TAWAS LIGHT STATION, MICHIGAN. 882

Repairs and Improvements (a)
Supplies and Equipment (b)
Characteristic (c)
Fuel and Provisions (d)
Miscellaneous (e)

REFERENCE SERVICE SLIP

SHADED BOXES FOR NARA USE ONLY

DATE (MM/DD/YYYY)	TRACKING NUMBER
05/21/2019	

LAST NAME (PRINT)	FIRST NAME (PRINT)	RESEARCHER CARD NUMBER
Del Nunzio	Jack	196628

SERIES OR COLLECTION NAME

Records of the United States Coast Guard, Correspondence of the Bureau of Lighthouses, 1911-1939

RECORD GROUP NUMBER/ COLLECTION DESIGNATION	ENTRY NUMBER	NATIONAL ARCHIVES IDENTIFIER (OPTIONAL)	BOX/ITEM NOS. REQUESTED
26	50		743, 744

STACK	ROW	COMPARTMENT	SHELF	NUMBER OF BOXES/ITEMS PULLED
11E4	11	6	6	

OTHER RECORD IDENTIFICATION INFORMATION [SPECIFY FOLDER TITLE(S)/FILE NUMBER(S)]

File 882

11E4, 9/11/11 →

REQUEST REVIEWED BY	REQUEST PULLED BY

RECEIVED BY	DATE (MM/DD/YYYY)	REFILED BY	DATE (MM/DD/YYYY)

NATIONAL ARCHIVES AND RECORDS ADMINISTRATION

DO NOT REMOVE FROM RECORDS

See the back of this form for the Privacy Act Notice that applies to the information you are providing on this form.

NA 14001 (05-18)
Required by NARA 1572

Form 70

RECOMMENDATION AS TO AIDS TO NAVIGATION

882-A

Department of Commerce and Labor

LIGHTHOUSE SERVICE

OFFICE OF LIGHTHOUSE INSPECTOR, 11th DISTRICT,

Detroit, Mich., Sept. 26, 1912. , 191

BUREAU OF LIGHT-HOUSES
SEP 30 1912
DEPT. OF COMMERCE AND LABOR

THE COMMISSIONER OF LIGHTHOUSES:

The following recommendation is submitted for the consideration of the Bureau:

1. Name of aid: Tawas Light Station.
2. Locality: Lake Huron, Mich.
3. Proposed action: Change in illuminant.
4. Necessity: To increase efficiency and make possible the abolishment of 2d Assistant Keeper's position.
5. Estimated cost: 1219.00
6. Maintenance estimated, annual cost: $40.00
7. Additional description and information: Above recommendation in accordance with the project approved by the Bureau May 21st, 1912, item #6 of recommendation from this office April 22nd, 1912. Payment to be made from funds allotted General Expenses Lighthouse Service, 1913.

PPP

In the absence and by direction of
The Inspector:

Department of Commerce and Labor

BUREAU OF LIGHTHOUSES

Washington, October 2, 1912.

Returned to the Inspector, authorized ~~as requested, except as noted. You will proceed with the work, report its status, until completed, in your Monthly Report of Operations, and place in commission after proper Notice to Mariners has been issued.~~ **pending investigation of reasonableness of prices charged by AGA Co.**

4/10/13 wrote 11th Insp.

11—4054

Acting *Commissioner.*

Form 70

RECOMMENDATION AS TO AIDS TO NAVIGATION

8829

LIGHT JUL 23 1914 HOUSES

CAP-J

Department of Commerce and Labor

LIGHTHOUSE SERVICE

OFFICE OF LIGHTHOUSE INSPECTOR, Eleventh DISTRICT,

Detroit, Mich., July 21, 1914

THE COMMISSIONER OF LIGHTHOUSES:

The following recommendation is submitted for the consideration of the Bureau:

1. Name of aid: Tawas Light Station.
2. Locality: Lake Huron, west side, Michigan.
3. Proposed action: Change illuminant from oil to IOV.
4. Necessity: Increased efficiency.

5. Estimated cost: $300.
6. Appropriation: General Expenses, Lighthouse Service, 1915.
7. Payment: To be made from funds allotted. when available.
8. Maintenance estimated, annual cost: Slight increase in oil consumption.
9. Additional description and information:

This light marks a very good harbor of refuge and it is desirable that it may be readily picked up at some distance. It is proposed to install a 35 mm. type B oil vapor apparatus in the present lens, maintaining the present characteristic and installing a revolving screen inside the lens to effect the occultations, taking the place of the present vertically hoisted sleeve. The arrangement will be the same as used at Superior Entry, Wisconsin.

~~Hydrog.~~
~~Engr. Cons.~~
Mar. Engr.
Personnel
Accounts.
Contracts
~~Chf. Clk.~~
~~Dep. Commr,~~
Commr.

Woodruff.

Oil — 2900 ft. white, 870 ft. red
Mar 7/24
Dft's comments include in indorsement. J.G.K. 7/25/14.

Department of Commerce and Labor

BUREAU OF LIGHTHOUSES

Washington, July 25, 1914.

Returned to the Inspector, authorized as requested, except as noted. You will proceed with the work, report its status, until completed, in your Monthly Report of Operations, and place in commission after proper Notice to Mariners has been issued. Payment to be made from funds allotted when available.

11—4054

Acting *Commissioner.*

Inclosure Received

882 A

SPECIAL

Form 80
DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

RECOMMENDATION AS TO AIDS TO NAVIGATION

OFFICE OF LIGHTHOUSE ~~INSPECTOR~~ Superintendent Eleventh DISTRICT.

CAP-AKP/
Enc.

THE COMMISSIONER OF LIGHTHOUSES:

Detroit, Mich., March 17, 1921~~xxx~~ 191

The following recommendation is submitted for the consideration of the Bureau:

1921 MAR 19 AM 8 49

1. Name of aid: **Tawas Light Station.**
2. Locality: **Lake Huron, Michigan.**
3. Proposed action: **Move present Keeper's dwelling at Ecorse Light Station to Tawas Light Station, and improve same to serve as residence for two Assistant Keepers.**
4. Necessity: **The Assistant Keepers at Tawas Light Station are now living in temporary quarters little better than shacks. It is necessary that some suitable housing facilities be provided at the earliest practicable date.**
5. Total estimated cost: **$6400.00.**
6. Appropriation: **G.E.'21 Material $2500.00, G.E.'22 when available, Labor $3900.00.**
7. Payment: To be made from funds allotted. **So far as available.**
8. Maintenance estimated, annual cost: **No charge.**
9. Authority is also requested to purchase the material needed, and not now on hand, at an estimated cost of $**2500.00**, in accordance with law and regulations, and to do the work by contract $_____ bond $_____; hired labor ~~and depot force~~ $ **3900.00** ; crew of vessels $_____ This method of performance being considered the cheapest and most advantageous to the service.
10. The reasons for requesting authority to do this work partly or wholly by hired labor rather than contract are: **Work is in such a location and of such nature that it can be much more cheaply carried out by the regular field construction force of the district.**

Blue Prints Filed in Eng'r Div.
No. 2-T-4 Filed 4/6/21

11. Additional description and information: **The Bureau has approved of the dismantling of structures along Fighting Island Channel now replaced by non-attended lights, including the dwelling at Ecorse Light Station which was built in about 1904. The building for the most part is in good condition and is well suited for modification into a dwelling for two keepers. It is proposed to move this dwelling to Tawas Light Station in such manner as may be found most economical, and to erect there the modified dwelling shown on blueprints #10752 and #10753 herewith. In connection with this work it is proposed to utilize any other material such as roofing, brick, framing lumber, etc. obtainable from other structures to be dismantled along the Fighting Island Channel. It is expected that the larger part of the materials which need to be purchased can be purchased under the current appropriation, making it possible to deliver them in readiness for carrying out the remainder of the work under the Appropriation G.E. '22 when available. Specifications**

D
Set inclosures.

DEPARTMENT OF COMMERCE
BUREAU OF LIGHTHOUSES
MAR 26 1921

No obligations to be incurred under the appropriation, General Expenses, Lighthouse Service, 1922, until funds are allotted and available. You are requested to advise the Bureau, as a matter of information, why stucco lathing is to be put on vertically.

Commissioner.

Form 83

ESTIMATE OF COST OF PROPOSED WORKS

882-A

CAP-AKP.

Department of Commerce and Labor

LIGHTHOUSE SERVICE

LIGHTHOUSES Enclosure

NAME OF AID: Tawas Light Station.

OFFICE OF LIGHTHOUSE ~~INSPECTOR~~ Superintendent 11th DIST.

1921 MAR 19 AM 8 49

PROPOSED WORK: Move present dwelling at Ecorse Light Station to Tawas Light Station and improve same to serve as residence for two Assistant Keepers.

Detroit, Mich., March 17, 1921 ~~1921~~

ITEMS, QUANTITIES, AND UNIT PRICES	AMOUNT
1. Excavating and preparing site:	$ 50.00
2. Brick walls and piers, 19000 at $30.00, in place	570.00
3. Sewers and drains in place;	100.00
4. Plumbing, roughed in, one kitchen sink	170.00
5. Lumber and millwork, including storm sash, glass and screens	1150.00
6. Outside stucco, 250 yds. at $1.50	375.00
7. Lathing and plastering, 850 yds. at $1.00	850.00
8. Roofing, 24 square at $15.00	360.00
9. Hardware,-gutters and metal work . .in place	225.00
10. Painting and varnishing	250.00
11. Carpenter labor, including subsistance	1200.00
12. Sidewalks and grading, cellar floor, footings, etc.	250.00
13. Contingencies and incidentals	500.00
14. Heating plant installation	300.00
15. Window shades	50.00
Total	$ 6400.00

ENG. CONST. FILES

Dist. Blue Prints Folio No. 2-T-4

Cuts Spec. Box

Photos Titles

Date filed

Estimate prepared by OGB-AKP.

11—940

Form 80
DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

RECOMMENDATION AS TO AIDS TO NAVIGATION

OFFICE OF SUPERINTENDENT OF LIGHTHOUSES. 11th DISTRICT.

882A

CAP:ES.
3 Encls.

Detroit, Mich. Nov. 7th 1921

THE COMMISSIONER OF LIGHTHOUSES:

The following recommendation is submitted for the consideration of the Bureau:

1. Name of aid: **Tawas Light Station.**
2. Locality: **Lake Huron, Michigan.**
3. Proposed action: **Additional work in connection with the ~~construction of~~ remodeling and improving double residence for Assistant Keepers.**
4. Necessity: **See below.**
5. Total estimated cost: **$2000.00.**
6. Appropriation **General Expenses 1922.**
7. Payment: To be made from funds allotted **and available.**
8. Maintenance estimated, annual cost: **No change.**
9. Authority is also requested to purchase the material needed, and not now on hand, at an estimated cost of **$450.00**, in accordance with law and regulations, and to do the work by ~~contract~~ ~~bond~~, ~~xxxxxxxxx~~, hired labor ~~and depot force~~ **$ 1550.00**; ~~crew or vessels $~~ ~~xxxxxxxxxxxxxxxxxxxx~~. This method of performance being considered the cheapest and most advantageous to the service.
10. The reasons for requesting authority to do this work partly or wholly by hired labor rather than contract are: **Additional work can be most economically and advantageously carried out by the construction force engaged in the construction of the building.**
11. Additional description and information: **Form 80 of March 17th, 1921, recommended the construction of a double residence for Keepers at this station at a cost of $6400. utilizing materials removed from discontinued stations in the lower Detroit River.**

Due to the necessity of grading, constructing a retaining wall around the premises, constructing a double privy and making change in the heating plants from hot air as originally proposed to hot water, the total cost of the work will be increased to $8400.00 and the Bureau's approval of the increased expenditure is requested.

Detailed estimate of the additional work is given on attached form.

ENG. CONST. FILES
Dist. 11 Folio 2-T-5 No.

Superintendent of Lighthouses.

Costs ✓ Spec. Box.
Photos Titles
Date filed 11/14/21

DEPARTMENT OF COMMERCE
BUREAU OF LIGHTHOUSES
Washington, Nov.10,1921.

Returned to the Superintendent of Lighthouses, approved as recommended, except as noted. You will proceed with the work and report its status, until completed, in your Monthly Report of Operations. **Note Bureau change of wording in Item 3 above. "Construction" of a keeper's residence would not be authorized from General Expenses, Lighthouse Service.**

G. R. PUTNAM

Commissioner.

11—4055

Form 83

ESTIMATE OF COST OF PROPOSED WORKS

8827A

Department of Commerce and Labor
LIGHTHOUSE SERVICE

NAME OF AID: Tawas Light OFFICE OF LIGHTHOUSE INSPECTOR, 11th DIST.

PROPOSED WORK: Install A. G. A. illumination. Detroit, Mich., Sept. 26, '12.

BUREAU OF LIGHT-HOUSES
SEP 30 1912
DEP'T OF COMMERCE AND LABOR

Enclosure.

ITEMS, QUANTITIES, AND UNIT PRICES	AMOUNT
Single flasher K-130 equipped with gear for long light periods,	170.75
Sun Valve,	135.00
Special Sun Valve Piping,	8.00
Special Sun Valve Bracket, (11th Distr. Shops),	3.00
6 Accumulators A-50, charged with gas, at $136.00,	816.00
65 feet 8mm copper-covered steel tubing, at .30,	19.50
Fittings, complete, for 6 tank installation,	67.65
Total Est. Cost of materials,	$1219.90

Work of installing apparatus to be performed by lampist.

Estimate prepared by R. R. T.

11—940

Form 80
DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

RECOMMENDATION AS TO AIDS TO NAVIGATION

OFFICE OF SUPERINTENDENT OF LIGHTHOUSES

882

DISTRICT, 11th

WGW:VZ

LIGHTHOUSES

Detroit, Michigan, October 31, 19 34

1934 NOV. 2 AM 9:13

THE COMMISSIONER OF LIGHTHOUSES:

The following recommendation is submitted for the consideration of the Bureau:

1. Name of aid: Tawas Light Station.
2. Locality: Lake Huron, West side.
3. Proposed action: Provide electric current to dwellings and change main light to electric with electric motor drive.
4. Necessity: Modernize station.

Ok/cal Wt 11/3

5. Total estimated cost: $1200.00
6. Appropriation: General Expenses, 1934.
7. Payment: To be made from funds allotted.
8. Maintenance estimated, annual cost: Increase $180.00
9. Authority is also requested to purchase the material needed, and not now on hand, at an estimated cost of $200.00, in accordance with law and regulations, and to do the work by contract without bond, $600.00; hired labor and depot force, $400.00; crew of vessels, $. This method of performance being considered the cheapest and most advantageous to the service.

(If it is proposed to do the work partly or wholly by hired labor rather than by contract, give reasons therefor under Item 10.)

10. Description, location, and other information: Installation of electric motor drive and main light support can be best accomplished by district personnel. A 300 watt PS 35 lamp with C7 filament will be used. There will be no change in characteristic except an increase in candlepower to 13,000 for white and 3900 for the red sector. An allowance of 30 K.W.H. per month and 10 lamps per year is recommended for each of the three keepers.

C

H. D. Dueson

Superintendent of Lighthouses

DEPARTMENT OF COMMERCE
BUREAU OF LIGHTHOUSES

Washington, November 3, 1934.

Returned to the Superintendent of Lighthouses, approved as recommended, except as noted. You will proceed with the work and report its status, until completed, as required by regulations or instructions.

For the Commissioner:

H. D. KING

Commissioner.

11—4055

Form 80
DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

WGW:MD

RECOMMENDATION AS TO AIDS TO NAVIGATION

OFFICE OF SUPERINTENDENT OF LIGHTHOUSES 11th DISTRICT

882

Detroit, Michigan, October 30, 1934.

THE COMMISSIONER OF LIGHTHOUSES:

The following recommendation is submitted for the consideration of the Bureau:

1. Name of aid: Tawas Light Station
2. Locality: Lake Huron, West Side.
3. Proposed action: Complete road.
4. Necessity: Economy in delivery of supplies.
5. Total estimated cost: $1200.00.
6. Appropriation: G.E. 1935.
7. Payment: To be made from funds allotted.
8. Maintenance estimated, annual cost: $50.00.
9. Authority is also requested to purchase the material needed, and not now on hand, at an estimated cost of $ 200.00, in accordance with law and regulations, and to do the work by contract without bond, $ 1000.00 hired labor and depot force, $ --- ; crew of vessels, $ ---- . This method of performance being considered the cheapest and most advantageous to the service.

(If it is proposed to do the work partly or wholly by hired labor rather than by contract, give reasons therefor under Item 10.)

10. Description, location, and other information:

The total length of road is about 3000 lineal feet, nearly half of which has been completed under the C.W.A. project last winter. See letter of explanation attached, also E.R.A. forms, which are to be returned to this office.

F. O. Dillon

Superintendent of Lighthouses

DEPARTMENT OF COMMERCE
BUREAU OF LIGHTHOUSES
Washington,

882

November 8, 1934.

Returned to the Superintendent of Lighthouses, approved as recommended, except as noted. You will proceed with the work and report its status, until completed, as required by regulations or instructions.
See Bureau letter of this date.

For the Commissioner:

H. D. King
Deputy *Commissioner.*

11—4055

Form 80
DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

RECOMMENDATION AS TO AIDS TO NAVIGATION

OFFICE OF SUPERINTENDENT OF LIGHTHOUSES 11th DISTRICT.

882

ENCLS. FRB.MD

THE COMMISSIONER OF LIGHTHOUSES: Detroit, Michigan, Sept. 18, 1935.

The following recommendation is submitted for the consideration of the Bureau:

1. Name of aid: Tawas Light Station, Michigan
2. Locality: Lake Huron, West shore

LIGHTHOUSES
1935 SEP 23 AM 8:24
Received

3. Proposed action: Repair and construction of roadway into station over lighthouse reservation.

4. Necessity: Provide a roadway into station, decrease maintenance, particularly as regards delivery of supplies.

5. Total estimated cost: $3500.
6. Appropriation: W.P.A. funds.
7. Payment: To be made from funds allotted. Appropriation Symbol 002069-3
8. Maintenance estimated, annual cost: $50 for roadway, decrease overall operating costs.
9. Authority is also requested to purchase the material needed, and not now on hand, at an estimated cost of $ 320. , in accordance with law and regulations, and to do the work by contract ----- bond, $ --- ; hired labor and depot force, $ 3180. ; crew of vessels, $. This method of performance being considered the cheapest and most advantageous to the service.

(If it is proposed to do the work partly or wholly by hired labor rather than by contract, give reasons therefor under Item 10.)

10. Description, location, and other information: Reference is made to Bureau letter Dated Sept. 7, 1935, in which the office is directed to submit Form 80 covering improvements to roadway at Tawas Light Station, Michigan, from W.P.A. funds. Bureau attention is invited to Form 80 approved Nov. 8, 1934, Bureau file 882, and previous correspondence with regard to improvement to roadway into this station which was never carried out. It will be proposed to carry out this work by force account, placing it under charge of a district foreman, if practicable. There is also enclosed copy of Treasury Form A-16 for this project, with data under items 1 to 10 (omitting 5).

E. P. Dillon

Superintendent of Lighthouses.

DEPARTMENT OF COMMERCE
BUREAU OF LIGHTHOUSES
Washington, September 24, 1935

Returned to the Superintendent of Lighthouses, approved as recommended, except as noted. You will proceed with the work and report its status, until completed, as required by regulations or instructions. subject to favorable action by Works Progress Adm.

6

Acting Commissioner.

11—4055 U. S. GOVERNMENT PRINTING OFFICE: 1931

NAME OF AID: Tawas Light Station, Michigan

PROPOSED WORK: Repair & construction of roadway into station.

OFFICE OF SUPERINTENDENT OF LIGHTHOUSES 11th DIST.
1935 SEP 23 AM 8 25
Detroit, Michigan, Sept. 18, 1935.

11—8384

ITEMS, QUANTITIES, AND UNIT PRICES	AMOUNT
800 cu.yds. gravel @ 15¢ loaded on truck	$ 120.00
400 cu.yds. clay, @ 10¢ " " "	40.00
10 tons hay, @ $10	100.00
Truck hire, haul 800 cu.yds. gravel, 22 mi. @ 10¢ per yard mile	1600.00
Truck hire, haul 400 cu.yds. clay, 8 mi. @ 10¢ per ton mile,	320.00
Labor, pick and shovel work, 20 man months, @ $45	900.00
Superintendence, 3 mo. @ $120.	360.00
Miscellaneous materials and equipment	60.00
	3500.00

Estimate prepared by F.R.B.

TREASURY FORM A-16 — OPERATING AGENCY'S STATEMENT OF WORK PROJECT REQUIREMENTS — 6182

8821

TO: THE COMMISSIONER OF ACCOUNTS AND DEPOSITS,
U. S. TREASURY DEPARTMENT, WASHINGTON, D. C.

LIGHTHOUSES

DATE SEP 6 37

FROM: _____
(OPERATING AGENCY – DEPARTMENT AND BUREAU)

THE FOLLOWING INFORMATION IS SUBMITTED IN CONNECTION WITH WORK PROJECT NO. _____ COVERED BY THE ATTACHED ADVICE OF ALLOTMENT BEARING THE SAME NUMBER. THIS ALLOTMENT HAS BEEN MADE OUT OF THE TOTAL OF $_____ SET ASIDE FOR OFFICIAL PROJECT NO. _____ IN ACCORDANCE WITH N.E.C. NO. _____.

THE OPERATING AGENCY WILL INSERT THE FOLLOWING IDENTIFICATION NUMBERS WHICH MUST APPEAR ON ALL ACCOUNTING DOCUMENTS SUBMITTED TO THE TREASURY.

1. OFFICIAL PROJECT NO. _____
2. ALLOTMENT NO.) _____
   WORK PROJECT NO.)
3. TYPE OF WORK SYMBOL _____
4. APPROPRIATION SYMBOL _____

8 25

_____ _____
(SIGNATURE) (TITLE)

1. AMOUNT ALLOTTED FOR THIS WORK PROJECT $ 3500.

2. OPERATING AGENCY'S FIELD REPRESENTATIVE IN CHARGE F. P. DILLON, Superintendent of Lighthouses
(NAME) (TITLE)
(ADDRESS) 3760 E. Jefferson Ave., Detroit, Michigan

3. LOCATION OF WORK PROJECT: (A) STATE MICHIGAN (B) COUNTY Iosco
(C) CITY East Tawas (D) OTHER IDENTIFICATION _____

4. DESCRIPTION OF WORK PROJECT Improve 5/8 mi. roadway on Lighthouse Reservation

5. OPERATING AGENCY'S IDENTIFICATION NUMBER (WHERE WORK PROJECT NUMBER IS NOT ASSIGNED) _____

6. ESTIMATED EMPLOYMENT REQUIREMENTS:

TYPE OF LABOR	AVERAGE DAILY EMPLOYMENT THROUGHOUT ENTIRE PROJECT	ESTIMATED NUMBER OF WORKERS NEEDED FOR FIRST FOUR WEEKS OF OPERATION			
		1ST WEEK	2ND WEEK	3RD WEEK	4TH WEEK
UNSKILLED	8	8	7	8	8
INTERMEDIATE	7	6	6	7	7
SKILLED					
PROFESSIONAL AND TECHNICAL					
CLERICAL					
SUPERINTENDENCE	1	1	1	1	1
TOTAL	16	15	14	16	16

7. APPROXIMATE DATE OF STARTING WORK Oct 5 1935

8. DURATION (IN MONTHS) OF WORK PROJECT 3

9. APPROXIMATE DATE THE FIRST PAYROLL WILL BE REQUIRED OF THE TREASURY DISBURSING OFFICE: Nov. 16

10. ESTIMATED AMOUNTS OF PAYROLL DISBURSEMENTS: (A) FIRST SEMI-MONTHLY PERIOD $ 760
(B) MAXIMUM FOR ANY SEMI-MONTHLY PERIOD 830

ADDITIONAL STATEMENT FOR NON-FEDERAL PROJECTS ONLY

1. SPONSOR _____ (A) ADDRESS _____
2. OTHER FUNDS TO BE USED WITH THE ALLOTMENT FOR THIS PROJECT:
(A) FEDERAL LOAN $ _____ (B) OTHER FUNDS $ _____

EXPLANATORY NOTES

1. A WORK PROJECT IS DEFINED IN TREASURY REGULATIONS NO. 1 AS A "PARTICULAR JOB OR SUBDIVISION OF AN OFFICIAL PROJECT, AS DESIGNATED BY AN ADMINISTRATOR. IT MAY BE A SINGLE WORK RELIEF JOB OR A GROUP OF JOBS IN A PARTICULAR LOCALITY UNDER A PROJECT MANAGER. A WORK PROJECT MAY BE IDENTICAL WITH AN OFFICIAL PROJECT OR IT MAY BE A SUBDIVISION OR PART OF AN OFFICIAL PROJECT FOR WHICH SEPARATE LIMITATIONS ARE TO BE OBSERVED THROUGH ADMINISTRATIVE ACCOUNTS". WHEREVER POSSIBLE A WORK PROJECT SHOULD BE A SINGLE, CONTIGUOUS JOB OCCURRING WITHIN ONE COUNTY, OR ALMOST ENTIRELY WITHIN ONE COUNTY AND ONLY PARTLY IN AN ADJACENT COUNTY. IN THE LATTER CASE, THE COUNTY IN WHICH THE LARGER PART OF THE JOB IS DONE SHALL BE REFERRED TO AS THE LOCATION OF THE WORK PROJECT. SEPARATE FORMS ARE REQUIRED FOR EACH WORK PROJECT AS DEFINED ABOVE.
2. THE OPERATING AGENCY IS THE FEDERAL AGENCY WHICH HAS PRESENTED THE APPLICATION TO THE NATIONAL EMERGENCY COUNCIL.
3. THE SPONSOR IS A PUBLIC BODY WHOSE PROJECT APPLICATION HAS BEEN TRANSMITTED TO THE NATIONAL EMERGENCY COUNCIL BY THE OPERATING AGENCY.

ADDRESS ALL COMMUNICATIONS TO
SUPERINTENDENT OF LIGHTHOUSES
3760 JEFFERSON AVENUE, EAST
DETROIT, MICH.

DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

1935 DEC 23 AM 9 52

882

OFFICE OF SUPERINTENDENT 11TH DISTRICT
DETROIT, MICH.

FPD:MD

Enc. Enclosure Received

December 20, 1935

Commissioner of Lighthouses,
Washington, D. C.

Wrote 12/31/35

Subject: Tawas Light Station
Reference: 11th Dist. memo dated 7-9-35.

To review conditions in support of the recommendation on Form 80 attached, a summary of facts is made as follows:

Personnel

Keeper	Salary	$1560
1st Asst. Keeper	"	1320
2nd " "	"	1260

The keeper is about to retire on disability.

Aids to Navigation

Motor driven electric light in 4th order lens.
Commercial current, masonry tower.
Diaphone.

Light station

Located on low sandy spit, fog signal on point distant five-eights mile from tower and dwellings. Keeper's dwelling and one double dwelling for assistants, all in need of modernization, water supply, plumbing.

Estimated cost to modernize $6500

A road is under contract to the light station which will give good connection to East Tawas, four miles distant or about 10 to 15 minutes drive by automobile.

On account of lack of natural drainage and age and condition of dwellings, modernization and sanitation are difficult and costly; a water supply from well source doubtful and unreliable.

Conclusion

The most economical development recommended on account of the adverse location is to move the keepers to town where quarters may be rented and where a water and sewage system is provided; equip the fog signal house as a watch house; retain a garage for parking of cars; furnish a truck for transportation and hauling of supplies; establish a routine of watches at the fog signal house and have the keepers live in town. Such of the buildings as are not required after a two-year trial to be disposed of by sale or otherwise.

(continued)

One Brick - Other 2 family Stucco both fair but not mod

882

FPD:MD

December 20, 1935

To Commissioner of Lighthouses - 2.

A saving in coal of 24 tons per year	-	$288
An additional expenditure allowance for rent. . .	+	720
A saving in maintenance on dwellings, est. . . .	-	300
An additional expense on maintenance of truck. .	+	360
A saving in light.	-	108

696.
1080.

The figures indicate it would be a better policy to retain the station, modernize it if a satisfactory water and sewage supply could be provided at a cost of $6500, which is doubtful.

ADDRESS ALL COMMUNICATIONS TO
SUPERINTENDENT OF LIGHTHOUSES
3760 JEFFERSON AVENUE, EAST
DETROIT, MICH.

DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

LIGHTHOUSES
MAR 24 8 51 AM '38

OFFICE OF SUPERINTENDENT 11TH DISTRICT
DETROIT, MICH.

HDW:MD
Encls. Received

March 22, 1938

882

Commissioner of Lighthouses,
Washington, D. C.

3/24

11th District Form 80, 1/26/38, Tawas Light Station, Project 1580; Bureau endorsement thereon 3/8/38.

3/25

The original project as set up at an estimated cost of $950.00 involved the drilling of a shallow well to only a depth of 26 feet, and called for a casing size of six inches in diameter, in order to permit the installation of the pitless pumper of the Howell type, also to gravel pack the well. This work included drilling the well and furnishing standard galvanized 6 inch diameter well casing and when it was found necessary to go on deeper, it was extended to a greater depth, hence the cost of $6.00 per foot for the entire depth.

In the case of the well at Keweenaw Waterway, a price of $2.00 per foot covered only the drilling of the well, which was a four inch well rather than six inch as at Tawas, and in addition it was necessary to purchase casing which cost 65 cents per foot, which makes the total cost at $2.65 per foot for the well at Keweenaw Waterway for a four inch well.

At the time of extending the well at Tawas, bids were obtained on a casing and it ran $1.20 per foot.

As requested in Bureau endorsement, there are attached for completion of Bureau files, a copy of the original contract, Proposal No. 5191, and a copy of the modification or the contract for extension of the well, Proposal No. 5363.

Any further action

3/29/38

3/29

Form 114

EJS:MD

ABSTRACT OF BIDS

DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

MAR 24 Proposal No. 5191

882

OFFICE OF SUPERINTENDENT OF LIGHTHOUSES, 11th DISTRICT

Detroit, Michigan, May 28, 19 37

ABSTRACT OF BIDS opened at 11 a. *M., on* May 28, 19 37

for construction of well --- TAWAS
Project 1580

NAME OF BIDDER	AMOUNT OF BID	TIME OF COMPLETION OR DELIVERY	REMARKS Indicate recommendation for award by check line (------)
Mark McKay, R.F.D., Grindstone City, Mich.	no bid recd.		
George Collier, Sebewaing, Mich.	do		
Clarence Chadwick, Deford, Mich.	494 70	30 d.	
Grand Howell, Gagetown, Mich.	no bid recd		
	do		
Ollie Spencer, Box 88, Fairgrove, Mich.			
Edward Christman, West Branch, Mich.	do		
Franz Johncke, Alpena, Mich.	do		
Centala Bros., Metz, Mich.	do		
John Finger, Prescott, Mich.	do		
John Kernstock, R.F.D., Box 184, Bay City, Mich.	do		

PUBLIC NOTICES WERE POSTED AND PAID ADVERTISEMENTS WERE INSERTED IN PUBLICATIONS, AS SHOWN HEREON OR ON SHEET ATTACHED.

11th Dist.Office, Detroit.

Bid of $494.70 by Clarence Chadwick very reasonable. Recommend acceptance. E.J.S.

AWARD OR RECOMMENDATION: Clarence Chadwick - low bid $494.70.

BIDS OPENED IN THE PRESENCE OF:

/s/ E. J. Schaefer

H.D.W.

ORDER PLACED
JUN 2 1937
MSS

11—4063

Standard Form 33 (Revised)
Approved by the Secretary of the Treasury
July 12, 1935

EJS:MD

INVITATION, BID, AND ACCEPTANCE

(SHORT FORM CONTRACT)

LIGHTHOUSES
8 51 AM '37

Invitation No. 85191

Contract No. 882

COMMERCE, LIGHTHOUSE SERVICE — (Department or establishment)

11th District. — (Office or station)

3760 East Jefferson Ave., Detroit, Michigan. — (Address)

May 16, 1937 — (Date)

INVITATION

Sealed bids, in single subject to the conditions on the reverse hereof, will be received at this office until 11 o'clock a.m., MAY 28, 1937, and then publicly opened, for furnishing the following supplies, and/or services, for delivery at TAWAS LIGHT STATION, EAST TAWAS, MICHIGAN, ALL CHARGES PREPAID.

F. P. DILLON, (Name) Superintendent of Lighthouses. (Title)

ITEM NO.	ARTICLES OR SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT Dollars	AMOUNT Cents
	(TAWAS, Project 1580 - 1370702.001 GE.LHS.1937)					
1.	Installation of 6 inch well casing in accordance with the attached specifications and drawing #12569, ...	Price per ft. 26 ft. @		$6.00	$ 156	00
2.	Completion of well, construction of pump house, and complete installation of deep well pumping system, in accordance with attached specifications, and drawing #12569, ...	For the sum of			338	70
					494	70

COPY

(continued)

BID

Mah 24th, 1937 (Date)

In compliance with the above invitation for bids, and subject to all the conditions thereof, the undersigned offers, and agrees, if this bid be accepted within 30 days from the date of the opening, to furnish any or all of the items upon which prices are quoted, at the price set opposite each item, f. o. b., as specified and, unless otherwise specified within 30 days after receipt of order.

Discounts will be allowed for payment as follows: 10 calendar days, -- percent; 20 calendar days, -- percent; 30 calendar days, -- percent.

Bidder CLARENCE CHADWICK Address DEFORD, MICHIGAN

By /s/ Clarence Chadwick (Signature of person authorized to sign this bid) Title Owner

ACCEPTANCE BY THE GOVERNMENT

Detroit, Michigan, June 2, 1937 (Date)

Accepted as to items numbered 1 & 2 - $494.70.

Name F. P. DILLON Title Superintendent of Lighthouses

10—1806

(OVER)

EJS:MD

882

Invitation #5191
May 18, 1937

SPECIFICATIONS
TAWAS LIGHT STATION WELL CONSTRUCTION

1. General: Bids are desired for the construction of a well, construction of a pump house, and installation of pumping equipment, etc., at Tawas Light Station, Michigan, located at Tawas Point on Lake Huron, approximately 4½ miles by road from East Tawas, Michigan.

2. Work Required:Under Item 1: Under item 1, a price per lineal foot is requested for furnishing and sinking a standard galvanized 6" diameter well casing for the well shown on drawing #12369 attached, at the location on the lighthouse reservation indicated on the drawing. All materials encountered in the installation of the casing shall be removed from within the casing and the casing sunk to a depth of at least 25 feet below the present ground line and as much more as might be needed to reach a water supply capable of furnishing water at a pumping rate of at least 6 gallon per minute. The contractor shall pump the well until it is definitely determined that this rate can be maintained. Bidders are informed that water is obtained at the present time from a depth of approximately 25 feet by means of a hand pump at a location approximately 60 feet distant from the point at which the new well is desired.

3. Work Required Under Item 2: Under item 2, a lump sum price is requested for completing the well, building pump house, installing pumping equipment, pressure tank, underground pipe from well to pressure tank, Parkway cable, etc., in accordance with the following specifications and drawing #12369 attached. All materials including pump rod with fittings, drop pipe, underground discharge pipe, all materials for pump house, Parkway cable, etc. are to be furnished by the contractor with the exception of the following which will be furnished by the Government:

(a) 6" outer well casing installed under item 1.
(b) 1 - 2¼" x 9" bronze deep well cylinder.
(c) 1 solid tube tubular well screen 2 ft. long with fitting necessary for attachment to the well cylinder described above.
(d) 1 Pitless pumper complete with differential plunger, brass lining for plunger, and a 5" dia. surface pipe 6 ft. long, threaded to fit the outside casting of the pitless pumper.
(e) 1 Electric driven, 275 gal. per hour, 6" stroke, deep well pump complete with 220 gal. pneumatic tank and accessories necessary for automatic operation.

4. Completion of Well: Using the 6" outer well casing installed under item 1, the contractor is to lower a 2½" galv. drop pipe, with well screen and cylinder attached, to the bottom of the outside casing. The well is then to be gravel packed for a distance of 15 ft. from the bottom. The gravel shall be clean washed gravel, all of which shall pass through a 3/8" screen and all retained on a 1/8" screen. It shall be screened at the site, then submerged in a bath of hypochlorite solution (consisting of one rounded teaspoonful of chlorinated lime to 3 gal. of water) for 30 minutes, and then conveyed by clean shovel or bucket directly to the well. The 6" outer casing shall then be withdrawn 2'6" as shown on the drawing. The remainder of the well shall

882

then be completed which will include cutting off the 6" outer casing at the correct elevation, installation of the pitless pumper and differential plunger lining and installation of the 5" diameter surface pipe. Details of the well are shown on drawing #12369 attached.

5. Pump House: A frame pump house shall be erected as shown on drawing #12369. Concrete floor, pump foundation and foundation footing shall be of 1:2:4 concrete reinforced as shown on the drawing. The foundation wall shall be constructed of 8"x16"x12" cinder concrete block. The pump foundation shall be poured monolithic with the pump house floor.

All framing lumber shall be No. 1 Yellow Pine, Spruce, or Fir, or equivalent, subject to approval by the inspector. Sheathing shall be #1 common dense long leaf Yellow Pine fastened with at least two tenpenny nails to each stud. All exterior 1"x8" drop siding shall be clear "C" or better Northern White Pine, "A" or better Western Cedar, or first grade Cypress, and shall be placed over an approved building paper. In nailing siding to the exterior, care should be taken to see that nails penetrate studs. Interior walls and ceiling shall be of 1" insulating board similar and equal to "Celotex" and shall be nailed direct to the studs or rafters.

The roof shall be framed as shown on drawing. Sheathing shall be layed tight and fastened with at least two eightpenny nails to each cross member. Sheathing shall be covered with 15 lb. slaters felt, with 4 inch lap joints, fastened to the sheathing with roofing tacks. Asbestos shingles similar and equal to Johns-Manville 1/4" tapered shingle, and proper asbestos ridge roll shall be installed over the felt. A 2 foot square removable wood scuttle, fully insulated shall be installed on the roof as shown on the drawing. Scuttle shall fit snugly and be attached to the roof with removable fasteners on the inside. Top of scuttle shall be covered with 26 gauge galvanized iron instead of shingles. All joints and seams are to be crimped and soldered, and all exposed nail heads soldered. The two windows and door shall be of mill stock white pine of the sizes shown on the drawing. Windows shall be glazed with double strength clear glass.

Painting of the pump house will not be included in this contract but will be done by the keepers at this station.

6. Installation of Pump, Pressure Tank, etc.: The contractor, after installation of the 1-1/8" octagonal wood pump rod, with well cylinder plunger, and differential plunger attached, shall mount the pump head on the concrete foundation. The pump rod and drop pipe shall be attached to the pump and the outer casing and drop pipe are to be sealed as shown in detail "A", drawing #12369. The steel plates, gaskets, bolts, etc., necessary to accomplish this seal are to be furnished by the contractor. An air line of a size suitable to fit the tapping on the pump head is to be run from the pump to the underground discharge pipe as shown on the drawing. A check valve is to be installed in this line near the connection to the underground discharge pipe.

(continued)

882

The contractor will furnish and install the 1-1/4" underground discharge pipe from the well to the double dwelling shown on the drawing, doing all trenching necessary and backfilling trench after the work is completed. The contractor shall also install the pressure tank in the basement of this dwelling, making the connection of the underground discharge pipe to the pressure tank, furnishing all valves, fittings, etc., necessary to make this connection as shown on the drawing. He shall also provide a nipple and valve for the distribution line but shall not install any other part of the distribution line.

The contractor shall also furnish and install Parkway cable, 2 wire #10, from the current source in the keeper's dwelling, which is 110 volt A.C. 60cycle, single phase, to the pump house, and from the pump house to the pressure tank, making all necessary electrical connections for operation of the pumping system in accordance with the manufacturer's instructions. Cable shall be buried 1 foot underground.

7. Final Test and Adjustment of System: Upon completion of the work described, the well shall be pumped continuously for 3 hours and the water discharged at a point at least 60 feet from the well by means of a hose hooked to the distribution fitting on the tank. All adjustments necessary to accomplish operation of the system between 25 and 40 lbs. per sq. in. at 45 to 55 R.P.M. for the pump shall be made at this time.

8. Visit to Site: All bidders are requested to visit the site to familiarize themselves with conditions existing.

9. Inspections: All work shall be subject to inspection by a representative of the Lighthouse Service. Differences arrising between the inspector and contractor shall be referred to the Superintendent of Lighthouses, Detroit, Michigan, and his decision shall be final.

10. Payment: Payment for both items 1 and 2 will be made in full upon completion of the item and upon receipt of a bill properly certified for that item.

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Form 114 HDW:MSS

ABSTRACT OF BIDS

882 Proposal No. 5363

DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

OFFICE OF SUPERINTENDENT OF LIGHTHOUSES, 11th DISTRICT

Detroit, Michigan, August 13, 1937

ABSTRACT OF BIDS opened at 11 A. M., on August 13, 1937

for drill of well at TAWAS LIGHT STATION - PROJECT 1580 - 1380702.001 G.E.LH S 1938

NAME OF BIDDER	AMOUNT OF BID	TIME OF COMPLETION OR DELIVERY	REMARKS Indicate recommendation for award by check line (------)
Clarence Chadwick, Deford, Mich.	6.00 per foot from 82 foot level		
Edward Christman, West Branch, Mich.	6.00 per foot from ground level, not in accordance with specs.		
John Finger, Prescott, Mich.	no bid		
John Kernstock, R.F.D. Box 184, Bay City, Mich.	no bid		

COPY

COPY

PUBLIC NOTICES WERE POSTED AND PAID ADVERTISEMENTS WERE INSERTED IN PUBLICATIONS, AS SHOWN HEREON OR ON SHEET ATTACHED.

11th District Office, Detroit.

ORDER PLACED
AUG 17 1937
MSS

AWARD OR RECOMMENDATION: Clarence Chadwick - Low bid meeting specs. $6.00 per foot from 82' level

BIDS OPENED IN THE PRESENCE OF:

M. S. Spencer

11—4063

(Revised)

HDW:MSS

Invitation No. 5363

Contract No. 882

INVITATION, BID, AND ACCEPTANCE

(SHORT FORM CONTRACT)

COMMERCE, LIGHTHOUSE SERVICE — (Department or establishment)

11th DISTRICT — (Office or station)

5760 EAST JEFFERSON AVE., DETROIT, MICHIGAN. — (Address)

AUGUST 10, 1937. — (Date)

INVITATION

Sealed bids, in SINGULAR subject to the conditions on the reverse hereof, will be received at this office until 11 o'clock a. m., AUGUST 13, 1937., and then publicly opened, for furnishing the following supplies, and/or services, for delivery at TAWAS LIGHT STATION, EAST TAWAS, MICH., ALL CHARGES PREPAID.

F. P. DILLON, Superintendent of Lighthouses.
(Name) (Title)

ITEM NO.	ARTICLES OR SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT Dollars	AMOUNT Cents
	TAWAS LIGHT STATION - PROJECT 1580 - 1380702.001 G.E.LHS 1938					
1.	For the installation of a 6" well casing in accordance with specifications below. . . .	Price per foot.		$6.00		

SPECIFICATIONS

A price per lineal foot is requested for furnishing and sinking a standard galvanized 6" diameter well casing at the location on the lighthouse reservation at Tawas Light Station, East Tawas, Mich. All materials encountered in the installation of the casing shall be removed from within the casing and the casing sunk from the present depth of 32 feet from below the present ground line to as much more as might be needed to reach a water supply capable of furnishing water at a pumping rate of at least 6 gallons per minute. The contractor shall pump the well until it is definitely determined that this rate can be maintained. Bidders are informed that water is obtained nearby from a depth of approximately 100 feet.

COPY

BID

August 10, 1937 (Date)

In compliance with the above invitation for bids, and subject to all the conditions thereof, the undersigned offers, and agrees, if this bid be accepted within two days from the date of the opening, to furnish any or all of the items upon which prices are quoted, at the price set opposite each item, f. o. b., as specified and, unless otherwise specified within ---- days after receipt of order.

Discounts will be allowed for payment as follows: 10 calendar days, -- percent; 20 calendar days, -- percent; 30 calendar days, -- percent.

Bidder CLARENCE CHADWICK Address DEFORD, MICHIGAN

By /s/ Clarence Chadwick Title Owner & Operator
(Signature of person authorized to sign this bid)

ACCEPTANCE BY THE GOVERNMENT

Detroit, Mich., August 17, 1937 (Date)

Accepted as to items numbered one @ $6.00 per foot - not to exceed 165 feet.

F. P. DILLON, Superintendent of Lighthouses.

Name By: H. M. CROSS Title Chief Clerk

10—1806

(OVER)

Enclosure Received

ESCAPED

Form 80
DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

RECOMMENDATION AS TO AIDS TO NAVIGATION PROJECT No. 1741

OFFICE OF SUPERINTENDENT OF LIGHTHOUSES 11th DISTRICT.

Detroit, Michigan, May 12 1938.

LIGHTHOUSES
MAY 14 8 40 AM '38

THE COMMISSIONER OF LIGHTHOUSES:

1. Name of aid: **TAWAS Light Station**
2. Locality: **East Tawas, Michigan.**

Cap 882

3. Proposed action and necessity therefor: **Complete development of well and install plumbing and sewerage system to provide suitable drinking water, and sanitary facilities at this station from health standpoint.**
4. Total estimated cost: **$2500.00.**
5. Appropriation: **Special Projects, 1939 (Bureau unnumbered circular dated 3/15/38)**
6. Payment: To be made from funds **to be** allotted.
7. Estimated annual maintenance cost: **Nominal**
8. Authority is also requested to purchase the material needed, and not now on hand, at an estimated cost of $ **----**, and to do the work by contract **without** bond, $ **2500.00**; hired labor and depot force, $ **----**; crew of vessels, $ **----** This method of performance is considered the most economical and advantageous to the service.
   (If it is proposed to do the work partly or wholly by hired labor rather than by contract, give reasons therefor under Item 9)
9. Description, location, and other information:

A well was drilled at this station last year and a 16" casing sunk to a depth of 228 feet. The well was capped and no further work done. It is proposed to complete the development of this well, construct a pump house, and install deep well pumping system.

It is also proposed to install modern plumbing facilities at this station, including bathrooms, kitchen sinks, laundry tubs, and hot and cold running water in each of the keeper's and assistant Keepers' quarters, and to provide a septic tank and drainage field for sewage disposal.

Preliminary plans and specifications for this work are now being prepared and will be submitted to the Bureau upon completion. In the meantime this Form 80 is submitted for approval and allotment of funds in accordance with Bureau circular of March 15, 1938. (416)

It is proposed to issue separate proposals for the completion of the well development and for the installation of plumbing and sewage system.

Recmnd approval 8/27/38

2 Wps
11-2T-7
orig copy Spec in Eng Div.

F. P. DILLON
Superintendent of Lighthouses.

RRT:b

DEPARTMENT OF COMMERCE
BUREAU OF LIGHTHOUSES
Washington, August 29, 1938.

Copy returned to the Superintendent of Lighthouses, approved as recommended, except as noted. You will proceed with the work and report its status, until completed, as required by regulations or instructions.

For the Commissioner:

C. A. PARK
Deputy Commissioner.

11—4055

b

ESTIMATE OF COST OF PROPOSED WORKS

DEPARTMENT OF COMMERCE

LIGHTHOUSE SERVICE

NAME OF AID: TAWAS Light Station, Michigan.

OFFICE OF SUPERINTENDENT OF LIGHTHOUSES 11th DIST.

Detroit, Michigan, May 12, 1938

PROPOSED WORK: Complete well development and install plumbing and sewage disposal system.

882

11—8384

ITEMS, QUANTITIES, AND UNIT PRICES	AMOUNT
1. Completion of well, construction of pump house, and complete installation of deep well pumping system. . . . . (Equipment including well screen, pump, well cylinder and pitless pumper, now on hand.)	$ 600.00
2. Install complete plumbing facilities, including bathrooms, kitchen sinks, laundry tubs, hot water tanks, etc. in keeper's single dwelling.	400.00
3. Install complete plumbing facilities, same as above, in each of the two assistant keepers' quarters.	800.00
4. Sewage system, including septic tank and tile drain field complete. .	500.00
5. Miscellaneous and contingencies.	200.00
	$2500.00

Estimate prepared by E.S.G.

GAP:HJP

Form 80
DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

2 Inclosure Received

882A

RECOMMENDATION AS TO AIDS TO NAVIGATION

OFFICE OF SUPERINTENDENT OF LIGHTHOUSES. 11th DISTRICT.

Detroit, Mich., June 7, 1927.

THE COMMISSIONER OF LIGHTHOUSES:

The following recommendation is submitted for the consideration of the Bureau:

1. Name of aid: Tawas Light Station.
2. Locality: Lake Huron, West Side, Michigan.
3. Proposed action: Remove steam fog signal plant and install compressed air Type "F" diaphones.
4. Necessity: Deteriorated condition of present steam boilers.

6/11/27 wrote 11th

Recvd OK wfaa

Have been allotted

LIGHTHOUSES 1927 JUN 9 PM 3 41

5. Total estimated cost: $9500.00.
6. Appropriation: Special: Aids to Navigation, Lighthouse Service.
7. Payment: To be made from funds allotted. When available after July 1,1927.
8. Maintenance estimated, annual cost: Practically no change.
9. Authority is also requested to purchase the material needed, and not now on hand, at an estimated cost of $ 7300.00, in accordance with law and regulations, and to do the work by contract ....., bond, $ .....; hired labor and depot force $ 2200.00, crew of vessels $ ..... This method of performance being considered the cheapest and most advantageous to the service.
10. The reasons for requesting authority to do this work partly or wholly by hired labor rather than contract are: Owing to the special nature of the work it will be most practicable and economical to carry out same by the regular field force of the district.
11. Additional description and information:

Boilers at this station are 28 years old and are now in such condition as to require considerable repairs. Changes in the shore line, low water, etc., have made it very difficult to deliver the considerable quantities of coal required for the operation of the steam fog signal. To avoid danger of breakdown and expensive repairs and also to facilitate maintenance and increase the efficiency of the signal, these boilers should be retired from service at the earliest practicable date. If the materials are purchased at this time the actual work can be accomplished duri the construction season of 1928. It is proposed tocarry out this installation from the APpropriation: Aids to Navigation, Lighthouse Service, allotment for which was made by the Bureau under date of March 18,1927, funds to be available on July 1,1927

It is proposed to install Type "F" diaphones at this important station. It is recommended that a characteristic consisting of a group of 2 blasts every 60 seconds

continued.

Airways
Surveys
Lighting
Radio
Weather
Clerical
Chief Engr.

Recvd ltr & hoed fm 80

DEPARTMENT OF COMMERCE
BUREAU OF LIGHTHOUSES
Washington,

June 27, 1927.

Returned to the Superintendent of Lighthouses, approved as recommended, except as noted. You will proceed with the work and report its status, until completed, in your Monthly Report of Operations.

Approved for longer blast, but to be grouped as follows:Blast ..4 seconds, Silent ---
4 seconds, Blast ---4 seconds, Silent --48 seconds. Payment to be from funds allotted
when available. Note is made of your indorsement of June 15 on this subject.

G. R. PUTNAM

Commissioner.

11—4055

1882A

June 6,1927.

LIGHTHOUSES
1927 JUN 9 PM 3 41

GAP:HJP

Form 80-Tawas Light Station.

be adopted as follows:

1st Blast ..... 4 sec.
Silent .....16 sec.
2d Blast ..... 4 sec.
Silent .....36 sec.

This is very similar to the characteristic which the station now has. Data for Notice to Mariners will be submitted at the proper time.

Detailed estimate and specifications are attached hereto.

Park
Superintendent of Lighthouses.

Closer grouping preferable.
Suggest B - 3 sec
S - 2 sec
B - 3 sec.
S - 52 sec.
Double blast is similar to that of Thunder Bay which sta is 57 mi distant and the location is such that danger of confusion is not probable
WT 6/10

Round Id — Mackinac Pt
Thun Id —
Tawas —
Thunder Bay —

per min

1 minute / 3-(27) = 3-(27) / 1 / 2-(2)-2-(2)-2-(50) / 1 / 4-(4)-4-(48)

1/2 / 2-(2)-2-(24)

2 surge blast per m
triple blast per min
double blast per min
2 double blast per min

ESTIMATE OF COST OF PROPOSED WORKS

DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

LIGHTHOUSES
1927 JUN 9 PM 3 41

882A

NAME OF AID: Tawas Light Station. OFFICE OF SUPERINTENDENT OF LIGHTHOUSES 11th DIST.

PROPOSED WORK: Remove steam fog signal plant and install compressed air Type "F" Diaphones.

Detroit, Mich., June 7, 1927.

ITEMS, QUANTITIES, AND UNIT PRICES	AMOUNT
1. 2-Type "F" diaphones complete with horizontal resonators, timing machines and spare pistons,	$2500.00
2. Air and fuel tanks,	450.00
3. Air compressors and engines complete,	3300.00
4. Room Heater,	110.00
5. Pipe and Fittings,	400.00
6. Miscellaneous machinery, shafting, belting, etc.,	350.00
7. Miscellaneous material for building alterations,	100.00
8. Miscellaneous steel and iron work,	175.00
9. Foundations for engines, including labor,	300.00
10. Dismantling old plant and labor of making alterations to building,	400.00
11. Labor, subsistence and travel in connection with mechanical installation,	800.00
12. Minor repairs to landing dock, walks, etc., at station,	200.00
13. Incidentals and Contingencies,	415.00
Total	$9500.00

Estimate prepared by C.A.PARK.

SPECIFICATIONS
for
AIR pressed
OF DIAPHONE FOG SIGNAL PLANT AT TAWAS LIGHT HOUSE, MICHIGAN,

LIGHTHOUSES
1927 JUN 9 PM 3 4

882A

Inclosure

GENERAL:

The present steam boilers are to be removed also the coal bunkers, and a compressed air fog signal plant with Type "F" diaphones to be installed in duplicate in their place, air to be furnished by compressors, direct or belt connected, to kerosene, gasoline or fuel oil engines, the capacity of the compressors to be such as to permit of sounding the Type "F" diaphone at characteristic proposed, at the same time providing adequate reserve capacity.

2. FOG SIGNAL:

Duplicate Type "F" diaphones to be installed with horizontal resonators assembled above diaphone platform in the outer end of the building, the resonators directed to the usual course of approach. Alterations to the end of the building to be carried out as necessary in this connection. The timing devices are to be operated either mechanically by means of belt drive from the compressors themselves through jack shaft arrangement or by air motor drive regulated by air pressure.

3. ENGINE SPEED:

The speed of engines driving the air compressors shall be moderate to avoid excessive wear and shall be closely governed by suitable arrangement.

4. TANKS:

Two air receivers of adequate size are to be installed , also one fuel tank capable of holding approximately 1500 gallons. The presentwater tanks shall be retained to form the supply of circulating water for watercooling engines and compressors. Water circulation is to be provided to these machines both by gravity from the tank and by direct feed from a power driven pump.

5. STARTING ARRANGEMENTS:

The engines shall be of the quick starting type, suitable for operation within 5 minutes after an attempt is made. If required, auxiliary air compressing machinery to furnish air for starting purposes shall be provided. In case hot ball ignition is used, adequqte torches fixed permanently to the engines and piped to a suitable air supply shall be provided.

6. HEATER:

A room heater installed in the open in the fog signal building shall be used to provide necessary heat.

7. DISMANTLING:PLANT:

The present plant shall be dismantled in such a way as to leave one whistle in commission until one of the diaphones is ready to place in commission. It will be the intention for the present steam boiler and other equipment to be surveyed and sold.

8. ALTERATIONS TO BUILDING:

The building shall be placed in first class condition by carrying out the necessary repairs to floors, sills, doors, windows, etc., in order to leave it in first class permanent condition.

9. LAYOUT:

continued.

LAYOUT:

The installation layout shall be such as to permit flexibility of operation and to avoid the crippling of the plant by an accident to any one part of it . The installation shall, in general, be similar to plants already installed in this district, necessary modifications to be made to suit the type of air compressing machinery provided.

INCLOSURE RECEIVED

Form
DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE
APPROVED DEC. 1937

FAT:MD

RECOMMENDATION AS TO AIDS TO NAVIGATION 11th DISTRICT.

OFFICE OF SUPERINTENDENT OF LIGHTHOUSES

Detroit, Michigan, October 24, 19 38

LIGHTHOUSES
Oct 26 9 08 AM '38

882

THE COMMISSIONER OF LIGHTHOUSES:

1. Name of aid: TAWAS Light Station
2. Locality: East Tawas, Michigan
3. Proposed action and necessity therefor: Construct sewer system for sewage disposal from present keeper's dwelling, and double assistant keepers' dwelling, of ample capacity to provide for additional dwelling.
4. Total estimated cost: $1350.00.
5. Appropriation: 6-0 8/0 679.13 PWA Act, 1938 (Allotment to Commerce, Lighthouses) 1938-1940.
6. Payment: To be made from funds ---------- allotted.
7. Project number in district allocation: Bureau Priority No. 56.
8. Estimated annual maintenance cost: Nominal.
9. Authority is also requested to purchase the material needed, and not now on hand, at an estimated cost of $ 1350.00, and to do the work by contract without bond, $ ----- ; hired labor and depot force, $ ------ ; crew of vessels, $ -------- This method of performance is considered the most economical and advantageous to the service.
   (If it is proposed to do the work partly or wholly by hired labor rather than by contract, give reasons therefor under item 10)
10. Description, location, and other information:

Reference is made to Bureau telegram dated October 20, 1938, approving expenditure of $1350.00 from PWA funds for construction of this sewer system, and requesting supplemental Form 80 to cover.

There are enclosed revised Forms 83 of Form 80 dated May 12, 1938, covering Tawas Light Station, approved by Bureau August 29, 1938 (Bureau file 882), and Form 80 of July 8, 1938 covering Gravelly Point Shoal Light Station, from PWA funds, approved by Bureau July 13, 1938. The first Form 83 shows the deletion of item 4 and the second Form 83 shows a breakdown of item 5, to show inclusion of sewer construction under PWA Project No. 56. This will decrease the amount of Form 80 dated May 12, 1938 from $2500.00 to $2000.00.

Recmnd approval but future Forms 80 are to have more complete breakdown of estimated cost on Form 83 10/26

F. P. DILLON, Superintendent of Lighthouses.

DEPARTMENT OF COMMERCE
BUREAU OF LIGHTHOUSES

LK *Washington,* October 28, 1938.

Copy returned to the Superintendent of Lighthouses, approved as recommended, except as noted. You will proceed with the work and report its status, until completed, as required by regulations or instructions.

It is requested that future Form 83's accompanying Form 80's have more complete breakdown of estimated cost.

For the Commissioner:

C. A. PARK,
Deputy Commissioner.

11—4055

882-E

31

702 St. Clair Ave.,
Sheboygan, Wis., February 21, 1911.

BUREAU OF LIGHT-HOUSES
FEB 23 1911
DEPT OF COMMERCE AND LABOR

Bureau of Light Houses,
Department of Commerce & Labor,
Washington, D. C.

Gentlemen:--

Referring to page 96 of the "List of Lights and Fog Signals of the United States, etc"., corrected to July 15, 1910, I would call your attention to the description of Tawas Light Station, which reads in part as follows:

> "4th-order light, fixed light 25 sec., eclipse 5 sec; white light from 135 degrees true to 45 degrees true, red light in sector covering sand flat, from 45 degrees true to 135 degrees true".

As I understand it compass bearings in azimuths run in the direction of the hands of a clock from 0 degrees through East 90 degrees; South 180 degrees; West 270 degrees and completing circle at North 360 degrees or 0 degrees, in which case the azimuths given for Tawas Light would be reversed. That is, the white light should show from 45 degrees true to 135 degrees true, the red light in sector covering sand flat from 135 degrees true to 45 degrees true.

Yours truly,

O. J. Ever

Feb. 23, 1911, wrote Mr. Ever.

WGW:RW
Form 80
DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

1 Inclosure
Received

882 E

RECOMMENDATION AS TO AIDS TO NAVIGATION

OFFICE OF SUPERINTENDENT OF LIGHTHOUSES 11th DISTRICT.

Detroit, Michigan, September 10, 1930.

THE COMMISSIONER OF LIGHTHOUSES:

LIGHTHOUSES
1930 SEP 12 AM 9 33

The following recommendation is submitted for the consideration of the Bureau:

1. Name of aid: Tawas Light Station.
2. Locality: Lake Huron, West Shore, Michigan.
3. Proposed action: Construct shore protection cribs and rebuild landing dock.
4. Necessity: Considerable erosion has taken place in the vicinity of the fog signal building due to storms and high water. The landing dock is decayed and requires to be rebuilt.
5. Total estimated cost: Repairs due to Storm and Ice Damage, Lighthouse Service
6. Appropriation: ~~Repairs due to hurricane~~, $1800.00; G.E. 1931, $1000.00.
7. Payment: To be made from funds allotted. and available.
8. Maintenance estimated, annual cost:
9. Authority is also requested to purchase the material needed, and not now on hand, at an estimated cost of $ 950.00, in accordance with law and regulations, and to do the work by contract - - - - bond, $ ------; hired labor and depot force, $ 1850.00; crew of vessels, $ ------. This method of performance being considered the cheapest and most advantageous to the service.
10. The reasons for requesting authority to do this work partly or wholly by hired labor rather than contract are: As all materials will have to be delivered by water, local contractors would be unable to handle this work.

5/15/31 Wrote 11th file 1649

11. Additional description and information: It is considered that the shore protection work is properly chargeable to the special appropriation for storm damages but the dock repair is proposed to be paid from the General Expense Appropriation since the repair is necessitated principally on account of decay. Drawing No. 11432 shows the construction proposed.

airways
Hydro
Radio M
Engr. Constrn
Mar. Engr.
Personnel
Finance
Law & Prop.
Chief Clerk
Adm. Assist.
Dep. Commr.
Commissioner

Record OK, if no objection to method of payt; call attention to red pencil notation on blueprint. Sept 14/30

Re OK call attention change in appropriation title as per Bur telegram 9/15/30 ab

OK 9/16

ENG. CONST. FILES
Dist. 11 Folio 2T No. 6
1 Bp.
Tests Spec. Box.
Photos Titles
Date filed 9-23-30 WmcN.

Superintendent of Lighthouses.

GB

DEPARTMENT OF COMMERCE
BUREAU OF LIGHTHOUSES
Washington,

September 18, 1930

Returned to the Superintendent of Lighthouses, approved as recommended, except as noted in red. You will proceed with the work and report its status, until completed, in your Monthly Report of Operations.

H. D. KING
Acting *Commissioner.*

11—4055

882E

Inclosure

LIGHTHOUSES

1930 SEP 12 AM 9 33

WGW:RW

September 10, 1930.

SPECIFICATIONS

for

REPAIRS AT TAWAS LIGHT STATION, MICHIGAN.

1. Shore Protection: The Lake Huron side of the point is to be protected by a bulkhead of rock-filled cribs. These cribs are to be strongly drifted together and to be further tied by vertical strips spiked to every log to prevent separation. The separate cribs will be placed end to end in shallow excavations and filled with rock. No decks will be placed over these cribs as the rock fill is large enough to prevent washing out. A few cribs are already in place and the new cribs will be lined with the present ones.

2. Landing Dock and Walk: The present timber crib dock will be removed to sound timber, below the present water level, and a concrete wall and slab structure constructed. Steel flash plating will be placed to protect the concrete from the ice, where exposed. A timber walkway will be constructed from the dock to shore.

- - - - - - - - - -

FRB:RW

ESTIMATE OF COST OF PROPOSED WORKS

DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

LIGHTHOUSES 1930 SEP 12 AM 9 33 Enclosure

NAME OF AID: Tawas Light Station

OFFICE OF SUPERINTENDENT OF LIGHTHOUSES 11th DIST.

PROPOSED WORK: Build shore protection and renew boat dock and walk.

Detroit, Michigan, September 10, 1930.

11—8334

ITEMS, QUANTITIES, AND UNIT PRICES	AMOUNT
(Shore Protection - Approp.: Repairs due to hurricane)	
Note: About 300 - 12' and 700 - 8' logs are available without charge.	
1. 100 logs 30' long, @ $120.	$ 360.00
2. 300 yards filling stone, (No charge, delivery by tender).	
3. Lumber, 2" x 4" - 12'0", 2,000 F.B.M. @ $40 M	80.00
4. Carbolineum, 50 gal. @ $0.50	25.00
5. Drift bolts, spikes, etc.	100.00
6. Labor, building 37 cribs, applying carbolineum, floating into position, and filling with stone, @ $28.80 each	1,065.60
7. Contingencies and travel	169.40
Total for shore protection	$1,800.00
(Boat Dock and Walk: GE-1931)	
8. Steel flash plating, 2400#, fabricated, @ $0.08	$ 192.00
9. Bolts, spikes, mails, etc.	30.00
10. Reinforcing steel, 1200#, @ $0.03½	40.00
11. Round stock, angles, etc., 300# @ $0.03½	10.50
12. Form lumber, 1000 F.B.M. @ $40 M	40.00
13. Concrete, in forms, 21 yards @ $20 yd.	420.00
14. Filling stone, 25 yds. (No charge).	
15. Labor, removing top of present dock, placing flash plating, stone, etc.	100.00
16. Labor, rebuilding walk to shore	35.10
17. Contingencies and travel	132.40
Total for boat dock and walk to shore	$1,000.00
TOTAL	$2,800.00

Estimate prepared by F. R. Bellomy

OF COST OF PROPO[illegible] WORKS

DEPARTMENT OF COMMERCE

LIGHTHOUSE SERVICE

1930 SEP 12 AM 9·33

OFFICE OF SUPERINTENDENT OF LIGHTHOUSES 11th DIST.

NAME OF AID: Tawas Light Station

PROPOSED WORK: Build shore protection and renew boat dock and walk.

Detroit, Michigan, September 10, 1930.

11—8384

ITEMS, QUANTITIES, AND UNIT PRICES	AMOUNT
(Shore Protection - Approp.: Repairs due to hurricane)	
Note: About 300 - 12' and 700 - 8' logs are available without charge.	
1. 100 logs 30' long, @ $120.	$ 360.00
2. 300 yards filling stone, (No charge, delivery by tender).	
3. Lumber, 2" x 4" - 12'0", 2,000 F.B.M. @ $40 M	80.00
4. Carbolineum, 50 gal. @ $0.50	25.00
5. Drift bolts, spikes, etc.	100.00
6. Labor, building 37 cribs, applying carbolineum, floating into position, and filling with stone, @ $28.80 each	1,065.60
7, Contingencies and travel	169.40
Total for shore protection	$1,800.00
(Boat Dock and Walk: GE-1931)	
8. Steel flash plating, 2400#, fabricated, @ $0.08	$ 192.00
9. Bolts, spikes, maile, etc.	30.00
10. Reinforcing steel, 1200#, @ $0.03½	40.00
11. Round stock, angles, etc., 300# @ $0.03½	10.50
12. Form lumber, 1000 F.B.M. @ $40 M	40.00
13. Concrete, in forms, 21 yards @ $20 yd.	420.00
14. Filling stone, 25 yds. (No charge).	
15. Labor, removing top of present dock, placing flash plating, stone, etc.	100.00
16. Labor, rebuilding walk to shore	35.10
17. Contingencies and travel	132.40
Total for boat dock and walk to shore	$1,000.00
TOTAL	$2,800.00

Estimate prepared by F. R. Bellomy

Form 114

HMC:AB

ABSTRACT OF BIDS

Proposal No. -

DEPARTMENT OF COMMERCE

LIGHTHOUSE SERVICE

OFFICE OF LIGHTHOUSE INSPECTOR, 11th DISTRICT

Detroit, Michigan, Dec.20, 1922.

ABSTRACT OF BIDS opened at 2 P. M., *on* November 27, 1922.

for use under revocable license, of fishing privileges at Tawas Lighthouse Reservation.

NAME OF BIDDER	AMOUNT OF BID	TIME OF COMPLETION OR DELIVERY	REMARKS Indicate recommendation for award by check line (------)
Trudell Fisheries Co., Inc.			
Tawas, Michigan.	$2,635 00		Recommended as below.

PUBLIC NOTICES WERE POSTED AND PAID ADVERTISEMENTS WERE INSERTED IN PUBLICATIONS, AS SHOWN HEREON ~~OR ON SHEET ATTACHED~~

Public Notices posted at Post Office at East Tawas and Bay City, Michigan.
Paid Advertisements inserted in the "Times", Bay City, Mich, and "News", Sault Ste.Marie, Michigan.

AWARD OR RECOMMENDATION: See Separate letter this date.

BIDS OPENED IN THE PRESENCE OF

Edw. R. Woodruff

H. W. Ross

11—4063

882-F

LIGHT
DEC 15 1914
HOUSES

Calendar No. 733.

63D CONGRESS,
3D SESSION.

S. 6780.

[Report No. 836.]

IN THE SENATE OF THE UNITED STATES.

DECEMBER 8, 1914.

Mr. FLETCHER introduced the following bill; which was read twice and referred to the Committee on Commerce.

DECEMBER 14, 1914.

Reported by Mr. FLETCHER, without amendment.

A BILL

To authorize the Secretary of Commerce to transfer a portion of the lighthouse reservation, Tawas, Michigan, to the Secretary of the Treasury.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the Secretary of Commerce is hereby authorized to transfer to the Secretary of the Treasury, for the use of the Life-Saving Service, lot numbered one, section thirty-four, township twenty-two north, range eight east, Iosco County, Michigan, which is a portion of the lighthouse reservation at Tawas, Michigan, and which is no longer needed in connection with the work of the Lighthouse Service.

L.H. 144

MMB
882-F

DEPARTMENT OF COMMERCE
BUREAU OF LIGHTHOUSES
WASHINGTON

882-F

LIGHT HOUSES DEC 22 1917

December 6, 1917.

Approved and referred to the Secretary of Commerce for further examination and transmittal to the Auditor for the State and Other Departments, amount found due to be credited to the appropriation

General Expenses, Forest Service, 1918, planting National Forests -$122.10

and charged to the appropriation for

General Expenses, Lighthouse Service, 1918, - - - - - - - - - - - - - 122.10

H7813

Acting Commissione .

Department of Agriculture letter of Nov. 17, 1917.

LIGHTHOUSES---Bureau's files
Exact copy as signed by E. F. Sweet
Mailed DEC. 7, 1917. by Fred Shepard

Inclosures.

DEPARTMENT OF COMMERCE
OFFICE OF THE SECRETARY

Approved for $ 122.10 and forwarded to the Auditor for the State and Other Departments for settlement.

Secretary.
H7813

B. of. L.

Form 134
(Revised Feb., 1917)

Read Instructions on Reverse Side *Before* Preparing Report

8825

LIGHT
DEC 8 1917
HOUSES

UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE

FIRST REPORT ON PLANTATIONS OR SEEDING AREAS

To be accompanied by Topographic Map of Area (1)

Michigan *National Forest*

Tawas Point Project. Sec. 34 T. 22N. R. 8 E., Mich. Mer.

Area No. (2) P-1 (A & B) If replanting, previous area number (3)

Area 13.00 (In acres.) Date established October 25-31, 1917. (If period, give dates of beginning and ending.)

Species Pinus resinosa Source (4) Minn. seed. Halsey nursery (Of seed and nursery where grown.)

Class or age (5) 2-2 Quality or condition Excellent (At time of planting.)

Method Bars & shovels used as bars (Of planting or sowing.) Amount per acre 1538 (Trees or pounds seed.)

Per cent of area staked 200 stake plots Number of plots or rows staked Two plots

Cost $5.62 (Per M trees or pounds seed.) Total cost of area $276.69

DETAILED COSTS PER ACRE.

(INCLUDE SUBSISTENCE, IF FURNISHED, WITH LABOR COSTS.)

(6) Reconnaissance.	(7) Ground preparation.	Trees or seed.	(8) Transportation.	(9) Planting or seeding.	(10) Surveying.	(11) Staking.	(12) Supervision.	(13) Equipment.	Protection.	(14) Other.	Total.
0	0	8.65	4.90	5.74	.22	.12	.58	.15	0	.92	21.28

Cost of subsistence per meal, $ .25 Per cent of total cost represented by Forest Officer's salaries 14.5

Remarks Rain. snow amd very cold weather hindered operations. Ground frozen in early morning. Planting bars used first, then shovels which worked well in loose sand as bars. Men averaged 950 trees per day. 20000 trees planted. Costs include time of Ranger Johnson, Guard Anscheutz, and supervisor. Men paid at rate $.25 per hour and board. Labor exclusive F.O. cost $31.25

(Unusual weather conditions; explanation of low or high costs, etc.)

Nov. 26, 1917 (Date of report.) Ralph H. Johnson (Name.)

Approved Nov. 26, 1917 Forest Ranger (Title.)

Huber C. Hilton, *Supervisor.*

8—1970

ADDRESS ALL COMMUNICATIONS TO
LIGHTHOUSE INSPECTOR
DETROIT, MICH.

ILG-AGD

DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

882E

LIGHT
NOV 4 1918
HOUSES

SUPERINTENDENT
OFFICE OF INSPECTOR, 11TH DISTRICT
POST OFFICE BUILDING
DETROIT, MICH.

LIGHT
NOV 21 1918
HOUSES

November 1, 1918.

TAWAS LIGHT STATION, MICHIGAN

Report of hydrostatic test and examination of fog signal plant.

October 24-25, 1918

	Boiler No. 1	Boiler No. 2
1. Hydrostatic pressure applied	120 lbs.	120 lbs.
2. Steam pressure allowed	80 "	80 "
3. Fusible plug replaced	Yes	Yes
4. Condition of furnace	Good	Good
5. " " tubes	"	"
6. " " shell	Good	Good
7. " " braces	Good	Good
8. " " crown sheet	"	"
9. " " staybolts	Fair	Fair

Inspection and test made by John W. Millar, Machinist.

Copy forwarded to Bureau of Lighthouses for its information and files.

Woodruff

Form 134
(Revised Feb., 1917)

Read Instructions on Reverse Side *Before* Preparing Report

882 E

LIGHT
FEB 12 1919
HOUSES

UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE

FIRST REPORT ON PLANTATIONS OR SEEDING AREAS

To be accompanied by Topographic Map of Area (1)

Michigan *National Forest*

Tawas Point Project. Sec. 34 T. 22 R. 8 E., Mich. Mer.

Area No. (2) P-2 If replanting, previous area number (3) P-1

Area 13.00 (In acres.) Date established October 26 - 29, 1918 (If period, give dates of beginning and ending.)

Species Norway Pine Source (4) Minnesota - Boal Nursery (Of seed and nursery where grown.)

Class or age (5) 2-0 Quality or condition Good (At time of planting.)

Method Shovels used as bars (Of planting or sowing.) Amount per acre 1025 (Trees or pounds seed.)

Per cent of area staked Also the Number of plots or rows staked

Cost $2.44 (Per M trees or pounds seed.) Total cost of area $32.15

HBB says should be $2.50 PC 2/18 has not also area or cost 1/4 PC

DETAILED COSTS PER ACRE.

(INCLUDE SUBSISTENCE, IF FURNISHED, WITH LABOR COSTS.)

(6) Reconnaissance.	(7) Ground preparation.	Trees or seed.	(8) Transportation.	(9) Planting or seeding.	(10) Surveying.	(11) Staking.	(12) Supervision.	(13) Equipment.	Protection.	(14) Other.	Total.
		2.73	.43	3.01				.15			6.32

Cost of subsistence per meal, $ Per cent of total cost represented by Forest Officer's salaries 8.6

Remarks Amount - forest officers salaries $7.12.
(Unusual weather conditions; explanation of low or high costs, etc.)
Trees used 13,325, including 350 - 1-2 norway pine transplants for experimental planting. Men paid $3.00 per day without board. Planted 1014 trees per day. Weather very favorable.

January 18, 1919 (Date of report.) George Lake (Name.)

Approved Jan. 29, 1919 Forest Ranger (Title.)

Huber C. Hilton, *Supervisor.*

8—1970

Form 134
(Revised Feb., 1917)

Read Instructions on Reverse Side *Before* Preparing Report

882E

LIGHT
FEB 12 1919
HOUSES

UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE

FIRST REPORT ON PLANTATIONS OR SEEDING AREAS

To be accompanied by Topographic Map of Area (1)

Michigan *National Forest*

Tawas Point Project. Sec. 34 T. 22 R. 8 E., Mich. Mer.

Area No.(2) P-6 If replanting, previous area number (3)

Area 5.8 (In acres.) Date established October 30 - November 2 (If period, give dates of beginning and ending.)

Species Norway Pine Source (4) Minnesota - Beal Nursery (Of seed and nursery where grown.)

Class or age (5) 2-0 Quality or condition Good (At time of planting.)

Method Shovels used as bars (Of planting or sowing.) Amount per acre 1604 (Trees or pounds seed.)

Per cent of area staked Number of plots or rows staked

Cost 2.44 (Per M trees or pounds seed.) Total cost of area 67.28

DETAILED COSTS PER ACRE.

(INCLUDE SUBSISTENCE, IF FURNISHED, WITH LABOR COSTS.)

(6) Reconnaissance.	(7) Ground preparation.	Trees or seed.	(8) Transportation.	(9) Planting or seeding.	(10) Surveying.	(11) Staking.	(12) Supervision.	(13) Equipment.	Protection.	(14) Other.	Total.
		3.91	.67	6.87				.15			11.60

Cost of subsistence per meal, $ Per cent of total cost represented by Forest Officer's salaries 9.7

Remarks Amount Forest officers salaries - $7.35. Trees used - 9,500.
(Unusual weather conditions; explanation of low or high costs, etc.)
350 - 1-2 Norway Pine transplants and 750 - 1-2 white cedar transplants for experimental planting. Men paid $3.00 per day without board. Planted 1014 per day. Weather very favorable.

January 18, 1919 (Date of report.) George Lake (Name.)

Approved Jan. 29, 1919 Forest Ranger (Title.)

Huber C. Hilton, *Supervisor.*

8—1970

Form 135
(Revised Feb., 1917)

(To be prepared in triplicate—for Ranger, Supervisor, and District Office)

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

Michigan *National Forest*

8825

Superintendent of Lighthouses Eleventh District RECEIVED JUL 24 1919 Detroit, Mich. DEPT OF COMMERCE
JUL 1919 HOUSES
AUG 8 1919 HOUSES

PROGRESS REPORT ON PLANTATIONS OR SEEDING AREAS[1]

Tawas Point *Project* *Areas reforested* Fall (Season), 1918

Area No.	Acres.	SPECIES. (Scientific name.)	Date Examined.	Per Cent Area Examined.	Average Height (or Condition).	[2] Average Number per Acre.	[3] Distribution.	Cause of Loss.
P-2	13	Pinus resinosa	June 21	Sample Plots	Fair	350	bunched	June drought
P-3	5.8	" "	June 21	"	Poor	300	"	" "

Remarks Area P-2 is the same area as P-1 which was replanted in the fall of 1918. The spring season was very favorable at Tawas Point and most of the trees started to send out a terminal shoot, but the extreme mid summer temperatures and lack of rain from May 20 until June 25 resulted in a large percentage of the trees being killed. The heaviest loss has occurred in the 2-0 seedlings and areas P-2 and P-3 while the remaining larger seedlings from the original plantation of area P-1 have been able to withstand the drought much better than the smaller seedlings. It is believed inadvisable to carry on any further reforestation work at Tawas Point until the results of previous plantings over a period of years have been determined.

(Include recommendations for further work on any areas needing it)

Date submitted June 28, 1919

(Name)

Approved: Huber C. Hilton., *Supervisor.*

(Title)

[1] Record on one sheet results on all areas planted or sown in one season on one project.
[2] Present average number of living trees per acre. In case of seed-spot sowing give number of spots with trees, not total number of trees.
[3] If not well distributed, explain under Remarks. Note whether any blanks of one-fourth acre or more occur.

8—1952

Copy for Information Bureau of Lighthouses

FEB 9 1920 9 25 AM

882E

LIGHT HOUSES FEB 9 1920

CAP-AKP.

Engrg.
Mar. Constr.
Mar. Engr.
Personnal
Accounts
Contracts
Supp. Constr.
Supp. Control
Records

February 6, 1920.

C-O-P-Y.

TAWAS LIGHT STATION, MICHIGAN

NOVEMBER 1919

Report of hydrostatic test and examination of fog signal plant.

		Boiler No. 1	Boiler No. 2
1.	Hydrostatic pressure applied	120 lbs.	120 lbs.
2.	Steam pressure allowed	80 "	80 "
3.	Fusible plugs replaced	No	No
4.	Condition of furnace	Fair	Good
5.	Condition of tubes	Good	"
6.	Condition of shell	"	"
7.	Condition of brades	"	"
8.	Condition of crown sheet	"	"
9.	Condition of staybolts	Fair	Fair

Test and examination made by John W. Millar, Machinist.

REMARKS : Water leg of boiler No 1 left hand corner of combustion chamber was found to be leaking in the seam. This was caulked, but will possibly require a patch in two or three years, as the sheet is beginning to get thin.

Copy forwarded to the Bureau for its information and files.

1. The thin portion of water leg will be observed at intervals and repaired as soon as such action is necessary.

OK IAD 726 9/20

For and in the absence of the Superintendent.

Park

1st. Asst. Superintendent.

Bureau of Lighthouses,
Washington, D.C., February 13, 1920.

Returned to Superintendent of Lighthouses, Detroit, Michigan, the Bureau curs in your views in paragraph 1 above.

Gale 2/13/20

KLG-AKF.

C-O-P-Y

August 12, 1921.

882-E

TAWAS LIGHT STATION, MICHIGAN.

August 1 9 2 1

LIGHTHOUSES
1921 AUG 15 AM 8 51

Report of Examination and Test of Steam Fog Signal Plant.

		Boiler No. 1	Boiler No. 2
1.	Hydrostatic pressure applied	120 lbs.	120 lbs.
2.	Steam pressure allowed	80 "	80 "
3.	Fusible plugs replaced	Yes	No (Good Condition)
4.	Condition of furnace	Fair	Good
5.	Condition of tubes	Fair	Fair
6.	Condition of shell	Good	Good
7.	Condition of braces	"	"
8.	Condition of crown sheet	Fair	Fair
9.	Condition of staybolts	"	"

Examination and test made by John W. Millar, Machinist.

REMARKS:- Seams in combustion chamber No. 1 boiler slight leak - Caulked the same.

Copy forwarded to the Bureau for its information and files.

Hydrog.
Engr. Comm.
Mar. Engr.
Personnel
Accounts.
Contracts
Chf. Clk.
Dep. Commis.
Commis.

ILG-AKP.

LIGHTHOUSES
1922 JUN 14 AM 7 55
882E

COPY

Hydrog.
Engr. Comm
Mar. Engr
Personnel
Accounts
Contracts
Chf. Clk.
Dep. Comm
Commr

OK File HD June 16

June 12, 1922.

TAWAS LIGHT STATION, MICHIGAN.

JUNE 1922

Report of examination and test of steam fog signal plant.

		Boiler No.1	Boiler No.2
1.	Hydrostatic pressure applied	120 lbs.	120 lbs.
2.	Steam pressure allowed	80 "	80 "
3.	Fusible plugs replaced	.No-(Good condition)	No-(Good condition)
4.	Condition of furnace	Fair	Fair
5.	Condition of tubes	Fair	Fair
6.	Condition of shell	Good	Good
7.	Condition of braces	Good	Good
8.	Condition of crown sheet	Fair	Fair
9.	Condition of staybolts	Fair	Fair

REMARKS:

Seam near water leg left hand corner combustion chamber was caulked last August -No leaks under pressure at this test. Renewed blow off nipple on No. 1 Boiler.

Examination and test made by JOHN W. MILLAR, Machinist.

Forwarded to the Bureau for its information and files.

For and in the absence of the Superintendent.

Chief Clerk.

882 E

(COPY)

AKP

Detroit, Mich., Sept. 19, 1923.

LIGHTHOUSES

1923 SEP 21 AM 9 07

REPORT OF EXAMINATION AND TEST OF STEAM FOG SIGNAL PLANT

TAWAS LIGHT STATION

SEPTEMBER, 1923.

		Boiler No. 1	Boiler No. 2
1.	Hydrostatic pressure applied	120 lbs.	120 lbs.
2. Steam	pressure allowed .....;.....	75 "	75 "
3.	Fusible plugs replaced	Yes	Yes
4.	Condition of furnace	Good	Good
5.	Condition of tubes	Slightly pitted.	Slightly pitted
6.	Condition of shell	Fair	Fair
7.	Condition of braces	Good	Good
8.	Condition of crown sheet	Good	Good
9.	Condition of staybolts.....	Fair	Fair.

REMARKS: Renewed blow off nipple No. 1 Boiler.
Slight leak in seam of combustion chamber No. 1 boiler was caulked.

Examination and test made by John W. Millar, Machinist.

Copy forwarded to the Bureau for its information and files.

Chief Engr.
Assistant
Accounts
Contracts
Dist Clk.
Dep. Dists.
Insp.

OK file HDD Sept 21

Form 114

COPY

ABSTRACT OF BIDS

Proposal No. XXXX

DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

AKP
HMC;A B

OFFICE OF SUPERINTENDENT OF LIGHTHOUSES, 11th DISTRICT

Detroit, Michigan, Dec. 20, 1922

ABSTRACT OF BIDS opened at 2 P *M., on* November 27, 1922, 19xx

for use under, revocable license, of fishing privileges at Tawas Lighthouse Reservation.

NAME OF BIDDER	AMOUNT OF BID	TIME OF COMPLETION OR DELIVERY	REMARKS Indicate recommendation for award by check line (------)
Trudell Fisheries Co., Inc. Tawas, Michigan	$ 2,635 per yr.		Recommended as below.
Beutel Fisheries Co., Bay City, Michigan.	- - - - - - - - - -		No bid received.
Mr. Edward Trudell, Trudell Fisheries Co., Tawas City, Mich.	- - - - - - - - - -		" " "
Tawas Fish Company, Bay City, Michigan.	- - - - - - - - - -		" " "
Copies to Postmasters for posting - Bay City, Mich., and East Tawas, Mich.			

PUBLIC NOTICES WERE POSTED AND PAID ADVERTISEMENTS WERE INSERTED IN PUBLICATIONS, AS SHOWN HEREON OR ON SHEET ATTACHED.

Post Office at East Tawas and Bay City, Michigan.
Paid Advertisements inserted in the "Times" Bay City, Mich., and "News" Sault Ste. Marie, Michigan.

AWARD OR RECOMMENDATION: See separate letter this date.

BIDS OPENED IN THE PRESENCE OF:

Edward L. Woodruff,

H.M. Cross.

11—4063

AKP (COPY) Detroit, Mich., September 23, 1924.

LIGHTHOUSES
1924 SEP 26 AM 9 00
882E

REPORT OF EXAMINATION AND TEST OF STEAM FOG SIGNAL PLANT

TAWAS LIGHT STATION, MICHIGAN.

SEPTEMBER 1924.

		BOILER NO. 1.	BOILER NO.2
1.	Hydrostatic pressure applied	120 lbs.	120 lbs.
2.	Steam pressure allowed	80 lbs.	80 lbs.
3.	Fusible plugs replaced	Yes	No(Good Condition)
4.	Condition of furnace	Fair	Fair
5.	Condition of tubes	"	Slightly pitted.
6.	Condition of shell	"	Fair
7.	Condition of braces	"	"
8.	Condition of crownsheet	"	"
9.	Condition of staybolts	"	"

Hydro
Radio
Engr. Cons.
Mar. Eng.
Personnel
Financial
Law and Prop.
Adm. Asst.
Dep. Comr.
Comr.

REMARKS: Steam gauge had variation of 5 lbs. from 0 to 100 -could not remedy it. Recommend a new one. Caulked leaky seam left rear combustion chamber.

Examination and test made by Leslie V.S. Millar, Machinist.

OK-fcla HH
Sep 26

Office of the Superintendent, Eleventh District.

ILG:AKP

Copy forwarded to the Commissioner of Lighthouses for information and files.

Another steam gauge is being provided.

Park

CAP:EMT

LIGHTHOUSES
1925 NOV 20 AM 8 52

REPORT OF

EXAMINATION AND TEST OF STEAM FOG SIGNAL PLANT

TAWAS LIGHT STATION

November, 1925.

	Boiler No. 1	Boiler No. 2
1. Hydrostatic pressure applied,.....	120 lbs.	120 lbs.
2. Steam pressure allowed,.....	80 lbs.	80 lbs.
3. Fusible plugs replaced,.....	no	no
4. Condition of Furnace,.....	fair	fair
5. Condition of tubes,.....	slightly pitted	Slightly pitted
6. Condition of shell.....	fair	fair
7. Condition of braces,.....	slightly sealed	Slightly sealed
8. Condition of crown sheet,.....	slightly pitted	Slightly pitted
9. Condition of stay bolts,.....	fair	fair

Examination and test made by Leslie V. S. Millar.

Officer of the Superintendent of Lighthouses,
Eleventh District, Detroit, Michigan,
November 18, 1925.

Copy forwarded to the Bureau, for its information and files.

Park