



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Specifications and Advertisement for Bids for Wood Utility Poles (Est. Cost: \$28,000)

MEETING DATE: March 2, 1994

SUBMITTED BY: Electric Utility Director

RECOMMENDED ACTION: That the City Council approve the specifications and authorize advertisement for bids for the purchase of 55 Wood Utility Poles of various classes and sizes.

BACKGROUND INFORMATION: This bid consists of one Class 1, eight Class 2, and 46 Class 3 wood poles. The poles in Classes 1 and 2 will be used in the 12kV circuit installation budgeted for this fiscal year, while the Class 3 poles will be purchased to support the Electric Utility Department's ongoing maintenance program of replacing damaged or deteriorating poles currently in the City's electric distribution system.

During the last six months, 41 poles have been replaced, and work orders to replace another 42 have been issued. This bid will provide poles to support those work orders, as well as the 12kV circuit installation. (To manage inventory and cash flow this bid will involve split shipments. The first shipment, which would include the 12kV requirements and 19 Class 3 poles, would be delivered 4-6 weeks after award. The second, consisting of 27 Class 3 poles to support the replacement program, would be delivered (and paid for) about two months later).

Poles in eight lengths are included in this bid:

<u>Length</u>	<u>Class 1</u>	<u>Class 2</u>	<u>Class 3</u>
35-foot	-	-	6 3
45-foot	-	-	8 15
50-foot	-	-	5 2
55-foot	-	4	- 4
60-foot	-	3	- 2
65-foot	-	-	- 1
70-foot	1	-	- -
80-foot	-	1	- -
Totals, Shipment #1 . . .	1	8	19
Total, Shipment #2			27

APPROVED Thomas A. Peterson

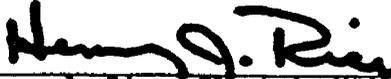
THOMAS A. PETERSON
City Manager



Wood Utility Poles
March 2, 1994
Page 2

FUNDING: The estimated cost of this purchase is \$28,000, with funding available in the Electric Utility Department's Operating Fund.

BID OPENING DATE: March 22, 1994


Henry J. Rice, Electric Utility Director

Prepared by Joel Harris, Purchasing Officer

cc: Assistant Electric Utility Director
Electrical Engineer

CITY OF LODI ELECTRIC UTILITY DEPARTMENT

SPECIFICATIONS

WOOD UTILITY POLES

1.0 SCOPE

These specifications cover the minimum acceptable quality of full-length wood poles for use in the City of Lodi's overhead distribution and subtransmission system.

2.0 SPECIFICATIONS

The following specifications shall be met:

- A. Poles and methods of manufacturing shall be in accordance with American National Standards Institute (ANSI), Rural Electrification Administration (REA) and American Wood Preservers' Association (AWPA) latest revision, except the spiral grain of any pole shall not exceed one complete rotation in any 30 feet.
- B. Poles shall be cut, marked and bored as specified in Section 6.0 of this specification.

3.0 TREATING REQUIREMENTS

The following requirements shall be met:

- A. Prior to treatment, poles shall be seasoned to a maximum of twenty-five percent (25%) moisture content of the sapwood based upon the oven-dried weight.

- B. Poles shall be Douglas Fir and pressure-treated with pentachlorophenol in accordance with the requirements of AWWA Standards C1, "All Timber Products--Preservative Treatment by Pressure Processes," and C4, "Poles--Preservative Treatment by Pressure Processes," or the latest revisions thereof.
- C. The pentachlorophenol shall meet the requirements of AWWA Standard P8, "Standards for Organic Preservative Systems," or the latest revision thereof. The carriers shall be a petroleum solvent in conformance with the latest edition of AWWA Standard P9, "Standard for Hydrocarbon Solvents for Oil-Borne Preservative."

4.0 ALTERNATE SPECIES AND TREATMENTS

The following species and treatments which otherwise meet or exceed the requirements of these specifications will be considered as alternate:

- o Species other than Douglas Fir.
- o Douglas Fir pressure treated with pentachlorophenol in a heavy petroleum solution.
- o Copper naphthenate treatment.

5.0 HANDLING AND SHIPPING

The following requirements shall be met:

- A. After treatment, the pole surface shall not be damaged by dragging or from the use of cant hooks, peavies, tongs, cables, slings and other tools normally used in pole-handling operations.

- B. Unloading shall be performed only by crane or boom supplied by the trucker/bidder. All shipments will be F.O.B. Lodi, California.

6.0 ADDITIONAL REQUIREMENTS

The following requirements shall be met:

A. Marking

Poles shall be permanently marked on the face and the butt of each pole in accordance with ANSI Standards.

Exception: The distance of the pole brands from the butt shall be:

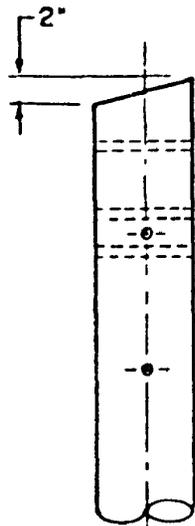
10' for 50' pole lengths and below

14' for 55' - 75' pole lengths

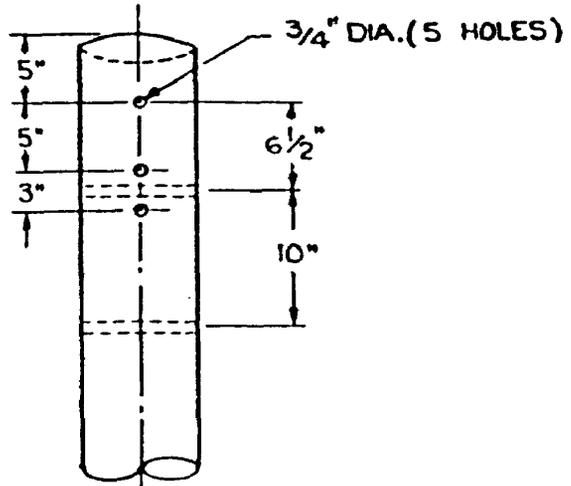
18' for 80' - 100 ' pole lengths

B. Cutting and Boring

- o Full-length treated poles shall be cut, bored (if required) and marked before treatment.
- o Poles shall be cut so that the butts are approximately square.
- o Poles shall be cut so that the tops have a slope in any direction of approximately two inches (2") over the diameter (refer to Detail A).
- o All 45' and 50' poles shall have holes bored as shown in Detail B.



DETAIL A



DETAIL B

POLE TOP
BORING REQUIREMENTS
FOR 45' & 50' POLES ONLY



CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

ENGINEERING STANDARD
SPECIFICATIONS
WOOD UTILITY POLES

7/13/83

[Signature]

[Signature]

[Signature]

[Signature]

SHEET 54 OF 54

DATE

DRAWN

CHECKED

STD. COMM. CHAIRMAN

APPROVAL

REVISION 0