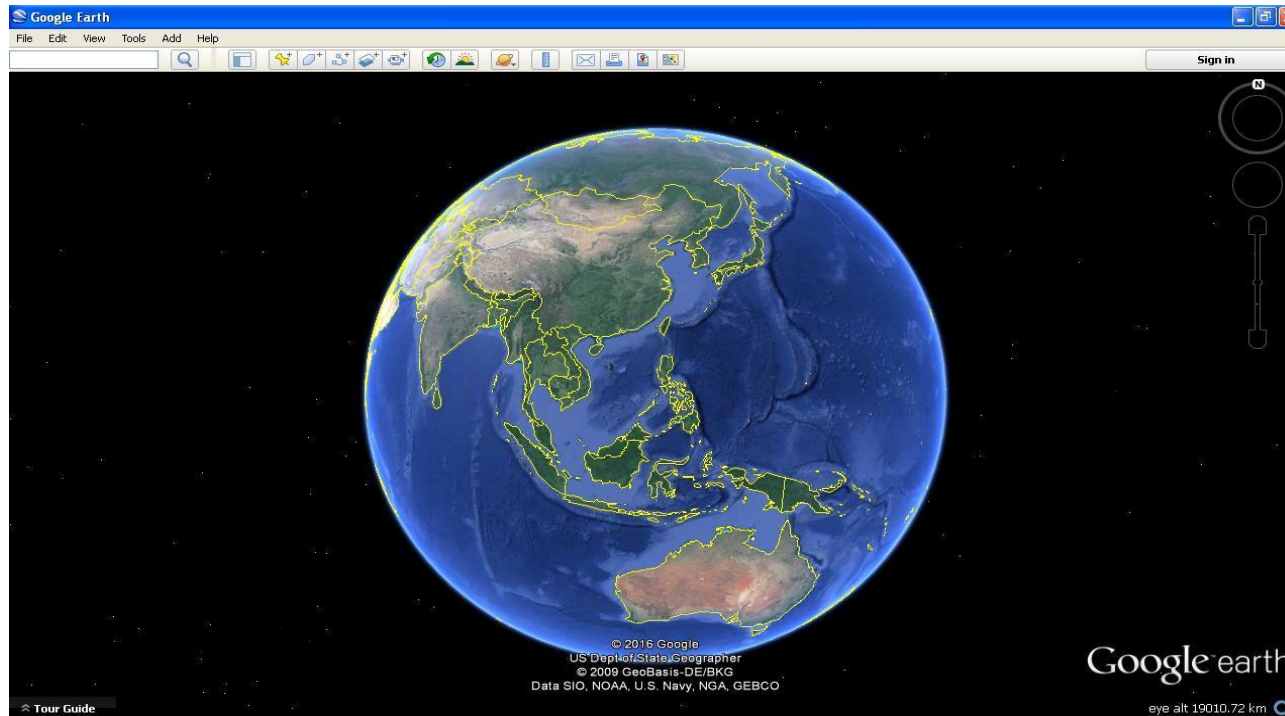


## APPLICATION OF GOOGLE EARTH ON PROPERTY SURVEYING

ENGR. YERWIN A. CAPUZ

BOD, GEP III



- HOW TO INSTALL GOOGLE EARTH IN YOUR DESKTOP COMPUTER OR LAPTOP?
- GOOGLE EARTH APPLICATION IS FREE TO DOWNLOAD
- INTERNET CONNECTIONS



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Google.com.ph offered in: Filipino Cebuano



google earth



yerwin



All Maps Images Apps Videos More Search tools



About 236,000,000 results (0.73 seconds)

### Google Earth

<https://earth.google.com/>

Google Earth lets you fly anywhere on Earth to view satellite imagery, maps, terrain, 3D buildings, from galaxies in outer space to the canyons of the ocean.

#### Download Google Earth

Google Earth lets you fly anywhere on Earth to view satellite ...

#### Google Earth plug-in

The Google Earth plug-in allows you to navigate and explore ...

#### Google Earth Pro

Google Earth lets you fly anywhere on Earth to view satellite ...

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Official Google Earth Help Center where you can find tips and ...

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### In the news



#### Google Earth mystery of 'plane in the bottom of lake' is finally solved - Mirror Online

Mirror.co.uk - 12 hours ago

The mystery of a plane pictured 'submerged in a lake' on Google Maps has finally been ...

Mystery of the plane at the bottom of Lake Harriet on Google Earth is finally solved

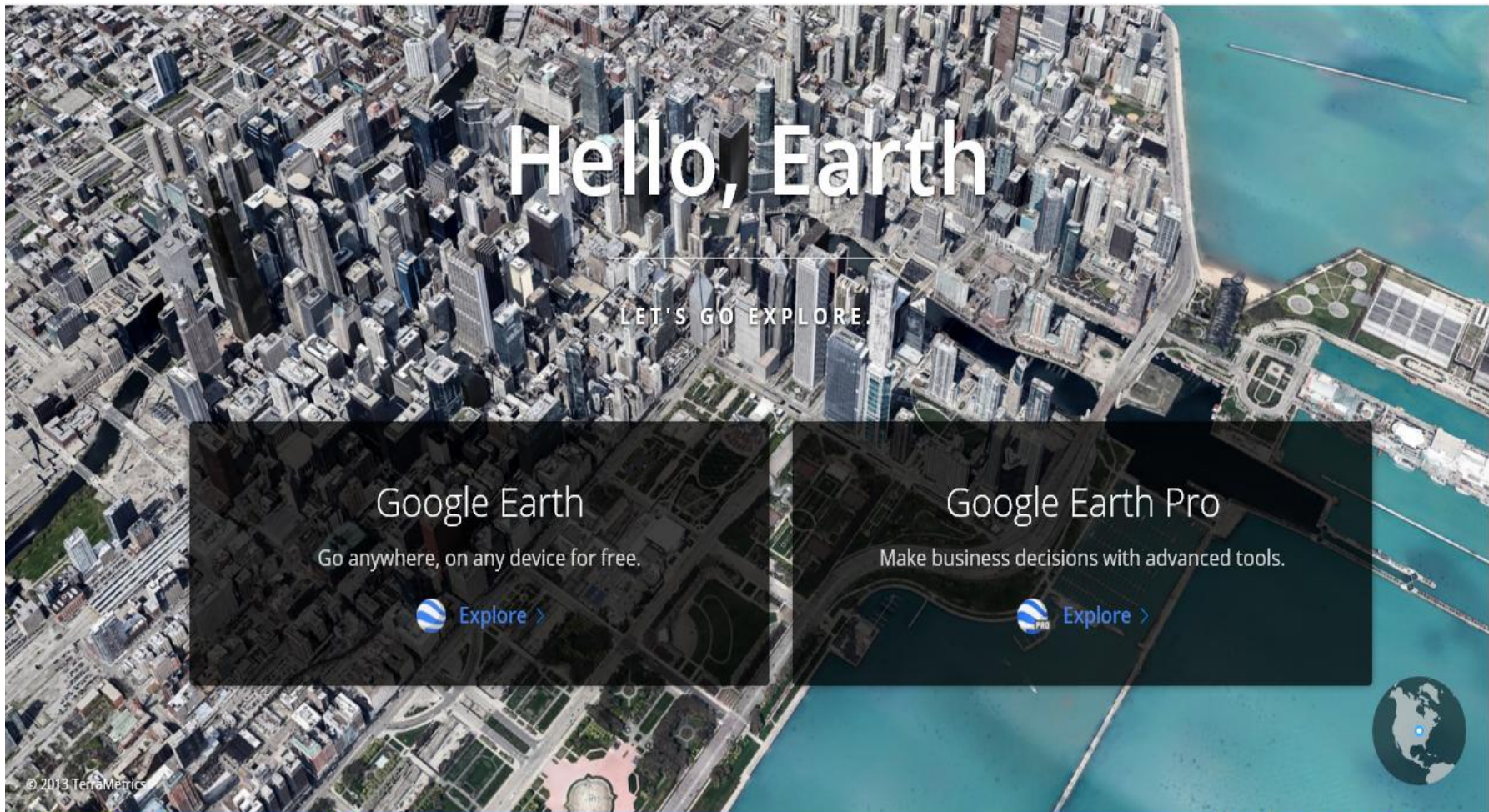
Daily Mail - 15 hours ago

Mystery of plane sunk in Minneapolis lake on Google Earth solved

Telegraph.co.uk - 10 hours ago

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Last Modified: December 17, 2015

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Mac - Mac OS X 10.6.0 or later

Linux - LSB 4.0 (Linux Standard Base) libraries

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English (US)

GoogleEarthSetup (1).exe  
GoogleEarthSetup (1).exe

start Google Earth - Googl... GOOGLE EARTH APPL...

nero @SEARCH 6:31 AM

Norton by Symantec  
software\_reporter\_tool.exe is safe.  
[View Details](#)

## Thank you

Thank you for downloading Google Earth. Your download is complete.

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#### Google Earth Blog (unofficial)

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**Open File - Security Warning**

Do you want to run this file?

Name: GoogleEarthSetup (1).exe  
Publisher: [Google Inc](#)  
Type: Application  
From: C:\Documents and Settings\Compaq\My Document...

Always ask before opening this file

 While files from the Internet can be useful, this file type can potentially harm your computer. Only run software from publishers you trust. [What's the risk?](#)

Google Earth news:

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ex: Computer repair near Boston

Get Directions History

- My Places
  - Sightseeing Tour
    - Make sure 3D Buildings layer is checked
    - LOT 173
    - BBM NO.32
    - MapSource
    - Waypoints

Layers

- Primary Database
  - Voyager
  - Borders and Labels
  - Places
  - Photos
  - Roads
  - 3D Buildings
  - Ocean
  - Weather
  - Gallery
  - Global Awareness
  - More



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Start-Up Tip

## Navigating in Google Earth

- Navigating in Google Earth
- Send feedback
- Navigating with Street View
- Find your house
- Searching for places
- Viewing layers
- Using tours
- Viewing the past



- Use Look (top of the controls) to look around from one vantage point.
- Click and drag the ring around Look joystick to rotate the view.
- Use Move (center of the controls) to move down, up, right or left.
- Use the zoom slider to zoom in or out (+ to zoom in, - to zoom out).

[Learn more about using the navigation controls >](#)

Discover new ways to use Google's mapping tools with [Mapping with Google](#).

Show tips at start-up Close



US Dept of State Geographer  
 Data SIO, NOAA, U.S. Navy, NGA, GEBCO  
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Google earth

eye alt 14513.63 km

- HOW TO FIND PROPERTY IN GOOGLE EARTH?

- a.) Title of the Property

- b.) Reference Plan if available

- c.) Technical Descriptions

- d.) TIE POINT (True Coordinates)

- e.) Plot Technical Descriptions in Autocadd



No. 0010071045 REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF JUSTICE  
Land Registration Authority  
QUEZON CITY

REGISTRY OF DEEDS FOR THE CABANATUAN CITY

### Transfer Certificate of Title

No. T-1402917

It is hereby certified that certain land situated in the City of Cabanatuan Philippines

bounded and described as follows:  
A parcel of land (Lot 3858-2-1 of the subd. plan (LRC) Psd-288407, approved as a non-subd. project, being a portion of Lot 3858-B, (LRC) Psd-36333, LRC Cad. Rec. No. 103) situated in the Bo. of Macatbong, Cabanatuan City, Is. of Luzon. Bounded on the NE., pts 1 to 2 by Road Lot 3858-B, Psd-36333, City of Cabanatuan. on the SE., pts 2 to 3 by Lot 3857 on the SW., pts 3 to 4 by Lot 1917, both of Cabanatuan Cad. and on the NW., pts 4 to 6 and 6 to 1 by Lot 3858-B-2 of the subd. plan. Beginning at a point marked "21" on plan bearing S. 36 deg. 08'W., 874.94 m. from MEM No. 1, Cabanatuan Cad. S. 20 is registered in accordance with the provisions of the Property Registration Decree in the name of

DEVELOPMENT BANK OF THE PHILIPPINES,

as owner thereof in fee simple, subject to such of the encumbrances mentioned in Section 44 of said Decree as may be subsisting, and to acquired thru foreclosure of mortgage.

It is further certified that said land was originally registered on the 9th day of Feb. in the year nineteen hundred and twenty-eight in the Registration Book of the Office of the Register of Deeds, Nueva Ecija, Volume A-22 page 61, as Original Certificate of Title No. 103, pursuant to Decree No. issued in L. R. C. Cad. 103, in the name of T-833277 which

This certificate is a transfer from Certificate of Title No. T-833277 which is cancelled by virtue hereof in so far as the above-described land is concerned.

Entered at Cabanatuan City  
Philippines, on the 2nd day of July  
in the year two thousand and ten  
at 1:30 P.M.

ATTEST:

Cabanatuan City  
(Owner's postal address)

ATTY. FIDEL G. ORTALEZA  
(Register of Deeds)

\*State the civil status, name of spouse if married, age if a minor, citizenship and residence of the registered owner. If the owner is a married woman, state also the citizenship of her husband. If the land is registered in the name of the conjugal partnership, state the citizenship of both spouses.

### MEMORANDUM OF ENCUMBRANCES

(When necessary use this page for the continuation of the technical description)

THIS PLAN  
deg. 49'E., 340.69 m. to point 2; S. 64 deg. 15'W., 604.87 m. to point 3; N. 15 deg. 36'W., 344.89 m. to point 4; N. 64 deg. 15' E., 200.00 m. to pt. 5; N. 64 deg. 15'E., 173.43 m. to pt. 6; N. 64 deg. 15'E., 200.00 m. to the point of beginning; containing an area of TWO HUNDRED THOUSAND (200,000) SQUARE METERS. All pts. referred to are indicated on the plan and are marked on the ground as follows, pts 2 by old PS points 3 by OLD BL & the rest by PS cyl. conc, mons 15x60 cm. bearings true, date of the orig. sur. June 1914-July 1915 and that of the subd. sur. ex. by DL Javier, G.B. on May 20 & 23, 1979.

Register of Deeds

XXX

NOTHING FOLLOWS

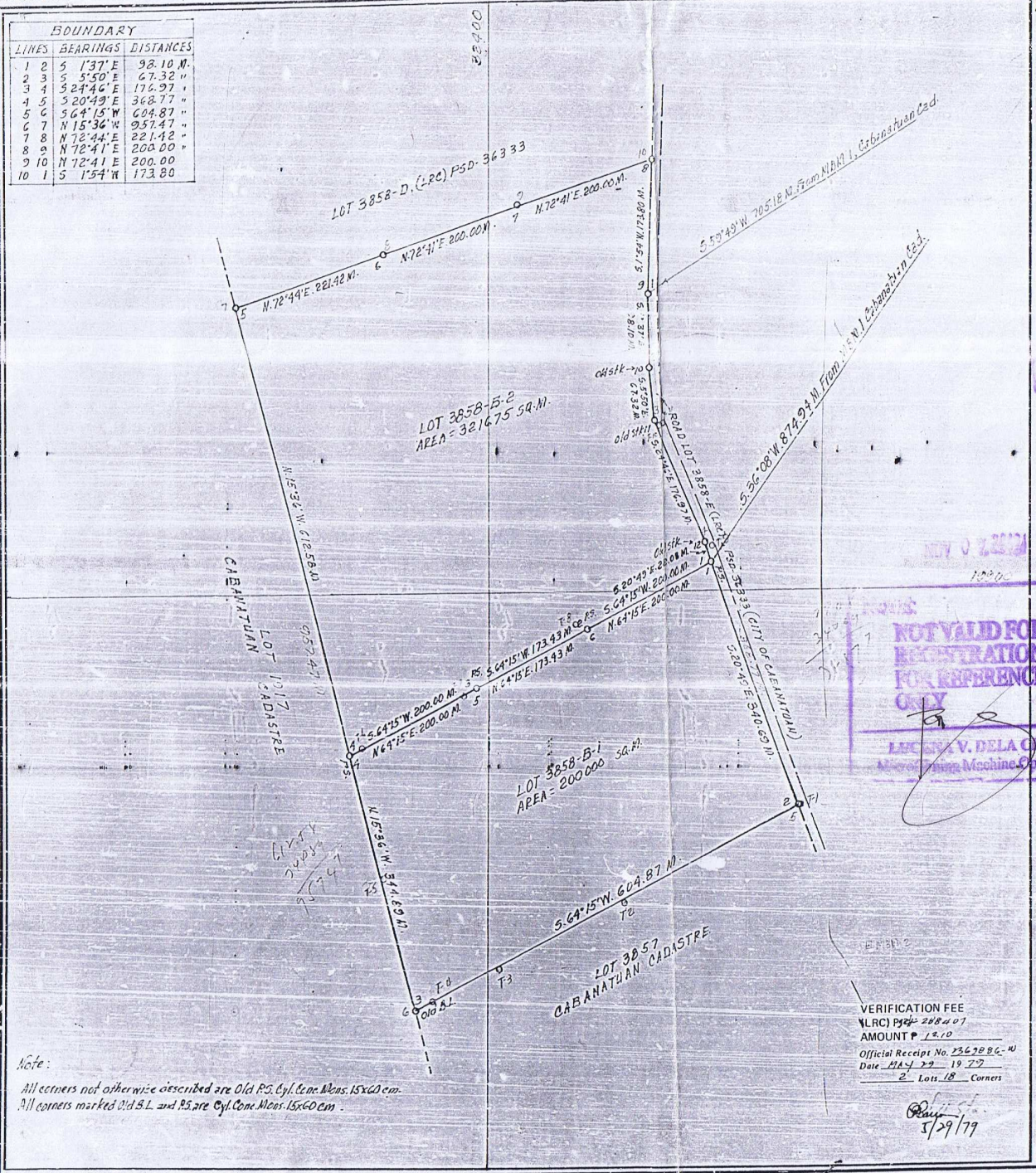
All subsequent encumbrances shall be noted in electronic form in the PHIL  
Date 9-17-2010

(Memorandum of Encumbrances continued on Page -B-)  
(Technical Description continued on Additional Sheet Page -)

Register of Deeds



BOUNDARY			
LINES	BEARINGS	DISTANCES	
1	S 1°37' E	98.10	M.
2	S 5°50' E	67.32	"
3	S 24°46' E	176.97	"
4	S 20°49' E	368.87	"
5	S 64°15' W	604.87	"
6	N 15°36' W	257.47	"
7	N 72°44' E	221.42	"
8	N 72°41' E	200.00	"
9	N 72°41' E	200.00	"
10	S 1°54' W	173.80	"



Note:  
All corners not otherwise described are Old P.S. Cyl. Cone Mens. 15x60 cm.  
All corners marked Old B.L. and B5 are Cyl. Cone Mens. 15x60 cm.

VERIFICATION FEE  
V.L.R.C. P# 288407  
AMOUNT P 12.10  
Official Receipt No. 2367086-W  
Date MAY 29 1977  
2 Lots 18 Corners

5/29/77

LRC CAD REC. No. 109

# PLAN

OF  
SUBDIVISION SURVEY MADE FOR  
**SP. P. MANOLO P. ESPINOZA & CARMELITA GEMPESAW**  
OF LOT 3858-B, (LRC) PSD-36333  
DESCRIBED IN TCT No. T-8774 (PART)  
ISSUED IN FAVOR OF  
**MARCIA A. ESPINOSA**

SITUATED IN THE  
HURBAN CODE 03 03 81  
BARRIO/DISTRICT OF: MACATBON  
MUN./CITY OF: CABANATUAN  
PROVINCE OF:  
ISLAND OF: LUZON

Containing an Area of **521675** Sq. M.  
BEARINGS TRUE/GRD  
SCALE: 1:1000

**NOT TO SCALE**

I certify that this is a correct plan of the land survey herein plotted in accordance with the actual measurements and observations performed by me; that the boundaries of the property indicated to me by the owner or his authorized representative are identical with those stated in the Certificate of Title subject matter hereof; that the corners along the boundary of each lot shown in this plan are marked on the ground by concrete monuments or other visible marks as described; that there is no alteration of the boundary, proportionate area as appearing in the title(s) subject of the plan; that the survey and plat are both accurate; that the survey was executed with the full knowledge and consent of the owner(s); and that the survey was executed by me in conformity with the existing laws of the Republic of the Philippines and the regulations of the Land Registration Commission.

SURVEYED: **MAY 20 & 23, 1979** BY:  
**GEORGIAS L. DAVIER**  
GEODETIC ENGINEER  
Reg. Cert. No. 41 Date: 2-28-65  
PTR No. 1204619 Date: 1-3-72

ORIGIN: SURVEY: JUNE, 1914 - JULY, 1915

Ministry of Justice  
LAND REGISTRATION COMMISSION  
Verified and recommended for approval as a simple plan

Quezon City, **MAY 6** 1979  
WILLY O. DAGO  
ACTG. Chief Division of Registered Lands

APPROVED pursuant to R.A. 440  
Quezon City, Philippines **MAY 6** 1979

**SANTIAGO M. KAPUNAN**  
ACTG. COMMISSIONER OF LAND REGISTRATION

Plotted on P.M./M.M. No. ....	Date .....
Recorded by <b>SEC. EXAM.</b>	Date <b>5-29-79</b>
Plan checked against title .....	Date .....
Prel. Exam. ....	Date <b>5-30-79</b>
Sec. Exam. <b>Davies</b>	Date <b>6-26-79</b>
Final Exam. ....	Date <b>6-26-79</b>

Additional information and remarks  
Certified xerox copy of title submitted.  
1156

(LRC) P# 288407



- TECHNICAL DESCRIPTIONS

LOT 3858-B-1 (LRC) PSD-288407

AREA=200,000 Sq.m.

TIE POINT MBM No. 1 CABANATUAN CADASTRE

N=20643.080 E=33223.520

TP-	S.36-08W.	874.94	19936.437	32707.597
1-2	S.20-49E.	340.69	19617.987	32828.671
2-3	S.64-15W.	604.87	19355.204	32283.866
3-4	N15-36W.	344.89	19687.389	32191.118
4-5	N.64-15E.	200.00	19774.278	32371.258
5-6	N.64-15E.	200.00	19849.624	32527.466
6-1	N.64-15.E	200.00	19936.437	32707.597

AREA=200,000 Sqare Meters.

- CONVERT LOCAL COORDINATES OF LOT to WGS 84
- a.) TRUE COORDINATES of BLLM No. 1 CABANATUAN CADASTRE and GEOGRAPHIC COORDINATES
- b.) Coordinates of MBM No. 1 CABANATUAN CADASTRE
- c.) Geographic Calculator (Geocal) Software
- GRID TO GEOGRAPHIC
- GRID/PTM to WGS 1984



BLLM No. 1 CABANATUAN CADASTRE

N=20000.00 E=20000.00

LATITUDE= 15-29-27.85 LONGITUDE=120-57-47.43

TIE POINT MBM No. 1 CABANATUAN CADASTRE

N=20643.080 E=33223.520

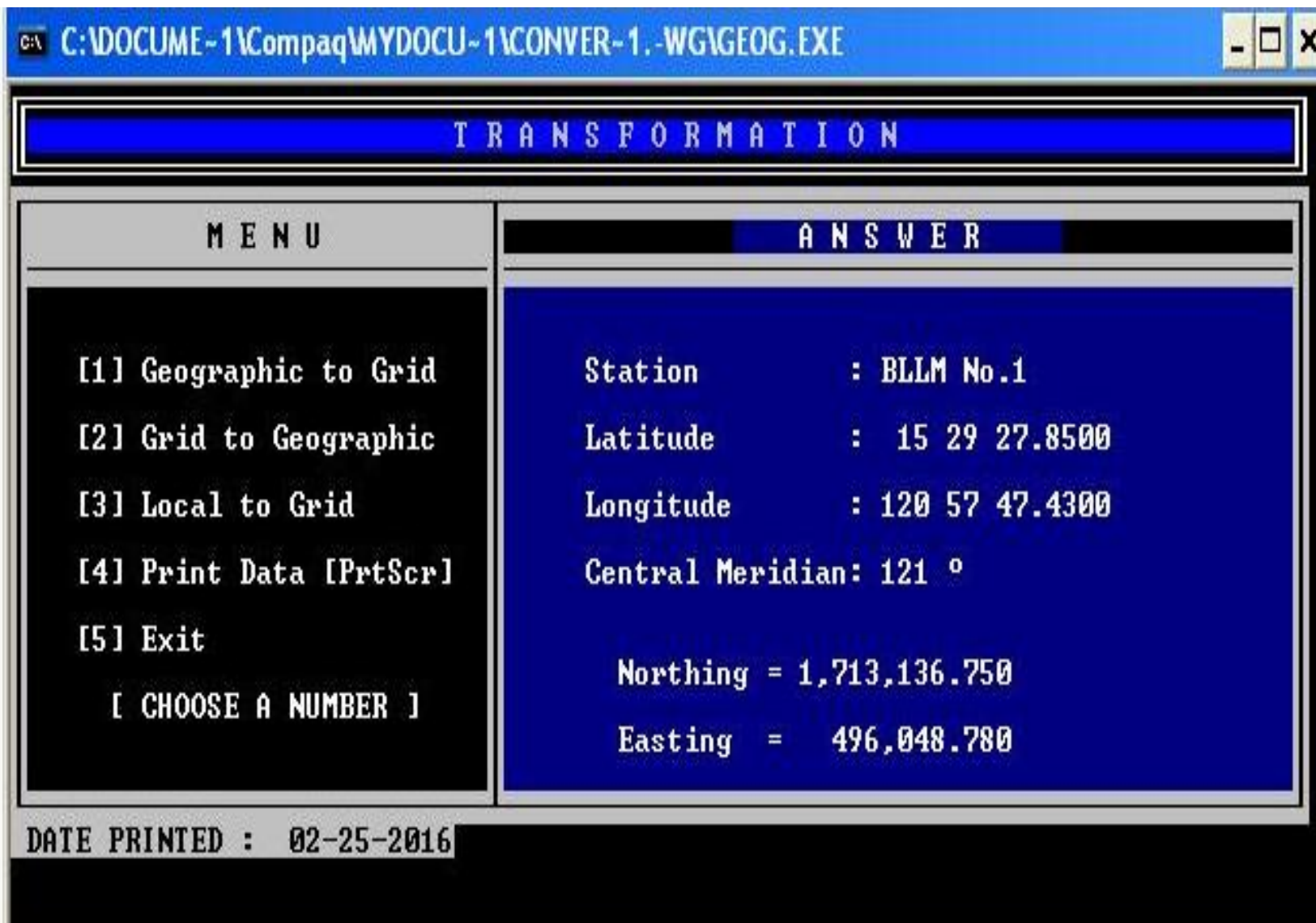
# CONVERT GEOGRAPHIC COORDINATES TO GRID COORDINATES

BLLM No. 1 CABANATUAN CADASTRE

N=20000.00 E=20000.00

LATITUDE= 15-29-27.85 LONGITUDE=120-57-47.43





BLLM No.1 N=1713136.750 E=496048.780



LMB Form No. GSD-B-11

LOT DATA COMPUTATION SHEET

Lot No. : LOT 3858-B-1 Date Surveyed: FEBRUARY 26, 2016 Sheet : 1 / 1  
Owner : DEVELOPMENT BANK OF THE PHILIPPINES YERWIN A. CAPUZ  
Surname, Given Name Geodetic Engineer  
Location : MACATBONG, CABANATUAN, NUEVA ECIJA  
Surv. Sym. & No. : \_\_\_\_\_ L.R.C. No. : \_\_\_\_\_

Sta	Azimuth	C O O R D I N A T E S		Line	Bearing
Cor	Distance	Northings	Eastings	Desc	Distance

Reference: MBM No. 1 CABANATUAN CADASTRE

TP		1,713,779.830	509,272.300	TP-1	S.36-08W. 874.94
1		1,713,073.187	508,756.377	1-2	S.20-49E.
2		1,712,754.737	508,877.451	P.S.	340.69
3		1,712,491.954	508,332.646	2-3	S.64-15W.
4		1,712,824.139	508,239.898	P.S.	604.87
5		1,712,911.028	508,420.038	3-4	N.15-36W.
6		1,712,986.374	508,576.246	P.S.	344.89
1		1,713,073.187	508,756.377	4-5	N.64-15E.
				P.S.	200.00
				5-6	N.64-15E.
				P.S.	173.43
				6-1	N.64-16E.
				P.S.	199.96

AREA = 200,000.00 Sq. m.

Prepared \_\_\_\_\_ Input Data Checked by \_\_\_\_\_ Date \_\_\_\_\_ Date Approved \_\_\_\_\_  
Printed for the exclusive use  
GEODETIC ENGINEERS OF PHILIPPINES, INC.  
43 Mariveles Street, Sta. Mesa Heights  
Quezon City, Philippines  
Authorized by: Lands Management Bureau

GRID/PTM COORDINATES OF LOT 3858-B-1

# CONVERT GRID/PTM COORDINATES OF LOT 3858-B-1 TO WGS84

The screenshot shows the 'The Geographic Calculator' application window. The title bar includes the application name and standard window controls. The menu bar contains 'File', 'Options', and 'Help'. The toolbar features icons for file operations, a key icon, and coordinate system abbreviations (MOL, MRE, MAD). The main interface is split into two columns. The left column is for PTM coordinates, with 'Name' set to 'CORNER 1', 'Northing' at 1713073.187, 'Easting' at 508756.377, 'System' as 'PTM', 'Datum' as an empty field, and 'Zone' as 'Zone 3'. The right column is for Geodetic coordinates, with 'Name' set to 'CORNER 1', 'Latitude' and 'Longitude' as empty fields, 'System' as 'Geodetic', and 'Datum' as '186 WGS 1984'. A 'Meters' button is positioned between the Northing/Easting and Latitude/Longitude fields. At the bottom, there are buttons for 'Forward >>', 'Inverse >>', 'Convert >>', '<< Convert', '<< Inverse', and '<< Forward'. The status bar at the bottom left shows 'Ready'.

Field	Value
Name	CORNER 1
Northing	1713073.187
Easting	508756.377
System	PTM
Datum	
Zone	Zone 3
Latitude	
Longitude	
System	Geodetic
Datum	186 WGS 1984

# WGS 1984 COORDINATES OF LOT 3858-B-1

The screenshot shows the 'The Geographic Calculator' application window. The title bar reads 'The Geographic Calculator'. The menu bar includes 'File', 'Options', and 'Help'. The toolbar contains icons for file operations, coordinate systems (MOL, MRE, NAD), and other functions. The main interface is split into two columns. The left column is for the source coordinate system (PTM) and the right column is for the target coordinate system (Geodetic). Both columns show the same point name 'CORNER 1'. The left column displays Northing (1713073.187) and Easting (508756.377) in meters. The right column displays Latitude (15 29 20.12 N) and Longitude (121 4 58.61 E) in degrees. The 'Convert >>' button is highlighted. The status bar at the bottom shows 'Ready'.

Field	Value	Unit
Name	CORNER 1	
Northing	1713073.187	Meters
Easting	508756.377	Meters
System	PTM	
Datum		
Zone	Zone 3	
Latitude	15 29 20.12 N	Degrees
Longitude	121 4 58.61 E	Degrees
System	Geodetic	
Datum	186 WGS 1984	



LOT DATA COMPUTATION SHEET

Lot No. : LOT 3858-B-1 Date Surveyed: FEBRUARY 26, 2016 Sheet : 1 / 1  
 Owner : DEVELOPMENT BANK OF THE PHILIPPINES YERWIN A. CAPUZ  
 Surname, Given Name Geodetic Engineer  
 Location : MACATBONG, CABANATUAN, NUEVA ECIJA  
 Surv. Sym. & No. : \_\_\_\_\_ L.R.C. No. : \_\_\_\_\_

Sta	Azimuth	COORDINATES		Line	Bearing
Cor	Distance	Northings	Eastings	Desc	Distance

Reference: WGS 84 COORDINATES

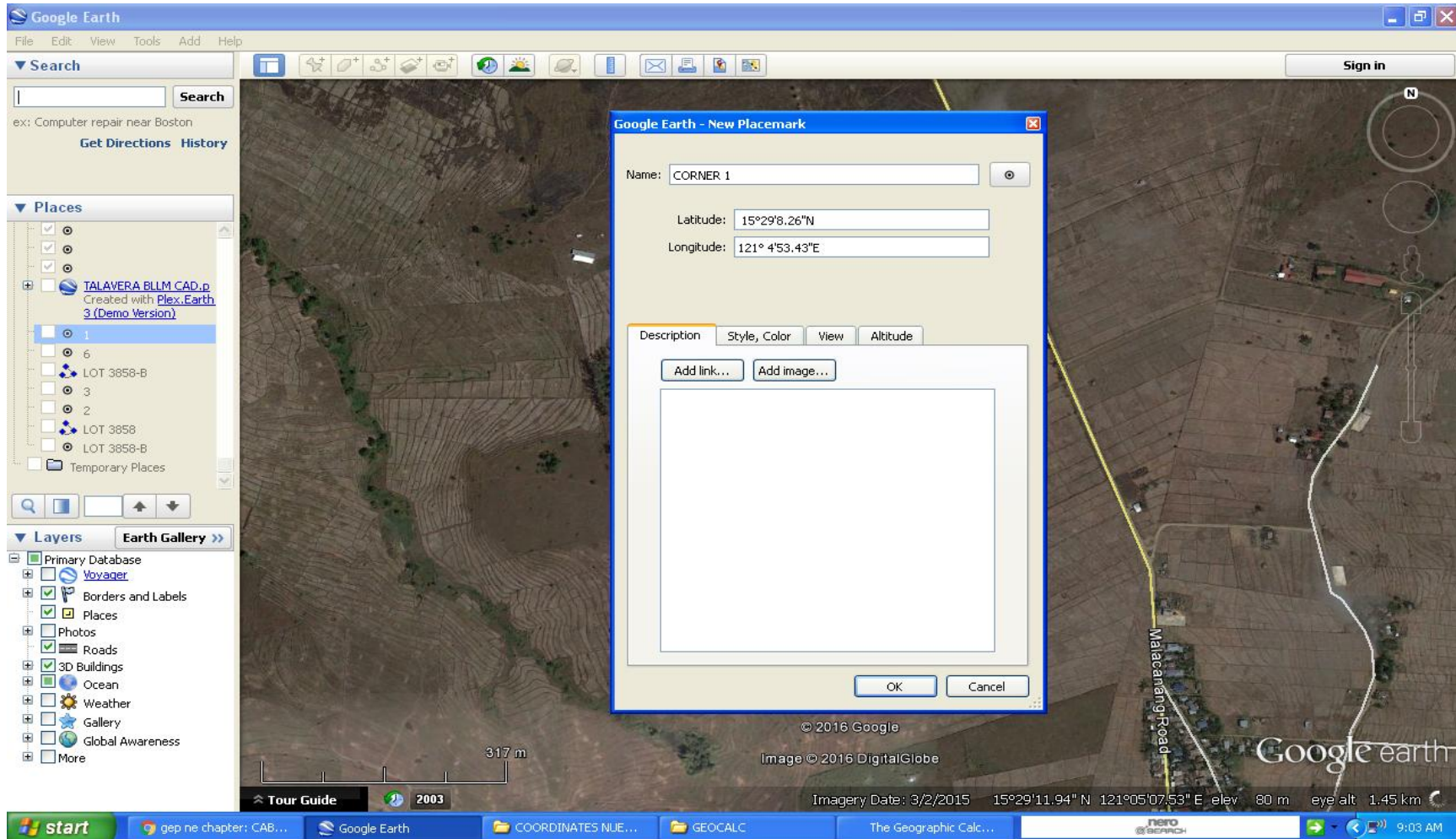
	LATITUDE	LONGITUDE		
1	15-29-20.12	121-04-58.61	1-2	S.20-49E.
			P.S.	340.69
2	15-29-09.76	121-05-02.67	2-3	S.64-15W.
			P.S.	604.87
3	15-29-01.22	121-04-44.38	3-4	N.15-36W.
			P.S.	344.89
4	15-29-12.02	121-04-41.28	4-5	N.64-15E.
			P.S.	200.00
5	15-29-14.85	121-04-47.32	5-6	N.64-15E.
			P.S.	173.43
6	15-29-17.30	121-04-52.56	6-1	N.64-16E.
			P.S.	199.96
1	15-29-20.12	121-04-58.61		

AREA = 200,000.00 Sq. m.

- ENCODE WGS 84 COORDINATES TO  
GOOGLE EARTH
- USING ADD PLACEMARK and ADD PATH  
COMMAND

# GOOGLE EARTH COMMANDS

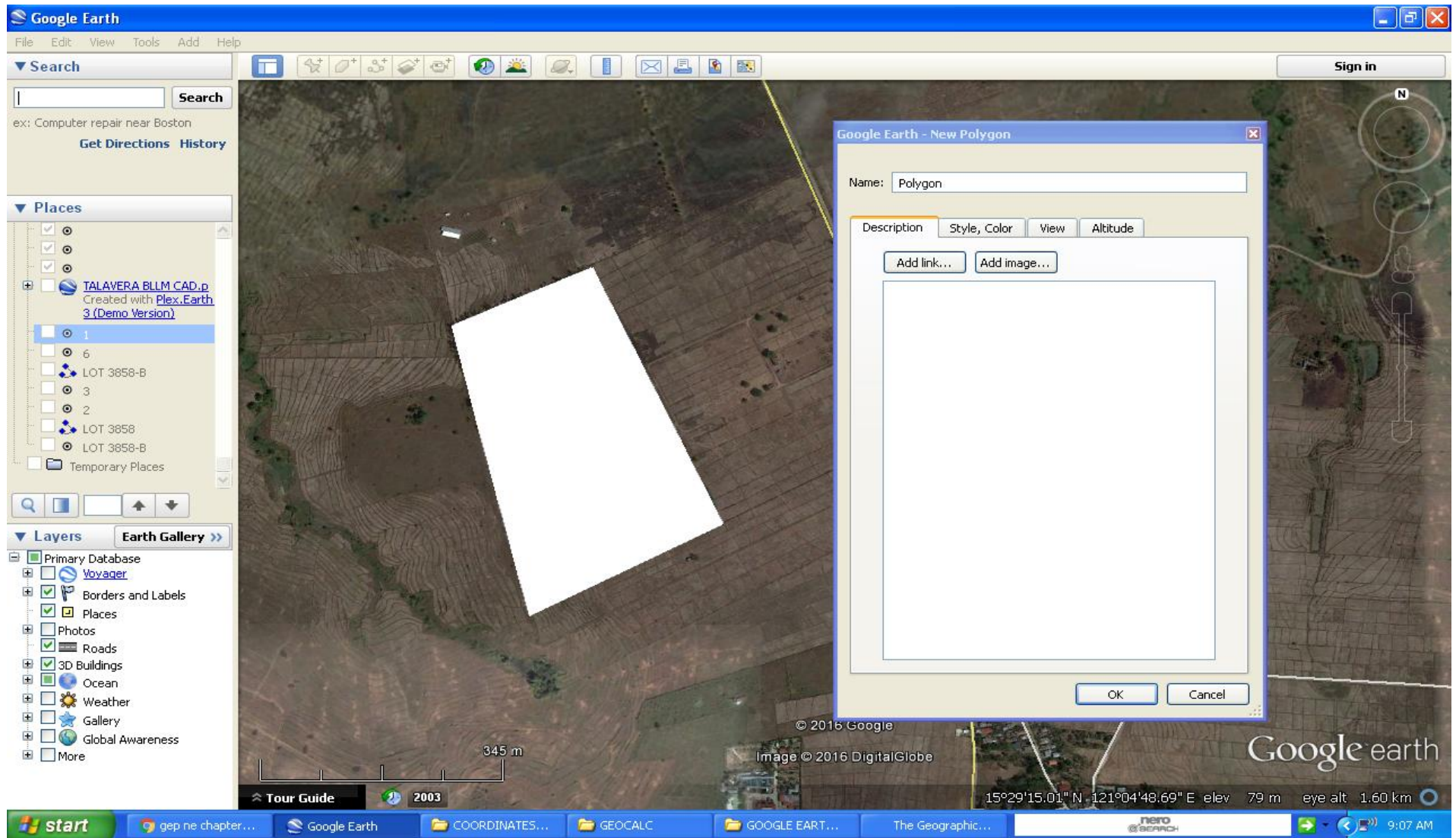
## ADD PLACEMARK



ENCODE WGS 84 COORDINATES LAT. and LONG. IN THE DIALOG BOX THEN CLICK OK

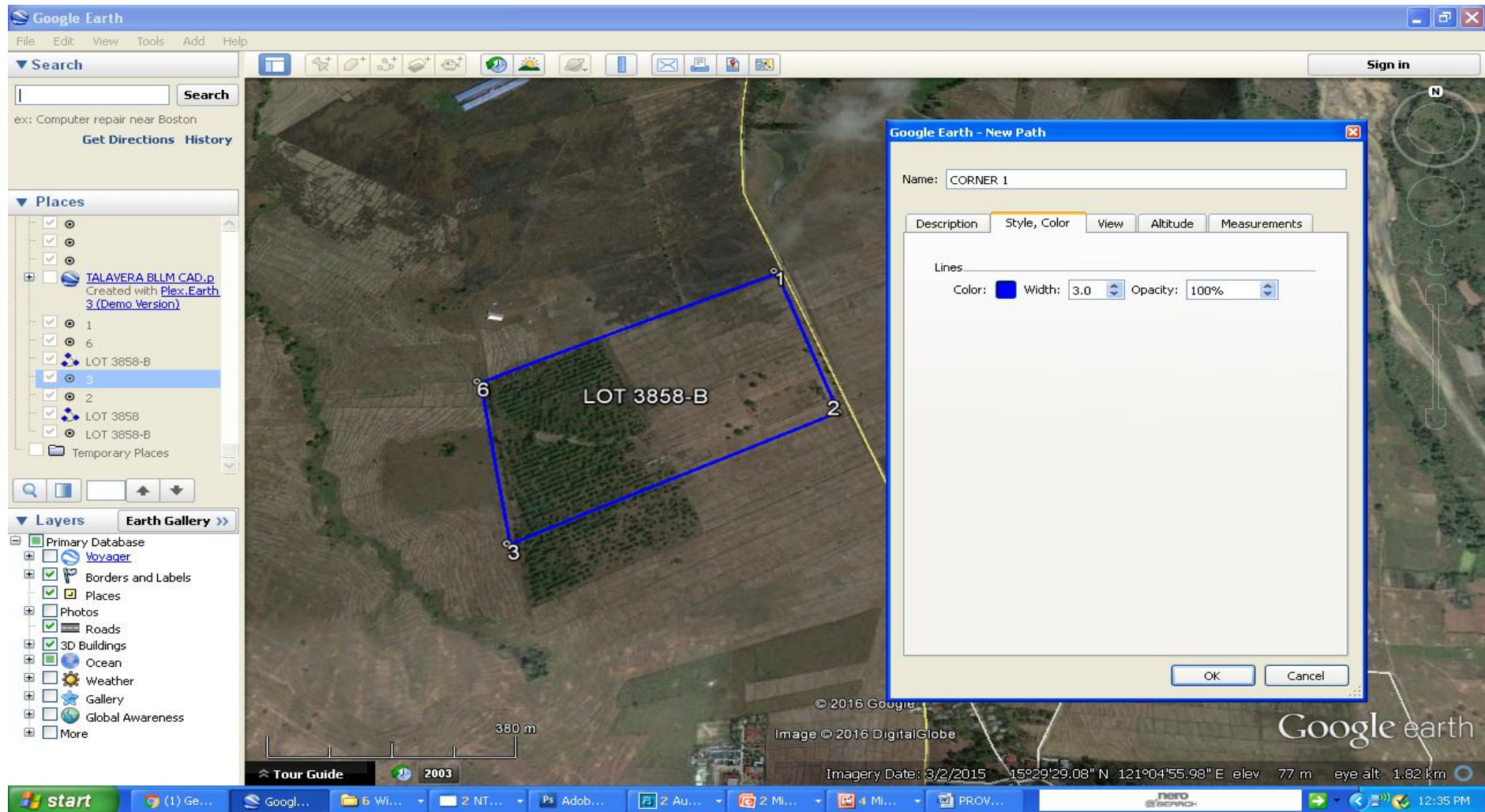


# ADD POLYGON



PICK THE POINTS YOU WANT TO HATCH OR SHADE

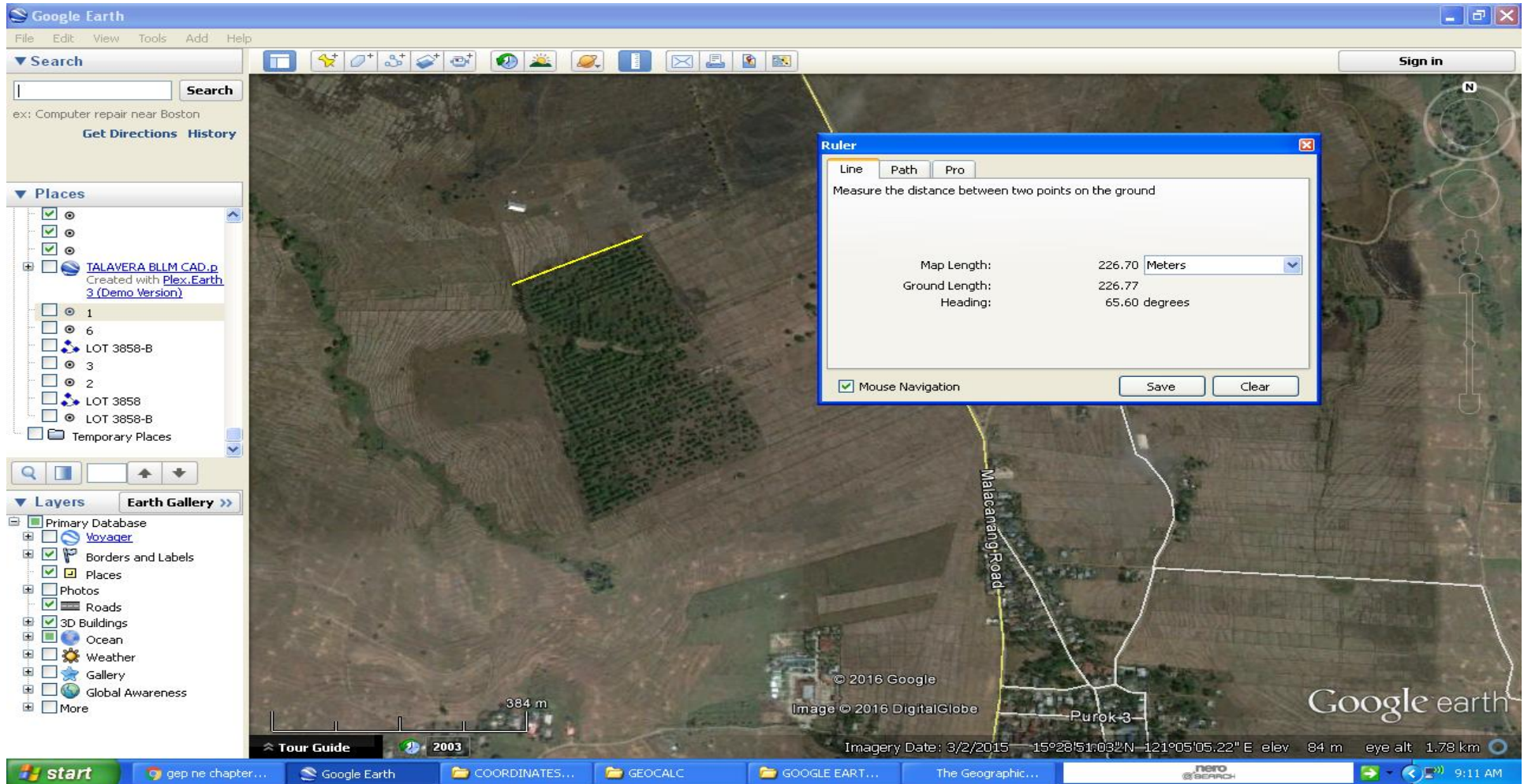
# ADD PATH



PICK THE END CORNERS OF THE LOT TO DRAW A LINE



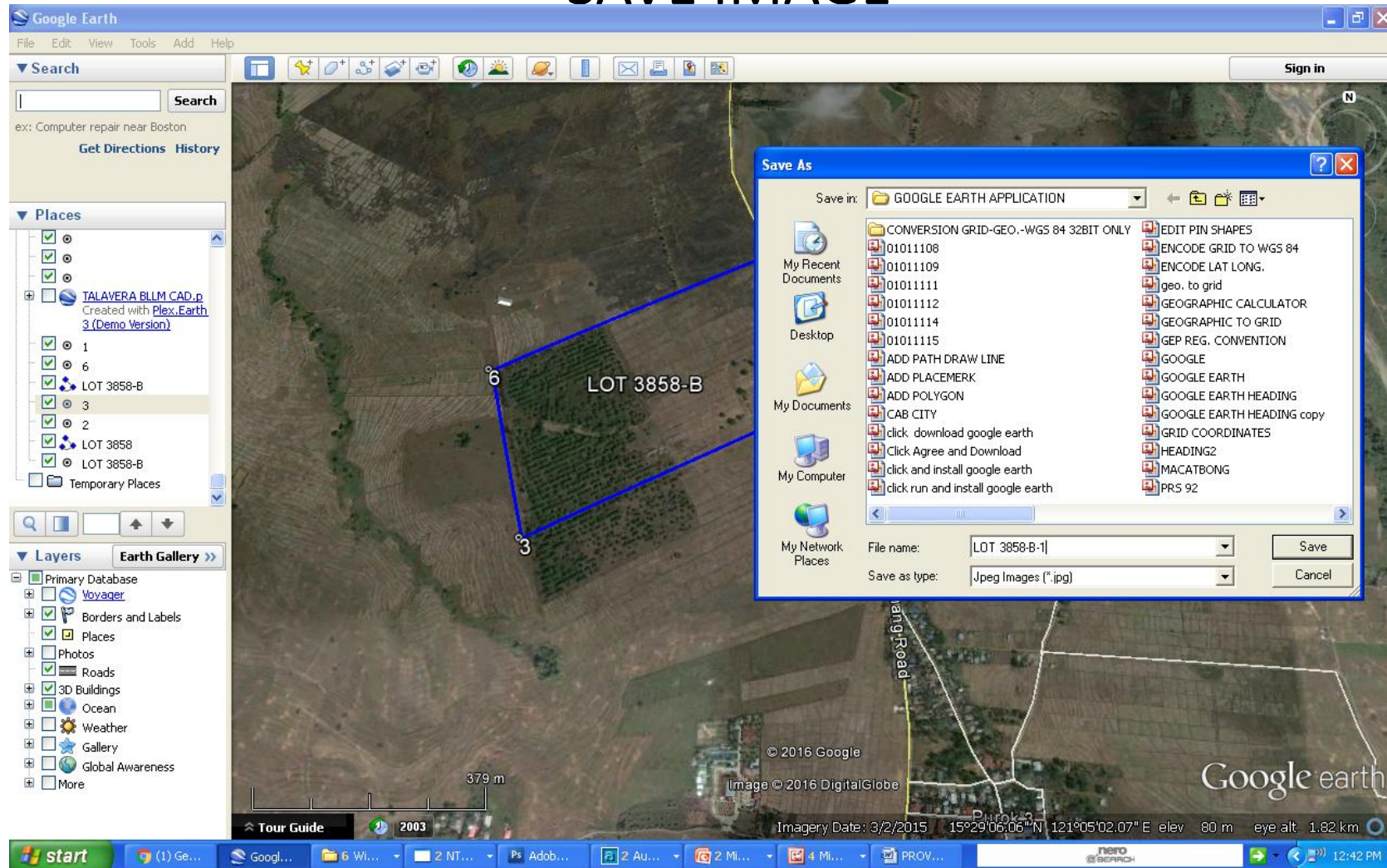
# SHOW RULER



SHOW RULER MEASURE THE DISTANCES OF TWO POINTS  
PICK THE TWO END POINT OF THE CORNERS



# SAVE IMAGE



SAVE IMAGE ENCODE FILE NAME TO SAVE IMAGE AND CLICK SAVE



THANK YOU!!!!

[gepnechapter.blogspot.com](http://gepnechapter.blogspot.com)