

臺中市霧峰區豐正段 777 地號等五筆土地測
量、地質鑽探等調查作業

測量成果報告書

委託單位：吉歐特工程有限公司
測量廠商：中興測量有限公司

中華民國 111 年 12 月

公 共 工 程 專 業 技 師 簽 證 報 告			
一	案 名	名稱：臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業	
		案號：112a006	
二	簽證技師	姓名：王 焱	
		科別：測量科	
		執業執照字號：技執字第 007832 號	
三	簽證法令依據	1.公共工程專業技師簽證規則 2.國土測繪法第四十一條暨技師法第十三條第三項規定	
四	委託者	名稱：吉歐特工程有限公司	
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五	委託事項	1. 控制測量 2. 導線測量 3. 地形測量 4. 地籍圖套繪 5. 測量成果報告書	委託日期： 111 年 12 月 14 日
六	受委託廠商	名稱：中興測量有限公司	
		地址：臺中市西區忠仁街 159 號	
		電話：04-22242788	電話：04-22242168
七	簽證說明	簽證範圍： 依「委託事項」辦理之 相關測量成果。	執業圖記：
		簽證項目： ☐ 設計 ☐ 監造 ☒ 其他	
		簽證內容： 詳細內容如本測量成果 簿內文所載。	
		簽證意見： 報告書內所有工作項目均依契約(含附件)之各項所要求 辦理。	
八	日期	中華民國 111 年 12 月 29 日	技師簽署：
備註		1.公共工程於發包施工前，應檢附該工程委託相關科別技師辦理設計之簽證報告。 2.公共工程於施工廠商之各期計價、驗收（包括部分驗收）前及招標文件另有規定時，應檢附該工程委託相關科別技師辦理監造之簽證報告。 3. 本表格如不敷使用，得以附件方式表達。	

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第一章、計畫概述

§1-1、工程名稱

臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業
_測量部分成果報告。

§1-2、測量地區與範圍

本項工作計畫辦理範圍為台中市霧峰區豐正段(霧峰區中正路76號)-農藥應用園區內，台中市霧峰區豐正段777、786、787、788、789等五筆地號，以上述地號及外邊界線外擴20公尺(含周邊道路巷弄)為原則。

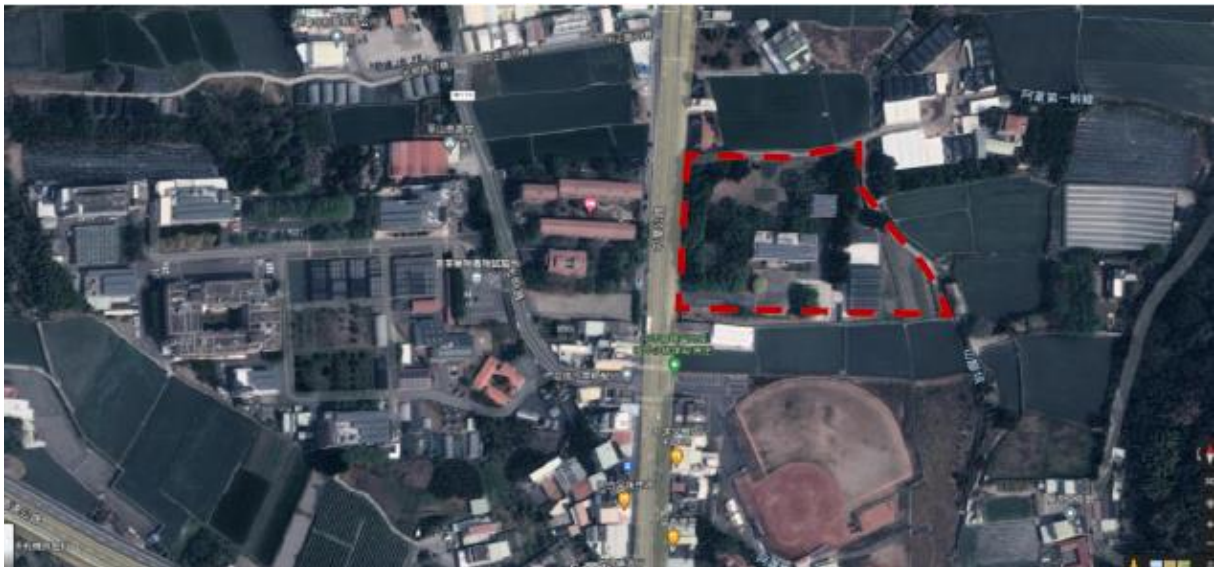


圖 1 測量位置及範圍示意圖

§1-3、工作項目及數量

1. 控制測量、坐標、高程引測。
2. 導線測量：3.06 公頃。
3. 高程測量：3.06 公頃。
4. 1/200 現況地形測量：3.06 公頃。
5. 地籍圖套繪：1 式。
6. 測量成果報告、成果圖及檔案光碟：1 式。

§1-4、測量方法及精度要求

一、控制點引測

平面控制採用台灣地區 TM 二度分帶坐標系統 (TWD97)，依據實際作業情況，本次測量選定測區附近大里地政控制點 GA36、BU2135、BU2136A、BU2137、BU2281、BU2282 共 6 點作為已知平面控制點，並選內政部一等水準點 3104 共 1 點作為高程控制點。

二、導線測量

使用 Trimble S3 全測站經緯儀施測，由附近已知控制點作為基準點引測至測區，採用「測角」、「測距」實施導線點坐標與間接高程測量。依據計算成果，以求解所有導線點的坐標與高程，作為後續地形測量平面與高程基準使用。

依據觀測成果計算所有導線點的坐標與高程，作為後續地形測量平面及高程基準使用。而整個測量之作業程序如後所述：

1. 作業計畫及準備：依照本次作業計畫之目的、用途、範圍及區域之大小、地形之情況，實地踏勘，並依待測及已知點之分布及密度，導線測量精度及測量儀器，擬定相關作業計畫。
2. 距離及角度測量：測量導線之各邊長與相鄰邊之折角。
3. 間接高程測量：測量導線之各邊天頂距。
4. 測定方位角：由起始測站之已知坐標與後視測站已知坐標計算方位角，並據此推算其他各邊之方位角。
5. 點位坐標高程計算：依起點已知坐標值與高程值逐步推算其他各點坐標與高程。

三、水準測量

1. 水準測量主要用於高程控制點引測，採用 1 部精密電子自動水準儀 Trimble Dini03 進行施測，其觀測原理係由自動水準儀照準掃描條碼水準尺讀數進行比對分析，並自動將水準尺前後視讀數及視距資料、點號等自動紀錄於電子記錄器記憶體中。
2. 於測區附近內政部一等水準點 3104，以直接水準測量方式引測使待測點具有正確的高程值，作為後續地形測量的高程依據。

四、1/200 地形測量：

在求得導線點坐標之後，在各導線點上擺設全測站經緯儀，以全測站經緯儀測角、測距方式開始對附近的地物，測量其角度、距離並記錄之。將所記錄得的資料利用角度、距離的相對關係，可以反算出各地物點的坐標。以此類推，直到測區內所有的地物皆已施測完畢並解算出坐標。其測量要點如下所述：

1. 地形等高線(等高線間距為 1 公尺，每 5 公尺 1 條計曲線，並能確實表示地形高低、地貌起伏，並記錄地面材質與界面)。
2. 地形坡度、坡向各地形特徵(含地形、水系、排水、所有地面設施、埋設物及植栽種類(幹徑 20 公分以上之大樹獨立標示)等位置標示。
3. 建築物、橋樑及明顯結構物、電桿、燈具(路燈及矮燈)、自來水制水閥、消防栓及各類人孔蓋、手孔蓋、路面(不同材質需標示分界線)、路緣(路緣需以雙線標示，以顯示不同路緣材質的實際寬度)、集水井(路面尺寸及井底高程)、水溝(含明溝及暗溝或涵管，實際寬度、管徑及溝底高程、流向)、各式箱體位置及實際尺寸、水池、擋土牆(坡頂坡底高程及寬度)、階梯(含每階的寬度及高程)、欄杆(含基座位置)等。

依照前述方式，於實地作業過程中，其地形測繪流程如下：

1. 在已布設完成的圖根點架設儀器，觀測記錄地形地物點的相關資料(及現場繪製包含流水號的草圖)：
 - (1) 流水號(點號)
 - (2) 編碼
 - (3) 覘標高
 - (4) 水平角
 - (5) 天頂距(高低差)
 - (6) 斜距(平距)
2. 依上述之觀測量計算，得出各地形地物點的坐標及高程值。
3. 將地形地物點的坐標及高程值，載入電腦圖形編輯系統(如 AutoCAD)，展點出圖。
4. 根據現場觀測時所繪製的草圖，依流水號的對應整飾底圖。
5. 依底圖編輯、繪製電腦圖形檔。

五、地籍套繪：

完成上述相關測量作業後，為使本計畫能順利推展後續工作，故將所測得之成果圖與地籍圖進行套繪（其界址點正確位置應依地政機關鑑界為準），作業方式如下：

1. 依施測範圍向地政事務所申請相關地籍圖資料。
2. 將地籍圖進行數化作業轉換為數值圖檔。
3. 若現地有地政機關鑑界之點位則須一併施測，並輔以現況固定之人工建築物、圍牆、道路及地類線等位置與地籍圖進行套疊，利用平移、旋轉等參數（不可使用尺度參數，避免造成圖籍面積不吻合），使之對應點匹配，以完成套繪作業。地籍套繪線僅供參考，其界址點正確位置應依地政機關鑑界為準。
4. 若測區所在位置分屬地籍不同段時，或測區周界明顯不吻合時，應採取分區、分段進行局部套繪作業。
5. 根據套繪圖所得之相關資料彙整提供甲方。

§1-5、儀器設備

本計畫各項工作均使用現今最可靠的設備，並且均定期經由國家實驗室進行檢校工作，以獲得最佳之成果；表 1 為本計畫所使用之軟、硬體設備。導線與地形測量採用 1 部 Trimble S3 全測站經緯儀，水準測量採用 1 部 Trimble Dini03 精密水準儀。

表 1 使用之軟、硬體設備一覽表

名稱	型式、功能	數量	備註
編圖及計算用個人電腦	Pentium IV個人電腦	3台	
彩色噴墨繪圖機	HP Designjet Z6200	1台	
彩色雷射印表機	HP Color LaserJet M855 PCL 6	1台	
測量計算軟體	導線計算、地形計算	1套	
Auto-CAD 2015 繪圖軟體	專業繪圖、編輯軟體	3套	
全測站電子測距經緯儀	Trimble S3	1台	
電子自動水準儀	Trimble Dini03	1台	

第二章、控制測量成果

控制點坐標成果表 (TWD97)

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業

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第三章、導線計算及精度分析

導線平差計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業

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導線平差計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業

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點名	觀測角度	方位角	實測距離	縱距差	橫距差	縱坐標	橫坐標
	配賦值		投影距離	配賦值	配賦值		
LA4						2656900.134	219188.606
BU2282	161-00-50.00 -8.90	157-54-10.07	44.349 44.345			2656859.048	219205.287
LA5	253-19-18.00 -8.90	138-54-51.17	83.186 83.178	-62.694 0.003	54.664 -0.003	2656796.357	219259.948
LA6	241-10-00.00 -8.90	212-14-00.27	61.880 61.875	-52.339 0.002	-33.002 -0.002	2656744.021	219226.943
GA36	286-14-50.00 -8.90	273-23-51.37	172.901 172.886	10.246 0.006	-172.582 -0.006	2656754.273	219054.355
BU2137		19-38-32.47	41.334 41.330			2656793.198	219068.248
距離投影尺度因子= 0.999912							
角度不符值 = -35.60 秒				縱線閉合差 = 0.011 公尺			
角度配賦值 = -8.90 秒				橫線閉合差 = -0.012 公尺			
角度觀測精度 = 17.80 √N 秒				位置閉合差 = 0.016 公尺			
導線距離總和 = 317.939 公尺				導線精度 = 1 / 19457			

間接高程計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業

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觀測距離=0.60km，已知高程差=1.351m，觀測高程差=1.347m，閉合差=0.004m，精度=5.14√K

第四章、水準計算及精度分析

水準測段往返觀測精度統計表

工程名稱：臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業

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水準觀測計算表

工程名稱: 臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業

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第五章、數值地形測量成果

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 1 頁 共 47 頁

測站 = L3		N = 2656811.901		E = 219169.157		EL = 91.400			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.522 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 259-29-59		至後視距離 = 102.628 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
BU2137		0-00-00	89-43-25	102.637	1.657	2656793.197	219068.240	91.761	2
1		75-55-23	66-28-51	28.839		2656835.948	219158.159		301
2		72-16-50	82-57-34	26.189		2656834.803	219156.867		201
3		40-12-24	80-23-20	15.351		2656819.401	219156.011		200
4		37-49-51	49-53-38	17.638		2656818.095	219157.172		300
5		67-28-03	82-06-56	19.704		2656828.264	219158.518		311
6		61-43-57	80-11-40	17.537		2656825.374	219158.336		310
7		81-58-46	86-07-12	25.014		2656835.565	219161.230		331
8		73-26-27	84-39-07	18.344		2656828.166	219160.848		330
9		19-57-00	78-04-03	54.234		2656820.613	219116.815		300
10		152-09-21	93-16-26	12.813		2656819.837	219179.190		54
11		133-25-01	92-08-05	12.715		2656822.567	219176.062		54
12		128-55-54	91-24-13	21.932		2656831.182	219179.596		54
13		134-38-23	90-57-51	26.898		2656834.160	219184.250		54
14		124-06-35	91-56-13	18.188		2656828.557	219176.437		54
15		118-06-34	92-30-20	23.657		2656834.428	219176.307		54
16		116-32-58	91-19-57	39.192		2656849.555	219179.989		54
17		113-05-40	91-20-08	34.626		2656845.684	219176.705		54
18		114-49-56	90-56-20	44.858		2656855.357	219180.260		54
19		111-25-30	91-20-48	41.333		2656852.474	219176.988		54
20		110-20-35	91-15-04	46.875		2656858.075	219177.168		54
21		108-31-25	89-30-47	59.290		2656870.608	219177.432		54
22		108-04-34	90-17-05	63.857		2656875.200	219177.576		54
23		107-42-32	90-45-27	68.583		2656879.936	219177.762		54
24		107-20-44	90-40-30	74.085		2656885.453	219177.987		54
25		107-05-14	90-30-29	78.051		2656889.434	219178.110		54
L3A		108-47-39	89-54-31	30.558	1.629	2656842.139	219173.565	91.342	2
1		84-37-50	89-15-54	40.294		2656850.656	219158.140		601
2		105-14-18	88-49-26	38.069		2656849.832	219172.301		600
3		30-41-33	99-19-36	9.814	.000	2656815.244	219160.068	91.332	0
4		55-01-31	97-36-28	12.091	.000	2656820.305	219160.613	91.322	0
5		65-56-46	96-02-33	15.253	.000	2656824.393	219160.554	91.317	0
6		70-14-55	95-28-42	16.612	.000	2656826.185	219160.826	91.336	0
7		68-39-27	95-15-33	17.345	.000	2656826.573	219160.045	91.332	0
8		67-59-54	94-25-03	18.155	.000	2656827.167	219159.431	91.524	0
9		67-15-26	93-53-27	18.350	.000	2656827.213	219159.121	91.677	0
10		67-01-35	93-16-48	18.833	.000	2656827.584	219158.787	91.845	0
11		66-30-54	92-47-00	19.110	.000	2656827.728	219158.488	91.994	0
12		65-46-10	92-14-31	19.395	.000	2656827.828	219158.116	92.164	0
13		64-42-11	91-39-28	19.601	.000	2656827.792	219157.697	92.355	0
14		76-36-12	94-35-16	20.129	.000	2656830.245	219161.029	91.312	0
15		79-36-32	94-07-20	22.026	.000	2656832.426	219161.323	91.339	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 2 頁 共 47 頁

測站 = L3		N = 2656811.901		E = 219169.157		EL = 91.400			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.522 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 259-29-59		至後視距離 = 102.628 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
16		80-44-28	93-56-30	22.991	.000	2656833.487	219161.403	91.342	0
17		81-30-29	93-48-23	24.211	.000	2656834.743	219161.295	91.315	0
18		82-44-30	93-37-32	25.207	.000	2656835.859	219161.484	91.328	0
19		83-40-28	93-30-20	25.825	.000	2656836.574	219161.696	91.343	0
20		84-45-11	93-20-12	27.719	.000	2656838.534	219161.647	91.309	0
21		85-42-39	93-11-43	28.617	.000	2656839.527	219161.863	91.327	0
22		86-41-04	93-01-59	30.472	.000	2656841.450	219161.890	91.310	0
23		87-38-51	92-52-16	32.117	.000	2656843.174	219162.022	91.314	0
24		88-23-17	92-45-38	32.878	.000	2656844.010	219162.266	91.339	0
25		88-35-19	92-33-12	35.061	.000	2656846.173	219161.928	91.360	0
26		88-46-52	92-24-28	37.302	.000	2656848.393	219161.587	91.355	0
27		88-48-28	92-20-17	38.467	.000	2656849.538	219161.368	91.353	0
28		88-03-37	92-20-18	38.580	.000	2656849.544	219160.853	91.348	0
29		87-14-54	92-20-21	38.716	.000	2656849.554	219160.289	91.342	0
30		86-32-33	92-20-20	38.785	.000	2656849.509	219159.810	91.340	0
31		85-44-09	92-20-20	38.821	.000	2656849.409	219159.272	91.338	0
32		84-35-26	92-21-54	38.085	.000	2656848.496	219158.726	91.351	0
33		83-37-36	92-21-26	38.075	.000	2656848.306	219158.115	91.356	0
34		83-04-52	92-21-27	37.890	.000	2656848.023	219157.824	91.364	0
35		350-20-07	89-45-15	79.000	1.600	2656784.668	219095.000	91.662	0
36		351-19-29	89-45-19	83.455	1.600	2656784.489	219090.333	91.679	0
37		354-00-15	89-47-24	84.059	1.600	2656788.032	219088.559	91.631	0
38		355-08-47	89-48-31	87.509	1.600	2656788.730	219084.772	91.615	0
39		355-25-00	89-47-30	91.605	1.600	2656788.063	219080.709	91.656	0
40		353-28-20	89-47-14	93.999	1.600	2656784.374	219079.279	91.672	0
41		352-21-50	89-45-08	90.527	1.600	2656783.722	219083.128	91.714	0
42		351-29-46	89-45-12	87.143	1.600	2656783.524	219086.765	91.698	0
43		353-09-24	89-50-38	87.147		2656785.922	219085.973		54
44		353-44-58	89-32-48	89.499		2656786.107	219083.458		54
46		354-02-03	89-47-01	94.383	1.600	2656785.148	219078.646	91.679	0
1		357-46-07	89-47-28	95.002	1.600	2656790.964	219076.491	91.669	0
2		83-03-42	92-04-09	43.241	.000	2656853.127	219156.207	91.361	0
3		83-04-05	91-52-22	47.429	.000	2656857.127	219154.956	91.372	0
4		83-21-28	91-52-22	47.412	.000	2656857.182	219155.190	91.373	0
5		83-19-52	92-04-46	43.011	.000	2656852.968	219156.469	91.362	0
6		81-37-36	92-04-47	42.851	.000	2656852.421	219155.305	91.367	0
7		81-19-03	92-17-44	39.150	.000	2656848.847	219156.303	91.354	0
8		80-53-18	92-18-43	38.577	.000	2656848.210	219156.219	91.366	0
9		80-53-15	92-08-28	41.962	.000	2656851.401	219155.082	91.355	0
10		80-53-18	92-00-24	44.426	.000	2656853.724	219154.255	91.367	0
11		80-53-16	91-53-15	46.607	.000	2656855.780	219153.522	91.387	0
12		81-18-50	91-51-17	47.290	.000	2656856.541	219153.624	91.392	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 3 頁 共 47 頁

測站 = L3		N = 2656811.901		E = 219169.157		EL = 91.400			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.522 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 259-29-59		至後視距離 = 102.628 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
13		81-43-05	91-49-39	47.726	.000	2656857.062	219153.798	91.400	0
14		92-00-14	92-22-24	37.844	.000	2656849.297	219163.571	91.355	0
15		92-54-07	92-22-27	37.871	.000	2656849.407	219164.154	91.354	0
16		92-56-21	92-20-39	38.194	.000	2656849.731	219164.136	91.360	0
17		92-56-17	92-01-37	38.780	.000	2656850.319	219164.057	91.551	0
18		92-56-16	91-46-18	39.171	.000	2656850.713	219164.004	91.711	0
19		93-39-52	92-21-00	38.217	.000	2656849.814	219164.612	91.355	0
20		94-33-36	92-21-24	38.092	.000	2656849.756	219165.218	91.356	0
21		94-09-06	92-31-36	35.772	.000	2656847.419	219165.205	91.345	0
22		93-35-36	92-31-34	35.456	.000	2656847.065	219164.897	91.360	0
23		92-55-59	92-31-33	35.285	.000	2656846.845	219164.515	91.367	0
24		92-53-29	92-45-58	32.402	.000	2656843.980	219164.872	91.359	0
25		91-32-24	92-46-01	32.386	.000	2656843.854	219164.119	91.359	0
26		90-27-55	92-46-00	32.505	.000	2656843.871	219163.500	91.353	0
27		94-13-09	92-46-29	32.246	.000	2656843.916	219165.633	91.361	0
28		95-13-55	92-48-42	31.568	.000	2656843.298	219166.262	91.374	0
29		95-08-49	92-34-59	31.899		2656843.628	219166.184		33
30		96-24-26	92-49-39	31.321	.000	2656843.104	219166.924	91.377	0
31		97-40-36	92-49-43	31.332	.000	2656843.157	219167.615	91.376	0
32		99-00-33	92-51-23	31.022	.000	2656842.874	219168.351	91.376	0
33		100-34-51	92-52-40	30.512	.000	2656842.374	219169.200	91.390	0
34		102-27-05	92-52-48	30.943	.000	2656842.787	219170.209	91.368	0
35		104-56-29	92-52-54	31.088	.000	2656842.856	219171.561	91.359	0
36		107-15-32	92-52-23	31.599	.000	2656843.241	219172.871	91.338	0
37		110-44-26	92-52-20	31.818	.000	2656843.173	219174.806	91.328	0
38		111-10-31	93-06-32	29.701	.000	2656841.045	219174.651	91.312	0
39		111-53-22	93-20-43	27.045	.000	2656838.368	219174.489	91.344	0
40		112-24-41	93-31-39	25.694	.000	2656836.994	219174.450	91.341	0
41		112-54-38	93-43-37	24.382	.000	2656835.663	219174.386	91.337	0
42		113-30-11	93-57-57	22.888	.000	2656834.149	219174.294	91.339	0
43		114-24-56	94-15-33	21.394	.000	2656832.610	219174.288	91.333	0
44		115-06-58	94-33-37	20.015	.000	2656831.207	219174.192	91.331	0
45		116-05-53	94-51-59	18.728	.000	2656829.874	219174.175	91.334	0
46		117-20-22	95-51-09	15.583	.000	2656826.738	219173.648	91.333	0
47		120-07-35	96-17-58	14.529	.000	2656825.503	219174.008	91.328	0
48		123-15-20	97-16-17	12.536	.000	2656823.368	219173.967	91.336	0
49		125-16-25	98-29-48	10.737	.000	2656821.543	219173.607	91.336	0
50		134-17-43	100-57-53	8.321	.000	2656818.690	219173.701	91.340	0
51		143-32-54	103-43-06	6.648	.000	2656816.620	219173.566	91.346	0
52		157-58-07	106-55-39	5.437	.000	2656814.698	219173.542	91.339	0
53		183-43-14	109-40-12	4.689	.000	2656812.422	219173.542	91.344	0
54		215-17-39	108-57-37	4.801	.000	2656809.997	219173.279	91.362	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 4 頁 共 47 頁

測站 = L3		N = 2656811.901		E = 219169.157		EL = 91.400			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.522 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 259-29-59		至後視距離 = 102.628 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
55		237-39-52	106-15-34	5.662	.000	2656807.915	219172.853	91.337	0
56		212-42-58	124-51-56	2.682	.000	2656811.069	219171.194	91.389	0
57		146-50-51	120-55-58	2.975	.000	2656813.662	219171.003	91.393	0
58		125-05-10	104-41-37	6.054	.000	2656817.226	219171.593	91.387	0
59		117-50-45	99-20-11	9.418	.000	2656820.771	219171.928	91.394	0
60		113-38-20	96-57-29	12.646	.000	2656824.125	219172.010	91.390	0
61		111-23-09	95-32-12	15.858	.000	2656827.401	219172.138	91.392	0
62		110-24-50	94-35-35	19.202	.000	2656830.755	219172.452	91.385	0
63		109-47-44	94-02-14	22.001	.000	2656833.559	219172.702	91.373	0
64		109-38-31	93-42-23	24.009	.000	2656835.555	219172.964	91.370	0
65		109-26-50	93-20-53	26.624	.000	2656838.156	219173.291	91.367	0
66		109-10-16	93-05-00	29.315	.000	2656840.839	219173.570	91.346	0
67		105-58-18	93-04-36	28.756	.000	2656840.485	219171.895	91.379	0
68		105-58-26	93-33-31	24.661	.000	2656836.402	219171.505	91.392	0
69		105-58-23	93-47-46	23.071	.000	2656834.816	219171.353	91.395	0
70		105-58-23	94-12-00	20.692	.000	2656832.443	219171.125	91.407	0
71		105-58-24	94-55-07	17.467	.000	2656829.224	219170.817	91.425	0
72		105-58-30	96-17-19	13.617	.000	2656825.374	219170.448	91.431	0
73		105-58-32	98-34-07	10.019	.000	2656821.763	219170.102	91.429	0
74		105-58-35	102-18-12	7.000	.000	2656818.709	219169.810	91.431	0
75		105-58-35	108-00-31	4.832	.000	2656816.475	219169.596	91.428	0
76		105-58-46	122-37-10	2.790	.000	2656814.240	219169.381	91.418	0
77		57-37-52	113-37-56	3.707	.000	2656814.390	219166.847	91.436	0
78		40-21-53	105-25-43	5.606	.000	2656814.592	219164.471	91.431	0
79		34-08-25	101-59-57	7.314	.000	2656814.770	219162.603	91.402	0
80		56-38-15	99-42-55	9.048	.000	2656818.331	219162.977	91.395	0
81		65-48-42	102-19-59	6.926	.000	2656817.464	219165.306	91.443	0
82		80-59-41	104-56-53	5.705	.000	2656817.096	219167.317	91.451	0
83		97-12-50	106-39-45	5.167	.000	2656816.843	219168.873	91.441	0
84		97-12-39	99-42-17	8.691	.000	2656820.453	219168.665	91.457	0
85		85-46-53	99-42-13	8.692	.000	2656820.187	219166.980	91.457	0
86		74-28-25	98-30-54	10.050	.000	2656820.832	219164.796	91.434	0
87		65-56-45	97-44-54	11.530	.000	2656821.310	219162.677	91.368	0
88		72-25-25	96-18-25	14.154	.000	2656824.314	219162.536	91.367	0
89		79-21-24	97-23-02	11.557	.000	2656822.590	219165.023	91.437	0
90		86-25-22	97-59-08	10.563	.000	2656822.047	219166.613	91.455	0
91		94-26-39	98-28-54	9.948	.000	2656821.685	219168.119	91.455	0
92		99-22-14	98-28-55	9.960	.000	2656821.750	219168.963	91.453	0
93		99-19-19	96-59-01	12.078	.000	2656823.887	219168.911	91.454	0
94		92-52-22	96-36-17	12.730	.000	2656824.434	219167.479	91.458	0
95		85-47-43	96-25-11	13.153	.000	2656824.543	219165.839	91.452	0
96		78-54-27	96-07-07	14.171	.000	2656825.002	219163.972	91.412	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 5 頁 共 47 頁

測站 = L3		N = 2656811.901		E = 219169.157		EL = 91.400			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.522 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 259-29-59		至後視距離 = 102.628 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
97		80-39-52	94-55-46	17.978	.000	2656828.750	219163.079	91.377	0
98		86-48-36	95-21-10	16.007	.000	2656827.385	219165.385	91.429	0
99		92-45-48	95-36-37	14.997	.000	2656826.690	219167.148	91.456	0
100		98-13-12	95-36-35	14.970	.000	2656826.787	219168.564	91.459	0
101		98-12-58	94-42-24	17.856	.000	2656829.682	219168.448	91.457	0
102		98-12-55	94-03-43	20.723	.000	2656832.555	219168.333	91.454	0
103		98-13-01	93-36-20	23.479	.000	2656835.315	219168.223	91.446	0
104		98-13-00	93-11-31	26.727	.000	2656838.565	219168.094	91.434	0
105		98-12-53	92-57-26	29.413	.000	2656841.251	219167.986	91.405	0
106		95-14-07	92-57-39	29.495	.000	2656841.232	219166.454	91.399	0
107		94-58-11	93-19-03	25.888	.000	2656837.625	219166.666	91.424	0
108		94-36-17	93-52-12	21.847	.000	2656833.583	219166.918	91.448	0
109		94-11-39	94-13-32	19.931	.000	2656831.657	219166.974	91.454	0
110		93-33-06	95-02-50	16.704	.000	2656828.418	219167.144	91.453	0
111		89-05-10	94-29-13	18.949	.000	2656830.418	219165.419	91.440	0
112		89-51-01	93-32-27	24.595	.000	2656836.026	219164.620	91.403	0
113		91-22-06	92-56-06	30.231	.000	2656841.709	219164.365	91.374	0
114		91-51-04	92-45-27	32.464	.000	2656843.958	219164.281	91.361	0
115		84-57-36	94-01-30	21.879	.000	2656832.928	219163.310	91.387	0
116		4-08-07	102-21-02	7.156	.000	2656811.126	219162.210	91.392	0
117		356-41-06	111-36-08	4.149	.000	2656810.980	219165.411	91.395	0
118		329-31-02	106-18-52	5.621	.000	2656808.363	219165.085	91.343	0
119		336-22-27	101-58-08	7.903	.000	2656807.563	219162.757	91.283	0
120		336-23-25	97-14-23	13.028	.000	2656804.653	219158.456	91.280	0
121		315-46-57	95-16-41	18.057	.000	2656797.223	219158.771	91.261	0
122		319-05-33	96-11-46	15.230	.000	2656800.066	219159.712	91.278	0
123		313-28-06	98-24-04	11.111	.000	2656802.679	219163.176	91.299	0
124		308-47-48	103-01-17	7.212	.000	2656805.714	219165.826	91.297	0
125		293-13-11	103-01-39	7.279	.000	2656804.983	219167.596	91.281	0
126		293-13-06	112-14-28	4.160	.000	2656808.145	219168.309	91.348	0
127		258-14-42	110-54-30	4.383	.000	2656808.111	219170.708	91.358	0
128		276-48-47	104-39-04	6.472	.000	2656805.652	219169.560	91.285	0
129		258-53-04	103-05-43	7.200	.000	2656805.381	219171.740	91.291	0
130		246-05-36	100-56-19	8.520	.000	2656804.999	219173.884	91.306	0
131		253-05-03	98-37-21	10.767	.000	2656802.451	219174.059	91.308	0
132		257-58-42	97-14-52	12.766	.000	2656800.203	219174.008	91.312	0
133		262-13-28	96-00-26	15.389	.000	2656797.368	219173.956	91.312	0
134		264-41-54	95-04-55	18.092	.000	2656794.561	219174.064	91.320	0
135		266-46-05	94-26-45	20.683	.000	2656791.869	219174.052	91.319	0
136		268-37-25	93-59-16	23.248	.000	2656789.206	219173.930	91.306	0
137		270-05-18	93-31-30	26.214	.000	2656786.167	219173.886	91.311	0
138		270-50-46	93-24-01	27.357	.000	2656784.979	219173.737	91.300	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 6 頁 共 47 頁

測站 = L3		N = 2656811.901		E = 219169.157		EL = 91.400			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.522 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 259-29-59		至後視距離 = 102.628 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
139		271-56-41	93-02-40	30.257	.000	2656782.023	219173.652	91.315	0
140		267-44-34	92-53-55	30.882	.000	2656781.820	219175.968	91.361	0
141		264-20-02	94-10-54	21.757	.000	2656791.060	219175.199	91.336	0
142		274-04-50	93-02-52	30.378	.000	2656781.756	219172.549	91.307	0
143		275-15-52	93-03-30	30.159	.000	2656781.910	219171.905	91.313	0
144		277-46-05	93-07-59	29.328	.000	2656782.650	219170.553	91.319	0
145		279-40-09	93-04-02	29.842	.000	2656782.105	219169.589	91.326	0
146		283-11-14	93-04-57	29.562	.000	2656782.414	219167.773	91.333	0
147		285-53-02	93-04-22	29.660	.000	2656782.414	219166.378	91.332	0
148		288-39-30	93-04-01	29.632	.000	2656782.611	219164.958	91.337	0
149		292-29-43	93-00-20	30.145	.000	2656782.455	219162.901	91.342	0
150		295-22-53	93-00-29	30.187	.000	2656782.766	219161.415	91.338	0
151		297-47-07	92-58-48	30.743	.000	2656782.586	219160.035	91.324	0
152		301-28-29	92-58-48	31.187	.000	2656782.820	219158.009	91.301	0
153		303-27-14	93-22-42	27.871	.000	2656786.281	219158.307	91.280	0
154		305-24-17	93-44-23	25.088	.000	2656789.194	219158.615	91.286	0
155		307-42-22	93-56-33	23.711	.000	2656790.863	219158.342	91.292	0
156		309-15-35	94-40-34	19.798	.000	2656794.603	219159.663	91.308	0
157		311-20-26	95-03-18	18.494	.000	2656796.084	219159.713	91.293	0
158		314-56-24	95-21-29	17.876	.000	2656797.222	219159.092	91.253	0
159		315-38-35	97-08-06	13.170	.000	2656801.215	219161.635	91.286	0
160		307-59-20	98-45-17	10.621	.000	2656802.589	219164.312	91.306	0
161		299-19-34	98-45-03	10.609	.000	2656801.976	219165.773	91.308	0
162		292-14-17	98-45-01	10.636	.000	2656801.608	219167.019	91.304	0
163		284-55-48	98-44-58	10.573	.000	2656801.482	219168.350	91.314	0
164		275-10-16	98-44-53	10.627	.000	2656801.443	219170.133	91.306	0
165		268-59-34	98-44-49	10.609	.000	2656801.626	219171.249	91.309	0
166		261-29-33	98-44-46	10.611	.000	2656801.985	219172.573	91.309	0
167		265-37-34	97-09-20	12.938	.000	2656799.494	219172.452	91.311	0
168		271-34-08	97-09-21	12.768	.000	2656799.386	219171.124	91.332	0
169		280-42-16	97-09-33	12.749	.000	2656799.251	219169.112	91.333	0
170		286-36-15	97-09-41	12.732	.000	2656799.340	219167.814	91.335	0
171		292-00-35	97-09-44	12.787	.000	2656799.469	219166.626	91.328	0
172		297-36-58	97-09-49	12.834	.000	2656799.731	219165.409	91.322	0
173		303-26-32	97-09-53	12.896	.000	2656800.118	219164.169	91.314	0
174		308-38-42	97-04-59	13.100	.000	2656800.438	219163.025	91.307	0
175		313-01-07	97-04-52	13.211	.000	2656800.846	219162.109	91.294	0
176		307-56-10	95-31-34	16.689	.000	2656797.158	219161.503	91.315	0
177		302-45-24	95-33-50	16.497	.000	2656796.705	219162.938	91.323	0
178		296-30-57	95-33-59	16.318	.000	2656796.290	219164.676	91.339	0
179		292-37-05	95-33-57	16.205	.000	2656796.132	219165.771	91.351	0
180		287-50-26	95-33-51	16.170	.000	2656795.939	219167.101	91.354	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 7 頁 共 47 頁

測站 = L3		N = 2656811.901		E = 219169.157		EL = 91.400			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.522 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 259-29-59		至後視距離 = 102.628 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
181		282-33-21	95-33-47	16.047	.000	2656795.940	219168.584	91.367	0
182		278-12-32	95-33-46	16.239	.000	2656795.751	219169.803	91.348	0
183		274-30-28	95-33-42	16.448	.000	2656795.620	219170.866	91.328	0
184		269-27-12	95-33-38	16.562	.000	2656795.722	219172.316	91.317	0
185		271-48-37	94-25-02	20.800	.000	2656791.401	219172.290	91.320	0
186		274-58-20	94-25-02	20.616	.000	2656791.442	219171.137	91.334	0
187		278-47-18	94-25-04	20.371	.000	2656791.599	219169.764	91.353	0
188		282-53-53	94-25-07	20.242	.000	2656791.737	219168.313	91.363	0
189		285-54-40	94-25-08	20.259	.000	2656791.792	219167.252	91.361	0
190		290-23-40	94-25-14	20.283	.000	2656791.979	219165.682	91.359	0
191		293-41-07	94-25-17	20.345	.000	2656792.151	219164.530	91.354	0
192		297-00-02	94-25-20	20.420	.000	2656792.380	219163.375	91.348	0
193		300-03-24	94-25-23	20.496	.000	2656792.645	219162.317	91.342	0
194		303-23-57	94-25-26	20.743	.000	2656792.849	219161.110	91.322	0
195		301-15-38	93-48-30	24.080	.000	2656789.434	219160.641	91.323	0
196		298-08-47	93-48-27	23.882	.000	2656789.193	219161.933	91.336	0
197		293-54-30	93-48-25	23.656	.000	2656788.940	219163.684	91.352	0
198		290-50-18	93-48-22	23.628	.000	2656788.708	219164.926	91.354	0
199		287-58-02	93-48-18	23.695	.000	2656788.459	219166.085	91.350	0
200		284-27-30	93-48-15	23.699	.000	2656788.310	219167.525	91.350	0
201		281-15-46	93-48-12	23.777	.000	2656788.178	219168.841	91.345	0
202		277-33-50	93-48-10	23.983	.000	2656788.002	219170.383	91.332	0
203		273-32-20	93-48-06	24.152	.000	2656787.980	219172.078	91.321	0
204		273-59-26	93-22-15	27.444	.000	2656784.681	219172.263	91.309	0
205		277-11-46	93-22-16	27.186	.000	2656784.807	219170.721	91.324	0
206		281-18-14	93-22-20	27.015	.000	2656784.935	219168.779	91.333	0
207		283-26-55	93-22-19	26.954	.000	2656785.029	219167.773	91.337	0
208		285-47-18	93-22-21	26.761	.000	2656785.300	219166.695	91.348	0
209		289-30-06	93-22-25	26.697	.000	2656785.578	219164.987	91.351	0
210		292-34-17	93-22-30	26.761	.000	2656785.777	219163.570	91.347	0
211		296-18-10	93-22-29	26.943	.000	2656786.021	219161.833	91.336	0
212		255-29-40	91-44-31	28.985	.000	2656785.645	219181.404	92.041	0
213		241-27-25	92-48-11	20.080	.000	2656796.324	219181.790	91.940	0
214		247-32-45	92-09-41	23.759	.000	2656791.979	219182.072	92.026	0
215		231-33-39	92-51-46	17.734	.000	2656800.267	219182.512	92.037	0
216		219-53-10	93-11-37	15.662	.000	2656804.228	219182.783	92.050	0
217		209-13-21	93-37-01	13.794	.000	2656807.482	219182.195	92.052	0
218		190-59-32	93-47-21	13.592	.000	2656811.784	219182.719	92.024	0
219		178-38-18	93-47-45	13.442	.000	2656814.658	219182.283	92.032	0
220		259-13-53	91-54-30	29.686	.000	2656784.252	219179.920	91.934	0
221		264-21-48	92-50-36	28.695	.000	2656784.370	219177.123	91.499	0
222		259-11-01	93-39-01	22.356	.000	2656791.117	219177.267	91.499	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 8 頁 共 47 頁

測站 = L3		N = 2656811.901		E = 219169.157		EL = 91.400			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.522 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 259-29-59		至後視距離 = 102.628 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
223		256-28-02	92-13-54	26.281	.000	2656787.916	219179.852	91.899	0
224		249-56-53	93-01-46	20.988	.000	2656793.852	219179.811	91.813	0
225		255-45-27	94-02-13	19.775	.000	2656793.986	219177.413	91.530	0
226		251-54-59	94-52-01	16.658	.000	2656797.326	219177.098	91.509	0
227		243-51-21	96-20-15	13.379	.000	2656801.232	219177.093	91.445	0
228		245-52-15	93-24-07	18.733	.000	2656796.514	219179.784	91.811	0
229		236-06-31	94-20-39	15.594	.000	2656800.790	219180.035	91.741	0
230		227-11-41	95-12-35	13.540	.000	2656803.843	219179.969	91.693	0
231		234-31-42	97-52-38	10.646	.000	2656804.572	219176.739	91.463	0
232		206-50-38	96-05-57	11.073	.000	2656808.803	219179.722	91.746	0
233		209-26-12	102-15-40	6.771	.000	2656809.754	219175.416	91.484	0
234		15-27-28	92-09-15	42.505	.000	2656815.571	219126.841	91.325	0
235		13-27-24	92-08-33	42.909	.000	2656814.112	219126.335	91.318	0
236		11-30-38	92-14-25	41.113	.000	2656812.625	219128.082	91.315	0
237		9-41-22	92-16-37	39.260	.000	2656811.346	219129.932	91.363	0
238		6-47-02	92-15-39	37.233	.000	2656809.489	219132.031	91.454	0
239		5-03-54	92-17-02	36.277	.000	2656808.467	219133.072	91.477	0
240		3-26-25	92-17-00	36.105	.000	2656807.467	219133.354	91.484	0
241		1-31-23	92-16-25	36.146	.000	2656806.265	219133.482	91.488	0
242		1-31-21	92-27-25	33.233	.000	2656806.720	219136.361	91.498	0
243		2-24-34	92-27-37	33.312	.000	2656807.217	219136.207	91.492	0
244		3-22-02	92-27-43	33.370	.000	2656807.761	219136.076	91.489	0
245		4-19-59	92-27-40	33.549	.000	2656808.300	219135.833	91.482	0
246		5-39-09	92-27-44	33.561	.000	2656809.067	219135.747	91.481	0
247		6-30-35	92-27-45	33.662	.000	2656809.560	219135.608	91.476	0
248		8-01-59	92-27-46	33.990	.000	2656810.439	219135.230	91.462	0
249		9-42-30	92-27-45	34.006	.000	2656811.431	219135.186	91.461	0
250		11-22-36	92-27-44	34.541	.000	2656812.429	219134.652	91.438	0
251		12-57-30	92-27-46	34.881	.000	2656813.395	219134.340	91.423	0
252		14-55-42	92-27-47	34.989	.000	2656814.600	219134.305	91.419	0
253		16-00-19	92-27-46	35.307	.000	2656815.285	219134.045	91.405	0
254		16-48-34	92-22-21	36.987	.000	2656815.962	219132.426	91.391	0
255		13-24-08	92-18-20	38.406	.000	2656813.844	219130.831	91.377	0
256		14-13-54	92-18-19	38.638	.000	2656814.413	219130.632	91.368	0
257		15-42-55	92-18-19	38.421	.000	2656815.390	219130.926	91.377	0
258		16-42-32	92-18-24	38.274	.000	2656816.037	219131.138	91.382	0
259		9-57-41	92-19-55	37.142	.000	2656811.552	219132.047	91.411	0
260		8-17-25	92-19-53	36.176	.000	2656810.507	219133.038	91.451	0
261		7-06-26	92-23-51	34.697	.000	2656809.849	219134.551	91.471	0
262		16-20-15	92-42-01	31.875	.000	2656815.139	219137.483	91.421	0
263		14-45-33	92-42-01	31.687	.000	2656814.251	219137.593	91.430	0
264		12-37-39	92-42-00	31.477	.000	2656813.068	219137.737	91.440	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 9 頁 共 47 頁

測站 = L3		N = 2656811.901		E = 219169.157		EL = 91.400			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.522 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 259-29-59		至後視距離 = 102.628 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
265		10-04-45	92-42-00	31.239	.000	2656811.671	219137.954	91.451	0
266		7-50-33	92-42-00	31.028	.000	2656810.464	219138.197	91.461	0
267		5-44-08	92-41-59	30.797	.000	2656809.346	219138.501	91.472	0
268		4-24-37	92-41-59	30.744	.000	2656808.643	219138.620	91.474	0
269		2-29-18	92-41-57	30.536	.000	2656807.649	219138.953	91.484	0
270		359-43-58	92-41-54	30.483	.000	2656806.212	219139.244	91.487	0
271		357-27-50	92-41-52	30.742	.000	2656804.974	219139.241	91.475	0
272		357-27-40	92-16-22	36.298	.000	2656803.718	219133.823	91.483	0
273		357-27-43	92-03-22	41.668	.000	2656802.506	219128.589	91.427	0
274		357-59-17	92-03-23	41.800	.000	2656802.851	219128.376	91.422	0
275		359-51-11	92-07-18	40.012	.000	2656804.513	219129.861	91.441	0
276		0-16-51	92-22-47	34.316	.000	2656805.818	219135.415	91.497	0
277		1-41-51	92-07-05	41.030	.000	2656805.626	219128.638	91.406	0
278		16-06-21	93-04-55	28.083	.000	2656814.640	219141.249	91.412	0
279		13-29-45	93-04-54	27.872	.000	2656813.355	219141.363	91.424	0
280		11-50-33	93-04-51	27.622	.000	2656812.547	219141.583	91.438	0
281		10-06-11	93-04-48	27.485	.000	2656811.711	219141.712	91.446	0
282		8-16-21	93-04-47	27.382	.000	2656810.838	219141.835	91.451	0
283		6-23-52	93-04-46	27.275	.000	2656809.952	219141.991	91.457	0
284		3-02-38	93-04-43	27.052	.000	2656808.395	219142.373	91.469	0
285		359-53-26	93-04-38	26.808	.000	2656806.972	219142.845	91.483	0
286		357-26-09	93-04-36	27.177	.000	2656805.766	219142.722	91.464	0
287		15-58-00	93-47-40	23.410	.000	2656814.126	219145.905	91.373	0
288		13-11-02	93-47-40	23.057	.000	2656812.978	219146.176	91.396	0
289		10-26-17	93-47-39	22.965	.000	2656811.876	219146.242	91.403	0
290		7-34-29	93-47-38	22.833	.000	2656810.738	219146.404	91.411	0
291		3-38-50	93-47-34	22.724	.000	2656809.195	219146.645	91.419	0
292		359-56-58	93-47-29	22.644	.000	2656807.764	219146.945	91.425	0
293		356-06-45	93-47-25	22.841	.000	2656806.238	219147.081	91.412	0
294		353-23-38	93-47-22	22.940	.000	2656805.168	219147.280	91.406	0
295		16-40-55	94-55-04	18.369	.000	2656813.872	219150.962	91.348	0
296		13-20-32	94-54-59	18.318	.000	2656812.806	219150.929	91.352	0
297		10-11-11	94-54-56	18.293	.000	2656811.801	219150.932	91.355	0
298		7-02-46	94-54-53	18.291	.000	2656810.803	219150.966	91.355	0
299		3-21-58	94-54-52	18.199	.000	2656809.649	219151.165	91.363	0
300		359-59-35	94-54-48	18.714	.000	2656808.501	219150.824	91.319	0
301		355-47-27	94-54-38	18.852	.000	2656807.132	219150.990	91.309	0
302		353-05-46	94-54-38	18.966	.000	2656806.249	219151.126	91.299	0
303		17-07-26	96-01-07	14.740	.000	2656813.592	219154.596	91.377	0
304		18-32-17	96-01-09	14.938	.000	2656813.978	219154.447	91.356	0
305		10-51-01	96-01-05	14.617	.000	2656811.990	219154.621	91.390	0
306		5-00-19	96-01-02	14.644	.000	2656810.506	219154.661	91.387	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 10 頁 共 47 頁

測站 = L3		N = 2656811.901		E = 219169.157		EL = 91.400			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.522 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 259-29-59		至後視距離 = 102.628 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
307		1-03-53	96-00-58	14.846	.000	2656809.480	219154.593	91.366	0
308		355-02-16	96-00-50	15.443	.000	2656807.806	219154.355	91.304	0
309		349-23-17	96-00-43	15.506	.000	2656806.346	219154.771	91.298	0
310		20-25-50	98-25-10	10.698	.000	2656813.726	219158.733	91.356	0
311		13-16-39	98-25-20	10.523	.000	2656812.405	219158.760	91.381	0
312		5-29-52	98-25-13	10.577	.000	2656810.988	219158.734	91.373	0
313		357-22-56	98-25-03	10.712	.000	2656809.496	219158.837	91.354	0
314		349-40-15	98-24-14	11.189	.000	2656807.965	219158.812	91.287	0
315		342-07-55	97-53-12	12.013	.000	2656806.247	219158.687	91.274	0
316		173-07-40	96-28-01	11.067	.000	2656815.184	219179.652	91.676	0
317		165-18-48	101-59-35	6.594	.000	2656814.646	219174.994	91.552	0
318		157-54-09	95-43-59	12.744	.000	2656818.732	219179.840	91.649	0
319		142-33-08	99-14-53	8.666	.000	2656818.252	219174.886	91.530	0
320		132-20-28	97-34-22	10.999	.000	2656821.163	219174.909	91.473	0
321		143-33-24	95-08-13	15.772	.000	2656823.379	219179.882	91.510	0
322		137-04-12	94-17-57	19.167	.000	2656827.251	219180.545	91.485	0
323		123-40-18	95-40-55	14.712	.000	2656825.360	219174.918	91.466	0
324		118-57-00	94-40-39	18.138	.000	2656829.049	219174.878	91.443	0
325		130-53-05	93-39-23	21.282	.000	2656830.222	219179.900	91.565	0
326		126-46-06	94-10-16	19.443	.000	2656829.290	219177.739	91.508	0
327		129-17-14	94-51-21	16.952	.000	2656826.704	219177.291	91.487	0
328		134-19-20	95-13-10	15.766	.000	2656824.944	219177.896	91.488	0
329		139-53-21	95-54-23	13.654	.000	2656822.397	219177.776	91.517	0
330		143-33-11	96-32-08	12.087	.000	2656820.676	219177.355	91.547	0
331		150-50-45	97-00-29	10.946	.000	2656818.834	219177.521	91.587	0
332		158-22-02	97-15-00	10.354	.000	2656817.364	219177.855	91.616	0
333		176-46-57	98-44-58	8.670	.000	2656813.933	219177.482	91.603	0
334		191-58-56	99-21-06	8.164	.000	2656811.692	219177.210	91.596	0
335		207-55-40	99-03-34	8.524	.000	2656809.380	219177.188	91.580	0
336		334-44-07	89-43-22	55.374		2656779.537	219124.226		441
337		336-21-08	89-43-19	57.999		2656779.344	219121.158		440
338		337-51-31	89-43-35	60.536		2656779.249	219118.183		440
339		334-43-45	89-47-14	55.375		2656779.532	219124.228		441
340		332-54-28	90-04-01	52.922		2656779.616	219127.223		440
341		326-14-48	89-50-13	45.826		2656779.922	219136.334		440
342		317-27-32	90-30-35	39.548		2656780.300	219145.380		440
343		305-33-57	90-13-29	34.705		2656780.464	219154.454		440
344		295-40-24	90-04-03	32.505		2656780.529	219160.649		440
345		285-30-44	89-53-40	31.412		2656780.609	219166.413		440
346		274-20-05	89-51-24	31.356		2656780.726	219172.525		440
347		263-29-23	89-38-21	32.520		2656780.804	219178.670		440
348		254-34-31	89-30-50	34.751		2656780.648	219184.349		440

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 11 頁 共 47 頁

測站 = L3		N = 2656811.901		E = 219169.157		EL = 91.400			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.522 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 259-29-59		至後視距離 = 102.628 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
349		25-49-12	90-25-21	13.547		2656815.480	219156.092		54
350		41-00-08	87-45-45	14.837		2656819.426	219156.383		281
351		47-08-30	87-25-08	12.516		2656819.363	219159.125		280
352		31-01-34	89-58-22	11.516	1.600	2656815.939	219158.372	91.328	0
353		21-15-36	88-19-06	28.504		2656817.220	219141.166		5
354		50-41-50	90-05-39	12.111		2656819.717	219159.906		361
355		58-46-29	89-58-09	14.195	1.600	2656822.495	219159.709	91.330	0
356		65-34-26	90-01-35	15.478		2656824.591	219160.296		365
357		66-14-45	90-02-12	16.085		2656825.196	219160.103		360
358		65-12-00	89-55-31	16.651		2656825.490	219159.535		366
359		64-50-58	89-50-20	16.547		2656825.347	219159.513		291
360		65-24-18	89-55-53	16.754		2656825.609	219159.525		290
361		64-30-09	88-46-13	16.995		2656825.647	219159.170		5
362		61-03-39	86-42-07	17.888		2656825.693	219157.812		290
363		64-05-31	87-49-36	16.312		2656825.019	219159.482		283
364		65-52-10	87-01-01	19.635		2656828.035	219158.014		291
365		69-55-50	89-56-01	18.655		2656827.963	219159.669		290
366		70-27-13	89-48-45	18.872		2656828.237	219159.708		290
367		70-01-04	89-56-46	18.659		2656827.981	219159.692		360
368		71-39-44	90-00-51	18.309		2656827.939	219160.326		360
369		72-39-09	90-00-52	18.315		2656828.095	219160.602		360
370		72-56-55	90-01-23	16.989		2656826.963	219161.299		231
371		74-38-42	90-01-27	17.702		2656827.831	219161.437		230
372		72-22-08	90-01-32	18.189		2656827.941	219160.581		233
373		111-03-31	89-56-48	32.145		2656843.502	219175.047		351
374		109-42-54	89-58-57	31.978		2656843.466	219174.278		231
375		109-52-19	90-01-01	31.103		2656842.589	219174.222		230
376		111-12-18	90-03-39	31.171		2656842.529	219174.947		233
377		110-33-54	90-00-05	31.613	2.150	2656843.027	219174.682	90.772	10
378		110-34-01	90-00-04	31.625	1.600	2656843.039	219174.685	91.322	0
379		95-31-22	89-58-20	32.299		2656844.078	219166.355		355
380		94-34-08	89-58-35	32.769		2656844.494	219165.771		350
381		94-13-00	89-58-33	33.414		2656845.114	219165.500		356
382		87-58-07	89-58-37	33.462		2656844.566	219161.897		360
383		72-35-46	90-00-07	17.635	2.350	2656827.485	219160.904	90.572	10
384		72-35-45	90-00-06	17.647	1.600	2656827.496	219160.898	91.322	0
385		85-24-29	89-46-02	29.869		2656840.739	219161.380		231
386		83-58-37	89-51-57	30.174		2656840.829	219160.575		230
387		84-31-13	89-51-55	30.960		2656841.664	219160.634		233
388		84-54-59	89-43-49	30.368	2.000	2656841.152	219160.999	91.065	10
389		84-54-58	89-43-48	30.368	1.600	2656841.152	219160.999	91.465	0
390		89-09-03	90-05-12	33.451		2656844.698	219162.574		231

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 12 頁 共 47 頁

測站 = L3		N = 2656811.901		E = 219169.157		EL = 91.400			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.522 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 259-29-59		至後視距離 = 102.628 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
391		89-35-20	89-59-30	34.316		2656845.596	219162.661		230
392		88-15-33	89-59-01	34.571		2656845.686	219161.827		233
393		88-41-19	89-59-31	33.986	2.350	2656845.167	219162.200	90.577	10
394		88-41-19	89-59-32	34.014	1.600	2656845.195	219162.195	91.327	0
395		89-18-24	89-59-19	37.125		2656848.320	219161.950		5
396		90-05-14	90-00-28	37.495	2.420	2656848.778	219162.380	90.497	10
397		90-05-19	90-00-27	37.514	1.600	2656848.797	219162.378	91.317	0
398		95-12-06	89-52-03	38.277		2656850.014	219165.622		350
399		90-27-34	89-56-23	38.785		2656850.092	219162.395		350
400		90-20-56	89-57-26	38.540		2656849.837	219162.364		355
401		90-03-45	89-57-35	38.317		2656849.584	219162.215		350
402		89-35-30	89-57-37	38.303		2656849.512	219161.909		356
403		95-22-54	89-57-38	37.568		2656849.319	219165.805		281
404		104-15-08	90-05-14	37.138		2656848.959	219171.587		280
405		104-03-26	90-04-57	36.769		2656848.599	219171.438		231
406		105-43-28	90-04-55	36.751		2656848.499	219172.503		230
407		105-43-14	90-04-14	37.869		2656849.613	219172.603		233
408		104-36-59	90-13-12	37.202	1.800	2656849.007	219171.827	90.979	10
409		104-36-59	90-13-11	37.169	1.600	2656848.974	219171.825	91.180	0
410		120-01-41	89-53-37	36.673		2656846.464	219181.416		631
411		121-12-33	89-50-12	37.193		2656846.691	219182.309		641
412		120-48-55	89-51-00	37.999		2656847.536	219182.350		62
413		121-08-22	90-50-42	36.390	1.600	2656845.952	219181.982	90.786	10
414		123-44-56	90-50-31	31.846	1.600	2656841.158	219181.726	90.854	10
415		126-16-12	89-48-17	30.770	1.600	2656839.611	219182.534	91.427	0
416		127-59-07	89-44-30	28.267	1.600	2656836.977	219182.203	91.450	0
417		127-37-36	90-53-57	27.291	1.600	2656836.187	219181.599	90.894	10
418		127-11-51	89-48-52	25.801	1.600	2656834.951	219180.749	91.406	0
419		133-59-07	91-05-54	22.924	1.600	2656831.017	219181.802	90.883	10
420		136-39-50	91-11-05	20.976	1.600	2656828.832	219181.532	90.889	10
421		133-43-35	89-41-08	21.558	1.600	2656829.934	219180.969	91.441	0
422		141-31-28	91-09-36	18.648	1.600	2656825.967	219181.395	90.945	10
423		150-00-37	91-02-11	16.033	1.600	2656822.310	219181.348	91.032	10
424		160-29-20	91-03-38	14.092	1.600	2656818.948	219181.358	91.061	10
425		174-53-13	90-58-03	12.504	1.600	2656815.266	219181.198	91.111	10
426		189-27-20	90-44-53	11.994	1.600	2656812.119	219181.148	91.166	10
427		203-40-44	90-20-02	12.299	1.600	2656809.097	219181.132	91.251	10
428		203-37-39	88-04-14	11.954		2656809.187	219180.792		5
429		199-56-31	88-07-01	11.828	1.600	2656809.962	219180.819	91.711	62
430		216-53-50	90-01-58	13.255	1.600	2656806.008	219181.030	91.315	10
431		227-09-40	89-55-45	14.663	1.600	2656803.146	219180.919	91.340	10
432		234-57-31	89-50-55	16.396	1.600	2656800.417	219180.860	91.366	10

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 13 頁 共 47 頁

[illegible]

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 14 頁 共 47 頁

測站 = L4		N = 2656831.038		E = 219201.385		EL = 92.220			
後視 = LA6		N = 2656744.021		E = 219226.943		IH = 1.505 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 163-37-53		至後視距離 = 90.693 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
LA6		360-00-00	89-21-55	90.707	1.146	2656744.013	219226.946	93.584	2
1		4-52-52	86-07-38	16.556		2656814.850	219204.675		711
2		63-56-44	89-49-53	23.396		2656815.255	219184.114		710
3		153-47-09	90-53-53	41.979		2656861.943	219172.983		600
4		336-09-08	89-38-03	20.368		2656815.485	219214.536		731
5		260-14-42	92-14-22	8.586		2656834.815	219209.088		730
6		109-50-02	95-32-32	19.116	.000	2656832.188	219182.393	91.879	0
7		110-07-27	96-09-12	16.065	.000	2656832.084	219185.447	92.003	0
8		110-28-16	96-45-16	14.032	.000	2656832.035	219187.486	92.075	0
9		110-47-47	97-50-19	11.788	.000	2656831.939	219189.742	92.117	0
10		110-47-50	99-05-35	10.038	.000	2656831.803	219191.503	92.139	0
11		112-08-30	102-27-43	7.200	.000	2656831.745	219194.390	92.171	0
12		112-40-03	108-26-27	4.901	.000	2656831.548	219196.764	92.175	0
13		120-30-05	134-06-49	2.160	.000	2656831.416	219199.881	92.221	0
14		103-51-38	95-26-02	19.270	.000	2656830.198	219182.220	91.900	0
15		103-27-13	95-48-08	17.630	.000	2656830.146	219183.868	91.943	0
16		103-22-24	95-51-48	16.439	.000	2656830.183	219185.054	92.046	0
17		103-05-45	96-08-50	15.429	.000	2656830.162	219186.070	92.073	0
18		102-11-52	97-20-25	12.401	.000	2656830.143	219189.118	92.141	0
19		102-11-51	97-20-27	12.400	.000	2656830.143	219189.119	92.141	0
20		100-30-00	99-01-19	9.878	.000	2656830.040	219191.680	92.176	0
21		97-51-48	102-46-42	6.879	.000	2656830.046	219194.750	92.203	0
22		91-20-07	111-07-37	4.217	.000	2656830.017	219197.586	92.205	0
23		95-37-36	95-17-21	19.812	.000	2656827.361	219182.003	91.899	0
24		94-37-47	95-43-11	17.354	.000	2656827.525	219184.478	91.995	0
25		94-32-11	95-47-29	16.471	.000	2656827.678	219185.346	92.063	0
26		91-49-50	97-08-15	12.725	.000	2656827.868	219189.163	92.144	0
27		87-39-49	99-29-24	9.355	.000	2656828.079	219192.645	92.183	0
28		79-19-35	103-03-08	6.714	.000	2656828.064	219195.559	92.209	0
29		63-44-24	108-45-18	4.657	.000	2656828.051	219198.140	92.228	0
30		88-10-23	94-59-11	20.651	.000	2656824.614	219181.841	91.930	0
31		82-51-10	94-42-35	21.359	.000	2656822.544	219181.866	91.971	0
32		76-39-10	94-32-32	21.886	.000	2656820.223	219182.437	91.992	0
33		71-12-09	94-07-06	23.830	.000	2656817.348	219181.954	92.014	0
34		66-47-16	93-53-48	25.108	.000	2656815.077	219182.078	92.019	0
35		86-29-51	95-29-10	17.308	.000	2656825.182	219185.182	92.070	0
36		81-20-47	96-28-51	14.026	.000	2656825.143	219188.756	92.142	0
37		75-23-38	97-35-56	11.723	.000	2656825.057	219191.422	92.175	0
38		66-43-51	99-16-39	9.514	.000	2656825.048	219194.154	92.191	0
39		55-29-46	100-50-13	8.030	.000	2656824.920	219196.408	92.215	0
40		38-44-52	102-38-55	6.810	.000	2656824.893	219198.855	92.234	0
41		22-44-19	103-39-37	6.281	.000	2656824.972	219200.708	92.242	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 15 頁 共 47 頁

測站 = L4		N = 2656831.038		E = 219201.385		EL = 92.220			
後視 = LA6		N = 2656744.021		E = 219226.943		IH = 1.505 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 163-37-53		至後視距離 = 90.693 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
42		349-13-19	101-56-20	7.131	.000	2656824.830	219204.568	92.250	0
43		13-00-57	104-00-13	6.098	.000	2656825.131	219201.731	92.249	0
44		349-40-19	101-52-56	7.156	.000	2656824.782	219204.531	92.252	0
45		330-48-27	107-37-07	4.855	.000	2656827.798	219204.689	92.255	0
46		304-51-38	111-33-37	4.042	.000	2656829.845	219204.950	92.240	0
47		276-05-18	114-33-19	3.673	.000	2656831.634	219204.672	92.199	0
48		338-49-18	133-44-45	2.128	.000	2656829.819	219202.322	92.254	0
49		10-17-16	111-13-04	4.081	.000	2656827.255	219201.788	92.248	0
50		12-19-45	100-32-18	7.992	.000	2656823.200	219201.938	92.263	0
51		12-19-59	98-03-02	10.422	.000	2656820.744	219202.111	92.265	0
52		12-19-59	96-00-54	13.699	.000	2656817.448	219202.344	92.290	0
53		12-19-52	95-24-03	15.229	.000	2656815.914	219202.452	92.292	0
54		12-19-55	95-07-03	16.061	.000	2656815.080	219202.511	92.292	0
55		3-52-31	95-08-57	16.213	.000	2656815.272	219204.878	92.270	0
56		0-51-12	96-07-23	13.561	.000	2656818.045	219204.992	92.279	0
57		358-42-07	97-07-26	11.771	.000	2656819.908	219204.930	92.265	0
58		354-18-23	98-55-55	9.606	.000	2656822.243	219204.949	92.234	0
59		33-26-12	100-10-53	8.438	.000	2656823.098	219198.947	92.233	0
60		29-35-26	97-25-12	11.443	.000	2656819.991	219198.789	92.247	0
61		27-48-09	96-12-55	13.491	.000	2656817.892	219198.726	92.264	0
62		25-56-42	95-03-22	16.249	.000	2656815.077	219198.692	92.293	0
63		33-46-09	95-05-29	16.367	.000	2656815.481	219196.510	92.273	0
64		36-12-28	96-15-43	13.602	.000	2656818.319	219196.796	92.241	0
65		40-04-42	97-44-36	11.101	.000	2656820.966	219196.962	92.229	0
66		43-08-51	99-37-50	8.972	.000	2656823.141	219197.399	92.224	0
67		41-59-13	94-56-00	17.325	.000	2656815.474	219193.922	92.235	0
68		44-23-57	95-48-39	14.828	.000	2656818.016	219194.452	92.224	0
69		48-10-49	96-13-47	13.894	.000	2656819.301	219194.104	92.217	0
70		53-58-18	97-35-51	11.507	.000	2656822.001	219194.425	92.204	0
71		57-08-33	98-45-02	9.970	.000	2656823.575	219194.949	92.208	0
72		63-39-29	97-31-09	11.655	.000	2656823.200	219192.895	92.200	0
73		58-04-50	96-29-33	13.513	.000	2656821.015	219192.451	92.197	0
74		54-12-33	95-34-28	15.881	.000	2656818.555	219191.688	92.182	0
75		50-43-08	94-53-47	17.957	.000	2656816.266	219191.290	92.192	0
76		56-28-26	94-38-35	19.090	.000	2656816.484	219189.128	92.180	0
77		58-15-50	94-16-49	21.033	.000	2656815.425	219187.379	92.155	0
78		62-17-09	94-05-48	22.352	.000	2656815.527	219185.370	92.128	0
79		62-19-20	95-18-06	16.838	.000	2656819.381	219189.334	92.169	0
80		65-02-04	96-00-40	14.942	.000	2656821.224	219190.227	92.160	0
81		65-02-43	95-01-18	17.828	.000	2656819.311	219188.047	92.164	0
82		69-32-28	95-26-29	16.524	.000	2656821.178	219188.218	92.158	0
83		69-32-32	97-38-47	11.553	.000	2656824.175	219192.219	92.188	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 16 頁 共 47 頁

測站 = L4		N = 2656831.038		E = 219201.385		EL = 92.220			
後視 = LA6		N = 2656744.021		E = 219226.943		IH = 1.505 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 163-37-53		至後視距離 = 90.693 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
84		73-05-24	96-30-10	13.872	.000	2656823.475	219189.862	92.154	0
85		77-21-45	94-55-34	18.651	.000	2656822.027	219185.134	92.123	0
86		113-41-38	96-57-14	14.268	.000	2656832.844	219187.337	91.998	0
87		124-37-52	96-19-45	15.854	.000	2656835.976	219186.421	91.977	0
88		132-56-28	96-12-04	16.863	.000	2656838.537	219186.391	91.903	0
89		138-56-06	95-46-33	17.483	.000	2656840.401	219186.726	91.966	0
90		152-34-26	94-56-33	21.887	.000	2656846.778	219186.294	91.839	0
91		157-52-11	95-05-14	19.838	.000	2656846.502	219189.084	91.966	0
92		163-37-41	96-03-26	16.357	.000	2656844.719	219192.588	91.999	0
93		169-22-09	97-17-38	13.301	.000	2656842.793	219195.395	92.036	0
94		177-16-55	98-26-15	11.437	.000	2656841.729	219197.685	92.047	0
95		185-31-49	99-26-47	10.181	.000	2656840.902	219199.496	92.054	0
96		193-56-47	100-34-41	9.163	.000	2656840.037	219201.004	92.043	0
97		184-45-37	106-15-52	5.734	.000	2656836.430	219200.277	92.119	0
98		179-09-43	131-08-51	2.406	.000	2656832.768	219200.849	92.142	0
99		164-06-36	110-19-36	4.736	.000	2656834.793	219199.014	92.080	0
100		121-58-27	104-12-33	6.571	.000	2656832.751	219195.250	92.112	0
101		116-54-00	99-24-34	10.130	.000	2656832.864	219191.560	92.069	0
102		114-12-32	97-04-51	13.730	.000	2656832.896	219187.887	92.033	0
103		120-41-50	97-02-17	13.970	.000	2656834.469	219187.951	92.013	0
104		128-42-49	98-24-20	11.404	.000	2656835.327	219190.950	92.058	0
105		141-44-56	103-12-20	7.265	.000	2656835.133	219195.618	92.065	0
106		154-20-29	101-09-05	8.721	.000	2656837.394	219195.657	92.038	0
107		147-37-19	98-14-07	12.037	.000	2656838.893	219192.429	92.001	0
108		139-44-22	97-36-04	12.920	.000	2656838.082	219190.690	92.016	0
109		138-13-03	96-12-22	16.077	.000	2656839.472	219187.808	91.987	0
110		148-24-13	96-10-39	15.761	.000	2656841.530	219189.747	92.029	0
111		155-40-39	97-13-54	13.064	.000	2656840.865	219192.935	92.080	0
112		159-35-35	98-36-39	11.014	.000	2656839.760	219194.865	92.076	0
113		165-35-36	98-43-07	10.827	.000	2656840.233	219195.909	92.084	0
114		165-12-45	95-14-07	19.042	.000	2656847.265	219191.574	91.988	0
115		189-03-48	97-31-09	12.456	.000	2656843.286	219199.815	92.095	0
116		227-13-12	120-57-33	3.104	.000	2656833.323	219202.750	92.128	0
117		234-48-55	104-01-11	6.746	.000	2656836.164	219205.454	92.091	0
118		226-10-32	101-21-15	8.615	.000	2656838.367	219205.583	92.029	0
119		216-17-11	101-07-47	8.765	.000	2656839.123	219204.315	92.033	0
120		204-03-02	98-37-27	11.408	.000	2656842.216	219202.893	92.014	0
121		203-11-00	105-26-43	6.237	.000	2656837.007	219202.098	92.064	0
122		257-54-45	98-31-24	12.099	.000	2656836.739	219211.905	91.932	0
123		270-14-12	102-38-51	8.161	.000	2656833.250	219209.034	91.938	0
124		241-45-53	99-36-31	10.313	.000	2656838.178	219208.624	92.004	0
125		278-55-17	97-50-02	12.175	.000	2656832.601	219213.344	92.066	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 17 頁 共 47 頁

測站 = L4		N = 2656831.038		E = 219201.385		EL = 92.220			
後視 = LA6		N = 2656744.021		E = 219226.943		IH = 1.505 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 163-37-53		至後視距離 = 90.693 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
126		266-59-36	99-01-06	10.905	.000	2656834.611	219211.545	92.016	0
127		281-10-59	96-18-50	14.865	.000	2656832.373	219216.099	92.090	0
128		285-55-00	96-56-02	13.437	.000	2656831.143	219214.723	92.103	0
129		290-51-29	96-50-35	13.349	.000	2656830.000	219214.598	92.134	0
130		304-33-02	97-40-52	12.099	.000	2656827.296	219212.777	92.108	0
131		321-56-19	95-08-35	17.314	.000	2656821.007	219215.411	92.173	0
132		300-04-03	94-35-31	18.828	.000	2656826.593	219219.619	92.218	0
133		304-42-43	94-21-24	19.657	.000	2656824.869	219219.989	92.232	0
134		359-42-02	95-58-02	14.339	.000	2656817.376	219205.475	92.234	0
135		1-07-11	94-37-04	18.689	.000	2656813.065	219206.284	92.220	0
136		3-16-16	93-39-55	22.435	.000	2656809.231	219206.458	92.291	0
137		5-26-08	92-43-13	29.756	.000	2656801.855	219207.022	92.313	0
138		3-41-29	92-39-17	30.048	.000	2656801.754	219207.972	92.333	0
139		359-59-40	92-40-50	29.449	.000	2656802.814	219209.678	92.348	0
140		357-10-51	92-33-38	30.368	.000	2656802.385	219211.356	92.368	0
141		354-16-30	92-26-01	31.974	.000	2656801.438	219213.400	92.367	0
142		351-13-47	92-30-46	30.945	.000	2656803.051	219214.518	92.368	0
143		349-11-39	92-54-57	27.067	.000	2656806.990	219213.730	92.348	0
144		346-15-02	93-25-59	23.606	.000	2656810.655	219213.209	92.311	0
145		343-27-09	94-03-18	20.926	.000	2656813.515	219212.728	92.245	0
146		350-39-34	93-30-29	20.764	.000	2656812.364	219210.375	92.454	0
147		351-59-43	92-46-14	27.772	.000	2656805.770	219212.832	92.383	0
148		354-03-35	92-47-53	27.900	.000	2656805.257	219211.963	92.363	0
149		356-11-27	92-56-42	26.837	.000	2656805.881	219210.630	92.346	0
150		359-14-50	92-57-55	26.752	.000	2656805.506	219209.250	92.341	0
151		2-11-26	93-04-13	26.438	.000	2656805.442	219207.851	92.309	0
152		0-20-20	93-33-16	22.529	.000	2656809.426	219207.594	92.328	0
153		358-25-18	93-33-14	22.023	.000	2656810.127	219208.158	92.360	0
154		356-04-19	93-30-20	22.640	.000	2656809.843	219209.224	92.341	0
155		353-12-49	93-22-32	23.635	.000	2656809.344	219210.662	92.333	0
156		355-46-06	93-58-12	20.529	.000	2656811.867	219208.591	92.304	0
157		109-57-33	95-19-48	19.565		2656832.258	219181.943		280
158		4-18-36	80-49-48	14.673		2656816.872	219204.411		731
159		67-14-29	83-55-37	21.937		2656817.272	219184.463		730
160		274-31-17	90-18-04	3.663		2656831.790	219204.970		280
161		209-54-47	93-06-26	14.302	1.600	2656844.922	219204.729	91.350	10
162		210-12-23	91-17-05	13.584		2656844.224	219204.633		631
163		220-18-21	93-51-13	11.199	1.600	2656841.250	219205.918	91.372	10
164		220-37-49	91-25-28	12.218	1.600	2656842.173	219206.404	91.821	0
165		235-11-34	91-27-22	10.437	1.600	2656839.166	219207.926	91.860	0
166		234-20-43	94-47-32	8.871	1.600	2656838.006	219206.824	91.384	10
167		261-40-18	95-43-13	7.248	1.600	2656834.051	219207.937	91.403	10

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 18 頁 共 47 頁

測站 = L4		N = 2656831.038		E = 219201.385		EL = 92.220			
後視 = LA6		N = 2656744.021		E = 219226.943		IH = 1.505 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 163-37-53		至後視距離 = 90.693 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
168		294-59-09	94-53-42	7.880	1.600	2656829.861	219209.147	91.453	10
169		308-01-18	91-06-43	8.419	1.600	2656827.932	219209.208	91.962	630
170		319-58-12	93-14-50	10.895	1.600	2656825.018	219210.445	91.508	10
171		328-01-05	90-24-51	11.438	1.600	2656823.437	219209.931	92.042	0
172		331-43-55	92-10-25	14.837	1.600	2656820.488	219211.802	91.562	10
173		338-36-30	89-43-24	15.626	1.600	2656818.684	219210.953	92.200	0
174		338-58-06	91-32-41	19.442	1.600	2656815.598	219213.189	91.601	10
175		342-39-15	89-59-17	21.831	1.600	2656812.878	219213.502	92.130	630
176		343-53-44	91-08-40	25.014	1.600	2656809.939	219214.812	91.625	10
177		346-32-24	89-57-50	27.632	1.600	2656807.066	219215.129	92.142	630
178		346-46-53	90-53-00	30.021	1.600	2656804.934	219216.206	91.662	10
179		348-25-04	90-41-33	33.488	1.600	2656801.458	219217.080	91.720	10
180		348-47-22	89-54-02	32.626	1.600	2656802.119	219216.490	92.182	630
181		349-22-41	90-30-49	36.523	1.600	2656798.494	219217.960	91.798	10
182		349-22-42	89-43-25	37.619		2656797.516	219218.458		5
183		349-36-09	89-44-03	38.324	1.600	2656796.820	219218.644	92.303	62
184		350-15-56	90-24-29	39.285	1.600	2656795.761	219218.669	91.845	10
185		350-43-17	89-43-25	38.196	1.600	2656796.605	219217.917	92.309	630
186		351-52-33	89-38-44	42.702	1.600	2656792.179	219219.088	92.389	630
187		351-07-12	90-19-00	42.809	1.600	2656792.319	219219.645	91.889	10
188		3-51-08	89-52-05	16.515		2656814.915	219204.964		280
189		175-21-13	90-23-00	19.690	1.600	2656849.418	219194.324	91.993	0
190		177-40-43	91-06-40	23.882	1.600	2656853.656	219193.733	91.662	0
191		176-31-12	91-01-09	28.171	1.600	2656857.531	219191.821	91.624	0
192		170-56-04	91-06-27	30.930	1.600	2656858.965	219188.104	91.527	0
193		173-25-04	91-05-33	35.646	1.600	2656863.856	219187.488	91.445	0
194		177-45-57	90-57-48	36.382	1.600	2656865.514	219189.780	91.513	0
195		177-47-18	90-56-45	41.419	1.600	2656870.293	219188.189	91.441	0
196		175-02-33	90-58-20	45.453	1.600	2656873.372	219184.857	91.354	0
197		172-52-22	91-02-02	41.279	1.600	2656868.888	219184.930	91.380	0
198		171-56-34	91-04-57	38.121	1.600	2656865.741	219185.624	91.405	0
199		170-07-45	91-08-35	34.935	1.600	2656862.367	219185.942	91.428	0
200		167-07-48	91-15-00	31.741	1.600	2656858.728	219185.885	91.433	0
201		163-16-43	91-22-37	28.287	1.600	2656854.730	219185.946	91.445	0
202		158-11-27	91-18-48	25.244	1.600	2656850.877	219185.786	91.546	0
203		152-39-06	90-59-13	23.373	1.600	2656847.928	219185.234	91.722	0
204		143-23-24	91-29-55	22.401	1.600	2656844.521	219183.506	91.539	0
205		133-31-38	91-56-38	20.863	1.600	2656840.555	219182.833	91.417	0
206		150-26-16	91-25-57	28.812	1.600	2656851.071	219180.690	91.405	0
207		152-46-30	91-23-28	32.508	1.600	2656854.575	219178.976	91.336	0
208		157-42-33	91-13-28	35.338	1.600	2656858.626	219179.315	91.370	0
209		161-56-55	91-15-16	35.438	1.600	2656860.264	219181.358	91.349	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 19 頁 共 47 頁

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三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 20 頁 共 47 頁

測站 = L3A		N = 2656842.139		E = 219173.565		EL = 91.342			
後視 = L3		N = 2656811.901		E = 219169.157		IH = 1.513 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 188-17-38		至後視距離 = 30.558 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
L3		0-00-00	89-39-07	30.559	1.643	2656811.900	219169.157	91.398	2
1		309-17-46	97-23-31	10.967	.000	2656834.109	219180.900	91.444	0
2		321-04-39	98-19-14	9.217	.000	2656834.292	219178.211	91.521	0
3		338-16-58	101-04-33	7.305	.000	2656835.166	219175.229	91.452	0
4		329-59-59	108-31-09	4.530	.000	2656838.148	219175.154	91.416	0
5		306-18-03	102-29-31	6.458	.000	2656837.712	219178.055	91.458	0
6		294-42-45	99-21-53	8.819	.000	2656837.399	219180.862	91.420	0
7		295-33-48	124-18-05	2.586	.000	2656840.949	219175.339	91.398	0
8		280-13-25	105-34-02	5.209	.000	2656840.545	219178.323	91.457	0
9		277-38-37	100-39-23	7.688	.000	2656840.065	219180.830	91.433	0
10		257-33-17	100-39-21	7.510	.000	2656842.673	219180.926	91.466	0
11		257-33-15	108-19-35	4.492	.000	2656842.448	219177.818	91.443	0
12		235-24-42	122-21-35	2.716	.000	2656843.155	219175.622	91.401	0
13		225-57-33	99-23-37	8.779	.000	2656847.199	219180.595	91.422	0
14		202-28-28	101-13-12	7.958	.000	2656848.846	219177.558	91.307	0
15		202-28-27	101-13-13	7.957	.000	2656848.845	219177.558	91.307	0
16		169-24-38	104-11-06	6.393	.000	2656848.332	219173.317	91.288	0
17		169-24-44	124-29-09	2.667	.000	2656844.336	219173.477	91.345	0
18		230-16-28	104-15-47	5.756	.000	2656845.048	219178.325	91.437	0
19		170-59-33	99-04-56	9.922	.000	2656851.936	219173.443	91.289	0
20		172-49-24	96-33-07	13.946	.000	2656855.991	219173.835	91.264	0
21		173-16-15	95-03-06	17.948	.000	2656860.011	219174.053	91.275	0
22		173-12-20	94-19-52	21.147	.000	2656863.219	219174.117	91.258	0
23		178-28-48	94-07-40	21.311	.000	2656863.246	219176.072	91.321	0
24		177-08-47	95-53-43	15.370	.000	2656857.359	219175.015	91.276	0
25		191-34-48	94-49-38	17.019	.000	2656858.088	219179.330	91.423	0
26		179-25-50	100-22-25	8.698	.000	2656850.617	219174.715	91.289	0
27		150-09-21	102-10-29	7.264	.000	2656848.743	219170.957	91.323	0
28		143-11-28	105-43-48	5.650	.000	2656846.918	219170.969	91.323	0
29		129-26-04	99-33-42	8.940	.000	2656848.663	219167.635	91.370	0
30		119-40-18	102-37-04	6.798	.000	2656846.220	219168.335	91.370	0
31		105-13-24	105-18-04	5.636	.000	2656844.308	219168.580	91.368	0
32		103-14-50	100-18-47	8.365	.000	2656845.161	219165.910	91.358	0
33		121-39-02	99-02-14	9.547	.000	2656848.193	219166.337	91.355	0
34		90-55-45	95-43-30	14.339	.000	2656844.426	219159.482	91.425	0
35		89-51-31	94-21-33	18.820	.000	2656844.800	219154.989	91.425	0
36		90-33-09	95-02-38	16.374	.000	2656844.648	219157.449	91.415	0
37		89-08-25	93-41-07	22.199	.000	2656845.005	219151.598	91.428	0
38		88-39-31	93-17-51	25.300	.000	2656845.197	219148.493	91.400	0
39		88-23-33	92-58-05	28.286	.000	2656845.428	219145.509	91.390	0
40		88-04-38	92-39-56	31.241	.000	2656845.602	219142.551	91.402	0
41		74-45-56	94-30-01	18.008	.000	2656839.970	219155.744	91.442	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 21 頁 共 47 頁

測站 = L3A		N = 2656842.139		E = 219173.565		EL = 91.342			
後視 = L3		N = 2656811.901		E = 219169.157		IH = 1.513 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 188-17-38		至後視距離 = 30.558 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
42		72-24-09	95-40-42	14.098	.000	2656839.871	219159.721	91.460	0
43		75-59-58	93-29-21	23.070	.000	2656839.849	219150.652	91.451	0
44		76-54-57	92-52-37	29.358	.000	2656839.691	219144.346	91.382	0
45		71-22-36	92-41-25	31.490	.000	2656836.499	219142.620	91.377	0
46		68-43-00	93-09-31	26.277	.000	2656836.242	219147.999	91.407	0
47		66-39-27	93-47-08	21.962	.000	2656836.449	219152.403	91.405	0
48		62-30-34	94-23-13	19.305	.000	2656835.810	219155.387	91.378	0
49		59-16-15	95-46-29	14.575	.000	2656836.605	219160.162	91.389	0
50		63-04-11	89-31-42	14.852		2656837.393	219159.492		54
51		79-44-47	91-33-59	13.754		2656841.669	219159.824		54
52		81-19-05	91-34-10	18.598		2656842.013	219154.974		54
53		82-36-29	91-34-03	23.768		2656842.513	219149.809		54
54		71-33-14	91-33-44	31.345		2656836.616	219142.722		54
55		74-27-12	89-37-05	31.081		2656838.215	219142.733		54
56		77-21-03	91-51-35	30.924		2656839.792	219142.747		54
57		86-44-24	91-30-12	31.033		2656844.861	219142.662		54
58		84-01-23	89-54-28	30.716		2656843.381	219142.874		54
59		97-48-23	90-45-42	34.301		2656851.651	219140.612		54
60		107-24-13	90-45-44	24.688		2656852.843	219151.321		54
61		92-12-48	95-23-59	16.504	.000	2656845.135	219157.410	91.302	0
62		91-12-34	94-31-55	19.353	.000	2656845.324	219154.537	91.326	0
63		90-27-51	93-52-23	22.423	.000	2656845.546	219151.454	91.341	0
64		89-52-17	93-26-41	25.549	.000	2656845.761	219148.321	91.320	0
65		89-23-42	93-02-32	28.713	.000	2656845.975	219145.150	91.331	0
66		88-57-23	92-39-42	32.629	.000	2656846.253	219141.232	91.340	0
67		88-33-10	92-26-41	35.136	.000	2656846.324	219138.711	91.356	0
68		93-07-29	92-27-06	34.204	.000	2656848.905	219140.069	91.392	0
69		93-17-07	92-42-34	30.791	.000	2656848.313	219143.434	91.400	0
70		94-20-57	93-07-37	26.725	.000	2656847.980	219147.527	91.397	0
71		94-38-04	93-30-06	23.891	.000	2656847.474	219150.323	91.396	0
72		96-11-43	94-08-49	20.337	.000	2656847.214	219153.926	91.384	0
73		97-51-57	95-08-03	16.563	.000	2656846.730	219157.720	91.373	0
74		100-50-24	96-28-36	13.185	.000	2656846.433	219161.188	91.368	0
75		103-17-03	93-50-30	22.262	.000	2656850.308	219152.910	91.364	0
76		103-42-23	94-57-56	17.262	.000	2656848.581	219157.620	91.361	0
77		107-40-28	93-47-15	22.250	.000	2656851.861	219153.605	91.385	0
78		99-43-38	93-10-03	27.202	.000	2656850.542	219147.737	91.352	0
79		98-38-22	92-53-58	29.687	.000	2656850.775	219145.202	91.353	0
80		97-45-38	92-41-45	31.822	.000	2656850.930	219143.018	91.358	0
81		96-35-03	92-26-17	34.677	.000	2656851.035	219140.081	91.380	0
82		95-41-42	92-17-03	37.706	.000	2656851.247	219137.006	91.352	0
83		94-58-05	92-08-11	41.056	.000	2656851.551	219133.632	91.325	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 22 頁 共 47 頁

測站 = L3A		N = 2656842.139		E = 219173.565		EL = 91.342			
後視 = L3		N = 2656811.901		E = 219169.157		IH = 1.513 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 188-17-38		至後視距離 = 30.558 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
84		94-33-47	92-06-04	41.999	.000	2656851.478	219132.647	91.315	0
85		93-17-37	91-45-36	49.798	.000	2656852.137	219124.805	91.326	0
86		92-41-22	91-37-02	54.840	.000	2656852.583	219119.751	91.308	0
87		103-58-05	93-02-05	26.581	.000	2656852.195	219149.000	91.448	0
88		173-37-40	90-07-06	15.582		2656857.712	219174.088		231
89		170-12-42	89-59-34	15.660		2656857.794	219173.157		230
90		169-44-24	90-03-59	14.627		2656856.758	219173.063		233
91		170-44-19	90-17-25	14.792	1.800	2656856.929	219173.315	90.980	10
92		170-44-22	90-17-25	14.867	1.600	2656857.004	219173.314	91.180	0
93		173-59-53	90-03-46	20.834		2656862.956	219174.398		5
94		172-55-41	90-31-11	20.162	1.600	2656862.296	219173.995	91.072	10
95		172-55-48	90-02-58	20.490	1.600	2656862.624	219174.003	91.237	0
96		108-10-12	90-00-26	17.086		2656849.753	219158.269		355
97		108-08-05	89-51-36	17.977		2656850.140	219157.467		350
98		109-48-09	89-42-14	18.709		2656850.950	219157.061		356
99		103-59-55	89-43-01	22.200		2656850.560	219153.025		751
100		104-31-10	89-38-42	22.654	1.600	2656850.923	219152.684	91.395	0
101		109-25-33	89-43-48	20.968	1.600	2656851.892	219155.004	91.354	0
102		110-17-53	89-37-36	23.903	1.600	2656853.578	219152.577	91.411	0
103		110-24-44	89-45-32	28.252	1.600	2656855.709	219148.786	91.374	0
104		102-26-14	89-35-23	27.733	1.600	2656851.956	219147.628	91.454	0
105		73-52-03	89-21-15	23.097	1.600	2656838.989	219150.685	91.515	21
106		74-43-12	89-38-06	23.542		2656839.276	219150.198		281
107		73-30-12	89-38-15	23.616		2656838.770	219150.191		280
108		72-56-12	89-37-15	22.647		2656838.687	219151.183		283
109		64-18-20	89-20-08	17.202		2656836.995	219157.151		12
110		60-39-01	89-42-56	17.901		2656835.708	219156.860		441
111		54-53-20	89-39-58	14.480		2656835.607	219160.643		440
112		64-52-35	89-39-48	18.561		2656836.765	219155.799		231
113		66-01-43	89-39-42	19.634		2656836.834	219154.662		230
114		69-19-06	89-34-24	19.276		2656838.004	219154.738		233
115		67-09-00	89-27-07	18.930	2.280	2656837.382	219155.244	90.756	10
116		67-09-00	89-27-08	18.946	1.600	2656837.378	219155.228	91.436	0
117		70-01-36	89-39-40	23.857		2656837.310	219150.202		231
118		70-46-50	89-39-40	24.936		2656837.413	219149.081		230
119		73-22-06	89-41-12	24.633		2656838.567	219149.193		233
120		71-45-00	89-34-35	24.289	2.100	2656837.940	219149.643	90.935	10
121		71-45-07	89-34-34	24.302	1.600	2656837.938	219149.630	91.435	0
122		74-31-33	89-42-38	29.722	2.040	2656838.424	219144.077	90.965	10
123		74-31-30	89-42-37	29.724	1.600	2656838.424	219144.075	91.405	0
124		73-13-30	89-46-54	29.292		2656837.819	219144.594		231
125		75-29-42	89-48-24	29.005		2656839.001	219144.730		230

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 23 頁 共 47 頁

測站 = L3A		N = 2656842.139		E = 219173.565		EL = 91.342			
後視 = L3		N = 2656811.901		E = 219169.157		IH = 1.513 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 188-17-38		至後視距離 = 30.558 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
126		75-57-53	89-50-10	30.213		2656839.117	219143.504		233
127		72-59-35	90-13-16	31.841	1.600	2656837.316	219142.092	91.132	0
128		71-19-50	89-56-47	30.479		2656836.650	219143.584		311
129		70-53-01	89-50-05	29.422		2656836.615	219144.667		310
130		83-40-37	89-51-21	29.961	1.600	2656843.170	219143.622	91.331	0
131		89-53-32	89-55-34	31.387		2656846.608	219142.498		231
132		89-43-38	89-55-34	32.280		2656846.643	219141.601		230
133		88-16-06	89-56-09	32.221		2656845.821	219141.555		233
134		89-01-20	89-53-36	31.845	2.040	2656846.194	219141.979	90.874	10
135		89-01-19	89-53-36	31.843	1.600	2656846.194	219141.981	91.314	0
136		88-36-20	89-52-56	31.438		2656845.916	219142.355		360
137		87-58-12	92-00-49	32.232		2656845.654	219141.545		360
138		87-56-40	91-38-00	32.036		2656845.619	219141.732		291
139		87-53-19	91-34-58	32.505		2656845.638	219141.261		290
140		85-59-46	89-32-29	35.396	1.600	2656844.787	219138.269	91.538	0
141		78-54-24	89-44-21	35.800	1.000	2656840.391	219137.808	92.018	0
142		75-11-13	89-24-47	35.936	1.000	2656838.059	219137.863	92.223	0
143		74-07-22	90-12-22	33.078		2656837.774	219140.777		290
144		75-39-29	90-08-51	38.566		2656838.076	219135.214		291
145		87-24-34	91-24-37	38.213		2656845.936	219135.553		290
146		87-22-50	91-22-45	38.651		2656845.960	219135.115		290
147		87-24-07	91-23-15	38.423		2656845.951	219135.343		365
148		87-42-46	91-31-20	38.901		2656846.209	219134.891		360
149		87-47-01	91-28-35	39.294		2656846.298	219134.505		366
150		88-51-37	89-53-25	38.499		2656846.934	219135.366		231
151		88-49-23	89-53-26	39.400		2656847.021	219134.469		230
152		88-32-41	89-54-03	38.996	2.200	2656846.783	219134.847	90.723	10
153		88-32-38	89-54-03	39.013	1.600	2656846.784	219134.830	91.323	0
154		74-46-15	86-44-27	32.626		2656838.206	219141.230		331
155		76-28-28	86-56-20	38.944		2656838.593	219134.839		330
156		76-21-57	88-37-28	38.147	1.600	2656838.590	219135.595	92.171	0
157		84-26-49	89-24-24	37.714	1.600	2656843.943	219135.896	91.646	0
158		96-05-58	89-48-05	32.847		2656850.304	219141.749		5
159		96-58-24	89-49-40	32.480	2.350	2656850.692	219142.232	90.603	10
160		96-58-20	89-49-40	32.486	1.600	2656850.693	219142.226	91.353	0
BH-7		100-04-36	89-42-26	32.094	1.600	2656852.254	219143.107	91.419	7
1		105-28-23	89-49-04	33.919	1.600	2656855.809	219142.523	91.363	0
2		100-14-50	89-36-42	36.158	1.750	2656853.637	219139.285	91.350	0
3		98-25-09	89-53-43	40.173	1.600	2656853.692	219135.089	91.329	0
4		95-39-57	89-51-32	44.112	1.600	2656852.781	219130.756	91.364	0
5		94-06-24	89-56-03	43.001		2656851.373	219131.567		5
6		94-41-22	89-56-05	42.643	1.600	2656851.720	219132.012	91.304	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 24 頁 共 47 頁

[illegible]

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 25 頁 共 47 頁

測站 = L2A		N = 2656850.612		E = 219111.317		EL = 91.363			
後視 = L2		N = 2656795.108		E = 219111.411		IH = 1.484 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 179-54-08		至後視距離 = 55.504 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
L2		360-00-00	89-44-26	55.507	1.633	2656795.106	219111.411	91.466	2
1		350-03-21	89-44-28	19.870		2656831.047	219114.781		33
2		334-44-14	92-20-41	12.319		2656839.490	219116.589		54
3		318-42-48	92-20-54	8.252		2656844.426	219116.768		54
4		350-22-56	89-46-43	21.641		2656829.282	219114.969		54
5		301-24-41	92-11-33	12.187		2656844.283	219121.721		54
6		292-57-37	92-11-27	16.688		2656844.133	219126.683		54
7		318-36-43	92-11-35	8.257		2656844.431	219116.782		54
8		292-42-25	92-11-38	16.712		2656844.192	219126.733		54
9		289-18-52	92-11-36	21.612		2656843.504	219131.710		54
10		283-01-03	93-28-27	22.450		2656845.602	219133.158		54
11		286-27-15	92-20-33	23.739		2656843.932	219134.076		54
12		291-14-39	92-20-32	24.325		2656841.844	219133.985		54
13		294-01-57	89-56-59	24.984		2656840.476	219134.152		54
14		297-40-09	93-08-34	25.613		2656838.775	219133.987		54
15		300-28-12	83-48-48	25.556		2656837.766	219133.237		54
16		282-36-01	89-28-22	22.993		2656845.635	219133.764		33
17		252-10-49	97-13-49	9.993		2656853.662	219120.750		54
18		249-53-15	83-46-53	44.543		2656865.910	219152.871		54
19		246-09-41	86-27-11	44.194		2656868.508	219151.633		54
20		256-20-21	91-22-29	41.360		2656860.446	219151.478		54
21		258-04-53	91-14-26	45.816		2656860.148	219156.118		54
22		261-48-45	90-43-33	40.293		2656856.418	219151.186		54
23		266-47-18	88-38-23	39.689		2656852.903	219150.928		54
24		267-54-21	91-12-25	28.706		2656851.710	219139.995		54
25		252-13-54	97-04-11	9.992		2656853.654	219120.755		54
26		202-01-35	91-57-15	34.069		2656882.198	219124.033		54
27		170-01-10	91-11-46	27.399		2656877.582	219106.523		54
28		168-16-59	90-57-03	31.125		2656881.073	219104.945		54
29		169-08-46	90-47-23	37.562		2656887.486	219104.181		54
30		162-10-06	90-48-21	37.820		2656886.592	219099.675		54
31		161-20-31	90-48-23	28.560		2656877.653	219102.135		54
32		156-09-00	90-48-29	33.736		2656881.441	219097.625		54
33		154-40-50	90-47-26	38.758		2656885.615	219094.683		54
34		148-41-14	92-04-30	35.664		2656881.030	219092.742		54
35		147-44-29	90-56-11	40.474		2656884.797	219089.659		54
36		86-31-52	95-25-25	12.963		2656849.809	219098.437		54
37		135-18-00	91-18-26	40.606		2656879.418	219082.713		54
38		133-55-14	91-18-34	37.105		2656876.298	219084.553		54
39		137-12-04	91-18-34	32.349		2656874.304	219089.303		54
40		141-28-44	91-18-22	37.841		2656880.170	219087.705		54
41		129-44-19	91-44-57	33.891		2656872.224	219085.231		54

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 26 頁 共 47 頁

測站 = L2A		N = 2656850.612		E = 219111.317		EL = 91.363			
後視 = L2		N = 2656795.108		E = 219111.411		IH = 1.484 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 179-54-08		至後視距離 = 55.504 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
42		330-39-46	89-52-54	15.478		2656837.132	219118.923		3
43		347-34-09	81-21-06	23.524		2656827.909	219116.362		201
44		340-40-27	83-19-26	16.642		2656835.024	219116.814		200
45		349-49-10	69-17-02	32.584		2656820.624	219116.755		701
46		332-11-08	50-08-18	17.969		2656838.424	219117.773		700
47		255-47-03	90-58-41	49.009		2656862.727	219158.797		3
48		257-41-25	82-43-38	47.734		2656860.786	219157.561		5
49		279-09-35	93-04-22	27.928	.000	2656846.220	219138.857	91.350	0
50		279-46-13	93-30-58	24.543	.000	2656846.496	219135.465	91.342	0
51		280-11-16	94-00-37	21.631	.000	2656846.832	219132.561	91.335	0
52		281-26-06	94-47-26	17.993	.000	2656847.087	219128.897	91.345	0
53		282-53-32	95-36-43	15.429	.000	2656847.212	219126.291	91.339	0
54		284-48-52	96-42-12	12.744	.000	2656847.397	219123.558	91.360	0
55		284-48-53	96-42-12	12.744	.000	2656847.397	219123.558	91.360	0
56		287-50-05	98-19-05	10.323	.000	2656847.500	219121.046	91.354	0
57		292-29-53	101-05-06	7.757	.000	2656847.711	219118.355	91.356	0
58		302-52-14	106-36-40	5.216	.000	2656847.906	219115.519	91.356	0
59		273-56-40	108-04-39	4.739	.000	2656850.310	219115.812	91.377	0
60		273-56-49	100-22-15	8.117	.000	2656850.076	219119.283	91.386	0
61		273-56-48	96-35-18	12.757	.000	2656849.761	219123.961	91.384	0
62		273-56-55	94-53-57	17.393	.000	2656849.448	219128.607	91.362	0
63		273-56-50	95-53-19	14.367	.000	2656849.653	219125.576	91.373	0
64		273-56-46	94-19-26	19.572	.000	2656849.302	219130.789	91.372	0
65		273-56-44	93-37-26	23.223	.000	2656849.057	219134.441	91.380	0
66		273-56-47	93-09-08	26.739	.000	2656848.820	219137.955	91.377	0
67		251-40-39	124-38-55	2.583	.000	2656851.283	219113.333	91.379	0
68		284-20-14	94-12-14	19.955	.000	2656845.717	219130.607	91.385	0
69		287-50-17	95-31-49	14.894	.000	2656846.095	219125.437	91.412	0
70		293-17-20	97-31-01	10.850	.000	2656846.376	219121.204	91.428	0
71		299-42-27	100-08-29	8.108	.000	2656846.669	219118.256	91.420	0
72		307-49-16	103-45-10	6.017	.000	2656847.036	219115.940	91.417	0
73		326-42-40	100-20-17	7.795	.000	2656844.209	219115.537	91.449	0
74		336-56-49	97-34-04	10.684	.000	2656840.874	219115.481	91.440	0
75		343-06-45	95-57-01	13.552	.000	2656837.721	219115.254	91.443	0
76		346-57-26	94-56-31	16.399	.000	2656834.702	219115.031	91.435	0
77		339-40-11	94-40-29	17.695	.000	2656834.085	219117.472	91.405	0
78		348-44-33	94-20-57	18.375	.000	2656832.649	219114.924	91.454	0
79		333-37-30	95-32-28	14.737	.000	2656837.482	219117.855	91.424	0
80		323-32-34	97-16-40	10.773	.000	2656842.028	219117.681	91.483	0
81		323-38-22	95-24-47	15.342	.000	2656838.328	219120.393	91.400	0
82		314-45-36	96-21-04	12.487	.000	2656841.888	219120.144	91.466	0
83		307-03-13	98-16-06	9.594	.000	2656844.904	219118.904	91.468	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 27 頁 共 47 頁

測站 = L2A		N = 2656850.612		E = 219111.317		EL = 91.363			
後視 = L2		N = 2656795.108		E = 219111.411		IH = 1.484 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 179-54-08		至後視距離 = 55.504 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
84		295-28-13	95-38-05	14.509	.000	2656844.425	219124.363	91.423	0
85		304-10-23	94-49-21	17.456	.000	2656840.866	219125.724	91.380	0
86		308-50-02	94-21-31	20.091	.000	2656838.077	219126.943	91.321	0
87		297-11-57	94-03-14	21.765	.000	2656840.721	219130.644	91.309	0
88		288-26-31	94-16-09	19.301	.000	2656844.554	219129.586	91.411	0
89		288-11-45	93-35-13	24.031	.000	2656843.162	219134.114	91.344	0
90		296-14-27	93-32-08	24.776	.000	2656839.716	219133.516	91.320	0
91		300-14-01	93-27-26	25.947	.000	2656837.609	219133.716	91.283	0
92		164-47-08	104-54-03	5.777	.000	2656855.997	219109.843	91.362	0
93		173-35-40	98-29-06	10.429	.000	2656860.860	219110.149	91.309	0
94		212-59-11	110-33-09	4.273	.000	2656853.972	219113.489	91.347	0
95		187-45-31	100-43-15	8.109	.000	2656858.508	219112.379	91.339	0
96		248-23-06	100-20-41	8.150	.000	2656853.578	219118.765	91.384	0
97		219-59-22	96-40-31	13.225	.000	2656860.690	219119.741	91.310	0
98		220-59-05	94-33-00	20.224	.000	2656865.853	219124.513	91.243	0
99		163-26-16	98-33-33	10.746	.000	2656860.792	219108.270	91.248	0
100		163-25-29	96-36-16	13.746	.000	2656863.693	219107.399	91.266	0
101		255-29-43	89-59-52	53.874	1.600	2656864.194	219163.451	91.250	0
102		255-33-39	89-57-26	58.027	1.600	2656865.177	219167.486	91.291	0
103		254-51-08	90-01-32	50.596	1.600	2656863.917	219160.132	91.225	0
104		255-11-46	89-58-54	47.816	1.600	2656862.908	219157.525	91.263	0
105		258-58-29	89-54-13	46.604	1.600	2656859.603	219157.045	91.326	0
106		262-34-28	89-50-43	46.138	1.600	2656856.653	219157.057	91.372	0
107		262-28-11	89-50-12	42.889	1.600	2656856.305	219153.826	91.370	0
108		266-01-55	89-51-35	44.178	1.600	2656853.744	219155.383	91.356	0
109		263-13-06	89-46-19	41.693	1.600	2656855.606	219152.709	91.414	0
110		262-22-07	89-50-06	46.734		2656856.897	219157.626		350
111		261-23-44	89-50-46	44.923		2656857.409	219155.722		351
112		260-43-11	89-43-15	42.722		2656857.573	219153.467		350
113		257-53-36	89-48-35	38.872	1.600	2656858.829	219149.310	91.377	0
114		265-02-24	89-51-44	46.143		2656854.680	219157.280		289
115		264-48-40	89-51-26	46.244		2656854.873	219157.364		280
116		264-43-39	89-42-19	46.432		2656854.958	219157.544		286
117		259-55-06	89-49-47	36.968	1.600	2656857.145	219147.703	91.357	0
118		253-46-54	89-49-57	38.107	1.600	2656861.318	219147.889	91.359	0
BH-3		255-23-28	89-49-59	33.460	1.600	2656859.106	219143.680	91.345	7
1		243-07-14	88-36-24	39.539	2.500	2656868.543	219146.543	91.309	0
2		243-05-49	88-45-56	45.292	2.500	2656871.170	219151.663	91.323	0
3		240-50-03	88-54-22	49.687	2.500	2656874.896	219154.655	91.296	0
4		244-26-44	88-55-26	50.402	2.500	2656872.428	219156.743	91.294	0
5		241-35-49	89-01-07	53.553	2.500	2656876.162	219158.373	91.265	0
6		238-07-51	89-00-49	55.209	2.500	2656879.837	219158.147	91.298	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 28 頁 共 47 頁

測站 = L2A		N = 2656850.612		E = 219111.317		EL = 91.363			
後視 = L2		N = 2656795.108		E = 219111.411		IH = 1.484 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 179-54-08		至後視距離 = 55.504 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
7		238-29-18	89-01-02	58.988	2.600	2656881.525	219161.546	91.259	0
8		234-55-56	89-57-15	56.965	1.600	2656883.420	219157.885	91.293	0
9		234-35-25	89-55-50	52.645	1.600	2656881.189	219154.172	91.311	0
10		235-01-59	89-55-34	48.797	1.600	2656878.646	219151.257	91.311	0
11		235-19-34	89-57-11	45.266	1.600	2656876.428	219148.500	91.285	0
12		238-03-29	89-57-15	42.484	1.600	2656873.150	219147.330	91.282	0
BH-6		233-28-25	89-55-03	41.840	1.600	2656875.572	219144.896	91.308	7
1		230-20-13	89-58-09	40.993	1.600	2656876.830	219142.829	91.270	0
2		225-08-36	89-55-17	41.592	1.600	2656879.999	219140.750	91.305	0
3		220-24-32	89-57-39	42.882	1.600	2656883.311	219139.059	91.277	0
4		218-45-41	89-57-52	40.513	1.600	2656882.246	219136.627	91.273	0
5		221-50-12	89-55-27	37.480	1.600	2656878.579	219136.269	91.297	0
6		225-37-06	89-55-23	35.078	1.600	2656875.189	219136.345	91.295	0
7		229-18-00	89-51-08	33.207	1.600	2656872.309	219136.455	91.333	0
8		235-36-43	89-49-59	33.406	1.600	2656869.526	219138.852	91.345	101
9		236-24-19	90-09-54	30.533	1.600	2656867.550	219136.721	91.160	87
10		240-47-33	89-49-56	32.315	1.600	2656866.429	219139.496	91.342	0
11		254-16-45	89-32-21	27.965	1.700	2656858.235	219138.222	91.372	0
12		253-33-51	89-58-57	23.630	1.600	2656857.337	219133.970	91.255	0
13		240-07-40	90-20-02	21.449	1.600	2656861.327	219129.897	91.122	0
14		242-43-35	89-55-32	19.860	1.600	2656859.743	219128.953	91.273	0
15		233-00-56	90-06-12	22.102	1.600	2656863.939	219128.949	91.208	0
16		225-41-26	90-02-09	24.536	1.600	2656867.781	219128.845	91.232	0
17		222-21-54	89-51-51	26.102	1.600	2656869.928	219128.873	91.309	0
18		228-42-23	89-50-11	29.156	1.600	2656869.890	219133.190	91.331	0
19		232-48-12	90-00-04	27.429	1.600	2656867.232	219133.137	91.247	0
20		221-29-47	89-51-07	30.978	1.600	2656873.849	219131.802	91.328	0
21		217-21-51	89-59-20	33.438	1.600	2656877.223	219131.564	91.254	0
22		213-23-43	90-00-39	36.619	1.600	2656881.219	219131.420	91.241	0
23		210-07-41	90-02-01	40.146	1.600	2656885.369	219131.408	91.224	0
24		208-09-19	90-07-52	42.479	1.600	2656888.099	219131.297	91.150	0
25		200-29-55	90-04-51	40.263	1.600	2656888.350	219125.352	91.191	0
26		200-14-36	90-00-33	37.821	1.600	2656886.119	219124.343	91.241	0
27		207-07-38	89-59-06	35.681	1.600	2656882.396	219127.532	91.257	0
28		209-54-30	89-54-41	32.729	1.600	2656879.010	219127.587	91.298	0
29		214-09-32	89-53-42	29.495	1.600	2656875.047	219127.836	91.302	0
30		217-36-38	89-57-19	26.888	1.600	2656871.940	219127.690	91.268	0
31		218-40-06	89-51-04	23.797	1.600	2656869.217	219126.154	91.309	0
32		223-49-09	90-14-37	22.263	1.600	2656866.702	219126.704	91.153	0
33		213-35-50	89-57-28	21.850	1.600	2656868.833	219123.376	91.264	110
34		217-46-49	90-10-03	18.605	1.600	2656865.336	219122.690	91.193	0
35		224-17-36	90-15-03	18.306	1.600	2656863.737	219124.078	91.167	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 29 頁 共 47 頁

測站 = L2A		N = 2656850.612		E = 219111.317		EL = 91.363			
後視 = L2		N = 2656795.108		E = 219111.411		IH = 1.484 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 179-54-08		至後視距離 = 55.504 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
36		232-46-46	90-01-43	15.534	1.600	2656860.029	219123.671	91.240	113
37		238-45-51	90-06-01	16.397	1.600	2656859.139	219125.322	91.219	115
38		237-45-18	90-06-09	16.480		2656859.429	219125.240		110
39		236-35-26	90-08-05	16.331		2656859.627	219124.934		116
40		235-25-19	90-09-17	15.744		2656859.569	219124.264		110
41		237-51-35	91-20-45	15.796	1.600	2656859.036	219124.674	90.876	0
42		238-13-51	90-06-08	14.538	1.600	2656858.287	219123.664	91.222	0
43		244-37-40	87-33-49	14.587	2.600	2656856.879	219124.474	90.868	0
44		259-33-19	89-43-51	12.285		2656852.860	219123.394		110
45		243-21-14	88-31-01	11.443	1.600	2656855.760	219121.532	91.544	0
46		231-53-34	89-54-06	10.624	1.600	2656857.183	219119.665	91.266	0
BH-5		200-09-33	89-47-08	10.328	1.600	2656860.313	219114.860	91.286	7
1		217-43-15	90-03-53	13.686	1.600	2656861.452	219119.672	91.232	0
2		209-53-18	90-04-00	17.561	1.600	2656865.852	219120.042	91.227	0
3		204-49-17	90-04-10	21.039	1.600	2656869.722	219120.116	91.222	0
4		201-11-50	90-11-58	24.496	1.600	2656873.466	219120.135	91.162	0
5		198-49-18	90-04-55	28.006	1.600	2656877.136	219120.307	91.207	0
6		196-52-25	90-03-12	31.737	1.600	2656880.998	219120.477	91.218	0
7		195-25-07	90-04-55	34.973	1.600	2656884.342	219120.558	91.198	0
8		194-52-04	89-56-45	37.711	1.600	2656887.077	219120.931	91.283	0
9		192-41-33	90-05-53	39.231	1.600	2656888.899	219119.871	91.180	0
10		187-42-47	90-10-47	39.070	1.600	2656889.337	219116.494	91.125	0
11		190-51-45	89-18-47	40.021		2656889.926	219118.791		441
12		198-59-07	90-19-35	41.472		2656889.850	219124.742		440
13		206-14-52	90-23-33	43.612		2656889.759	219130.537		440
14		209-21-37	90-08-23	43.355	1.600	2656888.434	219132.509	91.142	0
15		214-47-16	90-07-36	45.576	1.600	2656888.086	219137.256	91.147	0
16		216-09-06	90-12-15	48.057		2656889.464	219139.600		440
17		221-44-05	89-28-42	51.998		2656889.472	219145.863		440
18		222-48-41	88-52-50	50.674	2.600	2656887.838	219145.684	91.238	0
19		226-52-55	88-57-18	54.915	2.600	2656888.209	219151.331	91.249	0
20		227-13-22	88-57-20	56.588		2656889.108	219152.780		440
21		231-17-42	89-21-25	60.018	2.300	2656888.219	219158.086	91.221	0
22		230-30-06	89-21-18	61.028		2656889.507	219158.339		440
23		278-44-28	91-46-07	43.772	.000	2656844.037	219154.571	91.497	0
24		279-12-05	91-54-45	41.055	.000	2656844.120	219151.832	91.477	0
25		280-39-41	92-44-22	28.682	.000	2656845.360	219139.480	91.477	0
26		71-16-44	93-20-05	26.993	.000	2656841.919	219085.810	91.277	0
27		73-56-32	93-57-26	22.525	.000	2656844.359	219089.733	91.293	0
28		82-12-11	93-33-52	26.261	.000	2656847.012	219085.355	91.215	0
29		82-13-04	94-11-42	21.480	.000	2656847.675	219090.097	91.276	0
30		186-03-36	90-01-45	34.923	1.600	2656885.346	219114.944	91.230	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 30 頁 共 47 頁

[illegible]

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 31 頁 共 47 頁

測站 = LA4		N = 2656900.134		E = 219188.606		EL = 91.583			
後視 = LA2		N = 2656893.775		E = 219141.576		IH = 1.528 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 262-18-01		至後視距離 = 47.458 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
LA2		359-59-59	90-50-51	47.467	1.610	2656893.774	219141.572	90.799	2
1		259-02-47	88-49-14	42.766		2656859.623	219202.282		351
2		259-02-14	88-45-59	41.193		2656861.116	219201.785		350
3		261-21-26	89-11-30	41.213		2656860.590	219200.202		350
4		259-50-07	89-40-16	41.116		2656861.001	219201.219		241
5		259-48-42	89-37-50	38.059		2656863.915	219200.296		245
6		259-43-33	89-37-07	35.759		2656866.120	219199.641		240
7		259-18-42	89-37-06	33.206		2656868.624	219199.081		246
8		261-24-21	89-31-54	39.786		2656861.947	219199.768		355
9		261-27-42	89-26-40	35.968		2656865.602	219198.664		350
10		261-12-02	89-23-45	32.720		2656868.763	219197.898		356
11		260-12-25	89-13-07	29.324		2656872.168	219197.420		350
12		258-15-00	89-11-32	29.587		2656872.238	219198.457		350
13		257-02-42	89-16-15	29.538		2656872.496	219199.025		350
14		257-03-04	89-13-57	29.091		2656872.914	219198.864		350
15		253-43-59	89-05-58	23.495		2656878.667	219198.149		351
16		252-03-31	89-05-02	22.054		2656880.254	219198.149		350
17		252-35-08	89-21-08	21.951		2656880.259	219197.922		350
18		249-22-48	89-36-36	19.701		2656882.791	219197.952		245
19		246-40-31	88-42-33	18.498		2656884.286	219198.138		240
20		241-46-22	88-35-29	16.868		2656886.479	219198.501		246
21		255-17-14	88-34-32	21.527		2656880.239	219196.811		350
22		253-18-53	88-11-46	19.841		2656882.072	219196.794		355
23		250-10-03	87-45-26	18.140		2656884.060	219196.985		350
24		243-38-07	87-50-19	15.931		2656886.946	219197.523		356
25		251-30-10	89-24-41	17.975	1.600	2656884.006	219196.541	91.695	0
26		239-54-23	89-28-20	14.511	1.600	2656888.667	219197.498	91.644	0
27		233-05-54	90-27-45	13.814		2656890.298	219198.306		355
28		221-06-01	90-29-07	12.344		2656893.339	219198.911		350
29		207-19-54	87-43-33	11.001		2656896.440	219198.960		356
30		207-49-23	89-59-44	10.619		2656896.480	219198.577		350
31		191-01-15	89-57-30	10.152		2656899.545	219198.741		350
32		234-10-23	89-43-40	15.280		2656889.055	219199.129		245
33		228-33-27	89-44-50	14.448		2656890.682	219199.534		240
34		217-15-07	89-51-24	13.139		2656893.653	219200.036		246
35		203-10-04	89-46-00	11.875		2656896.967	219200.051		240
36		170-25-21	89-57-59	39.776		2656911.947	219226.587		361
37		167-27-51	89-59-09	29.492	1.600	2656910.334	219216.278	91.518	0
38		166-33-28	89-51-56	25.050	1.600	2656909.169	219211.970	91.570	62
39		163-20-54	88-07-34	24.036		2656910.039	219210.492		360
40		163-43-19	88-17-21	20.862		2656908.608	219207.659		360
41		165-48-42	88-59-07	20.492	1.600	2656907.772	219207.618	91.874	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 32 頁 共 47 頁

測站 = LA4		N = 2656900.134		E = 219188.606		EL = 91.583			
後視 = LA2		N = 2656893.775		E = 219141.576		IH = 1.528 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 262-18-01		至後視距離 = 47.458 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
42		165-16-35	89-06-34	19.763		2656907.671	219206.873		360
43		164-54-09	88-32-10	19.058		2656907.516	219206.170		360
44		176-30-16	88-36-00	17.601		2656903.550	219205.867		360
45		175-08-41	89-03-43	21.146		2656904.730	219209.244		360
46		176-39-49	90-25-17	20.475	1.600	2656904.053	219208.702	91.360	0
47		176-25-42	90-16-34	20.894		2656904.217	219209.097		241
48		175-43-58	91-04-12	20.639	1.600	2656904.412	219208.793	91.125	10
49		176-24-33	91-25-50	18.056	1.600	2656903.668	219206.307	91.060	10
50		177-58-05	90-38-50	17.535		2656903.097	219205.888		240
51		177-34-07	90-40-12	17.552		2656903.221	219205.883		681
52		176-06-49	88-35-00	17.567		2656903.661	219205.810		680
53		175-45-34	90-54-47	23.709	1.600	2656905.038	219211.799	91.133	10
54		176-12-48	90-41-49	27.918	1.600	2656905.693	219215.963	91.171	10
55		176-30-01	90-34-10	31.897	1.600	2656906.328	219219.894	91.194	10
56		151-28-30	90-08-43	23.773	1.600	2656914.182	219207.784	91.451	82
57		143-36-31	89-47-19	27.419	1.600	2656919.212	219208.299	91.612	0
58		136-51-21	90-24-47	30.056	1.600	2656923.439	219207.584	91.294	0
59		164-08-26	88-21-32	15.254		2656906.228	219202.583		280
60		162-08-05	85-51-28	15.513		2656906.810	219202.564		283
61		178-22-44	88-31-23	13.674		2656902.348	219202.095		680
62		180-36-36	88-57-10	13.579		2656901.809	219202.079		682
63		161-56-47	85-23-47	15.659		2656906.915	219202.664		241
64		158-20-35	86-43-15	12.151		2656906.081	219199.179		641
65		157-46-51	88-44-12	12.826	2.600	2656906.529	219199.720	90.794	10
66		151-18-38	86-56-09	13.411		2656908.078	219199.387		640
67		147-39-02	88-28-18	14.900	2.600	2656909.717	219200.008	90.908	10
68		152-18-14	87-17-24	15.291	2.600	2656908.981	219201.057	91.234	87
69		157-58-55	91-05-52	16.940	2.600	2656908.530	219203.316	90.186	10
70		148-52-33	86-14-02	18.408		2656911.649	219202.916		245
71		142-20-24	89-33-06	18.128	2.000	2656913.032	219201.344	91.253	0
72		139-57-16	89-33-49	16.597		2656912.418	219199.766		640
73		132-43-04	89-45-30	19.853		2656916.392	219199.998		640
74		135-44-25	91-13-46	19.438	2.000	2656915.439	219200.582	90.694	10
75		129-58-23	91-04-21	22.441	2.000	2656919.104	219200.587	90.691	10
76		134-30-02	89-39-11	21.490	2.000	2656917.341	219201.479	91.241	0
77		143-52-36	92-34-13	20.442	2.000	2656914.274	219203.340	90.194	10
78		141-35-11	88-16-52	20.570		2656914.952	219202.860		240
79		134-34-47	88-31-50	23.579		2656918.988	219202.752		240
80		128-58-31	89-50-25	25.860	2.000	2656922.236	219202.031	91.183	0
81		127-36-28	88-50-57	27.890		2656924.304	219202.510		246
82		128-17-15	91-50-31	28.318	2.000	2656924.499	219203.009	90.201	10
83		124-23-39	91-42-51	31.880	2.000	2656928.603	219202.921	90.157	10

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 33 頁 共 47 頁

測站 = LA4		N = 2656900.134		E = 219188.606		EL = 91.583			
後視 = LA2		N = 2656893.775		E = 219141.576		IH = 1.528 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 262-18-01		至後視距離 = 47.458 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
84		120-46-54	89-09-35	34.258		2656931.646	219202.035		240
85		122-05-50	89-55-15	32.374	2.000	2656929.617	219201.979	91.156	0
86		117-20-58	90-46-00	33.915	2.000	2656932.071	219200.010	90.657	10
87		115-28-26	90-25-15	33.519	2.000	2656932.052	219198.838	90.865	0
88		119-55-19	89-50-42	29.595		2656927.530	219199.799		646
89		121-57-10	90-55-27	28.344	2.000	2656925.973	219200.247	90.654	10
90		115-57-12	89-51-23	34.593		2656932.986	219199.441		640
91		117-06-41	89-52-12	35.298		2656933.425	219200.338		5
92		124-04-22	90-36-43	24.807	2.000	2656922.357	219199.625	90.846	0
93		139-16-35	89-07-08	28.162		2656921.198	219207.293		151
94		137-51-54	88-42-57	27.328		2656921.012	219206.228		5
95		136-13-29	91-57-19	27.543	2.000	2656921.669	219205.752	90.171	10
96		137-37-31	91-24-59	28.263	2.000	2656921.801	219206.740	90.412	10
97		134-51-51	88-14-56	30.706		2656924.592	219207.147		150
98		135-40-57	88-24-30	30.982	2.500	2656924.544	219207.666	91.471	0
99		127-34-08	90-21-00	34.742	2.500	2656930.260	219205.908	90.399	10
100		126-04-13	90-51-54	34.468	2.500	2656930.458	219204.983	90.091	10
101		129-08-28	88-50-24	35.364	2.500	2656930.299	219207.049	91.327	0
102		138-16-54	89-19-05	31.242		2656923.859	219208.929		331
103		134-56-50	88-38-20	32.918		2656926.330	219208.524		330
104		129-07-12	87-46-52	37.087		2656931.759	219207.926		330
105		139-59-15	89-59-28	27.833		2656920.724	219207.334		5
106		2-14-44	90-33-59	83.135	1.600	2656892.232	219105.852	90.689	0
107		2-04-04	90-30-35	87.508	1.600	2656891.546	219101.524	90.733	0
108		1-57-00	90-28-20	91.826	1.600	2656890.934	219097.245	90.755	0
109		1-39-40	90-27-49	96.878	1.600	2656889.942	219092.269	90.728	0
110		1-26-41	90-27-25	101.712	1.600	2656889.052	219087.503	90.700	0
111		1-17-14	90-26-16	138.425	1.600	2656884.674	219051.051	90.454	0
112		1-36-08	90-22-34	113.755	1.600	2656888.050	219075.497	90.765	0
113		1-19-31	90-25-17	138.431	1.600	2656884.764	219051.035	90.494	0
114		4-29-57	90-20-33	116.061	1.600	2656893.654	219072.728	90.818	0
115		7-22-44	90-22-04	116.108	1.600	2656899.483	219072.502	90.766	0
116		5-21-17	90-17-13	120.925	1.600	2656895.186	219067.784	90.906	0
117		3-21-06	90-15-53	122.022	1.600	2656890.882	219066.937	90.948	0
118		8-04-18	90-17-44	121.578	1.600	2656900.923	219067.032	90.885	0
119		10-35-06	90-19-08	121.316	1.600	2656906.240	219067.446	90.837	0
120		12-13-32	90-20-05	121.270	1.600	2656909.702	219067.716	90.803	0
121		13-45-00	90-20-57	121.438	1.600	2656912.933	219067.847	90.772	0
122		18-04-14	90-22-59	122.165	1.600	2656922.125	219068.440	90.695	0
123		13-38-31	90-19-09	125.183	1.600	2656913.093	219064.098	90.815	0
124		11-46-54	90-18-03	125.001	1.600	2656909.031	219063.924	90.856	0
125		9-22-20	90-17-01	125.112	1.600	2656903.785	219063.549	90.893	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 34 頁 共 47 頁

[illegible]

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 35 頁 共 47 頁

測站 = L2		N = 2656795.108		E = 219111.411		EL = 91.474			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.512 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 267-27-58		至後視距離 = 43.206 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
BU2137		360-00-00	89-26-20	43.212	1.645	2656793.198	219068.244	91.764	2
1		223-37-54	90-38-00	16.312		2656784.386	219123.703		54
2		172-08-38	90-31-56	68.547		2656807.470	219178.832		54
3		168-30-25	90-27-48	66.171		2656811.146	219175.607		54
4		167-15-31	90-27-49	69.970		2656813.542	219178.907		54
5		163-58-18	90-28-52	67.728		2656816.667	219175.614		54
6		162-36-12	90-29-05	72.140		2656819.698	219179.228		54
7		159-29-04	90-22-37	70.172		2656822.582	219175.980		54
8		155-34-01	89-23-55	73.797		2656828.571	219177.181		54
9		145-33-58	90-01-28	16.926		2656805.287	219124.935		54
10		192-57-38	89-56-58	38.897		2656788.069	219149.666		54
11		188-14-04	90-46-29	38.916		2656791.243	219150.131		54
12		181-32-31	91-17-05	39.046		2656795.784	219150.442		54
13		251-36-09	80-29-20	20.477		2656776.245	219118.626		3
14		242-52-14	80-30-44	7.060		2656789.057	219114.858		33
15		171-51-55	88-51-57	36.240		2656801.816	219147.018		33
16		352-37-59	90-56-40	25.340		2656790.752	219086.452		33
17		57-16-54	75-43-53	11.279		2656804.035	219105.102		54
18		44-36-56	84-26-23	14.810		2656804.987	219100.471		54
19		34-14-56	86-54-39	18.922		2656805.041	219095.338		54
20		71-17-45	92-43-40	16.191		2656810.182	219105.553		54
21		66-04-54	78-26-53	14.588		2656807.904	219105.045		54
22		75-32-51	91-43-59	18.710		2656812.994	219105.948		54
23		77-49-00	92-26-51	21.703		2656816.080	219105.903		54
24		79-52-29	92-27-00	24.354		2656818.848	219106.079		54
25		81-23-08	91-54-54	27.131		2656821.712	219106.169		54
26		82-27-59	91-47-48	29.935		2656824.568	219106.181		54
27		83-37-41	91-47-42	32.695		2656827.393	219106.352		54
28		85-52-18	91-21-34	40.236		2656835.061	219106.745		54
29		86-43-56	91-21-32	43.288		2656838.162	219107.037		54
30		87-03-50	91-21-31	46.255		2656841.140	219107.004		54
31		87-34-00	91-21-33	48.866		2656843.777	219107.182		54
32		153-49-57	88-48-34	50.602		2656819.404	219155.787		201
33		135-41-25	71-21-08	35.304		2656819.510	219134.291		301
34		104-43-47	69-50-14	28.021		2656820.818	219116.968		300
35		102-50-23	73-48-10	34.617		2656827.815	219117.359		300
36		101-11-19	73-46-44	34.520		2656827.876	219116.399		300
L2A		92-26-10	89-58-19	55.504	1.650	2656850.612	219111.317	91.363	2
1		106-31-33	89-58-22	27.440		2656821.734	219118.046		200
2		137-52-19	91-09-00	34.885	.000	2656819.625	219136.219	92.286	0
3		137-48-03	91-29-40	33.864	.000	2656818.934	219135.460	92.103	0
4		137-48-44	91-47-58	33.531	.000	2656818.691	219135.225	91.933	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 36 頁 共 47 頁

測站 = L2		N = 2656795.108		E = 219111.411		EL = 91.474			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.512 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 267-27-58		至後視距離 = 43.206 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
5		137-48-43	92-07-44	33.177	.000	2656818.438	219134.968	91.754	0
6		137-48-40	92-27-19	32.857	.000	2656818.208	219134.736	91.579	0
7		137-57-44	92-46-48	32.544	.000	2656817.921	219134.568	91.408	0
8		142-23-03	92-43-27	34.281	.000	2656817.187	219137.585	91.357	0
9		134-06-08	95-44-48	15.604	.000	2656806.724	219121.713	91.424	0
10		149-00-33	95-49-15	14.046	.000	2656802.826	219123.061	91.562	0
11		97-54-43	93-42-53	24.729	.000	2656819.677	219113.724	91.384	0
12		97-20-56	93-10-33	28.849	.000	2656823.811	219113.829	91.388	0
13		98-05-38	93-00-20	30.851	.000	2656825.772	219114.396	91.369	0
14		97-07-31	92-56-36	31.298	.000	2656826.265	219113.914	91.379	0
15		99-01-40	94-56-58	18.506	.000	2656813.427	219113.497	91.389	0
16		100-33-07	96-34-11	13.914	.000	2656808.796	219113.340	91.394	0
17		102-52-01	99-20-19	9.769	.000	2656804.591	219113.141	91.401	0
18		105-28-08	103-59-18	6.612	.000	2656801.361	219112.848	91.388	0
19		84-20-36	103-57-35	6.311	.000	2656801.170	219110.539	91.464	0
20		87-57-48	98-13-22	10.567	.000	2656805.533	219110.578	91.475	0
21		89-27-37	96-12-59	13.892	.000	2656808.899	219110.671	91.482	0
22		90-40-12	94-42-28	18.313	.000	2656813.350	219110.818	91.483	0
23		91-21-07	94-08-06	20.970	.000	2656816.019	219110.980	91.474	0
24		91-54-19	93-40-47	23.641	.000	2656818.699	219111.153	91.469	0
25		92-13-27	93-12-14	27.243	.000	2656822.308	219111.264	91.464	0
26		92-30-50	92-45-48	31.873	.000	2656826.944	219111.400	91.450	0
27		87-28-12	92-54-18	30.557	.000	2656825.507	219108.718	91.437	0
28		86-55-04	93-05-17	29.054	.000	2656823.981	219108.572	91.421	0
29		86-16-16	93-24-11	26.320	.000	2656821.225	219108.545	91.424	0
30		85-32-10	93-41-12	24.333	.000	2656819.210	219108.453	91.421	0
31		84-46-55	94-01-26	22.467	.000	2656817.315	219108.388	91.410	0
32		84-01-49	94-21-45	20.593	.000	2656815.416	219108.375	91.420	0
33		82-48-42	94-53-01	18.319	.000	2656813.098	219108.329	91.427	0
34		80-24-16	95-50-51	15.583	.000	2656810.264	219108.154	91.398	0
35		77-27-10	96-54-51	13.076	.000	2656807.642	219108.034	91.412	0
36		72-06-12	99-17-57	9.591	.000	2656803.978	219108.108	91.436	0
37		62-54-02	104-11-34	6.443	.000	2656800.537	219108.323	91.406	0
38		59-32-15	96-06-41	8.531		2656802.222	219106.792		54
39		352-15-27	90-42-10	34.540		2656788.947	219077.428		37
40		350-56-55	90-41-42	34.758		2656788.128	219077.364		37
41		349-23-14	90-36-01	35.060		2656787.134	219077.272		37
42		347-55-39	90-25-15	35.295		2656786.208	219077.258		37
43		87-34-16	92-19-22	37.916	.000	2656832.851	219108.134	91.449	0
44		86-57-08	92-27-42	35.526	.000	2656830.433	219107.959	91.460	0
45		86-13-50	92-35-58	33.054	.000	2656827.928	219107.786	91.487	0
46		85-14-19	92-55-00	29.382	.000	2656824.214	219107.685	91.491	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 37 頁 共 47 頁

測站 = L2		N = 2656795.108		E = 219111.411		EL = 91.474			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.512 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 267-27-58		至後視距離 = 43.206 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
47		84-18-46	93-15-44	26.265	.000	2656821.061	219107.662	91.491	0
48		83-29-58	93-34-44	24.088	.000	2656818.851	219107.636	91.482	0
49		80-45-09	94-28-50	18.868	.000	2656813.522	219107.571	91.512	0
50		80-01-55	94-36-01	18.215	.000	2656812.834	219107.481	91.525	0
51		79-08-07	95-01-16	16.957	.000	2656811.540	219107.497	91.502	0
52		77-29-17	95-31-02	15.499	.000	2656810.006	219107.407	91.496	0
53		75-57-38	95-35-51	15.212	.000	2656809.619	219107.093	91.502	0
54		75-06-48	95-45-51	14.696	.000	2656809.059	219107.034	91.510	0
55		74-01-38	96-12-39	13.780	.000	2656808.099	219107.063	91.495	0
56		70-58-53	97-20-44	11.608	.000	2656805.816	219107.182	91.502	0
57		64-46-12	99-05-52	9.341	.000	2656803.270	219107.115	91.509	0
58		70-29-58	93-23-19	23.608	.000	2656816.953	219102.570	91.591	0
59		73-16-03	93-46-38	20.993	.000	2656814.882	219104.500	91.603	0
60		76-48-37	92-44-07	30.281	.000	2656824.223	219103.215	91.541	0
61		78-46-32	92-38-24	30.800	.000	2656824.993	219104.094	91.567	0
62		80-23-40	92-25-36	35.055	.000	2656829.348	219104.046	91.502	0
63		82-52-15	92-48-00	29.509	.000	2656824.164	219106.464	91.545	0
64		84-19-05	91-50-10	47.616	.000	2656842.211	219104.611	91.461	0
65		46-19-19	96-15-50	12.783	.000	2656803.901	219102.238	91.591	0
66		37-00-02	97-32-42	11.627	.000	2656801.631	219101.909	91.459	0
67		29-33-18	95-51-36	14.900	.000	2656801.842	219098.207	91.465	0
68		24-46-03	94-39-31	18.423	.000	2656802.056	219094.415	91.490	0
69		21-45-10	93-45-01	22.074	.000	2656802.359	219090.612	91.542	0
70		19-45-14	93-11-17	25.105	.000	2656802.529	219087.469	91.590	0
71		18-38-40	92-54-25	27.223	.000	2656802.653	219085.291	91.606	0
72		17-11-17	92-30-53	31.166	.000	2656802.985	219081.288	91.619	0
73		16-23-44	92-14-20	33.058	.000	2656803.022	219079.341	91.695	0
74		15-23-55	92-04-42	35.645	.000	2656803.039	219076.684	91.693	0
75		14-34-16	92-06-14	35.436	.000	2656802.493	219076.778	91.685	0
76		11-29-43	92-07-56	34.975	.000	2656800.552	219076.887	91.685	0
77		10-00-15	92-06-42	35.041	.000	2656799.661	219076.691	91.695	0
78		7-03-35	92-06-28	34.812	.000	2656797.853	219076.731	91.706	0
79		3-23-29	92-06-29	34.806	.000	2656795.629	219076.633	91.706	0
80		0-20-53	92-08-59	34.977	.000	2656793.775	219076.485	91.674	0
81		357-12-31	92-13-25	35.091	.000	2656791.854	219076.498	91.625	0
82		356-46-06	92-27-04	32.229	.000	2656791.873	219079.375	91.608	0
83		355-57-34	92-42-09	29.685	.000	2656791.713	219081.954	91.586	0
84		355-16-02	92-58-02	27.532	.000	2656791.630	219084.137	91.561	0
85		354-33-19	93-11-21	25.778	.000	2656791.536	219085.923	91.552	0
86		353-49-36	93-26-16	24.224	.000	2656791.448	219087.510	91.534	0
87		353-05-13	93-39-08	23.013	.000	2656791.339	219088.757	91.520	0
88		352-27-50	93-51-19	21.944	.000	2656791.280	219089.854	91.511	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 38 頁 共 47 頁

測站 = L2		N = 2656795.108		E = 219111.411		EL = 91.474			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.512 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 267-27-58		至後視距離 = 43.206 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
89		351-40-37	94-06-21	20.878	.000	2656791.186	219090.960	91.491	0
90		349-13-05	94-52-25	17.678	.000	2656791.051	219094.271	91.484	0
91		345-19-47	95-57-43	14.726	.000	2656790.776	219097.420	91.457	0
92		340-54-41	97-12-40	12.274	.000	2656790.621	219100.091	91.445	0
93		335-00-19	98-46-46	10.140	.000	2656790.476	219102.525	91.438	0
94		322-10-14	102-02-41	7.462	.000	2656790.382	219105.851	91.429	0
95		298-54-30	106-21-22	5.638	.000	2656790.261	219109.008	91.398	0
96		303-58-34	101-47-51	7.104	.000	2656789.175	219107.784	91.534	0
97		300-31-31	97-11-06	10.440	.000	2656785.962	219106.550	91.680	0
98		298-42-21	94-48-45	15.989	.000	2656780.809	219104.384	91.645	0
99		310-35-41	94-41-05	16.023	.000	2656782.534	219101.566	91.677	0
100		317-46-34	95-59-16	12.912	.000	2656786.066	219102.293	91.639	0
101		326-01-25	98-03-23	10.107	.000	2656789.154	219103.368	91.570	0
102		337-07-28	96-16-44	12.714	.000	2656789.685	219099.996	91.596	0
103		329-53-09	95-01-48	15.213	.000	2656786.933	219098.651	91.652	0
104		327-42-31	92-50-31	23.770	.000	2656781.550	219091.923	91.808	0
105		349-12-17	101-17-36	7.744	.000	2656793.357	219104.022	91.470	0
106		7-11-56	99-51-36	8.541	.000	2656795.792	219103.024	91.523	0
107		23-59-17	98-50-10	9.812	.000	2656798.654	219102.388	91.479	0
108		20-08-14	96-18-57	13.491	.000	2656799.163	219098.630	91.502	0
109		7-38-51	96-18-41	12.860	.000	2656796.247	219098.680	91.572	0
110		354-40-12	96-18-40	13.334	.000	2656793.295	219098.283	91.520	0
111		356-32-20	94-45-43	17.265	.000	2656793.311	219094.300	91.553	0
112		5-50-56	94-45-54	16.559	.000	2656796.062	219094.937	91.611	0
113		15-45-18	94-45-59	17.227	.000	2656799.034	219094.699	91.555	0
114		14-36-28	93-35-06	22.238	.000	2656799.751	219089.708	91.596	0
115		6-13-58	93-35-10	21.286	.000	2656796.479	219090.211	91.655	0
116		358-23-30	93-35-14	22.256	.000	2656793.504	219089.257	91.594	0
117		359-34-38	92-57-14	26.387	.000	2656793.749	219085.095	91.626	0
118		6-06-21	92-57-16	25.346	.000	2656796.685	219086.148	91.680	0
119		12-21-41	92-57-17	26.073	.000	2656799.552	219085.755	91.642	0
120		12-16-28	92-26-37	31.405	.000	2656800.417	219080.487	91.647	0
121		6-00-11	92-26-43	30.069	.000	2656796.926	219081.425	91.703	0
122		0-39-56	92-26-48	31.245	.000	2656794.090	219080.212	91.652	0
123		239-37-05	104-11-47	6.524	.000	2656789.799	219114.848	91.386	0
124		224-13-32	100-45-16	8.625	.000	2656789.472	219117.739	91.377	0
125		212-28-28	97-41-41	11.949	.000	2656789.198	219121.673	91.386	0
126		205-20-21	95-47-02	15.619	.000	2656789.085	219125.736	91.412	0
127		205-08-13	94-17-09	21.597	.000	2656786.831	219131.294	91.372	0
128		202-21-39	93-48-07	24.676	.000	2656786.757	219134.574	91.350	0
129		199-11-51	93-20-07	28.328	.000	2656786.999	219138.504	91.338	0
130		197-18-33	92-42-34	36.989	.000	2656785.685	219147.137	91.238	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 39 頁 共 47 頁

測站 = L2		N = 2656795.108		E = 219111.411		EL = 91.474			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.512 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 267-27-58		至後視距離 = 43.206 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
131		192-32-14	92-42-29	34.115	.000	2656789.189	219144.970	91.374	0
132		189-37-13	92-38-52	35.318	.000	2656790.756	219146.422	91.355	0
133		188-01-09	92-41-09	34.477	.000	2656791.816	219145.693	91.371	0
134		182-53-10	92-40-22	34.420	.000	2656794.897	219145.793	91.381	0
135		179-00-39	92-42-29	33.081	.000	2656797.139	219144.393	91.423	0
136		175-12-57	92-41-06	32.772	.000	2656799.278	219143.881	91.451	0
137		171-58-50	92-38-43	33.644	.000	2656801.263	219144.451	91.433	0
138		169-13-45	92-29-59	36.359	.000	2656803.467	219146.761	91.400	0
139		167-38-10	92-27-14	36.953	.000	2656804.600	219147.090	91.404	0
140		165-17-57	92-27-27	36.400	.000	2656805.883	219146.145	91.425	0
141		162-43-34	92-22-24	37.836	.000	2656807.918	219146.978	91.419	0
142		159-15-48	92-19-02	39.204	.000	2656810.584	219147.397	91.401	0
143		157-52-14	92-05-31	44.668	.000	2656813.735	219151.978	91.356	0
144		160-00-58	91-57-17	47.205	.000	2656813.176	219154.992	91.376	0
145		161-20-37	91-51-57	49.497	.000	2656812.990	219157.537	91.375	0
146		154-46-21	92-21-59	38.526	.000	2656813.038	219145.474	91.395	0
147		152-03-40	92-29-09	36.106	.000	2656813.401	219142.501	91.420	0
148		149-40-23	92-30-16	36.055	.000	2656814.653	219141.668	91.411	0
149		147-23-11	92-32-15	36.082	.000	2656815.860	219140.886	91.389	0
150		210-30-13	109-34-12	4.518	.000	2656793.112	219115.171	91.473	0
151		201-42-06	101-22-20	7.657	.000	2656792.643	219118.502	91.476	0
152		196-40-47	97-19-21	11.988	.000	2656792.202	219122.941	91.458	0
153		194-29-38	95-15-31	17.005	.000	2656791.599	219127.977	91.428	0
154		193-09-01	94-05-02	22.162	.000	2656791.035	219133.139	91.408	0
155		192-25-22	93-18-22	27.511	.000	2656790.391	219138.469	91.400	0
156		189-08-29	93-15-39	27.566	.000	2656791.941	219138.750	91.418	0
157		185-48-02	93-18-34	26.902	.000	2656793.578	219138.225	91.433	0
158		182-28-25	93-18-48	26.151	.000	2656795.136	219137.519	91.475	0
159		182-28-36	93-50-17	22.573	.000	2656795.131	219133.934	91.475	0
160		182-28-39	94-17-13	20.451	.000	2656795.128	219131.805	91.457	0
161		182-28-40	95-03-28	17.589	.000	2656795.125	219128.932	91.435	0
162		181-31-07	98-08-11	10.416	.000	2656795.291	219121.721	91.512	0
163		177-41-44	103-40-06	6.300	.000	2656795.624	219117.511	91.497	0
164		177-41-51	116-21-45	3.350	.000	2656795.361	219114.402	91.498	0
165		121-58-28	104-01-14	6.531	.000	2656800.626	219114.526	91.404	0
166		141-50-22	101-08-40	8.254	.000	2656800.388	219117.552	91.391	0
167		154-59-59	98-18-15	11.228	.000	2656800.244	219121.263	91.364	0
168		161-34-52	95-52-31	15.526	.000	2656800.631	219125.835	91.397	0
169		165-26-22	94-53-00	18.177	.000	2656800.432	219128.722	91.439	0
170		167-04-43	94-08-07	20.983	.000	2656800.685	219131.583	91.473	0
171		168-54-32	93-41-55	23.250	.000	2656800.574	219133.960	91.486	0
172		169-36-14	92-59-07	29.000	.000	2656801.588	219139.638	91.476	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 40 頁 共 47 頁

測站 = L2		N = 2656795.108		E = 219111.411		EL = 91.474			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.512 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 267-27-58		至後視距離 = 43.206 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
173		161-49-55	93-04-55	27.673	.000	2656804.877	219137.260	91.498	0
174		158-26-53	93-46-03	23.193	.000	2656804.553	219132.539	91.462	0
175		155-00-45	94-20-14	20.500	.000	2656804.554	219129.540	91.436	0
176		151-49-08	94-21-22	20.652	.000	2656805.626	219129.115	91.417	0
177		150-43-04	92-54-04	30.195	.000	2656811.006	219137.037	91.458	0
178		153-40-43	92-51-48	30.439	.000	2656809.780	219138.038	91.466	0
179		156-11-26	92-38-35	33.113	.000	2656809.786	219141.054	91.459	0
180		158-28-43	92-36-48	33.232	.000	2656808.640	219141.726	91.471	0
1		325-29-54	88-54-05	24.722	2.400	2656780.221	219091.680	91.060	10
2		325-05-56	86-50-51	24.494	2.400	2656780.242	219091.992	91.933	0
3		322-11-26	86-54-47	26.194	2.400	2656778.176	219091.476	91.997	0
4		322-54-41	85-39-25	24.334		2656779.634	219092.722		151
5		232-00-37	94-54-29	15.695	.000	2656783.221	219121.572	91.643	0
6		232-01-55	100-03-38	8.848	.000	2656788.484	219117.070	91.440	0
7		147-12-33	93-28-49	17.687	.000	2656805.316	219125.815	91.912	0
8		318-10-05	88-28-39	21.226		2656780.271	219096.243		211
9		317-55-35	88-47-49	20.501		2656780.715	219096.819		441
10		310-12-52	88-29-19	19.636	2.300	2656779.573	219099.413	91.204	10
11		310-12-50	88-29-17	19.636	1.600	2656779.573	219099.413	91.904	0
12		306-02-19	86-56-55	19.658	1.600	2656778.740	219100.575	92.433	0
13		298-37-00	88-23-04	17.424		2656779.465	219103.754		210
14		301-38-03	88-53-43	17.157		2656780.120	219103.069		440
15		273-28-44	83-43-16	17.726	2.500	2656777.491	219111.121	92.425	0
16		264-48-47	83-43-58	17.836		2656777.539	219113.793		150
17		257-51-41	81-20-48	18.322		2656777.585	219115.999		150
18		273-23-58	83-26-14	16.443		2656778.775	219111.165		215
19		270-32-43	82-30-29	16.023		2656779.231	219111.963		440
20		263-25-25	82-58-28	16.840		2656778.605	219114.058		210
21		251-09-44	82-50-03	17.646		2656778.804	219117.792		216
22		258-56-03	81-55-23	16.763		2656778.977	219115.314		440
23		218-27-17	87-23-50	35.601	2.500	2656774.244	219140.212	92.103	0
24		221-56-08	87-47-29	40.953	2.500	2656769.132	219143.033	92.064	0
25		216-48-47	87-57-17	45.576	2.500	2656769.455	219149.047	92.113	0
26		213-13-48	88-08-37	49.684	2.500	2656769.758	219154.112	92.096	0
27		210-18-09	88-17-39	54.657	2.500	2656769.655	219159.753	92.113	0
28		208-09-47	88-27-13	59.342	2.500	2656769.449	219164.895	92.088	0
29		206-09-46	88-35-05	64.725	2.500	2656769.173	219170.692	92.085	0
30		204-49-32	88-43-20	69.927	2.500	2656768.590	219176.096	92.046	0
31		202-36-55	88-45-40	74.239	2.500	2656769.624	219181.121	92.092	0
32		199-33-56	88-46-30	73.229	2.500	2656773.664	219181.413	92.052	0
33		199-03-51	88-07-19	73.885	2.500	2656774.097	219182.205	92.908	111
34		203-50-08	88-45-38	75.038	2.500	2656767.855	219181.307	92.110	0

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 41 頁 共 47 頁

測站 = L2		N = 2656795.108		E = 219111.411		EL = 91.474			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.512 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 267-27-58		至後視距離 = 43.206 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
35		206-33-43	88-47-56	76.542	2.500	2656763.948	219181.305	92.091	0
36		206-22-07	88-09-24	77.475	2.500	2656763.817	219182.242	92.979	0
37		209-28-43	88-12-56	78.963	2.500	2656759.345	219181.768	92.945	0
38		210-11-40	88-51-31	78.547	2.500	2656758.651	219180.968	92.051	0
39		213-41-09	88-50-32	81.014	2.500	2656753.207	219180.729	92.123	0
40		215-43-45	88-51-41	82.023	2.500	2656750.210	219180.035	92.116	0
41		215-32-55	88-19-10	83.649	2.500	2656749.551	219181.523	92.940	110
42		216-23-54	88-48-28	75.151	2.500	2656753.241	219173.800	92.050	0
43		216-01-24	88-40-59	69.619	2.500	2656756.704	219169.457	92.086	0
44		216-46-11	88-33-58	64.802	2.500	2656758.662	219164.968	92.108	0
45		219-07-38	88-27-55	60.269	2.500	2656759.193	219159.783	92.100	0
46		222-23-49	88-21-25	55.934	2.500	2656759.272	219154.328	92.090	0
47		226-00-40	88-13-21	51.982	2.500	2656759.358	219149.114	92.099	0
1		229-42-17	88-07-43	48.831	2.500	2656759.315	219144.590	92.081	0
2		234-00-05	87-56-51	45.431	2.500	2656759.592	219139.695	92.113	0
3		239-12-08	87-52-44	42.345	2.500	2656759.753	219134.663	92.053	0
4		234-53-45	87-35-20	37.537	2.500	2656765.409	219134.314	92.065	0
5		229-34-26	87-07-42	32.247	2.500	2656771.538	219133.360	92.102	0
6		227-07-34	86-20-53	25.245	2.500	2656777.421	219129.352	92.094	0
7		284-29-23	83-31-40	10.319	2.600	2656785.077	219109.287	91.549	0
8		270-15-38	81-48-28	7.821	2.600	2656787.373	219111.719	91.501	0
9		269-37-08	85-21-22	14.872	2.600	2656780.304	219112.165	91.590	0
10		243-58-57	89-17-19	14.700	1.600	2656782.197	219118.437	91.569	0
11		221-48-00	89-40-35	15.235	1.600	2656785.466	219123.206	91.472	0
12		219-48-59	89-29-50	13.681	1.600	2656786.821	219122.296	91.506	86
13		216-38-18	89-42-22	17.518	1.600	2656785.286	219125.916	91.476	0
14		212-25-01	89-34-15	17.055	1.600	2656786.611	219126.198	91.514	0
15		213-42-09	88-27-35	17.893	1.600	2656785.851	219126.716	91.867	0
16		228-14-06	89-37-23	20.097	1.600	2656780.725	219125.447	91.518	0
17		214-42-08	89-33-39	21.669	1.600	2656783.572	219129.753	91.552	0
18		210-06-55	88-43-48	21.277	1.600	2656785.259	219130.266	91.858	0
19		210-39-52	89-01-51	22.419	1.600	2656784.539	219131.179	91.765	0
20		218-00-33	89-38-17	24.865	1.600	2656780.678	219131.660	91.543	0
21		207-38-00	89-46-44	27.560	1.600	2656783.417	219136.369	91.492	0
22		205-47-51	89-10-57	27.701	1.600	2656784.168	219136.858	91.781	0
23		207-31-18	89-14-35	33.129	2.000	2656781.115	219141.437	91.424	0
24		201-56-30	88-41-00	34.587	2.000	2656783.618	219144.025	91.781	0
25		204-06-49	89-25-13	38.152	2.000	2656781.077	219146.887	91.372	0
26		202-56-20	89-21-47	35.435	2.000	2656782.754	219144.621	91.380	0
27		199-55-33	89-24-42	37.829	2.000	2656783.801	219147.509	91.375	0
28		197-12-13	89-10-06	37.991	2.000	2656785.488	219148.160	91.538	0
29		201-37-55	89-18-45	37.346	2.000	2656782.890	219146.699	91.434	281

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 42 頁 共 47 頁

測站 = L2		N = 2656795.108		E = 219111.411		EL = 91.474			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.512 m			
後視度盤讀數 = 0-00-00		至後視方位角		= 267-27-58		至後視距離 = 43.206 m			
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
30		201-16-58	87-59-58	36.953		2656783.238	219146.382		5
31		198-46-27	89-28-56	36.813		2656784.813	219146.754		280
32		197-32-57	89-27-46	40.019		2656784.741	219150.062		280
33		197-26-31	89-29-32	43.639	2.000	2656783.882	219153.580	91.373	86
34		194-25-36	89-30-28	39.532		2656786.962	219150.093		280
35		194-00-23	89-54-41	41.095		2656786.934	219151.685		280
36		191-06-11	89-44-40	41.325	1.800	2656788.951	219152.275	91.370	0
37		191-02-45	89-11-51	40.188	1.800	2656789.160	219151.153	91.749	0
38		198-05-23	89-41-35	47.474		2656782.377	219157.146		680
39		199-12-44	89-45-43	47.832	1.800	2656781.380	219157.231	91.385	0
40		197-40-04	89-42-57	46.882	1.800	2656782.868	219156.667	91.419	0
41		198-11-41	89-40-45	47.094		2656782.396	219156.756		5
42		197-06-28	89-54-16	47.815	1.800	2656783.076	219157.688	91.266	0
43		191-48-51	89-42-41	46.079	1.800	2656787.677	219156.887	91.418	0
44		186-02-41	89-48-15	45.803	1.800	2656792.303	219157.128	91.343	0
45		179-20-06	89-50-26	46.144	1.800	2656797.683	219157.483	91.315	0
46		173-40-08	89-53-17	46.728	1.800	2656802.309	219157.581	91.277	0
47		170-31-28	89-55-09	48.027		2656805.101	219158.387		680
48		170-16-59	89-47-35	45.755	1.800	2656804.817	219156.124	91.351	0
49		167-35-26	89-53-16	40.873		2656805.648	219150.902		680
50		168-02-55	89-25-11	40.947		2656805.350	219151.055		5
51		168-34-33	89-47-08	41.252	1.800	2656805.058	219151.445	91.341	0
52		171-27-01	89-46-55	40.015		2656802.801	219150.680		680
53		172-26-15	89-29-39	38.508	1.800	2656801.858	219149.322	91.526	0
54		170-16-31	89-23-18	36.832		2656802.928	219147.402		680
55		177-54-46	89-52-46	40.979		2656798.410	219152.257		280
56		178-34-04	89-12-55	39.967	1.800	2656797.872	219151.279	91.734	0
57		178-50-21	89-52-21	41.510	1.800	2656797.783	219152.835	91.279	0
58		176-21-10	89-32-43	38.855	1.800	2656799.292	219150.039	91.495	0
59		177-39-24	89-26-03	39.449		2656798.462	219150.716		280
60		177-17-01	88-54-08	37.443		2656798.534	219148.691		280
61		177-41-06	88-54-09	37.829		2656798.305	219149.098		5
62		179-58-11	89-31-04	36.794	1.800	2656796.754	219148.167	91.496	0
63		183-06-10	89-03-24	37.944	1.800	2656794.731	219149.348	91.811	0
64		181-24-37	89-23-14	35.701		2656795.808	219147.104		680
65		184-31-31	89-46-13	36.277	1.800	2656793.847	219147.666	91.332	62
66		191-24-13	88-57-28	37.345		2656789.351	219148.304		280
67		194-47-33	88-58-28	37.708		2656787.103	219148.254		5
68		191-31-55	89-44-56	35.896		2656789.494	219146.865		750
69		191-43-30	92-01-28	34.704		2656789.568	219145.649		280
70		195-02-59	89-42-31	34.937		2656787.537	219145.518		751
71		197-27-12	89-42-28	35.169		2656786.054	219145.394		280

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 43 頁 共 47 頁

測站 = L2		N = 2656795.108		E = 219111.411		EL = 91.474			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.512 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 267-27-58		至後視距離 = 43.206 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
72		197-46-39	88-53-18	36.346		2656785.554	219146.472		5
73		198-01-46	89-41-02	30.932	1.800	2656786.844	219141.219	91.357	62
74		198-04-20	89-39-36	27.365	1.800	2656787.778	219137.776	91.348	21
75		205-18-29	89-30-55	21.327		2656786.853	219131.075		280
76		205-34-05	89-30-53	21.104		2656786.851	219130.832		280
77		207-40-22	89-27-47	17.503	1.800	2656787.673	219127.256	91.350	0
78		210-07-34	89-27-43	17.405		2656787.047	219126.836		280
79		205-25-48	89-30-32	16.865		2656788.547	219126.947		280
80		215-42-43	89-09-12	11.238		2656788.959	219120.816		280
81		227-14-43	88-52-06	13.044		2656785.933	219120.679		280
82		214-54-43	88-47-28	17.810		2656785.573	219126.449		280
83		217-23-55	88-59-24	18.335		2656784.629	219126.453		280
84		211-36-00	89-02-02	21.986		2656784.428	219130.626		280
85		212-55-34	89-02-02	22.334		2656783.811	219130.674		280
86		152-59-06	89-15-26	11.486		2656800.772	219121.403		281
87		152-49-12	88-55-44	11.785		2656800.949	219121.645		5
88		160-41-43	89-58-50	14.576		2656800.530	219124.941		280
89		153-02-12	90-01-11	16.194	1.600	2656803.082	219125.506	91.380	0
90		149-25-57	90-01-20	16.368		2656804.047	219125.123		280
91		152-03-19	93-01-43	17.660		2656804.053	219126.610		280
92		148-23-46	90-04-10	18.750	1.600	2656805.630	219126.931	91.363	0
93		140-00-06	90-04-04	20.352	1.600	2656808.866	219126.409	91.362	0
94		141-36-36	90-04-06	20.491		2656808.531	219126.894		280
95		138-27-43	90-07-04	19.428		2656808.621	219125.370		280
96		137-25-54	88-30-12	19.197		2656808.702	219124.957		5
97		133-08-14	88-54-40	20.491	1.600	2656810.663	219124.745	91.775	86
98		129-45-35	90-10-33	24.081	1.600	2656814.283	219125.979	91.312	82
99		125-54-19	89-12-13	24.625	1.600	2656815.671	219124.955	91.728	0
100		125-14-36	90-03-31	25.839	1.600	2656816.850	219125.374	91.360	0
101		126-32-22	90-02-20	25.707		2656816.419	219125.789		280
102		119-08-20	89-45-54	24.205		2656816.750	219122.251		280
103		117-34-54	90-04-54	24.392	1.600	2656817.206	219121.738	91.351	0
104		127-50-27	90-12-35	30.630	1.600	2656820.104	219129.114	91.274	0
105		117-06-47	90-08-00	28.096	1.600	2656820.658	219123.098	91.321	0
106		107-26-19	90-06-24	26.662	1.600	2656820.873	219118.269	91.336	0
107		99-45-07	90-00-11	24.506	1.600	2656819.420	219114.491	91.385	0
108		102-55-12	90-05-59	20.974	1.600	2656815.738	219115.193	91.350	0
109		115-46-54	90-03-34	21.659	1.600	2656815.009	219119.960	91.364	0
110		124-53-24	90-02-05	18.884	1.600	2656811.060	219121.518	91.375	0
111		130-17-22	93-31-38	17.027		2656808.545	219121.817		280
112		134-38-27	93-03-01	18.001		2656808.444	219123.464		280
113		141-49-41	90-07-36	15.680		2656805.334	219123.298		280

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 44 頁 共 47 頁

測站 = L2		N = 2656795.108		E = 219111.411		EL = 91.474			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.512 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 267-27-58		至後視距離 = 43.206 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
114		139-48-25	90-04-48	15.390	1.600	2656805.550	219122.717	91.365	0
115		137-35-26	89-57-54	14.599		2656805.421	219121.745		282
116		127-49-08	89-46-25	11.234	1.600	2656804.278	219117.901	91.430	0
117		117-09-22	89-48-42	7.932	1.600	2656802.319	219114.716	91.412	0
118		107-11-32	89-47-40	12.366	1.600	2656807.072	219114.541	91.430	0
119		103-50-36	89-58-23	17.399	1.600	2656812.169	219114.824	91.394	0
120		97-44-52	90-02-07	18.986		2656814.016	219113.137		5
121		110-03-24	90-19-16	6.428		2656801.238	219113.347		750
122		61-23-38	100-16-35	7.767		2656801.649	219107.459		351
123		85-43-19	89-38-39	10.632		2656805.665	219110.150		281
124		89-01-01	89-41-10	16.553		2656811.630	219110.396		72
125		90-31-43	89-48-01	22.370		2656817.464	219110.629		72
126		91-25-09	89-51-24	28.290		2656823.393	219110.861		72
127		88-05-30	89-59-22	30.924		2656825.939	219109.016		231
128		87-57-48	90-01-10	30.093		2656825.105	219109.013		230
129		87-17-45	89-55-06	30.520	2.400	2656825.501	219108.625	90.630	10
130		87-17-37	89-55-06	30.522	1.600	2656825.503	219108.624	91.430	0
131		96-19-19	90-05-51	31.722		2656826.761	219113.507		5
132		97-01-19	90-03-34	32.218	2.400	2656827.227	219113.933	90.553	10
133		97-01-18	90-03-33	32.185	1.600	2656827.194	219113.930	91.353	0
134		98-03-10	90-01-37	28.463		2656823.439	219114.149		755
135		98-37-49	90-01-37	29.128		2656824.071	219114.505		750
136		99-50-03	90-02-37	29.509		2656824.378	219115.161		756
137		105-32-56	90-00-52	29.929		2656824.268	219118.152		750
138		104-07-29	90-00-24	29.471	1.600	2656823.978	219117.333	91.383	0
139		103-25-57	90-01-01	31.085	1.600	2656825.632	219117.289	91.377	62
140		104-52-01	89-59-45	32.233		2656826.597	219118.296		750
141		97-49-04	90-04-07	31.754		2656826.727	219114.336		750
142		100-40-36	90-03-03	31.962		2656826.748	219115.939		291
143		100-15-38	88-42-23	36.415		2656831.183	219116.306		290
144		98-41-41	89-53-59	36.741	1.600	2656831.637	219115.355	91.450	0
145		101-11-00	90-02-23	31.935		2656826.680	219116.214		291
146		103-03-01	89-47-11	32.270	1.600	2656826.836	219117.301	91.506	0
147		102-54-13	89-30-04	32.376	1.600	2656826.954	219117.239	91.668	72
148		102-56-48	89-11-14	32.693	1.600	2656827.259	219117.320	91.850	72
149		103-45-22	88-55-15	33.039	1.600	2656827.510	219117.840	92.008	72
150		103-34-05	88-38-06	33.329	1.600	2656827.812	219117.789	92.180	72
151		103-28-19	88-18-55	33.674	1.600	2656828.156	219117.798	92.376	72
152		100-38-15	88-10-41	36.124		2656830.853	219116.501		290
153		92-00-13	89-56-05	34.152		2656829.259	219111.095		72
154		92-22-11	89-57-49	40.108	1.600	2656835.216	219111.297	91.412	72
155		92-41-39	89-58-04	45.067	1.600	2656840.175	219111.538	91.412	72

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 45 頁 共 47 頁

測站 = L2		N = 2656795.108		E = 219111.411		EL = 91.474			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.512 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 267-27-58		至後視距離 = 43.206 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
156		92-52-07	89-58-38	50.411	1.600	2656845.518	219111.706	91.406	280
157		96-28-03	90-05-40	52.591		2656847.575	219115.019		750
158		95-41-38	90-02-44	52.892		2656847.920	219114.327		231
159		95-39-06	90-02-43	52.008		2656847.039	219114.240		230
160		96-00-21	90-03-31	52.554	2.530	2656847.566	219114.594	90.402	10
161		96-00-14	90-03-32	52.570	1.600	2656847.582	219114.593	91.332	0
162		90-45-19	90-02-38	57.565		2656852.645	219109.625		350
163		90-09-16	90-00-44	57.623		2656852.681	219109.019		350
164		90-14-09	90-00-43	58.680		2656853.741	219109.059		350
165		90-18-53	90-00-43	58.438		2656853.502	219109.149		231
166		90-58-34	90-01-48	58.358		2656853.445	219109.825		230
167		90-54-53	90-00-47	57.686		2656852.771	219109.782		233
168		90-38-22	90-00-18	58.056	2.630	2656853.132	219109.492	90.351	10
169		90-38-12	90-00-19	58.041	1.600	2656853.117	219109.490	91.381	0
170		91-56-41	90-04-27	59.220	1.600	2656854.325	219110.803	91.310	0
171		96-05-24	90-03-12	59.045	1.600	2656854.039	219115.074	91.331	0
172		129-42-38	90-07-40	26.162		2656815.953	219127.220		365
173		130-59-38	90-08-03	26.704		2656816.018	219128.020		360
174		132-32-26	90-06-10	27.804		2656816.405	219129.286		366
175		132-41-57	90-05-03	29.060	1.600	2656817.315	219130.155	91.343	0
176		135-35-46	90-02-20	30.168		2656817.149	219132.010		360
177		134-54-11	90-04-22	30.533		2656817.666	219131.988		360
178		135-30-59	90-03-47	30.957		2656817.755	219132.517		360
179		135-56-46	88-27-52	33.173		2656819.197	219134.201		280
180		136-06-36	88-46-00	32.831		2656818.887	219134.037		5
181		142-29-58	88-35-10	36.878		2656818.823	219139.639		280
182		143-18-04	90-02-56	35.415		2656817.507	219138.843		360
183		148-28-59	89-58-26	35.078	1.600	2656814.749	219140.475	91.402	21
184		148-03-22	90-01-10	35.567		2656815.242	219140.731		281
185		149-24-03	89-58-41	34.946		2656814.209	219140.675		280
186		148-55-12	89-58-39	34.495		2656814.204	219140.138		283
187		147-58-55	90-02-29	37.620		2656816.444	219142.396		281
188		148-25-27	90-00-32	38.609	1.600	2656816.759	219143.378	91.380	0
189		148-38-05	89-57-28	40.868		2656817.901	219145.333		231
190		149-36-12	89-58-21	41.826		2656817.846	219146.517		230
191		148-23-01	89-58-20	42.441		2656818.933	219146.534		233
192		148-37-48	89-54-15	41.738	2.100	2656818.390	219146.053	90.956	10
193		148-37-43	89-54-15	41.730	1.600	2656818.386	219146.046	91.456	0
194		152-42-37	89-59-06	42.832	1.600	2656816.410	219148.571	91.397	0
195		152-02-02	89-55-52	44.304		2656817.594	219149.585		231
196		150-55-32	89-58-11	44.975		2656818.680	219149.714		230
197		151-45-32	89-59-31	45.859		2656818.573	219150.813		233

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 46 頁 共 47 頁

測站 = L2		N = 2656795.108		E = 219111.411		EL = 91.474			
後視 = BU2137		N = 2656793.198		E = 219068.248		IH = 1.512 m			
後視度盤讀數 = 0-00-00		至後視方位角 = 267-27-58		至後視距離 = 43.206 m					
觀測人員 = 廖英哲		使用儀器 = Trimble S3		測量日期 = 1111221~1111223					
點	號	水平角	天頂距	斜距	覘標高	縱坐標	橫坐標	高程	編碼
198		151-53-34	89-55-56	44.969	2.200	2656818.027	219150.102	90.839	10
199		151-53-35	89-55-56	44.967	1.600	2656818.026	219150.100	91.439	0
200		155-40-04	90-02-14	46.284	1.600	2656816.024	219152.700	91.356	0
201		155-33-27	90-04-50	49.029		2656817.349	219155.106		231
202		154-38-30	90-04-19	49.696		2656818.356	219155.334		230
203		155-18-00	90-05-36	50.652		2656818.288	219156.448		233
204		155-23-00	90-03-34	49.919	2.200	2656817.888	219155.830	90.734	10
205		155-22-59	90-03-34	49.917	1.600	2656817.887	219155.828	91.334	0
206		159-00-57	90-03-32	50.501	1.600	2656815.260	219157.718	91.334	0
207		152-41-24	90-04-12	38.651		2656814.342	219144.937		231
208		151-57-04	90-05-02	37.849		2656814.365	219143.995		230
209		151-10-59	90-04-55	38.163		2656814.963	219144.003		233
210		151-55-17	90-03-00	38.354	2.250	2656814.639	219144.420	90.703	10
211		151-55-17	90-03-02	38.343	1.600	2656814.633	219144.411	91.352	0
212		151-04-39	90-04-23	38.397		2656815.146	219144.166		360
213		156-43-19	90-06-48	44.360		2656814.423	219151.346		360
214		163-54-19	90-07-10	41.568		2656808.386	219150.802		280
215		162-38-30	90-06-04	41.996		2656809.397	219150.902		231
216		163-06-47	90-06-03	42.748		2656809.322	219151.727		230
217		164-06-39	90-06-02	42.452		2656808.524	219151.688		233
218		163-25-34	90-05-59	42.193	2.150	2656808.920	219151.280	90.763	10
219		163-25-30	90-05-59	42.226	1.600	2656808.931	219151.311	91.313	0
220		166-21-57	90-06-02	49.483		2656808.887	219158.937		5
221		166-55-14	90-06-12	49.695	2.300	2656808.483	219159.273	90.597	10
222		166-55-13	90-06-13	49.688	1.600	2656808.481	219159.266	91.296	0
223		167-31-48	90-08-12	40.866		2656805.688	219150.884		280
224		163-43-49	90-08-24	42.577		2656808.832	219151.716		281
225		161-03-25	90-09-26	51.460		2656813.949	219159.298		360
226		161-13-27	90-47-30	52.105	1.600	2656814.042	219159.949	90.666	10
227		161-23-00	90-05-09	51.858	1.600	2656813.819	219159.776	91.309	0
228		160-56-53	90-03-38	52.530		2656814.434	219160.257		231
229		161-49-22	90-03-42	52.118		2656813.540	219160.161		230
230		161-25-25	90-04-47	51.370		2656813.610	219159.334		233
231		171-10-13	90-03-46	63.378		2656807.596	219173.547		280
232		171-25-42	90-40-12	63.093	1.600	2656807.260	219173.319	90.649	10
233		171-40-39	90-04-22	63.187	1.600	2656807.009	219173.468	91.306	0
234		171-20-51	90-05-55	62.860		2656807.303	219173.077		231
235		172-01-37	90-05-59	62.597		2656806.523	219172.959		230
236		172-13-14	90-06-23	63.429		2656806.464	219173.816		233
237		148-31-06	88-35-44	39.144		2656816.999	219143.848		3
238		131-34-57	85-33-12	29.374		2656817.852	219129.861		3
239		131-34-57	85-33-13	29.374		2656817.852	219129.861		3

三次元數值地形測量計算表

工程名稱:臺中市霧峰區豐正段 777 地號等五筆土地測量、地質鑽探等調查作業 第 47 頁 共 47 頁

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第六章、成果圖