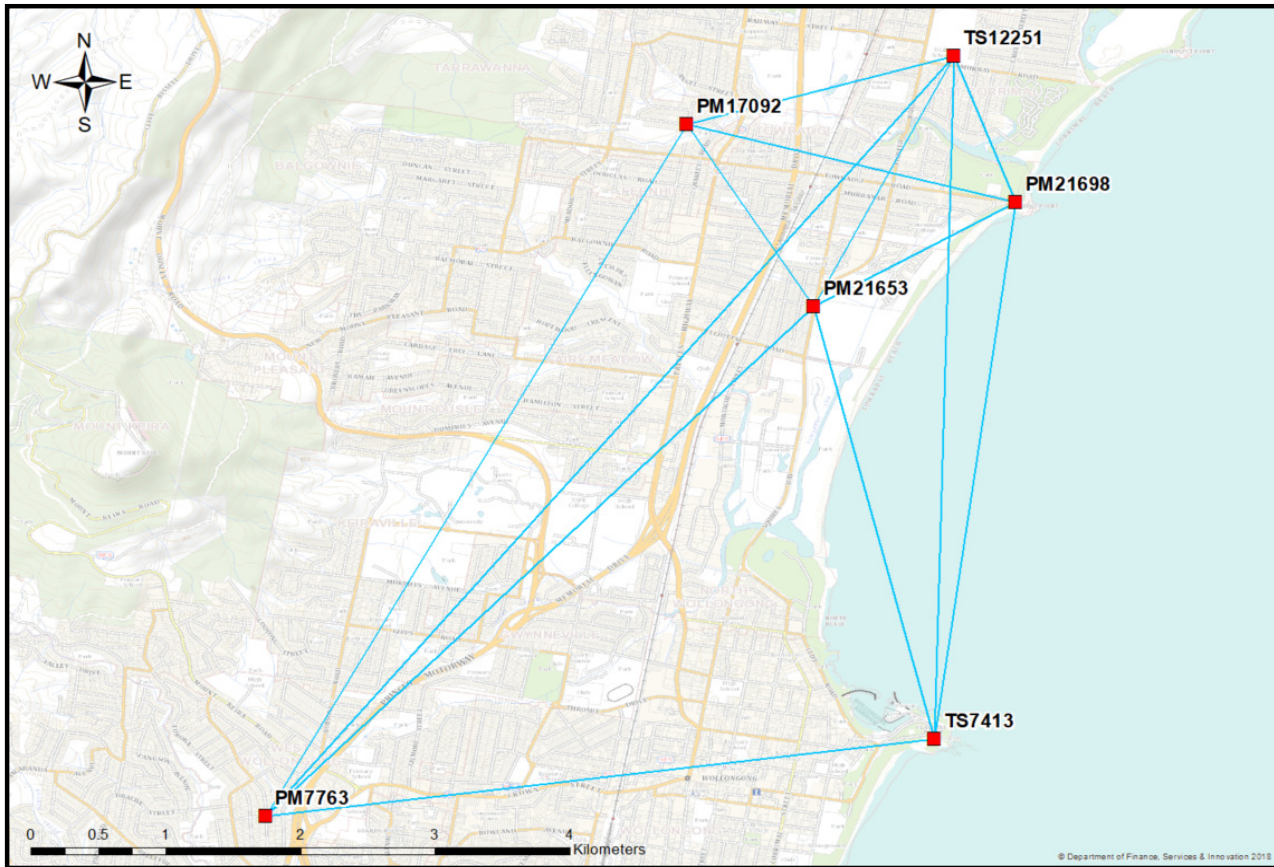


Wollongong



Station	MGA94 - Zone 56		Height		
	Easting (m)	Northing (m)	Ellipsoid (m)	Geoid (m)	Derived AHD (m)
PM17092	306279.997	6193661.322	37.712	21.175	16.537
PM21653	307086.850	6192304.249	24.577	21.084	3.493
PM21698	308308.877	6193117.617	26.493	21.065	5.428
PM7763	303803.110	6188382.670	58.335	21.063	37.272
TS12251 (East Corrimal CORS)	307906.542	6194216.637	42.755	21.126	21.629
TS7413	307895.457	6189049.510	42.035	20.922	21.113

Warning!

- These coordinates are to be used for GNSS validation only, the values differ from those published in SCIMS.
- Please report any mark disturbance or significant differences in results.

NSW GNSS TEST NETWORK:

Wollongong

Network Information

The Wollongong GNSS Test Network has been derived through a Minimally Constrained adjustment. The only constrained (fixed) station is TS12251 East Corrimal CORS.

Coordinates (Northing, Easting and Ellipsoid Height) have been sourced from GDA2020 Regulation 13 Certificate and transformed to GDA94 using conformal transformation.

GDA94

SCIMS ID & (Name)	Latitude	Longitude	Ellipsoid Height (m)
TS12251 (East Corrimal CORS)	S 34° 22' 32.23888"	E 150° 54' 38.95165"	42.755

MGA94

SCIMS ID & (Name)	Easting (m)	Northing (m)	Ellipsoid Height (m)
TS12251 (East Corrimal CORS)	307906.542	6194216.637	42.755

Adjustment Observation Weightings

Horizontal 5mm +0.7ppm 0.0015/0.0015 Centring

Vertical 15mm +2.0ppm 0.002/0.002 Up

Geoid / Ellipsoid Separation (N)

Source: **AUSGEOID09**

MGA94 (2010) Coordinates

Refer to front cover.

Notes

For an accurate comparison, observe the network shown and run the same minimally constrained as above holding fixed TS12251 East Corrimal CORS coordinates (provided above).

Applicable adjustment constraints and observational weightings have also been provided.

AHD has been derived using the AUSGEOID09 model.

Contact a representative from Spatial Services if further information/clarification is required.

PM17092

Photos:



Sketch:

Survey Coordination Act, 1917.

PM No. 17092.
SSM No.
S.C.

LOCALITY SKETCH PLAN

(To be drawn in black waterproof ink, or HB pencil, not necessarily to scale.)

Parish Woolton County Camden City or Town Corrimal
Municipality or Shire Wollongong Survey Area Corrimal
Zone..... Map Sheet 64 1252 Aerial Photograph N.S.W.

NOTE - Measurements are to be shown from the mark to as many nearby survey marks, buildings, fence posts, kerbs, etc., as practicable. Up to six measurements are desirable.
Measurements are in METERS

Mark last inspected

Placed in connection with (type of survey or work)

Co-ordinate values of mark

Projection, Origin

Reduced level of mark, feet (approx.), to Datum, Standard

Inspection Book No. 739 Fol. 25

Site selected by D.J. TRAVES Date 17.7.73

Mark placed by J. CALVERT Date 17.7.73

Locality sketch drawn by D.J. TRAVES Date 13.9.73

Locality sketch put into use by A. GIBBS Date 13.9.73

PM No. 17092
SSM No.

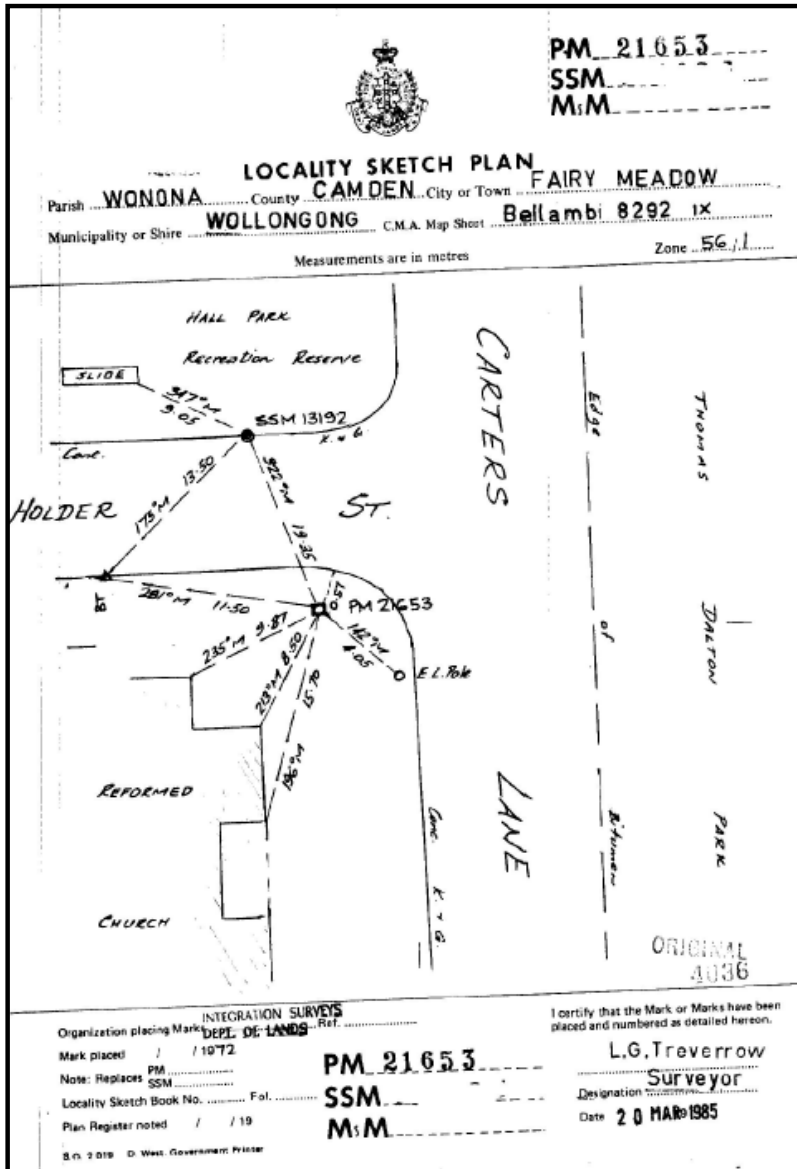
PROVISIONAL SKETCH ONLY
A. GIBBS
Office-in-Charge
Survey Co-ordination Branch
18/7/73

PM21653

Photos:



Sketch:



PM21698

Photos:



Sketch:

Survey Co-ordination Act, 1949.

PM No. 21698
SSM No. _____
S.C. _____

LOCALITY SKETCH PLAN

(To be drawn in black waterproof ink, or HB pencil, not necessarily to scale.)

Parish Wonona County Camden City or Town Towradgi
Municipality or Shire Wollongong Survey Area Towradgi
Zone _____ Map Sheet 9192 Aerial Photograph N.S.W. _____

NOTE - Measurements are to be shown from the mark to as many nearby survey marks, buildings, fence posts, kerbs, etc., as practicable. Up to six measurements are desirable.

Measurements are in METRES

Mark last inspected _____
Placed in connection with (type of survey or work) _____
Co-ordinate values of mark _____
Projection _____ Origin _____
Reduced level of mark _____ feet (approx.) to Datum Standard
Inspection Book No. 1334 Fol. 1
Site selected by L.G. Treverrow
Mark placed by L.G. Treverrow Date _____
Locality sketch drawn by L.G. Treverrow Date 4 AUG 1976
Locality sketch put into use by _____ Date _____

PM No. 21698
SSM No. _____

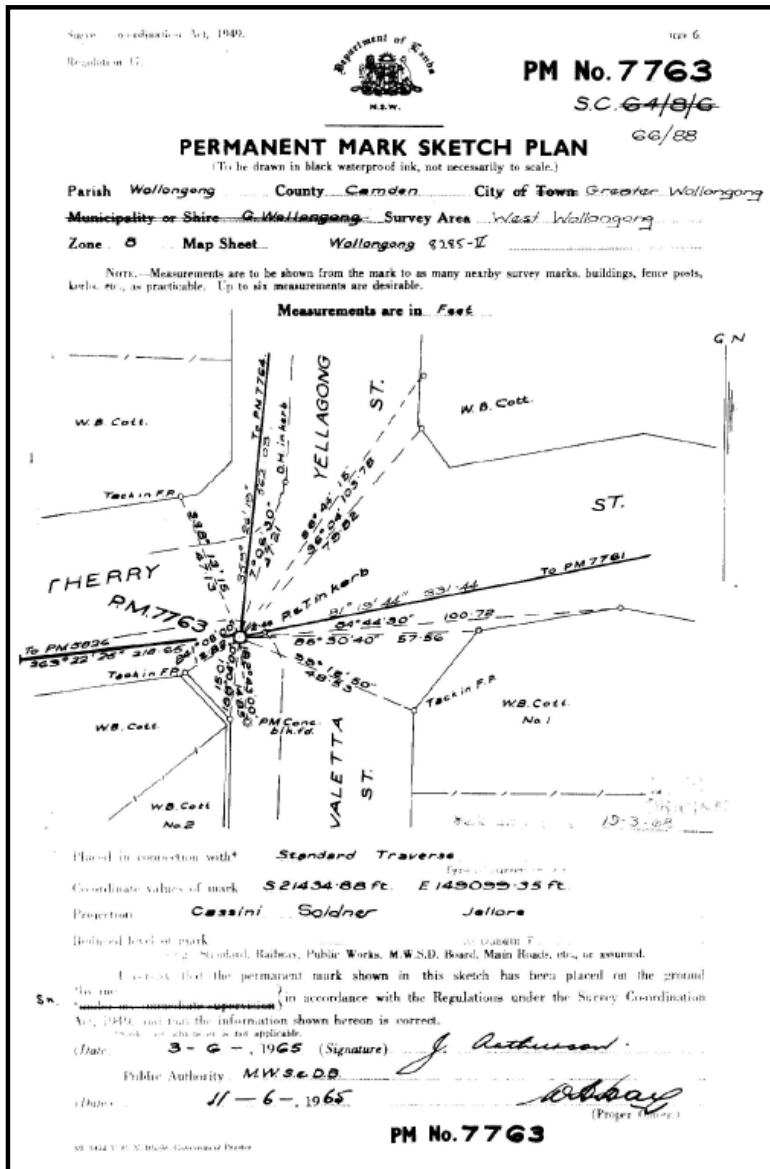
PROVISIONAL SKETCH ONLY
Officer-in-Charge
Survey Co-ordination Branch

PM7763

Photos:



Sketch:



TS7413

Photos:



Sketch:

LOCALITY SKETCH PLAN


Local Government Area: Wollongong

Town/Suburb/Locality: Wollongong

Approx MGA Coordinate: Zone 56

E: 367 895

N: 6189 049



TS7413

Description of Mark: Steel Pillar TS7413
GI Pipe
GBM 282 + 281 + Copper Rod

The sketch plan shows a central point (the mark) with several lines radiating from it. Bearings and distances are noted: 116° 23' 31.8" (23.3), 298° 17.0' (17.0), 327° 17.5' (17.5), 272° 7.4' (7.4), 118° 14.6' (14.6), 76° 5.8' (5.8), 345° 6.8' (6.8), and 358° 29.0' (29.0). Features include a 'Monument' (circle), 'Steel fence', 'Car Park' (wavy line), 'Copper rod SCB Cover Box', 'GBM 282 Cover Box Deep Driven Rod', and 'Gal Pipe in Conc SCB Cover Box'. A 'Lighthouse' is also indicated.

Please use black ink only

SURVEYING REGULATION			
MARK	AHD	SOURCE	DATE
HEIGHT DETERMINED BY (Specify)		- DIFF. LEVELLING - TRIG HEIGHTING	
ADOPTED MARKS		- GPS	

Measurements are in metres

TS 7413
 GBM 282 + 281

PM _____
 Replaces _____
 SS _____

I certify the mark has been placed/ found and numbered as detailed herein.
 Signed: _____
 Name: D. Sluys
 Organisation placing mark: _____
 Date mark placed/ found: 27/11/2016
 Ref: _____