

TABULATION OF BIDS

DEPARTMENT OF FINANCE
BUREAU OF PURCHASES AND STORES

ARTICLE WIRE FENCE - FURNISHING AND INSTALLING

Ordinance 69791 Appropriation _____
For Bureau Water Works

STANDARD
FENCE COMPANY

WESTERN FENCE
& WIRE WORKS

THE E.J.
BARTELLS CO

PORTLAND WIRE
& IRON WORKS

ITEMS	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL
1173 lin.ft.#9 wire fence	1.06343	1247 40	1.44	1689 12	1.45	1700 85	1.50	1759 50		
2 Prs. Wire Gates	51.48	102 96	64.58	129 16	59.20	118 40	80.00	160 00		
399 lin.ft.#11 wire fence	.45714	182 40	.44	175 56	.52	207 48	1.00	399 00		
Total	✓	1532 76		1993 84		2026 73		2318 50		

Work to start
finish

July 28th
Aug. 18th

2 days
within 18 days 40 days

10 days
August 1st
August 15th

INVITING PROPOSALS FOR FURNISHING AND INSTALLING FENCE.

Sealed proposals will be received at the office of the Purchasing Agent of the City of Portland, Room 208, City Hall, until 2 P. M. July 23, 1937, for furnishing and installing fence for the Bureau of Water Works in accordance with specifications on file in the Bureau of Purchases, Room 208 City Hall.

No proposal or bid will be considered, unless accompanied by a check payable to the order of the City of Portland, Oregon, certified by a responsible bank for an amount equal to ten (10) per cent of the aggregate amount of the proposal, to be forfeited as fixed and liquidated damages, should the bidder neglect or refuse to enter into contract and provide a suitable bond for the faithful performance of the contract, in the event the said contract is awarded to him.

Attention is called to Sec. 49-701 Oregon Code, Chapter 280 Oregon Laws 1931.

The right to reject any and all bids is hereby reserved.

Date of first publication, July 16, 1937.

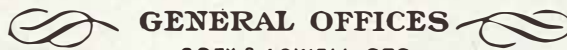
Date of last publication, July 17, 1937.

LEE A. BAUMHOVER,
Purchasing Agent for the City of Portland.
C-269-21

P.W.
7-10-37



STANDARD FENCE COMPANY



60TH & LOWELL STS.,
OAKLAND, CALIFORNIA
PHONE OLYMPIC 2060

BRANCHES

SAN FRANCISCO, 440 BAYSHORE BLVD.
LOS ANGELES, 3020 SAN FERNANDO RD.

PORTLAND, 400 N. E. 11TH AVENUE
SEATTLE, 1936 FIRST AVENUE SOUTH

Portland, Oregon
July 22, 1937

Purchasing Agent
City of Portland
208 City Hall
Portland, Oregon

Dear Sir:

We are pleased to attach hereto our bid covering our Cyclone Invincible Chain Link Fencing which you contemplate having erected around the Interstate Avenue Pipe Yard of the Bureau of Water Works.

The materials quoted on herein to be in strict accordance with the specifications and plans hereto attached.

The attached certified check covers approximately 10% of the amount of our bid.

Yours truly,

STANDARD FENCE COMPANY

B. L. LEGG

BLL:N

age Yards

STANDARD FENCE COMPANY
400 North East 11th Avenue
PORTLAND . . . OREGON
East 8105

OPEN
3 1937 2 P. M.
D CHECK
Successful bidder
bond for faithful
act.

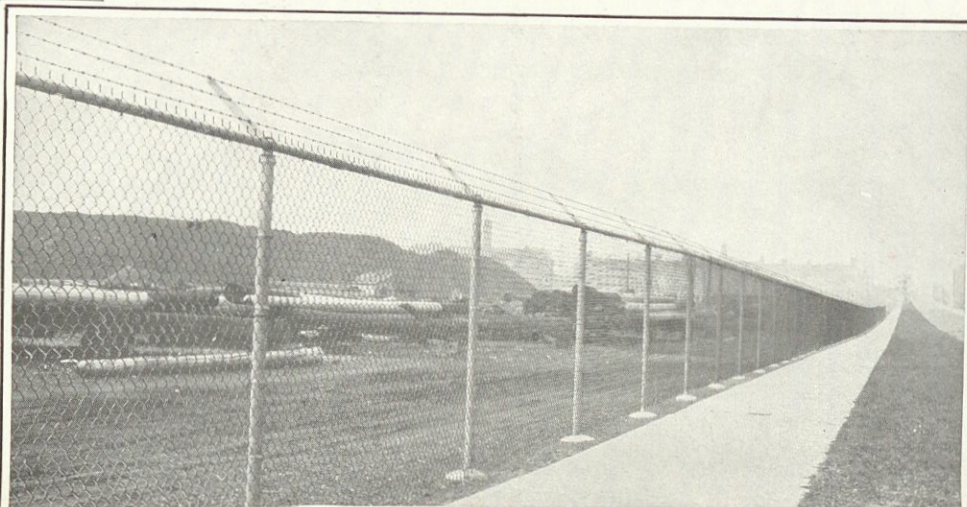


Plate 415

and the quality of the materials to be furnished, hereby propose to furnish materials and labor required for the manufacture, delivery and erection, complete, of the following wire fencing and gates at the Interstate Avenue Pipe Yard of the Bureau of Water Works of the City of Portland, Oregon, all to be in strict accordance with the specifications and plan hereto attached, at the following rates and amounts, viz:

1173 lineal feet, 7 ft. height overall, Chain Link galvanized #9 wire Fence, complete, with suitable posts, extension arms, barbed wire, etc., in place,.....@ \$1.06343 Ft.=\$1247.40

2 Pairs, 16 Ft. opening, Double Swing, Chain Link, galvanized wire gates to match above Fence, complete, in place.....@ \$51.48 Ea. =\$102.96

399 lineal feet Chain Link, galvanized, #11 Wire Fence, with suitable posts, extension arms, barbed wire., etc., necessary to raise existing 4-ft. fence to a height of seven (7) feet, overall, complete, in place.....@ \$.45714 Ft.=\$182.40

TOTAL-----\$1532.76

Trade or cash discounts: None

Erection of the foregoing to be commenced on or before July 28, 1937

and completed on or before August 18th, 1937

It is understood and agreed that the quantities stated are approximate only and are given for the purpose of comparing bids on a uniform basis; that payment will be made only for materials furnished and work actually performed, whether greater or less than the estimated amount; and that the right is reserved by the City to reject any or all bids, or to accept the proposal of any bidder.

BIDS OPEN

DATE JUL 23 1937 2 P. M.

CERTIFIED CHECK

must accompany bid. Successful bidder must furnish suitable bond for faithful performance of contract.

PROPOSAL

-for-

FURNISHING AND INSTALLING WIRE FENCE AND GATES AT
INTERSTATE AVENUE PIPE YARD OF BUREAU
OF WATER WORKS.

Portland, Oregon, July 22, 1937.

To the Purchasing Agent,
Room 208 City Hall,
Portland, Oregon.

Dear Sir:-

The undersigned, having full knowledge of the work to be done and the quality of the materials to be furnished, hereby propose to furnish materials and labor required for the manufacture, delivery and erection, complete, of the following wire fencing and gates at the Interstate Avenue Pipe Yard of the Bureau of Water Works of the City of Portland, Oregon, all to be in strict accordance with the specifications and plan hereto attached, at the following rates and amounts, viz:

1173 lineal feet, 7 ft. height overall, Chain Link
galvanized #9 wire Fence, complete, with suitable posts, extension arms, barbed wire, etc.,
in place,.....@ ^{BSI} \$1.06343 Ft. = \$1247.40

2 Pairs, 16 Ft. opening, Double Swing, Chain
Link, galvanized wire gates to match above
Fence, complete, in place.....@ \$51.48 Ea. = \$102.96

399 lineal feet Chain Link, galvanized, #11 Wire
Fence, with suitable posts, extension arms,
barbed wire., etc., necessary to raise existing 4-ft. fence to a height of seven (7) feet,
overall, complete, in place.....@ \$.45714 Ft. = \$182.40

TOTAL-----\$ 1532.76

Trade or cash discounts: None

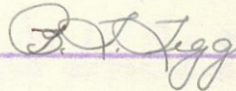
Erection of the foregoing to be commenced on or before July 28, 1937

and completed on or before August 18th, 1937

It is understood and agreed that the quantities stated are approximate only and are given for the purpose of comparing bids on a uniform basis; that payment will be made only for materials furnished and work actually performed, whether greater or less than the estimated amount; and that the right is reserved by the City to reject any or all bids, or to accept the proposal of any bidder.

Enclosed herewith is a certified check for \$ 175.00, the same being at least ten per cent. of the amount of the bid, payable to the order of the City of Portland, Oregon, as liquidated damages in case that we should fail or neglect to furnish the required bonds and execute the contract within ten days after receiving notice of the award.

(Signature) Standard Fence Company



by B. L. Legg, Clerk

(Address) 400 N.E. Eleventh Avenue, Portland, Oregon

The bidder shall state whether he is doing business as an individual, a copartnership, or as a corporation: Corporation

SPECIFICATIONS FOR WIRE FENCING AND WIRE GATES
AT INTERSTATE AVENUE PIPE YARD OF THE
BUREAU OF WATER WORKS,
PORTLAND, ORE.

The work to be done under these specifications consists in manufacturing, delivering and erecting, complete, approximately

1173 lineal feet, 7 feet high overall, Chain Link #9 Wire Fence, complete, with suitable posts, extension arms, barbed wire, etc., and

2 Pairs, 7 ft. high overall, by 16 ft. opening, double swing, Chain Link Wire Gates, complete, with extension arms, barbed wire, etc., and

399 lineal feet, including gate, 3 feet high overall, Chain Link #11 Wire Fence, complete, with suitable posts, extension arms, barbed wire, etc., to increase height of existing four foot fence and gate to an overall height of seven feet by extending the posts with tubing of the same diameter as that now in place, raising existing top rail and installing a two foot strip of wire fencing, extension arms and three strands of barbed wire, all to conform to the new fence as called for above,-

at the Pipe Yard of the Bureau of Water Works of the City of Portland, located at #1900 N. Interstate Avenue, Portland, Oregon.

The actual location of the fence is to be in the rear of the Water Bureau's Warehouse at the above address and is to surround Block 96, Albina Addition, and in accordance with the accompanying plan, Water Bureau File No. 5-AF-26.

All fence is to be constructed of copper-bearing chain link steel wire, woven in a 2-inch mesh and galvanized after weaving. The fencing used in the new fence is to be constructed of No. 9 gauge wire and of a height of six feet, exclusive of the extension arms. The fencing used to increase the height of the existing four foot fence is to be constructed of No. 11 gauge wire and of a height of two feet, exclusive of the extension arms.

The diameters specified below are for tubular posts and top rails. In any case where a structural shape is used it must be of at least equal strength and weight as the corresponding tubular member specified.

All line posts are to be not less than 2-1/2 inches outside diameter, tubular copper-bearing steel.

All end, corner and angle posts are to be not less than 3 inches outside diameter, tubular copper-bearing steel.

All gate posts are to be not less than 4 inches outside diameter tubular copper-bearing steel.

Posts are to be spaced in line of fence not farther apart than 10 ft. centers.

All posts are to be firmly embedded in a concrete base of an average width of not less than 12 inches, the base to extend not less than 36 inches below the surface of the ground at any part of its circumference.

Extension arms, set at an angle of 45° inward, are to be installed on all posts, each arm to carry three strands of 12-1/2 gauge barbed wire securely fastened; topmost strand to be 12 inches above the fabric and 12 inches inside the fence line.

A top rail of not less than 1-5/8 inches outside diameter is to connect all posts, forming a continuous brace from end to end of each stretch of fence.

All gate and corner posts are to be suitably braced by means of tubular steel braces of not less than 1-5/8 inches outside diameter.

All gates are to be double swing, giving a clear opening of approximately 16 feet, with a height of seven feet including the necessary extension arms to carry three barbed wires to suitable match the fence. The gates are to be framed of tubular steel of not less than 2 inches outside diameter, and are to contain the same wire fabric as the fence. Suitable hinges and straps must be provided to furnish the necessary rigidity and yet permit of ready and easy operation of the gates, either inward or outward. All gates must be provided with suitable latch so as to permit of readily locking the gates with padlocks.

It is to be understood that all materials entering into the construction of this fence are to be copper-bearing steel, malleable or wrought iron, heavily galvanized.

Delivery and erection of this fence is to be completed within the time specified by the bidder in his proposal. Before final payment shall be made to the contractor, the work herein described shall be completed to the entire satisfaction of the Engineer of the Bureau of Water Works of the City of Portland, Oregon, and the instructions of the Engineer regarding the meaning of these specifications shall be considered explanatory and shall be of binding force.

Payment for this fence shall be made in full upon the final completion of the work and its acceptance by the Engineer of the Bureau of Water Works.

With each proposal must be deposited a certified check for at least ten per cent. of the amount of the proposal, payable to the order of the City of Portland, Oregon, as liquidated damages in case the bidder, if awarded the contract, fails to execute it and furnish bonds acceptable to the Mayor and City Attorney of the City of Portland within ten days after receiving notice of the award.

The successful bidder will be required to furnish bonds, to be approved by the Mayor and City Attorney of the City of Portland, conditioned upon the faithful execution of the work herein described.

Any trade or cash discounts which may be deducted shall be stated by the bidder in his proposal.

The bidder's attention is called to the requirements of Section 49-701 and Section 49-704 Oregon Code, as amended by Chapter 206 Oregon Laws of 1935; to Chapter 280 Oregon Laws, 1931, and to the provisions of Section 2 of Ordinance No. 33689.

The City of Portland reserves the right to reject any and/or all bids, or to accept the proposal of any bidder.

Bidders shall state in their proposal whether they are doing business as an individual, a copartnership, or as a corporation.

Proposals must be enclosed in sealed envelopes, endorsed on the outside: "Proposal for Wire Fence," and addressed to the Purchasing Agent, City of Portland, Oregon.

By order of the Council.

BEN. S. MORROW,
Engineer and General Manager,
Bureau of Water Works.

Portland, Oregon,
July 8, 1937.

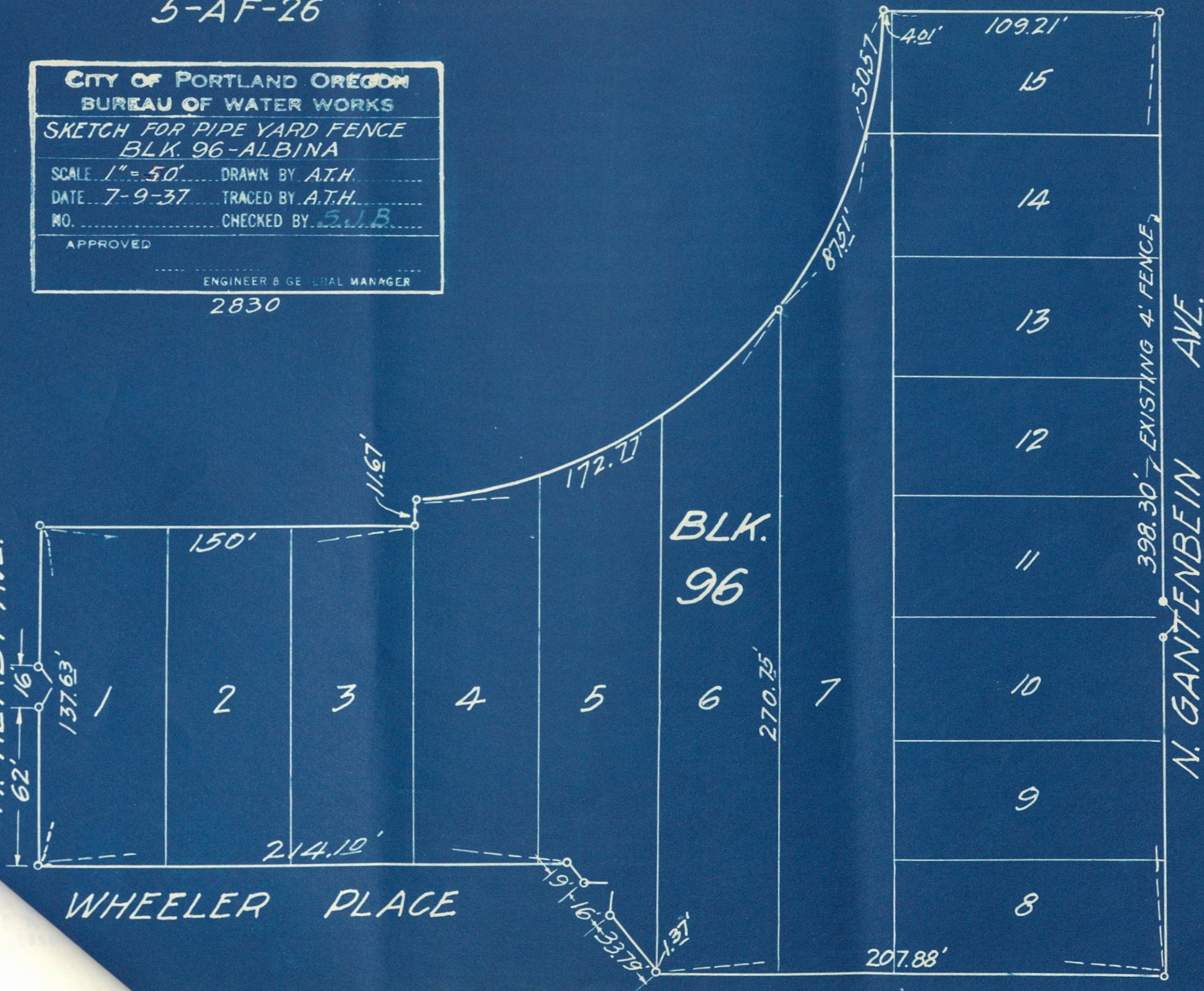
5-AF-26

CITY OF PORTLAND OREGON	
BUREAU OF WATER WORKS	
SKETCH FOR PIPE YARD FENCE	
BLK. 96-ALBINA	
SCALE $1" = 50'$	DRAWN BY A.T.H.
DATE 7-9-37	TRACED BY A.T.H.
NO.	CHECKED BY S.J.B.
APPROVED	
ENGINEER & GENERAL MANAGER	

2830



N. KERBY AVE.



Chain Link Fence Users

Greater Durability Apparent

One does not have to be a trained scientific or technical man to understand the greater durability of Cyclone Zinc-Coated-After-Weaving Chain Link Fence.

The economy of buying such a fence is obvious. It need not be painted.

What manufacturer or estate owner would not be proud to have his grounds enclosed with such a fence? And glad to know that he is getting all the many advantages of proper fencing at a lower cost than ever before. The long life of this Chain Link Fence eliminates further maintenance cost and places it in a class by itself, as compared with other fences on the market today.

What Cyclone Service Means To a Fence Buyer

The buyer of Cyclone Fence is assured by Cyclone Service of a thoroughly satisfactory solution of his fencing problems whatever they may be.

No matter where you live you can avail yourself of this unique fencing service. For Cyclone Service radiates from six plants, strategically located from coast to coast, and each a complete fencing unit. If you believe proper fencing might be of value to your plant or estate, avail yourself of the advice of this organization. Mail the enclosed post card and a representative will call upon you, study your problems, and make recommendations.

No obligation involved—we'll gladly make the investigation and report.

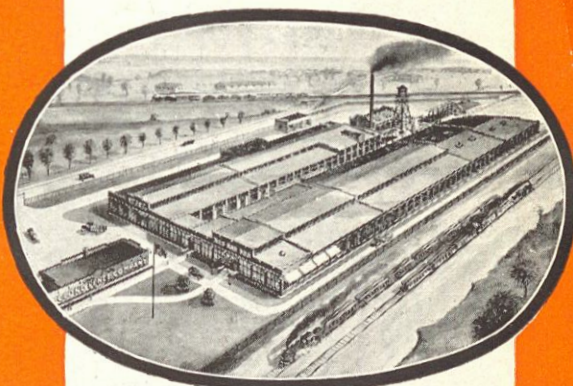
STANDARD FENCE COMPANY

400 North East 11th Avenue

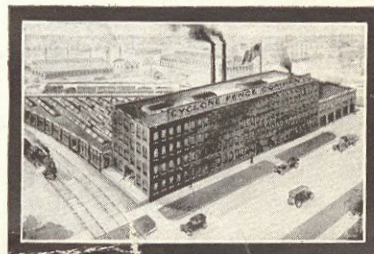
PORTLAND

East 8105

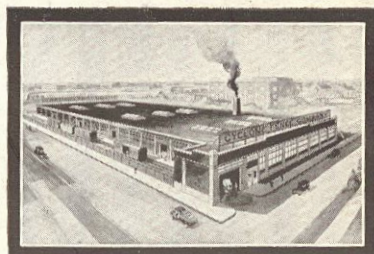
OREGON



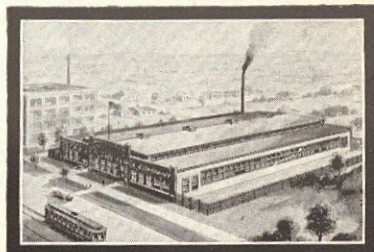
Waukegan, Illinois



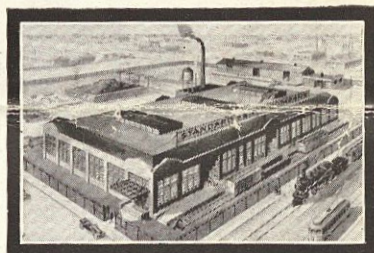
Cleveland, Ohio



Newark, New Jersey



Fort Worth, Texas



Oakland, California



Portland, Oregon



Fence

What This New Cyclone Fence Fabric Means to

Zinc Best Rust-Proofing Material

It has long been known and recognized that the best preventive of rust on steel or iron products is a heavy coating of zinc. From time to time other materials—such as paints, copper, tin, nickel, etc.—have been adopted for special purposes but have not proven as effective as zinc.

For many years the superiority of zinc as a protector from corrosion was acknowledged on a basis of experience only. In recent years, however, since the physical processes involved in galvanizing have become better understood, its supremacy has been established upon a scientific basis, and we are now able to give a rational explanation of its superiority over other metals as a rust-proofing agent. The accepted scientific explanation of the protection which a zinc coating affords to steel is as follows:

How Zinc-Coating Prevents Rust

Whenever two metals are brought into contact, an electrical couple is formed, similar to the two poles of a battery, of which one of the metals constitutes the positive and the other the negative pole. The oxygen of the atmosphere, which is the corroding element, attacks always the positive pole of such an electrical couple, leaving the negative pole untouched. When a zinc coating is deposited on steel an electrical couple of this kind is formed, of which zinc is the positive and steel the negative; the steel is therefore protected from the action of the atmosphere, and cannot be corroded as long as the zinc coating is present.

So today no one denies that a sufficiently heavy zinc-coating will prevent rust. Even manufacturers of wire fence who have used a so-called "rust-

resisting metal" or alloy, have resorted to zinc-coating the wire to provide the necessary protection against rust and various kinds of corrosion.

Method of Application was Problem

But the problem in chain link wire fence manufacture has been how to preserve that zinc coating through the stresses and abrasions of the weaving process. When wire with a sufficiently heavy coating of zinc to provide sure rust protection is used, the zinc cracks off in spots during fabrication, leaving bare metal exposed that, of course, soon rusts when attacked by the elements. The only alternative has been to use wire with a thinner coating of zinc, such as would stand the strain of machine fabrication without actually cracking off. To accomplish this it has been found necessary to keep the deposit of zinc down to about 25 to 30 pounds per ton of product.

This condition, too, has encouraged some manufacturers to go even further than necessary in keeping the zinc coating thin.

The Iron Age complains editorially as follows: "Competition among galvanizers is so keen that everyone is constrained to pare costs as much as possible. If anybody increased his cost and consequently his price by putting more spelter (zinc) on the steel he would lose business, inasmuch as users, generally ignorant, would not pay the price, but rather would take something looking the same and offered more cheaply."

All Previous Attempts Unsuccessful

The obvious disadvantages of galvanizing the wire before weaving into fence prompted some wire

manufacturers to attempt galvanizing *after* weaving. These attempts likewise were all unsuccessful. Cyclone perfected this new method, which has pronounced a thorough success after the severest tests possible have been made.

Cyclone Solves Age-Old Fence Problem

All these difficulties that have baffled manufacturers of chain link fence for many years have now been overcome by this new method, perfected by Cyclone Fence Company; and there is now a chain link fabric, heavily hot zinc-coated after weaving, yet identical in every other respect with the Chain-Link fabric that fence users have been familiar with for many years.

This new Cyclone method of chain-link making permits a coating of about 135 pounds of zinc to a ton of product—a rust-preventing coating almost five times as heavy as is possible with the galvanizing-before-weaving method.

Even the cut ends of the fabric are heavily protected by this new method. Not a single spot of bare steel is exposed on the face of this new Cyclone Fence is without its protecting coat of zinc.

Preece tests made by the Robert W. Hunt Company, Engineers of national reputation, show that Cyclone Chain Link Fence Fabric, Hot Zinc Coated After Weaving, stands eight one-minute dips in a copper solution before any evidence of copper is apparent on the wire. The test to which standard telegraph wire is subjected requires only four one-minute

STANDARD FENCE COMPANY
400 North East 11th Avenue
PORTLAND, OREGON
East 8105

CYCLONE FENCE COMPANY

Factories and Offices: Waukegan, Ill., Cleveland, Ohio, Newark, N. J.
Fort Worth, Texas, Oakland Cal., (Standard Fence Company)
Portland, Ore., (Northwest Fence and Wire Works)



Cyclone

BIDS OPEN

DATE JUL 23 1937 2 P. M.

CERTIFIED CHECK

must accompany bid. Successful bidder must furnish suitable bond for faithful performance of contract.

PROPOSAL

-for-

FURNISHING AND INSTALLING WIRE FENCE AND GATES AT INTERSTATE AVENUE PIPE YARD OF BUREAU OF WATER WORKS.

200⁰⁰

Portland, Oregon, July 23, 1937.

To the Purchasing Agent,
Room 208 City Hall,
Portland, Oregon.

Dear Sir:-

The undersigned, having full knowledge of the work to be done and the quality of the materials to be furnished, hereby propose to furnish materials and labor required for the manufacture, delivery and erection, complete, of the following wire fencing and gates at the Interstate Avenue Pipe Yard of the Bureau of Water Works of the City of Portland, Oregon, all to be in strict accordance with the specifications and plan hereto attached, at the following rates and amounts, viz:

1173 lineal feet, 7 ft. height overall, Chain Link
galvanized #9 wire Fence, complete, with suit-
able posts, extension arms, barbed wire, etc.,
in place,.....@ \$ 1.44 Ft. = \$1689.12

2 Pairs, 16 Ft. opening, Double Swing, Chain
Link, galvanized wire gates to match above
Fence, complete, in place.....@ \$ 64.58 Ea. = \$ 129.16

399 lineal feet Chain Link, galvanized, #11 Wire
Fence, with suitable posts, extension arms,
barbed wire., etc., necessary to raise exist-
ing 4-ft. fence to a height of seven (7) feet,
overall, complete, in place.....@ \$ 0.44 Ft. = \$175.56

TOTAL-----\$1993.84

Trade or cash discounts: Net

Erection of the foregoing to be commenced on or before 2 days after notice
of acceptance

and completed on or before within 18 days

It is understood and agreed that the quantities stated are approximate only and are given for the purpose of comparing bids on a uniform basis; that payment will be made only for materials furnished and work actually performed, whether greater or less than the estimated amount; and that the right is reserved by the City to reject any or all bids, or to accept the proposal of any bidder.

\$200.00

Enclosed herewith is a certified check for \$ ~~100.00~~ the same being at least ten per cent. of the amount of the bid, payable to the order of the City of Portland, Oregon, as liquidated damages in case that he should fail or neglect to furnish the required bonds and execute the contract within ten days after receiving notice of the award.

S. H. PALMER DOING BUSINESS AS THE
WESTERN FENCE & WIRE WORKS

(Signature)

S. H. Palmer

(Address)

1315 SE 9th Avenue

Portland, Oregon

The bidder shall state whether he is doing business as an individual, a copartnership, or as a corporation: Individual

BIDS OPEN

DATE JUL 23 1937 2 P. M.

CERTIFIED CHECK

must accompany bid. Successful bidder must furnish suitable bond for faithful performance of contract.

PROPOSAL

-for-

FURNISHING AND INSTALLING WIRE FENCE AND GATES AT INTERSTATE AVENUE PIPE YARD OF BUREAU OF WATER WORKS.

205°

Portland, Oregon, July 22, 1937.

To the Purchasing Agent,
Room 208 City Hall,
Portland, Oregon.

Dear Sir:-

The undersigned, having full knowledge of the work to be done and the quality of the materials to be furnished, hereby propose to furnish materials and labor required for the manufacture, delivery and erection, complete, of the following wire fencing and gates at the Interstate Avenue Pipe Yard of the Bureau of Water Works of the City of Portland, Oregon, all to be in strict accordance with the specifications and plan hereto attached, at the following rates and amounts, viz:

1173 lineal feet, 7 ft. height overall, Chain Link
galvanized #9 wire Fence, complete, with suitable posts, extension arms, barbed wire, etc.,
in place,.....@ \$1.45 Ft.= \$1700.85

2 Pairs, 16 Ft. opening, Double Swing, Chain
Link, galvanized wire gates to match above
Fence, complete, in place.....@ \$59.20 Ea. = \$118.40

399 lineal feet Chain Link, galvanized, #11 Wire
Fence, with suitable posts, extension arms,
barbed wire., etc., necessary to raise existing 4-ft. fence to a height of seven (7) feet,
overall, complete, in place.....@ \$.52 Ft.= \$207.48

TOTAL-----\$208.73

Trade or cash discounts: Net

Erection of the foregoing to be commenced on or before ten (10) days

and completed on or before forty (40) days after award of contract

It is understood and agreed that the quantities stated are approximate only and are given for the purpose of comparing bids on a uniform basis; that payment will be made only for materials furnished and work actually performed, whether greater or less than the estimated amount; and that the right is reserved by the City to reject any or all bids, or to accept the proposal of any bidder.

Enclosed herewith is a certified check for \$ 205.00, the same being at least ten per cent. of the amount of the bid, payable to the order of the City of Portland, Oregon, as liquidated damages in case that they should fail or neglect to furnish the required bonds and execute the contract within ten days after receiving notice of the award.

(Signature) THE E. J. BARTELLS COMPANY

BY *E. J. Bartells Pres.*

(Address) 677 North Tillamook Street,

Portland, Oregon

The bidder shall state whether he is doing business as an individual, a copartnership, or as a corporation: Corporation

SPECIFICATIONS FOR WIRE FENCING AND WIRE GATES
AT INTERSTATE AVENUE PIPE YARD OF THE
BUREAU OF WATER WORKS,
PORTLAND, ORE.

The work to be done under these specifications consists in manufacturing, delivering and erecting, complete, approximately

1173 lineal feet, 7 feet high overall, Chain Link #9 Wire Fence, complete, with suitable posts, extension arms, barbed wire, etc., and

2 Pairs, 7 ft. high overall, by 16 ft. opening, double swing, Chain Link Wire Gates, complete, with extension arms, barbed wire, etc., and

399 lineal feet, including gate, 3 feet high overall, Chain Link #11 Wire Fence, complete, with suitable posts, extension arms, barbed wire, etc., to increase height of existing four foot fence and gate to an overall height of seven feet by extending the posts with tubing of the same diameter as that now in place, raising existing top rail and installing a two foot strip of wire fencing, extension arms and three strands of barbed wire, all to conform to the new fence as called for above,-

at the Pipe Yard of the Bureau of Water Works of the City of Portland, located at #1900 N. Interstate Avenue, Portland, Oregon.

The actual location of the fence is to be in the rear of the Water Bureau's Warehouse at the above address and is to surround Block 96, Albina Addition, and in accordance with the accompanying plan, Water Bureau File No. 5-AP-26.

All fence is to be constructed of copper-bearing chain link steel wire, woven in a 2-inch mesh and galvanized after weaving. The fencing used in the new fence is to be constructed of No. 9 gauge wire and of a height of six feet, exclusive of the extension arms. The fencing used to increase the height of the existing four foot fence is to be constructed of No. 11 gauge wire and of a height of two feet, exclusive of the extension arms.

The diameters specified below are for tubular posts and top rails. In any case where a structural shape is used it must be of at least equal strength and weight as the corresponding tubular member specified.

All line posts are to be not less than 2-1/2 inches outside diameter, tubular copper-bearing steel.

All end, corner and angle posts are to be not less than 3 inches outside diameter, tubular copper-bearing steel.

All gate posts are to be not less than 4 inches outside diameter tubular copper-bearing steel.

Posts are to be spaced in line of fence not farther apart than 10 ft. centers.

All posts are to be firmly embedded in a concrete base of an average width of not less than 12 inches, the base to extend not less than 36 inches below the surface of the ground at any part of its circumference.

Extension arms, set at an angle of 45° inward, are to be installed on all posts, each arm to carry three strands of 12-1/2 gauge barbed wire securely fastened; topmost strand to be 12 inches above the fabric and 12 inches inside the fence line.

A top rail of not less than 1-5/8 inches outside diameter is to connect all posts, forming a continuous brace from end to end of each stretch of fence.

All gate and corner posts are to be suitably braced by means of tubular steel braces of not less than 1-5/8 inches outside diameter.

All gates are to be double swing, giving a clear opening of approximately 16 feet, with a height of seven feet including the necessary extension arms to carry three barbed wires to suitable match the fence. The gates are to be framed of tubular steel of not less than 2 inches outside diameter, and are to contain the same wire fabric as the fence. Suitable hinges and straps must be provided to furnish the necessary rigidity and yet permit of ready and easy operation of the gates, either inward or outward. All gates must be provided with suitable latch so as to permit of readily locking the gates with padlocks.

It is to be understood that all materials entering into the construction of this fence are to be copper-bearing steel, malleable or wrought iron, heavily galvanized.

Delivery and erection of this fence is to be completed within the time specified by the bidder in his proposal. Before final payment shall be made to the contractor, the work herein described shall be completed to the entire satisfaction of the Engineer of the Bureau of Water Works of the City of Portland, Oregon, and the instructions of the Engineer regarding the meaning of these specifications shall be considered explanatory and shall be of binding force.

Payment for this fence shall be made in full upon the final completion of the work and its acceptance by the Engineer of the Bureau of Water Works.

With each proposal must be deposited a certified check for at least ten per cent. of the amount of the proposal, payable to the order of the City of Portland, Oregon, as liquidated damages in case the bidder, if awarded the contract, fails to execute it and furnish bonds acceptable to the Mayor and City Attorney of the City of Portland within ten days after receiving notice of the award.

The successful bidder will be required to furnish bonds, to be approved by the Mayor and City Attorney of the City of Portland, conditioned upon the faithful execution of the work herein described.

Any trade or cash discounts which may be deducted shall be stated by the bidder in his proposal.

The bidder's attention is called to the requirements of Section 49-701 and Section 49-704 Oregon Code, as amended by Chapter 206 Oregon Laws of 1935; to Chapter 280 Oregon Laws, 1931, and to the provisions of Section 2 of Ordinance No. 33689.

The City of Portland reserves the right to reject any and/or all bids, or to accept the proposal of any bidder.

Bidders shall state in their proposal whether they are doing business as an individual, a copartnership, or as a corporation.

Proposals must be enclosed in sealed envelopes, endorsed on the outside: "Proposal for Wire Fence," and addressed to the Purchasing Agent, City of Portland, Oregon.

By order of the Council.

BEN. S. MORROW,
Engineer and General Manager,
Bureau of Water Works.

Portland, Oregon,
July 8, 1937.

5-AF-26

CITY OF PORTLAND OREGON	
BUREAU OF WATER WORKS	
SKETCH FOR PIPE YARD FENCE	
BLK. 96-ALBINA	
SCALE 1" = 50'	DRAWN BY A.T.H.
DATE 7-9-37	TRACED BY A.T.H.
NO.	CHECKED BY S.J.B.
APPROVED	
ENGINEER & GENERAL MANAGER	

2830



N. KERBY AVE.



BIDS OPEN

DATE JUL 23 1937 2 P. M.

CERTIFIED CHECK

must accompany bid. Successful bidder must furnish suitable bond for faithful performance of contract.

PROPOSAL

-for-

FURNISHING AND INSTALLING WIRE FENCE AND GATES AT
INTERSTATE AVENUE PIPE YARD OF BUREAU
OF WATER WORKS.

23185

Portland, Oregon, July 23, 1937.

To the Purchasing Agent,
Room 208 City Hall,
Portland, Oregon.

Dear Sir:-

The undersigned, having full knowledge of the work to be done and the quality of the materials to be furnished, hereby propose to furnish materials and labor required for the manufacture, delivery and erection, complete, of the following wire fencing and gates at the Interstate Avenue Pipe Yard of the Bureau of Water Works of the City of Portland, Oregon, all to be in strict accordance with the specifications and plan hereto attached, at the following rates and amounts, viz:

1173 lineal feet, 7 ft. height overall, Chain Link
galvanized #9 wire Fence, complete, with suitable posts, extension arms, barbed wire, etc.,
in place,.....@ \$ 1.50 Ft.=\$ 1,759.50

2 Pairs, 16 Ft. opening, Double Swing, Chain
Link, galvanized wire gates to match above
Fence, complete, in place.....@ \$ 80.00 Ea. =\$ 160.00

399 lineal feet Chain Link, galvanized, #11 Wire
Fence, with suitable posts, extension arms,
barbed wire., etc., necessary to raise existing 4-ft. fence to a height of seven (7) feet,
overall, complete, in place.....@ \$ 1.00 Ft.=\$ 399.00

TOTAL-----\$ 2,318.50

Trade or cash discounts: Net

Erection of the foregoing to be commenced on or before August 1st, 1937

and completed on or before August 15th, 1937

It is understood and agreed that the quantities stated are approximate only and are given for the purpose of comparing bids on a uniform basis; that payment will be made only for materials furnished and work actually performed, whether greater or less than the estimated amount; and that the right is reserved by the City to reject any or all bids, or to accept the proposal of any bidder.

CITY OF PORTLAND

Enclosed herewith is a certified check for \$ 231.85, the same being at least ten per cent. of the amount of the bid, payable to the order of the City of Portland, Oregon, as liquidated damages in case that we should fail or neglect to furnish the required bonds and execute the contract within ten days after receiving notice of the award.

PORTLAND WIRE & IRON WORKS,

(Signature) _____

By

A. H. Foster

Manager

(Address) _____

4644 S.E. 17th Ave.,

Portland, Oregon

The bidder shall state whether he is doing business as an individual, a copartnership, or as a corporation: Corporation, incorporated under the laws of Oregon Sept. 6, 1906



CITY OF PORTLAND, OREGON

DEPARTMENT OF FINANCE

R. E. RILEY, COMMISSIONER

BUREAU OF PURCHASES & STORES

LEE A. BAUMHOVER
PURCHASING AGENT

July 30, 1937

TO THE COUNCIL:-

Your Purchasing Agent, to whom was delegated authority, under Ordinance No. 69791, to advertise for bids for furnishing and installing wire fence for the Bureau of Water Works, respectfully recommends that the bid of the Standard Fence Company, at a total cost of \$1532.76, be accepted. This was the lowest bid received.

Your Purchasing Agent further recommends that a bond in the sum equal to 100% of the total amount of their bid be furnished by the Standard Fence Company.

Respectfully submitted,

Lee A. Baumhover
Purchasing Agent

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