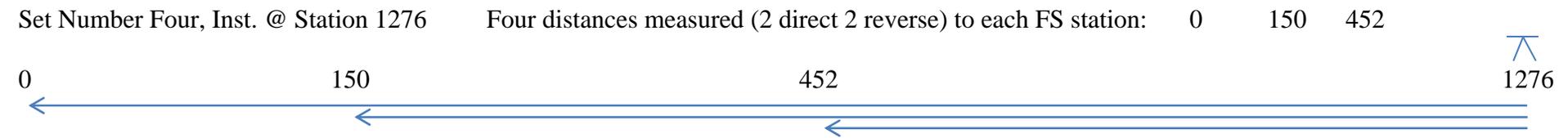
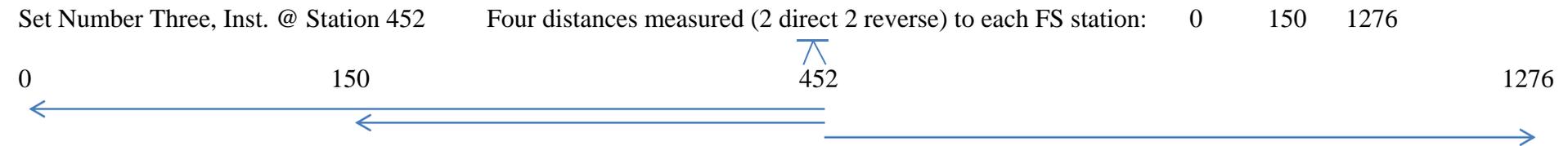
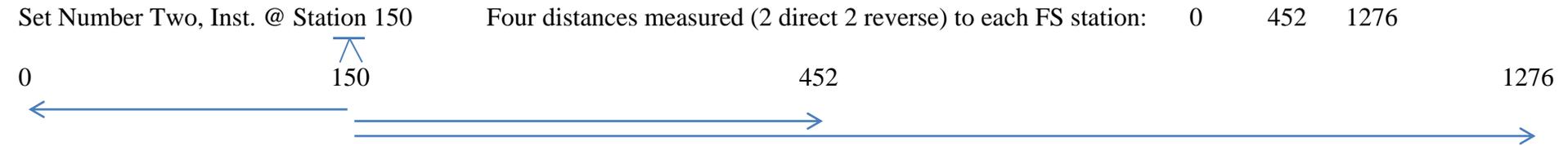
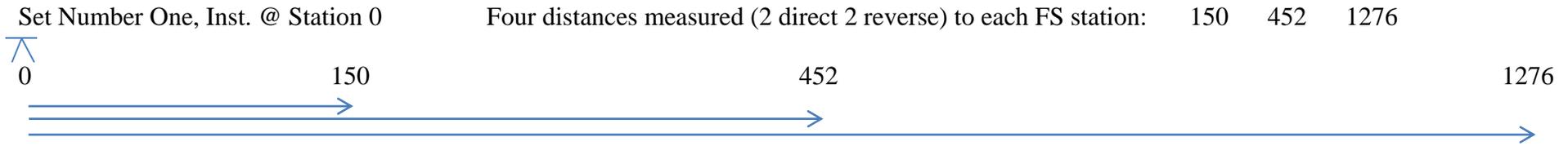


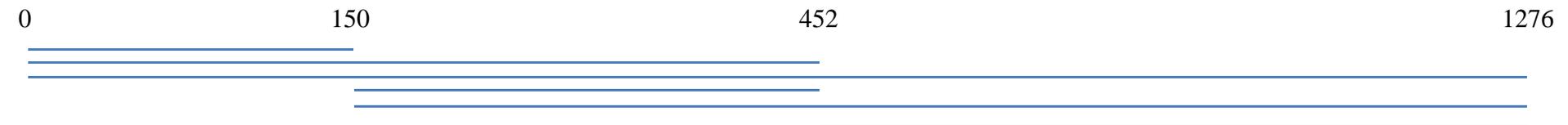
BASE LINE CALIBRATION FORMS

BASE LINE INSTRUMENT POSITION AND MEASUREMENT DIAGRAM



Final six (6) sets of mean distances to record on “Summary of Base Line Horizontal Distance Calibration” Sheet six (6) are as follows:

0 to 150 0 to 452 0 to 1276 150 to 452 150 to 1276 452 to 1276



CALIBRATION BASE LINE FIELD WORKSHEET

Note: A complete calibration shall contain 4 instrument setups and equipment verification is to be performed with the same auxiliary equipment i.e. tripods, tribrachs and glass used in daily field work with this instrument.

PLEASE NOTE: When filling out this form on the computer, **DO NOT** use the **ENTER** key, **ONLY** use the **TAB KEY** to get you through the form.

H.I. (Meters)		Horizontal Distance (Meters)	Slope Distance (Meters)	Vertical Angle (Degrees)	Vertical Difference (Meters)	Target Height (Meters)	
Inst. @ Station	F.S. @						
		D1		°			
		R1		°			
		D2		°			
		R2		°			
	Average			°			
			D1		°		
			R1		°		
			D2		°		
			R2		°		
	Average			°			
			D1		°		
			R1		°		
D2				°			
R2				°			
Average			°				

Date:	Survey Crew:				
Weather:	Temperature:	°F	Pressure:	PPM Correction:	
Instrument:				Serial No.	
Baseline Name:					
Notes:					

CALIBRATION BASE LINE FIELD WORKSHEET

Note: A complete calibration shall contain 4 instrument setups and equipment verification is to be performed with the same auxiliary equipment i.e. tripods, tribrachs and glass used in daily field work with this instrument.

H.I. (Meters)		Horizontal Distance (Meters)	Slope Distance (Meters)	Vertical Angle (Degrees)	Vertical Difference (Meters)	Target Height (Meters)	
Inst. @ Station	F.S. @						
		D1		o			
		R1		o			
		D2		o			
		R2		o			
	Average			o			
			D1		o		
			R1		o		
			D2		o		
			R2		o		
	Average			o			
			D1		o		
			R1		o		
D2				o			
R2				o			
Average			o				

Date:	Survey Crew:				
Weather:	Temperature:	°F	Pressure:	PPM Correction:	
Instrument:				Serial No.	
Baseline Name:					
Notes:					

CALIBRATION BASE LINE FIELD WORKSHEET

Note: A complete calibration shall contain 4 instrument setups and equipment verification is to be performed with the same auxiliary equipment i.e. tripods, tribrachs and glass used in daily field work with this instrument.

H.I. (Meters)		Horizontal Distance (Meters)	Slope Distance (Meters)	Vertical Angle (Degrees)	Vertical Difference (Meters)	Target Height (Meters)	
Inst. @ Station	F.S. @						
		D1		o			
		R1		o			
		D2		o			
		R2		o			
	Average			o			
			D1		o		
			R1		o		
			D2		o		
			R2		o		
	Average			o			
			D1		o		
			R1		o		
D2				o			
R2				o			
Average			o				

Date:	Survey Crew:				
Weather:	Temperature:	°F	Pressure:	PPM Correction:	
Instrument:				Serial No.	
Baseline Name:					
Notes:					

CALIBRATION BASE LINE FIELD WORKSHEET

Note: A complete calibration shall contain 4 instrument setups and equipment verification is to be performed with the same auxiliary equipment i.e. tripods, tribrachs and glass used in daily field work with this instrument.

H.I. (Meters)		Horizontal Distance (Meters)	Slope Distance (Meters)	Vertical Angle (Degrees)	Vertical Difference (Meters)	Target Height (Meters)	
Inst. @ Station	F.S. @						
		D1		o			
		R1		o			
		D2		o			
		R2		o			
	Average			o			
			D1		o		
			R1		o		
			D2		o		
			R2		o		
	Average			o			
			D1		o		
R1				o			
D2				o			
R2				o			
Average			o				

Date:	Survey Crew:				
Weather:	Temperature:	°F	Pressure:	PPM Correction:	
Instrument:				Serial No.	
Baseline Name:					
Notes:					

Summary of Base Line Horizontal Distance Calibration

This Summary is **NOT** to be used to determine if the instrument has “passed” the requirements for this Base Line. It is for information only. The information from the worksheets will be used by CDOT for the final determination.

Note: Avg. of all 8 distances shall include 4 direct or face 1 and 4 reverse or face 2 observations
(In which 2 direct or face 1 and 2 reverse or face 2 shall be measured from each setup on the baseline)

Base Line: _____ Date: _____
 Instrument: _____ Serial Number: _____
 Manufactures instrument tolerance is (example: +/- (5mm + 5ppm)): _____

Station to Station	Avg. of all 8 Horizontal Distances	-	Published Distance	=	Computed Difference (Observed +/- From Published)	Computed Tolerance*
_____	_____		_____		_____	_____
_____	_____		_____		_____	_____
_____	_____		_____		_____	_____
_____	_____		_____		_____	_____
_____	_____		_____		_____	_____
_____	_____		_____		_____	_____
_____	_____		_____		_____	_____
_____	_____		_____		_____	_____

, Eqo r wgf "Vqrgtcpeg"ku'ecrewcvgf "wukpi 'j g'hqmny kpi <"
 ""kputwo gpv'r o B.222.222'z'Rwdrkuj gf "J qtk qpvcilF kucpeg"- "kputwo gpv'gttqt "%o o +?" "eqo r wgf "vqrgtcpeg0
Czco r mg "Ecrewcvkp'hqt'cp'kputwo gpv'y cv'j cu'ur gelhecvkp'qh"- 1"*5o o "cpf "5r r o +ku'ecrewcvgf "cu'hqmny u<
 ""5 B.222.222'z"372645; "- "2025""
 ""2022225'z"372645; "- "2025
 ""202267"- "2025"? "20257"o gvtu0"
 Vj gtghqtg"- 1"20257"o gvtu'y qwrf "dg'y g'cmny gf "gttqt'hqt'y ku'kputwo gpv'cv'y ku'r ctvewct"j qtk qpvcilf kucpeg0"

Remarks:

Please state the manufacturer of the glass and tripods and list the date when the auxiliary equipment was last adjusted.
