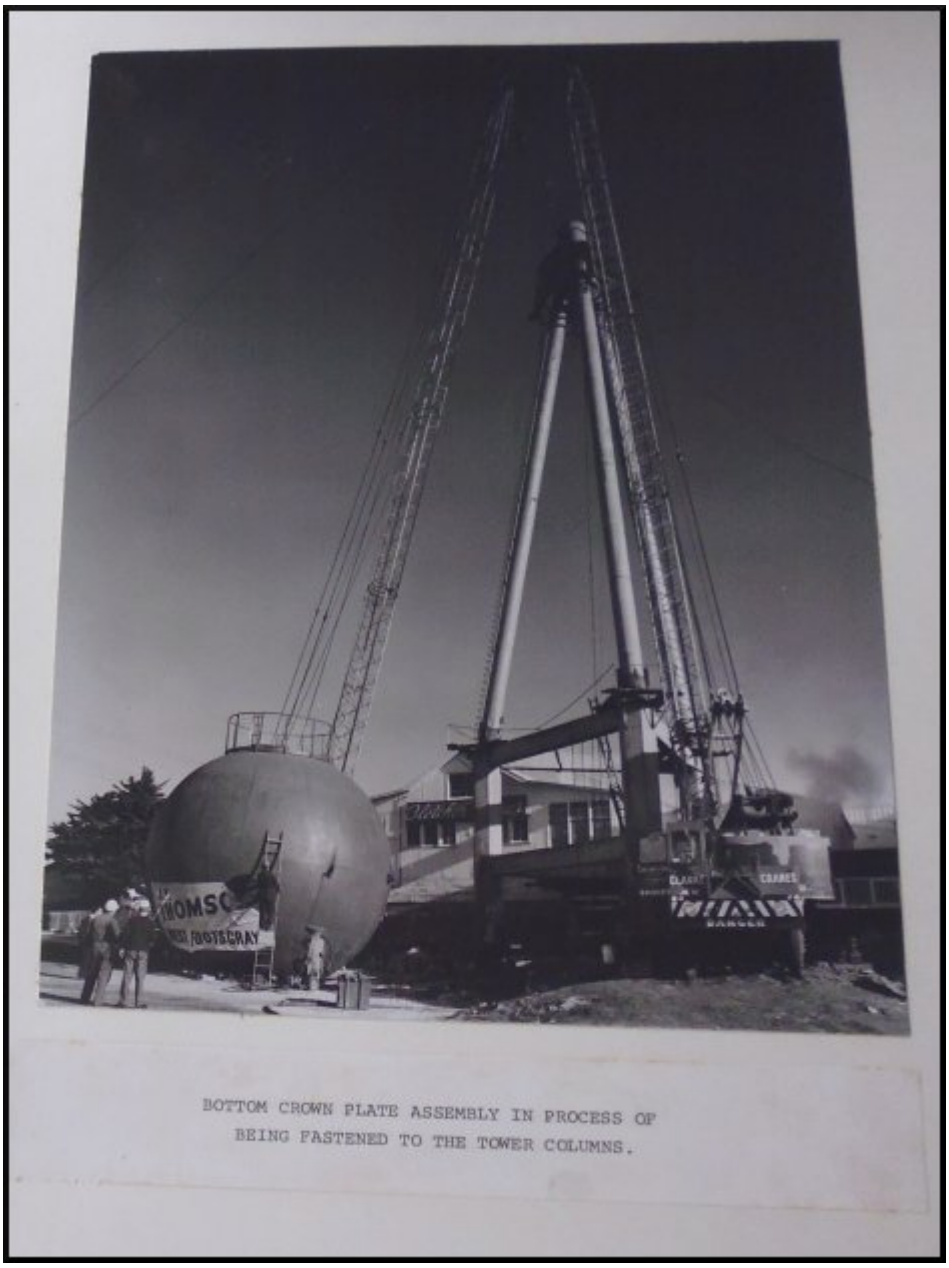
Rare images of FJ silver ball

Description

[box]Bluestone Magazine **would like to thank Melinda Barrie from Melbourne University Archives for providing us with some examples of the images contained in a collection of items donated to MUA by Ralph Jones (Ralph Jones Construction Engineering Services) who engineered and constructed the unique water tower for the Fletcher Jones factory in Warrnambool, 1965-67.** Citation: Ralph Jones Water Tower Submission and Business Papers , 2014.0112, Box 1, University of Melbourne Archives.**[/box]**

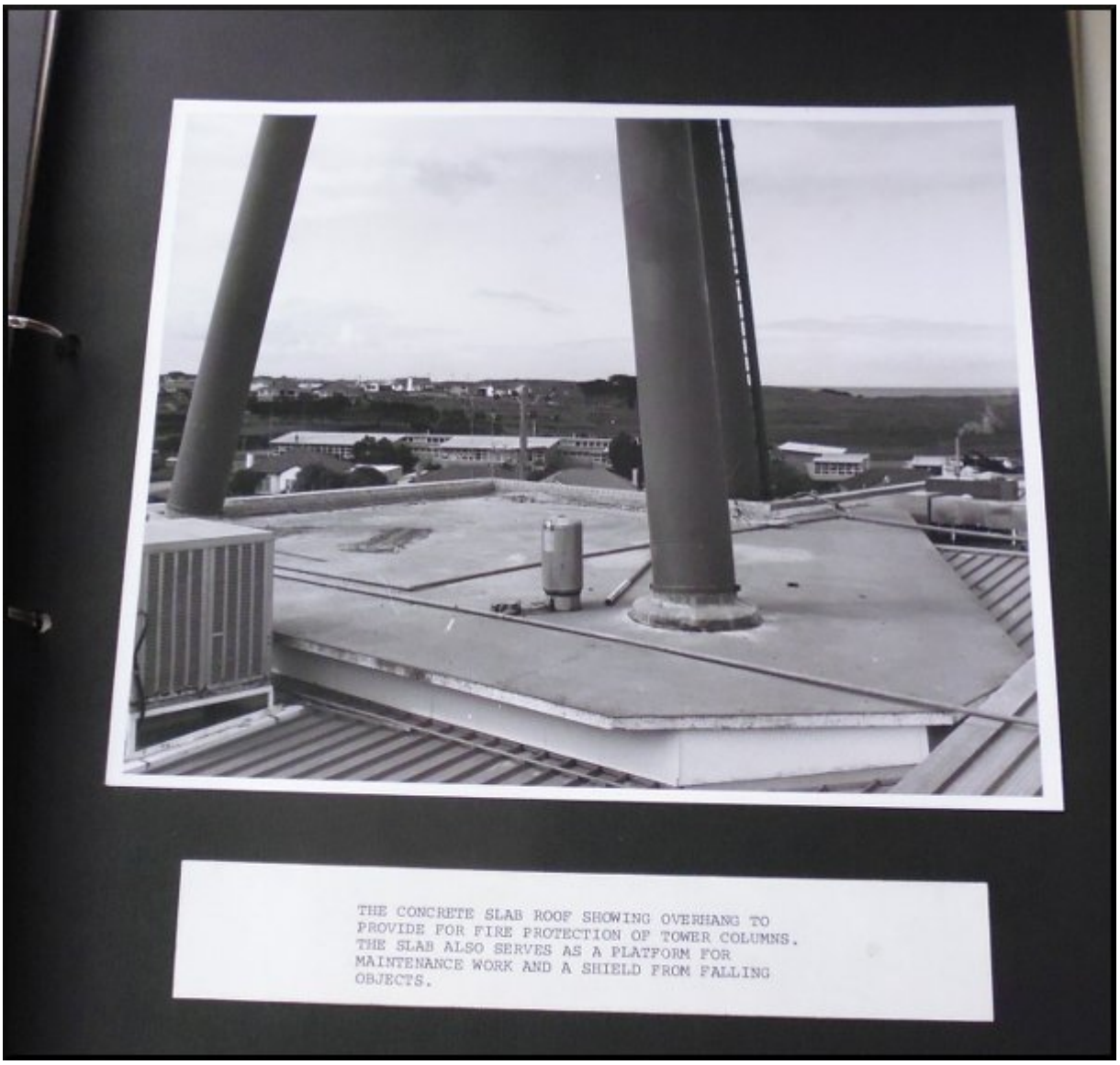
THE SPHERICAL TANK IMMEDIATELY BEFORE ERECTION. THE BOTTOM CROWN PLATE IS IN THE FOREGROUND, COMPLETE WITH PART OF THE INNER TANK AND ATTACHED EXTENSIONS OF THE TOWER COLUMNS.



BOTTOM CROWN PLATE ASSEMBLY IN PROCESS OF
BEING FASTENED TO THE TOWER COLUMNS.

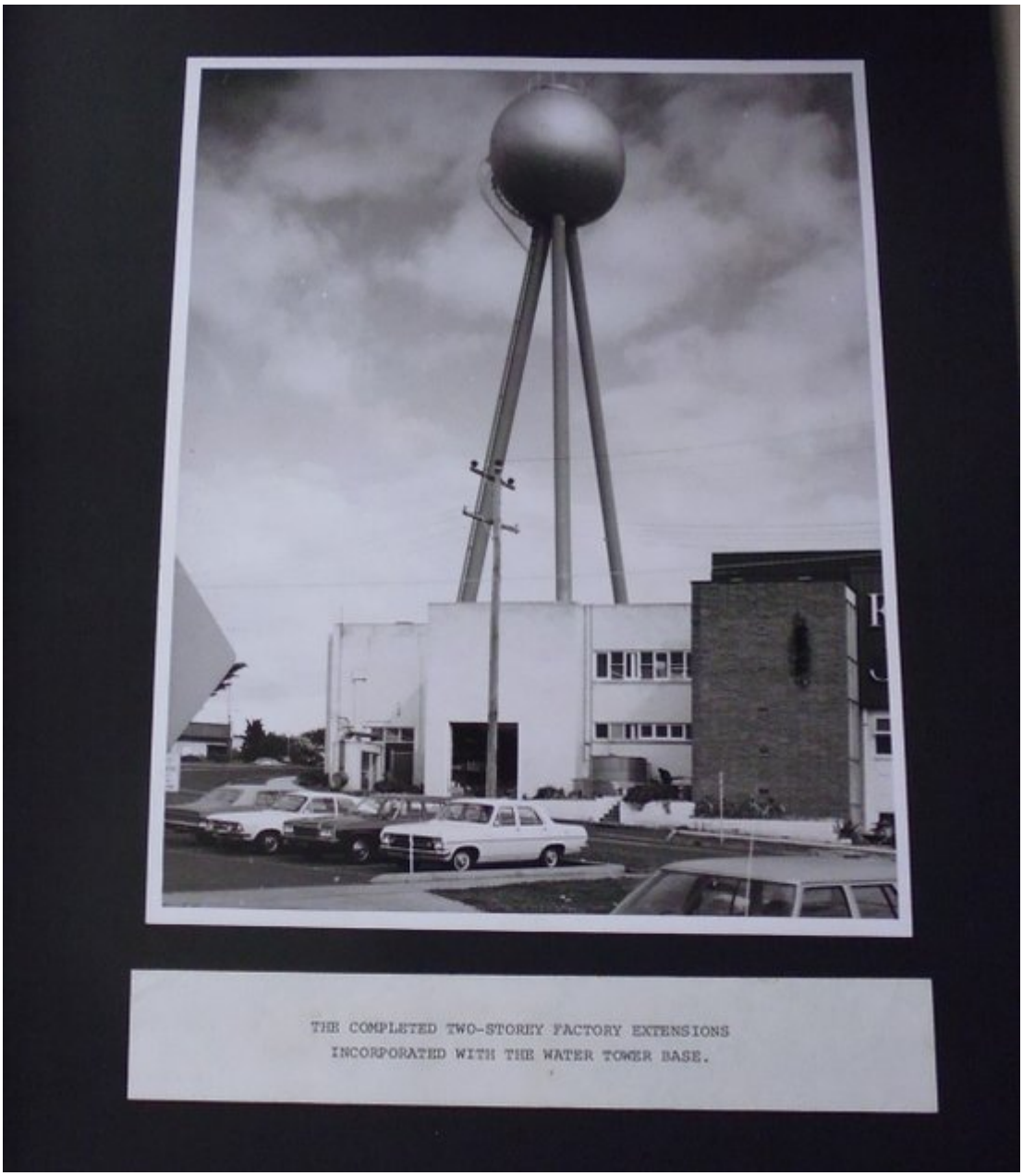
FINAL POSITIONING OF THE SPHERICAL TANK
DURING THE ERECTION PROCESS.

SPHERICAL TANK IN PROCESS OF BEING LIFTED ON
TO THE BOTTOM CROWN PLATE ASSEMBLY.

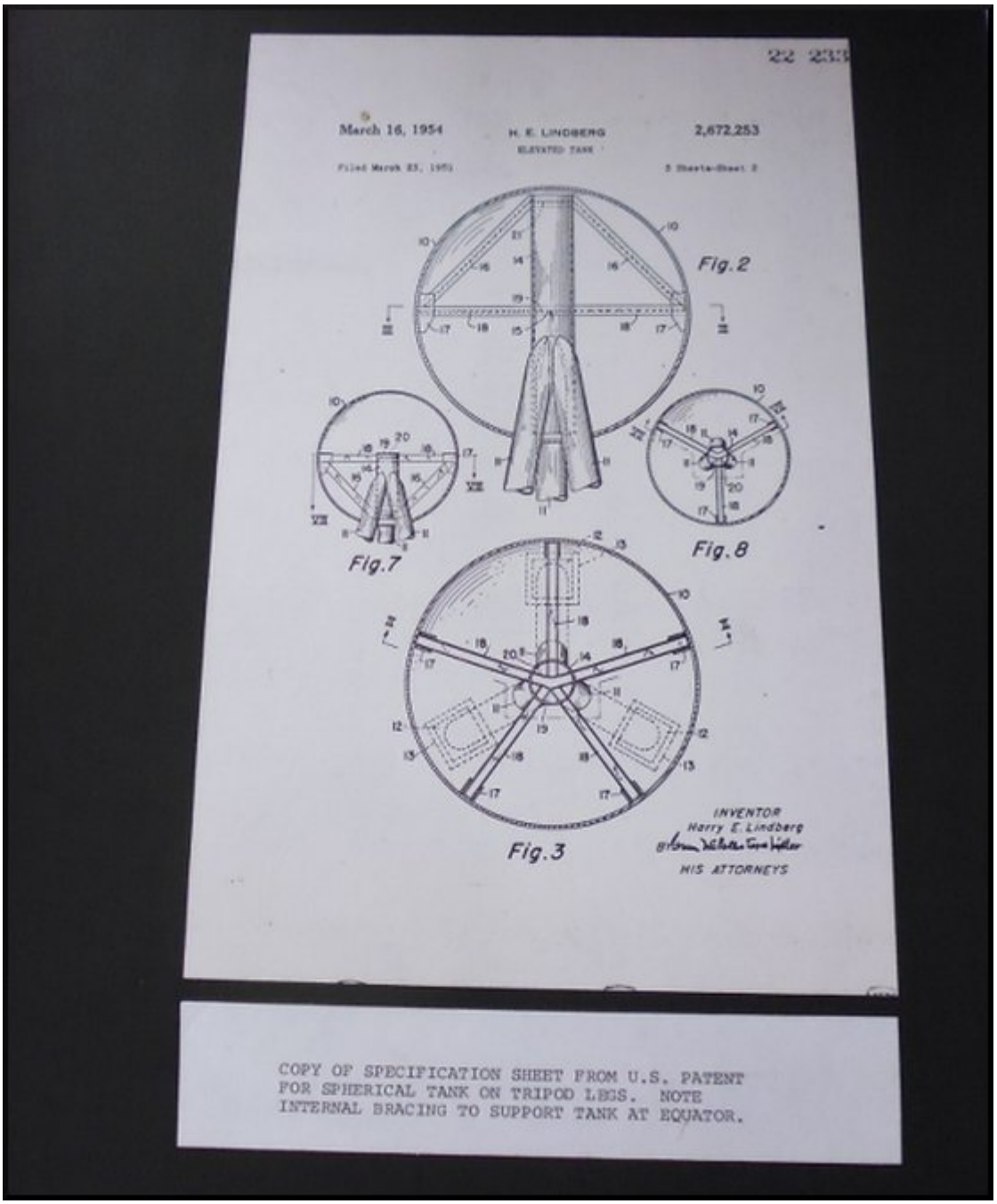


THE CONCRETE SLAB ROOF SHOWING OVERHANG TO PROVIDE FOR FIRE PROTECTION OF TOWER COLUMNS. THE SLAB ALSO SERVES AS A PLATFORM FOR MAINTENANCE WORK AND A SHIELD FROM FALLING OBJECTS.

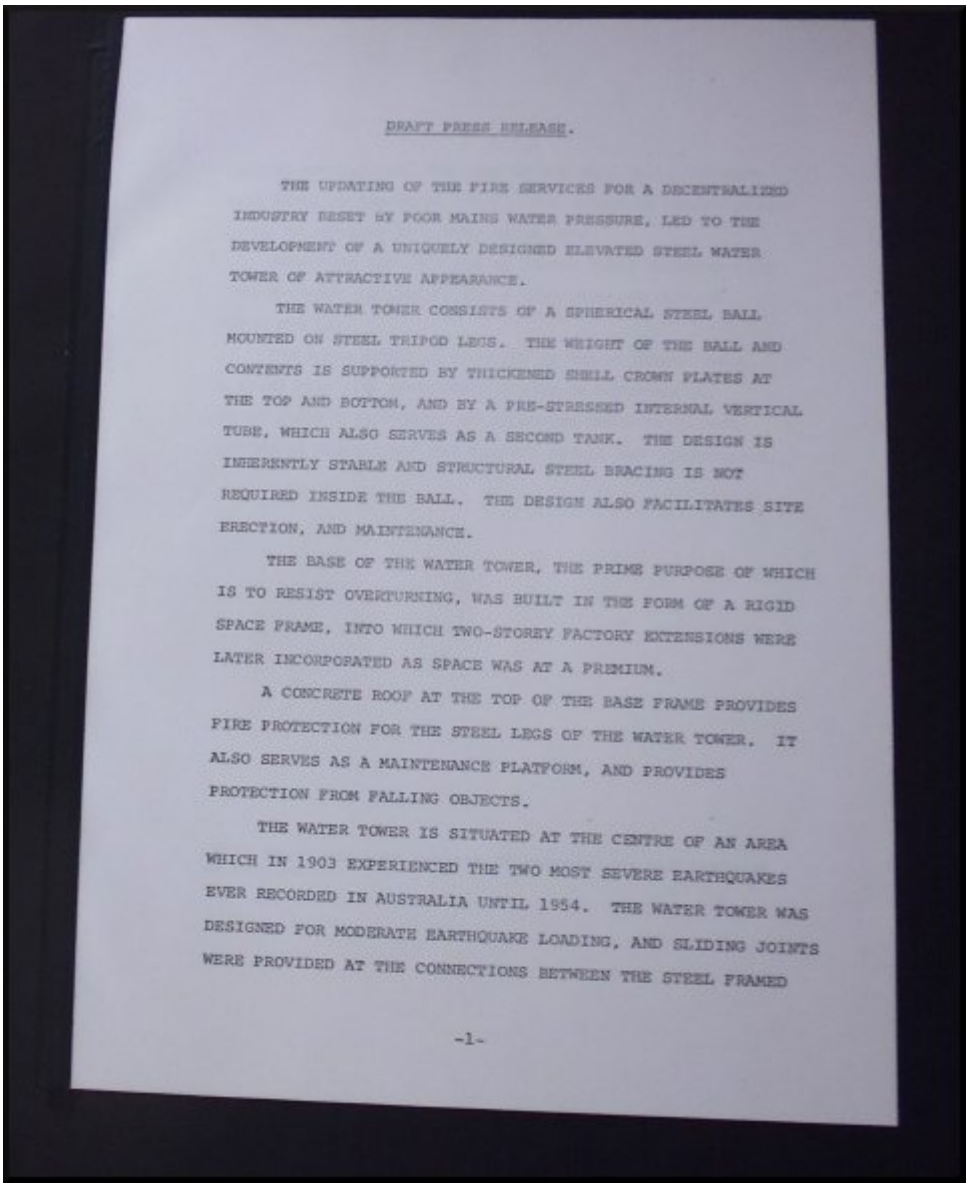
THE ELEVATED WATER TOWER SHOWING SAF-T-CLIMB RAILS AND LADDER CAGE.



THE COMPLETED TWO-STOREY FACTORY EXTENSIONS
INCORPORATED WITH THE WATER TOWER BASE.



COPY OF SPECIFICATION SHEET FROM U.S. PATENT FOR SPHERICAL TANK ON TRIPOD LEGS. NOTE INTERNAL BRACING TO SUPPORT TANK AT EQUATOR.



DRAFT PRESS RELEASE.

THE UPDATING OF THE FIRE SERVICES FOR A DECENTRALIZED INDUSTRY BESET BY POOR MAINS WATER PRESSURE, LED TO THE DEVELOPMENT OF A UNIQUELY DESIGNED ELEVATED STEEL WATER TOWER OF ATTRACTIVE APPEARANCE.

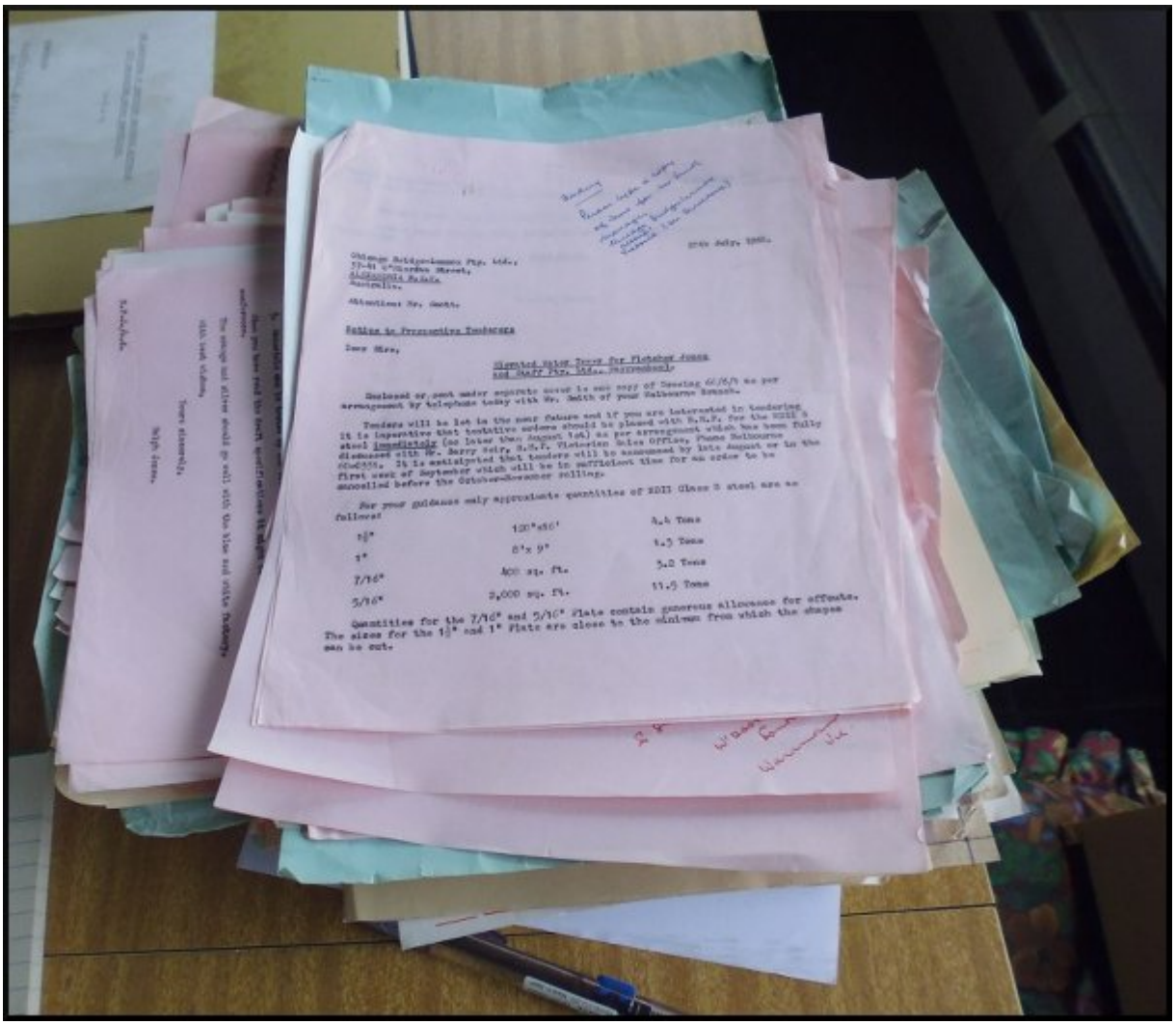
THE WATER TOWER CONSISTS OF A SPHERICAL STEEL BALL MOUNTED ON STEEL TRIPOD LEGS. THE WEIGHT OF THE BALL AND CONTENTS IS SUPPORTED BY THICKENED SHELL CROWN PLATES AT THE TOP AND BOTTOM, AND BY A PRE-STRESSED INTERNAL VERTICAL TUBE, WHICH ALSO SERVES AS A SECOND TANK. THE DESIGN IS INHERENTLY STABLE AND STRUCTURAL STEEL BRACING IS NOT REQUIRED INSIDE THE BALL. THE DESIGN ALSO FACILITATES SITE ERECTION, AND MAINTENANCE.

THE BASE OF THE WATER TOWER, THE PRIME PURPOSE OF WHICH IS TO RESIST OVERTURNING, WAS BUILT IN THE FORM OF A RIGID SPACE FRAME, INTO WHICH TWO-STOREY FACTORY EXTENSIONS WERE LATER INCORPORATED AS SPACE WAS AT A PREMIUM.

A CONCRETE ROOF AT THE TOP OF THE BASE FRAME PROVIDES FIRE PROTECTION FOR THE STEEL LEGS OF THE WATER TOWER. IT ALSO SERVES AS A MAINTENANCE PLATFORM, AND PROVIDES PROTECTION FROM FALLING OBJECTS.

THE WATER TOWER IS SITUATED AT THE CENTRE OF AN AREA WHICH IN 1903 EXPERIENCED THE TWO MOST SEVERE EARTHQUAKES EVER RECORDED IN AUSTRALIA UNTIL 1954. THE WATER TOWER WAS DESIGNED FOR MODERATE EARTHQUAKE LOADING, AND SLIDING JOINTS WERE PROVIDED AT THE CONNECTIONS BETWEEN THE STEEL FRAMED

-1-



Building
Please take a copy
of these for our files
Arrange Quotations
Arrange Quotations
Contact Ian Greenwood

9th July, 1965.

Oldmeadow Bridgeclosure Pty. Ltd.,
77-81 O'Riordan Street,
ALEXANDRIA NSW.

Attention: Mr. Scott.

Rolling to Protective Tenderers

Dear Sirs,

Structural Steel Items for Fletcher Jones
and Staff Pty. Ltd., Derrimbong.

Enclosed or sent under separate cover is one copy of Drawing 66/6/1 as per arrangement by telephone today with Mr. Smith of your Melbourne branch.

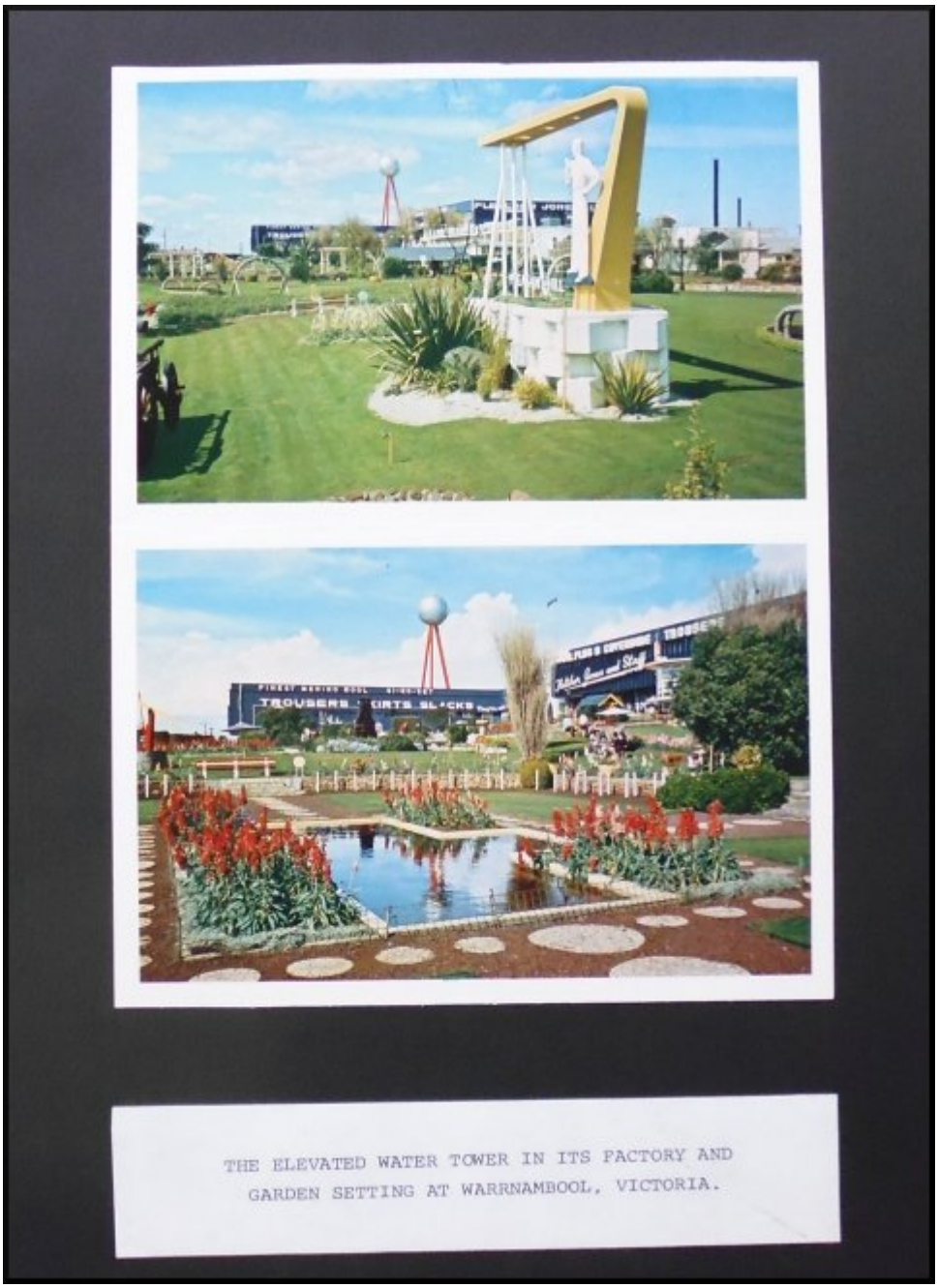
Tenders will be let in the near future and if you are interested in tendering it is imperative that tentative orders should be placed with B.H.P. for the MIXI & steel immediately (no later than August 1st) as per arrangement which has been fully discussed with Mr. Barry Selby, B.H.P. Fletcher Sales Office, Phone Melbourne 60-0555. It is anticipated that tenders will be announced by late August or in the first week of September which will be in sufficient time for an order to be cancelled before the October-November rolling.

For your guidance only approximate quantities of XXII Class 3 steel are as follows:

1½"	120'x60'	4.4 Tons
1"	8'x 9'	1.5 Tons
7/16"	400 sq. ft.	3.2 Tons
5/16"	2,000 sq. ft.	11.5 Tons

Quantities for the 7/16" and 5/16" Plate contain generous allowance for offcuts. The sizes for the 1½" and 1" Plate are close to the minimum from which the shapes can be cut.

2 P
Weld Bar
Welding Up



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2015/02/01
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