

ORANGE COUNTY SURVEYOR

SURVEY NOTES

A/5-9

1280

WORK ORDER NUMBER: EC29987
SURVEY FILE NUMBER: 045HBP02
SURVEY COMPLETED: 1-11-05

ALIGNMENT INDEX BOOK & PAGE

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PROJECT NAME: Holderman Park
SURVEY LIMITS: 17th Street and Gershon St and El Modena-Irvine Channel
THOMAS BROTHERS: Pg. 830 C1
PURPOSE OF SURVEY: Provide topographic mapping and locate boundary of Holderman park.

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SURVEY EQUIPMENT:

<i>Javad RTK GPS System</i>
<i>Leica TCRA-1103 Total Station</i>
<i>Leica NA-3003 Electronic Level</i>

HORIZONTAL DATUM:

CCS83 Zone VI 1991.35 epoch adj

VERTICAL DATUM

NGVD29 1995 OCS adj.

HORIZONTAL CONTROL POINTS:

1. <i>GPS 1554</i>
2. <i>GPS 6011</i>
3. <i>GPS 6012</i>

VERTICAL CONTROL POINTS:

1. <i>OCS BM 3C-22-71 (Elev. 172.296')</i>
2. <i>OCS BM 3C-25-91 (Elev. 185.011')</i>

REFERENCES / REMARKS

Tract 5391 MM 209/40-41
OCS A/5-9 529, 531, 533, and 535

DISCLAIMER:

Coordinates shown hereon are project specifics. They are not intended to be used outside the scope of this project.

PERSONNEL:

<i>B. Klingenberg</i>	<i>PC</i>
<i>D. Lomicka</i>	<i>Inst</i>
<i>J. Cummins</i>	<i>R&C</i>

THIS SURVEY WAS PERFORMED
UNDER MY SUPERVISION.

Brytt Klingenberg
BRYTT KLINGENBERG
SURVEY PARTY CHIEF

1-18-05
DATE:

THIS SURVEY WAS PERFORMED
UNDER MY DIRECTION.

Craig S. Wehrman
CRAIG WEHRMAN L.S. 6131
SENIOR LAND SURVEYOR

DATE: 1/20/05



SURVEY SUMMARY

This survey was accomplished using a mix of GPS RTK technology and conventional survey methods. A GPS base station was set up on GPS 6011. Local parameters were entered and solved and a check was made to GPS 1554. This check revealed acceptable error: 1554, N err: 0.014, E err: -0.030. Random points for topo collection and for use to conventionally position found boundary monuments were set and positioned. The GPS base station was then moved to GPS 1554 and the same points were positioned again so as to "double determine" them. All topo work and conventional positioning of found monuments was done from these points.

Horizontal Datum: CCS83 Zone VI 1991.35 epoch adj.
Vertical Datum: NGVD29 1995 OCS adj.

combination factor 0.99997845

	Topo Control		
Pt#	Northing	Easting	Elev.
101	2223501.59	6086460.85	170.41
102	2223655.37	6086402.42	173.84
103	2223661.44	6086287.62	173.75

	Found Boundary Monuments		
Pt#	Northing	Easting	
106	2223704.74	6086443.09	
118	2223380.20	6086448.13	
119	2223441.89	6086443.23	
120	2223309.12	6086454.61	
121	2223410.86	6086443.26	
122	2223344.89	6086453.60	
123	2223308.59	6086435.13	
124	2223642.81	6086967.80	
125	2223641.91	6086975.33	
126	2222675.01	6086471.25	
127	2222707.27	6086195.85	
128	2223377.26	6086428.77	

	GPS Control		
Pt#	Northing	Easting	Elev.
GPS 1554	2223684.759	6085471.405	172.296
GPS 6011	2223446.386	6088635.251	
GPS 6012	2223732.639	6086205.702	

P+	Back	Fore	Elev.	Elev.	
3C-25-91	6.0932		185.011	[185.011] Record	OCS BM 3C-25-91 NGVD29 1995 OCS adj.
		5.2746			
TP	3.8571		185.830		
		7.0442			
TP	4.5458		182.642		
		6.4858			
TP	2.0936		180.703		
		7.1213			
TP	3.9527		175.675		
		6.2792			
TP	5.0930		173.348		
		8.0179			
101	7.3492		170.423	(170.41 adj.)	Topo PT # 101
		3.9177			
102	5.4872		173.855	(173.84 adj.)	Topo PT # 102
		5.5652			
103	5.8694		173.777	(173.75 adj.)	Topo PT # 103
		4.7295			
TP	4.2289		174.917		
		5.6985			
TP	4.5147		173.447		
		5.6339			
3C-22-71			172.328	[172.296] Record	OCS BM 3C-22-71 NGVD29 1995 OCS adj.















