

From: Oct 83

1987.328.244

To: July 1986 .758

FILE WORK SHEET

SUBJECT Beaumont Rocks Lighthouse.
Contract 2500 / 2500 A

BRING UP		REMARKS	BRING UP		REMARKS
DATE	FOR		DATE	FOR	
CLOSED					

E758

CONTRACT NO. 2500A
BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

PAYMENT NO. 5 FINAL

	<u>CONTRACT AMOUNT</u>	<u>AMOUNT PAID</u>
Establishment	25,000-00	25,000-00
Disconnect House	5,800-00	5,800-00
Demolish Tower	11,400-00	11,400-00
Construct Tower	63,700-00	63,700-00
Foundations	75,000-00	75,000-00
Replace Lighthouse	10,000-00	10,000-00
Contingency Sum	30,000-00	-
Original Contract Value	220,900-00	190,900-00
V.O. 1 Extra depth on footings		2,175-00
V.O. 2 Misc. items on Tower		287-50
V.O. 3 Misc. Credits		(2,760-71)
TOTAL VALUE OF WORK DONE		<u>\$190,601-79</u>
LESS Previous Payments	151,982-22	
Readimix account	10,282-78	
Liquidated Damages	1,000-00	\$163,265-00
		<u>\$ 27,336-79</u>

COMPILED BY A. H. H. H. H.

CHECKED BY R. E. P. a. l. o.

blee
7/7/86

AUCKLAND HARBOUR BOARD

THE AUCKLAND HARBOUR BOARD
P.O. BOX 1259


DATE: 2 JULY 1986

Dr. to

Engineers' Department

(Name of Claimant) Precast Construction Ltd
PO Box 58107, East Tamaki

For the undermentioned:

Order No. Date Supplied	PARTICULARS IN FULL	Signature (A.H.B.)	Rate		TOTAL
	<p><u>Bean Rocks Lighthouse Reconstruction</u></p> <p>5th and Final Payment on account of Contract No. 2500A for the above in accordance with Engineers' Cert. No. 5, dated 2/7/86, attached.</p>				27,336 79

DUPLICATE

Signature of Claimant

Address

NET TOTAL \$ 27,336 79

CREDITORS CODING FORM

Creditors No. { } Inv. No. { } Inv. Date { } A/C Period { }

Order Ref.	Cost Code/ Job Number	Amount \$\$\$\$\$.cc	Narration (REMARKS INSERTED IN THIS COLUMN WILL APPEAR ON COMPUTER REPORT DATA)	Req'n No.	Order Line Partial/Cplete
C2500A	J 7322 (CC 659)	\$27,336.79			C

DUPLICATE

Cheque countersigned

I CERTIFY, that to the best of my belief and knowledge the foregoing account is true and correct in every particular

Cheque No.

CHIEF ENGINEER TO THE BOARD



To: _____ Date: 2/7/86

From: _____

Progress Payment Certificate No. 5 (Final)

Contract No. 2500A For Bean Rocks Lighthouse Reconstruction

I hereby certify that the sum of Twenty seven thousand three hundred and thirty six dollars and seventy nine cents only
(\$27,336.79) is due to Messrs Precast Construction Ltd
on account of work completed to 27/5/86

Value of work completed (including variations)		\$ 190,601.79
Less Retention	\$
Less Previous Payments	<u>151,982.22</u>	\$
Less Liens Act Retention	\$
Less Liquidated Damages	<u>1,000.00</u>	\$
Less Readymix Account	<u>10,282.78</u>	\$
		<u>163,265.00</u>
Amount now certified		\$ 27,336.79

DUPLICATE

Chief Engineer to the Board



E 758 /

Memorandum

To: THE CHIEF ENGINEER

Date: 1 July 1986

From: THE CONSTRUCTION ENGINEER

re : CONTRACT 2500A - BEAN ROCKS LIGHTHOUSE
RECONSTRUCTION

I hereby certify that the maintenance work accrued up to the maintenance period ending 22 February 1986 was completed to my satisfaction on 27 May 1986.

A handwritten signature in blue ink, appearing to read "D.L. Goord".

D.L. Goord
CONSTRUCTION ENGINEER

DLG:REW

Mr Can Cert please. fbc



Auckland Harbour Board
1 Queen Street, Auckland, New Zealand
P.O. Box 1259, Auckland
Telephone 795-950. Telex: N Z 2705
Telegrams: Haboard, Auckland

Reference

2 July 1986

Messrs Precast Construction Ltd
P.O. Box 58-107
EAST TAMAKI

Dear Sirs

CONTRACT 2500A : BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

Please find enclosed herewith copy of the Maintenance Certificate related to the above contract.

Yours faithfully

B.R. Le Clerc
CHIEF ENGINEER TO THE BOARD

RNC:pac

CONTRACT NO. 2500A
BEAN ROCKS LIGHTHOUSE RECONSTRUCTION
MAINTENANCE CERTIFICATE

I hereby certify that the maintenance work accrued
up to the maintenance period ending 22 February 1986
was completed to my satisfaction on 27 May 1986.

B.R. Le Clerc
CHIEF ENGINEER TO THE BOARD

Secretary - for your records
Precast Construction Ltd
Construction Engineer

To: GENERAL MANAGER

Date: 19 JUNE 1986

From: CHIEF ENGINEER



BEAN ROCKS LIGHTHOUSE MODEL

Now that the model has been completed and put on display in the lobby of Level 5, it has been favourably commented upon.

It has been sought for display in Shed 21 for Japan Week.

Because it is built mostly of balsa and is not protected, there is a possibility of damage. Dust has begun to collect on the model and, as it is fragile and intricate it is hard to clean without damage.

A clear plastic hood could be provided at a cost of \$160.00 to protect the model and prevent dust accumulation.

The attraction of the model is partly due to the working light installed which mimics the actual light in colours, phase and segments. Batteries, value \$90.00, are presently used from the Electrical Section's test facility, which are rechargeable. It would be more appropriate to provide a mains connection and a small transformer to provide 12 volts.

A suitable "plug pack" costs \$54.94.

With your concurrence, I propose to obtain the hood and plug pack.



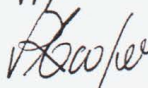
✓ → B.R. Le Clerc
CHIEF ENGINEER TO THE BOARD

JW: pac

cc: Electrical Engineer



Approved.



ROBERT COOPER
GENERAL MANAGER

24 June '86

Code 929-586
Isob Request to



F 758

Memorandum

To: GENERAL MANAGER

Date: 19 JUNE 1986

From: CHIEF ENGINEER

BEAN ROCKS LIGHTHOUSE MODEL

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A suitable "plug pack" costs \$54.94.

With your concurrence, I propose to obtain the hood and plug pack.

B.R. Le Clerc
CHIEF ENGINEER TO THE BOARD

JW:pac

cc: Electrical Engineer

E. 758

CONTRACT NO. 2500 A

BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

RECONCILIATION

<u>ITEM</u>	<u>CONTRACT</u>	<u>ACTUAL</u>	<u>PLUS</u>	<u>MINUS</u>
1	25,000-00	25,000-00	-	-
2	-	-	-	-
3	5,800-00	5,800-00	-	-
4	11,400-00	11,400-00	-	-
5	63,700-00	63,700-00)		
5 V.O. 3.3	-	- 2,000-00)	-	2,000-00
7	75,000-00	75,000-00)		
7 V.O. 1		2,175-00)	2,175-00	-
8	10,000-00	10,000-00	-	-
9	30,000-00)		
9 V.O. 2		287-50)	-	29,712-50
<hr/>				
	\$220,900-00	191,362-50	2,175-00	31,712-50
<u>EXTRAS</u>				
V.O. 3.1)				
V.O. 3.2)	-	- 760-71	-	760-71
Liquidated Damages				
4 weeks @ \$250/week	-	- 1,000-00	-	1,000-00
<hr/>				
	\$220,900-00	189,601-79	2,175-00	33,473-21

COMPILED BY M. H. Hines

CHECKED BY P. C. Pala

Blac
 Mr. Lenthall *[Signature]*
 11/30/50

E.758



**Auckland
Harbour Board**

Reference Yr Ref 54/1/851

Auckland Harbour Board
Princes Wharf Quay St.,
Auckland, New Zealand
P.O. Box 1259, Auckland
Telephone 795-950, Telex: NZ 2705
Telegrams: Habord, Auckland

12 February 1986

Ministry of Transport
Private Bag
AUCKLAND 1

Dear Sir

BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

... Please find enclosed completion certificate related to the above works.

Yours faithfully

B R Le Clerc
CHIEF ENGINEER TO THE BOARD

Encl. Completion Certificate

CERTIFICATE OF COMPLETION

I, B R Le Clerc

(name)

of .. Auckland Harbour Board, PO Box 1259, Auckland

(company, organisation and address)

hereby certify that the work approved on plan MD (N) 1204

being Lighthouse Reconstruction - Bean Rocks

(type of work)

has been completed in accordance with that plan and the stated intentions of the application.

(Signed)

(Position) Chief Engineer

(M.O.T. Reference .. 54/1/851

16/9



MINISTRY of TRANSPORT

PRIVATE BAG, AUCKLAND 1
TELEPHONE: 773 400

To: *CE* Date: *10.2.86*
From: *Records*

PLEASE ACKNOWLEDGE
PLEASE REPLY DIRECT SUBMITTING COPY TO HEAD OFFICE
PLEASE REPORT
FOR YOUR INFORMATION AND RETURN PLEASE
FOR NECESSARY ACTION PLEASE

851

Harbours & Foreshores
Section

5 February 1986



Mr Can
Please get the completion certificate which would have come with the original of this letter

RUCTION : BEAN ROCK

1985 advising approval pursuant to Section for the above structure.

J4038/6

PP

GENERAL MANAGER
~~OFFICE MANAGER~~
OFFICE & SECRETARY
~~OPERATIONS MANAGER~~

structure has been completed. If it has, completed Completion Certificate to this

If it is not completed could you please advise when it is proposed that this structure will be completed.

Yours faithfully

V. Lyall
V. Lyall
for Regional Secretary for Transport



M16/05B6/0547m

MOT 19

12

CE5

R

16/9

MINISTRY of TRANSPORT



CUSTOM HOUSE
QUAY STREET
AUCKLAND
NEW ZEALAND

PRIVATE BAG, AUCKLAND 1
TELEPHONE: 773 400

WHEN REPLYING
PLEASE QUOTE

Our Ref: 54/1/851

Harbours & Foreshores
Section

5 February 1986



The Secretary
Auckland Harbour Board
P.O. Box 1259
AUCKLAND

Dear Sir

COMPLETION : LIGHTHOUSE RECONSTRUCTION : BEAN ROCK

Further to our letter of 5 July 1985 advising approval pursuant to Section 178(b) of the Harbours Act 1950 for the above structure.

Could you please advise if this structure has been completed. If it has, could you please forward the completed Completion Certificate to this office.

If it is not completed could you please advise when it is proposed that this structure will be completed.

Yours faithfully

V. Lyall
V. Lyall
for Regional Secretary for Transport



M16/0586/0547m

MOT 19

CF5

12

R

CERTIFICATE OF COMPLETION

I,..... B R Le Clerc.....

(name)

of ..Auckland Harbour Board, PO Box 1259, Auckland.....

(company, organisation and address)

hereby certify that the work approved on plan MD (N) 1204.....

beingLighthouse Reconstruction - Bean Rocks.....

(type of work)

has been completed in accordance with that plan and the stated intentions of the application.

(Signed) .....

(Position) .Chief Engineer.....

(M.O.T. Reference ...54/1/851.....)

E.758



**Auckland
Harbour Board**

Auckland Harbour Board
1 Queen Street, Auckland, New Zealand
P.O. Box 1259, Auckland
Telephone 795-950, Telex: N Z 2705
Telegrams: Haboard, Auckland

Reference

27 January 1986

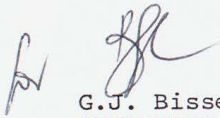
The Manager
Contractors Bonding Ltd
6 Raroa Road
LOWER HUTT

Dear Sir

AUCKLAND HARBOUR BOARD CONTRACT 2500A:
BEAN ROCKS LIGHTHOUSE RECONSTRUCTION:
PRECAST CONSTRUCTION LTD

Substantial completion of work in respect of the above contract has now been advised and the related Performance Bond is released and returned herewith.


Yours faithfully


G.J. Bissell
SECRETARY



cc: Chief Engineer
Treasurer
Contract File

Copy sent to: The Manager
Precast Construction Ltd
60 Taipoa Road
TE ATATU


28/1

To: THE CHIEF ENGINEER

Date: 21 January 1986

From: THE CONSTRUCTION ENGINEER

re: BEAN ROCKS LIGHTHOUSE RECONSTRUCTION - CONTRACT 2500A

Attached are V.O.s 1, 2, 3 and 4 for the above contract for your signature.

V.O. 1 is to cover the extra excavation required for the footings over that allowed for in the contract. The rate of \$150/m³ was submitted by the Contractor prior to acceptance of the contract.

V.O. 2

2.1 is to cover the cost to have s.s. banding placed around a bad split in one of the tower legs.

2.2 is to cover the cost of the use of the Contractor's cherry picker to install electrical equipment in the house after it was installed on the tower in the Buoys and Beacons yard.

2.3 is to cover modifications necessary to the end plates for the stairs to enable them to fit the new deck beams under the balcony.

2.4 is to cover the cost to have paintwork under the house touched up after it was installed on the legs.

V.O. 3

3.1 is a charge on the Contractor for opening the yard on a week-end at his request.

3.2 is a charge on the Contractor for sealing holes in the ridge capping which were cut to install the lifting bolts.

3.3 is an agreed credit for deleting the turnbuckles on the steel rod crossbracing to the tower. These were no longer necessary due to a modified construction detail.

V.O. 4 is an extension of time agreed due to late completion of the house renovations by the A.H.B. The revised completion date is one week after the house was made available to the Contractor to lift onto the towerstructure. One week was considered a reasonable time to allow the contractor to install the house on the legs and return it to its site on Bean Rocks.



D.L. Goord
CONSTRUCTION ENGINEER

AKH:REW
Attach.

Dec.

Contract No. 2500A
 TO Precast Construction Ltd
P.O. Box 692, AUCKLAND

Contract Title Bean Rocks
Lighthouse Reconstruction

I hereby order, under Clause 13 of the General Conditions of Contract, the following variation in the works:-

References

Rate for extra excavation as per Precast Construction's letter dated 24 April 1985.

Description of Works and Basis of Payment

Extra Excavation required in footings above the 60m³ allowed in the Contract.

14.5m ³ @ \$150-00	\$2175-00
-------------------------------	-----------


DUPLICATE

DUPLICATE

B - Contract Period No Change

~~XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX~~

Date 28/1/86


 Chief Engineer to the Board



VARIATION ORDER No. 2

Contract No. 2500A
TO Precast Construction Ltd
P.O. Box 692, AUCKLAND

Contract Title Bean Rocks
Lighthouse Reconstruction

I hereby order, under Clause **13** of the General Conditions of Contract, the following variation in the works:-

References

Precast Construction "Schedule of Variations" that accompanied their November progress claim.

Description of Works and Basis of Payment

2.1 Banding split in leg with s.s. banding strap	\$ 50-00
2.2 Hire of Cherry Picker to install electrical equipment in lighthouse - 6 hrs @ \$16-67	100-00
2.3 Modification to stairway fixing brackets	112-50
2.4 Touch up paint of lighthouse	25-00

DUPLICATE

Contract Period No Change

~~EXTENDED BY XXXXXXXX WEEKS~~

Date 28/1/86

Chief Engineer to the Board



VARIATION ORDER No. 3

Contract No. 2500A
 TO Precast Construction Ltd
P.O. Box 692, AUCKLAND

Contract Title Bean Rocks
Lighthouse Reconstruction

I hereby order, under Clause 13 of the General Conditions of Contract, the following variation in the works:-

References


Description of Works and Basis of Payment

Credits For :

3.1 Wages to keep yard open on Saturday November 16 Sunday 17 November.		
Saturday 4 hrs @ 1½)	24 hrs @ \$22-49	539-76
4 hrs @ 2)		
Sunday 5 hrs @ 2)		
3.2 Plumbers to seal holes in ridge capping		
2 December 2 plumbers @ 4½ hrs	9 hrs @ 24.55	220-95
3.3 Deletion of turnbuckles		2000-00
AHB letter 16 October 1985		
		<u>\$2760-71</u>

DUPLICATE

Contract Period No Change

 ~~Extended/Reduced by XXXXXXXXXXXXXXXXXX Weeks~~

Date 28/1/86  Chief Engineer to the Board


Auckland
Harbour Board

VARIATION ORDER No. 4

Contract No. 2500A

Contract Title Bean Rocks
Lighthouse Reconstruction

TO Precast Construction Ltd

P.O. Box 692, AUCKLAND

I hereby order, under Clause **13** of the General Conditions
of Contract, the following variation in the works:-

References

Description of Works and Basis of Payment


Extension of time of 29 days (due to late completion of
renovation work on house by A.H.B.) Making the revised
completion date 25 October 1985.

DUPLICATE

Contract Period ~~Not to exceed~~

 Extended/~~Not to exceed~~ by 29 ~~xxxxxx~~ Days

Date 28/1/86


Chief Engineer to the Board

PAY BEFORE 20.12.85

AUCKLAND HARBOUR BOARD FILE 758

THE AUCKLAND HARBOUR BOARD
P.O. BOX 1259


DATE: 10.12.85

Dr. to

ENGINEERS Department

(Name of Claimant) PRECAST CONSTRUCTION LTD.
P.O. BOX 58107, EAST TAMAKI

For the undermentioned:

Order No. Date Supplied	PARTICULARS IN FULL	Signature (A.H.B.)	Rate	TOTAL
	<p><u>Bean Rocks Lighthouse Re- construction</u></p> <p>4th progress payment on account of Contract No. 2500A for the above in accordance with Engineers Certificate No. 4 dated 10/12/85 attached.</p>			42,946. 25
<p>Signature of Claimant</p> <p>Address</p>				<p>\$ 42,946. 25</p> <p>NET TOTAL \$</p>

DUPLICATE

CREDITORS CODING FORM

Creditors No. () Inv. No. () Inv. Date () A/C Period ()

Order Ref.	Cost Code/ Job Number	Amount \$\$\$\$\$.cc	Narration (REMARKS INSERTED IN THIS COLUMN WILL APPEAR ON COMPUTER REPORT DATA)	Req'n No.	Order Line Partial/Complete
C2500A	J7322 (CC659)	\$42,946.25			

Cheque countersigned

I CERTIFY, that to the best of my belief and knowledge the foregoing account is true
and correct in every particular

CHIEF ENGINEER TO THE BOARD

Cheque No.

Empty box for Cheque No.

To: _____ Date: 10.12.85

From: _____

Progress Payment Certificate No. 4

Contract No. 2500A For BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

I hereby certify that the sum of Forty two thousand, nine hundred and forty
six dollars 25 cents
 (\$ 42,946.25) is due to Messrs Precast Construction Ltd
 on account of work completed to 25.11.85

Value of work completed (including variations)	\$190,900.00
Less Retention	28,635.00 \$
Less Previous Payments	109,035.97 \$
Less XXXXXXXXXX Ready Mixed Concrete A/c	10,282.78 \$
	\$ 147,953.75
Amount now certified	\$ 42,946.25

Chief Engineer to the Board

To: THE CHIEF ENGINEER

Date: 6 December 1985

From: THE CONSTRUCTION ENGINEER

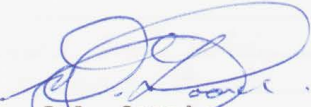
CONTRACT NO. 2500A BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

Herewith Progress Claim No. 4 from the Contractor, Precast Construction Ltd, for the above works in the sum of \$51,425-00.

I certify that the total value of work completed by 25 November 1985 is \$190,900-00 (One Hundred and Ninety Thousand Nine Hundred Dollars Only).

Total value of work to 25.11.85	\$190,900-00
Less Retentions 15% of \$190,900-00	28,635-00
	<hr/>
	162,265-00
Less Previous Payment	119,318-75
	<hr/>
PROGRESS PAYMENT NO. 4	\$ 42,946-25
	<hr/>

109,035.97
10,282.78


D.L. Goord
CONSTRUCTION ENGINEER

PEM:REW
Attach.

*W. G. ...
prepared 10/12/85
Rhb*

Contract BEAN ROCK LIGHTHOUSE
CONTRACT 2500 A

File No.

Claim No.

RECEIVED 26 NOV 1985

Period Ending 25.11.85

Prepared By I D Mellisop

Item	Description	Unit	Quantities			Rate	Value to Date
			Previously	Period	To Date		
1.	Establishment					✓ 25000	00
2.	Remove house to waterfront					✓ 5800	00
3.	Demolish Legs & Foundations					✓ 11400	00
4.	Construct Tower					✓ 63700	00
5.	Piles					✓ 75000	00
6.	Replace Lighthouse					✓ 10000	00
	Variations as enclosed						9975 00
	<i>Value Work to 30/11/85</i>					190,900 ✓	\$200875 00
	<i>Liens at 15%</i>					28,635 ✓	
						162,265 ✓	
					Previously Paid		\$119318 75
	<i>Less Paid to Date</i>					\$ 119,318.75 ✓	
	<i>Amount Payable</i>				Now Due	\$ 81,556	25
					Liens Rtns 15%	\$ 30,131	25
					Now Due	\$ 51,425	00

AUCKLAND HARBOUR BOARD

THE AUCKLAND HARBOUR BOARD
P.O. BOX 1259

DATE: 10 December 1985

Dr. to

(Name of Claimant) HOLMES COOK HOGG & CARDIFF,
P.O. BOX 5377, AUCKLAND

ENGINEERS

For the undermentioned:

Order No. Date Supplied	PARTICULARS IN FULL	Signature (A.H.B.)	Rate			TOTAL
	<p><u>New Office Premises - Superstructure</u></p> <p>Preparing valuation for progress payments, measuring works in progress, measuring and agreeing variations, attending project control and site meetings and providing financial reports on Contract 2452 to the New Office Premises on Princes Wharf, Auckland for the Auckland Harbour Board.</p> <p>Fee for November</p> <p style="text-align: center; color: blue; font-size: 2em; opacity: 0.5;">DUPLICATE</p>					6,000.00
Signature of Claimant				\$		6,000.00
Address				NET TOTAL \$		

CREDITORS CODING FORM

Creditors No. () Inv. No. () Inv. Date () A/C Period ()

Order Ref.	Cost Code/ Job Number	Amount \$\$\$\$\$.cc	Narration (REMARKS INSERTED IN THIS COLUMN WILL APPEAR ON COMPUTER REPORT DATA)	Req'n No.	Order Line Partial/Complete
	38 (00699)	\$6,000.00			

Cheque counter signed

I CERTIFY, that to the best of my belief and knowledge the foregoing account is true and correct in every particular

CHIEF ENGINEER TO THE BOARD

Cheque No.

16/9



The General Manager
Dulux New Zealand Ltd
P.O. Box 1009
AUCKLAND

27 November 1985

Dear Sir

RE: BEAN ROCKS LIGHTHOUSE

I am pleased to be able to advise that Bean Rocks Lighthouse is now back in position and will soon be fulfilling its function of guiding ships and boats in and out of the Waitemata Harbour.

The restoration has been a wonderful team effort and I would like to take this opportunity on behalf of the Board to thank your firm for their part in the restoration. The paint you have supplied plays an important part in the appearance and preservation of the house. Your further contribution of \$1,000 to assist with the application of the paint has also been appreciated by the Board in this rather expensive exercise of maintaining this harbour mark of such great public and historic interest.

Again, thank you for your support.

Yours faithfully

A handwritten signature in black ink, appearing to read "Robert Cooper".

Robert Cooper
GENERAL MANAGER

js/RC

c.c. Chief Engineer

Handwritten initials "RC" in black ink.

THE GENERAL MANAGER

22 November 1985

THE CHIEF ENGINEER

BEAN ROCKS LIGHTHOUSE - PAINT SUPPLY

Paint for the house renovations was supplied free of charge to the Board from Dulux. In addition to this, Dulux have paid the Board \$1000 towards labour costs for applying the paint.

The Board has stated that low key advertising by Dulux in return for the paint supply and \$1000 would be acceptable.


I would like to suggest that acknowledgement of their efforts in assisting with the project of restoring the Bean Rocks Lighthouse be forwarded on behalf of the Board. A suggested draft letter is attached.

B.R. Le Clerc
CHIEF ENGINEER TO THE BOARD

THE CONSTRUCTION ENGINEER

Copy for information.

CHIEF ENGINEER

 DLG:REW
Attach.

COPY

22 November 1985

The General Manager
Dulux New Zealand Ltd
P.O. Box 1009
AUCKLAND

Dear Sir

re : BEAN ROCKS LIGHTHOUSE

I am pleased to be able to report that Bean Rocks Lighthouse is now back in position and will soon be fulfilling its function of guiding ships and boats in and out of the Waitemata Harbour.

The restoration has been a wonderful team effort and I would like to take this opportunity on behalf of the Board to thank your firm for their part in the restoration. The paint you have supplied plays an important part in the appearance and preservation of the house. Your further contribution of \$1000 to assist with the application of the paint has also been appreciated by the Board in this rather expensive exercise of maintaining this harbour mark of such great public and historic interest.

Yours faithfully

COPY

AUCKLAND HARBOUR BOARD

THE AUCKLAND HARBOUR BOARD
P.O. BOX 1259

DATE: 24/10/85

Dr. to

Engineer's Department
For the undermentioned:

(Name of Claimant) Precast Construction Ltd
PO Box 58-107, East Tamaki

Order No. Date Supplied	PARTICULARS IN FULL	Signature (A.H.B.)	Rate			TOTAL
	<p><u>Bean Rocks Lighthouse Reconstruction</u></p> <p>3rd Progress Payment on account of Contract No. 2500A for the above in accordance with Engineer's Certificate No. 3 dated 24/10/85 attached.</p>	<i>AMB</i>				39,250 97
DUPLICATE						

Signature of Claimant

\$

Address

NET
TOTAL

\$

39,250 97

CREDITORS CODING FORM

Creditors No. () Inv. No. () Inv. Date () A/C Period ()

Order Ref.	Cost Code/ Job Number	Amount \$\$\$\$\$.cc	Narration (REMARKS INSERTED IN THIS COLUMN WILL APPEAR ON COMPUTER REPORT DATA)	Req'n No.	Order Line Partial/Complete
C2500A	J.7322 (CC 659)	\$39,250.97			P

Cheque countersigned

I CERTIFY, that to the best of my belief and knowledge the foregoing account is true and correct in every particular

Cheque No.

CHIEF ENGINEER TO THE BOARD

To:

Date: 24 October 1985

From:

Progress Payment Certificate No. 3

Contract No. 2500A For Bean Rocks Lighthouse Reconstruction

I hereby certify that the sum of \$39,250.97 (Thirty Nine Thousand Two Hundred and Fifty Dollars Ninety Seven Cents Only)

(\$ 39,250.97) is due to Messrs Precast Construction Ltd

on account of work completed to 10/10/85

Value of work completed (including variations) \$ 140,375.00

Less Retention 21,056.25 \$

Less Previous Payments 69,785.00 \$

Less Liens Act Retention \$

\$ 90,841.25

\$ 49,533.75

Less Ready Mixed Concrete Account Paid \$ 10,282.78

\$ 39,250.97

DUPLICATE

Chief Engineer to the Board

Certificate

Date

24/10/85

RD TIMESHEET

FOR OFFICE USE ONLY

TIME		HOURS	Meals	COSTING			
FROM	TO			DEPT.	CLASS		HOURS
7:30	5:00	9 1/2	1	HVI	WES	FL	33
				RSI	153	ZL	9
7:30	5:00	9	1				
7:30	5:00	9 1/2	1				
7:30	5:00	9	1				

To: THE CHIEF ENGINEER

Date: 14 October 1985

From: THE CONSTRUCTION ENGINEER

CONTRACT NO. 2500A - BEAN ROCK LIGHTHOUSE RECONSTRUCTION

Herewith Progress Claim No. 3 from the Contractor, Precast Construction Ltd, for the above works in the sum of \$57,555-72.

I certify that the total value of work completed by 10 October 1985 is \$140,375-00 (One Hundred and Forty Thousand Three Hundred and Seventy Five Dollars only).

Total value of work to 10 October 1985	\$140,375-00
Less Retentions	
15% of \$140,375-00	21,056-25
Less Ready Mixed Concrete A/C Paid	10,282-78
	<u>109,035-97</u>
Less Previous Payment	69,785-00
	<u>39,250-97</u>
PROGRESS PAYMENT NO. 3	\$ 39,250-97

D.L. Goord

for D.L. Goord
CONSTRUCTION ENGINEER

AKH:REW
Attach

*Checked & sent.
prepared 15/10/85*



With Compliments

12 Oct 85

17 HOUSE
C.2500 A

File No.

Claim No. 3

Period Ending 12 Oct 85

Prepared By DMW/RSK

TONY HOUNES.

CLAIM - ARBITR
PROCESS

Jan

TELEPHONE 31-987
396-792

9/1 WESTHAVEN DRIVE, WESTHAVEN, AUCKLAND, 1.
P.O. BOX 692, AUCKLAND, TELEX: NZ 60954 SHEFFEX.

	Unit	Quantities			Rate	Value to Date
		Previously	Period	To Date		
				90%	25000	22500 00
	USE			100%	5800	5800 00
				100%	11400	11,400 00
5.	REMOVE MATS + CONSTRUCT TOWER			80%	63700	50,960 00
7.	FOUNDATIONS			95%	75000	71,250 00
TOTAL TO DATE.						\$ 161,910 00
LESS RETENTIONS. 15%						\$ 137,623 50
PREVIOUS PAID						69,785 00
BALANCE						67,838 50
LESS DIRECT PAYMENT						
READY MIX CONCRETE						10,282 78
NOW DUE						\$ 57,555 72
<i>The Pd To date</i>						
1	Est	25,000	0.038	0.863		21,575.00 ✓
3	Remove House	5,800	-	1.000		5,800.00 ✓
4	Demolish Tower	11,400	1.000	1.000		11,400.00 ✓
5	Construct Tower	63,700	0.250	0.500		31,850.00 ✓
7	Foundations	75,000	0.400	0.930		69,750.00 ✓
8	Return House	10,000	-	-		-
9	Conting. Sum	30,000	-	-		-
Value of Work To Date						110,375.00 ✓
Less 15% Retention						21,056.25 ✓

Form 2

RECEIVED 10 OCT 1985

Ready Mixed

Carried to Summary / Forward

Cancel A/C Paid

\$ 39,250.97 ✓

Jan

Contract BETAN ROCK LIGHTHOUSE
RECONSTRUCTION C.2500 A.

File No. _____
 Claim No. 3
 Period Ending 12/01/85
 Prepared By DMR/SVP

Item	Description	Unit	Quantities			Rate	Value to Date
			Previously	Period	To Date		
1.	ESTABLISHMENT				90%	25000	22500 00
3.	DISCONNECT & REMOVE HOUSE				100%	5800	5800 00
4.	DEMOLISH TOWER + PILE FOUNDATIONS				100%	11400	11,400 00
5.	PROVIDE MATS + CONSTRUCT TOWER				80%	63700	50,960 00
7.	FOUNDATIONS				95%	75000	71,250 00
TOTAL TO DATE.							\$ 161,910 00
LESS RETENTIONS 15%							\$ 137,623 50
PREVIOUS PAID							69,785 00
BALANCE							67,838 50
LESS DIRECT PAYMENT							
READY MIX CONCRETE							10,282 78
NOW DUE							\$ 57,555 72
This Pd To date							
1	Est		25,000	0.038	0.863		21,575.00 ✓
3	Remove House		5,800	-	1.000		5,800.00 ✓
4	Demolish Tower		11,400	1.000	1.000		11,400.00 ✓
5	Construct Tower		63,700	0.250	0.500		31,850.00 ✓
7	Foundations		75,000	0.400	0.930		69,750.00 ✓
8	Return House		10,000	-	-		- ✓
9	Conting. Sum		30,000	-	-		- ✓
Value of work To date							140,375.00 ✓
Less 15% Retention							21,056.25 ✓
Previous Payments							69,785.00 ✓
Ready Mixed Concrete A/C Paid							10,282.78 ✓
Carried to Summary Forward							\$ 39,250.97 ✓

Form 2

RECEIVED 10 OCT 1985

[Signature]

Carried to Summary Forward

\$ 39,250.97 ✓

PLEASE REFER TO ENGINEERS

MICROFICHE NO. ENG. 472

FOR PREVIOUS 100 DOCUMENTS

PAY BEFORE 5 /9/85

758

AUCKLAND HARBOUR BOARD

THE AUCKLAND HARBOUR BOARD
P.O. BOX 1259

DATE: 15 August 1985

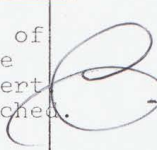
Dr. to

Engineers

Department

(Name of Claimant) Precast Construction Ltd
PO Box 58-107, EAST TAMAKI

For the undermentioned:

Order No. Date Supplied	PARTICULARS IN FULL	Signature (A.H.B.)	Rate	TOTAL
	<u>BEANS ROCK LIGHTHOUSE RECONSTRUCTION</u> 2nd Progress Payment on account of Contract No. 2500A for the above in accordance with Engineer's Cert No. 2 dated 15 August 1985 attached.			\$50,405.00

DUPLICATE

Signature of Claimant

Address

	\$	
NET TOTAL	\$	50,405.00

CREDITORS CODING FORM

Creditors No. () Inv. No. () Inv. Date () A/C Period ()

Order Ref.	Cost Code/ Job Number	Amount \$\$\$\$\$.cc	Narration (REMARKS INSERTED IN THIS COLUMN WILL APPEAR ON COMPUTER REPORT DATA)	Req'n No.	Order Line Partial/Complete
C2500 ^A	J7322 (CC 659)	\$50,405.00			P

Cheque countersigned

I CERTIFY, that to the best of my belief and knowledge the foregoing account is true and correct in every particular

Cheque No.

CHIEF ENGINEER TO THE BOARD

To:

Date: 15 August 1985

From:

Progress Payment Certificate

No. 2

Contract No. 2500A

For Beans Rock Lighthouse Reconstruction

I hereby certify that the sum of Fifty Thousand, Four Hundred and Five dollars

(\$ 50,405.00) is due to Messrs Precast Construction Limited.

on account of work completed to 8/8/85

Value of work completed (including variations)		\$ 82,100.00
Less Retention	12,315.00	\$
Less Previous Payments	19,380.00	\$
Less Liens Act Retention		\$
		\$
		31,695.00
Amount now certified		\$ 50,405.00

DUPLICATE

Chief Engineer to the Board



Memorandum

To: THE CHIEF ENGINEER

Date: 14 August 1985

From: THE CONSTRUCTION ENGINEER

CONTRACT NO. 2500A -
BEAN ROCK LIGHTHOUSE RECONSTRUCTION

Herewith Progress Claim No. 2 from the Contractor,
Precast Construction Ltd, for the above works in the sum
of \$81,366-25.


I certify that the total value of work completed by
8 August 1985 is \$82,100-00 (Eighty Two Thousand One
Hundred Dollars Only).

Total Value of Work to 8 August 1985	\$82,100-00
Less Retentions	
15% of \$82,100-00	12,315-00
	<hr/>
	69,785-00
Less Previous Payment	19,380-00
	<hr/>
PROGRESS PAYMENT NO. 2	\$50,405-00
	<hr/>


D.L. Goord
CONSTRUCTION ENGINEER

PEM:REW
Attach.

*Voucher v. cert.
prepared 15/8/85
AKB*



Auckland
Harbour Board

Auckland Harbour Board
1 Queen Street, Auckland, New Zealand
P.O. Box 1259, Auckland
Telephone 795-950, Telex: N Z 2705
Telegrams: Haboard, Auckland

Reference

13 August 1985

The Manager
Precast Construction Limited
60 Taipoa Road
Te Atatu
AUCKLAND 8

Attention: Mr I Melsop

Dear Sir

BEAN ROCK'S LIGHTHOUSE - CONTRACT 2500A

Your application for approval to use the Tamaki Yacht Club carpark for helicopters to fly concrete to the lighthouse foundations has been referred to the General Manager.

Your operation is understood to involve 2 helicopters, with one every three minutes over a period of five hours picking up a hopper of concrete at the Yacht Club, starting at 9 am on Friday 16 August or a similar period on Monday or Tuesday if weather forces a postponement.

You have stated that Tamaki Yacht Club permission has been obtained.

Approval for the operation is given provided you have obtained approvals from the Civil Aviation Department and Auckland City Council.

Yours faithfully

B R Le Clerc
CHIEF ENGINEER TO THE BOARD

BLeC:SAW

Contract BEAN ROCK LIGHTHOUSE
RECONSTRUCTION

File No. _____
 Claim No. 2
 Period Ending 8 AUG 85
 Prepared By LOM

Item	Description	Unit	Quantities			Rate	Value to Date
			Previously	Period	To Date		
1.	ESTABLISHMENT				100%		25,000 00
2.	REMOVE LIGHT HOUSE				100%		5800 00
3.	CONSTRUCTION OF TOWER				50%		31850 00
7.1	REMOVE PACKED ROCK			60m ³	60m ³	900	54000 00
7.2	SUPPLY & REPLACE RED.			50%	50%	3750	1875 00
							<u>118525 00</u>
DEDUCT 15%							\$ 100,746 25
DEDUCT PREVIOUS PAID							19,380 00
							<u>\$ 81,366 25</u>
<p style="color: red;">Est. Allow 75% to start 15% this contract 10% Finish Est Due 75 + $\frac{15}{2}$ 92.5%</p>							
1	Est		\$25,000		0.825		20625 00 ✓
2					-		-
3	Remove House		\$5,800		1.000		5800 00 ✓
4	Demolish tower				-		-
5	Erect tower		\$63,700		0.250		15925 00 ✓
7	Foundations		\$75,000		0.530		39750 00 ✓
							92100 00 ✓
Less Retention 15% of \$82,100 -			12315 ✓				
Previous payments			19380 ✓				31695 00 ✓
							<u>50406 00</u> ✓

Form 2 *Legs Ladders brackets*
 7.0 Conc ^{69%} 200' \$27,600

Carried to Summary / Forward

RECEIVED - 8 AUG 1985

16/9

The Manager
Precast Construction Ltd
60 Taipoa Road
Te Atatu
AUCKLAND 9

24 July 1985

Dear Sir

CONTRACT NO. 2500A -- BEAN ROCK LIGHTHOUSE RECONSTRUCTION

... Please find enclosed for your records the signed and sealed counterpart of the Contract Document which was executed by the Board at their meeting on 23 July 1985.

Yours faithfully

JMH

J.M. Halling
CHIEF ADMINISTRATIVE OFFICER
AND SECRETARY

Encls.
js/JCT

c.c. Treasurer
Chief Engineer
Contract File



Blet

758

9 Mikasa Place,
Mangere,
AUCKLAND,
16th July, 1985

The Chief Engineer,
Auckland Harbor Board,
P.O. Box 1259,
AUCKLAND, 1

Dear Sir,

I would like to enquire about obtaining a visitor's permit to photograph the restoration work of the Bean Rock Lighthouse cottage, which is presently at your Board's slipway in Beaumont Street.

The Historic Places Trust magazine have asked me to compile an update story on the reconstruction of Bean Rock, following an article I presented about its history last year.

I was out on the harbor last month photographing the Hikunui at work dismantling the old tower, and would certainly like to photograph some stages of the refurbishing, while the cottage is still ashore.

Yours faithfully,

P. W. Shirley

Paul W. Shirley

Copy sent 19/7

*Mr. Gordon: Please action
18/7*

Mr. Jones

Mr Shirley has had a long-standing interest in the lighthouse and is to be encouraged by allowing him access as requested.

Please arrange. Advise him of what is required of him.



BleC.



MINISTRY of TRANSPORT

CUSTOM HOUSE
QUAY STREET
AUCKLAND
NEW ZEALAND

PRIVATE BAG, AUCKLAND 1
TELEPHONE: 773 400

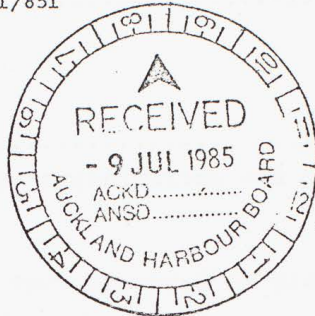
*Original
758 BEAN*

WHEN REPLYING
PLEASE QUOTE Our Ref: 54/1/851

Harbours and Foreshores
Section

5 July 1985

The Secretary
Auckland Harbour Board
P.O. Box 1259
AUCKLAND



Dear Sir

LIGHTHOUSE RECONSTRUCTION : BEAN ROCK

I am pleased to advise that plans of the above proposal have been approved pursuant to Section 178(b) of the Harbours Act 1950.

A copy of the approved plan marked "Copy of M.D. (N) 1204" is attached for your records.

Approval is subject to the following conditions:-

1. Construction of the work shown on the approved plan is to be supervised by a suitably qualified person.
2. The work shall not be altered or extended from that shown on the approved plan M.D. (N) 1204 without having first sought and obtained approved in terms of the provisions of the Harbours Act 1950.
3. The applicant or his successors or assigns shall be responsible for the continued maintenance of the work in accordance with plan M.D. (N) 1204.
4. The applicant shall upon completion of the works complete the attached certificate, certifying that the work has been completed in accordance with the approved plan and stated intentions.

This approval is given for the purposes of and in relation to the Harbours Act 1950 only, and is not to be taken as any representation or assurance by the Crown that the works are otherwise in order, whether in terms of engineering, planning, use or otherwise.

Yours faithfully

P. D. Spackman
for Regional Secretary for Transport

*sent 10/7
Copy to D.E. 666*

*Mr Jones to
note
10/7*

*sent original
for completion
27/11/85
to construction*



file

*Dpts to
Plan Room*

Encl
0012M

Bup 1/12/85

E2653

CERTIFICATE OF COMPLETION

I,
(name)

of
(company, organisation and address)

hereby certify that the work approved on plan MD.(N).1204.....
being BEAN ROCK LIGHTHOUSE RECONSTRUCTION
(type of work)

has been completed in accordance with that plan and the stated
intentions of the application.

(signed)

(position)

(M.O.T. Reference ...54/1/851.....)

Discussed with
Tony Roberts

28/6/85

C.E.Beam Reels

J/2

Advertising of Products

1. Brownbunt have pulled out.
2. The only offers now are for paint removal
& paint application for walls

3.1. Paint Removal.

Peel-away wish to use their products +
the offer is for us to purchase (\$3,000) and
they will apply & supply all labour.

use A+B labour →

(try for free product)

no labour involvement
by the producer.

As there is more than 15 coats involved, we are keen
to accept this offer.

3.2. Paint Application to walls

Offers have been received from Samson,
Dulux & Healing's (a possibly others)

→

Dulux is best offer:

Free paint + \$1000 towards
application

Mr Jones, please arrange for acceptance of
the best offer for paint removal
and paint supply provided
they are compatible processes,
and union acceptable!

28/6/85

3. Offers one conditional on the companies being able to mention Beam Reeks lighthouse (and possibly include photographs) in trade magazines etc. It is not intended to allow them to have signs on the structure.

J.M. Jones

AUCKLAND HARBOUR BOARD

File 758

THE AUCKLAND HARBOUR BOARD
P.O. BOX 1259

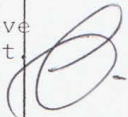
DATE: 24/6/85

Dr. to

(Name of Claimant) Precast Construction Ltd
PO Box 58107, East Tamaki

Engineer's Department

For the undermentioned:

Order No. Date Supplied	PARTICULARS IN FULL	Signature (A.H.B.)	Rate			TOTAL
	<u>Beans Rock Lighthouse - Reconstruction</u> 1st Progress Payment on account of Contract No. 2500A for the above in accordance with Engineer's Cert. No 1 dated 24/6/85 attached.					19,380 00
DUPLICATE						

Signature of Claimant

\$

19,380 00

Address

NET
TOTAL

\$

CREDITORS CODING FORM

Creditors No. () Inv. No. () Inv. Date () A/C Period ()

Order Ref.	Cost Code/ Job Number	Amount \$\$\$\$\$.cc	Narration (REMARKS INSERTED IN THIS COLUMN WILL APPEAR ON COMPUTER REPORT DATA)	Req'n No.	Order Line Partial/Complete
C2500	J7322 (C.C. 659)	\$19380-00			P

Cheque countersigned

I CERTIFY, that to the best of my belief and knowledge the foregoing account is true and correct in every particular

Cheque No.

Cheque Engineer to Board

To: THE CHIEF ENGINEER

Date: 21 June 1985

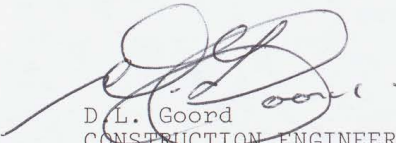
From: THE CONSTRUCTION ENGINEER

CONTRACT NO. 2500A
BEAN ROCKS LIGHT HOUSE - RECONSTRUCTION

Herewith Progress Claim No. 1 from the Contractor,
Precast Construction Ltd, for the above works in the sum
of \$24,220-00.

I certify that the total value of work completed by
15.6.85 is \$22,800-00 (Twenty Two Thousand Eight Hundred
Dollars Only).

Total Value of Work to 15.6.85	\$22,800-00
Less Retentions 15% of \$22,800-00	3,420-00
	<hr/>
PROGRESS PAYMENT NO. 1	\$19,380-00
	<hr/>



D.L. Goord
CONSTRUCTION ENGINEER

PEM:REW
Attach.

To: THE ADMINISTRATION MANAGER
ENGINEERS DEPARTMENT

Date: 20 June 1985

From: THE CONSTRUCTION ENGINEER

re : CONTRACT 2500A - BEAN ROCKS LIGHTHOUSE - RECONSTRUCTION

Please find attached the following for the above Contract.

1. 1 copy of Schedule 3 Form of Bond duly signed by the Contractor.
2. 2 signed copies of the Specification.
3. 2 signed copies of each of the following drawings -

E 2653 Sheets 1 to 6
E 1643 Sheet 1
K 814 Sheet 1

4. 2 copies of Second Schedule "Form of Agreement".
5. 2 copies of each Tender Form, Schedule of Quantities, Schedule of Dayworks Rates.
6. 2 copies of Precast Construction Ltd's letter to A.H.B. dated 24 April re Plant Hire Charges.
7. 2 copies of A.H.B. letter to Precast Construction dated 30 April regarding the hire of the "Hikinui".

Items 6 and 7 should be bound into the Contract documents.


All documents appear to be in order.



P.L. Goord
CONSTRUCTION ENGINEER

AKH:REW
Attach

Please file


*Mr. Williams
forwarded for Board
execution by*

25/6/85



To: THE GENERAL MANAGER

Date: 19 June 1985

From: THE CHIEF ENGINEER



BEAN ROCKS LIGHTHOUSE

Messrs Samson Paints Ltd have made an approach offering to supply paint and technical advice on painting of the renovated lighthouse so that it can be used for their advertising purposes similar to what was done some years ago.

The value of the paint is about \$1,000.

Could I please have your ruling on whether to accept the offer.

CHIEF ENGINEER TO THE BOARD

BRLeC:JARW

Copy to : CONSTRUCTION ENGINEER

Copy has been sent to Const. Eng. J 20/6

✓ The CE

I will be guided by your Dept on the technical advantages of Samson Paints, are used. Reverting back in history I do believe this sort of arrangement has ongoing & therefore does not create precedence.



Please arrange acceptance provided it is for whole structure. 19/6/85. BRLeC 20/6/85



4-14 Patiki Road, Avondale. P.O. Box 71-092, Rosebank, Auckland, 7. Phone 883-116.

1071

GM to see
Deer

14 JUNE 1985



THE CONSTRUCTION ENGINEERS DIVISION
AUCKLAND HARBOUR BOARD
P.O. Box 1259
AUCKLAND



ATTENTION: MR HOLMES

DEAR SIR

THANK YOU FOR YOUR TELEPHONE CALL RE "BEAN ROCK" LIGHTHOUSE AND OUR CONVERSATION ON SITE TODAY.

WE WISH TO CONVEY TO YOUR BOARD MEMBERS THIS OFFER -

WE OF SAMSON PAINTS WOULD LIKE TO DONATE THE PAINT MATERIALS REQUIRED TO REFURBISH THE HOUSE STRUCTURE OF THE "BEAN ROCK" LIGHTHOUSE. ALONG WITH THIS WE WOULD ALSO SUPPLY A WRITTEN SPECIFICATION FOR THE PROCEDURES NECESSARY TO REFINISH THE BUILDING SO AS TO GIVE A SIMILAR LIFE SPAN AS IT DID WITH ITS LAST COATING.

WE WOULD ALSO OFFER TO VIEW AND SUPERVISE THE WORK WHILE IT IS IN PROGRESS.

FOR THIS WE WOULD LIKE TO BE ABLE TO USE "BEAN ROCK" LIGHTHOUSE IN SOME FORM OF LOW KEY ADVERTISING SAY IN THE HARDWARE AND PAINT JOURNALS PROBABLY IN EDITORIALS.

THANK YOU FOR THIS OPPORTUNITY TO CONTINUE OUR LONG ASSOCIATION WITH THE AUCKLAND HARBOUR BOARD.

YOURS FAITHFULLY
SAMSON GOLD-X COATINGS

John Smart
J. SMART
SALES DEVELOPMENT MANAGER

*Copy to Const. Engrs.
for info. Rec.*

*done
bld*

*GM
CES*

THE GENERAL MANAGER

19 June 1985

THE CHIEF ENGINEER

BEAN ROCKS LIGHTHOUSE

Messrs Samson Paints Ltd have made an approach offering to supply paint and technical advice on painting of the renovated lighthouse so that it can be used for their advertising purposes similar to what was done some years ago.

The value of the paint is about \$1,000.

Could I please have your ruling on whether to accept the offer.

CHIEF ENGINEER TO THE BOARD

BRLeC:JARW

Copy to : CONSTRUCTION ENGINEER

:for information

CHIEF ENGINEER TO THE BOARD

DIRECTORS:
I. D. MELLOP
M.I.C.E., M.N.Z.I.E., C.ENG.
R. BIGGS

**PRECAST
Construction Ltd.**

PHONE:
AK 530-8471
P.O. BOX 58107
EAST TAMAKI

CIVIL ENGINEERS — AUCKLAND, NEW ZEALAND

15 June 1985.

The Chief Engineer,
Auckland Harbour Board,
Box 1259,
AUCKLAND.

Bean Rock Light House
Contract 2500 - A

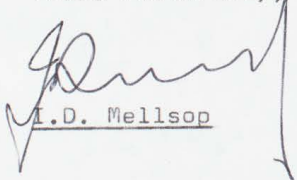
Dear Sir,


We enclose our claim no. 1 for work completed to date.

Referring to our schedule we provide the following breakdown of costs associated with our establishment item:

* provide boats, barges, vehicles and small tools	\$15,000.00
* provide bond, insurances and planning	\$ 5,000.00
* remove all plant and equipment from site at completion.	\$ 5,000.00
	<hr/>
	\$25,000.00
	<hr/>

Yours faithfully,


I.D. Mellso

Recorded - 18/6/85


Contract Bean Rock Lighthouse
Contract 2500 A

File No.

Claim No 1

Period Ending 15 June 1985

Prepared By

Item	Description	Unit	Quantities			Rate	Value to Date
			Previously	Period	To Date		
1	Establishment			0-60	17,000		20,000.00
3	Remove house to shore					X	5,800.00
				TOTAL	22800		25,800.00
				Less 10%	3220		23,220.00
				plus release contract deposit			1,000.00
				NOW DUE			\$24,220.00
							19,380.00

To: THE GENERAL MANAGER

Date: 13 June 1985

From: THE CHIEF ENGINEER

BEAN ROCKS LIGHTHOUSE - RECONSTRUCTION

CONTRACT 2500 A

Attached is a copy of the proposed works programme for the above Contract. Lifting off the house was carried out by the "Hikinui" on 12 June 1985.

The work of refurbishing the house will commence when the house has been installed in its temporary position at the Board's Buoy and Beacon area in Beaumont Street.

As indicated on the programme the installation of the refurbished house, on its new legs, will take place towards the end of September which is the end of the Contractor's sixteen week Contract Period.

B.R. Le Clerc
CHIEF ENGINEER TO THE BOARD

BRL:SR



Copy of proposed works programme

C.C. Design Engineer
Construction Engineer

758
30-5-85



To Construction Engineer
From Assistant Design Engineer

BEAN ROCKS LIGHTHOUSE - HIKIMUI MOORINGS

With regards to your memo of the 28th May 85. Discussions took place during March 85 between L. Jones, P. Wells-Green, R. Walker, R. Bidwell, T. Dale and the deputy skipper of the 'Hikimui'. It was agreed that the lighthouse mooring be left off the Bear Rocks each side of high water in the position shown on Drawing E1643/01.

Subsequently the Capt R. Tisdale and N. Huded skipper of the 'Hikimui' have requested that an additional pile be placed in a position shown on Drawing E1643/01/1 41 metres north west of the existing eastern bow pile.

The Harbour Master has approved the placing of the additional pile but has requested that it be a navigational hazard for as short a period as possible i.e. it is removed after lifting the house and redown when the house is due to be replaced.

R. Walker

~~c.c. L. Jones~~

P. Wells-Green

758
F

THE DESIGN ENGINEER

28 May 1985

THE CONSTRUCTION ENGINEER

BEAN ROCKS LIGHTHOUSE - HIKINUI MOORINGS

Possible difficulties have arisen with the use of Hikinui for removing the light house. Could you please provide details of discussions that took place with the Master, the people involved and the agreement reached, so that negotiations can be taken up where left off without covering further ground.

As it is anticipated the house removal will be required within a week of M.O.T. advice and any further work required at this site in preparation for Hikinui is dependent upon the weather.

Your urgent reply is requested.

D.L. Goord
CONSTRUCTION ENGINEER


DLG:REW
THE CHIEF ENGINEER

Copy for information.


CONSTRUCTION ENGINEER



Bled

Mr Jones to see


REPORT OF THE BEAN ROCKS LIGHTHOUSE SUB-COMMITTEE 6 MAY 1985

The Committee considered the report of 6 May 1985 of the Sub-Committee which had been appointed at the 26 March 1985 Board Meeting to evaluate and accept a new tender for the restoration of the lighthouse.

The Sub-Committee had considered the report of the Chief Engineer of 3 May 1985 which recommended that subject to all relevant statutory approvals the tender of Precast Construction Limited for \$220,900 be accepted. The Chief Engineer advised that the total cost of the restoration would be \$378,400 of which approximately \$350,000 would be spent in this financial year whereas only \$280,000 had been provided in the programme.

The Acting General Manager's report of 6 May 1985 had advised the Sub-Committee that he endorsed the Chief Engineer's report and added that the additional \$70,000 should be made available from Reserves. The Sub-Committee had unanimously resolved that the reports be adopted and that Management take every necessary step to keep the cost of the project to a minimum.

It was RESOLVED to recommend that the report of the Sub-Committee be received.

ADOPTED BY BOARD

28 MAY 1985

Design Engr: To instruct Const. Engr to supervise the work.

*Electrical Engr
Const Engr.
Works Mgr } To note*

Electrical Engr: To finalise details re navigation light and fog horn equipment. Issue works order for light and requisition for solar panels and batteries.



Auckland Harbour Board

16/9

ITEM 7

REPORT OF

BEAN ROCKS LIGHTHOUSE SUB-COMMITTEE

MONDAY 6 MAY 1985 AT 2.15 P.M.

PRESENT: Sir Lloyd Elsmore (Chairman) and
Messrs L.A. Manning (co-opted) and
M.R. Mason (co-opted).

Messrs R.W. Carr and H.L. Julian
were on leave of absence.

Your Committee has the honour to report as follows:

BEAN ROCKS LIGHTHOUSE

The Sub-Committee considered the report of the Chief Engineer dated 3 May 1985 which referred to the Board's decision at its 26 March 1985 meeting to reject all tenders for the Bean Rocks Lighthouse restoration. The Chief Engineer was authorised to re-examine the Contract documents and recall tenders with the objective of obtaining a more satisfactory offer. The Board also appointed a Sub-Committee comprising the Chairman of the Board, the Deputy Chairman and the Chairman of the Works and Traffic Committee to evaluate and accept a tender.

The Chief Engineer's report detailed the tenders subsequently received since the Contract had been readvertised based on revised Contract conditions.

The Contract included:

1. Removing the lighthouse to the Buoys and Beacons yard.
2. Replacement of the foundation piles and tower.
3. The reinstallation of the lighthouse on the new tower.

The floating crane "Hikinui" was offered free for two eight hour periods to the successful tenderer.

The lowest tender was submitted by Precast Construction Ltd and was for \$220,900 with a 16 week completion period.

... ..

The Chief Engineer advised that using Precast Construction Ltd's tender price the total cost of the restoration would be \$378,400 which would be \$98,400 or 35% more than the original estimate of \$280,000.

Of the \$378,400 approximately \$350,000 would be spent in this financial year. A sum of \$280,000 was included in the 1984/85 Programme of Works with \$160,000 at Items 57.110 and 57.130 ex capital sources, and \$120,000 in the Maintenance Programme. Therefore, an additional \$70,000 would need to be provided to enable the works to proceed this financial year.

The Chief Engineer also advised that the Waitemata Harbour Maritime Planning Authority approval had been received and that an application to the Ministry of Transport for approval under the Harbours Act had been made.

He concluded by recommending that -

1. Subject to the receipt by Board of all relevant statutory approvals the tender of Precast Construction Ltd for the sum of \$220,900 subject to escalation be accepted.
2. Financial provision be made in the 1984/85 Works Programme for an additional expenditure of \$70,000 in the Maintenance Programme.

The Acting General Manager's report of 6 May 1985 endorsed the Chief Engineer's recommendations and added that the work needed to be progressed and that the additional \$70,000 required should be made available from Reserves.

The Sub-Committee expressed concern at the variance between the original estimate and the amount now considered necessary to complete the lighthouse restoration. Nevertheless it considered that the work should proceed as soon as possible because of the historical and architectural significance of the work.

The Sub-Committee unanimously RESOLVED

- (a) That the reports be adopted.
- (b) That Management take every necessary step to keep the costs of the project to a minimum.

As the Sub-Committee was empowered to act this report is submitted for information only.

(sgd) Sir Lloyd Elsmore
ACTING CHAIRMAN



Auckland Harbour Board

BUSINESS PAPER

SUB-COMMITTEE RE BEAN ROCKS

LIGHTHOUSE - CONTRACT NO.2500A

MONDAY 6 MAY 1985 AT 2.15 P.M.

MEMBERS OF SUB-COMMITTEE Mr H.L. Julian (Chairman),
Sir Lloyd Elsmore and Mr R.W. Carr
Messrs L.A. Manning and M.R. Mason
(co-opted)

Bean Rocks Lighthouse - Contract No.2500A

Reports of Acting General Manager and Chief Engineer thereon



Auckland Harbour Board

6 May 1985

The Chairman
Sub-Committee Re Bean Rocks Lighthouse
AUCKLAND HARBOUR BOARD

BEAN ROCKS LIGHTHOUSE - CONTRACT NO. 2500A

The attached report of the Chief Engineer dated 3 May 1985 lists and appraises eight tenders received following the re-advertising of the Contract based on revised Contract conditions.

The report identifies a shortfall of \$70,000 in finance already programmed within this financial year for the Project. However, the work needs to progress and provision should be made from Reserves.

I endorse the Chief Engineer's recommendations.

A handwritten signature in dark ink, appearing to read 'R. Cooper'.

R. Cooper
ACTING GENERAL MANAGER

THE CONSTRUCTION ENGINEER
THE CHIEF ENGINEER

15 May 1985

BEAN ROCKS RECONSTRUCTION
CONTRACT NO. 2500A

1. This Contract has been let to Precast Construction Ltd for \$220,900. When the Design Engineer advises you of Board's receipt of Ministry of Transports approval, would you please arrange the following:-
 - (a) A starting date with the Contractor.
 - (b) To supervise the work and administer the contract.
2. Enclosed are 6 sets of the working documents including a priced Schedule of Quantities. Please issue two sets of these documents to the Contractor. Enclosed also are copies of the following relevant letters:-
 - (a) Board to Contract dated 30 April 1985. Confirming hire periods for Floating Crane "Hikinui".
 - (b) Contractor to Board dated 24 April 1985. Confirming material and plant hire charges.
3. This amount allowed for renovating the house is \$26,000 plus a contingency of \$4,000. Every effort must be made to stay within this budget. If this proves impossible a report will be required before the over-expenditure occurs in order that the General Manager can be informed. Maintenance within the building must be kept to a bare minimum that ensures safe access to the light for maintenance purposes.

....

Please ensure that the Officer in Charge keeps a log detailing all the work that is carried out.

B.R. Le Clerc
CHIEF ENGINEER TO THE BOARD

RHW:JMH

c.c. Electrical Engineer
Harbourmaster
Traffic Manager



Auckland
Harbour Board

Auckland Harbour Board
1 Queen Street, Auckland, New Zealand
P.O. Box 1259, Auckland
Telephone 795-950, Telex: N Z 2705
Telegrams: Haborad, Auckland

Reference 16/9

7 May 1985

~~The Manager
Wiri Construction Limited
P.O. Box 76-267
MANUKAU CITY~~

Dear Sir

CONTRACT NO. 2500A - BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

I have to advise that your tender in respect of the above contract is declined with thanks, the successful tenderer being Precast Construction Limited.

... Your tender deposit cheque is returned herewith.

Yours faithfully



J.M. Halling
CHIEF ADMINISTRATIVE OFFICER
AND SECRETARY

c.c. CHIEF ENGINEER
TREASURER
CONTRACT FILE

Also to the Managers

1. Eatson and Francis Contractors Ltd
P.O. Box 14-173
PANMURE
2. McConnell Dowell Constructors Ltd
Private Bag
Newmarket
AUCKLAND
3. Green and McCahill (Contractors) Ltd
P.O. Box 12-443
PENROSE

3. Energy Construction Ltd
P.O. Box 12-784
AUCKLAND
4. Union Engineering Ltd
P.O. Box 58-215
AUCKLAND
5. R.M. Myers
18 Vienna Place
Birkenhead
AUCKLAND 10



Blcl



Auckland Harbour Board

Auckland Harbour Board
1 Queen Street, Auckland, New Zealand
P.O. Box 1259, Auckland
Telephone 795-950, Telex: N Z 2705
Telegrams: Haboard, Auckland

Reference

~~The Manager
Precast Construction Limited
P.O. Box 42021
Orakei
AUCKLAND~~

7 May 1985

Dear Sir

CONTRACT NO. 2500A - BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

The Board at a meeting on 6 May 1985 gave consideration to tenders received for the above Contract. I am pleased to advise that your tender for the sum of \$220,900, subject to escalation and a completion time of 16 weeks, was accepted.

... Formal documents (in duplicate) are now enclosed for your attention. Would you please arrange to have the Form of Agreement for Fulfilment of Contract signed attaching thereto the Seal of your Company and the Specifications initialled on each page. On completion of these formalities the documents should be returned for execution by the Board.

Your attention is also drawn to the requirement for Bonds and Sureties as set out in clauses under 3.1 and 3.2 of the Special Conditions of contract and these matters together with all matters of details in respect of the Contract will be dealt with by the Chief Engineer to the Board.

Yours faithfully

J.M. Halling
CHIEF ADMINISTRATIVE OFFICER
AND SECRETARY

*Copy sent to
D.E. for action
as discussed.
Jds
* Not correct*



57322

c.c. CHIEF ENGINEER
TREASURER
CONTRACT FILE

*Copy to
Mr Jones - note the lack of a hold ref MOT approval.
* It appears we are to get going on the assumption
of MOT agreement being forthcoming
Blel*

758 BEAN

10/4



MINISTRY of TRANSPORT

HARBOURS & FORESHORES SECTION

PRIVATE BAG
AUCKLAND
TELEPHONE: 773-400

CUSTOM HOUSE
QUAY STREET
AUCKLAND

Reference: ..54/1/851.....
Your ref :
Date: ..6 May 1985.....

..The Secretary.....
..Auckland Harbour Board.....
..P.O. Box 1259.....
AUCKLAND



Dear Sir

LIGHTHOUSE RECONSTRUCTION : BEAN ROCKS

Receipt of your application for your proposed
reconstruction of the Bean Rock Lighthouse

is acknowledged . Technical reports will be obtained on the proposal. This will
take some little time, but as soon as a decision has been reached, you will be
advised.

Yours faithfully

P.P. *[Signature]*
P.D. Spackman
for Regional Secretary for Transport

CF4

Copy to D.E. done bld

[Handwritten signature]





Auckland Harbour Board

3 May 1985
Engr's file
758

The General Manager
AUCKLAND HARBOUR BOARD

BEAN ROCKS LIGHTHOUSE
CONTRACT NO. 2500A

The Board at its March 1985 meeting rejected all tenders for the Bean Rocks Lighthouse restoration and authorised the Chief Engineer to re-examine the Contract Documents and recall tenders with the objective of obtaining a more satisfactory offer.

The following alterations were made to the Contract Documents:-

1. An alternate foundation design was offered.
2. The Auckland Harbour Board Floating Crane "Hikinui" together with mooring piles and anchors was offered free for two eight hour periods to the successful tenderer.

Tenders were then recalled for:-

1. Removing the Lighthouse to the Buoys and Beacons yard.
2. Replacement of the foundation piles and tower.
3. The reinstallation of the lighthouse on the new tower.

The following eight tenders have now been received:-

<u>TENDERER</u>	<u>TIME</u>	<u>ALTERNATIVE</u> <u>1</u>	<u>ALTERNATIVE</u> <u>2</u>
Precast Construction Ltd	16 weeks		\$220,900.00
Eatson and Francis Contractors Ltd	10 weeks		\$225,724.13
Wiri Construction Ltd (Non Conforming alternative)	26 weeks		\$252,284.00 (\$238,284.00)
Union Engineering Ltd	13 weeks		\$240,000.00
R.M. Myers	30 weeks	\$269,923.00	\$247,626.00
Green and McCahill Contractors Ltd	26 weeks		\$265,065.00
McConnell Dowell Constructors Ltd	23 weeks	\$336,585.00	\$278,690.00
Energy Construction Ltd	30 weeks		\$286,862.50

The lowest tenderer, Precast Construction Ltd, has been in business for several years and has recently satisfactorily completed the construction of the Kelly Tarlton Aquarium and the assembly of the southern piers of the Westhaven Marina.

Finance

The estimate for the restoration of the lighthouse and the installation of a solar powered light and foghorn was \$280,000. With the hardwood for the tower purchased and using Precast Construction Ltd's tender price, this estimate is revised as follows:-

Hardwood Supply	\$ 16,500
Contract 2500A	220,900
"Hikinui" free hire and mooring piles	15,000
Renovate house by Board's staff	30,000
Navigation light and foghorn	65,000
Design, Supervision etc.	31,000
	<u>\$378,400</u>

This is 35% more than the original estimate. Of this \$378,400 approximately \$350,000 would be spent in this financial year.

A sum of \$280,000 has been included in the 1984/85 Programme of Works with \$160,000 at Items 57.110 and 57.130 ex Capital sources, and \$120,000 in the Maintenance Programme. An additional \$70,000 will need to be provided to enable the works to proceed this financial year.

Approvals

Approval from the Waitemata Harbour Maritime Planning Authority has been received. Application to the Ministry of Transport for approval under the Harbours Act has been made.

Recommendation

I therefore recommend that:-

1. Subject to the receipt by the Board of all relevant statutory approvals the tender of Precast Construction Ltd for the sum of \$220,900 subject to escalation be accepted.
2. Financial provision be made in the 1984/85 Works Programme for an additional expenditure of \$70,000 in the Maintenance Programme.

B.R. Le Clerc
CHIEF ENGINEER TO THE BOARD

16 May 1985

The Manager
Precast Construction Ltd
P.O. Box 42-021
AUCKLAND

Dear Sir

CONTRACT NO. 2500A - BEAN ROCKS
LIGHTHOUSE RECONSTRUCTION

Further to the letter of acceptance of this Contract from the Board's Secretary I have to advise you that the work cannot proceed until the Board is in receipt of Ministry of Transport approval, under Clause 178 of the Harbours Act. This approval is expected within approximately two weeks.

The advice to proceed with the work will be conveyed to you by my Construction Engineer, Mr Goord. He will supervise the work, administer the Contract and will be the "Engineer's Representative" in terms of Part 6.1 of the General Conditions. Please make all future communications in the normal course of the Contract through him.

Would you please now submit for approval the names of any Sub-Contractors you wish to employ during the course of the work. Two sets of the working documents are available from Mr Goord at his office in Tinley Street.

Yours faithfully

B.R. Le Clerc
CHIEF ENGINEER TO THE BOARD

RHW:JMH

c.c. Design Engineer: to advise Construction Engineer when
M.O.T. approval is obtained.
Construction Engineer: to notify Contractor to commence
work when advised by Design
Engineer.



Auckland Harbour Board

BUSINESS PAPER

SUB-COMMITTEE RE BEAN ROCKS

LIGHTHOUSE - CONTRACT NO.2500A

MONDAY 6 MAY 1985 AT 2.15 P.M.

MEMBERS OF SUB-COMMITTEE Mr H.L. Julian (Chairman),
Sir Lloyd Elsmore and Mr R.W. Carr
Messrs L.A. Manning and M.R. Mason
(co-opted)

Bean Rocks Lighthouse - Contract No.2500A

Reports of Acting General Manager and Chief Engineer thereon

1. Copy to D.E. please *over label*
2. (F)



Auckland Harbour Board

6 May 1985

The Chairman
Sub-Committee Re Bean Rocks Lighthouse
AUCKLAND HARBOUR BOARD

BEAN ROCKS LIGHTHOUSE - CONTRACT NO. 2500A

The attached report of the Chief Engineer dated 3 May 1985 lists and appraises eight tenders received following the re-advertising of the Contract based on revised Contract conditions.

The report identifies a shortfall of \$70,000 in finance already programmed within this financial year for the Project. However, the work needs to progress and provision should be made from Reserves.

I endorse the Chief Engineer's recommendations.

A handwritten signature in dark ink, appearing to read 'R. Cooper'.

R. Cooper
ACTING GENERAL MANAGER



Auckland Harbour Board

3 May 1985
Engr's file
758

The General Manager
AUCKLAND HARBOUR BOARD

BEAN ROCKS LIGHTHOUSE
CONTRACT NO. 2500A

The Board at its March 1985 meeting rejected all tenders for the Bean Rocks Lighthouse restoration and authorised the Chief Engineer to re-examine the Contract Documents and recall tenders with the objective of obtaining a more satisfactory offer.

The following alterations were made to the Contract Documents:-

1. An alternate foundation design was offered.
2. The Auckland Harbour Board Floating Crane "Hikinui" together with mooring piles and anchors was offered free for two eight hour periods to the successful tenderer.

Tenders were then recalled for:-

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... ..

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The estimate for the restoration of the lighthouse and the installation of a solar powered light and foghorn was \$280,000. With the hardwood for the tower purchased and using Precast Construction Ltd's tender price, this estimate is revised as follows:-

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Navigation light and foghorn	65,000
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	<u>\$378,400</u>

This is 35% more than the original estimate. Of this \$378,400 approximately \$350,000 would be spent in this financial year.

A sum of \$280,000 has been included in the 1984/85 Programme of Works with \$160,000 at Items 57.110 and 57.130 ex Capital sources, and \$120,000 in the Maintenance Programme. An additional \$70,000 will need to be provided to enable the works to proceed this financial year.

Approvals

Approval from the Waitemata Harbour Maritime Planning Authority has been received. Application to the Ministry of Transport for approval under the Harbours Act has been made.

Recommendation

I therefore recommend that:-

1. Subject to the receipt by the Board of all relevant statutory approvals the tender of Precast Construction Ltd for the sum of \$220,900 subject to escalation be accepted.
2. Financial provision be made in the 1984/85 Works Programme for an additional expenditure of \$70,000 in the Maintenance Programme.


B.R. Le Clerc
CHIEF ENGINEER TO THE BOARD

PLEASE REFER TO ENGINEERS

MICROFICHE NO. ENG. 471

FOR PREVIOUS 100 DOCUMENTS

758

3 May 1985

Regional Secretary of Transport
Ministry of Transport
Marine Division
Private Bag
AUCKLAND

ATTENTION: REGIONAL MARINE OFFICER

Dear Sir

BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

Approval is required under Section 178 of the Harbours Act 1950 for the reconstruction of Bean Rocks Lighthouse.

Accordingly I enclose 3 sets of Drawings E.2653/1 to 6, K.814/1 and E.1643/01 which have been approved by the Waitemata Harbour Maritime Planning Authority, the Board's Harbourmaster and Chief Engineer.

Your early consideration would be appreciated.

Yours faithfully

J.M. Halling
J.M. Halling
CHIEF ADMINISTRATIVE OFFICER
AND SECRETARY



AM:JMH

Enc. 3 sets Drawings E.2653/1 to 6
K.814/1
E.1643/01
Cheque for Processing Fee

Copy To: CHIEF ENGINEER
DESIGN ENGINEER

BAC



758

**Auckland
Harbour Board**

Auckland Harbour Board
1 Queen Street, Auckland, New Zealand
P.O. Box 1259, Auckland
Telephone 795-950, Telex: N Z 2705
Telegrams: Haboard, Auckland

Reference

30 April 1985

Precast Construction
PO Box 58107
EAST TAMAKI

Dear Mr Melsop

BEAN ROCKS LIGHTHOUSE -
RECONSTRUCTION
CONTRACT 2500A

Confirming telephone conversation between yourself
and Assistant Chief Engineer (Civil) of 30/4/85.

The crane hire periods for the "Hikinui" are from the time
the crane leaves the berth to the time it returns to the
berth. The two 8 hour periods that the Board provides free
of charge are on the same basis.

Yours faithfully

B.R. Le Clerc
CHIEF ENGINEER TO THE BOARD

LWJ:VLH

Waitemata Harbour
Maritime Planning Authority

Memorandum

To: CHIEF ENGINEER

Date: 18 APRIL 1985

From: CHIEF PLANNING OFFICER

60/26/202

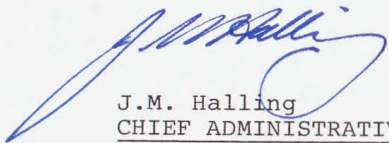
TOWN AND COUNTRY PLANNING ACT 1977
MARITIME PLANNING APPLICATION UNDER
SECTION 102A

Site Location: Bean Rocks, Waitemata Harbour

Proposal: Removal and renovation ashore of the
Bean Rocks Lighthouse and subsequent
repositioning on new foundations.

At its meeting on 26 March 1985 the proposals illustrated on Drawings E2653 and described in the Design Engineer's explanation dated 16 January 1985 were considered by the Authority and it was resolved that the works proposed would not require a notifiable application in terms of Section 102A of the Town and Country Planning Act 1977.

I enclose one copy of the plans stamped accordingly.

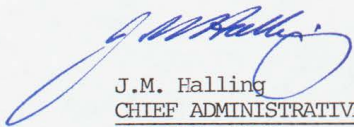


J.M. Halling
CHIEF ADMINISTRATIVE OFFICER
AND SECRETARY



Chief Engineer

X/ Please arrange preparation of letter and plans for progression of this matter now to Ministry of Transport for approval under Section 178 of the Harbours Act 1950.



J.M. Halling
CHIEF ADMINISTRATIVE OFFICER
AND SECRETARY

18 April 1985

Design Engr
X/ *Mr Jones please arrange* *Bee*
24/4

758

CHIEF ENGINEER

18 APRIL 1985

CHIEF PLANNING OFFICER

60/26/202

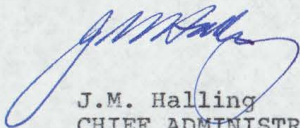
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MARITIME PLANNING APPLICATION UNDER
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Site Location: Bean Rocks, Waitemata Harbour

Proposal: Removal and renovation ashore of the
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dated 16 January 1985 were considered by the Authority and it
was resolved that the works proposed would not require a
notifiable application in terms of Section 102A of the Town
and Country Planning Act 1977.

I enclose one copy of the plans stamped accordingly.

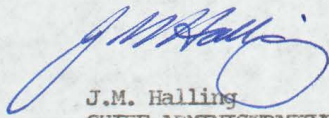


J.M. Halling
CHIEF ADMINISTRATIVE OFFICER
AND SECRETARY

RSG:tw

Enc.
Chief Engineer

Please arrange preparation of letter and plans for progression of this
matter now to Ministry of Transport for approval under Section 178 of
the Harbour Act 1950.



J.M. Halling
CHIEF ADMINISTRATIVE OFFICER
AND SECRETARY

18 April 1985

International Credit Services Ltd. Reports 17.4.85

Precast Construction Ltd.

Private Company. Incorporated 15.7.79.
Capital: \$10,000 being \$1.00 fully paid shares.
Main Shareholder: Ian Donald Mellsop
Nothing adverse recorded about the company.
last enquiry - 1981.

Mr Mellsop. previously involved in: VADISAL & MELLISOP
CONSTRUCTION LTD
Registered 1974, company placed in liquidation 28.4.79.
Had been judgements recorded against the company.

also previously involved in: SOUTH AUCK PRECASTING LTD
Registered 1975, company placed in liquidation 28.6.79
Had been judgements recorded against the company.

EATSON & FRANCIS CONTRACTORS LTD

Private Company. Incorporated 20.7.59
Registered Office Carbine Rd. Mt. Wellington.
Capital: \$12,000 being \$2 shares fully paid.
Shareholders/Directors: WILLIAM L. EATSON
MURRAY B. FRANCIS
Some collections recorded prior to 1977 but none since. Nothing adverse since 1977.

UNION ENGINEERING LTD

Head Office: Wellington.
Private Company. Incorporated 11.1.80
Capital \$50,000
Main Shareholder. Union Shipping Group Ltd
last enquiry 1983
Nothing adverse on record.



758
BEA

Auckland Harbour Board

Auckland Harbour Board
1 Queen Street, Auckland, New Zealand
P.O. Box 1259, Auckland
Telephone 795-950, Telex: N Z 2705
Telegrams: Haborad, Auckland

Reference

The Manager
Wiri Construction Limited
P.O. Box 76-267
MANUKAU CITY

17 April 1985

Dear Sir

CONTRACT NO. 2500A - BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

I have to acknowledge receipt of your tender for the above consideration and to advise you that the tender will be considered by my Board in due course.

Yours faithfully

c.c. Chief Engineer
Treasurer
Contract File

for J.M. Halling
CHIEF ADMINISTRATIVE OFFICER
AND SECRETARY

akb/GJW

- | | |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 1. Eatson and Francis Contractors Ltd
P.O. Box 14-173
<u>PANMURE</u> | 5. Union Engineering Ltd
P.O. Box 58-215
<u>AUCKLAND</u> |
| 2. McConnell Dowell Constructors Ltd
Private Bag
Newmarket
<u>AUCKLAND 2</u> | 6. R.M. Myers
18 Vienna Place
Birkenhead
<u>AUCKLAND 10</u> |
| 3. Green and McCahill (Contractors) Ltd
P.O. Box 12-443
<u>PENROSE</u> | 7. Precast Construction Ltd
P.O. Box 42021
Orakei
<u>AUCKLAND 5</u> |
| 4. Energy Construction Ltd
P.O. Box 12-784
<u>AUCKLAND</u> | |

flec

3. BEAN ROCKS LIGHTHOUSE: PROPOSED RENOVATION

In his report of 19 March 1985 the Chief Planning Officer referred to the proposal by the Auckland Harbour Board to renovate Bean Rocks Lighthouse in a manner that maintained the appearance of the original structure with only minor variations caused by the need to use modern materials and building techniques.

Because of the architectural and community significance of the lighthouse its permanent removal would be likely to detract from the amenities of the harbour. However, as it was proposed that the removal be only temporary in order to facilitate renovation of the structure it was considered that the work would not detract from the amenities of the harbour.

The work proposed would not result in any permanent interference with navigation or have any significant effect upon ecological or hydraulic conditions in the harbour.

Having regard to the criteria set out in Section 102A of the Town and Country Planning Act 1977 and the purpose of the application it was concluded that provided that the works were carried out in the manner proposed they would not be likely to detract from the amenities of the harbour.

The Chief Planning Officer therefore recommended that the proposal not require the consent of the Authority.

The Chairman moved, Mr O'Dwyer seconded -

That the report of the Chief Planning Officer be adopted.

CARRIED

~~Mr Jones~~ to see
for
1. D.E
2. File.

19 MAR 1985

16/9
758

BEAN ROCKS LIGHTHOUSE - CONTRACT No. 2500

The Chief Engineer in his report of 13 March 1985 advised the details of tenders received for the contract. He commented on contractual difficulties which could arise with one of the tenders in respect of the condition requiring the Board to provide the HIKINUI.

In the circumstances it was felt that tenders should be sought again using slightly modified documents to clarify crane conditions, alternatives for foundations, and to offer more flexibility to the Contractor. Depending on the tenders received, consideration should be given to the Board carrying out the work with its own forces.

He recommended that:

1. The contract specification be re-examined with the objective of obtaining a more satisfactory offer.
2. The Chief Engineer be authorised to recall tenders for Bean Rocks Lighthouse restoration.

The General Manager reported that in view of the tendered prices and the unsatisfactory proviso by the lowest tenderer, along with the opportunity that may be available to improve the cost of achieving these works, he endorsed the Chief Engineer's recommendations.

It was RESOLVED to recommend -

- (a) That the report be received.
- (b) That a Sub-Committee comprising the Chairman of the Board, the Deputy Chairman and the Chairman of the Works and Traffic Committee be authorised to accept a suitable tender as soon as practicable.

EXTRACT FROM MINUTES
ORDINARY MEETING OF BOARD

26 MAR 1985

In reply to a query from the Chairman on Item 7 Bean Rocks Lighthouse - Contract No. 2500, the Chief Engineer advised that he expected to readvertise for tenders shortly.

A/C/E (Civil): to arrange for revision of design & documentation, call tenders & report as soon as possible for acceptance by special Sub-Committee appointed, preferably by early May.

ADOPTED BY BOARD

26 MAR 1985



Auckland Harbour Board

13 March 1985
Engr's File
758

16/9

The General Manager
AUCKLAND HARBOUR BOARD

ITEM 7

BEAN ROCKS LIGHTHOUSE -
CONTRACT NO.2500

The Board at its October 1984 meeting approved the restoration of Bean Rocks Lighthouse at an estimated cost of \$280,000. This comprised replacing the foundation piles and leg structure, renovating the house and replacing the navigation light and fog signal.

The Chief Engineer was authorised to complete working drawings and to carry out the renovation of the structure. Accordingly, tenders were invited for removing the house to Buoys and Beacons yard, replacing the foundation piles and leg structure and then installing the house (renovated by others) on the new tower.

The tenders received are as follows:-

Green & McCahill	\$188,166	with tag	26 weeks
R.M. Myers	\$310,879		30 weeks
Engineer's Estimate	\$182,000		

Green & McCahill's tender was conditional on the Board providing the "Hikinui" and necessary mooring piles. This condition was considered to be unacceptable as it was too indefinite and could easily lead to contractual complications over crane availability. Green & McCahill were therefore given the option of either negotiating a maximum number of hours that the "Hikinui" would be provided free, above which normal hire rates would apply, or removing the tag and providing a price which allowed for all crane hire. As a result they have now revised their tender to \$247,950 accepting full responsibility for the use of "Hikinui" but are not willing to negotiate on the first option.

The increase in tender price is equivalent to approximately 16 days crane hire. 5 days is considered realistic.

In the circumstances it is felt that tenders should be sought again using slightly modified documents to clarify crane conditions, alternatives for foundations and to offer more flexibility to the Contractor. Depending on the tenders received, consideration should be given to the Board carrying out the work with its own forces.

... ..

Recommendation

It is recommended that:

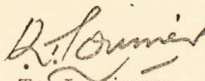
1. The contract specification be re-examined with the objective of obtaining a more satisfactory offer.
2. The Chief Engineer be authorised to recall tenders for Bean Rocks Lighthouse restoration.



B.R. Le Clerc
CHIEF ENGINEER TO THE BOARD

The Chairman
Works & Traffic Committee
AUCKLAND HARBOUR BOARD

In view of the tendered prices and the unsatisfactory proviso by the lowest tenderer along with the opportunity that may be available to improve the cost of achieving these works, I endorse the Chief Engineer's recommendations.



R. T. Lorimer
GENERAL MANAGER

13 March 1985

4

AUCKLAND HARBOUR BOARD

CONTRACT NO. 2500A

BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

Index Sheet

The General Conditions of Tender and Contract for this Contract shall be the New Zealand Standard Specification "Conditions of Contract for Building and Civil Engineering Construction", N.Z.S. 623:1964 and amendments thereto, except as amended or extended in the First Schedule - Special Conditions of Contract.

CONTENTS OF BOUND DOCUMENTS

1. Index Sheet.
2. First Schedule - Special Conditions of Contract.
3. Second Schedule - Form of Agreement for Fulfilment of Contract.
4. Third Schedule - Form of Bond.
5. Insurance Contract Works Policy.
6. Specification.
7. Tender Form.
8. Schedule of Quantities.
9. Schedule of Daywork Rates.
10. Schedule of Current Market Prices.

DRAWINGS

The above documents to be read in conjunction with Auckland Harbour Board Drawings No.E.2653/1-6, K.814, E.1643/01.

Drawings of existing lighthouse are available on request.

TENDERERS TO NOTE:

Tenderers are requested to return documents 7, 8, 9 and 10 with their tender.

AUCKLAND HARBOUR BOARD

CONTRACT NO.2500A

BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

First Schedule - Special Conditions of Contract

Amendments and/or extensions to the General Conditions of Contract N.Z.S. 623 (paragraph numbers refer to the appropriate Clause).

DEFINITIONS

1.1. "Engineer" shall mean the person who is for the time being Chief Engineer to the Board.

"Board" shall mean the Auckland Harbour Board.

TENDER

2.1.1. Submission of Tender

Tenders will close at the office of the Secretary, Auckland Harbour Board, 9th Floor, Air New Zealand House, 1 Queen Street, at noon on Tuesday, 16 April 1985. Tenders shall be enclosed in a sealed envelope addressed to the Chairman, Auckland Harbour Board and marked on the outside " Tender for Contract No.2500A Bean Rocks Lighthouse Reconstruction."

2.1.5. Type of Contract and Schedule of Quantities

This Contract is for a lump sum price and except for the piles is not subject to remeasurement and Part 2.1.5 of the General Conditions applies. For the purpose of Progress Payments however, Tenderers shall complete the attached Schedule showing how the lump sum is made up.

2.3.1. Deposit with Tender shall be \$1,000.00.

2.7. The lowest or any tender will not necessarily be accepted. No tender will in any event be accepted until the Principal is in receipt of all necessary statutory approvals authorising the project to proceed.

3.1. A surety is required and shall be a recognised Trading Bank or Insurance Company.

3.2 Bond shall be executed for 10% of the Contract Sum.

... ..

8.3

General Obligation

The Contractor will be required, as soon as practicable after acceptance of his Tender, to submit to the Engineer for his approval, a programme showing the order in which, and the methods by which he proposes to carry out the works.

INSURANCES

The Principal at his own cost has effected Contractors All Risks and Public Liability Insurance

Any excesses or deductibles under these policies shall be borne by the Contractor. The Contractor may at his sole discretion obtain other or additional insurance but the cost of same shall be borne solely by the Contractor.

In effecting Contractors All Risks and Public Liability Insurance the Employer is not to be taken as:-

- (a) Warranting or representing that it has insured the Contractor against liability or against loss or damage other than to the extent that any claim in terms of the Policies may be paid by the Insurer thereof.

and

- (b) Relieving the Contractor of any responsibility, duty or obligation imposed under this Contract.

COMMENCEMENT TIME AND DELAYS

11.3. Tenderers shall nominate on the Tender Form the time, in weeks, within which they are prepared to guarantee completion of the works.

11.6.1 Liquidated damages shall be \$250.00 per week

MAINTENANCE

12.1. The period of maintenance for the work carried out by the Contractor shall be three months.

CONTINGENCY SUM

16.3. The amount of the Contingency Sum which must be included in the Tender is \$30,000 as set out in the Schedule of Quantities.

CERTIFICATES AND PAYMENTS

17.2.1. Retention in addition to Liens Act requirement shall be at the rate of 5%.

17.3.1. Plant advances shall not be made.

COST FLUCTUATIONS

22.1. Cost fluctuations shall apply provided a Schedule of Current Market Rates is submitted with the Tender.

22.2 This clause shall not apply to this Contract.

AUCKLAND HARBOUR BOARD

SECOND SCHEDULE

FORM OF AGREEMENT FOR FULFILMENT OF CONTRACT

Contract No. _____ for _____

AGREEMENT made this _____ day of _____ 19 _____

BETWEEN _____ (hereinafter called the Contractor) of the one part and the Auckland Harbour Board (hereinafter called the Board) of the other part and

WHEREBY it is agreed as follows:-

1. The Contractor shall do, execute, provide, deliver, construct, finish and maintain all and singular the works supplies services and things mentioned in the annexed documents which shall be deemed to form and be read and construed as part of this agreement and shall comprise the following:-

- (a) the Tender, the letter of acceptance and any other relevant letters.
- (b) the Drawings.
- (c) General Conditions of Contract.
- (d) the Specification.
- (e) Bill of Quantities.
- (f) Schedule of Current Market Rates.
- (g) the Special Conditions of Contract.
- (h) the Bond.
- (i) Schedule of Daywork Rates.

2. The Board shall at the times, in the manner and subject to the terms conditions and stipulations contained in this agreement pay the sum of _____

dollars (\$ _____) or such greater or lesser sum as according to this agreement shall become payable by the Board to the Contractor.

IN WITNESS whereof these presents have been signed by the parties the day and year above written.

Contractor (Reg. Company)

The Common Seal of _____
was hereto affixed in the presence of _____

Contractor (Individual)

Signed by the said _____

Address _____

Signature _____

in the presence of (Witness) _____

Address _____

Occupation _____

Signature _____

The Common Seal of the Auckland Harbour Board was hereto affixed by order of the Board at a meeting of the Board held on the _____ day of _____ in the presence of

_____ Chairman

_____ Member

_____ Secretary

4

AUCKLAND HARBOUR BOARD

THIRD SCHEDULE

FORM OF BOND

Contract No. _____ for _____

KNOW ALL MEN BY THESE PRESENTS that _____

of _____ (hereinafter called the Contractor)

and _____

of _____ (hereinafter called the Surety)

are jointly and severally bound to the Auckland Harbour Board (hereinafter called the Board) in the sum of _____

dollars (\$ _____) for the payment of which the Contractor and the Sureties bind themselves, their successors and assigns jointly and severally by these presents.

Executed and dated this _____ day of _____ 19 _____

WHEREAS the Contractor by an Agreement made between the Board of the one part and the Contractor of the other part has entered into the Contract described above (hereinafter called "the said Contract") for the construction completion and maintenance of certain works as therein mentioned in conformity with the provisions of the said Contract.

NOW THE CONDITION of the above-written bond is such that if the Contractor shall duly perform and observe all the terms provisions conditions and stipulations of the said Contract on the Contractors part to be performed and observed according to the true purport intent and meaning thereof prior to the commencement of the period of maintenance or if on default by the Contractor the Surety shall satisfy and discharge the damages sustained by the Board, thereby up to the amount of the above written Bond then this obligation shall be null and void but otherwise shall be and remain in full force and effect but no alteration in terms of the said Contract made by Agreement between the Board and the Contractor or in the extent or nature of the Works to be constructed and completed and maintained thereunder and no allowance of time by the Board or the Engineer under the said Contract nor any forbearance of forgiveness in or in respect of any matter or thing concerning the said Contract on the part of the Board or the said Engineer shall in any way release the Surety from any liability under the above written Bond.

Contractor (Reg. Company)

The Common Seal of _____
was hereto affixed in the presence of _____

Contractor (Individual)

Signed by the said _____

Address _____

Signature _____

In the presence of (Witness)

Address _____

Occupation _____

Signature _____

Surety (Reg. Company)

The Common Seal of _____
was hereto affixed in the presence of _____



**Auckland
HarbourBoard**



X

Memorandum

To: CHIEF ENGINEER

Date: 1 March 1985

From: CHIEF ADMINISTRATIVE OFFICER AND SECRETARY

CONTRACT 2500 - BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

The following tenders received in respect of the above Contract are referred for your further action:


- 1. Green & McCahill Ltd \$188,166 + CRANE
- 2. R. M. Myers \$310,874

J. M. Halling
CHIEF ADMINISTRATIVE OFFICER
AND SECRETARY



① C.E. Rec. 15/7

② ~~A.C. (initials)~~


Auckland
Harbour Board

Auckland Harbour Board
1 Queen Street, Auckland, New Zealand
P.O. Box 1259, Auckland
Telephone 795-950, Telex: N Z 2705
Telegrams: Haboard, Auckland

Reference

1 March 1985

The Manager
Green & McCahill (Contractors) Ltd
P.O. Box 12-443
AUCKLAND



Dear Sir

CONTRACT No. 2500 - BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

Receipt of your tender in respect of the above contract is acknowledged. You will be advised further once the Board has given consideration to all tenders received.

Yours faithfully



J. M. Halling
for CHIEF ADMINISTRATIVE OFFICER
AND SECRETARY

Also to: R. M. Myers
13 Vienna Place
Birkenhead
AUCKLAND 10

GJW:m1

↓
Copy for Chief Engineer

Blec



GREEN & McCAHILL (CONTRACTORS) LTD.

374 CHURCH ST, PENROSE, P.O. BOX 12-443, N.Z. PHONE 595-005, TEL. GREENMAC, TELEX 2559.

28 February 1985

The Chairman
Auckland Harbour Board
AUCKLAND

Dear Sir,

ref: Contract No 2500 - Bean Rock Lighthouse Reconstruction
Conditions of Tender

We submit the following conditions of tender to qualify the tender form and schedule of quantities.

1) Hire of A.H.B Floating Crane 'Hikinui'

We have been unable to accurately estimate the precise number of hours the 'Hikinui' will be required to remove the lighthouse and replace the tower and lighthouse on the new foundations. Thus, we have assumed that the Auckland Harbour Board will provide the 'Hikinui' free of charge. Our estimated usage is 16 hours. We have assurances from your Traffic Manager that 'Hikinui' can remove and replace the lighthouse.

2) A.H.B. supplied materials

We assume the Australian hardwood supplied will comply with clause 13.4 and that the surface of the timber will need no treatment to receive the specified paint finish.

3) Use of A.H.B. property

We have assumed an area in the Buoys and Beacons yard will be available for the purpose of assembling the new lighthouse tower, free of charge.

4) Contract Period

We believe a 16 week contract period will be sufficient time to complete this work. This period is dependent, however, on the time required by A.H.B. staff to refurbish the lighthouse and on the availability of specialist equipment. We have assumed the contract would be awarded by the end of March 1985. Any delays to this award date may also affect the contract period.

5) A.H.B. services

We assume that all services on the lighthouse will be disconnected and re-connected by A.H.B. staff.

2/....

GREEN & McCAHILL (CONTRACTORS) LTD.

- 2 -

We thank you for this opportunity to tender for this project.

Yours faithfully,
GREEN & McCAHILL (CONTRACTORS) LTD



A.A. Winwood
Contracts Manager

AUCKLAND HARBOUR BOARD
CONTRACT NO. 2500
BEAN ROCKS LIGHTHOUSE RECONSTRUCTION



Tender Form

To: The Chairman
AUCKLAND HARBOUR BOARD

Sir,

Having examined the Specification, Drawings, Schedule of Quantities and Conditions of Contract for the abovenamed works we offer to execute and perform the several works described and alluded to for the sum of One hundred & eighty-eight thousand, one hundred & sixty-six dollars.. or such other sum as may be ascertained in accordance with the Conditions of Contract.

We annex hereto the Schedule of Quantities upon which this Tender is based and calculated, and a letter setting out the conditions of this tender.

We undertake to complete the works within ..16... calender weeks of the date of the Engineer's order to proceed, subject to A.H.B completion of lighthouse refurbishment and availability of specialist equipment.

Should this Tender be accepted we undertake to execute a Contract and Bond embodying the aforesaid Specification and Conditions within 28 days of receipt of the same from the Board.

We acknowledge that unless and until a formal Contract Agreement is prepared and executed, this Tender together with the written acceptance thereof shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any Tender you may receive.

We enclose herewith a cheque payable to the Auckland Harbour Board for \$ 1,000.00. Our surety will be Westpac, Penrose Branch.

Signed: *Alfred Wood*.....
Name of Company: GREEN & McCAHILL
(CONTRACTORS) LTD.....
Address: P. O. BOX 12-443,.....
AUCKLAND.....

Date: 28.2.85..... Telephone: 595-005.....

GREEN & McCAHILL CONTRACTORS LTD
P.O. BOX 12443 PENROSE.

✓

AUCKLAND HARBOUR BOARD

CONTRACT NO. 1586

BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

②

Tender Form

To: The Chairman
AUCKLAND HARBOUR BOARD

Sir,

Having examined the Specification, Drawings, Schedule of Quantities and Conditions of Contract for the abovenamed works we offer to execute and perform the several works described and alluded to for the sum of 1,312,874..... or such other sum as may be ascertained in accordance with the Conditions of Contract.

We annex hereto the Schedule of Quantities upon which this Tender is based and calculated.

We undertake to complete the works within 30.... calender weeks of the date of the Engineer's order to proceed.

Should this Tender be accepted we undertake to execute a Contract and Bond embodying the aforesaid Specification and Conditions within 28 days of receipt of the same from the Board.

We acknowledge that unless and until a formal Contract Agreement is prepared and executed, this Tender together with the written acceptance thereof shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any Tender you may receive.

We enclose herewith a cheque payable to the Auckland Harbour Board for \$

Signed: R M Myers
Name of Company: R M MYERS
Address: 18 VIENNA PLACE
BIRKENHEAD

Date: 28-2-85 Telephone: 487314

CONTRACT WORKS POLICY

BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

Prepared By:

Bowring Burgess Marsh & McLennan Ltd

Auckland

February 1984

AUCKLAND HARBOUR BOARD

CONTRACT WORKS INSURANCE

Whereas the Insured named in the Policy hereto has made to the Insurers a written proposal.

Now this Policy of Insurance witnesseth that in consideration of the Insured having paid or agreed to pay to the Insurers the agreed premium and subject to the exclusions provisions and conditions contained hereon or endorsed hereon the Insurers will indemnify the Insured in the manner and to the extent hereinafter provided.

THE SCHEDULE

INSURED

AUCKLAND HARBOUR BOARD AS PRINCIPAL ALL CONTRACTORS
SUBCONTRACTORS AND SUPPLIERS TO THE PRINCIPAL

for their respective rights and interests.

PREMIUM

Rate as agreed.

CONTRACT

All supply, dismantling, removal, construction, erection, repair, rebuilding and other activities arising in connection with Bean Rocks Lighthouse Reconstruction as generally defined in the Contracts between the Insured and including all works not described in the Contracts but which are deemed necessary by any of the Insured.

PERIOD OF COVER

The liability of the Insurers shall commence on _____
and continue to _____ and then to be
followed by period of maintenance of _____ months.

The attachment of this Policy is directly the Insured becomes responsible for property forming part of or to be incorporated in the Contract whether at the Contract site or elsewhere in New Zealand including whilst in transit and shall continue until the whole of the Contract is completed and handed over to the Principal, the cover and consequently the liability then ceases except in so far as liability arising during the period of maintenance.

The Insurance shall expire on the dates specified to the Insurers, but if the Contract or maintenance operations included in the Insurance are not completed within the time specified, the Insurers agree to extend the period upon payment of additional premium appropriate to any additional risk which the Insurers have thereby assumed at a rate to be agreed.

SECTION (1)

PROPERTY AND SUMS INSURED

	<u>Sum Insured</u>
The Contract including Temporary Works, and) all materials and goods used or to be used in) connection therewith (which shall include) existing property of the Principal), the) Property of the Insured or whilst in the) possession of the Insured or for which the) Insured are responsible on or adjacent to) site of works or in temporary storage offsite,) or whilst in transit all within New Zealand)	

THE DEDUCTIBLE

The amount of deductible applicable to destruction loss or damage arising from any cause except fire, lightning or explosion is \$2,000 however any loss or damage arising during any one period of 72 hours caused by earthquake, storm, tempest or flood shall be deemed to be a single event and therefore to constitute one loss with regard to the sum insured and the deductible.

SECTION (2)

Limit of Liability any one occurrence	\$5,000,000
Deductible	\$ 2,000

SECTION I

MATERIAL DAMAGE

The Insurers hereby agree with the Insured that if at any time during the period of insurance or during any further period of extension thereof, the property or any part thereof described shall suffer any physical loss or damage from any cause, other than those specifically excluded, in a manner necessitating repair or replacement, the Insurers will pay or make good all such loss or damage up to an amount not exceeding the total sum expressed.

The Indemnity by this Section shall extend to include:-

(a) Professional Fees

All Architects, surveyors, legal, consulting engineers and all other fees and similar costs (which shall include Clerk of Works and Inspectors salaries and wages) for the replacement and/or reinstatement of loss and/or damage.

(b) Removal of Debris

All costs and expenses incurred in removing debris and/or wreckage, consequent upon loss of or damage to the property insured including the cost of dismantling or demolition of any of the property insured no longer useful for the purpose of the contract, and costs incurred in shoring up or propping and regaining access to original working conditions.

(c) Expediting Expenses

Additional expenses including but not limited to extra charges, express carriage, air freight and travel by insured employees and/or additional labour where necessarily incurred to rectify or contain loss or damage arising from any perils insured herein.

(d) Plans and Documents

The costs incurred in re-writing or redrawing of plans drawings or other contract documents lost destroyed or damaged as a result of a peril insured hereunder wherever or whenever such loss destruction or damage shall occur.

EXCLUSIONS

The Insurers shall not, however, be liable for:-

- (1) The deductible stated to be borne by the Insured in any one occurrence;
- (2) Consequential financial loss of any kind or description whatsoever including penalties, losses due to delay, lack of performance, loss of contract;
- (3) Loss or damage caused by
 - (a) normal wear and tear
 - (b) defective workmanship material or design.

Provided always that this exclusion shall be limited to that part of the machine structure or works immediately affected and shall not extend to other parts of the machine structure or works lost or damaged in consequence thereof.

And provided further that this exception shall not apply where fire or explosion ensues.

- (4) Loss of or damage to currency, stamps, deeds, evidence of debt, notes, cheques, securities for money, or registered motor vehicles.
- (5) Loss discovered only at the time of taking a normal inventory.
- (6) Loss of or damage to contractors plant, machinery, tools and equipment.
- (7) This policy shall not cover "Earthquake Damage" but this exclusion shall not apply to:
 - a) Any damage other than "Earthquake Damage" resulting from or arising from earthquake or "Earthquake Fire".
 - b) Any damage (whether accidental or not) occurring as the result of measures taken to avoid the spreading or otherwise to mitigate the consequences of any damage other than "Earthquake Damage".
 - c) The costs of demolition and removal of debris for which indemnity is provided herein.
 - d) Damage to the following types of Property forming part of the work as described under the Schedule:

Any land, any road, street or path, any railway track or pole, or any tramway track or pole, any bridge, viaduct, either completed or in course of construction, or any bridge or viaduct, any tunnel or cutting, any retaining wall, dam, breakwater, mole, groyne, fence or wall, any drain or channel, any reservoir, swimming bath, water tank (other than a water tank installed as part of the water supply to any dwelling or farm building), water tower or septic tank, any water or gas reticulation pipe (other than which forms a structural part of any building), any electric supply, telegraph or telephone pole, line or cable, any mine or quarry or any explosives.

In the interpretation of this exclusion No. 7 to this Policy, terms and expressions used in this exclusion which are defined in the Earthquake and War Damage Act 1944 shall be given the meanings assigned to them in that Act.

SPECIAL PROVISIONS

1. In the event of any loss or damage the basis of any settlement under this Section shall be:
 - (a) in the case of any damage which can be repaired - the cost of repairs necessary to restore the property to its condition immediately before the occurrence of the damage provided such cost does not exceed the replacement value,
 - OR
 - (b) in the case of a total loss, the actual replacement value of the property will be paid, provided always that the provisions, and conditions have been complied with.

The cost of any temporary repairs will be borne by the Insurers where reasonably and necessarily incurred.

All damage which can be repaired shall be repaired but if the cost of repairing any damage equals or exceeds the value of the insured item immediately before the occurrence of the damage the settlement shall be made on the basis provided for in (b) above.

The Insurers will not be liable for the cost of any alterations additions and/or improvements where the effect of these alterations, additions and/or improvements increases the cost of repair or replacement except where such additional costs are necessary to comply with any Act of Parliament or any Regulations under or framed in pursuance of any such Act or with requirements of any Municipal or Local Authority.

2. If during the Period of Insurance the actual total Contract price shall be in excess of the original Contract price then the sum insured shall be deemed to be increased by the amount of such excess but not exceeding 20% of the sum insured as shown in the Policy.

The Insured shall within a reasonable time after the completion of the Contract to which the Insurance applies, furnish to the Insurers a declaration of the total Contract price as finally measured (including the cost of service buildings and facilities).

Premium shall be finally adjusted on this basis after taking into account the deposit premium paid at inception.

REINSTATEMENT OF DAMAGE AUTHORISATION APPLYING TO SECTION I

In the event of a claim arising and the Insured completing procedures set out in General Condition (4), repairs or replacement of any minor damage may be carried out up to \$10,000. In all other cases a representative of the Insurers shall have the opportunity of inspecting the loss or damage before any repairs or alterations are effected. Nothing herein shall prevent the Insured from taking such steps as are necessary for the progress of the Contract.

SECTION II

THIRD PARTY LIABILITY

The Insurers will, subject to the exceptions and conditions hereinafter mentioned:-

- A. Indemnify the Insured or pay on behalf of the Insured any sum or sums which the Insured shall be obligated to pay by reason of liability:
- (a) imposed upon the Insured by law,
 - or
 - (b) assumed under contract or agreement
- for damages on account of:
- (i) Personal injuries
 - (ii) Property Damage
- caused by an occurrence happening during the Period of Insurance.
- B. Defend in the name of and on behalf of the Insured any claim or suit against the Insured to recover damages on account of such bodily injuries and/or damage to or destruction of property as aforesaid.
- C. Pay, in addition to the limits of liability expressed
- (i) All expenses incurred by or with the permission of Insurers for investigation, negotiation and defence of claims and suits;
 - (ii) All expenses incidental to the appeal from any judgement against the Insured subject to the consent of Insurers and all costs taxed against the Insured in any suit for damages on account of any judgement in such suit resulting from such appeal.

LIMIT OF LIABILITY

\$5,000,000 any one occurrence/unlimited in the period of insurance.

DEDUCTIBLE

The amount of the deductible applicable in respect of each accident or series of accidents arising out of one event \$2,000.

DEFINITIONS

- A. The terms "Property Damage" wherever used herein shall mean loss of or direct damage to or destruction of tangible property (other than property owned by the Named Insured).
- B. The term "Damages" includes damages for death and for care and loss of services resulting from personal injury and damages for loss of use of property resulting from property damage.
- C. The term "Vehicle", wherever used herein, shall mean a land motor vehicle, trailer or semi-trailer.
- D. The term "Occurrence" wherever used herein shall mean an accident or a happening or event or a continuous or repeated exposure to conditions which unexpectedly and unintentionally results in personal injury or property damage during the policy period. All such exposure to substantially the same general conditions existing at or emanating from one premises location shall be deemed one occurrence.

EXCLUSIONS TO SECTION II

The indemnity granted by this Section shall not apply to nor include:-

- 1. Liability for bodily injury sustained by any person arising out of and in the course of employment by the Insured under a contract of service or apprenticeship with the Insured.
- 2. Liability for claims in respect of loss of or damage to property owned, leased, occupied or used by, or in the care, custody or control of the Insured, provided that where the Contract works consist of alterations and/or extensions, repairs replacements or additions, servicing or the like whether wholly or in part, then this exclusion shall be deemed not to apply to the existing structure or any other Third Party Property (other than the Contract works described in the Schedule) on or about the Contract site.
- 3. Liability caused by vehicles registered for general road use except whilst such vehicles are in use on the Contract site for the purposes of this Contract or prior agreement of the Insurers having been obtained.

SPECIAL CONDITIONS APPLYING TO SECTION II

1. NOTICE OF LOSS

The Insured shall, upon the happening of any occurrence likely to give rise to a claim under this section of this insurance, and/or upon receipt by the Insured of any notice of any claim or any other subsequent proceedings, give notice in writing with full particulars to the Insurers as soon as possible.

The Insured shall co-operate with the Insurers in the defence of claims suits and in prosecuting appeals and upon the Insurers' request shall attend hearings and trials, and shall assist in effecting settlements, securing and giving evidence, obtaining the attendance of witnesses, and in the conduct of suits. The Insured shall not, except at his own cost, voluntarily make any payment, assume any obligation nor incur any expense.

The Insured shall not repudiate liability, negotiate or make any admission, offer, promise or payment in connection with an occurrence or claim without the written consent of the Insurers.

2. THE INSURED

The word "Insured" shall be deemed to include any Partner, Director, Executive Officer or any employee thereof active within the scope of his duties as such as related to the Insured Contract.

3. CROSS LIABILITIES

This Indemnity extends to indemnify each of the Insured separately in the same manner and to a like extent as though separate policies had been issued in their separate names. In particular (but without limiting the generality of the foregoing) the indemnity shall subject to the terms, conditions and exceptions of the policy indemnify each of the insured in respect of claims made by the other or by servants or agents of the other. However, each Insured shall be separately subject to the terms exceptions and conditions of the Policy in the same manner and to a like extent as though separate policies had been issued to each of the said Insured and the Insurers hereby agree to waive all rights of subrogation or action which they may have or acquire against any of the aforesaid Insured's arising out of any event or occurrence in respect of which any claim is made hereunder.

MEMORANDA

Memo 1 Destruction of Sound Property

It is understood and agreed that in the event of total or partial damage or destruction to the Property Insured, the destruction of sound property necessary for the replacement and reinstatement of the building or structure is covered.

Memo 2 Partial Occupation

Notwithstanding anything contained in the Policy to the contrary this insurance shall continue at premium and terms to be agreed should the Principal or any Tenant or other persons authorised by the Principal enter into occupation of any stage of the works or any portion thereof before completion of the Contract.

Memo 3 Automatic Reinstatement of Loss

It is understood and agreed that in the event of loss or damage by any of the perils insured against to the property within described and in the absence of written notice by the Insurers or the Insured to the contrary, the amount of insurance cancelled by loss is to be automatically reinstated as and from the date of loss the Insured undertaking to pay such premium as may be required for such reinstatement from that date.

Memo 4 Deductible Sections I and II

It is understood and agreed that in the event of a claim under Section I and II arising from one source or original cause the amount of the Deductible shall be limited to the higher of the Deductibles under Section I and II otherwise applicable.

Memo 5 Sue and Labour

In the case of any loss or misfortune it shall be lawful for the Insured, their Factors, Servants and Assigns to sue, labour and travel for, in and about the Defence and safeguard of their interests and to incur any expenses in efforts to avert or minimise a loss which may fall under this policy, the charges whereof will constitute a recovery under this Policy.

GENERAL EXCLUSIONS - APPLICABLE TO ALL SECTIONS OF THIS POLICY

The Insurers will not indemnify the insured in respect of loss, damage or liability directly or indirectly caused by or arising out of:-

(a) War, invasion, act of foreign enemy, hostilities (whether war be declared or not), civil war, rebellion, revolution, insurrection, mutiny, military or usurped power, or malicious persons acting on behalf of or in connection with any political organisation, confiscation, commandeering, requisition or destruction of or damage to property by or order of the government de jure de facto or by any public authority.

(b) (i) Loss of or damage to any property whatsoever or any loss or expenses whatsoever resulting or arising therefrom or consequential loss;

(ii) any legal liability of whatsoever nature;

directly or indirectly caused by or contributed to by or arising from

(a) nuclear weapons material or ionising radiations or contamination by radioactivity from any nuclear fuel or from any nuclear waste from the combustion or nuclear fuel.

(b) wilful act or wilful negligence of the Insured. Notwithstanding the above it is agreed that wilful act or wilful negligence by employees of an Insured shall not be deemed within the above exclusion except in so far as such acts or negligence are with the Insured's knowledge or consent.

GENERAL CONDITIONS

- 1) The due observance and fulfilment of the terms of this Policy insofar as they relate to anything to be done or complied with by the Insured shall be a condition precedent to any liability of the Insurers to make any payment under this Policy.
- 2) The Insured shall promptly notify the Insurers in writing of any material change in the risk insured hereunder; the scope of cover and/or the premium shall, if necessary, be adjusted accordingly.

- 3) Representatives of the Insurer's shall at any reasonable time have access to the site or premises and to all pertinent data, documents, drawings etc., and shall have the right to inspect any property insured.
- 4) In the event of any occurrence which might give rise to a claim under the Policy, the Insured shall:-
 - a) Notify the Insurers as soon as possible by telephone as well as in writing, giving an indication as to the nature and extent of loss or damage;
 - b) take all steps within his power to minimise the extent of the loss or damage;
 - c) preserve the damaged parts and make them available for inspection by the Adjusters/Insurers;
 - d) furnish all such information and documentary evidence as the Adjusters/Insurers may require;
 - e) inform the Police authorities in case of loss or damage due to theft or burglary.
- 5) The Insured shall at the expense of the Insurers do and concur in doing the permit to be done all such acts and things as may be necessary or required by the Insurers in the interest or any rights or remedies, or of obtaining relief or indemnity from parties (other than those insured under this Policy) to which the Insurers shall be or would become entitled or subrogated upon their paying for or making good any loss or damage under this Policy, whether such acts and things shall be or become necessary or required before or after the Insured's indemnification by the Insurers.
- 6) This Policy shall in all respects be read and construed and shall operate as a New Zealand Policy in conformity with the laws of New Zealand.
- 7) If a claim is in any respect fraudulent, or if any false declaration is made or used in support thereof, or if any fraudulent means or devices are used by the Insured or anyone acting on his behalf to obtain benefit under this Policy all benefit under this Policy shall be forfeited.
- 8) A breach of any Conditions contained herein by one of the named Insured shall not prejudice any other Insured's interests in this policy provided notice in writing by given to Insurers immediately upon such breach coming to the knowledge of any other Insured.

AUCKLAND HARBOUR BOARD

CONTRACT NO.2500A

BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

Specification

1. EXTENT OF CONTRACT:

The Contractor shall supply all labour, material, (except for the Australian hardwood for the tower), plant and other things necessary for the carrying out and completion of the works as shown on the accompanying Drawings and as described herein, in accordance with this Specification, the General Conditions of Contract and to the entire satisfaction of the Engineer.

2. GENERAL CONDITIONS

The General Conditions of Contract N.Z.S. 623:1964 shall be read with and included in this Specification.

3. TENDERERS TO INSPECT SITE

The Contractor shall be held to have satisfied himself before tendering, by personal inspection of the site, as to the accuracy of the Specification, Drawings, Schedules etc., or any other information of the kind supplied to Tenderers. He shall also be held to have satisfied himself as to the feasibility of constructing works of the kind and in the manner specified and as to all other matters which can in any way influence his Tender, as no allowance will be made or compensation paid on account of any incorrect or insufficient information on any point and he is further required to inform himself completely of every circumstance connected with the work and to provide in his Tender for every contingency that may arise.

4. MAINTENANCE OF WORKMANSHIP

All works included in this Contract shall be maintained at the specified standard of finish for a period of three months from the date of issue of the Engineer's Certificate of Substantial Completion.

5. STANDARD OF WORKMANSHIP

All construction and maintenance shall be carried out in a workmanlike manner to the entire satisfaction of the Engineer and any minor work not specified, but necessary to the completion of the Contract in accordance with the letter and spirit of the Specification, shall be carried out by the Contractor as if it had been so included.

6. SUPERVISION

The Contractor shall employ a competent and experienced foreman to supervise the work on his behalf and to whom, in the Contractor's absence, instructions may be given by the Engineer.

7. SURVEYING AND SETTING OUT

The Contractor shall be responsible for all setting out of the work in accordance with information supplied by the Engineer and/or shown on the Drawings. The provisions and stipulations set out in Clause 8.10.1 to 8.11 inclusive, of the General Conditions of Contract N.Z.S. 623, shall apply.

8. DESCRIPTION OF WORK

The work to be carried out in this Contract includes the following:-

1. The removal of the lighthouse by water transport to the Board's Buoys and Beacons site at Beaumont Street. Renovation of the lighthouse shall be carried out by others.
2. The demolition and disposal of existing tower and piles.
3. The construction of pile foundation.
4. The construction of a new tower.
5. The transportation and installation of the renovated house on new tower.

9. ALTERNATIVE DESIGN

The Contractor may submit alternate designs, for the construction of the foundation structure, for consideration.

10. WORKS AREAS

All enquiries for works area on Board property are to be directed to the Traffic Manager, Ferry Building, Quay Street.

11. ELECTRICITY SUPPLY AND TOILETS

The Contractor shall make his own arrangements with the Auckland Electric Power Board for any electricity supply he may require. He shall be responsible for the supply of all materials for and the installation of all cables, switchgear etc., from the point of supply to where power is required.

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12. FLOATING CRANE

The Auckland Harbour Board Floating Crane "Hikinui" will be available, subject to port commitments, for two 8 hr periods free of charge. The necessary mooring piles and anchors for these 2 periods will also be placed at Board's cost.

Drawing E.1643/01 indicates the closest position that the "Hikinui" can come to Bean Rocks Lighthouse. At this reach the crane is capable of lifting 82.5 tonnes at the centre of the lighthouse.

Any further use of the floating crane will be in accordance with the Traffic Manager's conditions of hire.

The present hire rates are:-

\$392 per hr	Ordinary Time
\$418 per hr	Time and a Half
\$455 per hr	Double Time
\$492 per hr	Double Time and a Half
\$527 per hr	Treble Time

Further information concerning additional tackle etc., may be obtained by calling A.H.B. Traffic Department on 795-950 Ext. 799.

13. SUPPLY OF TIMBER

1. Australian Hardwood

The Contractor shall take delivery of Australian hardwood timber at the Principal's Halsey Street Store. The timber will be loaded into the Contractor's vehicles free of charge. The Contractor shall transport to site, protect, store and install the Australian hardwood timber for the tower.

2. Radiata Pine

All Radiata Pine for the landings shall be provided by the Contractor.

14. MATERIAL STANDARDS

All materials shall be the best of their respective kinds and more particularly shall conform as follows:

14.1 Steel

All steel plate and rolled section shall be grade 43A steel and shall conform with B.S.4360:1972 except that dimensions and tolerances for rolled sections shall be in accordance with B.S.4.

... ..

14.2 Bolts

- (i) The 1 1/8" dia. bolts and nuts shall have B.S.W thread and conform with N.Z.S.1067.
- (ii) All other bolts and nuts shall conform with A.S. 1111 and A.S. 1112 respectively.

14.3 Galvanising

All steel work is to be hot dip galvanised to produce a zinc coating not less than 0.09mm thick. The bolts are to be galvanised after threading. The nuts and turnbuckles shall be retapped after galvanising to remove the zinc layer on the threads and shall be oiled to prevent rust.

14.4 Australian Hardwood

Australian hardwood shall be free from defective inner heart and shall comply in every respect with N.Z.S 485 Part 5.

14.5 Radiata Pine

The Radiata Pine shall be pressure treated to N.Z. Timber Preservation Authority Commodity Specification C3 (13.5 kg/cubic metre).

The minimum standard of timber quality shall be No.1 Framing Grade, in accordance with N.Z.S. 3631:1978. All timber shall be rough sawn, except the deck planks, which shall be thickened to 46 mm with one face and both edges remaining rough sawn and the handrails and posts which shall be shaped to the details shown on the drawings.

15. STEEL FABRICATION AND WORKMANSHIP

The preparation and fabrication of all steel plates and sections shall conform with the best trade practice, shall be carried out only by experienced tradesmen and comply with relevant parts of N.Z.S. 1900, Chapter 9, Division 9.4:1965, Sections 9.4.54 to 9.4.75 inclusive.

Wherever possible the steel shall be cut to length by sawing and prepared for welding by milling or grinding. Where cutting is necessary, edges must be ground off to the required shape free of inclusions. All sharp edges shall be de-arissed. Weld splatter, slag etcetera shall be removed and all delamination ground out if practical, or seal welded.

Welding shall be carried out in strict accordance with B.S. 5135:1174. All stressed welds in main structural members, shall be full penetration welds, capable of developing the full strength of the members being joined. In the case of butt

welds in rolled sections, where single side welding is used, the back of the weld shall be gouged and a sealing run applied.

In addition, tabs shall be provided at the edges of flanges, to ensure completeness at the start and finish of runs. Tabs shall be removed and the weld ground back to shape when the welding is completed.

In all situations, welds shall be continuous around the perimeter of joints and effectively seal off the meeting

The Contractor shall make all necessary provision for protection of work against adverse weather on the site. No welding shall be undertaken when the steel surfaces are wet or when the air flow over the work exceeds 1 metre per second.

Welding electrodes shall conform with B.S. 639:1972.

Electrodes shall be stored in their original bundles or cartons in a dry place adequately protected from the weather. Any electrodes which have areas of flux covering broken away shall be discarded.

Welding operators shall hold current certificates in accordance with N.Z.S 4711:1973 - Qualification Tests for Manual Metal Arc Welders. Notwithstanding the holding of a certificate, the Engineer may require any operator to undertake further qualification tests for the weld positions in which he proposes to operate. In the event of failure of the tests, such operators would not be acceptable to the Principal. All welding shall be carried out under the continuous supervision of an experienced shop foreman or welding supervisor, who himself is qualified as an operator.

Inspections and checks appropriate to the location of the weld will be carried out by the Engineer as the work proceeds. All welds may be examined for cracking using a dye penetrant. Any cracked weld shall be cut out and made good. All welds will be subjected to visual inspection and shall be generally sound and free from defects to the satisfaction of the Engineer. The cost of all non-destructive testing shall be borne by the Principal.

All bolt holes shall be drilled to the sizes shown on the Drawings. The threaded portion of each bolt shall project through a nut at least one thread and washers shall be of sufficient thickness to ensure that the unthreaded length of the bolt extends for the full thickness of the parts bolted together. Washers shall be of the type denoted on the Drawings.

Brackets: Minimum diameter of bends shall be five times the plate thickness.

16. TIMBER CONSTRUCTION AND WORKMANSHIP

All timber construction shall be carried out by experienced tradesmen in accordance with best trade practice.

Deck planks shall be fixed to the stringers with two 125mm x 4.5 mm galvanised flat head nails at each stringer. Nails at ends of planks shall be through pre-drilled holes. The rough sawn side of the planks shall face upwards.

17. PAINTING

17.1 Exposed Steel Work

On completion of galvanising where specified exposed steel shall be degreased and then given one coat of Devran 201 (or similar) then two coats of Devshield 235 (or similar) followed by a finishing coat of white Devthan 239 (or similar) to the manufacturers specifications.

17.2 Timber

Where specified timber shall be given one coat of Devshield 235 (or similar) followed by a top coat of White Devthan 239 (or similar) in accordance with the manufacturers specifications.

18. REMOVAL OF HOUSE

The existing house is to be removed from its tower intact, transported by water and unloaded on the landing at the Board's Buoys & Beacon area, Beaumont Street, Freemans Bay (see Drawing E.2653/1). The weight of the existing house including one metre of legs of tower is approximately 27 ± 3 tonnes.

19. DEMOLITION OF EXISTING TOWER

The existing timber legs and beams, steel stairway, bracing and piles are to be demolished and removed from the site. With the exception that the Principal reserves the right to retain two samples each of the metal brackets and bracing.

FOUNDATION ALTERNATIVE 1

20. PILING

The new piles to support the lighthouse shall be reinforced concrete encased in circular mild steel casings. They shall be constructed to the dimensions and details shown on the Drawings.

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20.1 Bore Data

Copies of logs of boreholes taken at the site are included in the Drawings for the information of the Contractor. The data shown presents a factual description of the samples obtained at the various depths and positions indicated, but the Contractor must make his own assumptions and draw his own conclusions from the data.

20.2 Unsuitable Strata

It is not anticipated that unsuitable strata will be encountered during drilling operations. However, if this is not the case, further investigation may be required at the direction of the Engineer, at rates to be agreed.

20.3 Setting Out

The Contractor shall be responsible for all setting out of the work in accordance with information supplied by the Engineer and/or shown on the drawings. The provisions and stipulations set out in Clauses 8.10.1 to 8.11 inclusive, of the General Conditions of Contract, N.Z.S. 623, shall apply.

20.4 Steel Casings

The steel casings shall be manufactured from mild steel plate, being Grade 43A and complying with B.S.4360:1972, spirally wrapped and welded. The plate thickness and casing diameter shall be shown on the Drawings. Should the Contractor consider that the casing as shown, is not adequate to withstand water and soil pressures likely to be encountered, then he shall say so at the time of tendering and shall submit with his tender, his alternative design for consideration by the Engineer. Welding shall be carried out in accordance with N.Z.S. 1646 (B.S.1856:1964) and all welding operators shall hold current certificates in accordance with N.Z.S. 4711-1973. Accuracy in manufacture shall be such that the circumferential weld between one length of casing and the one adjoining it shall be completely watertight. The whole length of casing shall be completely watertight, when in its final position, prior to concreting and shall be cut off at the level shown on the Drawings.

It shall be the responsibility of the Contractor to ensure that each casing can penetrate any materials likely to be encountered and to ensure that this can occur without buckling, he shall securely fix, to the lower edge of the first section, whatever reinforcing or cutting device he may consider necessary, at his own expense. Before undertaking the manufacture of the casing, he shall advise the Engineer of the cutting edge, if any, proposed to be used.

20.5 Reinforcement

The steel reinforcing for each pile shall be as shown on the Drawings. The spiral wire binding shall be securely fixed, by spot welding, to every second vertical bar to form a rigid cage. Laps in the vertical bars shall be as shown on the Drawings. Mild steel spacer hoops or rings and lifting hoops shall be provided to the reinforcing cage as and where required by the Contractor. After fabrication, the first individual cage shall be introduced into the steel casing and the next cage welded securely to it and so on, until all separate cages have been joined to form one complete cage, within the casing. Care shall be taken to ensure that the specified cover to the steel bars is maintained throughout the entire length of the pile.

20.6 Concrete

All concrete used for the piles shall be Special Grade with a compressive strength of not less than 35 MPa at 28 days and shall conform with the General Specification for Reinforced Concrete. The minimum cement content shall be 370 kg/cubic metre. The maximum water cement ration shall be 0.50 and the maximum aggregate size shall be 20mm.

20.7 Drilled Holes for Piles

Holes for founding piles shall be located in the positions shown on the Drawing. The drilling rig shall be capable of maintaining a satisfactory rate of progress and shall be manned by fully experienced operators. The steel casings and concrete piles shall penetrate a minimum of 1 metre and 2.5 metres respectively in solid rock. All material taken from the holes shall be recovered by the Contractor and dumped where directed by the Engineer not more than 250 metres distant.

20.8 Concreting

A tremie method shall be used for placing the concrete. The function of the tremie shall be that of placing the fresh concrete within or under the previously placed charge of concrete and under no circumstances shall concrete be allowed to fall or drop through water.

21. FOUNDATION ALTERNATIVE 2

21.1 Allowable Bearing

Base of foundation pads to bear on either the existing man placed rock or bedrock with an allowable bearing value greater than 150KPa.

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21.2 Payment

Rock Excavation and Concrete

Horizontal Direction

Payment shall not be made for extra rock excavation or concrete placed outside the horizontal limits of the foundations shown on the Drawings.

Vertical Direction

Payment shall be made for extra rock excavation or concrete placed below level - 0.45 C.D. ordered by the Engineer at rates shown in the Schedule of Quantities.

21.3 Concrete

Concrete for the foundation shall have a compressive strength of not less than 35 MPa at 28 days.

22. Other foundation alternatives will be considered.

23. TOWER

23.1 Construction

The tower is to be reconstructed in accordance with the Drawings and Specifications in Australia Hardwood (supplied by the Principal) and galvanised steel joints and bracings.

The timber legs and beams are to be painted in accordance with clause 16.2. The steel brackets, bracing and turnbuckles shall be painted in accordance with clause 16.1 above.

23.2 Stairway

Provide and install the stairway as detailed in the Drawings. Stringers shall be hot dipped galvanised after attachment of all brackets. Treads to be from treated Radiata Pine.

Handrails shall be fabricated from galvanised steel water pipe fastened together with galvanised "A" clamps. Stringers and handrails are to be painted in accordance with clause 16.1.

23.3 Landing

The landing shall be constructed from treated Radiata Pine to details on Drawings. Bolts and nails to be galvanised. Handrails shall be painted in accordance with Clause 16.2.

23.4 Ladders

Steel ladder shall be provided and fixed as detailed in the Drawings. Ladders shall be hot dip galvanised after fabrication and then painted in accordance with clause 16.1.

24. INSTALLATION OF RENOVATED HOUSE

On completion of the renovation of the house, which will be within four months of its removal, the Contractor shall return it to the Bean Rocks Lighthouse site and re-erect it on the new tower in accordance with the Drawings and Specifications.

25. CONTINGENCY SUM

A contingency sum of \$30,000 shall be included in the Tender Price as Gross Sum Allowance for such unforeseen work, materials or alterations as may be considered necessary or desirable by the Engineer during construction work. Any portion of this sum not authorised for use in writing by the Engineer, will be deducted from the final account.

26. GENERAL

The whole of the work shall be carried out and completed to the entire satisfaction of the Engineer. All materials used shall be the best of their respective kinds and the use of faulty or sub-standard materials will not be tolerated. The Contractor shall, at all times, maintain the site in a tidy, sanitary condition and shall, on completion, leave same in a condition satisfactory to the Engineer.

AUCKLAND HARBOUR BOARD

GENERAL SPECIFICATION FOR REINFORCED CONCRETE

SECTION 1, SITE MIXED CONCRETE

1. CEMENT: Cement shall be either Portland cement or rapid-hardening Portland cement and shall comply in every respect with the requirements of N.Z.S. 3122. Special cement shall be used only with the written consent of the Engineer.
2. AGGREGATES: Fine and coarse aggregates shall comply with the requirements of N.Z.S. 3121. The nominal maximum size of coarse aggregate shall generally be 20mm but, in any event, shall not exceed three quarters of the specified cover or three quarters of the clear lateral distance between adjacent reinforcing bars. Where slab reinforcement is required to have a 20mm cover, the nominal maximum size of aggregate may be 20mm. If the nominal maximum size of aggregate is greater or less than 20mm, the cement content per cubic yard of mixed concrete shall be subject to the approval of the Engineer.
3. WATER: Water shall comply with the provisions of N.Z.S. 3121.
4. STORAGE OF AGGREGATES: The storage and handling of aggregates shall be such as not to result in segregation or contamination by foreign materials. Aggregates of each specified size range shall be brought separately to the place of mixing and shall be stored in such a way as to prevent the materials intermixing. Washed sand shall be allowed to drain to a stable moisture content.
5. STORAGE OF CEMENT: Cement shall be so stored and handled on the site as to be protected against deterioration or contamination and to be capable of being inspected at all times. Any cement which does not comply with the requirements of N.Z.S. 3122 shall be removed from the site of the works.
6. ADMIXTURES: Chemical or air-entraining admixture shall not be used in site mixed concrete without the prior consent of the Engineer.
7. MIX DESIGN: Site mixed concrete shall be either Ordinary Grade or High Grade and shall comply in all respects with the relevant requirements set out in N.Z.S. 1900, Chapter 9, 3A: 1970.
8. MANUFACTURE: Unless otherwise approved by the Engineer, the mixing of concrete shall be done in a batch mixer complying with the provisions of N.Z.S. 3105, or other approved type which will ensure the thorough mixing of all materials. The volume of the mixed material for each batch shall not exceed the manufacturer's rated capacity of the mixer. The entire batch shall be discharged before recharging. The mixing time shall be measured from the time when all the materials are in the mixer drum. The minimum time of mixing shall be 1½ minutes for mixers of 0.75m³ or less capacity and mixers of larger capacity shall have the time of mixing increased by 15 seconds for each additional 0.375m³ capacity or fraction thereof. The drum shall rotate at a peripheral

speed of approximately 60 metres per minute at a point on the widest section of the drum, or at a speed of 12 r.p.m.

SECTION 2, READY MIXED CONCRETE

1. MIX DESIGN: Ready mixed concrete shall be either High Grade or Special Grade and shall conform in all respects with the relevant requirements set out in N.Z.S. 1900, Chapter 9.3A:1970.
2. MANUFACTURE: Ready mixed concrete shall be produced and delivered to the site of the works in the manner set out in N.Z.S. 2086. Results of tests carried out by the manufacturer shall, if required, be made available to the Engineer on request.
3. ADMIXTURE: Should the manufacturer intend to use chemical or air-entraining admixtures in the Ready Mixed Concrete, this must be made known to the Engineer prior to delivery.

SECTION 3, REINFORCEMENT

1. REINFORCING STEEL: Reinforcing bars shall comply with the provisions of N.Z.S. 3402P:1973. All reinforcing used in stirrups shall comply with the bend test requirements of N.Z.S. 3402P. Welded wire fabric reinforcing shall comply with the relevant requirements of N.Z.S. 3422:1972.
2. STORAGE AND CLEANING: Reinforcement shall be maintained at all times free from damage and contamination, shall be clean and free from all loose mill scale, dust and loose rust, and coatings such as paint, oil or anything which may reduce bond.
3. EXPOSED REINFORCING: Exposed reinforcing bars intended for bonding with future extensions shall be adequately protected from corrosion.
4. COVER TO REINFORCING: The minimum concrete cover to reinforcing steel measured from the outside of the bar shall be as follows unless otherwise specified:

<u>Foundations:</u>	a) against natural ground	75mm
	b) against approved boxing and back-fill or similar	50mm

Beams & Columns: Principal Reinforcement.

a) against natural ground	75mm
b) against approved boxing and back-fill or similar	50mm
c) exposed to weather and unplastered	50mm
d) exposed to weather and plastered	40mm
e) not exposed to weather	40mm

COVER TO REINFORCING: (Cont.)

Beams & Columns: Secondary Reinforcement.

All 12mm less than for Principal Reinforcing.

<u>Slabs:</u>	a) against natural ground	50mm
	b) against approved boxing and back-fill or similar	30mm
	c) exposed to weather and unplastered	30mm
	d) exposed to weather and plastered	20mm
	e) not exposed to weather	20mm

<u>Walls:</u>	a) against natural ground	50mm
	b) against approved boxing and back-fill or similar	40mm
	c) exposed to weather and unplastered	40mm
	d) exposed to weather and plastered	25mm
	e) not exposed to weather	25mm

5. HOOKS: Hooks on bars shall be formed with the point parallel to the shank and with a semi-circular curve having an inner diameter of at least four times the diameter of the bar, except that when a hook fits over a main bar, the inner diameter of the curve may be equal to the diameter of such bar. The length of the straight part beyond the end of the curve shall be at least four times the diameter of the bar forming the hook.
6. LAPS: Hooked bars shall be lapped for a distance of 40 diameters. Bars without hooks shall be lapped for a distance of 54 diameters.

FORMWORK

1. DESIGN AND CONSTRUCTION: Formwork shall be designed in accordance with recognised principles and constructed so that it may be removed without damage to the concrete. All formwork shall be adequately braced and supported to prevent sagging or bulging during the placing of concrete and all joints shall be sufficiently tight to prevent undue leakage of liquid from the concrete. All forms shall be fixed to proper line and level and trued up immediately prior to concreting. Strutting shall be carried down to construction sufficiently strong to afford the required support without permissible stresses being exceeded.

Bolts and other fittings used inside the forms for tying them together during concreting shall be constructed so as to permit their easy removal to a depth necessary to provide the required cover over the reinforcement without injury to the concrete and so that, upon their removal, the cavities can be filled with mortar and the surface left sound, smooth, even and uniform in colour.

1. DESIGN AND CONSTRUCTION (Cont.)

Washout ports shall be provided at the bottom of all concrete lifts and each column; and shall be of adequate size and spacing for their purpose.

2. REMOVAL OF FORMWORK: Formwork shall be removed without shock or vibration and in such a manner as to permit the concrete to take the imposed stresses gradually. After concrete has been placed formwork shall, unless otherwise approved by the Engineer, not be removed until the minimum periods set down below have elapsed. Concrete members shall not be assumed capable of supporting any superimposed loading when the minimum stripping time has elapsed and the construction supports have been removed, nor capable of supporting the design live load until the concrete has reached its design strength, taking due account of frame continuity in both cases.

Minimum removal times are as follows:-

	<u>Very Cold</u>	<u>Temperate</u>
a) beam sides and walls	6 days	2 days
b) columns and slabs in beam and slab construction-props to be left under slabs of span over 1.5m	10 days	5 days
c) props from slabs of span over 1.5m in beam and slab construction	14 days	7 days
d) beam soffits and slab spans exceeding 4.5m	28 days	16 days

CONCRETING

1. ADVERSE CONDITIONS: No concrete shall be placed under unfavourable weather or other undesirable conditions, except with such precautions as the Engineer may approve in writing. Unfavourable conditions shall be deemed to include excessively low air temperatures (i.e. below 4.5 degrees C with temperature descending or below 2.5 degrees C with temperature ascending), excessively hot dry conditions, wet conditions or any other condition making it impossible to work the concrete adequately.
2. CLEANING OF FORMWORK: Immediately before any concreting is commenced, all formwork shall be carefully examined to ensure that all dirt shavings, sawdust and other refuse has been removed by brushing or washing with a hose or other approved means.
3. WETTING FORMS: The inside of timber forms shall be wetted with clean water immediately prior to the placing of concrete unless the forms have been coated with an approved form of dressing. No form dressing other than water, shall be applied after placing reinforcement in the forms. In all cases, surplus liquid shall be removed before concrete is placed.

10. CONCRETE PLACING UNDER WATER: Where it is necessary to place concrete under water, the Contractor shall notify the Engineer in writing, outlining his intended method for placing such concrete. The Engineer may, at his discretion, impose such conditions and control as he considers necessary.

11. DIMENSIONAL TOLERANCES: Where tolerances are not stated in the specifications, as shown on the drawings, permissible deviations from established lines, grades and dimensions shall be determined by the appropriate consideration of the tolerances suggested in N.Z.S. 1900, Chapter 9.3A:1970, Table 8.

AUCKLAND HARBOUR BOARD

CONTRACT NO.2500A

BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

Tender Form

To: The Chairman
AUCKLAND HARBOUR BOARD

Sir,

Having examined the Specification, Drawings, Schedule of Quantities and Conditions of Contract for the abovenamed works we offer to execute and perform the several works described and alluded to for the sum of or such other sum as may be ascertained in accordance with the Conditions of Contract.

We undertake to complete the works within calender weeks of the date of the Engineer's order to proceed.

Should this Tender be accepted we undertake to execute a Contract and Bond embodying the aforesaid Specification and Cnditions within 28 days of receipt of the same from the Board.

We acknowledge that unless and until a formal Contract Agreement is prepared and executed, this Tender together with the written acceptance thereof shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any Tender you may receive.

We enclose herewith a cheque payable to the Auckland Harbour Board for \$500.00.

Signature

Name of Company

Address

Date

Telephone

AUCKLAND HARBOUR BOARD

CONTRACT NO.2500A

BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

Schedule of Quantities

<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1. Provide for all establishment and disestablishment charges. Itemise hereunder and price				
.....	Item			
.....	Item			
.....	Item			
.....	Item			
.....	Item			
2. Specify and allow for any work to be done, materials and plant to be provided or any special risk, liability or obligation to be undertaken by the Contractor for which no separate item is provided in the Schedule	Item			
.....				
.....				
.....				
.....				
.....				
3. Provide for disconnecting house from tower and transporting it to and unloading on site specified.	Item			

.....

<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
4. Provide for demolition of existing tower and pile foundations and disposal of demolition material.	Item			
5. Provide for supply of all materials for (except Australian hardwood) and construction of tower in accordance with Drawings and Specifications. Include landing, stairway, ladder and holding down bolts.	Item			
<u>FOUNDATION ALTERNATE 1</u>				
6. <u>Piles</u>				
Supply all materials for and construct to details and positions shown on Drawings.				
6.1 Allow for removal and replacement of packed rock, and disposal of surplus material.	cu. m	40		
6.2 Allow for supply and installation of steel casing	m	42		
6.3 Allow for drilling 600 mm dia hole into foundation rock including disposal of excavated material	m	17.5		
6.4 Allow for supply and placement of reinforcing cage.	m	52.5		
6.5 Allow for supply and placement of concrete in 600 dia. pile	m	52.5		

FOUNDATION ALTERNATE 2

7. Foundation

Supply all materials for & construct to details and positions shown on Drawing K.814.

<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
7.1 Allow for removal and replacement of packed rock, and disposal of surplus material.	cu. m	60		
7.2 Allow for supply and placement of reinforcing.	l.s.			
7.3 Allow for supply and placement of concrete.	cu.m.	69		
8. Provide for transporting renovated house from Buoys and Beacon Site to Bean Rocks and fixing it in position on new tower in accordance with Drawings and Specification, include the supply and fabrication of the fastenings.	Item			
9. Contingency Sum				\$30,000
TOTAL AMOUNT OF TENDER	ALTERNATE 1			
	ALTERNATE 2			

AUCKLAND HARBOUR BOARD

CONTRACT NO. 2500A

BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

Schedule of Daywork Rates

Tenderers shall set out below hourly rates for skilled and unskilled men and for machines, which will be used for carrying out unscheduled work as directed by the Engineer. All rates shall be all-inclusive and shall be deemed to cover all costs to the Contractor including supervision, overheads and profit. Only hours actually worked shall be paid for.

LABOUR

<u>Type of Worker</u>	<u>Rate per hour</u> (State days and times applicable)
	100 hours
	100 hours
	100 hours

PLANT

<u>Type of Machine</u>	<u>Rate per hour</u> (inclusive of Operator)
------------------------	-------------------------------------------------

MATERIALS

(Nominate percentage addition to cost price%)

AUCKLAND HARBOUR BOARD

CONTRACT NO. 2500A

BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

Schedule of Current Market Prices

For the purposes of Clause 22. 2. 2 of the General Conditions of Contract, the Tenderer shall detail in this Schedule any materials and the ruling market price prevailing in New Zealand, at the date of Tendering, of such materials to which such Clause shall apply.

Any materials not priced in this Schedule will not be subject to the provisions of Clause 22.

Unless otherwise described all rates shall be construed as being ex Merchants' store at Auckland.

<u>ITEM</u>	<u>MATERIAL</u>	<u>UNIT</u>	<u>RATE</u>
-------------	-----------------	-------------	-------------

R.M. Myers
18 Vienna Place
BIRKENHEAD

Green & McCahill Limited
PO Box 12-443
AUCKLAND

4 March 1985

Dear Sir

CONTRACT 2500
BEAN ROCKS LIGHTHOUSE
ALTERNATE DESIGN

You are invited to submit a price for an Alternate Design for the Reconstruction of Bean Rocks Lighthouse as shown on Drawing K.814 enclosed with this letter.

I would appreciate it if the completed Schedule of Quantities and Tender Form for Contract No. 2500, Bean Rocks Lighthouse Reconstruction Alternate, enclosed, be delivered to the Chief Engineers Clerk, 8th Floor, Air New Zealand Building by 12 noon Thursday 7 March 1985.

Yours faithfully

B.R. Le Clerc
CHIEF ENGINEER TO THE BOARD

RHW:VLH

Enc. Copy K.814

Tender Form

Schedule & Quantities

Alternate Specification

758 BEA

21 February 1985

Mr P.W. Shirley
9 Mikasa Place
Mangere
AUCKLAND

Dear Sir

BEAN ROCKS LIGHTHOUSE - RECONSTRUCTION

With reference to your letter of 14.2.85, I enclose a set of contract documents (Contract 2500) for the reconstruction of the lighthouse.

It is proposed to award the contract at the next Board meeting on 26.3.85 and a tentative completion date is October this year.

Yours faithfully

B.R. Le Clerc
CHIEF ENGINEER TO THE BOARD

LWJ:JMH

Enc.



758 BEA

9 Mikasa Place,
Mangere,
AUCKLAND,
14th February, 1985



To: CE

Date: 15/2/85

From: HO

PLEASE ACKNOWLEDGE

PLEASE REPLY DIRECT
SUBMITTING COPY TO
HEAD OFFICE

PLEASE REPORT

FOR YOUR INFORMATION
AND RETURN PLEASE

FOR NECESSARY ACTION
PLEASE



what the specifications will entail, for
use?
In tracing the history of this early beacon,
1884, I compiled an article on Bean Rock,
which was later reprinted in the Royal NZ
gazette. It must be commended in their decision,
to publish the article in their form.
Information available, concerning the new lighthouse
and completion dates of this project,

Artist Chief Engineer (Auck)
Please forward information
requested *SB 15/2*

Sincerely,

Shirley
Shirley

J4038/6

p raw

GENERAL MANAGER
OPERATIONS MANAGER



CE5

R

758 BEA

9 Mikasa Place,
Mangere,
AUCKLAND,
14th February, 1985



The Secretary,
Auckland Harbor Board,
P.O. Box 1259,
AUCKLAND, 1

Dear Sir,

Could you please advise me, what the specifications will entail, for the reconstruction of Bean Rock Lighthouse?

I have been involved in researching the history of this early beacon, over a number of years; and during 1984, I compiled an article on Bean Rock, for the "Historic Places" magazine, which was later reprinted in the Royal NZ Yacht Squadron's journal. The Harbor Board must be commended in their decision, to rebuild the old tower in its present form.

Any information which is now available, concerning the new lighthouse replica, and the likely commencement and completion dates of this project, would certainly be appreciated.

Yours faithfully,

P. W. Shirley

Paul W. Shirley



CE5

R

AUCKLAND HARBOUR BOARD

CONTRACT NO. 2500

BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

Index Sheet

The General Conditions of Tender and Contract for this Contract shall be the New Zealand Standard Specification "Conditions of Contract for Building and Civil Engineering Construction", N.Z.S. 623:1964 and amendments thereto, except as amended or extended in the First Schedule - Special Conditions of Contract.

CONTENTS OF BOUND DOCUMENTS

1. Index Sheet.
2. First Schedule - Special Conditions of Contract.
3. Second Schedule - Form of Agreement for Fulfilment of Contract.
4. Third Schedule - Form of Bond.
5. Insurance Contract Works Policy.
6. Specification.
7. Tender Form.
8. Schedule of Quantities
9. Schedule of Daywork Rates.
10. Schedule of Current Market Prices.

*refer new
revised spec.*

DRAWINGS

The above documents to be read in conjunction with Auckland Harbour Board Drawings No.E.2653/1-6.

Drawings of existing lighthouse are available on request.

TENDERERS TO NOTE:

Tenderers are requested to return documents 7, 8, 9 and 10 with their tender.

AUCKLAND HARBOUR BOARD

CONTRACT NO.2500

BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

First Schedule - Special Conditions of Contract

Amendments and/or extensions to the General Conditions of Contract N.Z.S. 623 (paragraph numbers refer to the appropriate Clause).

DEFINITIONS

- 1.1. "Engineer" shall mean the person who is for the time being Chief Engineer to the Board.
- "Board" shall mean the Auckland Harbour Board.

TENDER

2.1.1. Submission of Tender

Tenders will close at the office of the Secretary, Auckland Harbour Board, 9th Floor, Air New Zealand House, 1 Queen Street, at noon on Thursday, 28 February 1985. Tenders shall be enclosed in a sealed envelope addressed to the Chairman, Auckland Harbour Board and marked on the outside "Tender for Contract No.2500 Bean Rocks Lighthouse Reconstruction."

2.1.5. Type of Contract and Schedule of Quantities

This Contract is for a lump sum price and except for the piles is not subject to remeasurement and Part 2.1.5 of the General Conditions applies. For the purpose of Progress Payments however, Tenderers shall complete the attached Schedule showing how the lump sum is made up.

- 2.3.1. Deposit with Tender shall be \$1,000.00.

- 2.7. The lowest or any tender will not necessarily be accepted. No tender will in any event be accepted until the Principal is in receipt of all necessary statutory approvals authorising the project to proceed.

- 3.1. A surety is required and shall be a recognised Trading Bank or Insurance Company.

- 3.2. Bond shall be executed for 10% of the Contract Sum.

... ..

8.9 General Obligation

The Contractor will be required, as soon as practicable after acceptance of his Tender, to submit to the Engineer for his approval, a programme showing the order in which, and the methods by which he proposes to carry out the works.

INSURANCES

The Principal at his own cost has effected Contractors All Risks and Public Liability Insurance

Any excesses or deductibles under these policies shall be borne by the Contractor. The Contractor may at his sole discretion obtain other or additional insurance but the cost of same shall be borne solely by the Contractor.

In effecting Contractors All Risks and Public Liability Insurance the Employer is not to be taken as:-

- (a) Warranting or representing that it has insured the Contractor against liability or against loss or damage other than to the extent that any claim in terms of the Policies may be paid by the Insurer thereof.

and

- (b) Relieving the Contractor of any responsibility, duty or obligation imposed under this Contract.

COMMENCEMENT TIME AND DELAYS

11.3. Tenderers shall nominate on the Tender Form the time, in weeks, within which they are prepared to guarantee completion of the works.

11.6.1 Liquidated damages shall be \$250.00 per week

MAINTENANCE

12.1. The period of maintenance for the work carried out by the Contractor shall be three months.

CONTINGENCY SUM

16.3. The amount of the Contingency Sum which must be included in the Tender is \$30,000 as set out in the Schedule of Quantities.

CERTIFICATES AND PAYMENTS

17.2.1. Retention in addition to Liens Act requirement shall be at the rate of 5%.

17.3.1. Plant advances shall not be made.

COST FLUCTUATIONS

22.1. Cost fluctuations shall apply provided a Schedule of Current Market Rates is submitted with the Tender.

22.2 This clause shall not apply to this Contract.

AUCKLAND HARBOUR BOARD

SECOND SCHEDULE

FORM OF AGREEMENT FOR FULFILMENT OF CONTRACT

Contract No. _____ for _____

AGREEMENT made this _____ day of _____ 19 _____

BETWEEN _____ (hereinafter called the Contractor) of the one part and the Auckland Harbour Board (hereinafter called the Board) of the other part and

WHEREBY it is agreed as follows:-

1. The Contractor shall do, execute, provide, deliver, construct, finish and maintain all and singular the works supplies services and things mentioned in the annexed documents which shall be deemed to form and be read and construed as part of this agreement and shall comprise the following:-

- (a) the Tender, the letter of acceptance and any other relevant letters.
- (b) the Drawings.
- (c) General Conditions of Contract.
- (d) the Specification.
- (e) Bill of Quantities.
- (f) Schedule of Current Market Rates.
- (g) the Special Conditions of Contract.
- (h) the Bond.
- (i) Schedule of Daywork Rates.

2. The Board shall at the times, in the manner and subject to the terms conditions and stipulations contained in this agreement pay the sum of _____

dollars (\$ _____) or such greater or lesser sum as according to this agreement shall become payable by the Board to the Contractor.

IN WITNESS whereof these presents have been signed by the parties the day and year above written.

Contractor (Reg. Company)

The Common Seal of _____
was hereto affixed in the presence of _____

Contractor (Individual)

Signed by the said _____

Address _____

Signature _____

in the presence of (Witness) _____

Address _____

Occupation _____

Signature _____

The Common Seal of the Auckland Harbour Board was hereto affixed by order of the Board at a meeting of the Board held on the _____ day of _____ in the presence of

_____ Chairman

_____ Member

AUCKLAND HARBOUR BOARD

THIRD SCHEDULE

FORM OF BOND

Contract No. _____ for _____

KNOW ALL MEN BY THESE PRESENTS that _____
of _____ (hereinafter called the Contractor)
and _____

of _____ (hereinafter called the Surety)

are jointly and severally bound to the Auckland Harbour Board (hereinafter called the Board) in the sum of _____ dollars (\$ _____) for the payment of which the Contractor and the Sureties bind themselves, their successors and assigns jointly and severally by these presents.

Executed and dated this _____ day of _____ 19 _____

WHEREAS the Contractor by an Agreement made between the Board of the one part and the Contractor of the other part has entered into the Contract described above (hereinafter called "the said Contract") for the construction completion and maintenance of certain works as therein mentioned in conformity with the provisions of the said Contract.

NOW THE CONDITION of the above-written bond is such that if the Contractor shall duly perform and observe all the terms provisions conditions and stipulations of the said Contract on the Contractors part to be performed and observed according to the true purport intent and meaning thereof prior to the commencement of the period of maintenance or if on default by the Contractor the Surety shall satisfy and discharge the damages sustained by the Board, thereby up to the amount of the above written Bond then this obligation shall be null and void but otherwise shall be and remain in full force and effect but no alteration in terms of the said Contract made by Agreement between the Board and the Contractor or in the extent or nature of the Works to be constructed and completed and maintained thereunder and no allowance of time by the Board or the Engineer under the said Contract nor any forbearance of forgiveness in or in respect of any matter or thing concerning the said Contract on the part of the Board or the said Engineer shall in any way release the Surety from any liability under the above written Bond.

Contractor (Reg. Company)

The Common Seal of _____
was hereto affixed in the presence of _____

Contractor (Individual)

Signed by the said _____

Address _____

Signature _____

In the presence of (Witness)

Address _____

Occupation _____

Signature _____

Surety (Reg. Company)

The Common Seal of _____
was hereto affixed in the presence of _____

CONTRACT WORKS POLICY

BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

Prepared By:

Bowring Burgess Marsh & McLennan Ltd

Auckland

February 1984

AUCKLAND HARBOUR BOARD

CONTRACT WORKS INSURANCE

Whereas the Insured named in the Policy hereto has made to the Insurers a written proposal.

Now this Policy of Insurance witnesseth that in consideration of the Insured having paid or agreed to pay to the Insurers the agreed premium and subject to the exclusions provisions and conditions contained hereon or endorsed hereon the Insurers will indemnify the Insured in the manner and to the extent hereinafter provided.

THE SCHEDULE

INSURED

AUCKLAND HARBOUR BOARD AS PRINCIPAL ALL CONTRACTORS
SUBCONTRACTORS AND SUPPLIERS TO THE PRINCIPAL

for their respective rights and interests.

PREMIUM

Rate as agreed.

CONTRACT

All supply, dismantling, removal, construction, erection, repair, rebuilding and other activities arising in connection with Bean Rocks Lighthouse Reconstruction as generally defined in the Contracts between the Insured and including all works not described in the Contracts but which are deemed necessary by any of the Insured.

PERIOD OF COVER

The liability of the Insurers shall commence on _____
and continue to _____ and then to be
followed by period of maintenance of _____ months.

The attachment of this Policy is directly the Insured becomes responsible for property forming part of or to be incorporated in the Contract whether at the Contract site or elsewhere in New Zealand including whilst in transit and shall continue until the whole of the Contract is completed and handed over to the Principal, the cover and consequently the liability then ceases except in so far as liability arising during the period of maintenance.

The Insurance shall expire on the dates specified to the Insurers, but if the Contract or maintenance operations included in the Insurance are not completed within the time specified, the Insurers agree to extend the period upon payment of additional premium appropriate to any additional risk which the Insurers have thereby assumed at a rate to be agreed.

SECTION (1)

PROPERTY AND SUMS INSURED

	<u>Sum Insured</u>
The Contract including Temporary Works, and) all materials and goods used or to be used in) connection therewith (which shall include) existing property of the Principal), the) Property of the Insured or whilst in the) possession of the Insured or for which the) Insured are responsible on or adjacent to) site of works or in temporary storage offsite,) or whilst in transit all within New Zealand)	

THE DEDUCTIBLE

The amount of deductible applicable to destruction loss or damage arising from any cause except fire, lightning or explosion is \$2,000 however any loss or damage arising during any one period of 72 hours caused by earthquake, storm, tempest or flood shall be deemed to be a single event and therefore to constitute one loss with regard to the sum insured and the deductible.

SECTION (2)

Limit of Liability any one occurrence	\$5,000,000
Deductible	\$ 2,000

SECTION I

MATERIAL DAMAGE

The Insurers hereby agree with the Insured that if at any time during the period of insurance or during any further period of extension thereof, the property or any part thereof described shall suffer any physical loss or damage from any cause, other than those specifically excluded, in a manner necessitating repair or replacement, the Insurers will pay or make good all such loss or damage up to an amount not exceeding the total sum expressed.

The Indemnity by this Section shall extend to include:-

(a) Professional Fees

All Architects, surveyors, legal, consulting engineers and all other fees and similar costs (which shall include Clerk of Works and Inspectors salaries and wages) for the replacement and/or reinstatement of loss and/or damage.

(b) Removal of Debris

All costs and expenses incurred in removing debris and/or wreckage, consequent upon loss of or damage to the property insured including the cost of dismantling or demolition of any of the property insured no longer useful for the purpose of the contract, and costs incurred in shoring up or propping and regaining access to original working conditions.

(c) Expediting Expenses

Additional expenses including but not limited to extra charges, express carriage, air freight and travel by insured employees and/or additional labour where necessarily incurred to rectify or contain loss or damage arising from any perils insured herein.

(d) Plans and Documents

The costs incurred in re-writing or redrawing of plans drawings or other contract documents lost destroyed or damaged as a result of a peril insured hereunder wherever or whenever such loss destruction or damage shall occur.

EXCLUSIONS

The Insurers shall not, however, be liable for:-

- (1) The deductible stated to be borne by the Insured in any one occurrence;
- (2) Consequential financial loss of any kind or description whatsoever including penalties, losses due to delay, lack of performance, loss of contract;
- (3) Loss or damage caused by
 - (a) normal wear and tear
 - (b) defective workmanship material or design.

Provided always that this exclusion shall be limited to that part of the machine structure or works immediately affected and shall not extend to other parts of the machine structure or works lost or damaged in consequence thereof.

And provided further that this exception shall not apply where fire or explosion ensues.

- (4) Loss of or damage to currency, stamps, deeds, evidence of debt, notes, cheques, securities for money, or registered motor vehicles.
- (5) Loss discovered only at the time of taking a normal inventory.
- (6) Loss of or damage to contractors plant, machinery, tools and equipment.
- (7) This policy shall not cover "Earthquake Damage" but this exclusion shall not apply to:
 - a) Any damage other than "Earthquake Damage" resulting from or arising from earthquake or "Earthquake Fire".
 - b) Any damage (whether accidental or not) occurring as the result of measures taken to avoid the spreading or otherwise to mitigate the consequences of any damage other than "Earthquake Damage".
 - c) The costs of demolition and removal of debris for which indemnity is provided herein.
 - d) Damage to the following types of Property forming part of the work as described under the Schedule:

Any land, any road, street or path, any railway track or pole, or any tramway track or pole, any bridge, viaduct, either completed or in course of construction, or any bridge or viaduct, any tunnel or cutting, any retaining wall, dam, breakwater, mole, groyne, fence or wall, any drain or channel, any reservoir, swimming bath, water tank (other than a water tank installed as part of the water supply to any dwelling or farm building), water tower or septic tank, any water or gas reticulation pipe (other than which forms a structural part of any building), any electric supply, telegraph or telephone pole, line or cable, any mine or quarry or any explosives.

In the interpretation of this exclusion No. 7 to this Policy, terms and expressions used in this exclusion which are defined in the Earthquake and War Damage Act 1944 shall be given the meanings assigned to them in that Act.

SPECIAL PROVISIONS

1. In the event of any loss or damage the basis of any settlement under this Section shall be:
 - (a) in the case of any damage which can be repaired - the cost of repairs necessary to restore the property to its condition immediately before the occurrence of the damage provided such cost does not exceed the replacement value,
 - OR
 - (b) in the case of a total loss, the actual replacement value of the property will be paid, provided always that the provisions, and conditions have been complied with.

The cost of any temporary repairs will be borne by the Insurers where reasonably and necessarily incurred.

All damage which can be repaired shall be repaired but if the cost of repairing any damage equals or exceeds the value of the insured item immediately before the occurrence of the damage the settlement shall be made on the basis provided for in (b) above.

The Insurers will not be liable for the cost of any alterations additions and/or improvements where the effect of these alterations, additions and/or improvements increases the cost of repair or replacement except where such additional costs are necessary to comply with any Act of Parliament or any Regulations under or framed in pursuance of any such Act or with requirements of any Municipal or Local Authority.

2. If during the Period of Insurance the actual total Contract price shall be in excess of the original Contract price then the sum insured shall be deemed to be increased by the amount of such excess but not exceeding 20% of the sum insured as shown in the Policy.

The Insured shall within a reasonable time after the completion of the Contract to which the Insurance applies, furnish to the Insurers a declaration of the total Contract price as finally measured (including the cost of service buildings and facilities).

Premium shall be finally adjusted on this basis after taking into account the deposit premium paid at inception.

REINSTATEMENT OF DAMAGE AUTHORISATION APPLYING TO SECTION I

In the event of a claim arising and the Insured completing procedures set out in General Condition (4), repairs or replacement of any minor damage may be carried out up to \$10,000. In all other cases a representative of the Insurers shall have the opportunity of inspecting the loss or damage before any repairs or alterations are effected. Nothing herein shall prevent the Insured from taking such steps as are necessary for the progress of the Contract.

SECTION II

THIRD PARTY LIABILITY

The Insurers will, subject to the exceptions and conditions hereinafter mentioned:-

- A. Indemnify the Insured or pay on behalf of the Insured any sum or sums which the Insured shall be obligated to pay by reason of liability:
- (a) imposed upon the Insured by law,
 - or
 - (b) assumed under contract or agreement
- for damages on account of:
- (i) Personal injuries
 - (ii) Property Damage
- caused by an occurrence happening during the Period of Insurance.
- B. Defend in the name of and on behalf of the Insured any claim or suit against the Insured to recover damages on account of such bodily injuries and/or damage to or destruction of property as aforesaid.
- C. Pay, in addition to the limits of liability expressed
- (i) All expenses incurred by or with the permission of Insurers for investigation, negotiation and defence of claims and suits;
 - (ii) All expenses incidental to the appeal from any judgement against the Insured subject to the consent of Insurers and all costs taxed against the Insured in any suit for damages on account of any judgement in such suit resulting from such appeal.

LIMIT OF LIABILITY

\$5,000,000 any one occurrence/unlimited in the period of insurance.

DEDUCTIBLE

The amount of the deductible applicable in respect of each accident or series of accidents arising out of one event \$2,000.

DEFINITIONS

- A. The terms "Property Damage" wherever used herein shall mean loss of or direct damage to or destruction of tangible property (other than property owned by the Named Insured).
- B. The term "Damages" includes damages for death and for care and loss of services resulting from personal injury and damages for loss of use of property resulting from property damage.
- C. The term "Vehicle", wherever used herein, shall mean a land motor vehicle, trailer or semi-trailer.
- D. The term "Occurrence" wherever used herein shall mean an accident or a happening or event or a continuous or repeated exposure to conditions which unexpectedly and unintentionally results in personal injury or property damage during the policy period. All such exposure to substantially the same general conditions existing at or emanating from one premises location shall be deemed one occurrence.

EXCLUSIONS TO SECTION II

The indemnity granted by this Section shall not apply to nor include:-

1. Liability for bodily injury sustained by any person arising out of and in the course of employment by the Insured under a contract of service or apprenticeship with the Insured.
2. Liability for claims in respect of loss of or damage to property owned, leased, occupied or used by, or in the care, custody or control of the Insured, provided that where the Contract works consist of alterations and/or extensions, repairs replacements or additions, servicing or the like whether wholly or in part, then this exclusion shall be deemed not to apply to the existing structure or any other Third Party Property (other than the Contract works described in the Schedule) on or about the Contract site.
3. Liability caused by vehicles registered for general road use except whilst such vehicles are in use on the Contract site for the purposes of this Contract or prior agreement of the Insurers having been obtained.

SPECIAL CONDITIONS APPLYING TO SECTION II

1. NOTICE OF LOSS

The Insured shall, upon the happening of any occurrence likely to give rise to a claim under this section of this insurance, and/or upon receipt by the Insured of any notice of any claim or any other subsequent proceedings, give notice in writing with full particulars to the Insurers as soon as possible.

The Insured shall co-operate with the Insurers in the defence of claims suits and in prosecuting appeals and upon the Insurers' request shall attend hearings and trials, and shall assist in effecting settlements, securing and giving evidence, obtaining the attendance of witnesses, and in the conduct of suits. The Insured shall not, except at his own cost, voluntarily make any payment, assume any obligation nor incur any expense.

The Insured shall not repudiate liability, negotiate or make any admission, offer, promise or payment in connection with an occurrence or claim without the written consent of the Insurers.

2. THE INSURED

The word "Insured" shall be deemed to include any Partner, Director, Executive Officer or any employee thereof active within the scope of his duties as such as related to the Insured Contract.

3. CROSS LIABILITIES

This Indemnity extends to indemnify each of the Insured separately in the same manner and to a like extent as though separate policies had been issued in their separate names. In particular (but without limiting the generality of the foregoing) the indemnity shall subject to the terms, conditions and exceptions of the policy indemnify each of the insured in respect of claims made by the other or by servants or agents of the other. However, each Insured shall be separately subject to the terms exceptions and conditions of the Policy in the same manner and to a like extent as though separate policies had been issued to each of the said Insured and the Insurers hereby agree to waive all rights of subrogation or action which they may have or acquire against any of the aforesaid Insured's arising out of any event or occurrence in respect of which any claim is made hereunder.

MEMORANDA

Memo 1 Destruction of Sound Property

It is understood and agreed that in the event of total or partial damage or destruction to the Property Insured, the destruction of sound property necessary for the replacement and reinstatement of the building or structure is covered.

Memo 2 Partial Occupation

Notwithstanding anything contained in the Policy to the contrary this insurance shall continue at premium and terms to be agreed should the Principal or any Tenant or other persons authorised by the Principal enter into occupation of any stage of the works or any portion thereof before completion of the Contract.

Memo 3 Automatic Reinstatement of Loss

It is understood and agreed that in the event of loss or damage by any of the perils insured against to the property within described and in the absence of written notice by the Insurers or the Insured to the contrary, the amount of insurance cancelled by loss is to be automatically reinstated as and from the date of loss the Insured undertaking to pay such premium as may be required for such reinstatement from that date.

Memo 4 Deductible Sections I and II

It is understood and agreed that in the event of a claim under Section I and II arising from one source or original cause the amount of the Deductible shall be limited to the higher of the Deductibles under Section I and II otherwise applicable.

Memo 5 Sue and Labour

In the case of any loss or misfortune it shall be lawful for the Insured, their Factors, Servants and Assigns to sue, labour and travel for, in and about the Defence and safeguard of their interests and to incur any expenses in efforts to avert or minimise a loss which may fall under this policy, the charges whereof will constitute a recovery under this Policy.

GENERAL EXCLUSIONS - APPLICABLE TO ALL SECTIONS OF THIS POLICY

The Insurers will not indemnify the insured in respect of loss, damage or liability directly or indirectly caused by or arising out of:-

- (a) War, invasion, act of foreign enemy, hostilities (whether war be declared or not), civil war, rebellion, revolution, insurrection, mutiny, military or usurped power, or malicious persons acting on behalf of or in connection with any political organisation, confiscation, commandeering, requisition or destruction of or damage to property by or order of the government de jure de facto or by any public authority.
- (b) (i) Loss of or damage to any property whatsoever or any loss or expenses whatsoever resulting or arising therefrom or consequential loss;

(ii) any legal liability of whatsoever nature;

directly or indirectly caused by or contributed to by or arising from
 - (a) nuclear weapons material or ionising radiations or contamination by radioactivity from any nuclear fuel or from any nuclear waste from the combustion or nuclear fuel.
 - (b) wilful act or wilful negligence of the Insured. Notwithstanding the above it is agreed that wilful act or wilful negligence by employees of an Insured shall not be deemed within the above exclusion except in so far as such acts or negligence are with the Insured's knowledge or consent.

GENERAL CONDITIONS

- 1) The due observance and fulfilment of the terms of this Policy insofar as they relate to anything to be done or complied with by the Insured shall be a condition precedent to any liability of the Insurers to make any payment under this Policy.
- 2) The Insured shall promptly notify the Insurers in writing of any material change in the risk insured hereunder; the scope of cover and/or the premium shall, if necessary, be adjusted accordingly.

- 3) Representatives of the Insurers shall at any reasonable time have access to the site or premises and to all pertinent data, documents, drawings etc., and shall have the right to inspect any property insured.
- 4) In the event of any occurrence which might give rise to a claim under the Policy, the Insured shall:-
 - a) Notify the Insurers as soon as possible by telephone as well as in writing, giving an indication as to the nature and extent of loss or damage;
 - b) take all steps within his power to minimise the extent of the loss or damage;
 - c) preserve the damaged parts and make them available for inspection by the Adjusters/Insurers;
 - d) furnish all such information and documentary evidence as the Adjusters/Insurers may require;
 - e) inform the Police authorities in case of loss or damage due to theft or burglary.
- 5) The Insured shall at the expense of the Insurers do and concur in doing the permit to be done all such acts and things as may be necessary or required by the Insurers in the interest or any rights or remedies, or of obtaining relief or indemnity from parties (other than those insured under this Policy) to which the Insurers shall be or would become entitled or subrogated upon their paying for or making good any loss or damage under this Policy, whether such acts and things shall be or become necessary or required before or after the Insured's indemnification by the Insurers.
- 6) This Policy shall in all respects be read and construed and shall operate as a New Zealand Policy in conformity with the laws of New Zealand.
- 7) If a claim is in any respect fraudulent, or if any false declaration is made or used in support thereof, or if any fraudulent means or devices are used by the Insured or anyone acting on his behalf to obtain benefit under this Policy all benefit under this Policy shall be forfeited.
- 8) A breach of any Conditions contained herein by one of the named Insured shall not prejudice any other Insured's interests in this policy provided notice in writing by given to Insurers immediately upon such breach coming to the knowledge of any other Insured.

9) This Policy shall not be cancelled except in the event of termination of the Contract by the Principal. In which case coverage will cease and a pro-rata return premium shall be effected. However, the above shall in no way effect settlement of any circumstances which have resulted in a claim or claims or otherwise which occurred before the cancellation date.

IN WITNESS WHEREOF I being a representative of the Leading Office which is duly authorised by the Insurers have hereunto subscribed my name on their behalf this day of
one thousand nine hundred and eight four.

Examined

AUCKLAND HARBOUR BOARD

CONTRACT NO. 2500

BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

Specification

1. EXTENT OF CONTRACT:

The Contractor shall supply all labour, material, (except for the Australian hardwood for the tower), plant and other things necessary for the carrying out and completion of the works as shown on the accompanying Drawings and as described herein, in accordance with this Specification, the General Conditions of Contract and to the entire satisfaction of the Engineer.

2. GENERAL CONDITIONS

The General Conditions of Contract N.Z.S. 623:1964 shall be read with and included in this Specification.

3. TENDERERS TO INSPECT SITE

The Contractor shall be held to have satisfied himself before tendering, by personal inspection of the site, as to the accuracy of the Specification, Drawings, Schedules etc., or any other information of the kind supplied to Tenderers. He shall also be held to have satisfied himself as to the feasibility of constructing works of the kind and in the manner specified and as to all other matters which can in any way influence his Tender, as no allowance will be made or compensation paid on account of any incorrect or insufficient information on any point and he is further required to inform himself completely of every circumstance connected with the work and to provide in his Tender for every contingency that may arise.

4. MAINTENANCE OF WORKMANSHIP

All works included in this Contract shall be maintained at the specified standard of finish for a period of three months from the date of issue of the Engineer's Certificate of Substantial Completion.

5. STANDARD OF WORKMANSHIP

All construction and maintenance shall be carried out in a workmanlike manner to the entire satisfaction of the Engineer and any minor work not specified, but necessary to the completion of the Contract in accordance with the letter and spirit of the Specification, shall be carried out by the Contractor as if it had been so included.

6. SUPERVISION

The Contractor shall employ a competent and experienced foreman to supervise the work on his behalf and to whom, in the Contractor's absence, instructions may be given by the Engineer.

7. SURVEYING AND SETTING OUT

The Contractor shall be responsible for all setting out of the work in accordance with information supplied by the Engineer and/or shown on the Drawings. The provisions and stipulations set out in Clause 8.10.1 to 8.11 inclusive, of the General Conditions of Contract N.Z.S. 623, shall apply.

8. DESCRIPTION OF WORK

The work to be carried out in this Contract includes the following:-

1. The removal of the lighthouse by water transport to the Board's Buoys and Beacons site at Beaumont Street. Renovation of the lighthouse shall be carried out by others.
2. The demolition and disposal of existing tower and piles.
3. The construction of pile foundation.
4. The construction of a new tower.
5. The transportation and installation of the renovated house on new tower.

9. WORKS AREAS

All enquiries for works area on Board property are to be directed to the Traffic Manager, Ferry Building, Quay Street.

10. ELECTRICITY SUPPLY AND TOILETS

The Contractor shall make his own arrangements with the Auckland Electric Power Board for any electricity supply he may require. He shall be responsible for the supply of all materials for and the installation of all cables, switchgear etc., from the point of supply to where power is required.

11. FLOATING CRANE

The Auckland Harbour Boards floating crane "Hikinui" is available for hire. Conditions of hire are available at the Traffic Manager's Office, Ferry Building, Quay Street.

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12. SUPPLY OF TIMBER

1. Australian Hardwood

The Contractor shall take delivery of Australian hardwood timber at the Principal's Halsey Street Store. The timber will be loaded into the Contractor's vehicles free of charge. The Contractor shall transport to site, protect, store and install the Australian hardwood timber for the tower.

2. Radiata Pine

All Radiata Pine for the landings shall be provided by the Contractor.

13. MATERIAL STANDARDS

All materials shall be the best of their respective kinds and more particularly shall conform as follows:

13.1 Steel

All steel plate and rolled section shall be grade 43A steel and shall conform with B.S.4360:1972 except that dimensions and tolerances for rolled sections shall be in accordance with B.S.4.

13.2 Bolts

- (i) The 1 1/8" dia. bolts and nuts shall have B.S.W thread and conform with N.Z.S.1067.
- (ii) All other bolts and nuts shall conform with A.S. 1111 and A.S. 1112 respectively.

13.3 Galvanising

All steel work is to be hot dip galvanised to produce a zinc coating not less than 0.09mm thick. The bolts are to be galvanised after threading. The nuts and turnbuckle shall be retapped after galvanising to remove the zinc layer on the threads and shall be oiled to prevent rust.

13.4 Australian Hardwood

Australian hardwood shall be free from defective inner heart and shall comply in every respect with N.Z.S 485 Part 5.

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13.5 Radiata Pine

The Radiata Pine shall be pressure treated to N.Z. Timber Preservation Authority Commodity Specification C3 (13.5 kg/cubic metre).

The minimum standard of timber quality shall be No.1 Framing Grade, in accordance with N.Z.S. 3631:1978. All timber shall be rough sawn, except the deck planks, which shall be thickened to 46 mm with one face and both edges remaining rough sawn and the handrails and posts which shall be shaped to the details shown on the drawings.

14. STEEL FABRICATION AND WORKMANSHIP

The preparation and fabrication of all steel plates and sections shall conform with the best trade practice, shall be carried out only by experienced tradesmen and comply with relevant parts of N.Z.S. 1900, Chapter 9, Division 9.4:1965, Sections 9.4.54 to 9.4.75 inclusive.

Wherever possible the steel shall be cut to length by sawing and prepared for welding by milling or grinding. Where cutting is necessary, edges must be ground off to the required shape free of inclusions. All sharp edges shall be de-arissed. Weld splatter, slag etcetera shall be removed and all delamination ground out if practical, or seal welded.

Welding shall be carried out in strict accordance with B.S. 5135:1174. All stressed welds in main structural members, shall be full penetration welds, capable of developing the full strength of the members being joined. In the case of butt welds in rolled sections, where single side welding is used, the back of the weld shall be gouged and a sealing run applied.

In addition, tabs shall be provided at the edges of flanges, to ensure completeness at the start and finish of runs. Tabs shall be removed and the weld ground back to shape when the welding is completed.

In all situations, welds shall be continuous around the perimeter of joints and effectively seal off the meeting

The Contractor shall make all necessary provision for protection of work against adverse weather on the site. No welding shall be undertaken when the steel surfaces are wet or when the air flow over the work exceeds 1 metre per second.

Welding electrodes shall conform with B.S. 639:1972.

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Electrodes shall be stored in their original bundles or cartons in a dry place adequately protected from the weather. Any electrodes which have areas of flux covering broken away shall be discarded.

Welding operators shall hold current certificates in accordance with N.Z.S 4711:1973 - Qualification Tests for Manual Metal Arc Welders. Notwithstanding the holding of a certificate, the Engineer may require any operator to undertake further qualification tests for the weld positions in which he proposes to operate. In the event of failure of the tests, such operators would not be acceptable to the Principal. All welding shall be carried out under the continuous supervision of an experienced shop foreman or welding supervisor, who himself is qualified as an operator.

Inspections and checks appropriate to the location of the weld will be carried out by the Engineer as the work proceeds. All welds may be examined for cracking using a dye penetrant. Any cracked weld shall be cut out and made good. All welds will be subjected to visual inspection and shall be generally sound and free from defects to the satisfaction of the Engineer. The cost of all non-destructive testing shall be borne by the Principal.

All bolt holes shall be drilled to the sizes shown on the Drawings. The threaded portion of each bolt shall project through a nut at least one thread and washers shall be of sufficient thickness to ensure that the unthreaded length of the bolt extends for the full thickness of the parts bolted together. Washers shall be of the type denoted on the Drawings.

Brackets: Minimum diameter of bends shall be five times the plate thickness.

15. TIMBER CONSTRUCTION AND WORKMANSHIP

All timber construction shall be carried out by experienced tradesmen in accordance with best trade practice.

Deck planks shall be fixed to the stringers with two 125mm x 4.5 mm galvanised flat head nails at each stringer. Nails at ends of planks shall be through pre-drilled holes. The rough sawn side of the planks shall face upwards.

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16. PAINTING

16.1 Exposed Steel Work

On completion of galvanising where specified exposed steel shall be degreased and then given one coat of Devran 201 (or similar) then two coats of Devshield 235 (or similar) followed by a finishing coat of white Devthan 239 (or similar) to the manufacturers specifications.

16.2 Timber

Where specified timber shall be given one coat of Devshield 235 (or similar) followed by a top coat of White Devthan 239 (or similar) in accordance with the manufacturers specifications.

17. REMOVAL OF HOUSE

The existing house is to be removed from its tower intact, transported by water and unloaded on the landing at the Board's Buoys & Beacon area, Beaumont Street, Freemans Bay (see Drawing E.2653/1).

18. DEMOLITION OF EXISTING TOWER

The existing timber legs and beams, steel stairway, bracing and piles are to be demolished and removed from the site. With the exception that the Principal reserves the right to retain two samples each of the metal brackets and bracing.

19. PILING

The new piles to support the lighthouse shall be reinforced concrete encased in circular mild steel casings. They shall be constructed to the dimensions and details shown on the Drawings.

19.1 Bore Data

Copies of logs of boreholes taken at the site are included in the Drawings for the information of the Contractor. The data shown presents a factual description of the samples obtained at the various depths and positions indicated, but the Contractor must make his own assumptions and draw his own conclusions from the data.

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19.2 Unsuitable Strata

It is not anticipated that unsuitable strata will be encountered during drilling operations. However, if this is not the case, further investigation may be required at the direction of the Engineer, at rates to be agreed.

19.3 Setting Out

The Contractor shall be responsible for all setting out of the work in accordance with information supplied by the Engineer and/or shown on the drawings. The provisions and stipulations set out in Clauses 8.10.1 to 8.11 inclusive, of the General Conditions of Contract, N.Z.S. 623, shall apply.

19.4 Steel Casings

The steel casings shall be manufactured from mild steel plate, being Grade 43A and complying with B.S.4360:1972, spirally wrapped and welded. The plate thickness and casing diameter shall be shown on the Drawings. Should the Contractor consider that the casing as shown, is not adequate to withstand water and soil pressures likely to be encountered, then he shall say so at the time of tendering and shall submit with his tender, his alternative design for consideration by the Engineer. Welding shall be carried out in accordance with N.Z.S. 1646 (B.S.1856:1964) and all welding operators shall hold current certificates in accordance with N.Z.S. 4711-1973. Accuracy in manufacture shall be such that the circumferential weld between one length of casing and the one adjoining it shall be completely watertight. The whole length of casing shall be completely watertight, when in its final position, prior to concreting and shall be cut off at the level shown on the Drawings.

It shall be the responsibility of the Contractor to ensure that each casing can penetrate any materials likely to be encountered and to ensure that this can occur without buckling, he shall securely fix, to the lower edge of the first section, whatever reinforcing or cutting device he may consider necessary, at his own expense. Before undertaking the manufacture of the casing, he shall advise the Engineer of the cutting edge, if any, proposed to be used.

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19.5 Reinforcement

The steel reinforcing for each pile shall be as shown on the Drawings. The spiral wire binding shall be securely fixed, by spot welding, to every second vertical bar to form a rigid cage. Laps in the vertical bars shall be as shown on the Drawings. Mild steel spacer hoops or rings and lifting hoops shall be provided to the reinforcing cage as and where required by the Contractor. After fabrication, the first individual cage shall be introduced into the steel casing and the next cage welded securely to it and so on, until all separate cages have been joined to form one complete cage, within the casing. Care shall be taken to ensure that the specified cover to the steel bars is maintained throughout the entire length of the pile.

19.6 Concrete

All concrete used for the piles shall be Special Grade with a compressive strength of not less than 35 MPa at 28 days and shall conform with the General Specification for Reinforced Concrete. The minimum cement content shall be 370 kg/cubic metre. The maximum water cement ratio shall be 0.50 and the maximum aggregate size shall be 20mm.

19.7 Drilled Holes for Piles

Holes for founding piles shall be located in the positions shown on the Drawing. The drilling rig shall be capable of maintaining a satisfactory rate of progress and shall be manned by fully experienced operators. The steel casings and concrete piles shall penetrate a minimum of 1 metre and 2.5 metres respectively in solid rock. All material taken from the holes shall be recovered by the Contractor and dumped where directed by the Engineer not more than 250 metres distant.

19.8 Concreting

A tremie method shall be used for placing the concrete. The function of the tremie shall be that of placing the fresh concrete within or under the previously placed charge of concrete and under no circumstances shall concrete be allowed to fall or drop through water.

NOTE: Payment for concreting is per lin. metre.
Contractor to make his own allowance for 'overbreak'.

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20. TOWER

20.1 Construction

The tower is to be reconstructed in accordance with the Drawings and Specifications in Australia Hardwood (supplied by the Principal) and galvanised steel joints and bracings.

The timber legs and beams are to be painted in accordance with clause 16.2. The steel brackets, bracing and turnbuckles shall be painted in accordance with clause 16.1 above.

20.2 Stairway

Provide and install the stairway as detailed in the Drawings. Stringers shall be hot dipped galvanised after attachment of all brackets. Treads to be from treated Radiata Pine.

Handrails shall be fabricated from galvanised steel water pipe fastened together with galvanised "A" clamps. Stringers and handrails are to be painted in accordance with clause 16.1.

20.3 Landing

The landing shall be constructed from treated Radiata Pine to details on Drawings. Bolts and nails to be galvanised. Handrails shall be painted in accordance with Clause 16.2.

20.4 Ladders

Steel ladder shall be provided and fixed as detailed in the Drawings. Ladders shall be hot dip galvanised after fabrication and then painted in accordance with clause 16.1.

21. INSTALLATION OF RENOVATED HOUSE

On completion of the renovation of the house, which will be within five months of its removal, the Contractor shall return it to the Bean Rocks Lighthouse site and re-erect it on the new tower in accordance with the Drawings and Specifications.

22. CONTINGENCY SUM

A contingency sum of \$30,000 shall be included in the Tender Price as Gross Sum Allowance for such unforeseen work, materials or alterations as may be considered necessary or desirable by the Engineer during construction work. Any portion of this sum not authorised for use in writing by the Engineer, will be deducted from the final account.

23. GENERAL

The whole of the work shall be carried out and completed to the entire satisfaction of the Engineer. All materials used shall be the best of their respective kinds and the use of faulty or sub-standard materials will not be tolerated. The Contractor shall, at all times, maintain the site in a tidy, sanitary condition and shall, on completion, leave same in a condition satisfactory to the Engineer.

AUCKLAND HARBOUR BOARD

GENERAL SPECIFICATION FOR REINFORCED CONCRETE

SECTION 1. SITE MIXED CONCRETE

1. CEMENT: Cement shall be either Portland cement or rapid-hardening Portland cement and shall comply in every respect with the requirements of N.Z.S. 3122. Special cement shall be used only with the written consent of the Engineer.
2. AGGREGATES: Fine and coarse aggregates shall comply with the requirements of N.Z.S. 3121. The nominal maximum size of coarse aggregate shall generally be 20mm but, in any event, shall not exceed three quarters of the specified cover or three quarters of the clear lateral distance between adjacent reinforcing bars. Where slab reinforcement is required to have a 20mm cover, the nominal maximum size of aggregate may be 20mm. If the nominal maximum size of aggregate is greater or less than 20mm, the cement content per cubic yard of mixed concrete shall be subject to the approval of the Engineer.
3. WATER: Water shall comply with the provisions of N.Z.S. 3121.
4. STORAGE OF AGGREGATES: The storage and handling of aggregates shall be such as not to result in segregation or contamination by foreign materials. Aggregates of each specified size range shall be brought separately to the place of mixing and shall be stored in such a way as to prevent the materials intermixing. Washed sand shall be allowed to drain to a stable moisture content.
5. STORAGE OF CEMENT: Cement shall be so stored and handled on the site as to be protected against deterioration or contamination and to be capable of being inspected at all times. Any cement which does not comply with the requirements of N.Z.S. 3122 shall be removed from the site of the works.
6. ADMIXTURES: Chemical or air-entraining admixture shall not be used in site mixed concrete without the prior consent of the Engineer.
7. MIX DESIGN: Site mixed concrete shall be either Ordinary Grade or High Grade and shall comply in all respects with the relevant requirements set out in N.Z.S. 1900, Chapter 9, 3A: 1970.
8. MANUFACTURE: Unless otherwise approved by the Engineer, the mixing of concrete shall be done in a batch mixer complying with the provisions of N.Z.S. 3105, or other approved type which will ensure the thorough mixing of all materials. The volume of the mixed material for each batch shall not exceed the manufacturer's rated capacity of the mixer. The entire batch shall be discharged before recharging. The mixing time shall be measured from the time when all the materials are in the mixer drum. The minimum time of mixing shall be 1½ minutes for mixers of 0.75m³ or less capacity and mixers of larger capacity shall have the time of mixing increased by 15 seconds for each additional 0.375m³ capacity or fraction thereof. The drum shall rotate at a peripheral

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speed of approximately 60 metres per minute at a point on the widest section of the drum, or at a speed of 12 r.p.m.

SECTION 2, READY MIXED CONCRETE

1. MIX DESIGN: Ready mixed concrete shall be either High Grade or Special Grade and shall conform in all respects with the relevant requirements set out in N.Z.S. 1900, Chapter 9.3A:1970.
2. MANUFACTURE: Ready mixed concrete shall be produced and delivered to the site of the works in the manner set out in N.Z.S. 2086. Results of tests carried out by the manufacturer shall, if required, be made available to the Engineer on request.
3. ADMIXTURE: Should the manufacturer intend to use chemical or air-entraining admixtures in the Ready Mixed Concrete, this must be made known to the Engineer prior to delivery.

SECTION 3, REINFORCEMENT

1. REINFORCING STEEL: Reinforcing bars shall comply with the provisions of N.Z.S. 3402P:1973. All reinforcing used in stirrups shall comply with the bend test requirements of N.Z.S. 3402P. Welded wire fabric reinforcing shall comply with the relevant requirements of N.Z.S. 3422:1972.
2. STORAGE AND CLEANING: Reinforcement shall be maintained at all times free from damage and contamination, shall be clean and free from all loose mill scale, dust and loose rust, and coatings such as paint, oil or anything which may reduce bond.
3. EXPOSED REINFORCING: Exposed reinforcing bars intended for bonding with future extensions shall be adequately protected from corrosion.
4. COVER TO REINFORCING: The minimum concrete cover to reinforcing steel measured from the outside of the bar shall be as follows unless otherwise specified:

<u>Foundations:</u>	a) against natural ground	75mm
	b) against approved boxing and back-fill or similar	50mm

<u>Beams & Columns:</u>	Principal Reinforcement.	
	a) against natural ground	75mm
	b) against approved boxing and back-fill or similar	50mm
	c) exposed to weather and unplastered	50mm
	d) exposed to weather and plastered	40mm
	e) not exposed to weather	40mm

4. COVER TO REINFORCING: (Cont.)

Beams & Columns: Secondary Reinforcement.

All 12mm less than for Principal Reinforcing.

<u>Slabs:</u>	a) against natural ground	50mm
	b) against approved boxing and back-fill or similar	30mm
	c) exposed to weather and unplastered	30mm
	d) exposed to weather and plastered	20mm
	e) not exposed to weather	20mm

<u>Walls:</u>	a) against natural ground	50mm
	b) against approved boxing and back-fill or similar	40mm
	c) exposed to weather and unplastered	40mm
	d) exposed to weather and plastered	25mm
	e) not exposed to weather	25mm

5. HOOKS: Hooks on bars shall be formed with the point parallel to the shank and with a semi-circular curve having an inner diameter of at least four times the diameter of the bar, except that when a hook fits over a main bar, the inner diameter of the curve may be equal to the diameter of such bar. The length of the straight part beyond the end of the curve shall be at least four times the diameter of the bar forming the hook.

6. LAPS: Hooked bars shall be lapped for a distance of 40 diameters. Bars without hooks shall be lapped for a distance of 54 diameters.

FORMWORK

1. DESIGN AND CONSTRUCTION: Formwork shall be designed in accordance with recognised principles and constructed so that it may be removed without damage to the concrete. All formwork shall be adequately braced and supported to prevent sagging or bulging during the placing of concrete and all joints shall be sufficiently tight to prevent undue leakage of liquid from the concrete. All forms shall be fixed to proper line and level and trued up immediately prior to concreting. Strutting shall be carried down to construction sufficiently strong to afford the required support without permissible stresses being exceeded.

Bolts and other fittings used inside the forms for tying them together during concreting shall be constructed so as to permit their easy removal to a depth necessary to provide the required cover over the reinforcement without injury to the concrete and so that, upon their removal, the cavities can be filled with mortar and the surface left sound, smooth, even and uniform in colour.

1. DESIGN AND CONSTRUCTION (Cont.)

Washout ports shall be provided at the bottom of all concrete lifts and each column; and shall be of adequate size and spacing for their purpose.

2. REMOVAL OF FORMWORK: Formwork shall be removed without shock or vibration and in such a manner as to permit the concrete to take the imposed stresses gradually. After concrete has been placed formwork shall, unless otherwise approved by the Engineer, not be removed until the minimum periods set down below have elapsed. Concrete members shall not be assumed capable of supporting any superimposed loading when the minimum stripping time has elapsed and the construction supports have been removed, nor capable of supporting the design live load until the concrete has reached its design strength, taking due account of frame continuity in both cases.

Minimum removal times are as follows:-

	<u>Very Cold</u>	<u>Temperate</u>
a) beam sides and walls	6 days	2 days
b) columns and slabs in beam and slab construction-props to be left under slabs of span over 1.5m	10 days	5 days
c) props from slabs of span over 1.5m in beam and slab construction	14 days	7 days
d) beam soffits and slab spans exceeding 4.5m	28 days	16 days

CONCRETING

1. ADVERSE CONDITIONS: No concrete shall be placed under unfavourable weather or other undesirable conditions, except with such precautions as the Engineer may approve in writing. Unfavourable conditions shall be deemed to include excessively low air temperatures (i.e. below 4.5 degrees C with temperature descending or below 2.5 degrees C with temperature ascending), excessively hot dry conditions, wet conditions or any other condition making it impossible to work the concrete adequately.
2. CLEANING OF FORMWORK: Immediately before any concreting is commenced, all formwork shall be carefully examined to ensure that all dirt shavings, sawdust and other refuse has been removed by brushing or washing with a hose or other approved means.
3. WETTING FORMS: The inside of timber forms shall be wetted with clean water immediately prior to the placing of concrete unless the forms have been coated with an approved form of dressing. No form dressing other than water, shall be applied after placing reinforcement in the forms. In all cases, surplus liquid shall be removed before concrete is placed.

10. CONCRETE PLACING UNDER WATER: Where it is necessary to place concrete under water, the Contractor shall notify the Engineer in writing, outlining his intended method for placing such concrete. The Engineer may, at his discretion, impose such conditions and control as he considers necessary.

11. DIMENSIONAL TOLERANCES: Where tolerances are not stated in the specifications, as shown on the drawings, permissible deviations from established lines, grades and dimensions shall be determined by the appropriate consideration of the tolerances suggested in N.Z.S. 1900, Chapter 9.3A:1970, Table 8.

AUCKLAND HARBOUR BOARD

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CONTRACT NO. 2500A

BEAN ROCKS LIGHTHOUSE RECONSTRUCTION

Tender Form

To: The Chairman
AUCKLAND HARBOUR BOARD

Sir,

Having examined the Specification, Drawings, Schedule of Quantities and Conditions of Contract for the abovenamed works we offer to execute and perform the several works described and alluded to for the sum of ~~1000... 4000... 8000... 12000... 16000... 20000... 24000... 28000... 32000... 36000... 40000... 44000... 48000... 52000... 56000... 60000... 64000... 68000... 72000... 76000... 80000... 84000... 88000... 92000... 96000... 100000~~ or such other sum as may be ascertained in accordance with the Conditions of Contract.

Downs only

We undertake to complete the works within 16 calendar weeks of the date of the Engineer's order to proceed.

Should this Tender be accepted we undertake to execute a Contract and Bond embodying the aforesaid Specification and Conditions within 28 days of receipt of the same from the Board.

We acknowledge that unless and until a formal Contract Agreement is prepared and executed, this Tender together with the written acceptance thereof shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any Tender you may receive.

We enclose herewith a cheque payable to the Auckland Harbour Board for \$500.00.

Signature [Handwritten Signature]
Name of Company PRECAST CONSTRUCTION LTD.
Box 42021 ORAKI
Address
.....
Telephone 580603

Date 14/04/85

What is the rate for extra excavations
" concrete
not 470% in Japan materials

AUCKLAND HARBOUR BOARD

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Schedule of Quantities

<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1. Provide for all establishment and disestablishment charges. Itemise hereunder and price				
.....	Item	}		25,000 ⁻
.....	Item			
.....	Item			
.....	Item			
.....	Item			
2. Specify and allow for any work to be done, materials and plant to be provided or any special risk, liability or obligation to be undertaken by the Contractor for which no separate item is provided in the Schedule	Item			
.....				
.....				
.....				
.....				
3. Provide for disconnecting house from tower and transporting it to and unloading on site specified.	Item			5800 ⁰⁰

... ..

<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
4. Provide for demolition of existing tower and pile foundations and disposal of demolition material.	Item			\$ 11,400 ⁰⁰
5. Provide for supply of all materials for (except Australian hardwood) and construction of tower in accordance with Drawings and Specifications. Include landing; stairway, ladder and holding down bolts.	Item			\$ 63,700 ⁰⁰

FOUNDATION ALTERNATE 1

6. Piles

Supply all materials for and construct to details and positions shown on Drawings.

6.1 Allow for removal and replacement of packed rock, and disposal of surplus material.	cu. m	40		
6.2 Allow for supply and installation of steel casing	m	42		
6.3 Allow for drilling 600 mm dia hole into foundation rock including disposal of excavated material	m	17.5		
6.4 Allow for supply and placement of reinforcing cage.	m	52.5		
6.5 Allow for supply and placement of concrete in 600 dia. pile	m	52.5		

FOUNDATION ALTERNATE 2

7. Foundation

Supply all materials for & construct to details and positions shown on Drawing K.814.

<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
7.1 Allow for removal and replacement of packed rock, and disposal of surplus material.	cu. m	60		
7.2 Allow for supply and placement of reinforcing.	l.s.			} 75,000 ^{cs}
7.3 Allow for supply and placement of concrete. (Site mixed)	cu.m.	69		
8. Provide for transporting renovated house from Buoys and Beacon Site to Bean Rocks and fixing it in position on new tower in accordance with Drawings and Specification, include the supply and fabrication of the fastenings.	Item			
9. Contingency Sum				\$30,000
TOTAL AMOUNT OF TENDER			ALTERNATE 1	
			ALTERNATE 2	7 220,900 ^{cs}

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BEAN ROCKS' LIGHTHOUSE RECONSTRUCTION

Schedule of Daywork Rates

Tenderers shall set out below hourly rates for skilled and unskilled men and for machines, which will be used for carrying out unscheduled work as directed by the Engineer. All rates shall be all-inclusive and shall be deemed to cover all costs to the Contractor including supervision, overheads and profit. Only hours actually worked shall be paid for.

LABOUR

Type of Worker

Rate per hour
(State days and times applicable)

CARPENTER

100 hours

\$ 25 / hr.

LABOURER

100 hours

\$ 20 / hr.

OPERATOR

100 hours

\$ 22 / hr.

PLANT

Type of Machine

Rate per hour
(inclusive of Operator)

to be advised.

MATERIALS

(Nominate percentage addition to cost price 20%^{20%})

AUCKLAND HARBOUR BOARD

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Schedule of Current Market Prices

For the purposes of Clause 22. 2. 2 of the General Conditions of Contract, the Tenderer shall detail in this Schedule any materials and the ruling market price prevailing in New Zealand, at the date of Tendering, of such materials to which such Clause shall apply.

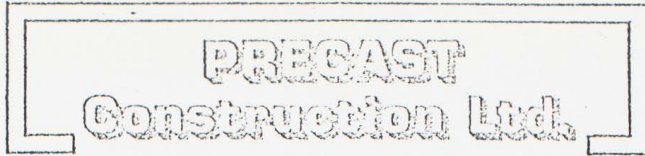
Any materials not priced in this Schedule will not be subject to the provisions of Clause 22.

Unless otherwise described all rates shall be construed as being ex Merchants' store at Auckland.

<u>ITEM</u>	<u>MATERIAL</u>	<u>UNIT</u>	<u>RATE</u>
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to be advised.

MS:
MELLISOP
ENGINEER, C.ENG.
HIGGS



PHONE:
AK 530-8471
P.O. BOX 53107
EAST TAMAKI

CIVIL ENGINEERS — AUCKLAND, NEW ZEALAND

24 April 1985

The Secretary
Auckland Harbour Board
P.O. Box 1259
AUCKLAND

ATTN. Mr L. Jones

CONTRACT 2500A - BEAN ROCK LIGHTHOUSE

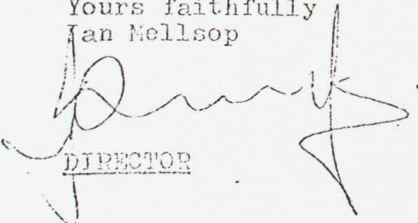


Dear Sir

We advise the following rates as requested at recent meeting Mellisop/AHB Engineers.

- (1) Extra excavation below levels on drawings \$150/m³ up to a maximum of 1m in depth extra.
- (2) Extra concrete to above excavation \$400/m³
- (3) Plant hire charges
 - a. Barge \$200/day (or part of)
 - b. Work boats
Arran Bee (jet barge) \$300/day
Tug \$160/hour plus \$28/hour deck hand on barge if towed
 - c. Crane \$80/hour
 - d. Helicopter \$1000/hour
 - e. Any other plant or small equipment at current Airhire price list plus 20%
- (4) Concrete as per Ready Mix Concrete Ltd published price list effective at date of tender.
- (5) Labour rates as construction workers award 18.2.85.

Yours faithfully
Ian Mellisop


DIRECTOR



