

COPY

C4

CALIFORNIA CORRUGATED CULVERT CO.

FILE

409 LeRoy St.

Los Angeles Aug. 1, 1913.

Cuyamaca Water Co.
San Diego, Cal.

C. W. CO.

Gentlemen:-

We wish to thank you for the order given our Mr. R. H. Clark for smooth flume to be shipped to you at Lakeside Cal. direct from Middletown, Ohio, as follows:

800 ft.	#108 #20 gauge smooth flume, straight	A 1.62	1296.00
50 "	108 " " " " " on radius 50 ft.		
50 "	108 " " " " " " " 100 ft		
100 "	108 " " " " " " " 200 ft		
Total 200 "	on curve	a 2.03	406.00

1650 ft	#60 #22 gauge smooth flume straight	a .75	1237.50
200 "	60 22 " " " on radius 40 ft.	.94	188.
Total being fob Middletown			3127.50
Less 15%			469.13
			2658.37

TERMS: - Cash on delivery - sight draft attached to bill of lading.

plus freight on			
1000 ft #108	a 25.47 lbs per foot =	25,470 lbs.	
1850 " 60	12.97 " " " =	23,994 "	
		49,464 " a 1.90	939.82

Total f.o.b. Lakeside being ----- 3598.19

The above order is accepted with the understanding that prices quoted will apply if the entire shipment can be made in one car so as to obtain the carload rate of freight on which quotation has been based, and with the understanding that if it is not possible to load the entire shipment in one car we can leave out as much of the straight #108 flume as may be necessary to accomplish this to confine the shipment to one car.

Since, we understand from Mr. Clark that the measurements furnished covering that part of the flumes to be built on curve are approximate, we will ask you to furnish us at the earliest possible moment exact details as to what is required, basing same on center line measurements, and telegraphing the information to this company at its West Berkeley office.

Form 2

C1

THE WESTERN UNION TELEGRAPH COMPANY.

24,000 OFFICES IN AMERICA. CABLE SERVICE TO ALL THE WORLD.

ROBERT C. CLOWRY, President and General Manager.

Receiver's No.	Time Filled	Check
		July 1913

SEND the following message subject to the terms on back hereof, which are hereby agreed to.

COPY 190

To P. L. Echols
California Corrugated Culvert Co.
409 Leroy St.
Los Angeles, Cal.

C. W. CO.

Are prepared to contract for considerable steel flume for Cuyamaca Water Company. Come tomorrow if possible.
William S. Post.

FILE

READ THE NOTICE AND AGREEMENT ON BACK.

C.W.Co. #2

COPY

We have wired your order forward as far as was possible pending the receipt of further details, above mentioned, and have urged promptest possible manufacture of your order.

The American Rolling Mill Company have promised us shipment on flume orders within six weeks from receipt by them of specifications, but we have urged them to anticipate this on your order as much as possible.

We hope within a short time to be in position to manufacture this type of flume on the Coast, when your orders will receive very prompt attention and delivery.

Yours very truly,

CALIFORNIA CORRUGATED CULVERT CO.

By R. C. Force.

RCF:JW

C4

COPY C. W. CO. C6

FILE

August 2, 1913.

California Corrugated Culvery Co.,

409 LoRoy St.. Los Angeles.

Gentlemen:

Acknowledging your letter of Aug. 1st, your understanding is correct, that you will load one car upon this order, leaving out as much straight #108 flume "as may be necessary to accomplish this, to confine the shipment to one car."

We hope to telegraph you ^{at the West Berkeley office} /on Monday at the latest, the exact center line measurements for curves on #108 flume.

We note with pleasure that you have arranged to rush this order.

Very truly yours,

WSP-WK

NIGHT LETTER

THE WESTERN UNION TELEGRAPH COMPANY

25,000 OFFICES IN AMERICA CABLE SERVICE TO ALL THE WORLD
THEO. N. VAIL, PRESIDENT BELVIDERE BROOKS, GENERAL MANAGER

RECEIVER'S No. TIME FILED CHECK

SEND the following NIGHT LETTER subject to the terms on back hereof which are hereby agreed to

9/19/1913.

CUYAMACA WATER CO.
SAN DIEGO, CAL.

CONFIRMATION OF TELEGRAM
CONFIRMATION OF TELEGRAM

FLUME ORDER PROMISED SHIP FORWARD TUESDAY. REFERRING ADDITIONAL REQUIREMENTS SIX HUNDRED SIXTY FEET NUMBER SIXTY FLUME ON CURVE WILL DELAY SHIPMENT ONE WEEK AFTER DETAILS RECEIVED. IF YOU DESIRE THESE ADDITIONAL SPECIFICATIONS INCLUDED IN CAR RUSH FORWARD DETAILS TO US BY SPECIAL DELIVERY ALSO WIRE US OUR EXPENSE SO WE CAN INSTRUCT MILLS.

CALIFORNIA CORRUGATED CULVERT CO.

PAID.

THE WESTERN UNION TELEGRAPH COMPANY

25,000 OFFICES IN AMERICA CABLE SERVICE TO ALL THE WORLD
THEO. N. VAIL, PRESIDENT BELVIDERE BROOKS, GENERAL MANAGER

RECEIVER'S No. TIME FILED CHECK

C. W. CO. FILE

SEND the following message subject to the terms on back hereof, which are hereby agreed to

Sept. 18, 1913.

California Corrugated Culvert Co.
West Berkeley, Calif.

Report by telegraph progress on our order July 30th. very important to get material. We need 660 linear feet additional of number sixty flume. ~~we need 660 linear feet additional of number sixty flume.~~ all curves. can you guarantee delivery in thirty days?

Cuyamaca Water Co.
By W S Post

(Charge Cuyamaca Water Co.)

WESTERN UNION

NIGHT LETTER

THEO. N. VAIL, PRESIDENT

RECEIVED AT

10GS RD 60 N L

BERKELEY CAL SEPT 19 1913

CUYAMACA WATER CO

CARE W S POST SAN DIEGO CALIF

SHIPMENT FLUME ORDER PROMISED FORWARD TUESDAY REFERRING ADDITIONAL REQUIREMENT SIX HUNDRED SIXTY FEET NUMBER SIXTY FLUME ON CURVE WILL DELAY SHIPMENT ONE WEEK AFTER DETAIL RECEIVED CAR SHOULD BE SEVENTEEN DAYS IN TRANSIT IF YOU DESIRE THESE ADDITIONAL SPECIFICATIONS INCLUDED IN CAR RUSH FORWARD DETAILS TO US BY SPECIAL DELIVERY ALSO WIRE US OUR EXPENSE SO WE CAN INSTRUCT MILLS

CALIFORNIA CORRUGATED CULVERT CO

SEPT 20 128AM

FILE

C. W. CO.

WESTERN UNION

RECEIVERS NO. TIME FILED CHECK

NIGHT LETTER

THEO. N. VAIL, PRESIDENT

C. W. CO.

Sept. 19, 1913 **FILE**

SEND the following Night Letter, subject to the terms on back hereof, which are hereby agreed to

CALIFORNIA CORRUGATED CULVERT CO.
409 Leroy Street,
Los Angeles, Cal.

No reply from West Berkeley relative to whereabouts of Cuyamaca Water Company order July thirtieth Steel Flume. Please report when we may expect material.

William S. Post,
Engineer.

(CHARGE CUYAMACA WATER CO)

WESTERN UNION

Form 2380

C-12

RECEIVERS NO

TIME FILED

CHECK



DAY LETTER W. CO. THEO. N. VAIL, PRESIDENT

FILE

SEND the following Day Letter, subject to the terms on back hereof, which are hereby agreed to

Sept. 20, 1913.

California Corrugated Culvert Co.
West Berkeley, Calif.

Do not delay car but rush thru as originally ordered will not order extra six hundred feet mentioned in telegram.

William S Post.

(CHARGE CUYAMACA WATER CO)

WESTERN UNION

Form 1864

C-13

TELEGRAM

THEO. N. VAIL, PRESIDENT

RECEIVED AT

273GS J 8

LOS ANGELES CAL SEP 20 1913

WM S POST

SANDIEGO CAL

OUR BERKELEY OFFICE REPORTS WIRED YOU LAST NIGHT

CALIF CORRUGATED CULVERT CO

319P

209

G. H. FORCE, PRESIDENT
R. B. GAYLORD, V. PRESIDENT

R. C. FORCE, TREASURER
H. W. FORCE, SECY. & MGR.

C-16

CALIFORNIA CORRUGATED CULVERT CO.

AMERICAN INGOT IRON PRODUCTS



57th & PARKER STS.
TELEPHONE BERK. 5420

FACTORIES
WEST BERKELEY
LOS ANGELES

WEST BERKELEY Sept. 20, 1913.

Mr. William S. Post,
c/o Cayamaca Water Company,
San Diego, California.

Dear Sir:

Referring to your wire to us requesting status of your Flume order, are pleased to advise that immediately we received your request, wire was sent forward to our Mills requesting information as to when Flume order would be shipped.

We yesterday received advice by wire to the effect that car would move forward Tuesday, and therefore wired you as per attached confirmation.

Upon receiving your wire today advising that car be rushed forward, we immediately wired our Mills requesting that shipment move forward Tuesday as per their promise, and also that they wire us car number and initials, so that everything possible can be done to trace car and insure its making good time in transit.

You may be sure we will do everything in our power to expedite delivery, and regret the delay already involved.

Very truly yours,

CALIFORNIA CORRUGATED CULVERT CO.

W. P. Hodgkin
Asst. Secretary.

CRH:SOS.

G. H. FORCE, PRESIDENT
R. B. GAYLORD, V. PRESIDENT

R. C. FORCE, TREASURER
H. W. FORCE, SECY. & MGR.

CALIFORNIA CORRUGATED CULVERT CO.

AMERICAN INGOT IRON PRODUCTS



57th & PARKER STS.
TELEPHONE BERK. 5420

FACTORIES
WEST BERKELEY
LOS ANGELES

FILE

C. W. CO.

WEST BERKELEY Sept. 27, 1913.

Mr. William S. Post,
Engineer Cayamaca Water Co.,
San Diego, Calif.

Dear Sir:

We are just in receipt of report from our Mr. E. C. Campbell, and do not blame you in the least for feeling as you do regarding your flume order. We feel even worse, as when we give a definite promise of shipment, it is our policy to endeavor to live up to it to the letter.

In the present instance the matter of shipment was more or less out of our hands, as having the order made in Middletown, Ohio, did not allow anyone from this Company being constantly on the job and seeing to it that the right kind of service was given and the job kept in constant operation. We have however learned a great deal from this experience, and hope you will not gauge our method of handling orders by the way in which this order was bungled.

We have our own flume machinery ordered, and expect before the first of the year to be in position to turn out smooth flume here at West Berkeley. Mr. Campbell advises that during the next six months you will be in the market for many miles of flume. With our own machinery here and material in stock, we will be in position to give you such action as will meet with your approval.

Our Los Angeles Office has sent us copy of your letter of August 16th wherein you request prices on 5,000 feet of #156 18 gauge American Ingot Iron Smooth Flume. We also note their reply of the 20th. In Mr. Campbell's report he requests that you be quoted prices based on delivery from our plant here, and we take pleasure in quoting you on this size as follows:

#156 (99.5") American Ingot Iron Smooth Flume	\$3.07
Freight to Escandido	.12
	<u>\$3.19</u>
#156 (99.5") American Ingot Iron Smooth Flume	\$3.07
Freight to Linda Vista	.11
	<u>\$3.18</u>

These prices are net, and freight rate is based on quan-

W.S. R. #2.

tities shipped in carload lots.

Regretting the inconvenience caused you on your present order, and assuring you of fast action on your future business as soon as our West Berkeley plant is equipped with machinery, we remain

Very truly yours,

CALIFORNIA CORRUGATED CULVERT CO.

A. P. Hodgkin
Asst. Secretary.

CRH**

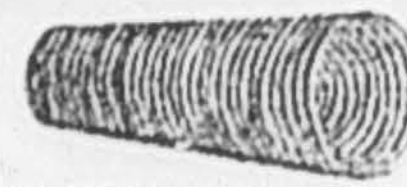
FILE

C. W. CO.

G. H. FORCE, PRESIDENT
R. B. GAYLORD, V. PRESIDENT

R. C. FORCE, TREASURER
H. W. FORCE, SECY. & MGR.

CALIFORNIA CORRUGATED CULVERT CO.
AMERICAN INGOT IRON PRODUCTS



511 & PARKER STS
TELEPHONE BERK. 8480

FACTORIES
WEST BERKELEY
LOS ANGELES

WEST BERKELEY Oct. 2, 1913.

Mr. William S. Post,
Engineer, Cuyamaca Water Co.,
San Diego, Cal.

Dear Sir:

Have just received advice from the Queen & Crescent route that your car of Flume - M. P. #28556 - destined Lakeside, was delivered to the Southern Pacific line at New Orleans on September 28th. From this point on, car is routed Southern Pacific to Los Angeles and Santa Fe to Lakeside. You may be sure we will keep behind this all possible and endeavor to hurry same to destination.

Trusting this information will prove of value, we remain

Very truly yours,

CALIFORNIA CORRUGATED CULVERT CO.

A. P. Hodgkin
Asst. Secretary.

CRH/EM

0-15



CLARENCE M. KNOX
DISTRICT FREIGHT AGENT

FILE

Form 1004

SUNSET ROUTE

OFFICE DISTRICT FREIGHT AGENT

607 SOUTH SPRING STREET

PHONES (BROADWAY 1345
HOME F. 5325)

C-14 Standard
12-16-10-6M

COMPOSED OF THE

GALVESTON, HARRISBURG & SAN ANTONIO RAILWAY

TEXAS & NEW ORLEANS RAILROAD

LOUISIANA WESTERN RAILROAD

MORGAN'S LOUISIANA AND TEXAS RAILROAD
AND STEAMSHIP COMPANY

SOUTHERN PACIFIC
ATLANTIC STEAMSHIP LINES

LOS ANGELES Oct 4 1913

File 8

Mr Wm S. Post, Chief Eng.,
Cuyamaca Water Co.,
San Diego, Cal.

Dear Sir

The California Corrugated Culvert Co. have just called me on the phone with reference to location of MP. 28556 consigned to you at Lakeside.

This car was delivered to us by the Q&C at New Orleans on Sept 28th, came out on the same day, arrived at Lake Charles, La., on the afternoon of the 29th and was held there until yesterday on account of the river at Lake Charles over-flowing and covering our tracks for two miles. However we have taken steps to detour trains and it now looks as though car should reach Los Angeles by the 12th of this month.

At the request of the California Corrugated Culvert Co. I have put out wires to see that this car is gotten through as quickly as possible.

By reference to either the Times or Examiner of the 3rd inst., you will see that southern Texas and Louisiana had something like 20 inches of rain in five days thereby demoralizing freight traffic. Cars which left New Orleans on the 27th, getting by the high water, reached here today - seven days, which is our schedule.

Yours truly

C. M. Knox

CMK-M

Cy Cal Cor Culvert Co.
409 Leroy St
Los Angeles

7



(THIS SIDE OF CARD IS FOR ADDRESS ONLY)

*Wm Post Chief Eng.
Cuyamaca Water Co.
San Diego Cal*

SUNSET ROUTE



Form 5200

LOCAL 7-13-50



SUNSET ROUTE

OFFICE DISTRICT FREIGHT AGENT
607 SOUTH SPRING STREET

PHONES BROADWAY 1345
HOME F-82 15

LOS ANGELES, 10-15-191

FREIGHT PASSING REPORT

Take pleasure in advising that NY Car No. 28556

contain: 1g Home Mtg consigned to Del Car Club

at 10:00 passed EL Pass at 2 P N. 10-15-191

CLARENCE M. KNOX,
District Freight Agent.

G. H. FORCE, PRESIDENT
R. B. GAYLORD, V. PRESIDENT

R. C. FORCE, TREASURER
H. W. FORCE, SECY. & MGR.

CALIFORNIA CORRUGATED CULVERT CO.

AMERICAN INGOT IRON PRODUCTS



5TH & PARKER STS
TELEPHONE BERK. 5420

FACTORIES
WEST BERKELEY
LOS ANGELES

WEST BERKELEY OCTOBER 16, 1913.

C. W. CO.
FILE

Mr. W.M. Post, Engineer,
Cuyamaca Water Company,
San Diego, California.

Dear Sir:-

With further reference to your car of flume material, have today received the following letter from the Southern Pacific Co.:

Gentlemen:

This will acknowledge receipt of your letter of Oct. 9th relative to handling of car N.P.#28556 which should arrive Los Angeles about the middle of October.

We will see that same is delivered to the Santa Fe promptly on arrival.

Yours truly,

(Signed) J.G. STUBBS.

We also received passing-report that car was at Houston on the 12th.

Everything possible is being done at this end to get delivery through to you.

Very truly yours,

CALIFORNIA CORRUGATED CULVERT CO.

W. S. Post
Asst. Secretary.

CRH:SOS.

THE WESTERN UNION TELEGRAPH COMPANY

25,000 OFFICES IN AMERICA CABLE SERVICE TO ALL THE WORLD
THEO. N. VAIL, PRESIDENT BELVIDERE BROOKS, GENERAL MANAGER

RECEIVER'S No. TIME FILED CHECK

SEND the following message subject to the terms on back hereof, which are hereby agreed to } Dec. 10, 1913. 191

To California Corrugated Culvert Co.

5th & Parker St., Mr. Hodgkin

West Berkeley, California.

We are short ~~150~~ one hundred fifty double rod carriers for Humber one hundred eight flume. Can you furnish them in two days?

(Charge Cuyamaca Water Co.) Cuyamaca Water Co.
By W. S. Post, Engr.

WESTERN UNION

TELEGRAM

THEO. N. VAIL, PRESIDENT

RECEIVED AT

92GSCD 9

BERKELEY CAL DEC 11-1913

MR W S POST

CUAYAMACA WATER CO

SANDIEGO CAL

EXPRESSING YOU TODAY SANDIEGO HUNDRED FIFTY HANGER PLATES REQUESTED

CALIFORNIA CORRUGATED CULVERT CO

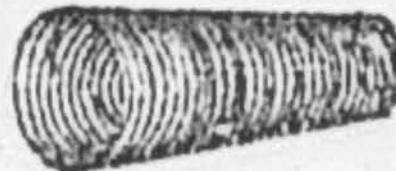
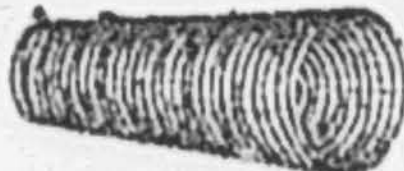
9:46AM

G. H. FORCE, PRESIDENT
R. B. GAYLORD, V. PRESIDENT

R. C. FORCE, TREASURER
H. W. FORCE, SECY. & MGR.

CALIFORNIA CORRUGATED CULVERT CO.

AMERICAN INGOT IRON PRODUCTS



5TH & PARKER STS.
TELEPHONE BERK. 5420

FACTORIES
WEST BERKELEY
LOS ANGELES

WEST BERKELEY Dec. 11, 1913.

Mr. W. S. Post, Engineer,
Cuyamaca Water Company,
San Diego, Cal.

C. W. CO.
FILE

Dear Sir:

In response to your telegram just received this morning, we wired you as per enclosed confirmation, and are pleased to enclose express receipt covering this shipment.

We have already expressed our views as to the service you have been given on this flume, and we would greatly appreciate a letter from you advising of the shortages which have occurred and any other trouble to which you have been put in the matter so that we can go after the Mills in the right way to have a thorough investigation made and in that way improve the service which they rendered.

Thanking you in advance for your co-operation in this matter, and trusting that the hanger plates will reach you promptly, we remain

Very truly yours,

CALIFORNIA CORRUGATED CULVERT CO.

C. W. Co.
Asst. Secretary.

CRH/EM

P. S. Express charges on this shipment have been prepaid by us, so there should be no charges at that end.

THE WESTERN UNION TELEGRAPH COMPANY

Form 1

25,000 OFFICES IN AMERICA.

INCORPORATED

CABLE SERVICE TO ALL THE WORLD

THOS. H. VAIL, PRESIDENT

BELVIDERE BROOKS, GENERAL MANAGER

RECEIVER'S No.	TIME FILED	CHECK

SEND the following message subject to the terms }
on back hereof, which are hereby agreed to

Went Berkeley, Cal. Dec. 11, 1913.

To W. S. Post,

o/o Cuyamaca Water Company,

San Diego, Calif.

Expressing you today San Diego hundred fifty hanger

plates requested.

CALIFORNIA CORRUGATED CULVERT CO.

(Paid)

707

Wells Fargo & Co Express

Read the Conditions of this Receipt

Value \$ 5.00

Berkeley Office, State of 12/11 1913

Received from Cal. Co., Cul. Co.

Said to Contain Metal VALUE Declared by Shipper 5.00 DOLLARS

Marked Cuyamaca Water Co., San Diego, Cal

which Wells Fargo & Company, hereinafter called the Company, undertakes to carry upon the following terms and conditions, to which the shipper hereby agrees, and as evidence of such agreement accepts this Shipping Receipt.

1. It is agreed that the Company relies upon railroads, steamboats, stage and other lines for transportation, and has no control over the same, and it is agreed that it shall not be liable for any damage to said property from delay to any railroad train, steamboat or other conveyance upon which the same may be carried.

2. The charge for forwarding the said property being based upon a valuation not exceeding Fifty (\$50) Dollars for any shipment of one hundred (100) pounds or less, and not exceeding Fifty (50c) Cents per pound for any shipment in excess of one hundred (100) pounds unless a greater value is declared at time of shipment, it is hereby agreed that the Company shall not be liable in any event for more than Fifty (\$50) Dollars upon any shipment of one hundred (100) pounds or less, or for more than Fifty (50c) Cents per pound on any shipment in excess of one hundred (100) pounds, unless a greater value is declared at time of shipment and additional charge for value paid, or agreed to be paid therefor.

3. If the said property is offered for shipment under the special rates named in Sections "11" and "12" of the existing Official Express Classification, it is agreed that the value of the same does not exceed Ten (\$10) Dollars per package, said rates not applying on packages of greater value.

4. If the Company has no office at destination it shall carry said property to its office nearest or most convenient to destination, and there notify the consignee or deliver said property to connecting carrier to complete transportation, and the Company shall not be liable for any loss or damage occurring after giving such notice to the consignee or after delivery to connecting carrier.

5. The Company, unless negligent, shall not be liable for loss of or damage or delay to said property caused by quarantine, customs regulations, strikes, riots, perils of navigation, fire or flood, the act of God, heat, cold, wet or decay; nor for the escape, injury or death of live birds or animals, the Company not being a common carrier thereof, except at owner's risk. Nor shall the Company be liable in any event for any loss of or damage or delay to said property from any cause whatever, unless the same shall be proved to have resulted from the fraud or negligence of the Company or its servants.

6. The said property being packed, secured and addressed by the shipper, it is agreed that the Company shall not be liable for any delay or damage to the same resulting from improper or insufficient packing, securing or marking, nor shall the Company be liable for any

damage to fragile articles or articles consisting wholly or in part of, or contained in, glass or chinaware, such shipments being accepted only at owner's risk. The Company shall not be liable for any loss of jewelry or valuable papers unless the same are separately packed, sealed and marked as such and so described herein.

7. If any U. S. It. is not paid by the consignee within thirty (30) days of the date hereof, it is agreed that the Company may at its option return said property to the shipper, who shall pay charges for transportation both ways, and the liability of the Company shall be that of warehouseman only, except during actual transportation and twenty-four (24) hours thereafter.

8. In no event shall the Company be liable for any loss, damage or delay unless written claim therefor shall be presented to it within ninety (90) days of the date of such loss, damage or delay and any suit or suits for or on account of such loss, damage or delay shall be brought within one (1) year from the date hereof or be barred, any statute of limitations to the contrary notwithstanding.

9. It is further agreed that the carrier or party liable on account of loss of or damage to said property shall have the full benefit of any insurance that may have been effected upon or on account of said property.

10. The Company shall not be required to deliver said property at destination except within its present established delivery limits, unless herein otherwise agreed and specially paid for; at points where the Company has no delivery service the consignee shall receive said property at the office of the Company.

11. If said property shall be forwarded upon Ocean Routes it is agreed that the regular bill of lading of any steamship company to whom the same may be delivered shall limit and define the Company's liability with respect to such ocean transportation, unless extra charge has been paid or agreed to be paid for marine insurance and is noted herein by the receiving agent of the Company.

12. All the terms and conditions of this receipt shall apply to any forwarding or return of said property and shall extend to and inure to the benefit of any person, company or corporation to whom the Company may deliver the said property for transportation, storage or delivery.

Charges Prepaid

NOT NEGOTIABLE

For Wells Fargo & Company
A. S. Sharkey

G. H. FORCE, PRESIDENT
R. B. GAYLORD, V. PRESIDENT

R. C. FORCE, TREASURER
H. W. FORCE, SECY. & MGR.

#267

CALIFORNIA CORRUGATED CULVERT CO.

AMERICAN INGOT IRON PRODUCTS



CABLE ADDRESS
"CULVERTS SAN FRANCISCO"

FACTORIES
WEST BERKELEY
LOS ANGELES

409 LEROY ST.
TELEPHONES SUNSET EAST 217
HOME F 6650

LOS ANGELES Feb. 8, 1917.

Mr. Thos. P. Ellis, Engineer,
c/o Vulcan Land & Water Company,
924 West Eighth Street,
San Diego, Calif.

Dear Sir:

Since writing you on January 31st we have made an effort to locate some further data regarding concrete end walls construction for Armco Iron Corrugated Culverts, but have not been able to get hold of anything except the enclosed blue print, which simply gives a general idea of how to proceed with this construction without entering into the details. We hope this will prove of service to you. We also enclose blue print showing various types of inverted siphons, thinking that you might have need for this type of construction in the future if not in the work you now have in hand.

We are also attaching hereto copies of specifications for "Galvanized Corrugated Metal Pipe" and "Part Circle Culverts". We trust these will relieve you of the trouble of working out your own set of specifications, as they cover all details thoroughly and culverts installed with these requirements will be of a very excellent quality.

Very truly yours,

CALIFORNIA CORRUGATED CULVERT COMPANY,

By *C. W. Webb*

CWW:KAS

410

#267

SPECIFICATIONS

GALVANIZED CORRUGATED METAL PIPE

GENERAL:—Pipe shall be straight, of true circular form, and of lengths and net internal diameters indicated.

ANALYSIS:—The metal composing all corrugated sheets and rivets used shall contain at least 99.84% iron, with no other single element present in excess of .05% (5/100 of 1%). The total content of Carbon, Copper, Manganese, Phosphorus, Silicon, Sulphur, Hydrogen, Nitrogen, Oxygen, and any other elements which may be found in excess of .01% (1/100 of 1%) shall not exceed .16% (16/100 of 1%).

SHEETS:—All sheets shall be prime stock, thoroughly galvanized with zinc spelter, which shall average not less than two (2) ounces per square foot of sheet.

The galvanizing shall be free from cracks or imperfections of any kind.

Corrugations in sheets shall be not more than two and three-quarters (2 3/4) inches in width and not less than one-half (1/2) inch in depth.

Gauge of sheets shall be as follows, U. S. Standard:

For diameters twenty-four (24) inches and less, number sixteen (16) gauge;

For diameters exceeding twenty-four (24) inches, but not more than forty-two (42) inches, number fourteen (14) gauge;

For diameters exceeding forty-two (42) inches, but not more than sixty-six (66) inches, number twelve (12) gauge;

For diameters exceeding sixty-six (66) inches, number ten (10) gauge.

RIVETS:—All rivets shall be of round head type and thoroughly galvanized with zinc spelter.

Rivets used with number sixteen (16) or number fourteen (14) gauge sheets shall be not less than five-sixteenths (5/16) inch in diameter, and not less than five-eighths (5/8) inch in length.

Rivets used with number twelve (12) gauge sheets shall be not less than three-eighths (3/8) inch in diameter, and not less than three-quarters (3/4) inch in length.

Rivets used with number ten (10) gauge sheets shall be not less than three-eighths (3/8) inch in diameter and not less than seven-eighths (7/8) inch in length.

RIVETING:—All rivets shall be placed with heads on outside of pipe, and in the recess or valley of corrugations. Upsetting of end of rivets on inside of pipe shall be accomplished in such manner as to not remove or destroy galvanizing.

Longitudinal joints shall be riveted on not to exceed two and three-quarter (2 3/4) inch centers, with one row of rivets in pipe twenty-four (24) inches or less in diameter, and two rows of rivets in pipe of larger diameters.

Circumferential joints of pipe of all diameters shall be riveted on not to exceed six (6) inch centers.

END REINFORCEMENT:—The ends of all culverts shall be reinforced by an iron rod of not less than one-half (1/2) inch in diameter and of a length equal to the circumference of the pipe, folded in the outer edge of sheets forming end sections; or by means of angle iron of dimensions not less than one and one-quarter (1 1/4) inches by one and one-quarter (1 1/4) inches by one-quarter (1/4) inch, and of a length equal to the circumference of the pipe; which shall be attached to outer edge of sheets forming end sections by means of rivets spaced not more than six (6) inches apart from center to center.

FIELD JOINTS:—Long lines of pipe may be furnished in sections of greatest length to permit of most economical shipment. End sheets of sections having a diameter of twenty-four (24) inches or more shall have holes provided for riveting of field joints which shall be done in accordance with construction of balance of pipe. For sections of pipe under twenty-four (24) inches diameter there shall be provided suitable bands or coupling devices for joining same securely together.

REJECTION:—Failure on the part of any pipe delivered to pass these specifications in any particular shall constitute cause for rejection of entire order.

#267

SPECIFICATIONS

PART CIRCLE CULVERTS

GENERAL:—The arches used in the culverts shall consist of galvanized, corrugated sheets of metal, curved to form segments of true circles and overlapped not less than one corrugation. Dimensions of segments shall relate to their net interior base and rise measurements, as shown on plans.

The base of culverts shall be composed of concrete made in accordance with requirements contained in Specifications for Concrete and dimensions of same shall be as shown on plans.

On each side of culverts for their entire length there shall be angle iron of dimensions not less than one and one-quarter (1 1/4) by one and one-quarter (1 1/4) by one-quarter (1/4) inches, fitted between the edges of metal sheets and concrete base, as shown on plans.

The overlapped edges of sheets at all branch joints shall be flanged and closely fitted in a workmanlike manner and shall be securely riveted together on not to exceed three (3) inch centers.

ANALYSIS:—The metal composing all corrugated sheets and rivets used shall contain at least 99.84% iron, with no other single element present in excess of .05% (5/100 of 1%). The total content of Carbon, Copper, Manganese, Phosphorus, Silicon, Sulphur, Hydrogen, Nitrogen, Oxygen, and any other elements which may be found in excess of .01% (1/100 of 1%) shall not exceed .16% (16/100 of 1%).

SHEETS:—All sheets unless otherwise shown on plans shall be No. 10 gauge, U. S. Standard.

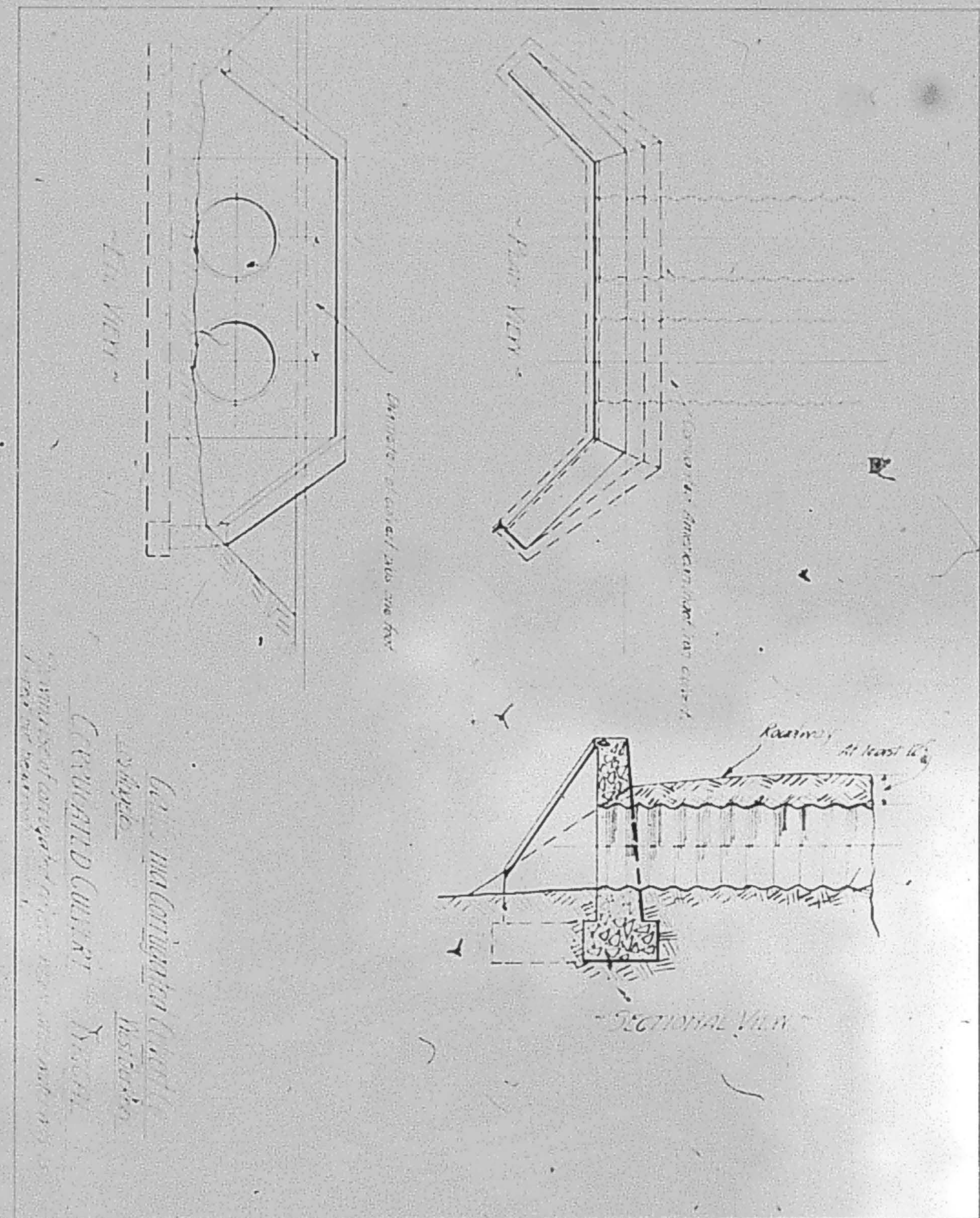
All sheets shall be prime stock, thoroughly galvanized with zinc spelter, which shall average not less than two (2) ounces per square foot of sheet.

The galvanizing shall be free from cracks or imperfections of any kind.

Corrugations in sheets shall be not more than two and three-quarters (2 3/4) inches in width and not less than one-half (1/2) inch in depth.

RIVETS:—All rivets shall be of round head type and thoroughly galvanized with zinc spelter.

END REINFORCEMENT:—The ends of all culverts shall be reinforced by means of angle iron of dimensions not less than one and one-quarter (1 1/4) by one and one-quarter (1 1/4) by one-quarter (1/4) inches and of a length equal to that of the sheets used, which shall be attached to outer edge of sheets forming end sections by means of rivets spaced not more than six (6) inches apart from center to center.



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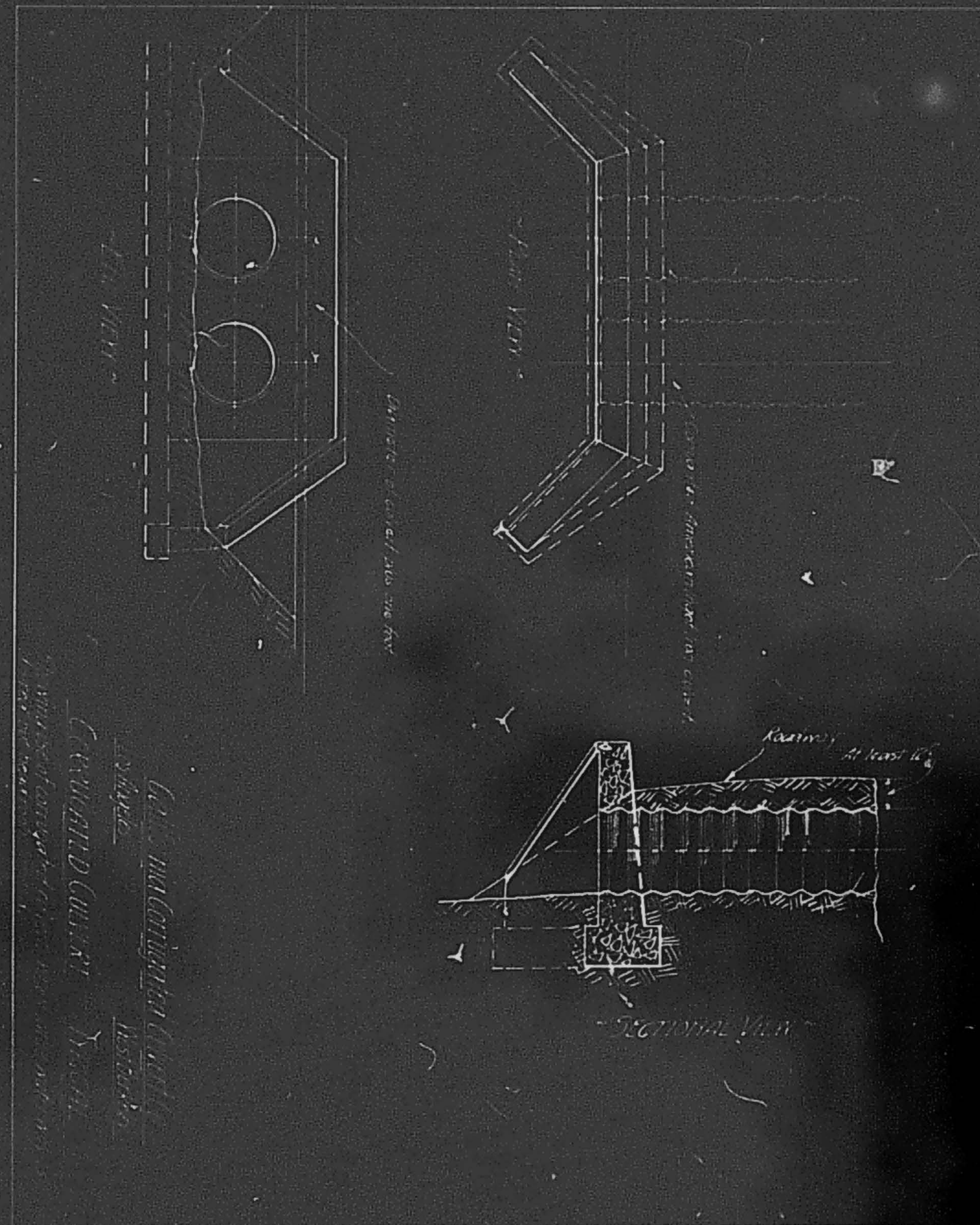
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#267



#267

O. H. FORCE, PRESIDENT
R. B. GAYLORD, V. PRESIDENT

R. C. FORCE, TREASURER
H. W. FORCE, Secy. & Mgr.

CALIFORNIA CORRUGATED CULVERT CO.

AMERICAN INGOT IRON PRODUCTS



CABLE ADDRESS
"CULVERTS SAN FRANCISCO"

FACTORIES
WEST BERKELEY
LOS ANGELES

409 LEROY ST.
TELEPHONES SUNSET EAST 217
HOME F 6850

LOS ANGELES

April 27, 1917.

Mr. T. P. Ellis, Ass't. Engineer,
Vulcon Land & Water Company,
924 - Eighth St.,
San Diego, Calif.

Dear Sir:

The writer took the matter of your oil surfacing up with the A. F. Gilmore Company, large oil producers here, and learned that they had been in correspondence with you since I last saw you. Presume you now have full particulars.

However, I have also obtained from the Los Angeles County Road Department a copy of their General Specifications, also oil surfacing specifications and same are enclosed herewith. They estimate that the cost of surfacing at present would amount to 3¢ per square yard. This is based on oil at \$1.60 per bbl., which figures 2¢ per sq. yd., and the cost of spreading is 1¢ per square yard.

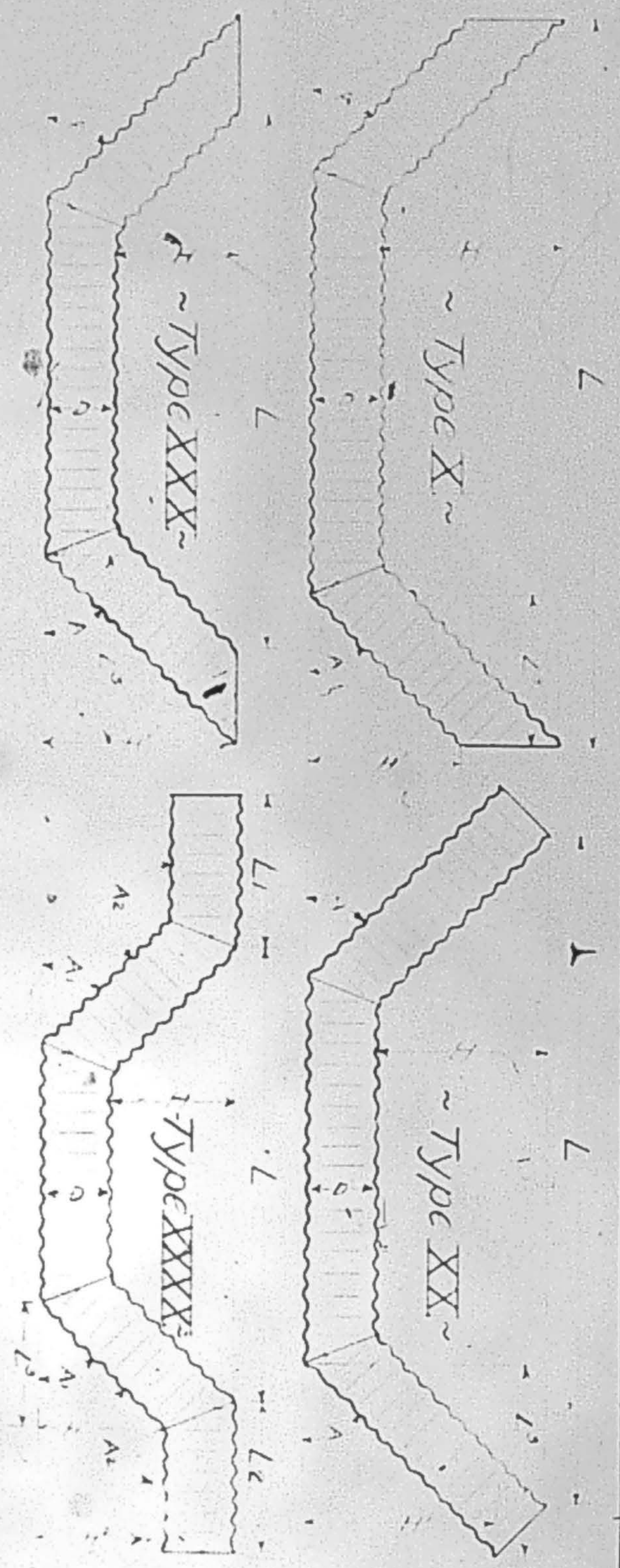
Trusting that the above will be of service to you and awaiting the pleasure of being of some further assistance to you, we remain,

Very truly yours,

CALIFORNIA CORRUGATED CULVERT COMPANY

BY *CW Webb*

CWW/c



~ Concrete
~ To be furnished
by purchaser ~

~ Type XXXX ~

~ WHEN ORDERING, state:

Type, Diameter of pipe 'D', Length 'L', and angle 'A'

(Under 45° unless some other angle necessary)

~ For Type XXXX, give also

Angle 'A', Angle 'A2', Length 'L', and Length 'L2'



California Corrugated Culvert Co.
Los Angeles -
~ INVERTED SIPHONS ~
~ STANDARD TYPES ~
Drawn and traced by S.B. ~ Oct 23rd 1911

#267

G. H. FORCE, PRESIDENT
R. B. GAYLORD, V. PRESIDENT

R. C. FORCE, TREASURER
H. W. FORCE, SECY. & MGR.

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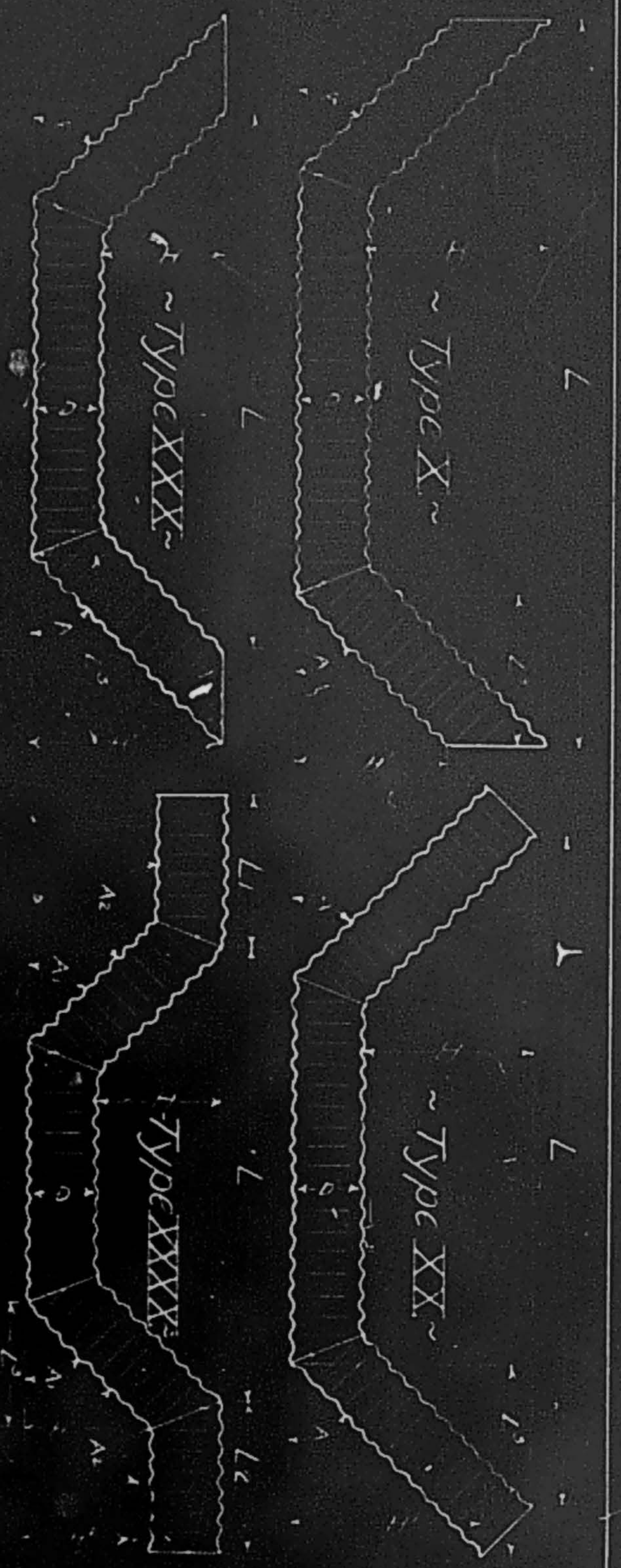
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CALIFORNIA CORRUGATED CULVERT COMPANY

BY *CW Webb*

CWW/c

~ Concrete
~ To be furnished
by purchaser ~



~ Type XXXXX ~

~ WHEN ORDERING, state:

Type, Diameter of pipe 'D', Length 'L', and angle 'A'

(Order 45° unless some other angle necessary)

~ For Type XXXX, give also

Angle 'A', Angle 'A2', Length 'L1', and Length 'L2'



California Corrugated Culvert Co.
Los Angeles
~ INVERTED SIPHONS ~
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Drawn and traced by S.B. ~ Oct 23rd 1911

CALIFORNIA CORRUGATED CULVERT CO.

CULVERTS
FLUMES
HEADGATES
AUTOMATIC GATES
IRRIGATION GATES
TANKS-TROUGHS
METAL RANCH SPECIALTIES



West Berkeley, Calif.
June 30, 1919

CABLE ADDRESS "CULVERTS"

FACTORIES
WEST BERKELEY
LOS ANGELES

Mr. T. H. King (Engineer)
San Dieguito Mutual Water Company,
Fletcher Building,
SAN DIEGO, CALIF.

Dear Sir:

The LYMAN IRRIGATION METER is a device for accurately measuring and recording water and, if you are desirous of knowing just how much water is delivered, the installation of this Meter on your weir will give you an absolute record which will be accurate and reliable.

Please read the enclosed pamphlet carefully as it will give you an idea of the construction of the Meter and will show you how simply and easily it works.

It is designed for use on either Cipolletti or rectangular weirs of any size. In ordering it is necessary to state whether the weir will be Cipolletti or rectangular, also the length of the weir and the maximum head, in order that we may equip the Meter with the proper size counters.

The price of this Meter is \$19.50 f.o.b. West Berkeley and shipment can be readily forwarded to you by parcel post immediately, so you will have the Meter within a few days after you send us your order.

May we have the pleasure of hearing from you favorably on the enclosed postal?

Very truly yours,

CALIFORNIA CORRUGATED CULVERT CO.

W. R. Hodgkin
Secretary.

CRH/W

P.S. Undoubtedly you will find the Government Bulletin #813, which we are sending you, of considerable interest. It deals with the construction and use of farm weirs and gives considerable valuable information.

Ed Fletcher Papers

1870-1955

MSS.81

Box: 3 Folder: 21

**General Correspondence -
California Corrugated Culvert Co.**



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