

ALBERTA TRANSPORTATION AND  
ECONOMIC CORRIDORS GRMP  
PEACE REGION  
(GRANDE PRAIRIE DISTRICT - NORTH)  
INSTRUMENTATION MONITORING - SPRING 2025



Site Number	Location	Name	Hwy	km
PH077	HWY 726:02 km 9.91, 10.30	East of Hines Creek Bridge	682:02	Km 12.5 to 12.8
<b>Legal Description:</b> 10-35-81-5 W6		<b>UTM Co-ordinates</b>		
		11U E 396680	N	6214978

<b>Current Monitoring:</b>	14-June-2025	<b>Previous Monitoring</b>	24-Feb-2025
<b>Instruments Read By:</b>	Mr. Niraj Regmi, G.I.T. and Mr. Godfred Etiendem, of Thurber		

Instruments Read During This Site Visit			
<b>Slope Inclinometers (SIs):</b> TH24-02, TH24-04, TH24-06, TH24-09 TH24-10, TH24-11	<b>Pneumatic Piezometers (PN):</b> N/A	<b>Vibration Wire Piezometers (VW):</b> TH24-01 to TH24-12	<b>Standpipe Piezometers (SP):</b> N/A
<b>Load Cell (LC):</b> N/A	<b>Strain Gauges:</b> N/A	<b>SAA:</b> N/A	<b>Others:</b> N/A

Readout Equipment Used			
<b>Slope Inclinometers:</b> Two RST Digital Inclinometer probes with 2 ft. wheelbases and RST Pocket PC readouts	<b>Pneumatic Piezometers:</b> N/A	<b>Vibration Wire Piezometers:</b> Geokon GK 404 vibrating wire readout	<b>Standpipe Piezometers:</b> N/A
<b>Load Cell:</b> N/A	<b>Strain Gauges:</b> N/A	<b>SAA:</b> N/A	<b>Others:</b> N/A

**Notes:**

Discussion	
<b>Zones of New Movement:</b>	A potential zones of new movement was observed in SI TH24-09 over 21.1 m to 23.0 m depth. This zones was previously thought to have errors in the readings or caused by poor grouting, but a trend of movement appears to be developing. This zone should be confirmed over the next few readings.
<b>Interpretation of Monitoring Results:</b>	<p>Slope inclinometer TH24-02 showed that the reading taken on February 24, 2024 was not consistent with the other readings taken from this SI; thus, this erratic reading was removed from the plot. The next set of readings in the fall will confirm if this assessment is correct. Comparing the current readings to the readings taken September 25, 2024, the SI showed rates of movement of 1.0 mm/yr over 0.4 to 2.2 m depth, and 5.9 mm/yr over 8.3 m to 10.8 m depth, respectively. Both of these rates of movement are the highest recorded in the instrument since initialization, excluding the erratic reading.</p> <p>Slope inclinometer TH24-04 showed a rate of movement of 2.2 mm/yr over 0 m to 1.1 m depth, corresponding to a decrease in the rate of movement of 33.2 mm/yr since the February 24, 2025 reading.</p> <p>Slope inclinometer TH24-06 showed no discernible movement over 0.1 m to 1.9 m depth since the February 24, 2025 reading.</p>

	<p>Slope inclinometer TH24-09 showed a rate of movement of 9.2 mm/yr over 0 m to 7.1 m depth, corresponding to increase in the rate of movement of 12.2 mm/yr since the February 24, 2025 reading. Over 21.1 m to 23 m depth, TH24-09 showed a rate of movement of 1.6 mm/yr, corresponding to a decrease in the rate of movement of 0.1 mm/yr.</p> <p>Slope inclinometer TH24-10 shows no well defined movement zones since it was initialized in July, 2024.</p> <p>Slope inclinometer TH24-11 showed a rate of movement of 1.6 mm/yr over 1.2 m to 6.7 m depth, corresponding to a decrease in the rate of movement of 16.4 mm/yr since the February 24, 2025 reading. Overall, except for TH24-09 the SIs showed decreases in rates of movement since their last readings. These movement zones and the average annual rate of movement, should be confirmed over the following few sets of readings.</p> <p>Since the previous readings on February 24, 2025, the groundwater level in vibrating wire piezometer TH24-01 decreased by 0.08 m. Vibrating wires piezometers TH24-02 to TH24-12 showed increases in groundwater levels compared to February 24, 2025 ranging from 0.03 m in TH24-02 to 8.76 m in TH24-12. Vibrating wire piezometers TH24-03 to TH24-06, TH24-08, TH24-11, and TH24-12 registered the highest groundwater levels recorded since initialization.</p> <p>It should be confirmed whether the large increase in TH24-12 is an actual trend, or a reading error during the spring of 2025 readings.</p>
<b>Future Work:</b>	<p>The instruments should be read again in the fall of 2025.</p> <p>The Movement zones in the SIs should be confirmed when there are more readings to analyze, and it should be confirmed whether the groundwater elevation in TH24-12 remains elevated.</p>
<b>Instrumentation Repairs:</b>	No instrument repairs are required at this time.
<b>Additional Comments:</b>	

<b>Attachments:</b>	<ul style="list-style-type: none"> <li>• Table PH077-1 Spring 2025 – HWY 686:02 East of Hines Creek Bridge, Slope Inclinometer Instrumentation Reading Summary</li> <li>• Table PH077-2 Spring 2025 – HWY 686:02 East of Hines Creek Bridge, Vibrating Wire Piezometer Instrumentation Reading Summary</li> <li>• Statement for Use and Interpretation of Report.</li> <li>• APPENDIX A - PH077-1 SPRING 2025 <ul style="list-style-type: none"> <li>○ Field Inspector’s report</li> <li>○ Site Plan Showing Approximate Instrument Locations (Drawings No. 32123 PH077-1)</li> <li>○ SI Reading Plots</li> <li>○ Figure PH077-1 (Piezometric Depths)</li> <li>○ Figure PH077-2 (Piezometric Elevations)</li> </ul> </li> </ul>
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We trust this report meets your requirements at present. If you have any questions, please contact the undersigned at your convenience.

Yours very truly,  
Thurber Engineering Ltd.  
Renato Clementino, Ph.D., P. Eng.  
Principal | Senior Geotechnical Engineer

Lucas Green, P.Eng.  
Geotechnical Engineer

**Table PH077-1: Spring 2025 – HWY 686:02 East of Hines Creek Bridge Slope Inclinometer Instrumentation Reading Summary**  
Date Monitored: June 14, 2025

INSTRUMENT #	DATE INITIALIZED	TOTAL CUMULATIVE RESULTANT MOVEMENT AND DEPTH OF MOVEMENT TO DATE (mm)	MAXIMUM RATE OF MOVEMENT (mm/yr)	CURRENT STATUS OF SI	DATE OF PREVIOUS READING	INCREMENTAL MOVEMENT SINCE PREVIOUS READING (mm)	CURRENT RATE OF MOVEMENT (mm/yr)	CHANGE IN RATE OF MOVEMENT SINCE PREVIOUS READING (mm/yr)
TH24-02	July 6, 2024	4.3 mm over 0.4 m to 2.2 m depth in 66° direction	5.9 mm/yr In June 2025	Active	September 25, 2024 <sup>(1)</sup>	4.3	5.9	6.6
		-0.3 mm over 8.3 m to 10.8 m depth in 66° direction	1.0 mm/yr In June 2025			0.7	1.0	7.9
TH24-04	July 6, 2024	15.9 mm over 0 m to 1.1 m depth in 76° direction	35.3 mm/yr In February 2025	Active	February 24, 2025	0.6	2.2	-33.2
TH24-06	July 6, 2024	10.8 mm over 0.1 m to 1.9 m depth in 69° direction	41.7 mm/yr In February 2025	Active	February 24, 2025	No Discernible Movement	N/A	-63.1
TH24-09	July 6, 2024	8.5 mm over 0 m to 7.1 m depth in 37° direction	40.6 mm/yr In September 2024	Active	February 24, 2025	2.8	9.2	12.2
		4.5 mm over 21.1 m to 23.0 m depth in 37° direction	30.7 mm/yr In August 2024			0.5	1.6	-0.1
TH24-10	July 6, 2024	No Discernible Movement	No Discernible Movement	Active	February 24, 2025	No Discernible Movement	N/A	N/A
TH24-11	July 6, 2024	5.0 mm over 1.2 m to 6.7 m depth in 16° direction	18.0 mm/yr In February 2025	Active	September 25, 2025	1.1	1.6	-16.4

Drawing 32123-PH077-1 in Appendix A provides a sketch of the approximate location of the monitoring instrumentation for this site

(1) Reading taken in February 24, 2025 appears to be erratic. June 14, 2025 reading compared with September 25, 2024.

**Table PH077-2: Spring 2025 – HWY 686:02 East of Hines Creek Bridge Vibrating Wire Piezometer Instrumentation Reading Summary**  
 Date Monitored: June 14, 2025

INSTRUMENT	DATE INITIALIZED	TIP ELEV. (m)	GROUND ELEV. (m)	CURRENT STATUS	HIGHEST MEASURED WATER LEVEL BGS (m)	CURRENT GROUNDWATER DEPTH (mBGS)	PREVIOUS GROUNDWATER DEPTH (mBGS)	CHANGE IN WATER LEVEL SINCE PREVIOUS READING (m)
TH24-01	July 5, 2024	473.51	486.13	Active	9.56 mBGS on July 5, 2024	10.35	10.27	-0.08
TH24-02	June 27, 2024	468.83	486.25	Active	11.59 mBGS on August 2, 2024	11.68	11.71	0.03
TH24-03	July 5, 2024	469.79	487.17	Active	9.37 mBGS on June 14, 2025	9.37	9.52	0.15
TH24-04	July 6, 2024	466.03	487.87	Active	10.54 mBGS on June 14, 2025	10.54	12.05	1.51
TH24-05	July 6, 2024	471.50	489.46	Active	10.06 mBGS on June 14, 2025	10.06	10.36	0.30
TH24-06	July 6, 2024	468.84	490.22	Active	14.25 mBGS on June 14, 2025	14.25	14.33	0.08
TH24-07	July 6, 2024	484.73	498.41	Active	13.51 mBGS on August 2, 2024	13.62	13.71	0.09
TH24-08	July 6, 2024	482.79	500.55	Active	7.16 mBGS on June 14, 2025	7.16	7.29	0.13

Drawing 32123-PH077-1 in Appendix A provide sketches of the approximate locations of the monitoring instrumentation for this site

**Table PH077-2 Continued - Spring 2025 – HWY 686:02 East of Hines Creek Bridge Vibrating Wire Piezometer Instrumentation Reading Summary**

Date Monitored: June 14, 2025

INSTRUMENT	DATE INITIALIZED	TIP ELEV. (m)	GROUND ELEV. (m)	CURRENT STATUS	HIGHEST MEASURED WATER LEVEL BGS (m)	CURRENT GROUNDWATER DEPTH (mBGS)	PREVIOUS GROUNDWATER DEPTH (mBGS)	CHANGE IN WATER LEVEL SINCE PREVIOUS READING (m)
TH24-09	July 6, 2024	473.57	494.41	Active	0.15 mBGS on September 25, 2024	0.19	0.28	0.09
TH24-10	July 6, 2024	470.42	492.51	Active	4.11 mBGS on July 6, 2024	4.39	4.39	0
TH24-11	July 6, 2024	466.16	488.07	Active	12.34 mBGS on June 14, 2025	12.34	12.61	0.27
TH24-12	July 6, 2024	500.18	512.74	Active	2.07 mBGS on June 14, 2025	2.07	10.83	8.76

Drawing 32123-PH077-1 in Appendix A provide sketches of the approximate locations of the monitoring instrumentation for this site



## STATEMENT FOR USE AND INTERPRETATION OF REPORT

### 1. STANDARD OF CARE

This Report has been prepared in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances at the same time and in the same or similar locality and in compliance with all applicable laws.

### 2. COMPLETE REPORT

All documents, records, data and files, whether electronic or otherwise, generated as part of this assignment, including this Statement For Use and Interpretation of Report, are a part of the Report, which is of a summary nature and is not intended to stand alone without reference to the instructions given to Thurber by the Client, communications between Thurber and the Client, and any other reports, proposals or documents prepared by Thurber for the Client relative to the specific site described herein, all of which together constitute the Report.

**IN ORDER TO PROPERLY UNDERSTAND THE SUGGESTIONS, RECOMMENDATIONS AND OPINIONS EXPRESSED HEREIN, REFERENCE MUST BE MADE TO THE WHOLE OF THE REPORT, AS DESCRIBED ABOVE. THURBER IS NOT RESPONSIBLE FOR USE BY ANY PARTY OF PORTIONS OF THE REPORT WITHOUT REFERENCE TO THE WHOLE OF THE REPORT.**

### 3. BASIS OF REPORT

The Report has been prepared for the specific site, development, design objectives, and purposes that were described to Thurber by the Client. The applicability and reliability of any of the findings, recommendations, suggestions, or opinions expressed in the Report, subject to the limitations provided herein, are only valid to the extent that the Report expressly addresses proposed development, design objectives and purposes, and then only to the extent that there has been no material alteration to or variation from any of the said descriptions provided to Thurber, unless Thurber is specifically requested by the Client to review and revise the Report in light of such alteration or variation.

### 4. USE OF THE REPORT

The information and opinions expressed in the Report, or any document forming part of the Report, are for the sole benefit of the Client for the development, design objectives, and/or purposes described to Thurber by the Client. **NO OTHER PARTY MAY USE OR RELY ON THE REPORT OR ANY PORTION THEREOF FOR OTHER THAN THE CLIENT'S BENEFIT IN CONNECTION WITH THE PURPOSES DESCRIBED IN THE REPORT.** Any use which a third party makes of the Report is the sole responsibility of such third party and is always subject to this Statement for Use and Interpretation of Report. Thurber accepts no liability or responsibility for damages suffered by any third party resulting from use of the Report for purposes outside the reasonable contemplation of Thurber at the time it was prepared or in any manner unintended by Thurber.

### 5. INTERPRETATION OF THE REPORT

- a) **Nature and Exactness of Soil and Contaminant Description:** Classification and identification of soils, rocks, geological units, contaminant materials and quantities have been based on investigations performed in accordance with the standards set out in Paragraph 1. Classification and identification of these factors is inherently judgement-based. Comprehensive sampling and testing programs implemented with the appropriate equipment by experienced personnel may fail to locate some conditions. All investigations utilizing the standards of Paragraph 1 will involve an inherent risk that some conditions will not be detected and all documents or records summarizing such investigations will be based on assumptions of what exists between the actual points sampled. Actual conditions may vary significantly between the points investigated and the Client and all other parties making use of such documents or records with or without our express written consent need to be aware of this risk and the Report is delivered subject to the express condition that such risk is accepted by the Client and such other parties. Some conditions are subject to change over time and those making use of the Report need to be aware of this possibility and understand that the Report only presents the interpreted conditions at the sampled points at the time of sampling. If special concerns exist, or the Client has special considerations or requirements, the Client must disclose them so that additional or special investigations may be undertaken which would not otherwise be within the scope of investigations made for the purposes of the Report.
- b) **Reliance on Provided Information:** The evaluation and conclusions contained in the Report have been prepared based on conditions in evidence at the time of site inspections and based on information provided to Thurber. Thurber has relied in good faith upon representations, information and instructions provided by the Client and others concerning the site. Accordingly, Thurber does not accept responsibility for any deficiency, misstatement or inaccuracy contained in the Report resulting from misstatements, omissions, misrepresentations, or fraudulent acts of the Client or other parties providing information relied on by Thurber. Thurber is entitled to rely on such representations, information and instructions and is not required to carry out investigations to determine the truth or accuracy of such representations, information and instructions.
- c) **Design Services:** The Report may form part of design and construction documents for information purposes even though it may have been issued prior to final design being completed. Thurber is recommended to be retained to review final design, project plans and related documents prior to construction to confirm that they are consistent with the intent of the Report. Any differences that may exist between the Report's recommendations and the final design need to be reported to Thurber immediately so that Thurber can address potential conflicts.
- d) **Construction Services:** During construction Thurber should be retained to provide field reviews. Field reviews consist of performing sufficient and timely observations of encountered conditions to confirm and document that the site conditions do not materially differ from those conditions considered in the preparation of the report. Adequate field reviews are necessary for Thurber to provide letters of assurance, in accordance with the requirements of many regulatory authorities.

### 6. INDEPENDENT JUDGEMENTS OF CLIENT

The information, interpretations and conclusions in the Report are based on Thurber's interpretation of conditions revealed through limited investigation conducted within a defined scope of services. Thurber does not accept responsibility for independent conclusions, interpretations, interpolations and/or decisions of the Client, or other parties who may come into possession of the Report, or any part thereof, which may be based on information contained in the Report. This restriction of liability includes, but is not limited to, decisions made to develop, purchase, or sell land, unless such decisions expressly form part of the stated purpose of the Report as described in Paragraph 3.



**ALBERTA TRANSPORTATION AND ECONOMIC CORRIDORS GRMP (CON0022165)  
PEACE REGION (GRANDE PRAIRIE DISTRICT – NORTH)  
INSTRUMENTATION MONITORING RESULTS**

**SPRING 2025**

**APPENDIX A  
DATA PRESENTATION**

**SITE PH077: HWY 686:02, EAST OF HINES CREEK BRIDGE**

**ALBERTA TRANSPORTATION AND ECONOMIC CORRIDORS  
PEACE REGION (GRANDE PRAIRIE - NORTH DISTRICT)  
INSTRUMENTATION MONITORING FIELD SUMMARY (PH077)  
SPRING 2025**

<b>Location:</b> East of Hines Creek Bridge (HWY 682:02 km 12.5 to km 12.8)	<b>Readout:</b> GK404 SN 364
<b>File Number:</b> 32121	<b>Casing Size:</b> 2.75"
<b>Probe:</b> RST SET 8R	<b>Temp:</b> 12/ Rain
<b>Cable:</b> RST SET 8R	<b>Read by:</b> NKR/GE

**SLOPE INCLINOMETER (SI) READINGS**

SI#	GPS Location (UTM 11)		Date	Stickup (m)	Depth from top of casing (ft)	Azimuth of A+ Groove	Current Bottom Depth Readings				Probe/ Reel #	Size (")	Remarks
	Easting (m)	Northing (m)					A+	A-	B+	B-			
TH24-02	396680	6214978	14-Jun-25	1.12	68 to 2	205	-178	184	602	-625	8R/8R	2.75"	
TH24-04	396724	6214979	14-Jun-25	1.07	82 to 2	230	-185	194	-92	71	8R/8R	2.75"	
TH24-06	396762	6214978	14-Jun-25	0.83	80 to 2	198	-648	653	64	-77	8R/8R	2.75"	
TH24-09	396897	6214946	14-Jun-25	0.59	118 to 2	276	-273	273	1825	-1862	8R/8R	2.75"	
TH24-10	396889	6214933	14-Jun-25	0.92	84 to 2	275	-181	144	339	-370	8R/8R	2.75"	
TH24-11	396874	6214921	14-Jun-25	0.9	82 to 2	250	346	-261	2418	-2438	8R/8R	2.75"	

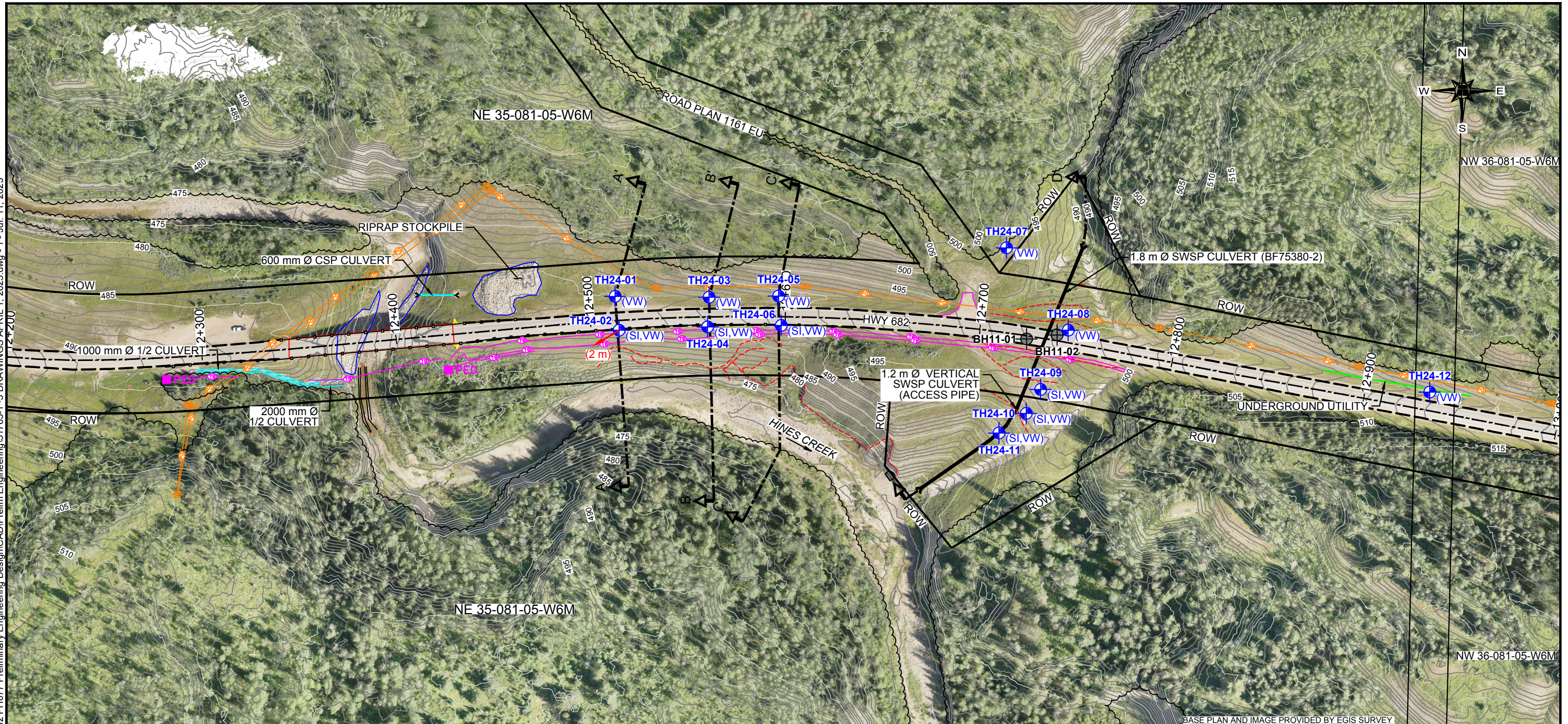
**VIBRATING WIRE PIEZOMETER READINGS**

PN#	GPS Location (UTM 11)		Date	Reading (B unit/°C)	Identification Number
	Easting (m)	Northing (m)			
TH24-01	396681	6214993	14-Jun-25	8492.7/6.2	VW183650
TH24-02	396680	6214978	14-Jun-25	8044.1/6.3	VW183648
TH24-03	396726	6214996	14-Jun-25	8067.8/6.1	VW183642
TH24-04	396724	6214979	14-Jun-25	7944.7/6.2	VW185238
TH24-05	396762	6214992	14-Jun-25	7758.2/6.2	VW183655
TH24-06	396762	6214978	14-Jun-25	8500.6/6.2	VW185237
TH24-07	396878	6215022	14-Jun-25	8523.9/4.8	VW184428
TH24-08	396911	6214976	14-Jun-25	7775.6/4.7	VW183654
TH24-09	396897	6214946	14-Jun-25	7753.0/4.6	VW185399
TH24-10	396889	6214933	14-Jun-25	7679.7/4.5	VW185245
TH24-11	396874	6214921	14-Jun-25	8311.1/4.4	VW185234
TH24-12	397095	6214943	14-Jun-25	7842.9/5.9	VW183658

**INSPECTOR REPORT**

Azimuth of all the SI measured downslope direction.
All the SIs were read in downslope direction for uniformity.
SI24-10 Probe sitting at 83°9". We should read from 82 ft .

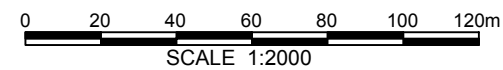
G:\151000\51763 Hwy 68202 PH077 Preliminary Engineering Design\CAD\Drawings\51763-1-5 DRAWINGS APRIL 1, 2025.dwg - 1 - Jul. 11, 2025



BASE PLAN AND IMAGE PROVIDED BY EGIS SURVEY

**LEGEND**

- |  |  |  |                        |
|--|--|--|------------------------|
|  | TREE LINE  |  | POWER POLE             |
|  | TEST HOLE LOCATION   |  | OVERHEAD POWER LINE    |
|  | SLOPE INCLINOMETER   |  | TELUS PEDESTAL         |
|  | VIBRATING WIRE PIEZOMETER  |  | UNDERGROUND TELUS LINE |
|  | 2011 TEST HOLE LOCATION  |  | GUARDRAIL              |
|  | SCARP CRACK (APPROXIMATE)  |  | CULVERT                |
|  | EDGE OF HIGHWAY PAVEMENT   |  | ROW                    |
|  | POSSIBLE MOVEMENT DIRECTION IN SI AND BASE OF MOVEMENT DEPTH (m) |  |                        |



**PH077-1: EAST SIDE OF HINES CREEK BRIDGE  
HWY 682:02, KM 12.6 TO KM 12.7  
PRELIMINARY ENGINEERING**

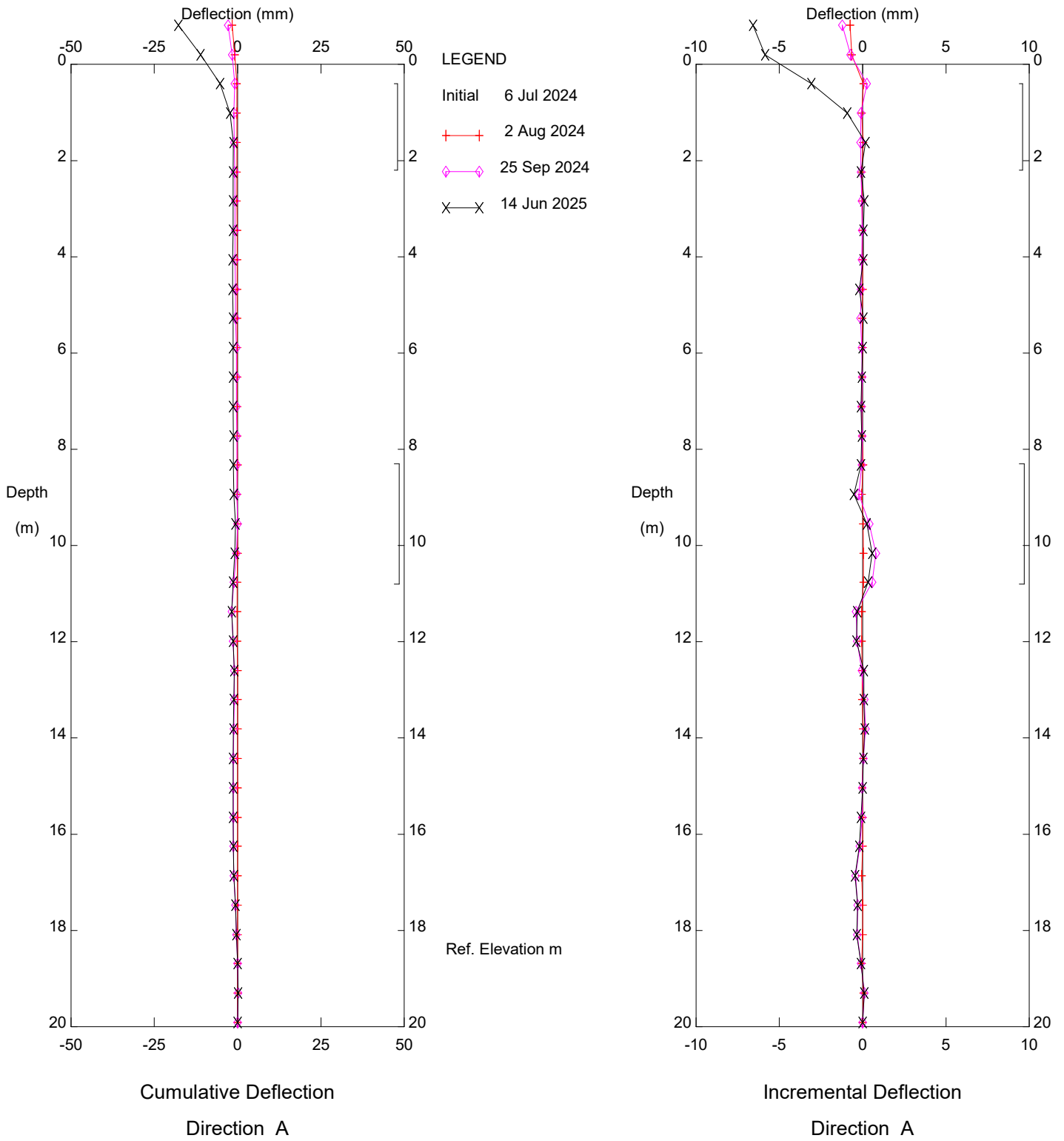
**SITE PLAN SHOWING APPROXIMATE  
TEST HOLE LOCATIONS**

**DWG No. 51763-1**

DRAWN BY	ML
DESIGNED BY	NPW
APPROVED BY	DWP
SCALE	1:2000
DATE	JULY 2025
FILE No.	51763

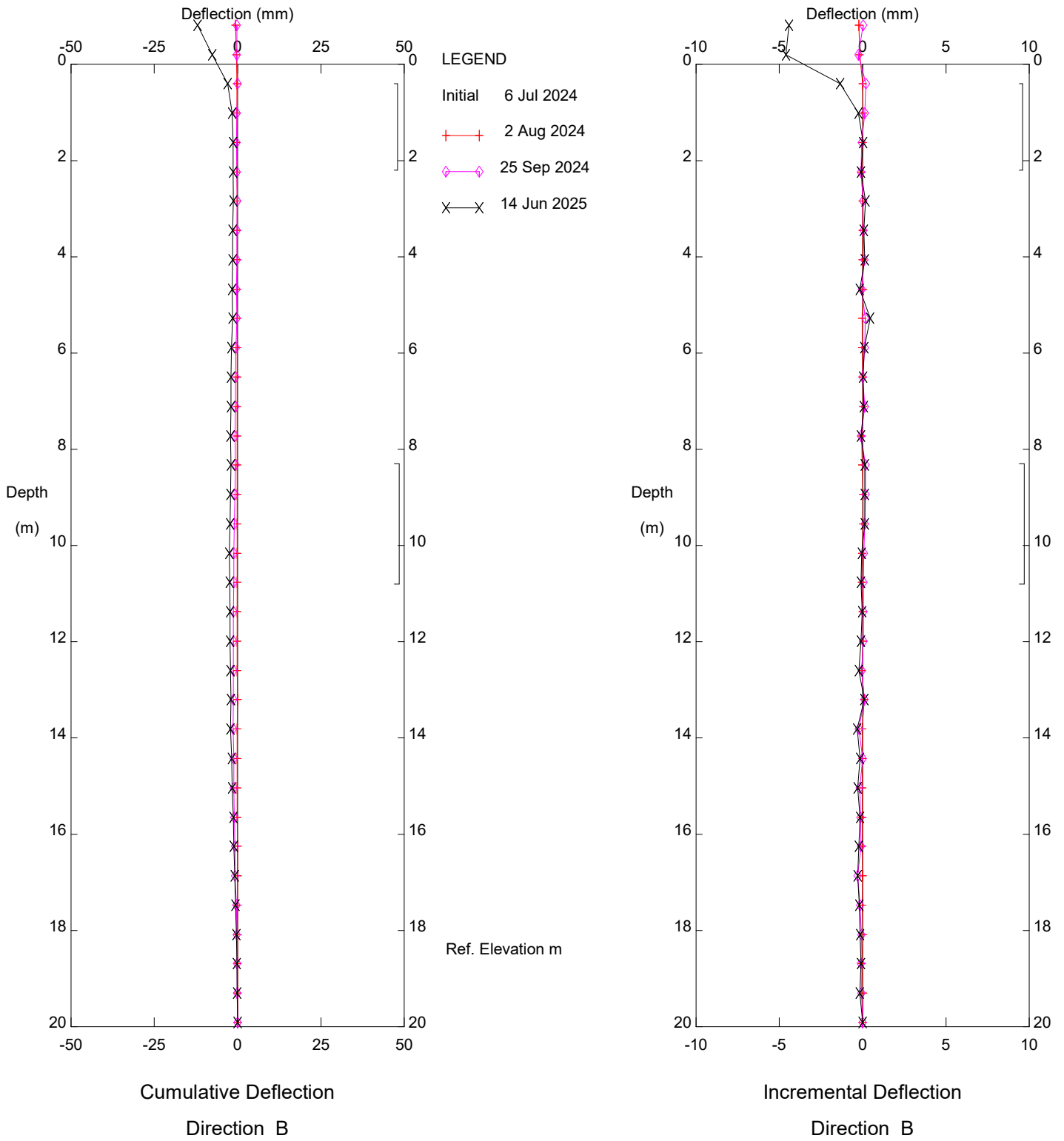


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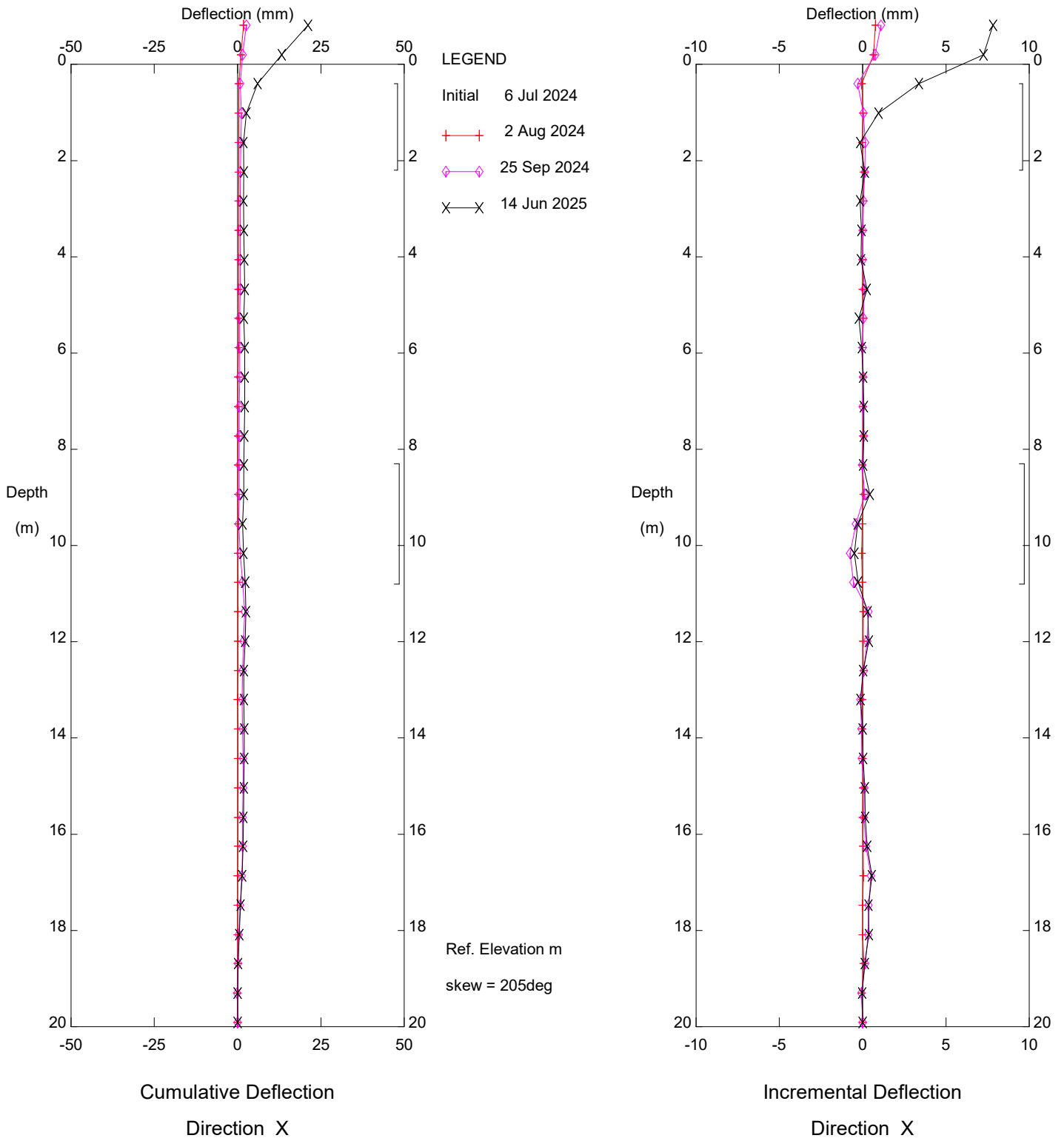
32123 - PH077, Inclinometer TH24-02

Thurber Engineering Ltd.



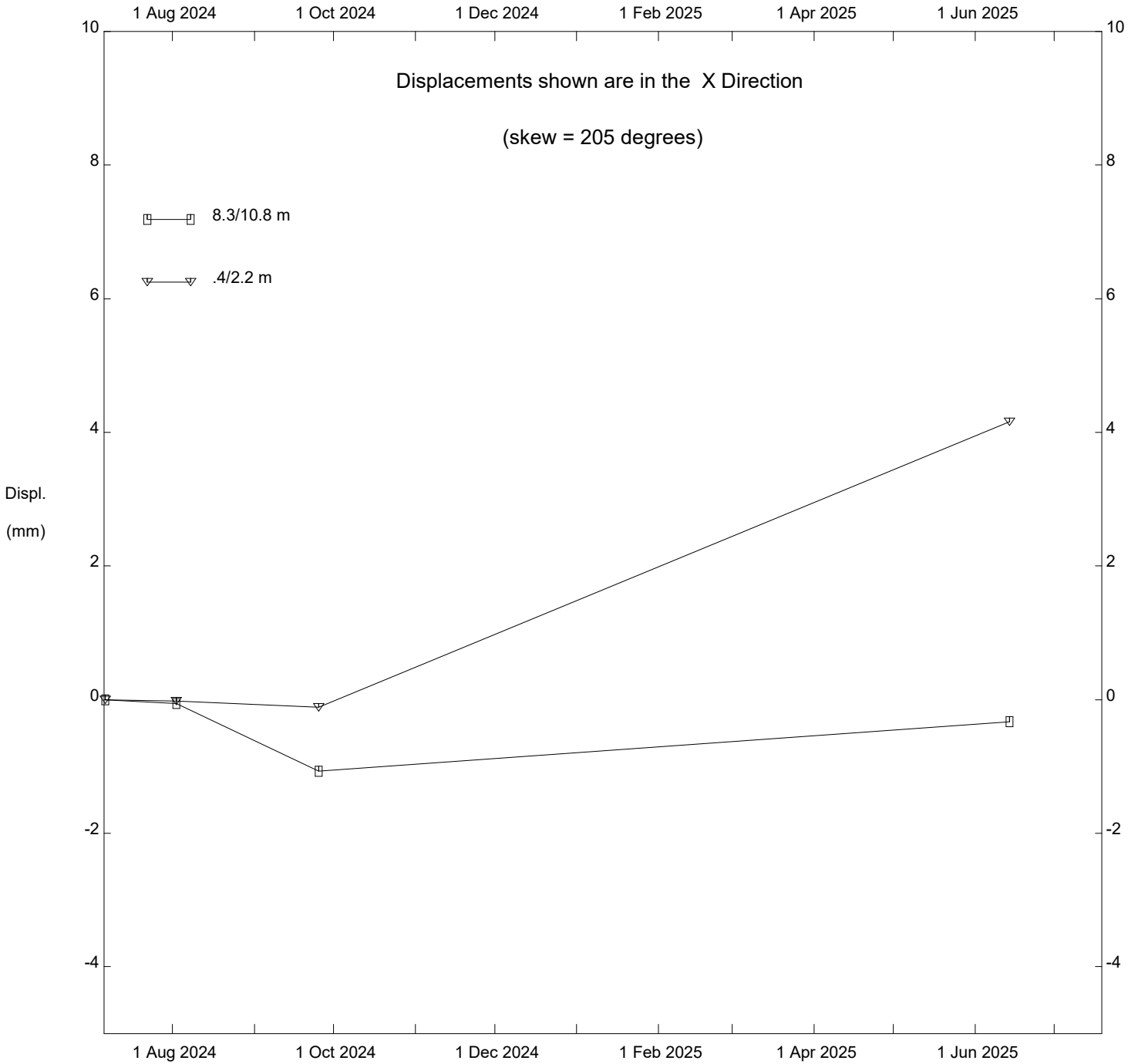
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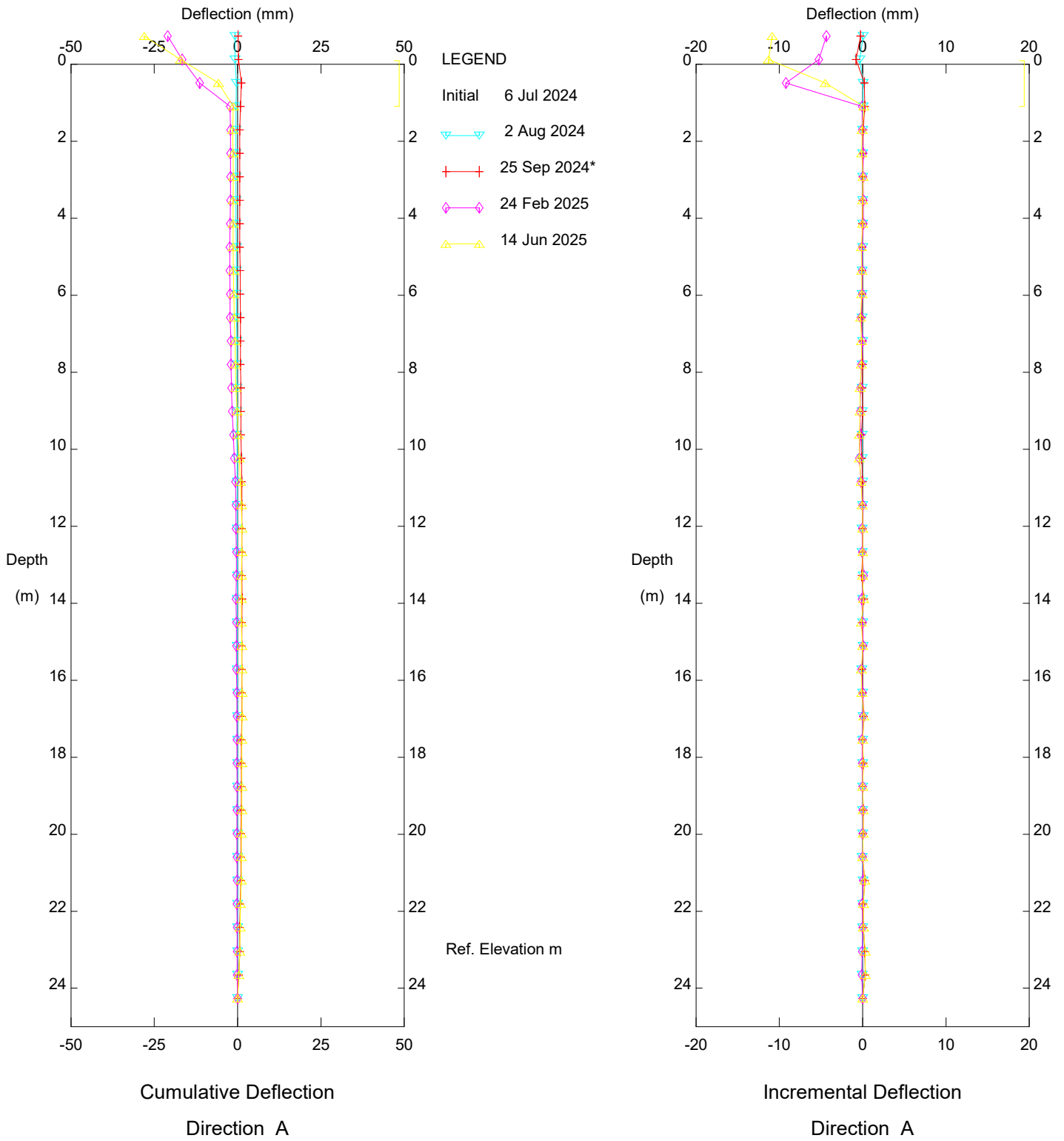


32123 - PH077, Inclinometer TH24-02

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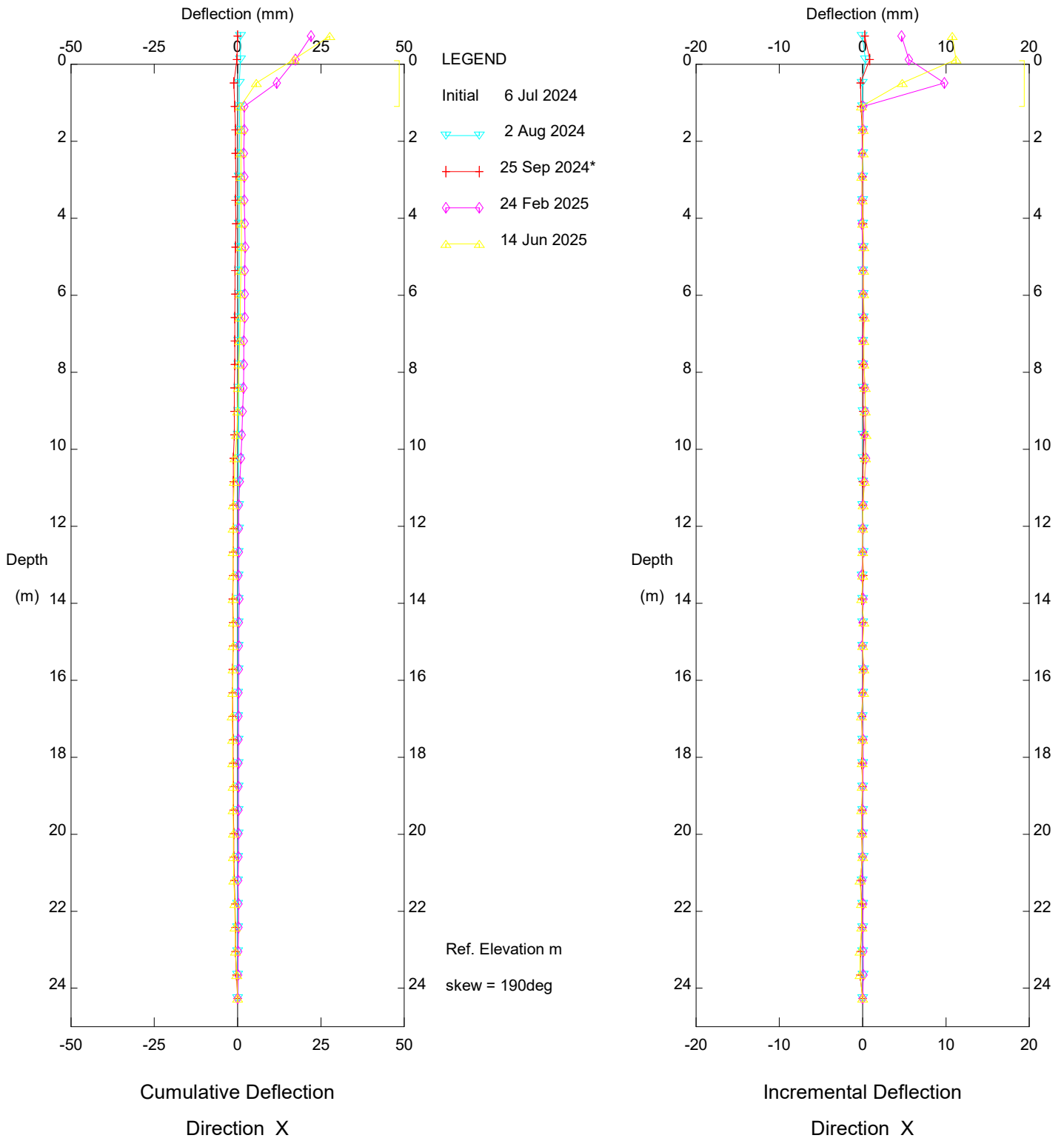


32123 PH077, Inclinometer TH24-04

Sets marked \* include zero shift and/or rotation corrections.



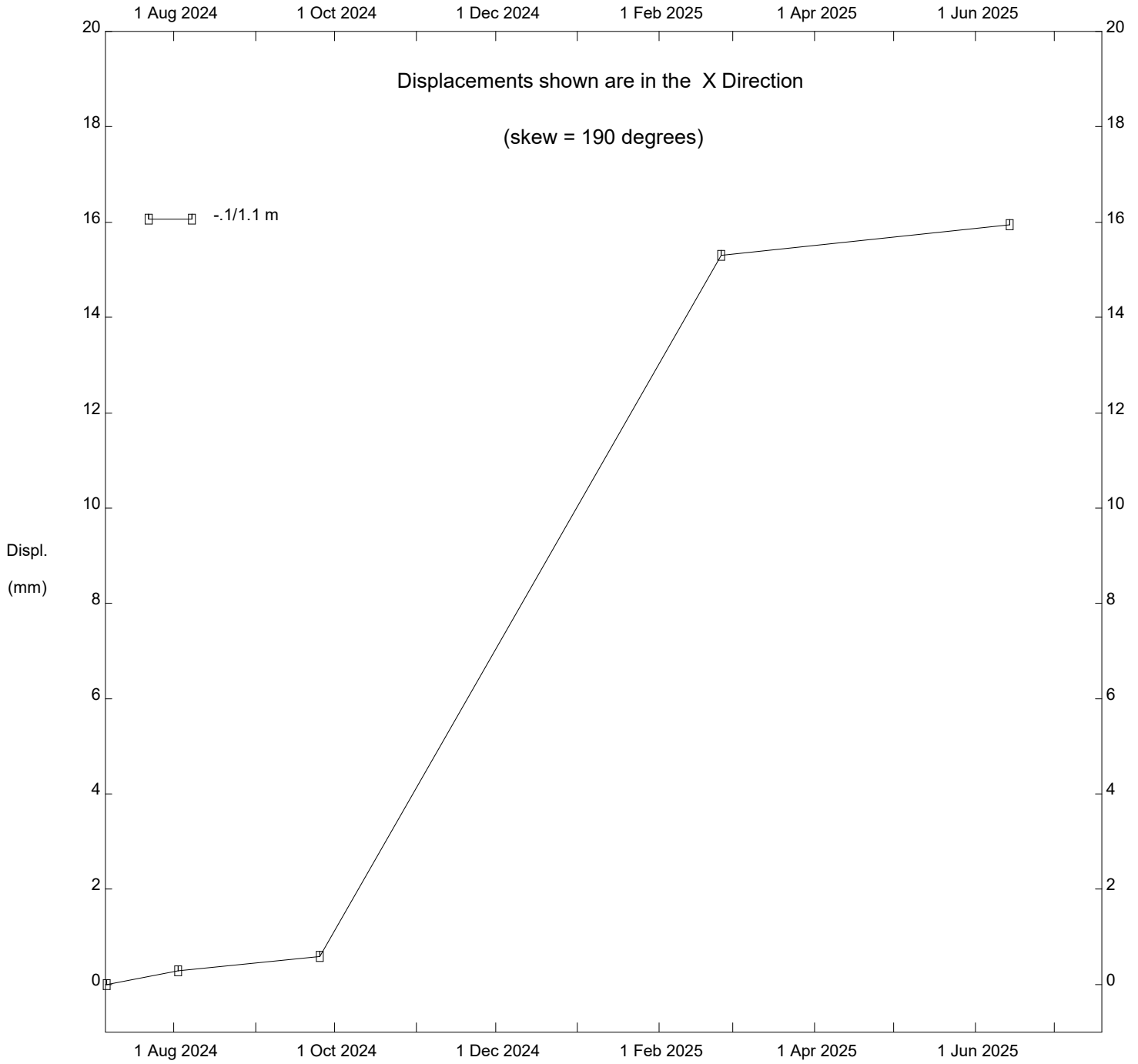
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32123 PH077, Inclinometer TH24-04

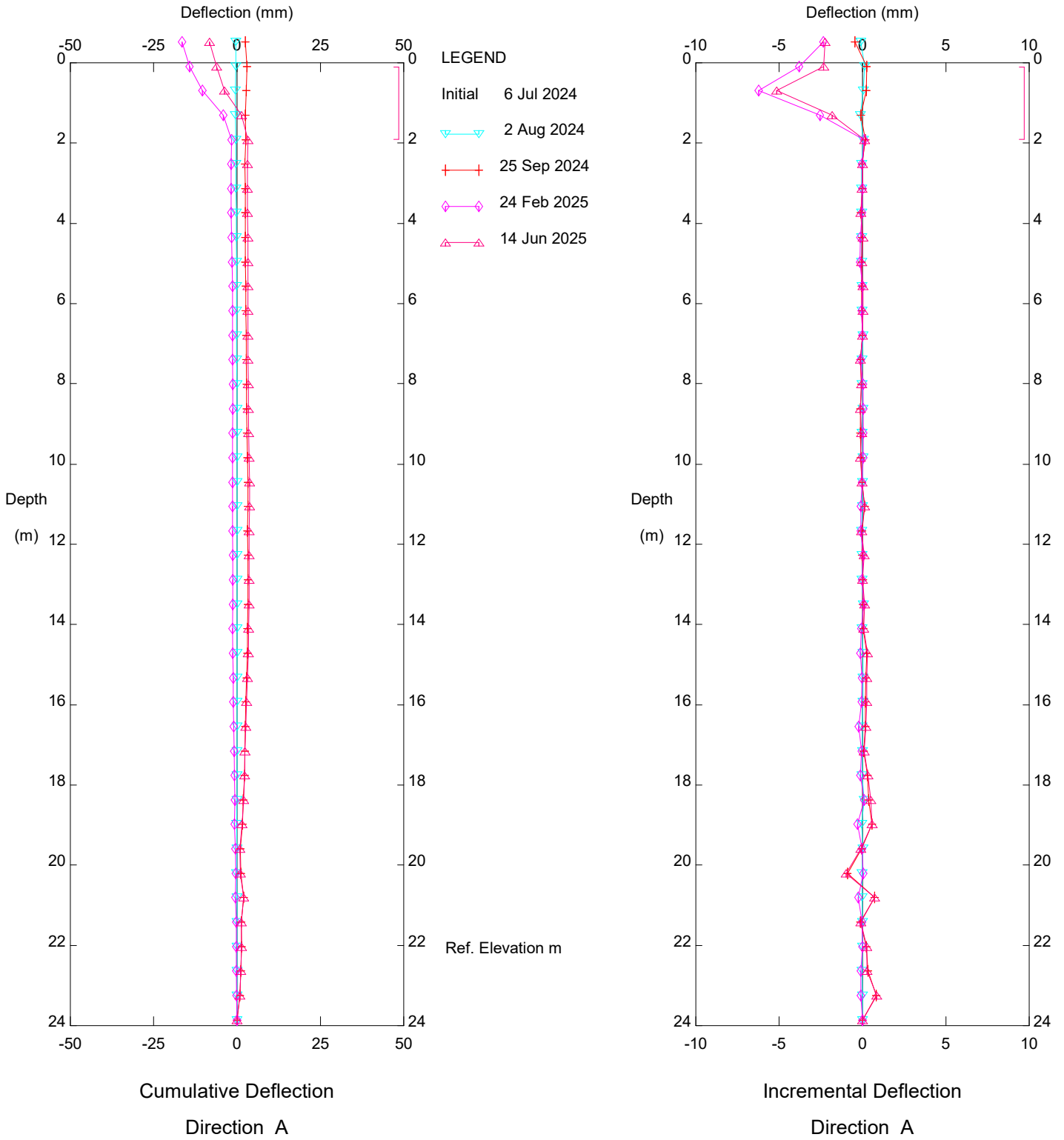
Sets marked \* include zero shift and/or rotation corrections.

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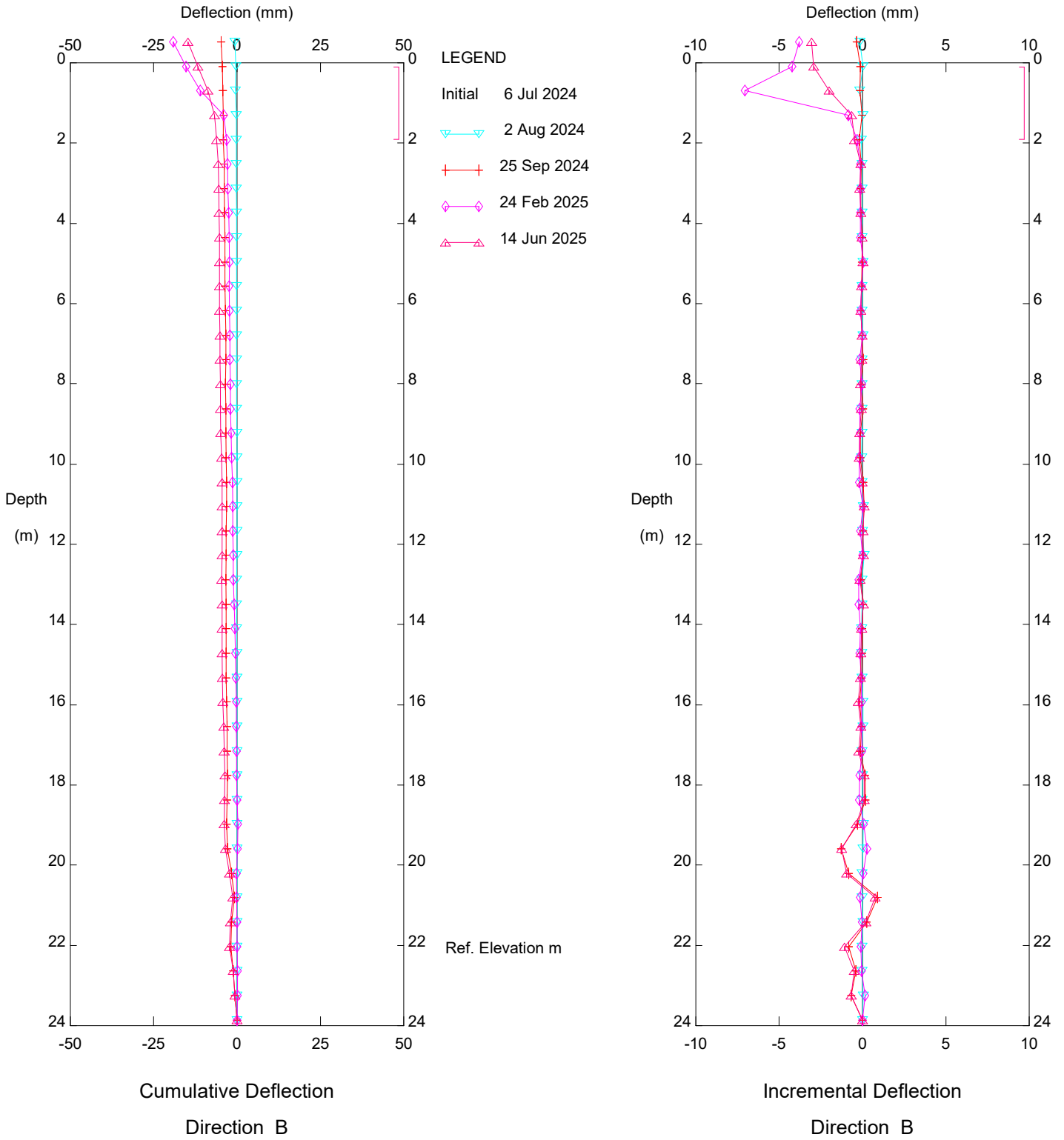
32123 PH077, Inclinator TH24-04

Thurber Engineering Ltd.



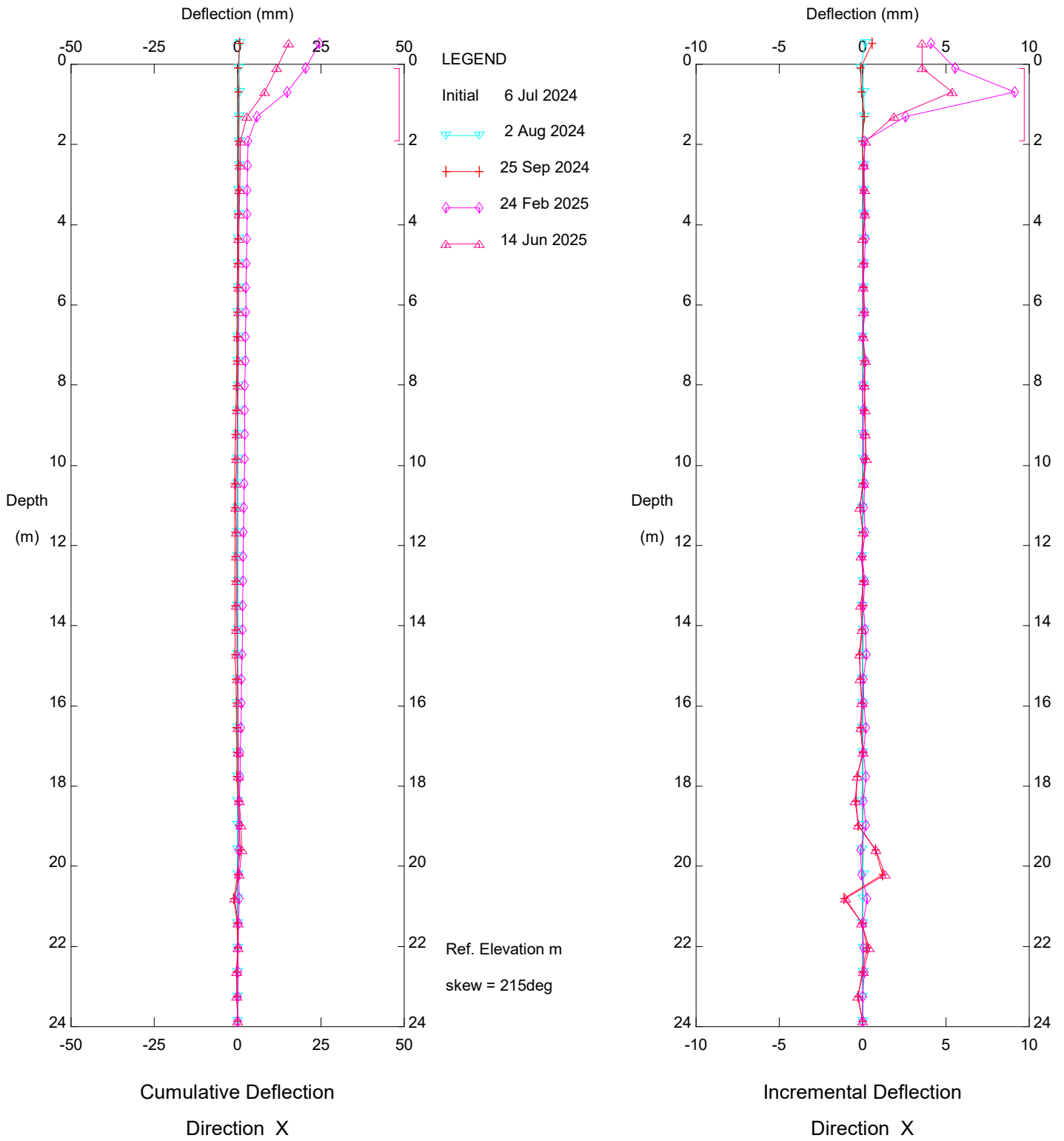
32123 PH077, Inclinometer TH24-06

Thurber Engineering Ltd.



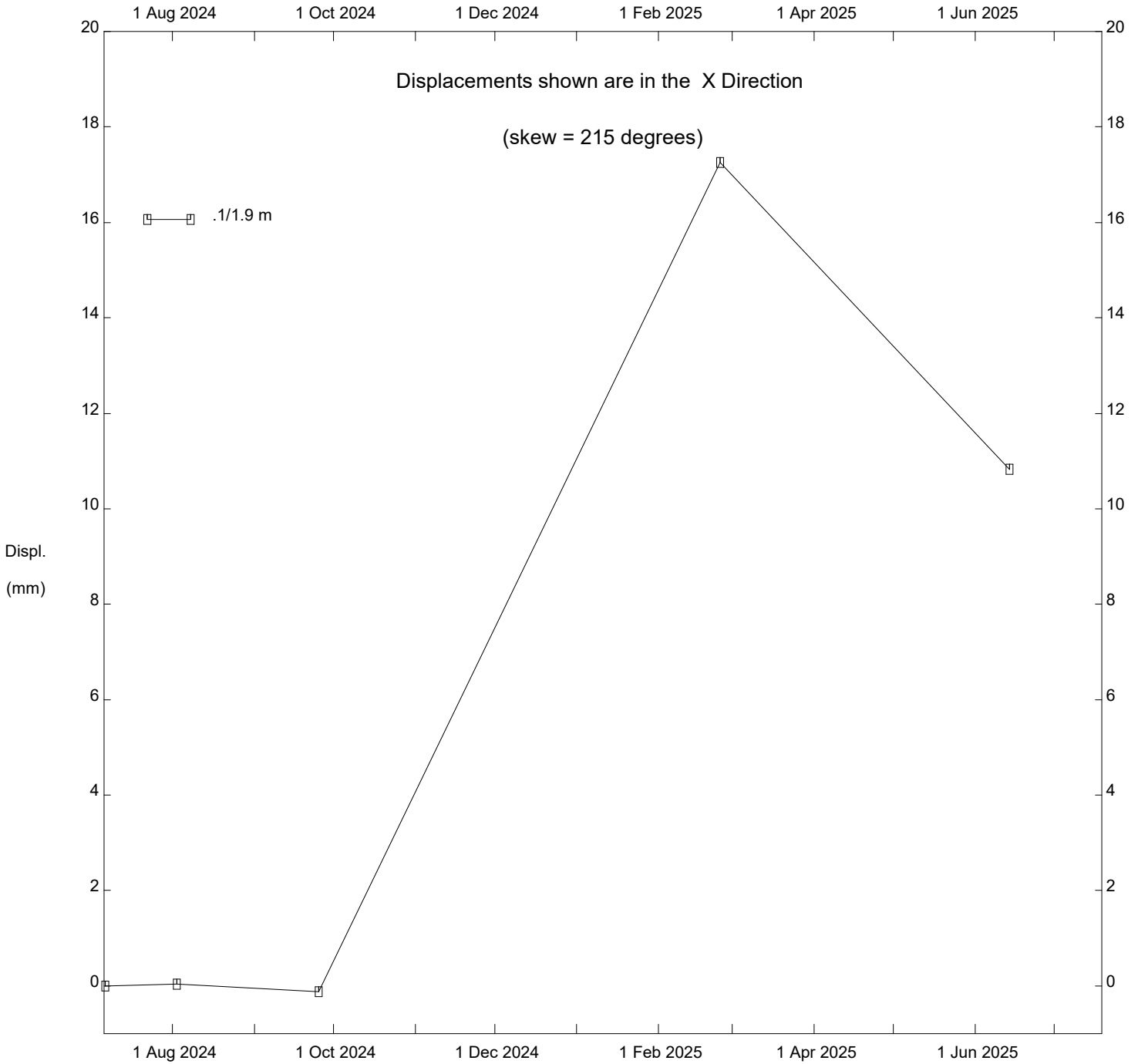
32123 PH077, Inclinometer TH24-06

Thurber Engineering Ltd.



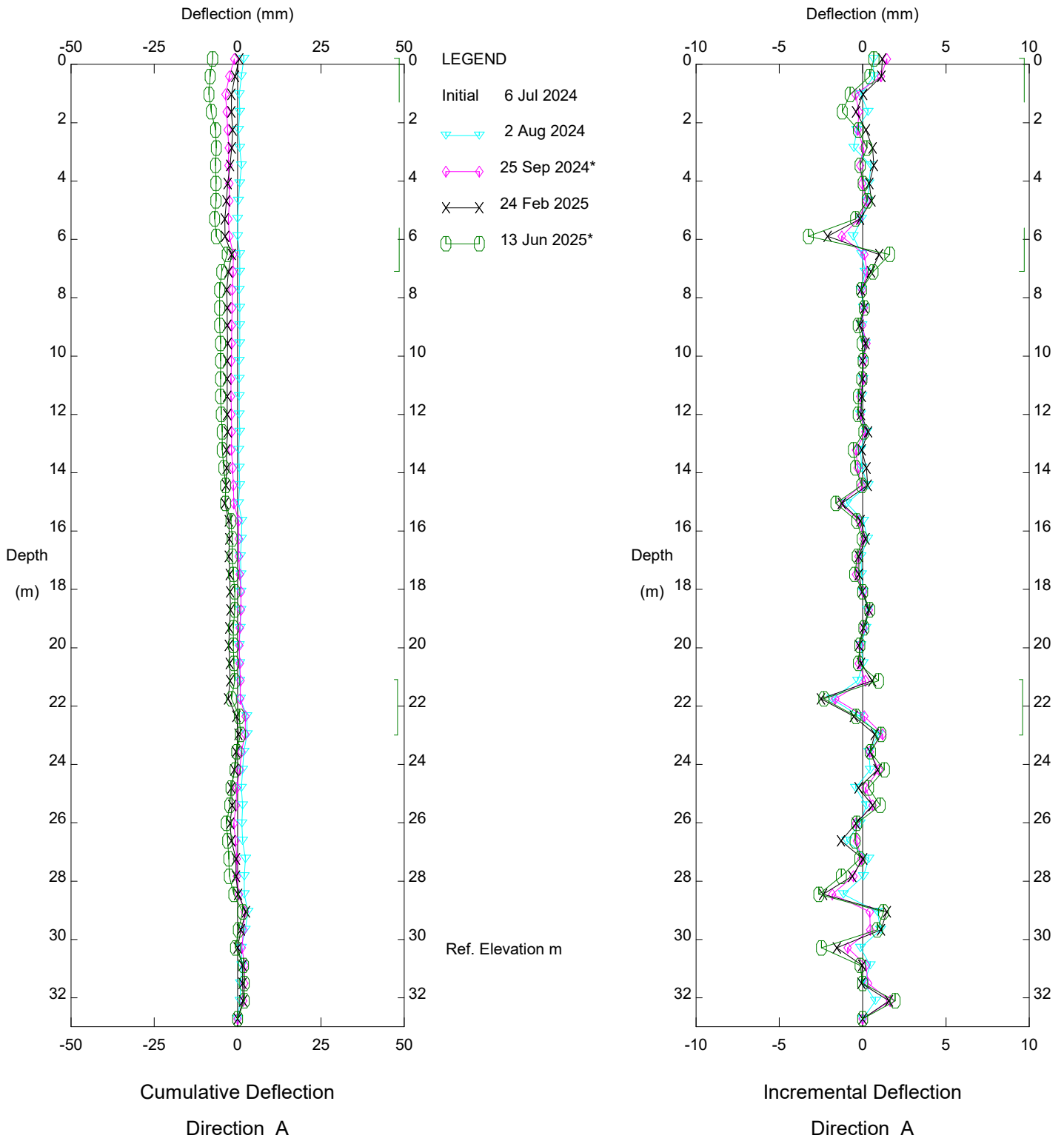
32123 PH077, Inclinometer TH24-06

Thurber Engineering Ltd.



32123 PH077, Inclinator TH24-06

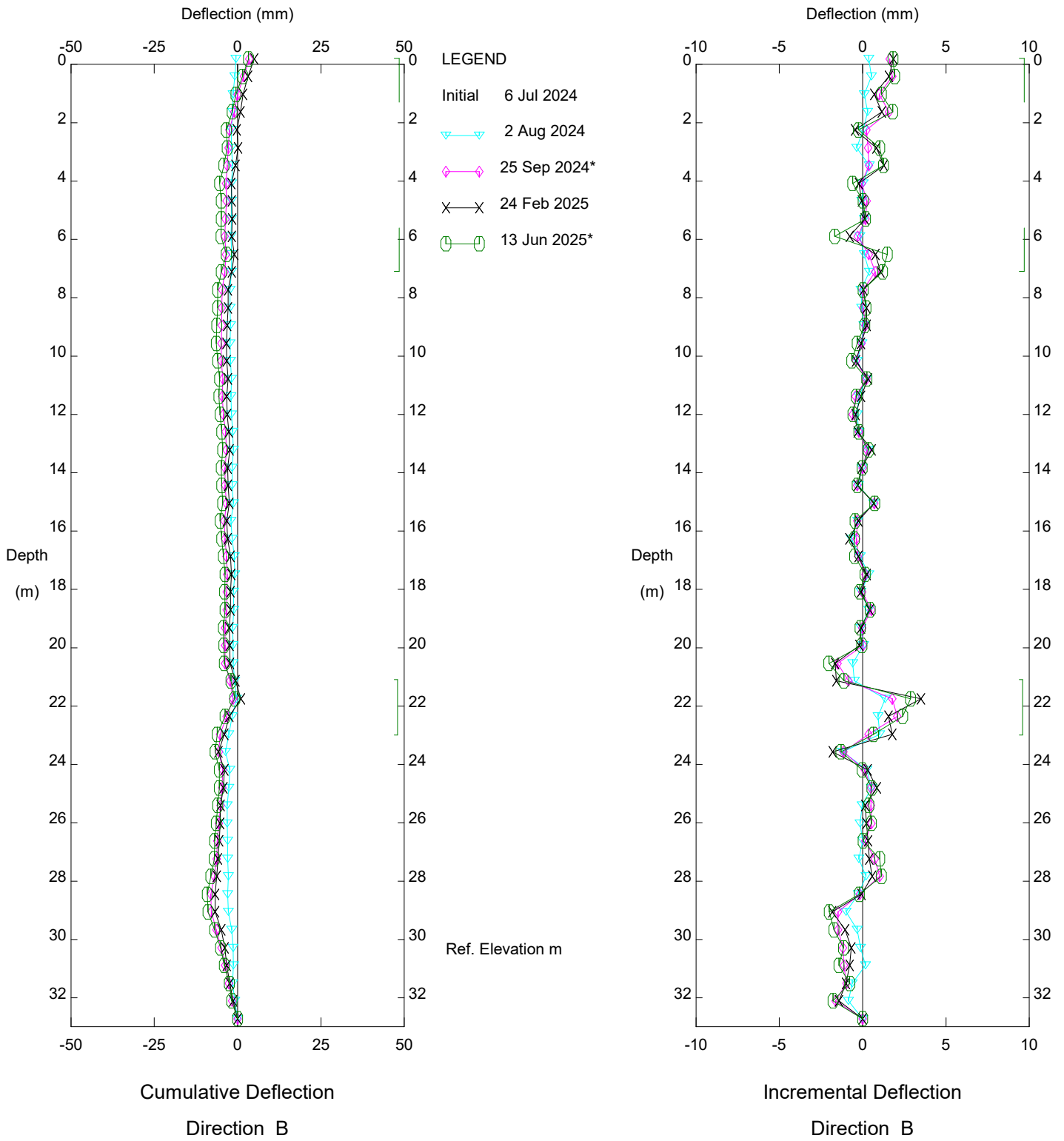
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32123 PH077, Inclinometer TH24-09

Sets marked \* include zero shift and/or rotation corrections.

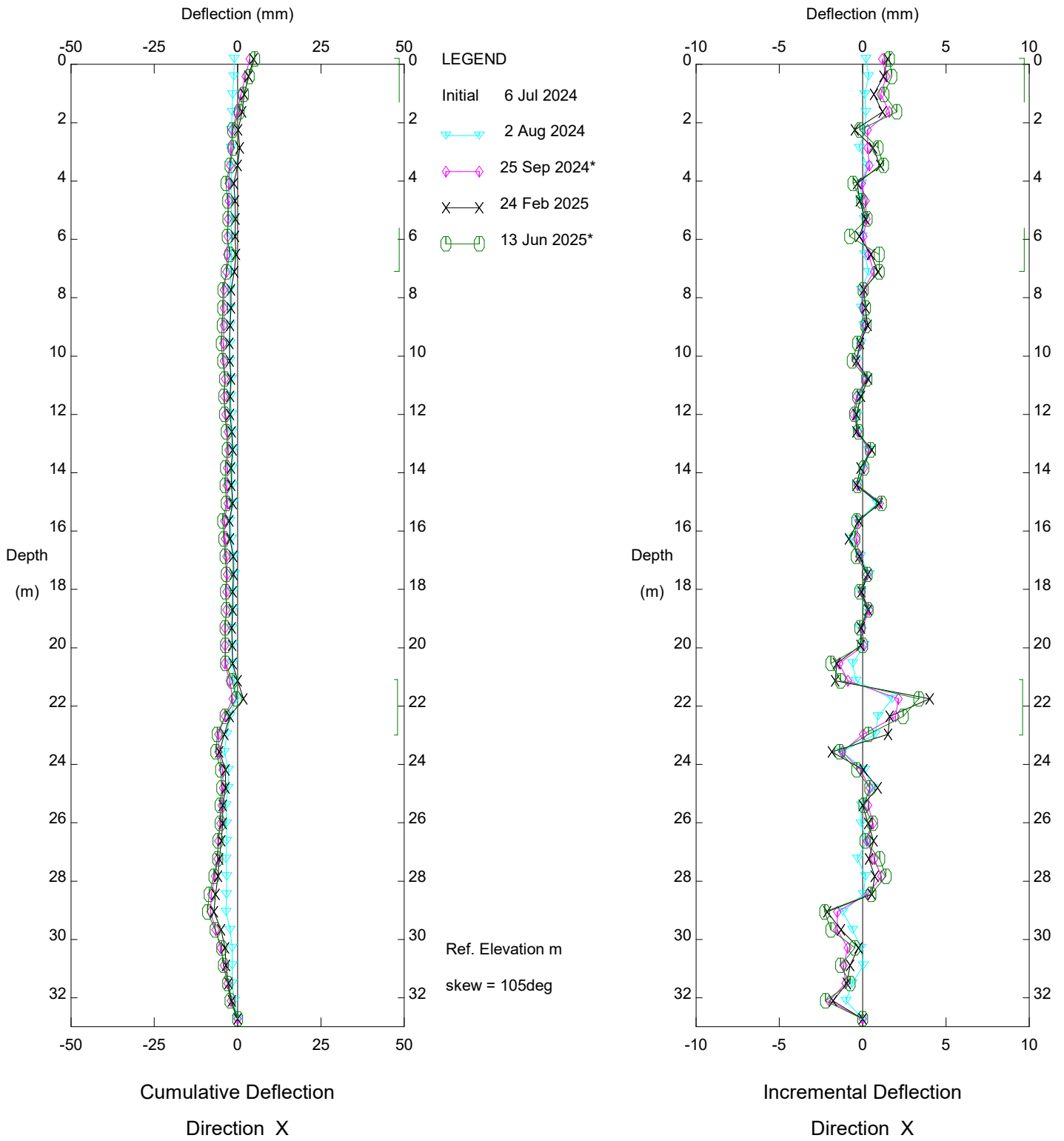
Thurber Engineering Ltd.



32123 PH077, Inclinometer TH24-09

Sets marked \* include zero shift and/or rotation corrections.

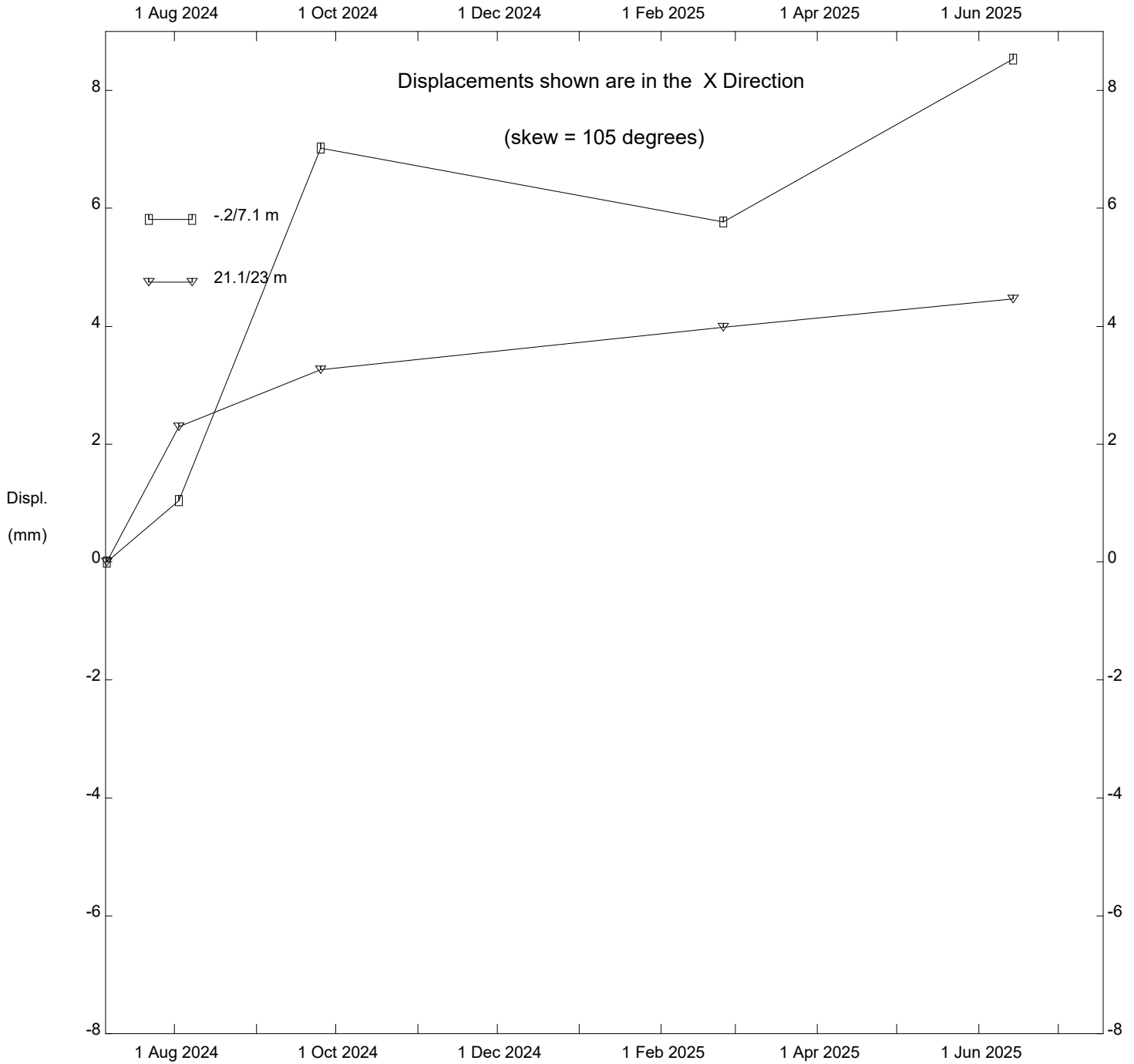
Thurber Engineering Ltd.



32123 PH077, Inclinometer TH24-09

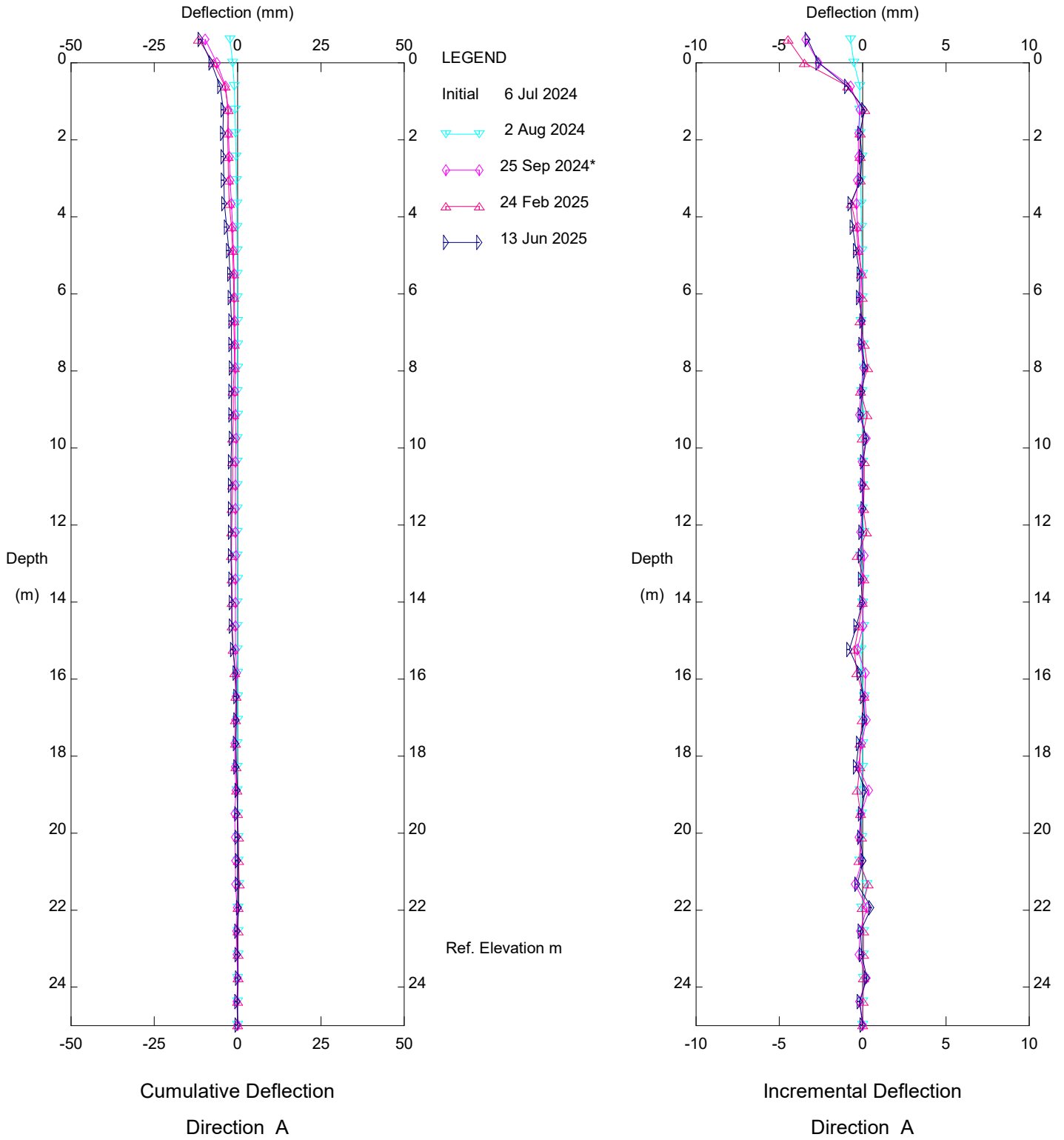
Sets marked \* include zero shift and/or rotation corrections.

Thurber Engineering Ltd.



32123 PH077, Inclinator TH24-09

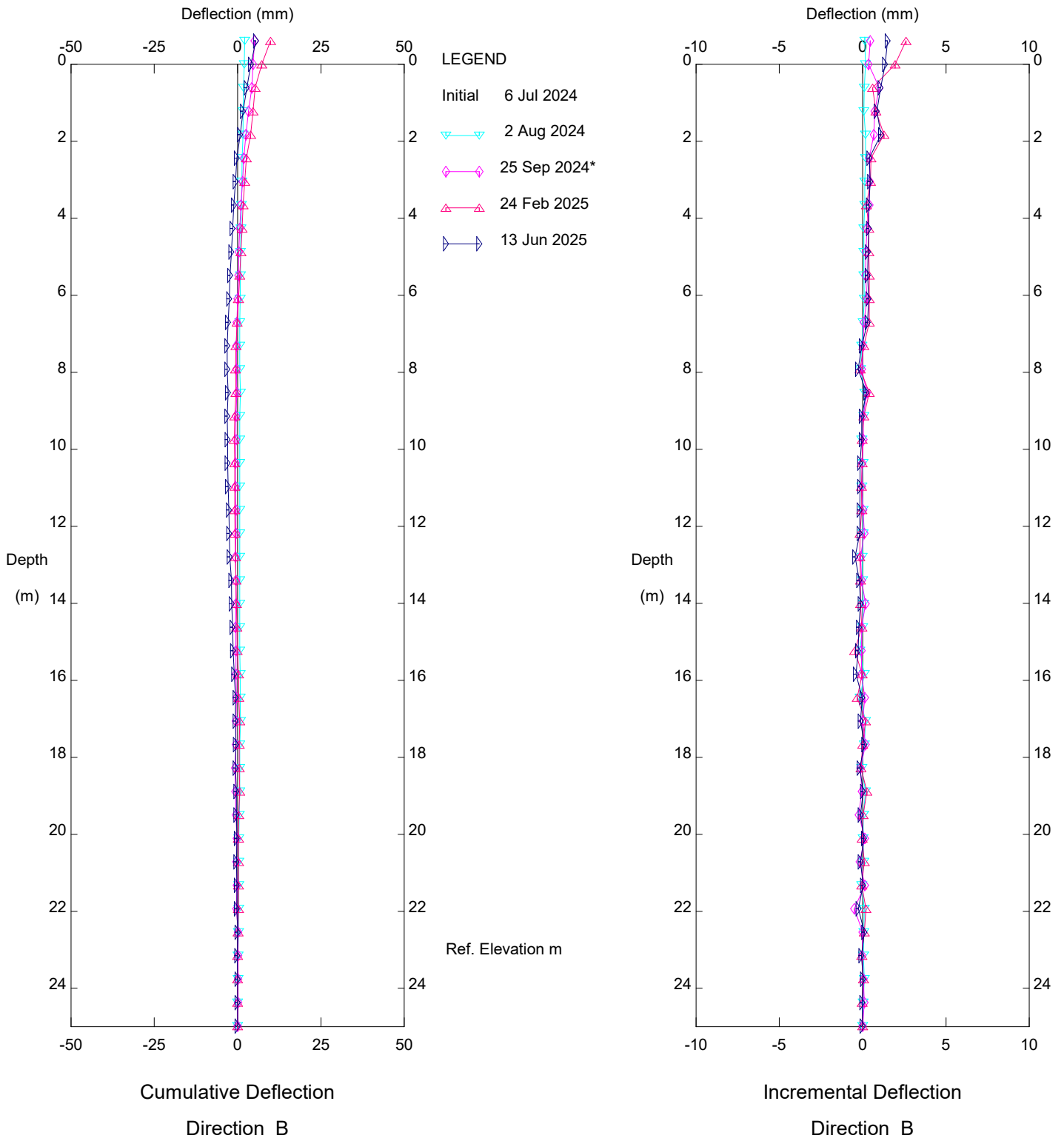
Thurber Engineering Ltd.



32123, Inclinometer TH24-10

Sets marked \* include zero shift and/or rotation corrections.

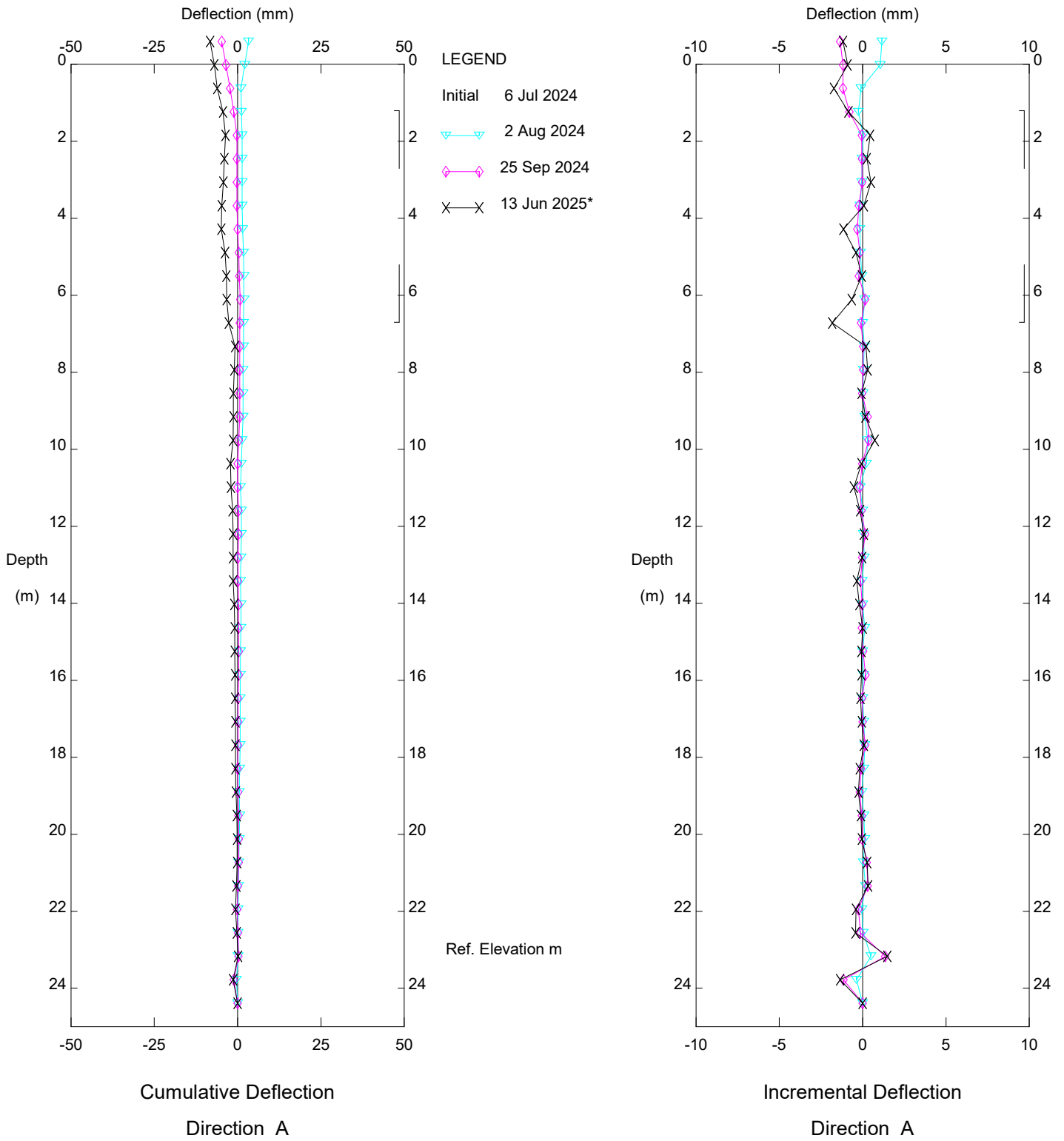
Thurber Engineering Ltd.



32123, Inclinometer TH24-10

Sets marked \* include zero shift and/or rotation corrections.

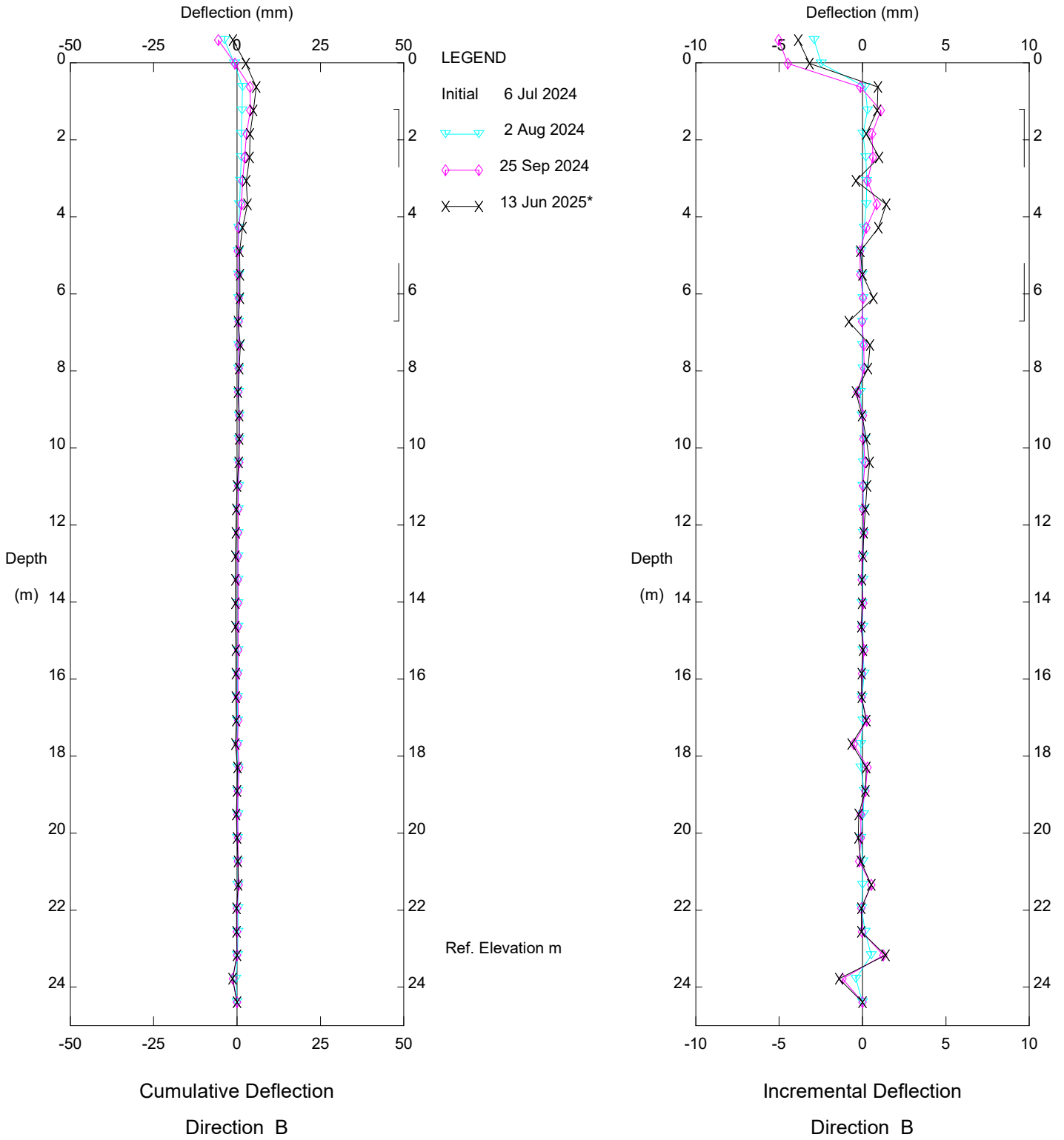
Thurber Engineering Ltd.



32123, Inclinometer TH24-11

Sets marked \* include zero shift and/or rotation corrections.

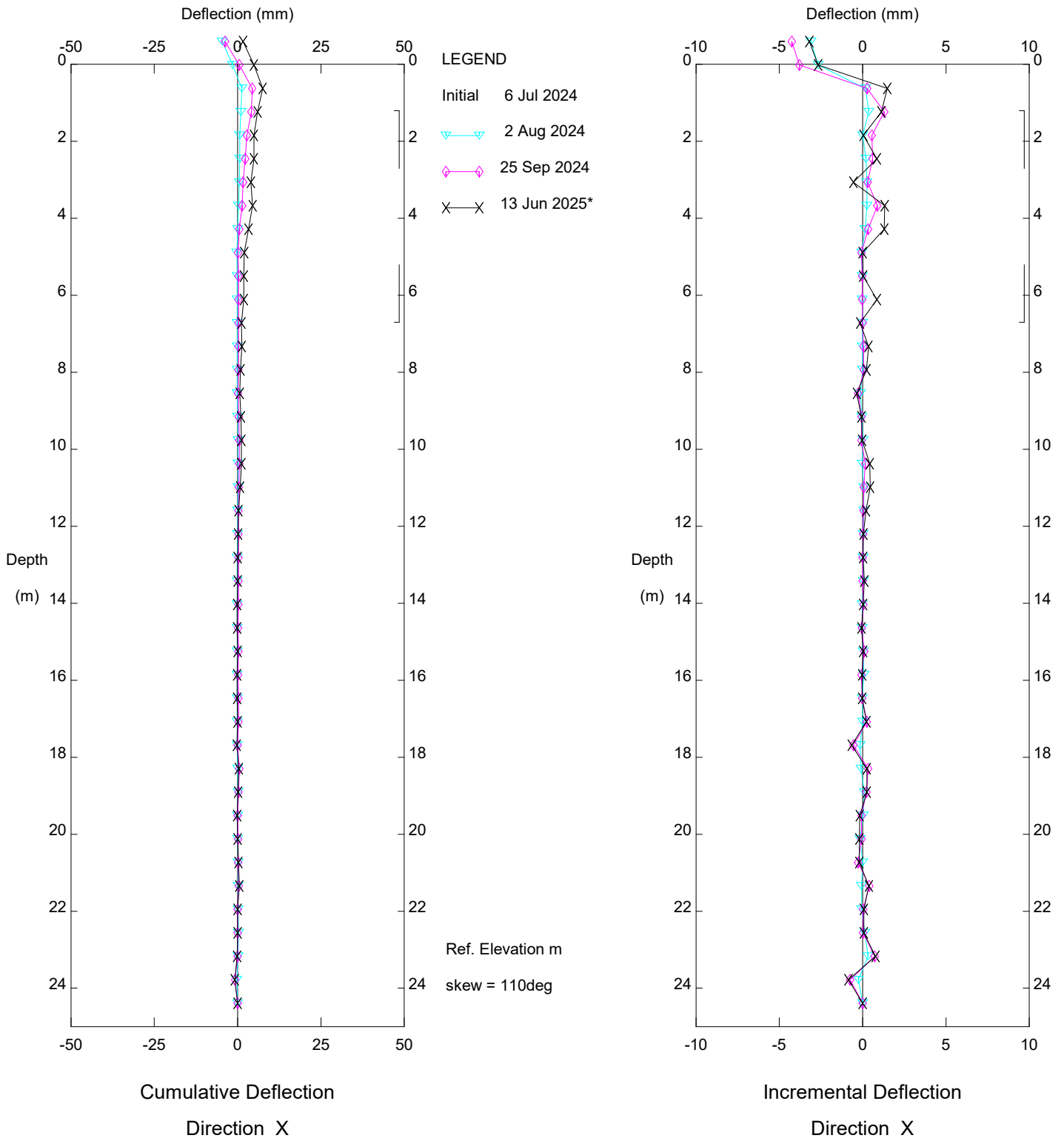
Thurber Engineering Ltd.



32123, Inclinometer TH24-11

Sets marked \* include zero shift and/or rotation corrections.

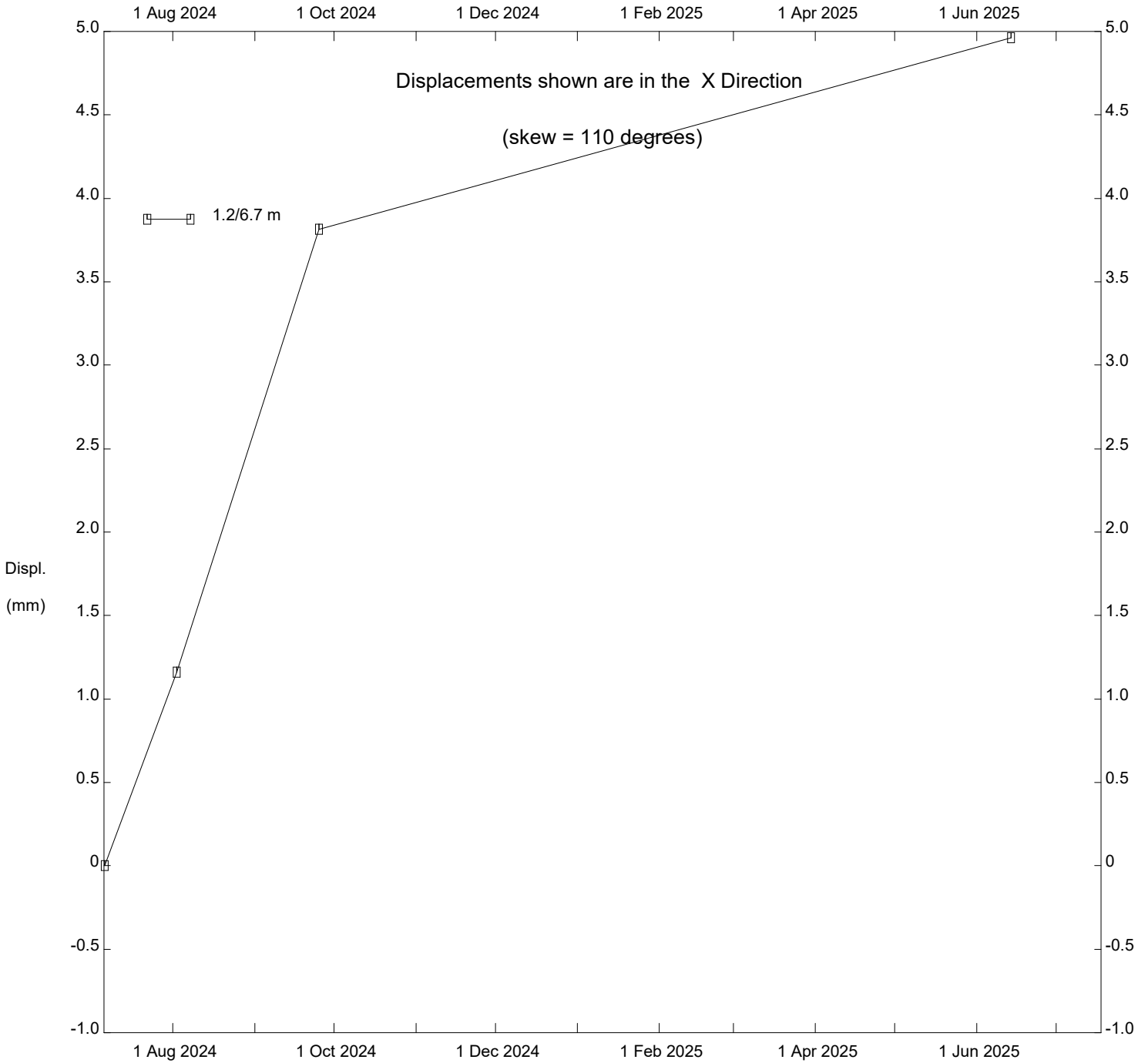
Thurber Engineering Ltd.



32123, Inclinometer TH24-11

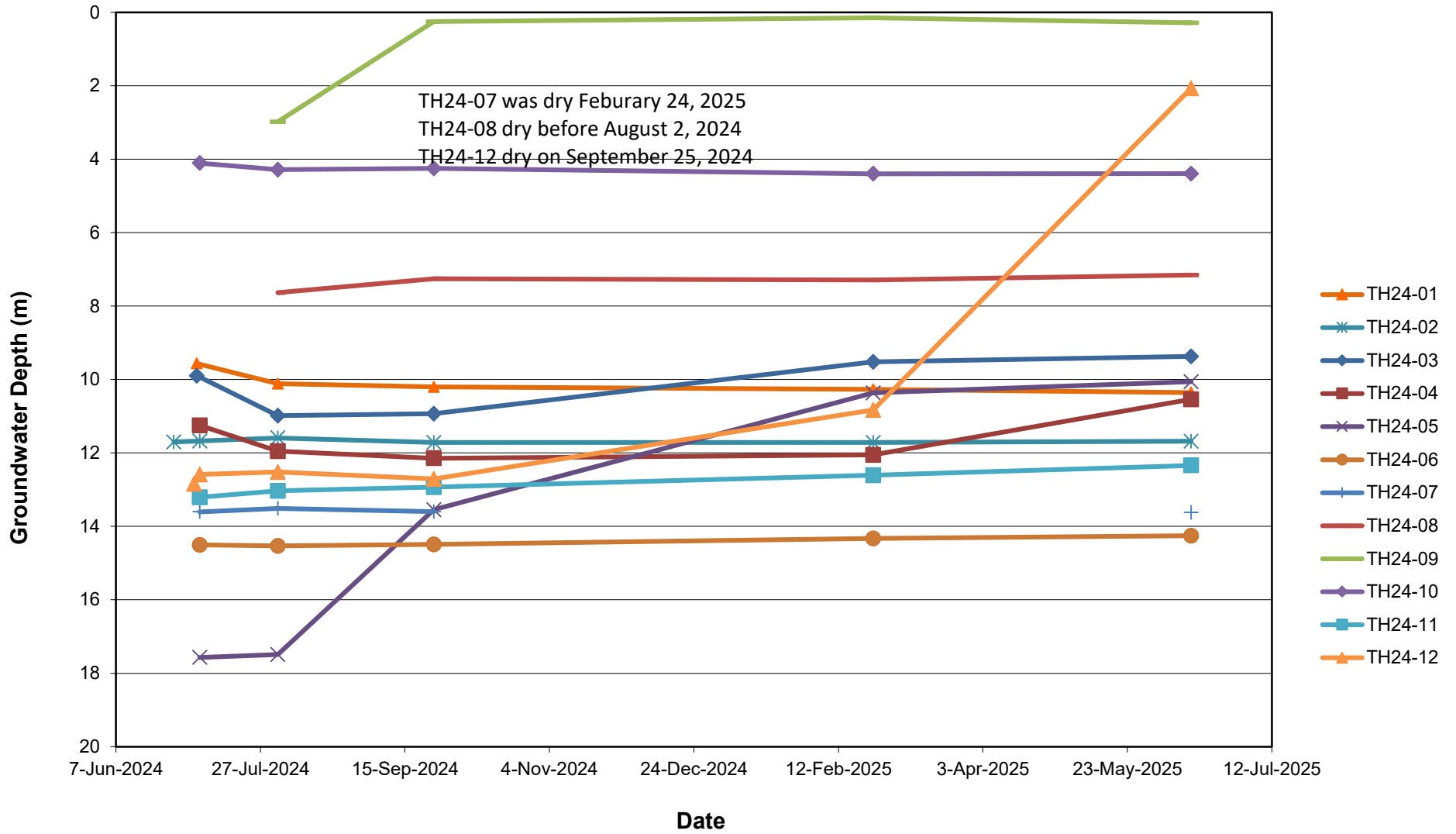
Sets marked \* include zero shift and/or rotation corrections.

Thurber Engineering Ltd.



32123, Inclinator TH24-11

**FIGURE PH077-1  
HWY 682:02 EAST SIDE OF HINES CREEK PIEZOMETER DEPTHS**



**FIGURE PH077-2  
HWY 682:02 EAST SIDE OF HINES CREEK PIEZOMETER ELEVATIONS**

