

SURVEYING and MAPPING TIPS and TRICKS

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SURVEYING and MAPPING Tricks and Tips

- CONVERSION OF GRID TO GEOGRAPHIC GEOGRAPHIC TO GRID and WGS 84(USING SMART PHONES)
- USING GOOGLE EARTH IN SURVEYING and MAPPING, GEOREFERENCING GOOGLE EARTH IMAGES TO AUTOCADD
- INSERTING GOOGLE MAPS IN YOUR PLAN VICINITY MAP and LOCATION PLAN





DOWNLOAD PRS 92 APPLICATION PLAY STORE (ANDROID) APPS STORE (iphone) LOT 1005 TARLAC CADASTRE SAN ROQUE, TARLAC CITY

Tie line: BBM No.13 Tarlac Cadastre S.19-27 E.299.50 m.

1-2 S.29-17 W. 109.77 m.
2-3 S.84-35W. 57.79 m.
3-4 N.27-56E. 141.06 m.
4-5 S.62-34E. 35.93 m.
5-1 S.62-34E. 14.93 m.

AREA=6,194 Sq.m

BLLM No.1 TARLAC CADASTRE N= 30,000.00 E=30,000.00

LAT. 15-29-19.28 LONG=120-35-13.02

BBM No. 13 TARLAC CADASTRE N=29839.45 E=30181.81

CONVERT BLLM No. 1 TO GRID COORDINATES
 CONVERT THE GRID COORDINATES OF LOT 1005 TO

GEOGRAPHIC COORDINATES and TO WGS 84



ENCODE the Lat. and Long. of BLLM No.1 using GEOGRAPHIC to GRID N=1712915.683 E=455680.054

GRID COORDINATES OF LOT 1005 TARLAC CADASTRE NORTHINGS EASTINGS

- 1 1712472.723 455961.594
- 2 1712376.983 455907.904
- 3 1712371.523 455850.374
- 4 1712496.153 455916.454
- 5 1712479.603 455948.344



CONVERT TO GEOGRAPHIC

PPCS-TM/PRS 92 GEOGRAPHIC COORDINATES Latitude: 15° 29' 4.885" Longitude: 120° 35' 22.494" *To God be the glory!*

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CONVERT the GRID COORDINATES of LOT 1005 to GEOGRAPHIC Coordinates

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GEOGRAPHIC COORDINATES of LOT 1005

▶ 1	15-29-4.885	120-35-22.494
▶ 2	15-29-1.77	120-35-20.70
▶ 3	15-29-1.58	120-35-18.77
▶ 4	15-29-5.64	120-35-20.98
▶ 5	15-29-5.11	120-35-22.05

Convert the GEOGRAPHIC COORDINATES of LOT 1005 to WGS 84 using the PRS92 to WGS 84



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Developed for Geodetic Engineers of the Phils.					
Input Type:	Deg.Min.Sec				
Pt name:			3		
Latitude:	15	29	1.58		
Longitude:	120	35	18.77		
Height:			20		

TRANSFORM TO WGS 84

WGS 84 GEOGRAPHIC COORDINATES Latitude: 15° 28' 55.93011" Longitude: 120° 35' 23.59093" Ellipsoidal Hgt: 60.003 m.

To God be the glory!



TRANSFORM TO WGS 84

WGS 84 GEOGRAPHIC COORDINATES Latitude: 15° 28' 59.98991" Longitude: 120° 35' 25.80083" Ellipsoidal Hgt: 60.001 m.

To God be the glory!



TRANSFORM TO WGS 84

WGS 84 GEOGRAPHIC COORDINATES Latitude: 15° 28' 59.45996" Longitude: 120° 35' 26.87084" Ellipsoidal Hgt: 60.002 m.

To God be the glory!

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LOT 1005 (WGS 84)

- ▶ 1 15-28-59.23499
- ▶ 2 15-28-56.12014
- **3** 15-28-55.93011
- ▶ 4 15-28-59.98991
- ▶ 5 15-28-59.45996

120-35-27.31485 120-35-25.52092 120-35-23.59093 120-35-25.80083 120-35-26.87084

Encode the Geographic Cooordinates Using Google Earth Application

2. USING GOOGLE EARTH IN SURVEYING and MAPPING ADD PLACEMARK COMMANDS

Soogle Earth Pro



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ENCODE WGS 84 COORDINATES LAT. and LONG. OF CORNER 1 TO 5 OF LOT 1005 TARLAC CADASTRE



CORNER 1 LAT. 15-28-59.23499 LONG. 120-35-27.31485 Click ok..



Lot 1005 Tarlac Cadastre WGS 84 COORDINATES encoded

ADD PATH

Soogle Earth Pro

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SAVING IMAGE

GEOREFERENCING GOOGLE EARTH IMAGES TO AUTOCADD

overlay google earth images. Insert/ Raster Image/Align Command:





Inserting Google Maps/ Sketch Plan/Vicinity Map





PRINT SCREEN THE IMAGES/ OPEN PAINT APPLICATION and PASTE, SAVE AS JPEG IMAGES/ OPEN THE IMAGES AND CROP



INSERT THE GOOGLE MAPS IMAGES TO AUTOCAD DRAWING





FINAL SKETCH PLAN























THANK YOU!!!!

gepnechapter.blogspot.com