City of Plano
Geodetic Control Station

City of Plano Project No.:	**5843**	**Station Name:**	**221 C3B**
Gorrondona & Associates Project No.:	0901-3510	**GPS Point No.:**	**100**
County: Denton **State:**	Texas	**Established By:**	**Halff**
Unit of Measure:	US Survey Foot	**Date Established:**	**1986**
2009 H&V Survey Method:	GPS Observations	**ReSurvey By:**	G&AI
Horizontal Survey Quality:	Second Order, Class 1	**ReSurvey Date:**	2009
Vertical Survey Quality:	See Notes 1 and 2 below		
Mark Logo:	3 1/4" Domed Alum. Disk	**Condition:**	Good
Stamping:	City of Plano Survey Marker, 221 C3B		

NAD83 NSRS 2007	**Latitude:**	**33°01'33.55456"N**	**Longitude:**	**96°50'36.80510"W**
NAD83 NSRS 2007	**Ellipsoid Height:**	**621.17**	**Epoch Date:**	2002
	Geoid Height:	**-86.82**	**Geoid Model:**	GEOID03

City Wide Surface Adjustment Factor	**1.00015421**

Texas North Central Zone (4202) State Plane Coordinate Listing

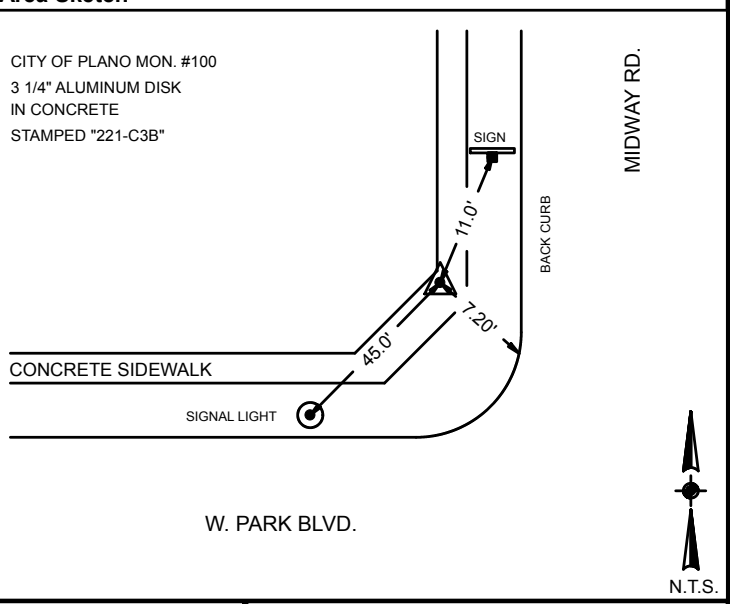
Horizontal Datum	Horizontal Adjustment	Coordinate Type	Northing	Easting
NAD83	**NSRS 2007**	**Surface**	**7,061,292.89**	**2,476,520.01**
NAD83	NSRS 2007	Grid	7,060,204.14	2,476,138.16
NAD83	HARN 1993	Grid	7,060,204.16	2,476,138.18
NAD27	1986	Grid	495,105.01	2,201,274.15
Elevation	**NAVD 1988**	**707.99**	NGVD 1929	708.01

To Reach Description:

Located at the Northwest Corner of W. Park Blvd. and Midway Rd. in a sidewalk.

Aerial Photo

Area Sketch



Station Ties:

Object	Distance (Feet)	Direction
Signal Light	45.0'	Northeast
Street Sign	11.0'	Southwest
Back of Curb	7.2'	Northwest

Prepared By:

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Texas Registration Number 1965

Notes:
1. **This survey was constrained in the horizontal and vertical component to the published NAD83 HARN positions and NAVD88 Elevations for 19 City of Plano monuments,four NGS stations (horizontally and/or vertically) and four CORS stations.**
2. **Elevations of City of Plano control stations are based solely on GPS Observations. Vertical Accuracy will be based on the quality of the GEOID03 Model and the vertical stability of the monuments constrained in the vertical component.**
3. **The NAD83 NSRS2007 Surface Northing and Easting is based on multiplying the Grid Coordinate Values by the City Wide Surface Adjustment Factor of 1.00015421.**

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