8  78</p>
<p>r c" mNRS232 23j</p>		<p>v a w [A][Q][E][I] 1. Mn 2. S Mn 3. M</p>
<p>D1)h[←] M M e4h[→] M M Q UI 78 h[ESC]% D2) Ju 78 &lt; h[L] [K]% p B?j O h[←] [→],j p M</p>		

USB 23 78 None

Mn j h[2](USB 23)% [2]

vMn w [A][Q][E][I]
1. RS232 23
2. USB 23
3. qi 23

h[3]

q j h[2](Mn )% [2]

vq w

1. o"
2. Mn
3. o"
4. o"
5. M

, - Mn ?t 23 RS232 23X  
USB 23<q i 23 [1]  
h[1]%j k(RS232 23)

vMn w

1. RS232 23
2. USB 23
3. qi 23

?h[1]%j k( Mn),c" MnF  
G  
h[2]%( Mn)

11.4.3 -

Mno" <l mMn [ \ ] 6v hi q  
USB 23S Mno"

q j h[2](Mn )% [2]



, - Mn

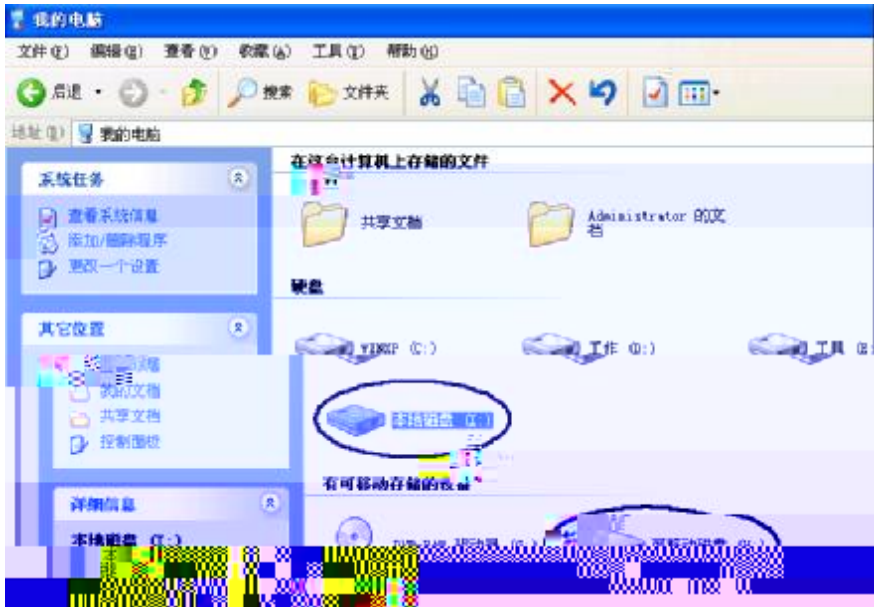
<p>g S Mn8% ,c" , -+S Mn8%!, mN S Mnj D3)</p>		<p>S Mn [USB] o" A: SOUTH.SCD 102 oQ</p>
<p>D1) +3.7 M ? , D2)h[F1]f S 3?78 o+11.2.1f S / 3, D3)UI S Mn h[F4](oQ)%</p>		

#### 11.4.4 .

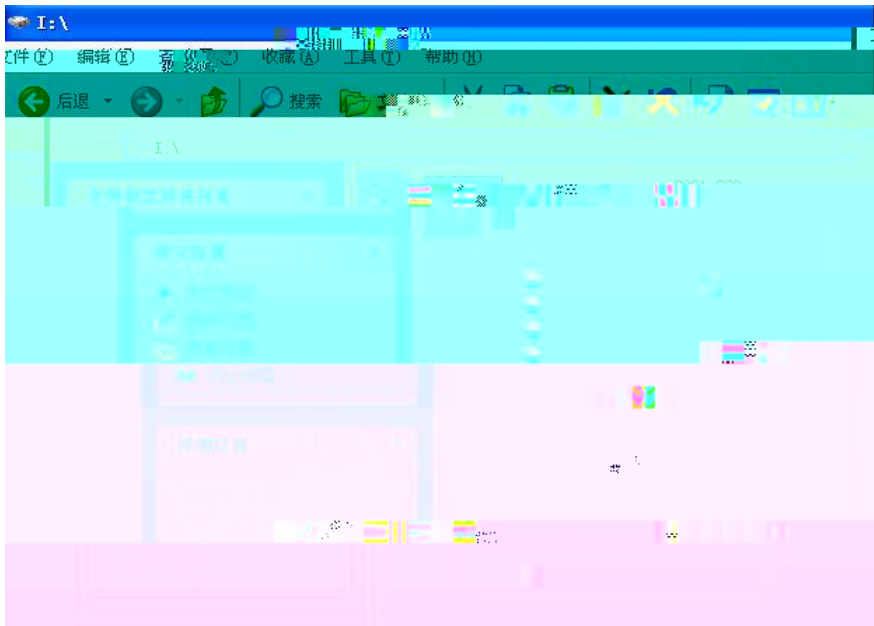
t >J <l o" %

vq w 

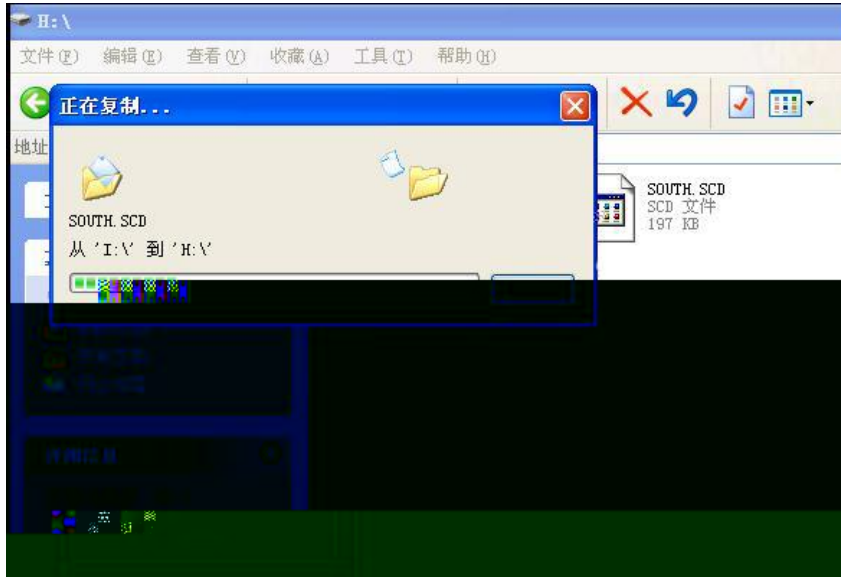
q j h[2](Mn )% [2]



r 4 \_ &l g &H ( \_ &l) j l ?o" Mn  
?j j k



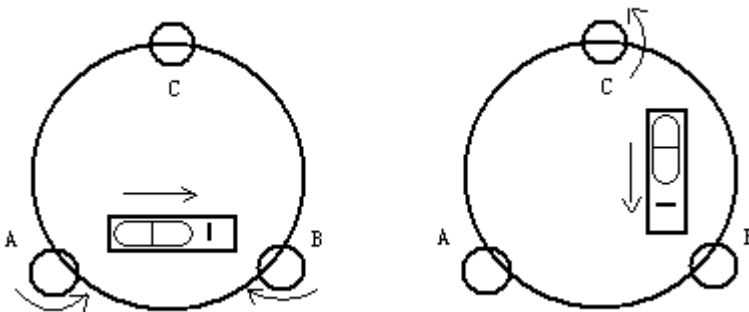
g4 g &H 84 & ?j j k+ , , - p-  
o" ?j o" <l o" # mNMn j , hi  
h[F4](i )%, >4St ! S



## QOPWXYZ [

hi j C 2 ? ) C hi C  
! 8 J hi DK  
hi %? ) C V W

### 12.1 /



### UWX

o 3.2X+ = i • >hi ,

### UZ [

X = i ? R\* cS ) = i > ? ~•  
 R\*/ } g? c ) \*? g CQ g= i C \$( = i )  
 ~• R\* C  
 X hi 180 R\* C VR\* N C ( ) : R  
 \* C  
 ! X hi 90 yt ~• R\* C  
 ) C : ! R / R\* C Q

**12.2**

**UWX**

= i C = i R\* C C

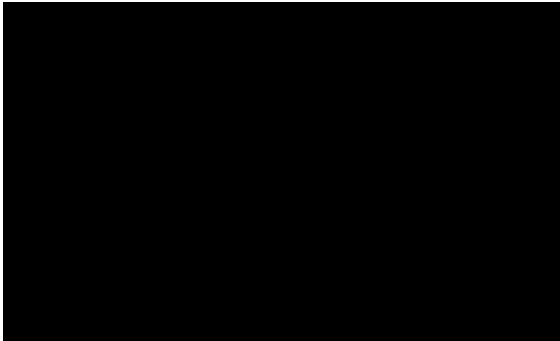
**UZ[**

R\* C CQ "; # ~• R\* ? C \$ R\* C C  
 4R\* / ? C \$( ) P • ` /? \* C \$ R  
 \* C R\* C t C \$?` \$

**12.3 012**

**UWX**

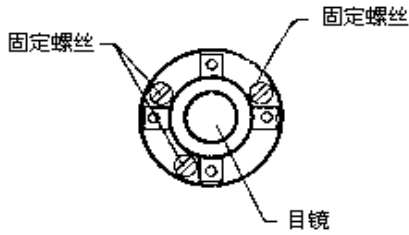
X• >hi { | K j } % # \$ % =>  
 <9: g y  
 X g{ | K9: g y % g &? (%| )  
 ! X % # \$? \$ g %| N \$ ? # \$ @A C  
 - %| c \$ # \$@A C



**UZ[**

X{ U { | K} K) ~Y y ? z v

! X ' \_ ` \$ + C8V  
( X vsvN



12.4 3 43 (56)

UWX

1XEchi Q< 100 ?| 78} % } 9:; d3 • >hi  
84t

2X & 8 { | K } % TU=>;  
=>; ) \* 10 13| 10}

3X 49: => g y { | K ! & % ` =  
> 9: g y TU=>;  
=>; +\* 190 13| 40}

( X , \* ) - (+d180 ) \* - 30} . d20} C

UZ[

Aht C

	%	, -
<p>• &gt;hi 46 h[MENU]% h[6] Cu</p>	<p>[MENU] [6]</p>	
<p>hM %[6]( C) j k[2] ( C)</p>	<p>[1] [2]</p>	



v w



? CK(& ) 8 } h[F4](D [F4]  
)%

3Xw /[[ g X 1044 ? E , -? :; [D e-  
l +5, \*+ - hi @A. Q ! | 6 & i?7\  
H/ hi 6 :; xu 8 H I # -  
& i CL


U x20 TD(àH) Tj/F4+6 10.44 &y Tj/F4+0 TD(T20 TD ( () Tj/F4+5 10.44 Tf 19.20 TD/F4+1 10.4445 10.44

<p>E {   K / K (&amp; ) 8 } h[F4](D %)%</p>	<p>[F4]</p>	<p>v w  yc /K &amp; V 96 03  15} HR 45 45  49} I; 0 00  00 } 7 8 D</p>
<p>rc" - l; \] h7 % c " fgmN Cj</p>		<p>v j w  1. C 2. C 3. 78 4. , -</p>

1X D (8; ) N C(  
78)?t ? } h 78  
2XCH N j  
8 78 p, - ? : ; C < C?Z : V78 W (

**12.7 43><: ; ?**

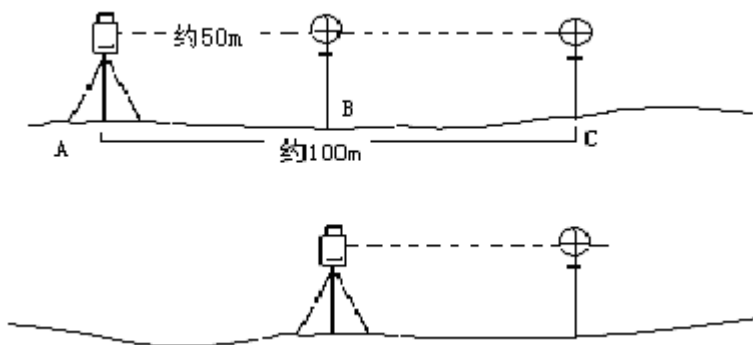
[ : ?; W : ( #D7, hi W?} 1  
? @ 3 C  
? e JK } > J R J C j  
k Echi d|? QQ hi? O? \_~ e

% , -   
vj w  
1l Mn  
2l r  
3l q  
4l UV  
• >hi 46 h[MENU]% h[6] [MENU]  
Cu [6]

v j w 

hM %[6]( C) j k [3] ( 7 [1]  
8) [2]





UZ[

C2 G hi LMK S} 7. 5 V@ C hi LM  
hE LMKZ 78

8 hi ? \$ / 2 %X=X, t : = \_ \$  
1?

8= JK ) hi G D W? % J d =  
t <~ ( ?yz tF3JK! Si yz t <y  
z = g JK<hi ?yz !

**12.10 3 + 3**

] (



UWX

1X Ehi 50 s8HI JK  
2X { | K# \$ HI JK ] ( i  
3X84t DE23h[AE]( [

9: g y t DEO G \*+9' ? < ?K  
DE? I tO ?  
4X { |K# \$ ) I tO y  
UZ[  
{ |K# \$ ) I tO Q @ ! H C

### 12.11 C

) { |K ? 1 JKDE?F O% [ { |K ? Vhi .  
F O% ) ! I gXQQ?RV ( O%)  
8 DE O%? / ( DE  
\* +h  
: O L 67?  
- . h  
: O% O ?HI O ( ] D 8V  
UW\h  
fehi V?HI G w/hi r 5 <20 hi 8 ) g  
O' ( { |K# \$ e HI G P F O ? 8 J12  
{ |K ? Oi { |K. o O \_{ |K HI GD #  
\$F O ) HI G# ? c W  
V O ) # 27~• Sp W V ? 8) #  
c6 ( ! H~•  
8 V O fHI ] ' : d 1

### 12.12 DEF

V g ! ~•yz ~• ? C \$ • ` \$  
?Y` \$W Q

### 12.13 G HI

HI JKyz! Si  
yz! Si ? = i <O i C o 12.1 <  
12.7?27  
9:  
12.K - p- , +O, ] M , , • g ~

% L<M O% # ?N<O ~•L,M? W = i R\* C  
# |?% s88>hi # \$ , ] => g y  
P{ |K !> =>\$ } /I% L > g  
# \$ J , X>~ # \$

hi s8 ( # ?= ? J /I% M  
?> , ?# \$  
C hi %=~ ? . 9: J ? = i ?R\* c  
~• = i ?t BC \$ R\* C ?27  
: ~ / 9: R\* C Q

**Q5P\ ] RG**

**AB67(6**

FG	NTS-382/5R4/68/10/12
Q'	F O O
EDM FG	0.650 0.690 Rm
de, -	0.1mm
OOS	23 < 7T 14T /20m
	23 < 10T 20T /50m
R! C	Mf gBC9 i f gBC
QR^O<_` abBC	Mf gBC
JKLM C	Mf gBC
Ec	9 / / - j
M , -	dQ 99999999.999 m de 0.1 mm
> D M	j U2n5 ?> Z

**9K=**

@/ | } mNTS-382/5R4u ~

23		
DE 3	DE	D
JK D	d(2O2 10 <sup>-6</sup> D)44	20.3s
JK•	d(5O2 10 <sup>-6</sup> D)44	20.1s
HI G	d(2O2 10 <sup>-6</sup> D)44	20.3s
23{ } U :	90%HI b)	
DE 3 D	DE	D
D <200m	d(3O2 10 <sup>-6</sup> D)44	J 0.3-3/ -3
	D <200m	d(5O2 10 <sup>-6</sup> D

23{}	U	:	90%HI b)	
DE 3	D		DE	D
D	<300m		d(302 10 <sup>-6</sup> D)4.4	J 0.3-3 / dQe 10 /
D	>300m		d(502 10 <sup>-6</sup> D)4.4	dQe 10 /
•	<300m		d(1002 10 <sup>-6</sup> D)4.4	J 0.3-3 / dQe 10 /
•	>300m		d(1002 10 <sup>-6</sup> D)4.4	dQe 10 /

@/ | } mNTS-382/5Rs u ~

23

DE 3		DE	D
JK D		d(202 10 <sup>-6</sup> D)4.4	20.3s
JK•		d(502 10 <sup>-6</sup> D)4.4	20.1s
HI G		d(202 10 <sup>-6</sup> D)4.4	20.3s

23{}	U	:	90%HI b)	
DE 3	D		DE	D
D	<400m		d(302 10 <sup>-6</sup> D)4.4	J 0.3-3 / dQe 10 /
D	>400m		d(502 10 <sup>-6</sup> D)4.4	dQe 10 /
•	<400m		d(302 10 <sup>-6</sup> D)4.4	J 0.3-3 / dQe 10 /

4 0 0 m ; 0 . 4 8 10 / T c ( 4 0 0 m ) T j \$ / -  
T1368 -4.68 T/F1 6.12 Tf19.92 4.32 TD (6) Tj/F1 10.44 Tf-14.28 -4.68 TD 0 Tc (10) Tj/F12 6.12 Tf11.04 4.68 TD (

DE 3		DE	D
JK D		d(202 10 <sup>-6</sup> D)44	20.3s
JK•		d(502 10 <sup>-6</sup> D)44	20.1s
HI G		d(202 10 <sup>-6</sup> D)44	20.3s
23{} U : 90%HI b)			
DE 3	D	DE	D
D	<600m	d(302 10 <sup>-6</sup> D)44	J 0.3-3 / dQe 10 /
D	>600m	d(502 10 <sup>-6</sup> D)44	dQe 10 /
•	<600m	d(1002 10 <sup>-6</sup> D)44	J 0.3-3 / dQe 10 /
•	>600m	d(1002 10 <sup>-6</sup> D)44	dQe 10 /
<b>60</b>			
@/   } mNTS-382/5R4u~			
23			
QRT"		JK	HI G(60*60)mm
V ~ QR<g (oW<40` &		5000m	400m
23			
QRT"		HI i /: 1D1	HI i W0.18D2
V ~ QR<g (oW<40` &		400m	200m
@/   } mNTS-382/5R6u~			
23			
QRT"		JK	HI G(60*60)mm
V ~ QR<g (oW<40` &		5000m	600m
23			
QRT"		HI i /: 1D1	HI i W0.18D2
V ~ QR<g (oW<40` &		600m	300m
@/   } mNTS-382/5R8u~			
23			
QRT"		JK	HI G(60*60)mm
V ~ QR<g (oW<40` &		5000m	800m
23			
QRT"		HI i /: 1D1	HI i W0.18D2
V ~ QR<g (oW<40` &		800m	400m
@/   } mNTS-382/5R10u~			
23			
QRT"		JK	HI G(60*60)mm
V ~ QR<g (oW<40` &		5000m	1000m

23		
QRT"	HI i /: 1D1	HI i W0.18D2
V ~ QR<g ( oW< 40` &	1000m	500m
@/   } mNTS-382/5R12 u ~		
23		
QRT"	JK	HI G(60*60)mm
V ~ QR<g ( oW< 40` &	5000m	1200m
23		
QRT"	HI i /: 1D1	HI i W0.18D2
V ~ QR<g ( oW< 40` &	1200m	600m
D1U : 90%HI b	D2U	18%HI b

**RG**

	NTS-382R4/6/8/10/12	NTS-385R4/6/8/10/12
<b>&lt;=67</b>		
D; 3	! " 3	
m&: h	79mm	
de, - TM	0.1} / 1} / 5} j	
W	2}	5}
WD 3	=>& h	9: & h
<b>• 补A</b>		
O	CO	
K 3Th	4844	
r Q+b	! 7	
&;	! 7	
de YEc	1.24	
<b>: ; 供水&amp;</b>		
	4 Ot 3	
	d3	
b	1}	
<b>( 9&amp;</b>		
= i	30} 9244	
= i	8   9244	
<b>) umm&amp;</b>		
O	CO	
r Q+b	3	
~Y	0.54nX	



Q; P ^)

8 vp

8k6

8 6Qt u

8x ti

8SD /64 64 1 1

8USB t

8" `

8 CQ %

8

8B\_ f

8 " ` f

8

8 a b

8 G

8hi

8 1

HI G/20 20 30 30,40 40,60 601 1

**— ^! A`**

***1***

\_+9\_<3283639+3310927-00d014\_\*56\_5.869

- 目标高=5.869米
- 编码=56
- 块校验位=014
- 角度单位=度分秒
- 倾斜改正=00'58"
- 水平角=331°09'27"
- 垂直角=328°36'39"
- 角度测量标志
- 点号=9

3XEcD Mn

>ED

\_+10\_R+00000032m3380049+3310926d+00000080t00+00+00000\_\*56\_5.869

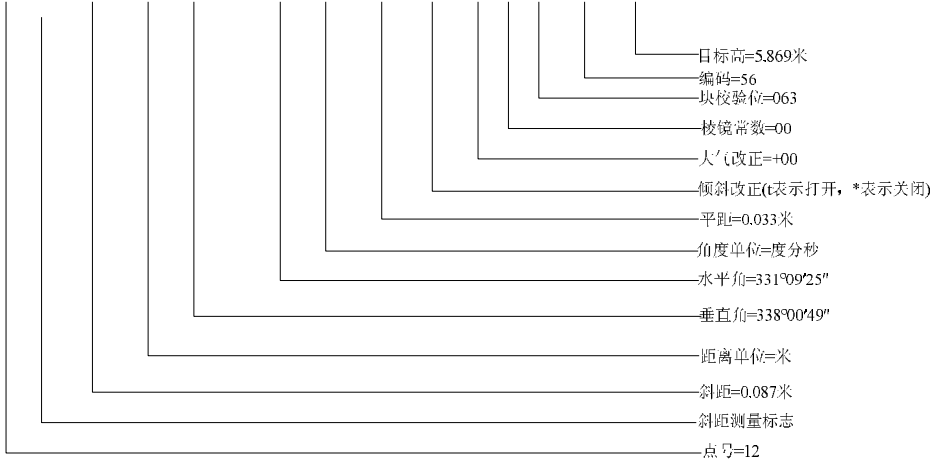
\_+10\_R+00000032m3380049+3310926d+00000080t00+00+00000\_\*56\_5.869

- 目标高=5.869米
- 编码=56
- 块校验位=000
- 棱镜常数=00
- 人'改正=+00
- 倾斜改正(t表示打开,\*表示关闭)
- 高差=0.080米
- 角度单位=度分秒
- 水平角=331°09'26"
- 垂直角=338°00'49"
- 距离单位=米
- 平距=0.032米
- 平距测量标志
- 点号=10

AED

\_+12\_?+00000087m3380055+3310925d+00000033t00+00+00063\_\*56\_5.869

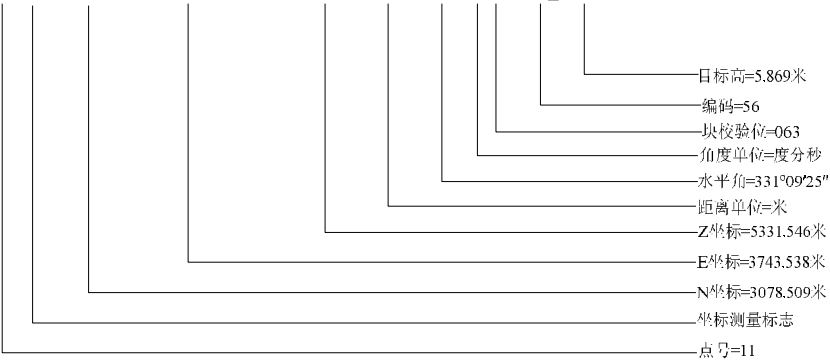
\_+12\_ ?+00000087m3380055+3310925d+00000033t00+00+00063\_\*56\_5.869



4X D Mn

\_+11\_ U+00003078509+00003743538+00005331546m+3310925d086\_\*56\_5.869

\_+11\_ U+00003078509+00003743538+00005331546m+3310925d086\_\*56\_5.869



2

/\]6 ? Mn 3

NTS660 X? h

P E N Z l m

- 1, 1000.000,1000.000,1000.000, STN
- 2, 990.000,1010.000,100.000, STN
- 101,994.890,1000.964,100.113, STN
- 102,993.936,1007.799,100.800, STN
- 103,998.515,1009.639,100.426, STN
- 104,1002.068,1002.568,100.342, STN
- 1001,1004.729,997.649,100.1153, PT

1002,1003.702,990.838,100.799, PT

1003,7911.990,990.358,100.403, PT

1004,997.311,998.236,100.354, PT

### NTS300 X? h

\_+1                    \_ x+01111107396\_ y+00000005457\_ z+00000003612\_+2                    \_  
x+01111107397\_ y+00000005457\_ z+00000003612\_+3                    \_ x+01111107395\_  
y+00000005457\_ z+00000003612\_+4                    \_ x+00000108916\_ y+00000101580\_  
z+00000100118\_

### 3

v l m ? l mo"                    G                    l m                    Nk 1 YQ

: S                    d

&  
 START( ) P E N  
 STRAIGHT(: ) ; Ec  
 ARC( ) gh  
 SPIRAL( ) gh W  
 PT( ) E N[ A1 A2]  
 (A1 A2: W)

1  
 START( ) 1000.000, 1050.000, 1100.000  
 STRAIGHT(: ) 25.000, 48.420  
 SPIRAL( ) 20.000, 20.000  
 ARC( ) 20.000, 23.141  
 SPIRAL( ) 20.000, 20.000  
 STRAIGHT(: ) 148.300, 54.679

2  
 START( ) 1000.000, 1050.000, 1100.000  
 PT( ) 1750.000, 1300.000, 100.000, 80.000, 80.000  
 PT( ) 1400.000, 1750.000, 200  
 PT( ) 1800.000, 2000.000

**5**

e < P\_\] 6 v 9: a Mn 9: a Mn a  
 W <YQ ?a W  
 Mn 3  
 P W

1000.000, 50.000, 0.000  
 1300.000, 70.000, 300.000  
 1800.000, 70.000, 300.000  
 2300.000, 90.000, 0.000

\_ ^! B` abc

j j k ?=> ( => ) h 3 Mn

	P	0
	N	1100.000
	E	1050.000
h[ENT]%	h[F4]( )%	h Mn

N	1300.000
E	1750.000
R	100.000
A1	80.000
A2	80.000

h + Mn

N	1750.000
E	1400.000
R	200.000
A1	0.000
A2	0.000

N	2000.000
E	1800.000
R	0.000
A1	0.000
A2	0.000

```
+Mn_hi \] 6 ? 3
START 0.000 1050.000 1100.000 CRLF
PT 1750.000 1300.000 100.000 80.000 80.000 CRLF
PT 1400.000 1750.000 200.000 0.000 0.000 CRLF
PT 1800.000 1800.000 2000.000 CRLF
```

2 LM

g \] <a W

$$L_{1.2} = \frac{A_{1.2}^2}{R}$$

$L_{1.2} : <a W$

$A_{1.2} : <a M$



k \ ] l  $\Delta R$

$$\Delta R = E - R(1 - \cos t)$$

$$\Delta R = 6.777 - 100(1 - \cos 18.20^\circ) \text{ (06)}$$

$$= 1.700$$

$$\text{\$ j a} \quad \Delta R_1 = \Delta R_2$$

m \ ] j

$$N_m = N - R \sin t = 63.348 - 100 \sin 18.20^\circ \text{ (06)} = 31.891$$

$$\text{\$ j a} \quad N_{m1} = N_{m2}$$

n \ ]

$$D_1 = R \tan\left(\frac{LA}{2}\right) + \Delta R_2 \operatorname{cosec}(LA) - \Delta R_1 \cot(LA) + N_{m1}$$

$$LA = +111.55^\circ \text{ (47)} \quad \operatorname{cosec} = \frac{1}{\sin}, \quad \cot = \frac{1}{\tan}$$

$$D_1 = 100 * \tan(111.55^\circ / 2) + 1.7(1 / \sin 111.55^\circ) \text{ (47)}$$

$$\quad - 1.7(1 / \tan 111.55^\circ) \text{ (47)} + 31.891$$

$$= 148.06015 + 1.8326 + 0.6844 + 31.891$$

$$= 182.468$$

$$D_1 = D_2$$

o \ ] KA1 ?

$$N_{KA1} = N_{IP1} - D_1 \cdot \cos a_1$$

$$E_{KA1} = E_{IP1} - D_1 \cdot \sin a_1$$

\_ BP IP1 ? ;  $\Rightarrow a_1 = 74.03^\circ \text{ (16.6)}$

$$N_{KA1} = 1300 - 182.468 * \cos 74.03^\circ \text{ (16.6)} = 1249.872 \text{ m}$$

$$E_{KA1} = 1750 - 182.468 * \sin 74.03 \approx 16.6$$

$$2 \quad \cdot \sin a_3$$

$$: KA2 BC = \sqrt{(1575.068 - 1444.032)^2 + (1536.058 - 1637.976)^2} = 166.005 \text{ m}$$

:

$$EC EP = \sqrt{(2000 - 1867.456)^2 + (1800 - 1587.929)^2} = 250.084 \text{ m}$$

(BP)

N 1100.000 m

E 1050.000 m

BP < KA1 ? :

; 74 03 | 16.6}

Ec 545.543 m

KA1 < KE1 ? j a

gh -100 m (+-, - w- Y ? / a / )

W 64 m

KE1 < KE2 ?

gh -100 m (+-, - w- Y ? / a / )

W 131.354 m

KE2 < KA2 ? j a

gh -100 m (+-, - w- Y ? / a / )

W 64 m

KA2 < BC ? :

; 322 07 | 30.1}

Ec 166.004 m

BC < EC ?

gh 200 ( P - w- Y ? / a / )

W 334.648 m

EC < EP ? :

; 57 59 | 40.6}

Ec 250.084 m

**\_ ^! C`**

**1 NTS NOP** (

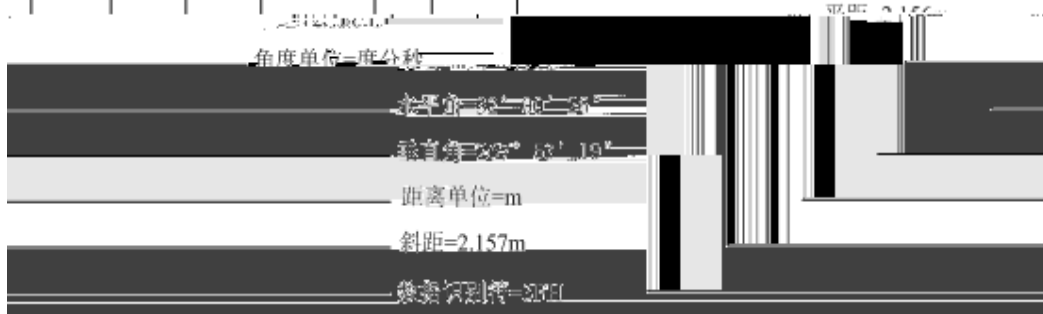
**E c 1mm 23 ? Mn 3**

1) AE(SD)23

?+00002157m2675319+0320026d+00002156\*00+00+00062EXT(CRLF)

ID	SD	m/f/i	V	H	d/g/m	HD	t/*L	P	0	BCC

块校验符=062  
棱镜常数=+00  
大气改正=+00  
0值  
倾斜改正(t表示打  
开,\*表示关闭)



2) >E/ (HD/VD)23

R+00002175m2682307+3470701d-00000061t00+00+00008EXT(CRLF)

HD	m/f/i	V	H	d/g/m	VD	t/*L	P	0	BCC

高差=-0.061m

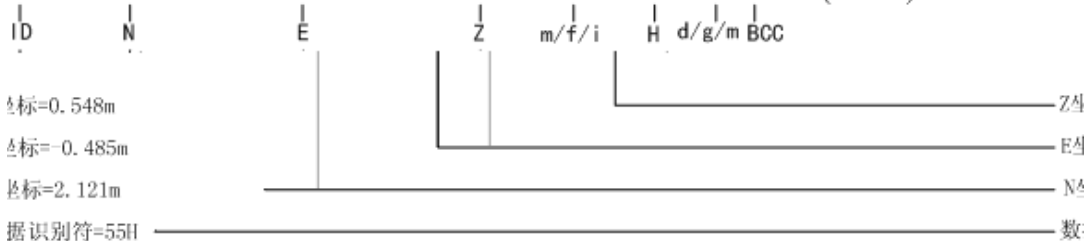
数据识别符=52H

3) ; W(H/V 23)



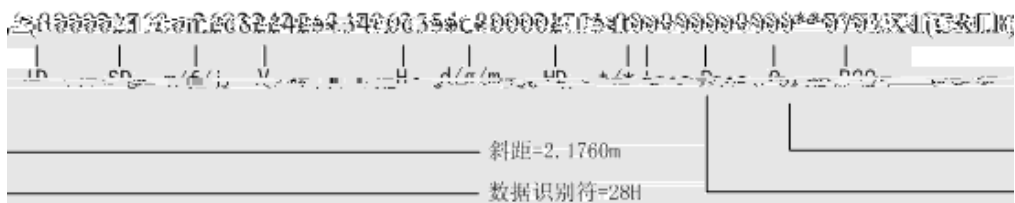
4) (N/E/Z) 23

U+00000002121-00000000485+00000000548m+3470702d095EXT(CRLF)

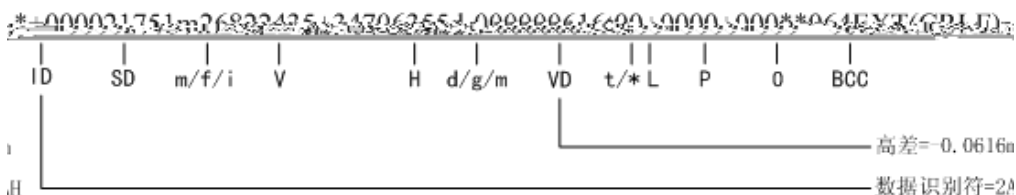


Ec 0.1mm 23 ? Mn 3

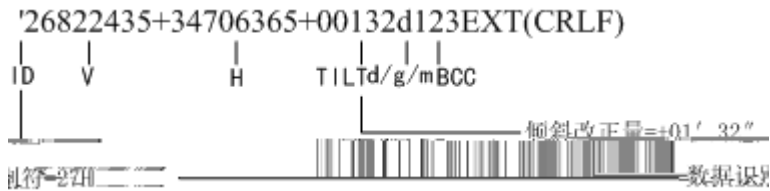
1) AE (SD) 23



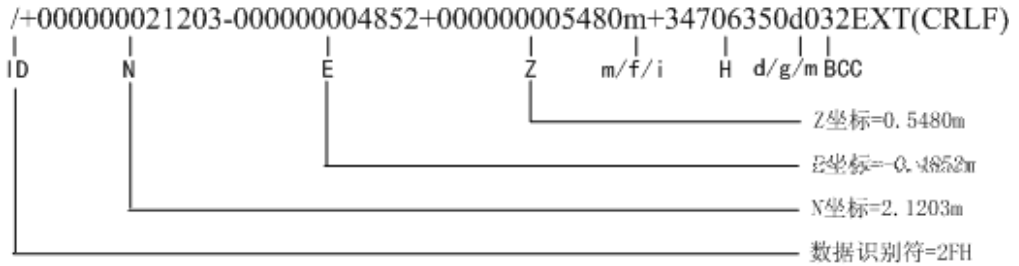
2) > E/ (HD/VD) 23



3); W(H/V) 23



4) (N/E/Z)23



2 QR8STU

```

y F      gD      Mn      \ ] 6
          C 067  ETX  CRLF
          ASCII m 43H 30H 36H 37H 03H 0DH 0AH
yc F      Nr S ?Mn      3
          ACK 006  ETX  CRLF      3
          ASCII m 06H 30H 30H 36H 03H 0DH 0AH
          NAK 021  ETX  CRLF      3
          ASCII m 14H 30H 32H 31H 03H 0DH 0AH
yt F      B D 23
                                     23
          Z10 091  ETX  CRLF      H/V ; WD
ASCII m 5AH 31H 30H 30H 39H 31H 03H 0DH 0AH
          Z12 089  ETX  CRLF      HR ;
ASCII m 5AH 31H 32H 30H 39H 31H 03H 0DH 0AH
          Z13 088  ETX  CRLF      HL ;
ASCII m 5AH 31H 33H 30H 39H 31H 03H 0DH 0AH

          Z32 091  ETX  CRLF      SD d D
ASCII m 5AH 33H 32H 30H 39H 31H 03H 0DH 0AH
          Z34 093  ETX  CRLF      SD D
ASCII m 5AH 33H 34H 30H 39H 33H 03H 0DH 0AH
    
```

	Z35	092	ETX	CRLF		SD		D	
ASCII m	5AH	33H	35H	30H	39H	32H	03H	0DH	0AH
	Z42	092	ETX	CRLF		HD	d	D	
ASCII m	5AH	34H	32H	30H	39H	32H	03H	0DH	0AH
	Z44	090	ETX	CRLF		HD		D	
ASCII m	5AH	34H	34H	30H	39H	30H	03H	0DH	0AH
	Z45	091	ETX	CRLF		HD		D	
ASCII m	5AH	34H	35H	30H	39H	31H	03H	0DH	0AH
	Z62	094	ETX	CRLF		NEZ	d	D	
ASCII m	5AH	36H	32H	30H	39H	34H	03H	0DH	0AH
	Z64	088	ETX	CRLF		NEZ		D	
ASCII m	5AH	36H	34H	30H	38H	38H	03H	0DH	0AH
	Z65	089	ETX	CRLF		NEZ		D	
ASCII m	5AH	36H	35H	30H	38H	39H	03H	0DH	0AH

3 V P

W \* X

h) \] 6 ?\*P ( )

元次并  
次(复67>?e次 肩①补变② 崩②补变 补补重元补补变补②补补补② 肩代识补补补补② 肩代补变补②)

```

<--- C 067 ETX
      ( Nr )          --->
<--- C 067 ETX
      ( Nr )          --->
      t
      t
      d7#
  
```

```

      D Mn    --->
<--- ( Nr )
      D Mn    --->
<--- ( Nr )
      t
      t
      d7#
  
```

### 变讯67>?8v UO

- 1) \] 6 / hi y \* F
- 2) hi +C, ? BCC S ? C 0.05 / hi / \] 6 s  
\* P+ACK, 4 S ? C hi / \] 6 Nr \* P
- 3) \] 6 0.05 / \ S 1 f hi ? s \* P+ACK, \] 6 @  
D ?
- 4) 3) d7 ( 10 J \] 6 > , - = \* +

```

NTS          \] 6
<--- y * F
      ACK 006 ETX    --->
  
```

```

<--- y * F
      ( Nr )          --->
<--- y * F
      ( Nr )          --->
      t
      t
      d7#
  
```

u v t 010-67805689  
r w t x O t h i ( ` N