

















Appendix D

Southern California Edison, Pump Performance Test Records from 1984, 1988, and 1990.

February 25, 2020

JOSHUA MEMORIAL PARK
808 EAST LANCASTER BLVD.
LANCASTER, CA 93535

HYDRAULIC TEST RESULTS:

Location: 808 E LANCASTER BLVD

Cust #: Serv. Acct. #:

Meter: 732-3114 Pump Ref.#: 2871

In accordance with your request, an energy efficiency test was performed on your turbine well pump pump on January 26, 1984. If you have any questions regarding the results which follow, please contact UNKNOWN USER at .

Equipment

HP: 40

Pump: PEERL

No: 86849

Motor: WH

No: 1010V906

Results	<u>Test 1</u>	<u>Test 2</u>
Discharge Pressure, PSI	58.5	76.9
Standing Water Level, Feet	206.5	206.5
Drawdown, Feet	29.4	26.9
Discharge Head, Feet	135.1	177.6
Pumping Water Level, Feet	235.9	233.4
Total Head, Feet	371	411
Capacity, GPM	216	182
GPM per Foot Drawdown	7.3	6.8
Acre Feet Pumped in 24 Hours	.955	.804
kW Input to Motor	31.5	30.8
HP Input to Motor	42.2	41.3
Motor Load (%)	94	91.9
kWh per Acre Foot	792	919
Overall Plant Efficiency (%)	47.9	45.7

RUSS JOHNSON
MANAGER
Hydraulic Services

February 25, 2020

JOSHUA MEMORIAL PARK
808 EAST LANCASTER BLVD.
LANCASTER, CA 93535

PUMPING COST ANALYSIS:

Location: 808 E LANCASTER BLVD

CSS Cust #:

CRM Cust #:

Pump Ref.#: 2871

CSS Serv. Acct.:

CRM Serv. Acct.:

Meter: 732-3114

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on January 26, 1984, billing history for the past 12 months, and your current rate of GS-2.

Assuming that water requirements will be the same as for the past year, and all operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test, it is estimated that:

1. Overall plant efficiency can be improved from 47.9% to .0%.
2. This can save you up to 0 kWh and \$0.00 annually.

	<u>Existing</u>	Plant Efficiency <u>Improved</u>	<u>Savings</u>
Total kWh	85,632	85,632	
kW Input	31.50	31.50	.00
kWh per Acre Foot	792	792	
Acre Feet per Year	108.1		
Average Cost per kWh	\$0.00		
Average Cost per Acre Foot	\$0.00	\$0.00	\$0.00
Overall Plant Efficiency (%)	47.9		
<hr/>			
Total Annual Cost	\$0.00	\$0.00	\$0.00

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum energy efficiency will be continued. If you have any questions regarding this report, please contact UNKNOWN USER at .

RUSS JOHNSON
MANAGER
Hydraulic Services

February 25, 2020

JOSHUA MEMORIAL PARK
808 EAST LANCASTER BLVD.
LANCASTER, CA 93535

HYDRAULIC TEST RESULTS:

Location: 808 E LANCASTER BLVD

Cust #: Serv. Acct. #:

Meter: 732-3114 Pump Ref.#: 2871

In accordance with your request, an energy efficiency test was performed on your turbine well pump pump on April 14, 1988. If you have any questions regarding the results which follow, please contact UNKNOWN USER at .

Equipment

HP: 40

Pump: PEERL

No: 86849

Motor: WH

No: 1010V906

Results	<u>Test 1</u>	<u>Test 2</u>
Discharge Pressure, PSI	32.3	52.2
Standing Water Level, Feet	211.7	211.7
Drawdown, Feet	39.5	38
Discharge Head, Feet	74.6	120.6
Pumping Water Level, Feet	251.2	249.7
Total Head, Feet	325.8	370.3
Capacity, GPM	293	249
GPM per Foot Drawdown	7.4	6.6
Acre Feet Pumped in 24 Hours	1.295	1.101
kW Input to Motor	35.4	36
HP Input to Motor	47.5	48.3
Motor Load (%)	105.6	107.4
kWh per Acre Foot	656	785
Overall Plant Efficiency (%)	50.8	48.2

RUSS JOHNSON
MANAGER
Hydraulic Services

February 25, 2020

JOSHUA MEMORIAL PARK
808 EAST LANCASTER BLVD.
LANCASTER, CA 93535

PUMPING COST ANALYSIS:

Location: 808 E LANCASTER BLVD

CSS Cust #:

CRM Cust #:

Pump Ref.#: 2871

CSS Serv. Acct.:

CRM Serv. Acct.:

Meter: 732-3114

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on April 14, 1988, billing history for the past 12 months, and your current rate of GS-2.

Assuming that water requirements will be the same as for the past year, and all operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test, it is estimated that:

1. Overall plant efficiency can be improved from 50.8% to .0%.
2. This can save you up to 0 kWh and \$0.00 annually.

	<u>Existing</u>	Plant Efficiency <u>Improved</u>	<u>Savings</u>
Total kWh	109,884	109,884	
kW Input	35.40	35.40	.00
kWh per Acre Foot	656	656	
Acre Feet per Year	167.5		
Average Cost per kWh	\$0.00		
Average Cost per Acre Foot	\$0.00	\$0.00	\$0.00
Overall Plant Efficiency (%)	50.8		
<hr/>			
Total Annual Cost	\$0.00	\$0.00	\$0.00

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum energy efficiency will be continued. If you have any questions regarding this report, please contact UNKNOWN USER at .

RUSS JOHNSON
MANAGER
Hydraulic Services

February 25, 2020

JOSHUA MEMORIAL PARK
808 EAST LANCASTER BLVD.
LANCASTER, CA 93535

HYDRAULIC TEST RESULTS:

Location: 808 E LANCASTER BLVD
Cust #: Serv. Acct. #:
Meter: 732-3114 Pump Ref. #: 2871

In accordance with your request, an energy efficiency test was performed on your turbine well pump pump on October 17, 1990. If you have any questions regarding the results which follow, please contact GARY PARDUE at .

Equipment

HP: 40

Pump: PEERL No: 86849
Motor: WH No: 1010V906

Results	Test 1	Test 2	Test 3
Discharge Pressure, PSI	54.5	66.7	82.9
Standing Water Level, Feet	219	219	219
Drawdown, Feet	39.4	38.6	36.4
Discharge Head, Feet	125.9	154.1	191.5
Pumping Water Level, Feet	258.4	257.6	255.4
Total Head, Feet	384.3	411.7	446.9
Capacity, GPM	234	210	187
GPM per Foot Drawdown	5.9	5.4	5.1
Acre Feet Pumped in 24 Hours	1.033	.930	.826
kW Input to Motor	34.6	34.6	34.4
HP Input to Motor	46.4	46.4	46.1
Motor Load (%)	103.2	103.2	102.6
kWh per Acre Foot	804	893	999
Overall Plant Efficiency (%)	48.9	47.1	45.7

The above test results indicate various operating conditions of this pump.

RUSS JOHNSON
MANAGER
Hydraulic Services

February 25, 2020

JOSHUA MEMORIAL PARK
808 EAST LANCASTER BLVD.
LANCASTER, CA 93535

PUMPING COST ANALYSIS:

Location: 808 E LANCASTER BLVD

CSS Cust #:

CRM Cust #:

Pump Ref.#: 2871

CSS Serv. Acct.:

CRM Serv. Acct.:

Meter: 732-3114

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on October 17, 1990, billing history for the past 12 months, and your current rate of GS-2.

Assuming that water requirements will be the same as for the past year, and all operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test, it is estimated that:

1. Overall plant efficiency can be improved from 48.9% to 60.0%.
2. This can save you up to 17,164 kWh and \$1,920.10 annually.
3. These kWh savings translate to a 7.5-ton decrease in CO₂ emissions.

	Plant Efficiency		
	<u>Existing</u>	<u>Improved</u>	<u>Savings</u>
Total kWh	92,616	75,452	17,164
kW Input	34.60	28.19	6.41
kWh per Acre Foot	804	655	149
Acre Feet per Year	115.2		
Average Cost per kWh	\$0.11		
Average Cost per Acre Foot	\$89.95	\$73.28	\$16.67
Overall Plant Efficiency (%)	48.9	60	
<hr/>			
Total Annual Cost	\$10,360.95	\$8,440.86	\$1,920.10

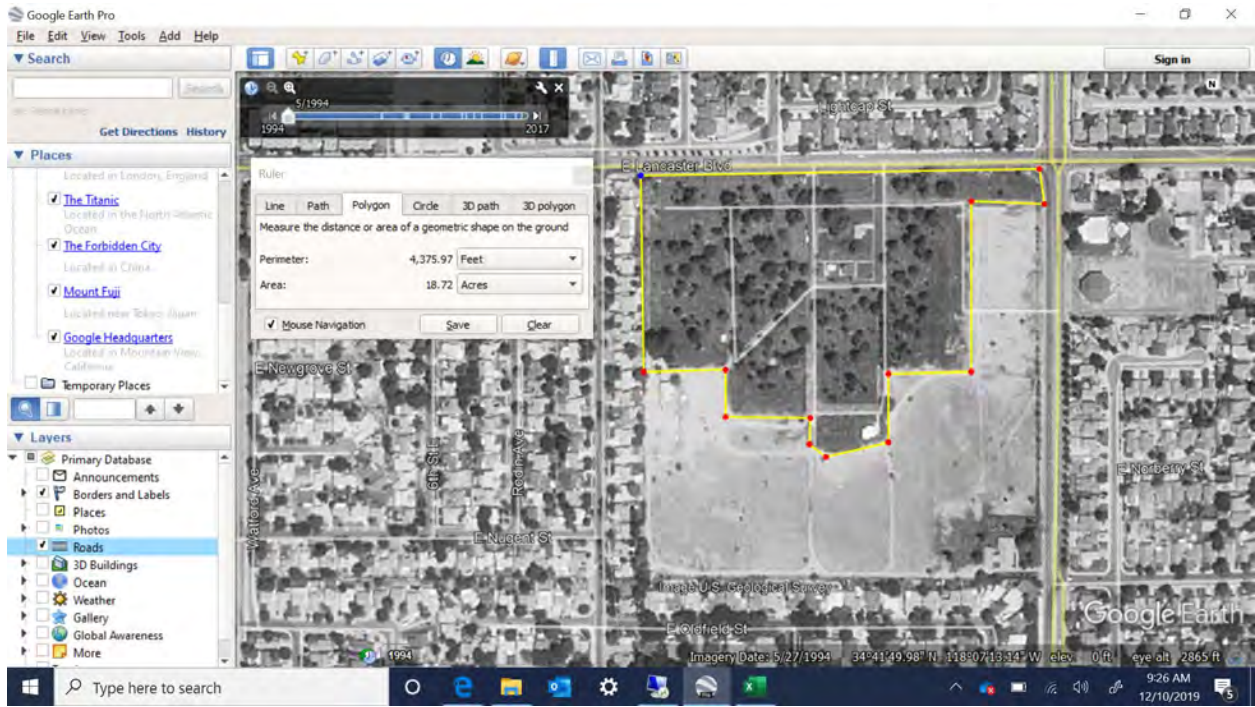
It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum energy efficiency will be continued. If you have any questions regarding this report, please contact GARY PARDUE at .

RUSS JOHNSON
MANAGER
Hydraulic Services

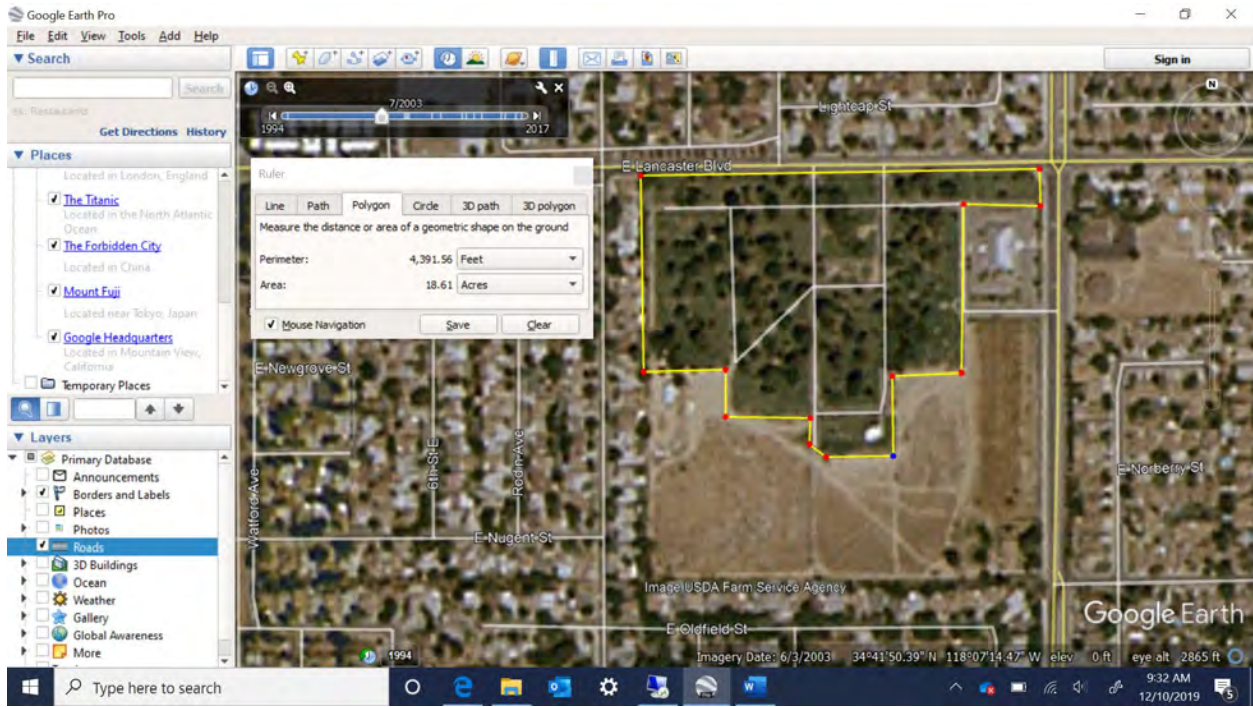
Appendix E
SCI Irrigated Area Analysis Google Earth Historical Satellite Imagery

Date	Acres	Notes
1994, May 27	18.72	Mortuary building does not exist.
2003, July 3	18.61	Mortuary building exists (built in 1997).
2003, August 13	21.40	Area south of mortuary building is irrigated.
2003, September 12	21.40	Area south of mortuary building is irrigated.
2005, November 15	18.27	
2004, December 31	18.32	
2006, January 8	18.32	
2006, March 15	18.32	
2008, January 8	18.32	
2009, May 24	18.32	
2011, July 15	18.32	
2011, December 3	18.32	
2012, August 25	18.32	
2013, May 24	18.32	
2015, April 10	18.69	
2015, September 4	18.69	Small, irrigated area south of mortuary building.
2016, October 4	18.69	Small, irrigated area south of mortuary building.
2017, April 28	18.69	Small, irrigated area south of mortuary building.
Mean	18.78	
Standard Deviation	0.94	
Minimum	18.27	
Maximum	21.40	

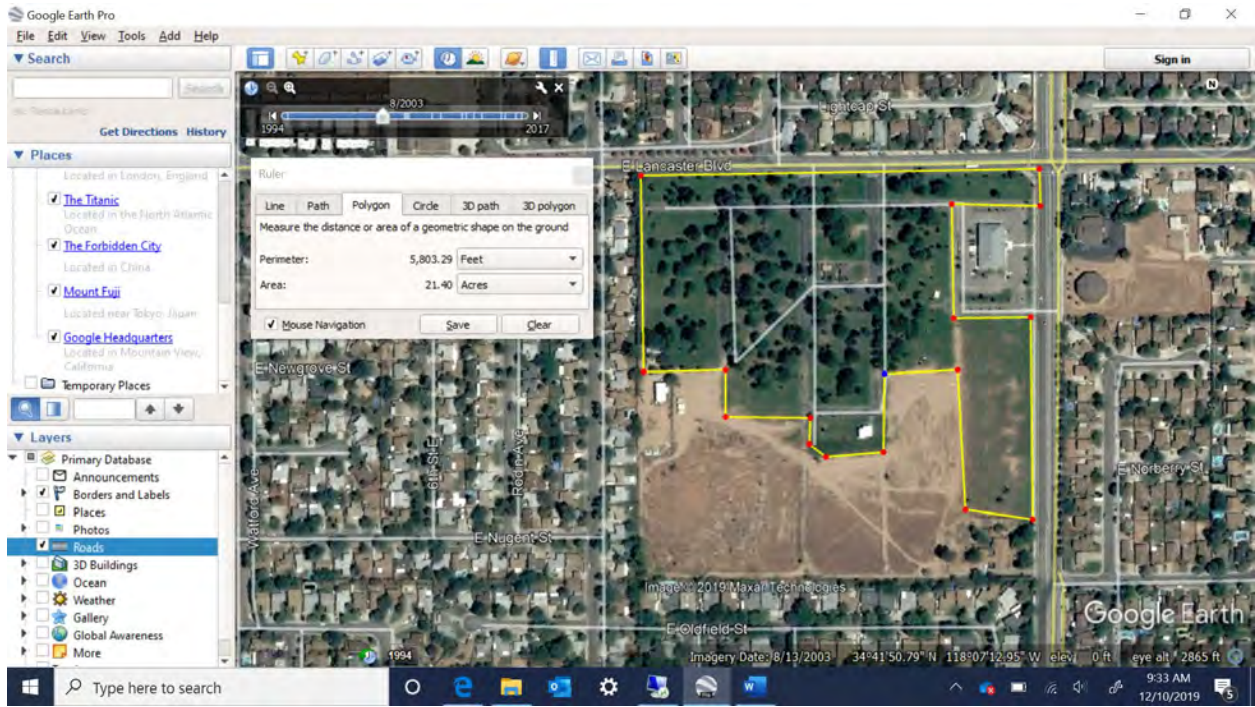
1994, May 27



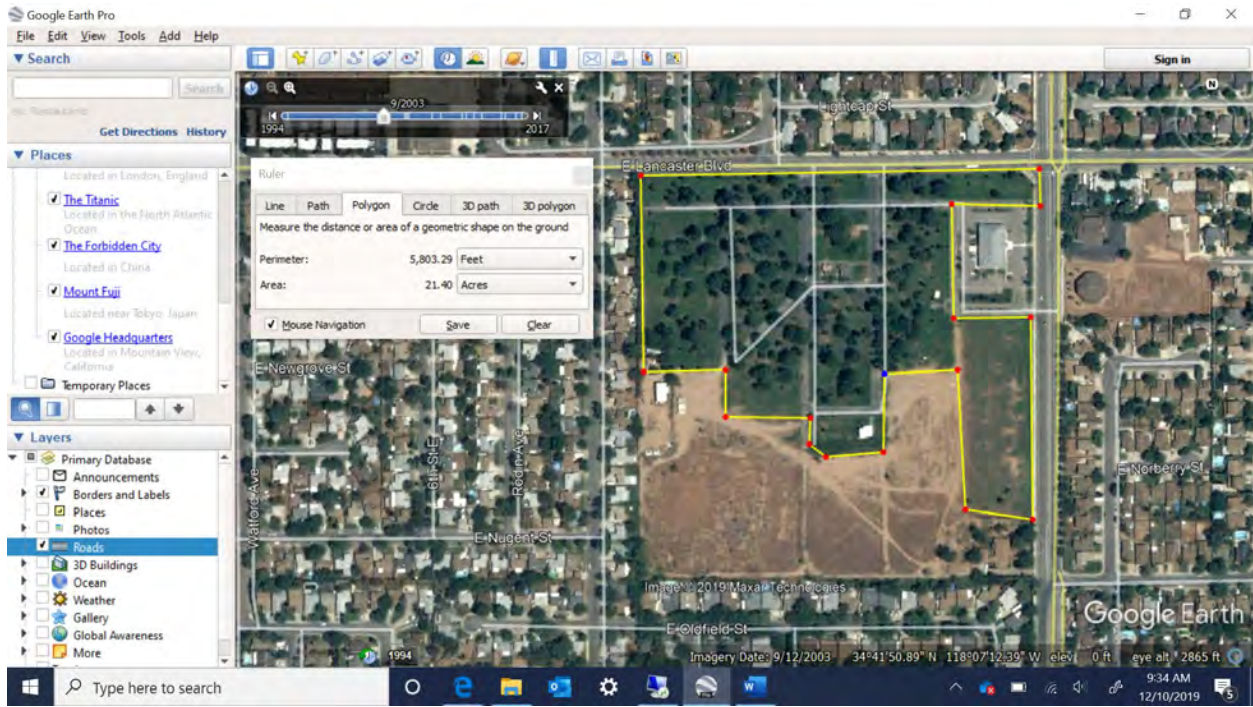
2003, June 3



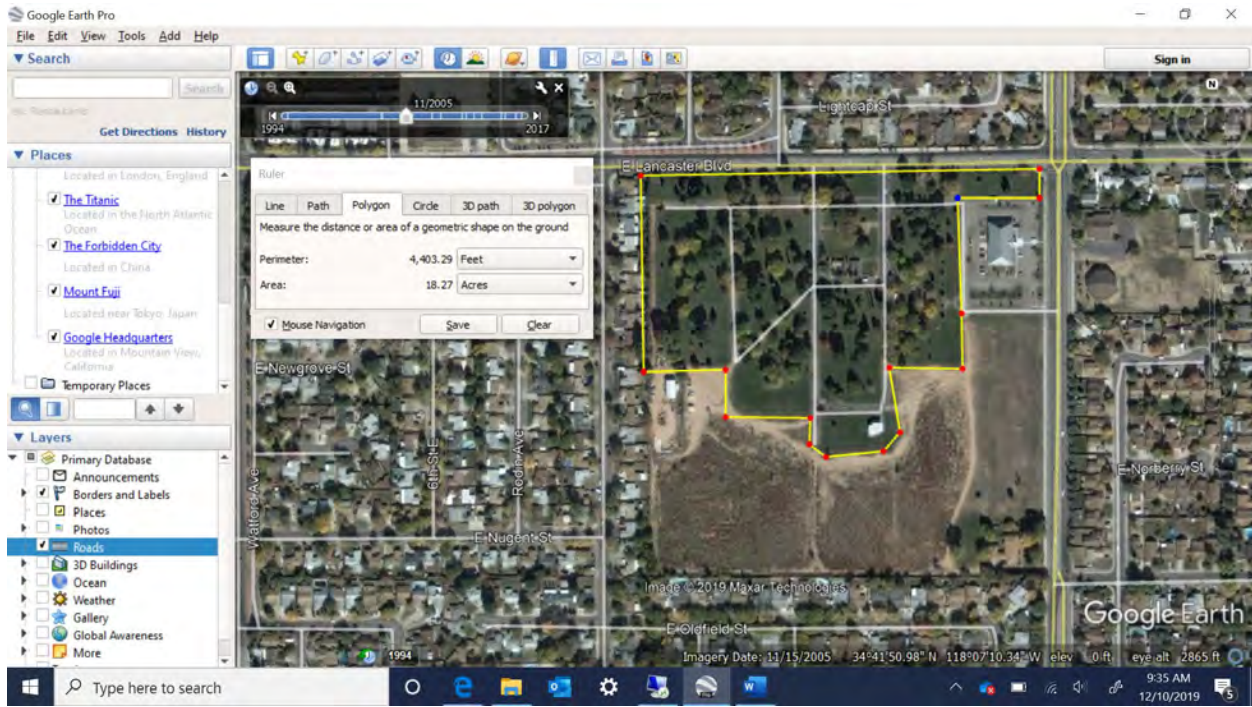
2003, August 13



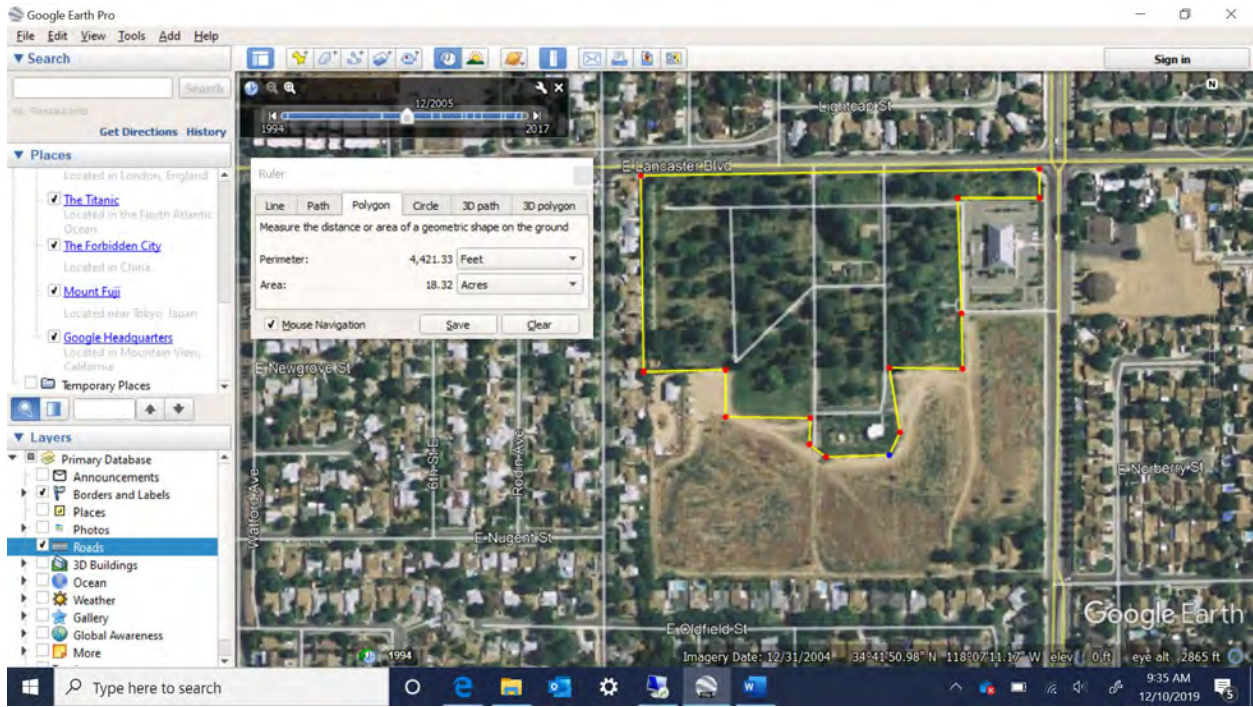
2003, September 12



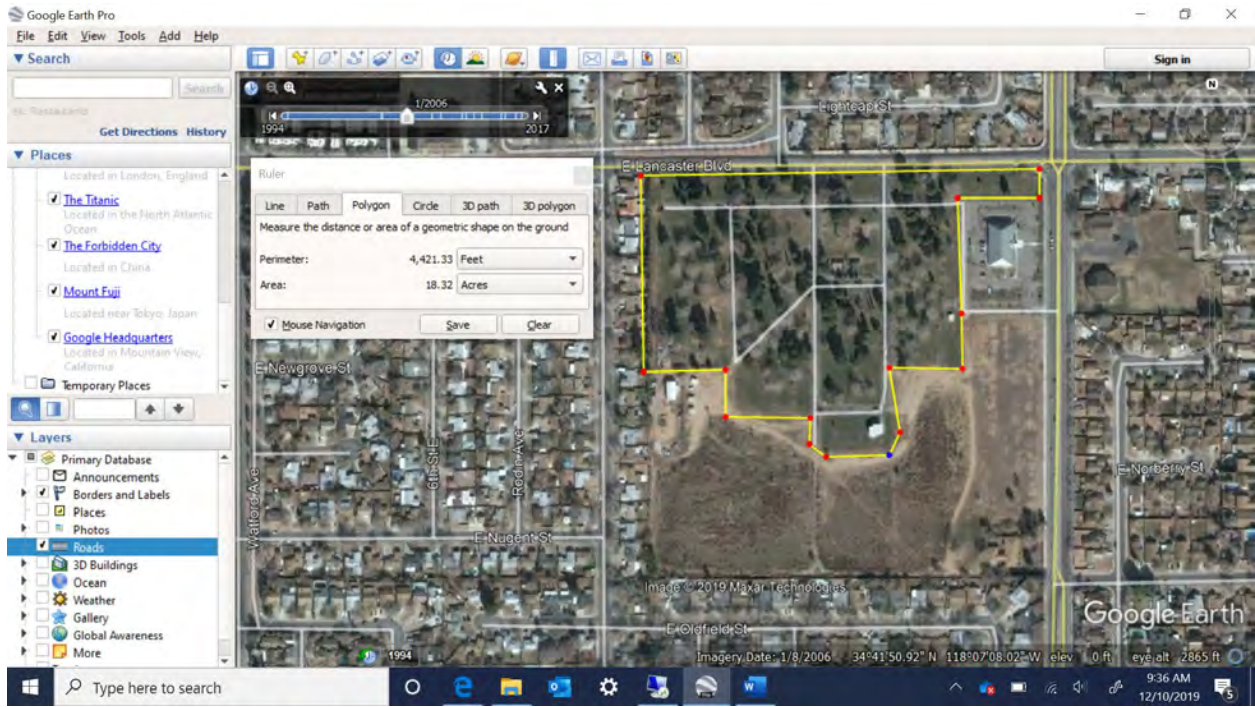
2005, November 15



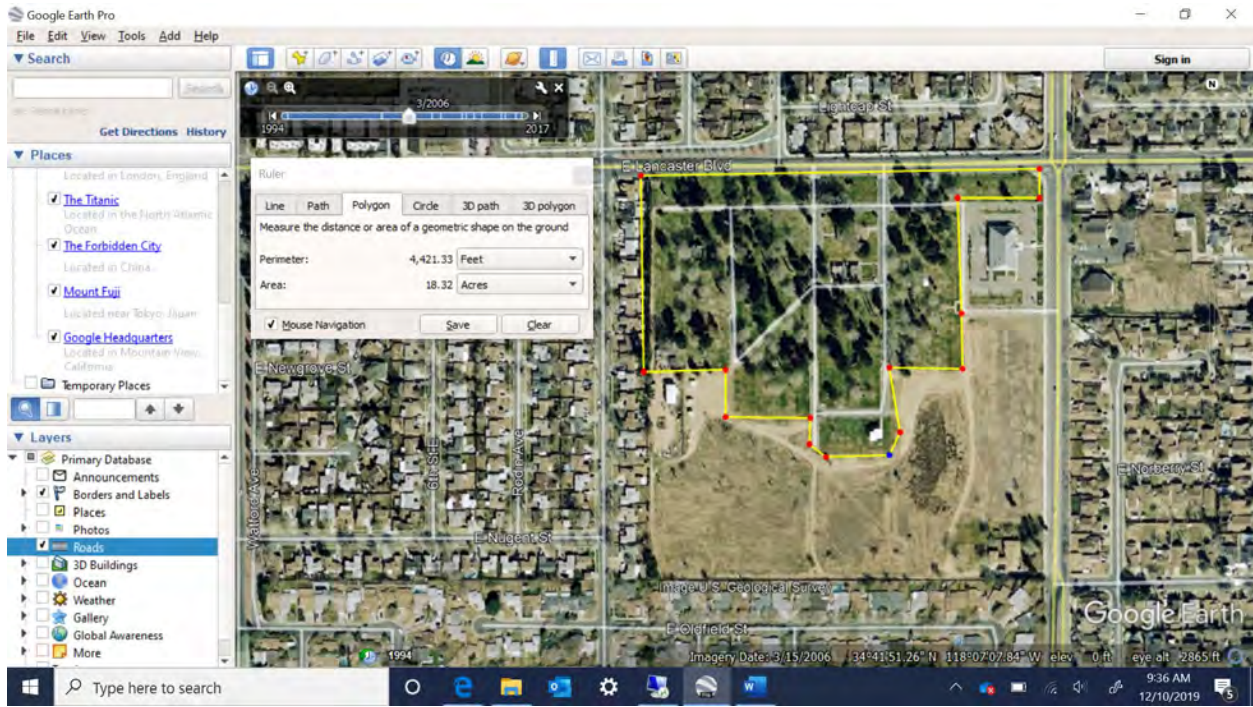
2004, December 31



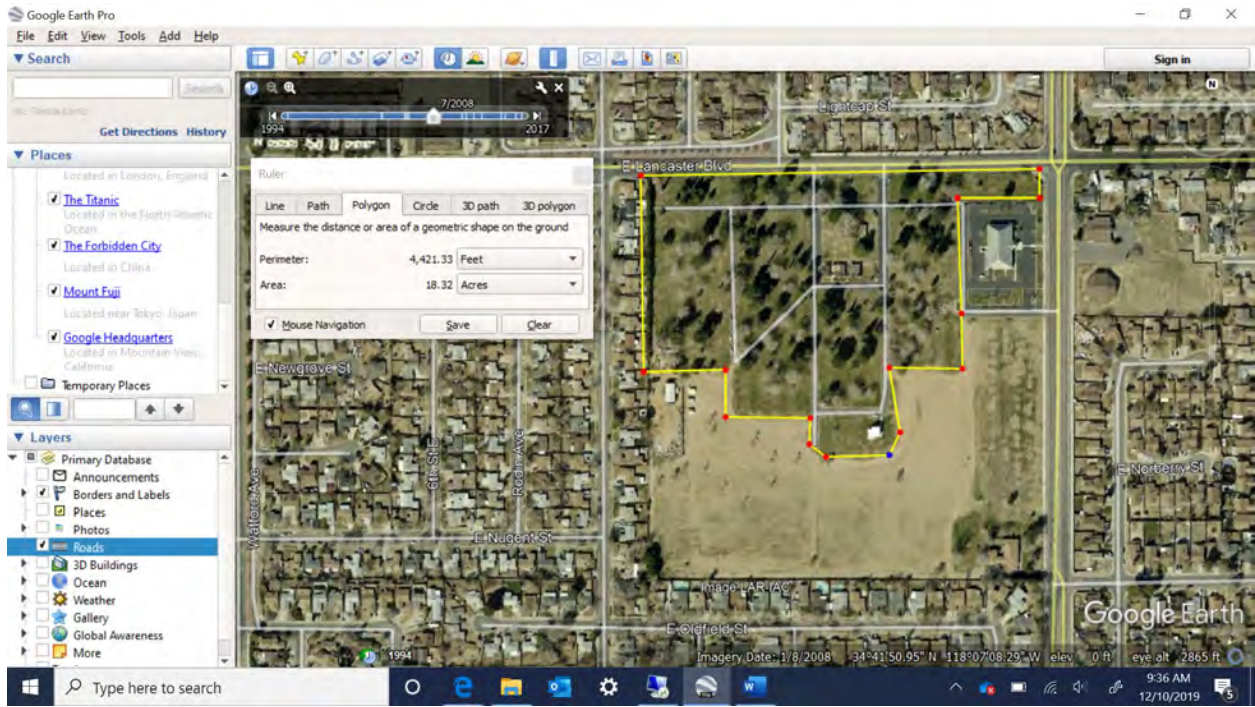
2006, January 8



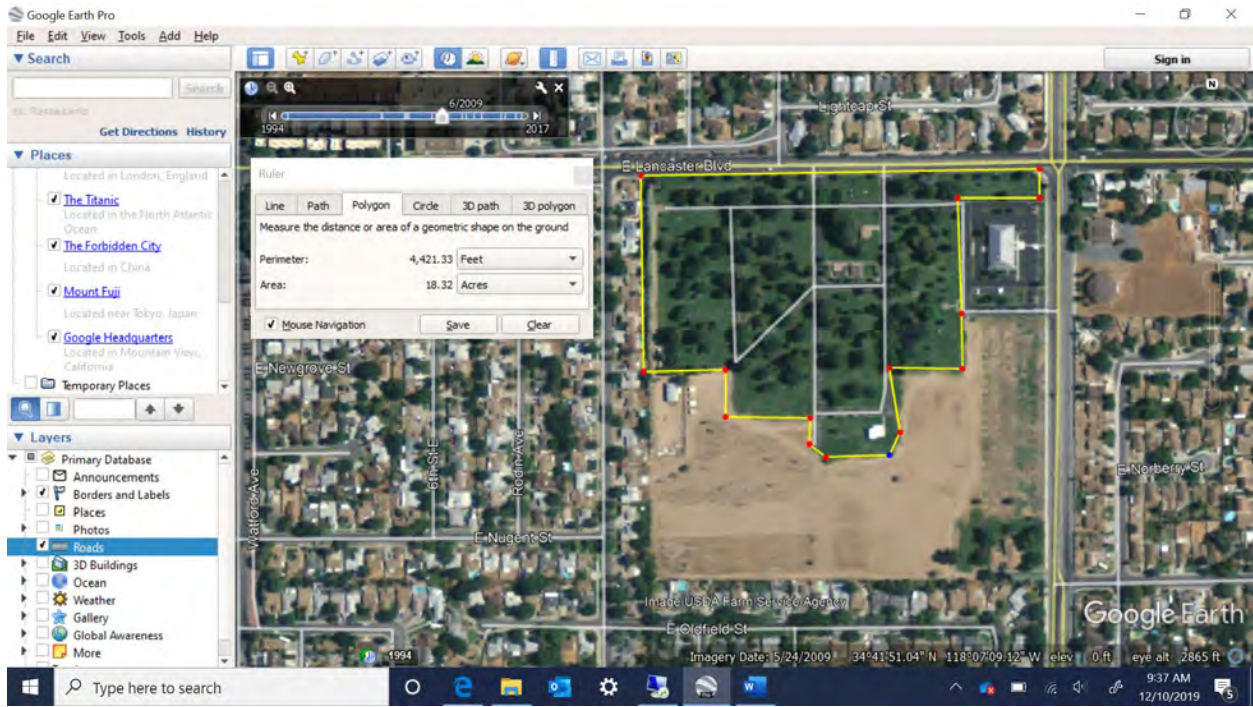
2006, March 15



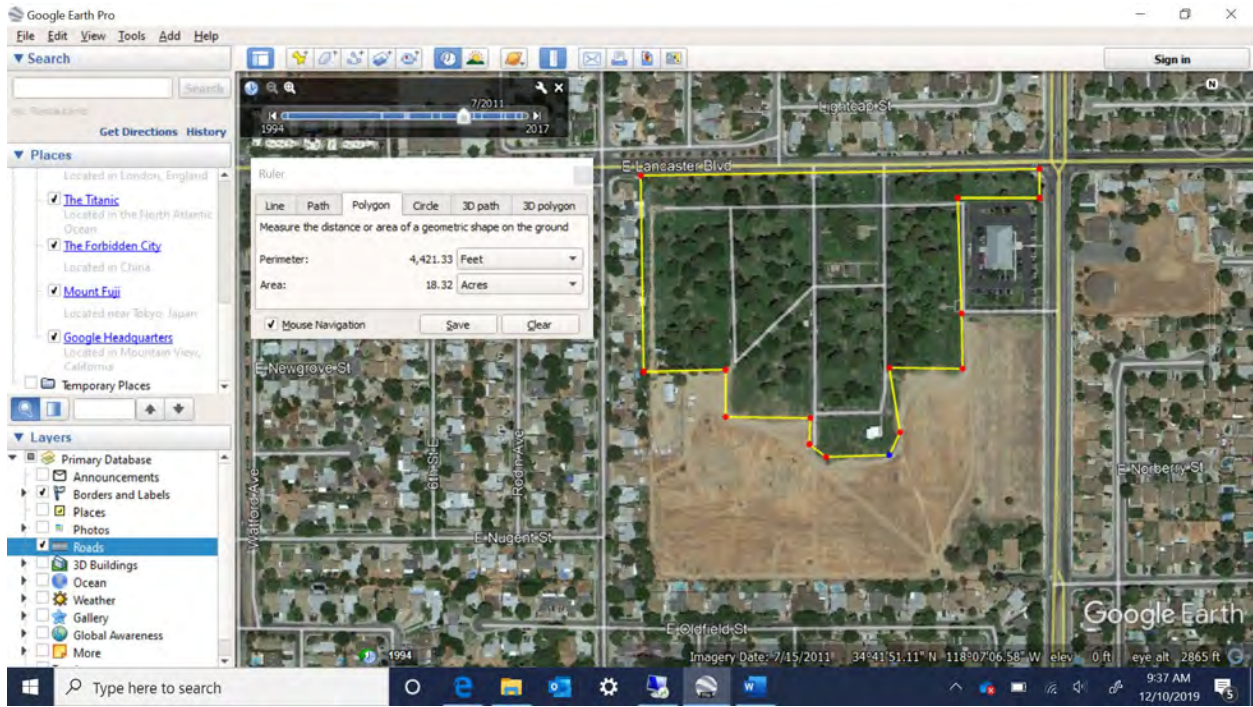
2008, January 8



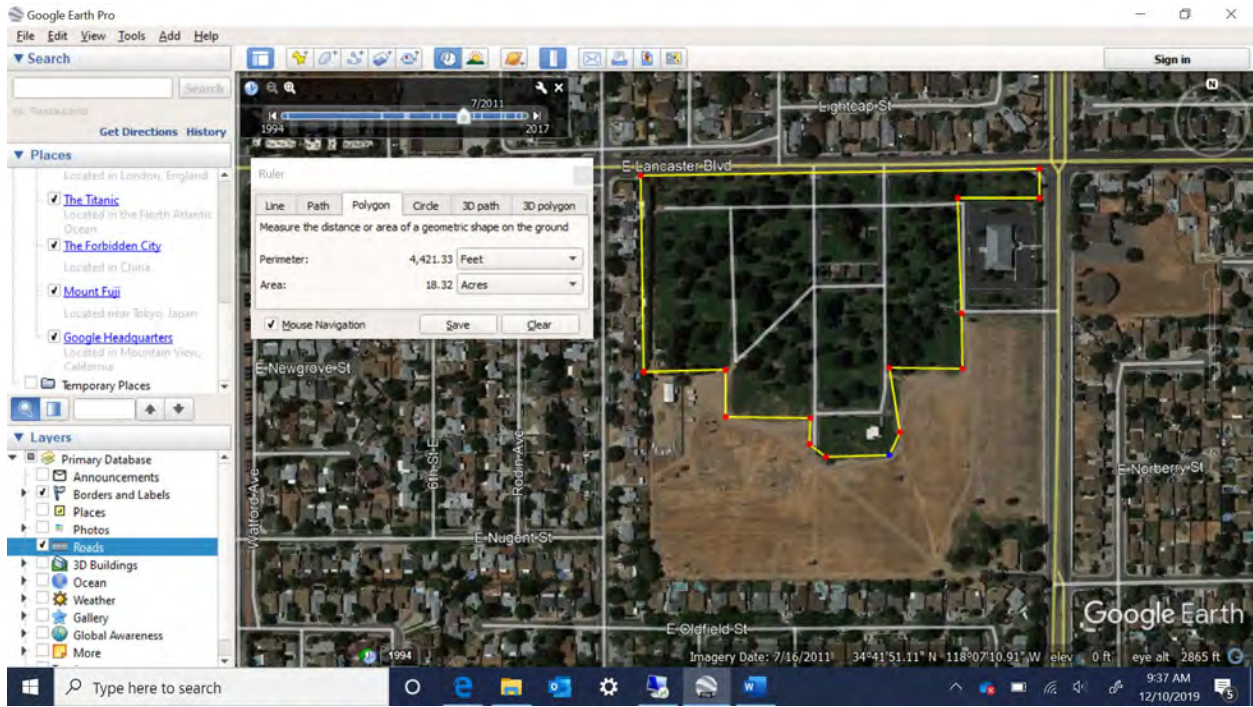
2009, May 24



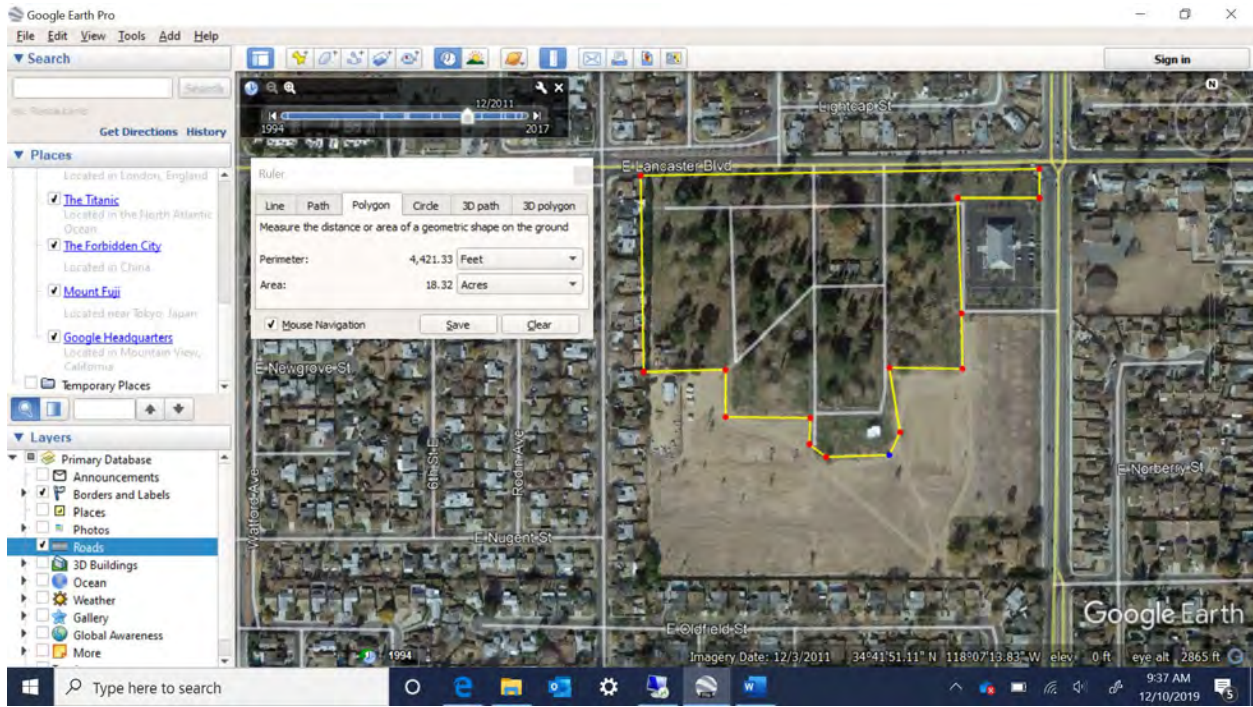
2011, July 15



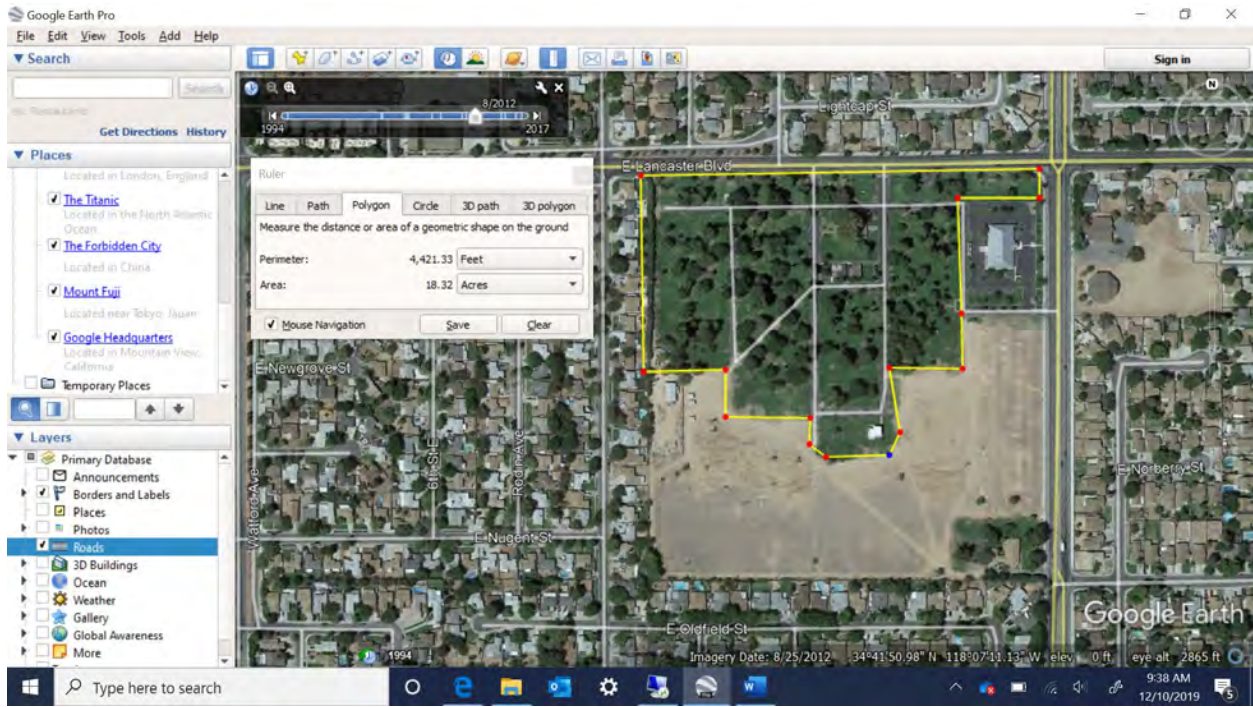
2011, July 16



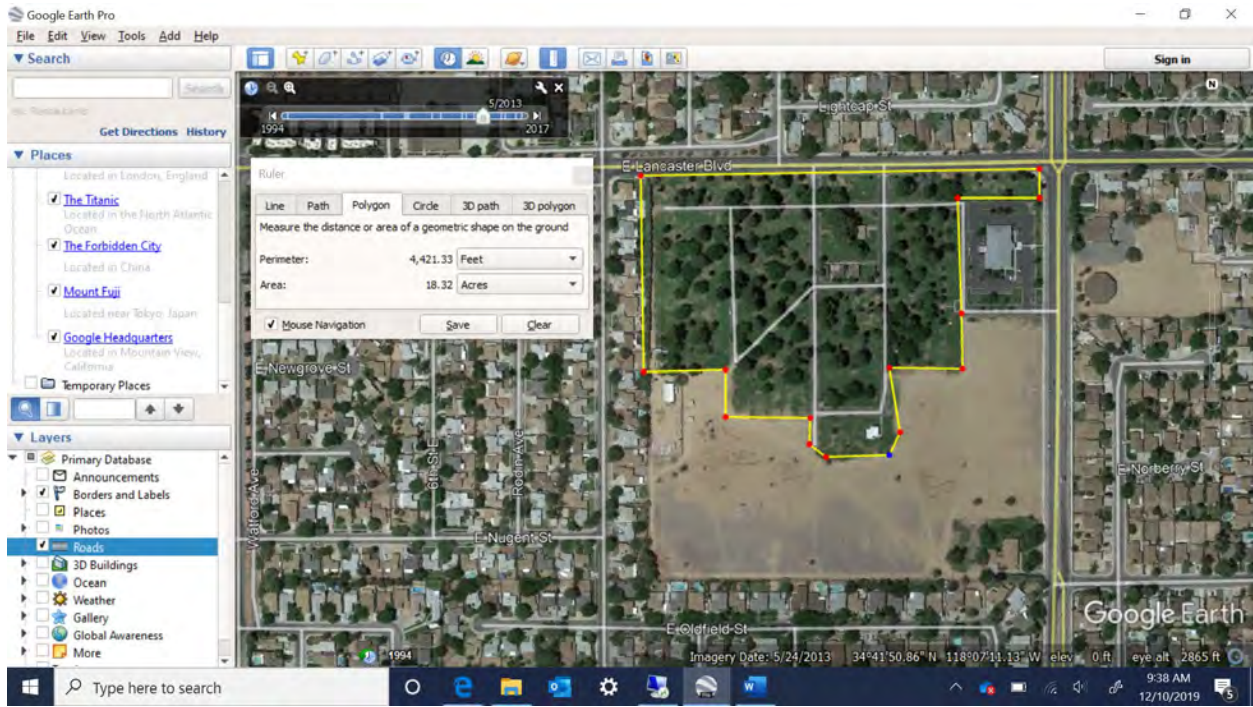
2011, December 3



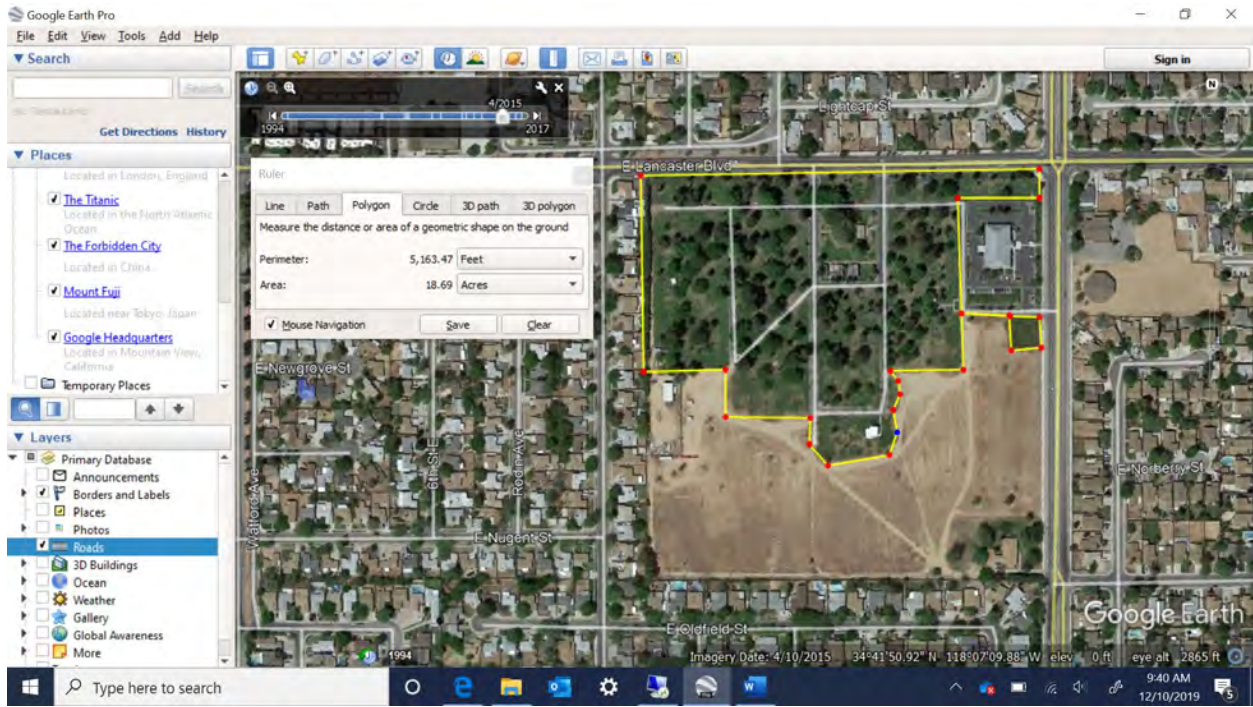
2012, August 25



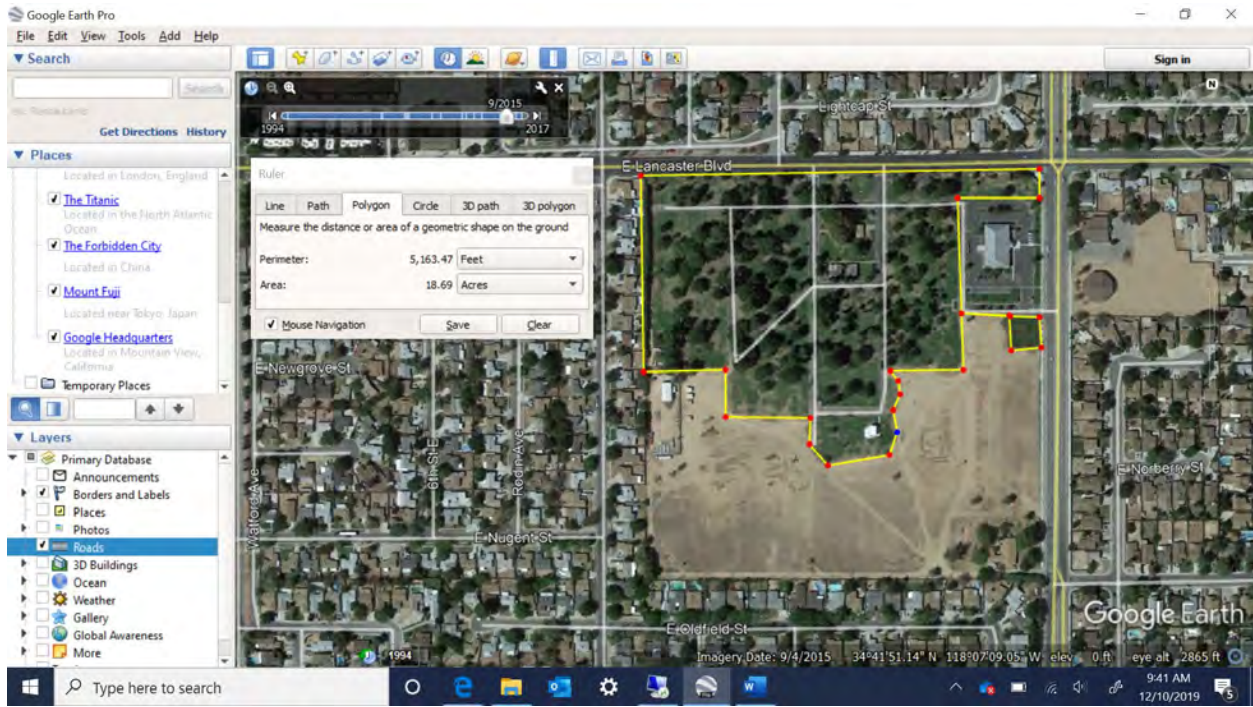
2013, May 24



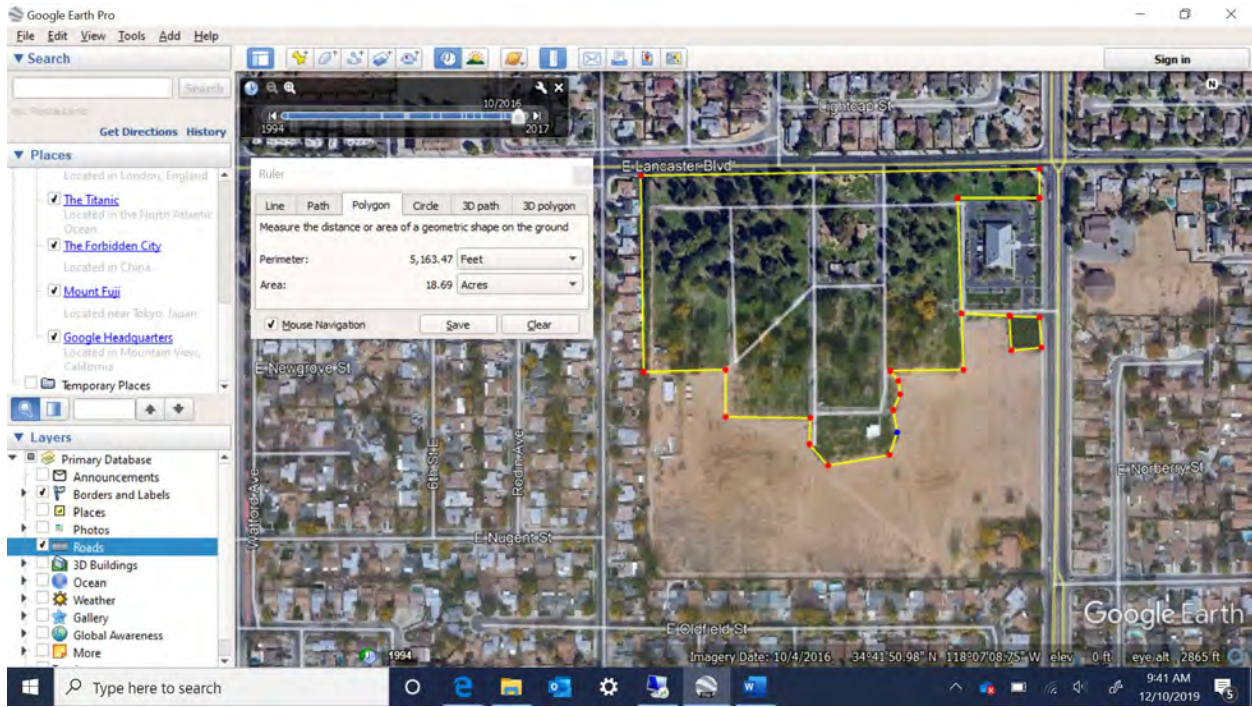
2015, April 10



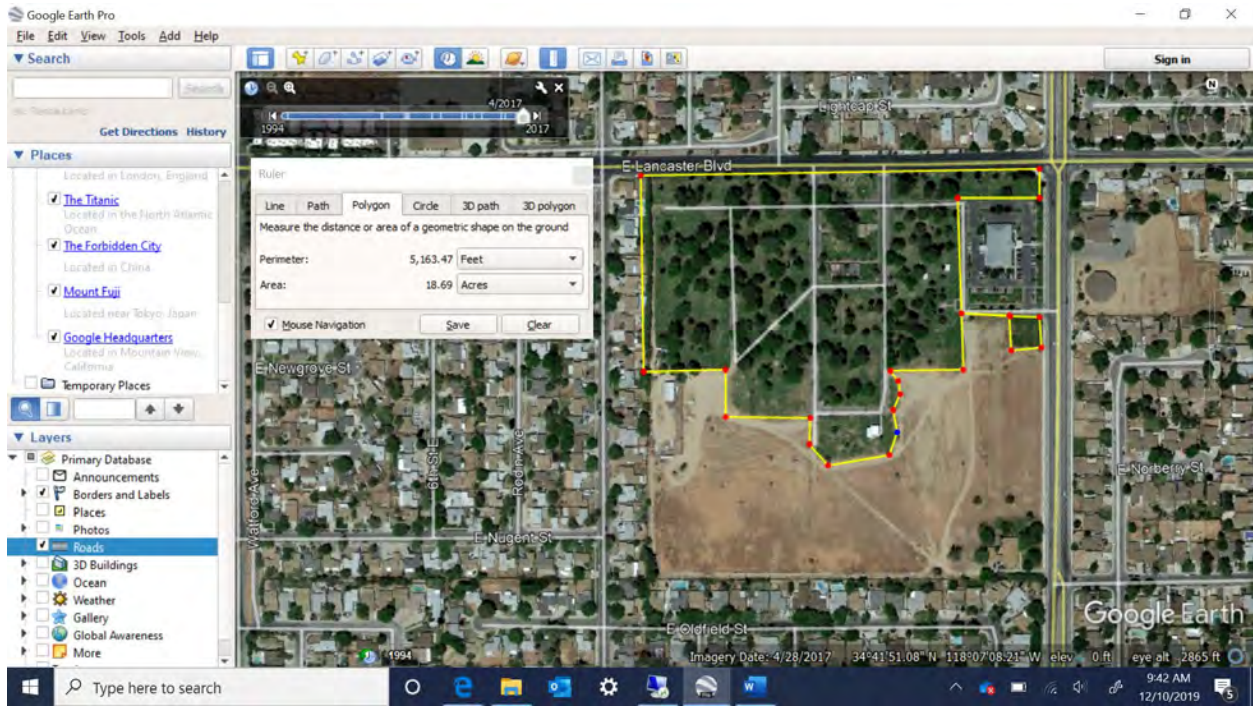
2015, September 4



2016, October 4



2017, April 28

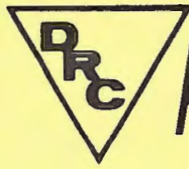


Appendix F
DRC Pump Systems Invoice Records 1988, 1993, and 2018

INVOICE

DEL R. COMBS, INC.

No 11548



Pump Systems

PEERLESS PUMP SALES & SERVICE

P.O. BOX 1029

LANCASTER, CALIFORNIA 93534

(805) 942-1173

DATE 2/25/88

Joshua Memorial Park
808 E. Lancaster Blvd.
Lancaster, Ca. 93535

942-8125

DESCRIPTION	TOTAL
RE: Our w/o #00619 & additional work.	
<u>ITEM #1.</u> Labor pull complete pump 250' of 6" x 2 x 1-3/16 x 10' lengths of column tube & shaft. Plus 12-stage 10" bowls w/ ft. valve. 7½hrs. @ 70.00	\$ 525.00
<u>ITEM #2 OUTSIDE LABOR BY WELENCO - T.V. well</u>	\$ 710.00
<u>ITEM #3 EXTRA ITEM</u> Checked depth of well 358', water level @ 150' also loaded motor & hauled to Bowen Electric, Inc. for clean up & retreat. 1½hrs. @ 70.00	\$ 105.00
<u>ITEM #4 EXTRA ITEM</u> Installed 5' liner in well @ 138'.	\$1640.00
<u>ITEM #5</u> Shop Labor disassy. 250' of inner col., reface tubes, check bearing, steam clean tubes, & clean & check shaft's & reassemble.	\$1050.00
<u>ITEM #6 EXTRA ITEM OUTSIDE LABOR BY BOWEN ELECTRIC</u> on 40hp motor clean up & bearing exchange	\$ 220.00
<u>ITEM #7</u> Labor to reinstall pump 250' plus 20' of extension, plus rebuilt 13-stage of bowls. 3men 7hrs. @ 80.00	\$ 560.00
<u>ITEM #8 EXTRA LABOR</u> Received call- pump was pumpin up 90 psi into pressure tank but no water in field. Service labor found screen in sand trap plugged with sand. Removed & cleaned . 2 men 1½hrs. @ 70.00	\$ 105.00
<u>ITEM #8 EXTRA LABOR</u> Returned & found check valve not holding water filled w/ sand, gasket bad, also removed man hole cover & had sand cleaned out of pressure tank. Made new rubber flapper gasket & reassy. check valve & started pump. 1man 5½hrs. @ 40.00	\$ 220.00
con't.	

INVOICE

No. 11548 00.2

DEL R. COMBS, INC.



Pump Systems

PEERLESS PUMP SALES & SERVICE

P.O. BOX 1029

LANCASTER, CALIFORNIA 93534

(805) 942-1173

DATE 2/25/88

Joshua Memorial Park

142 - 200

DESCRIPTION	TOTAL
con't.	
<u>ITEM #10 EXTRA LABOR</u>	
Received 3rd call- Check valve still wasn't holding water. returned & checked out complete system & found OK. Also reset adjustment on pump & started. Was running 4 lines @ 70#psi.	
2hrs. @ 40.00	\$ 80.00
TOTAL DRC LABOR	\$4285.00
TOTAL OUTSIDE LABOR	\$ 930.00
<u>MATERIAL</u>	
40' 8 2" x 5' oil tubes @ 14.40 ea.	\$ 115.20
2- 2 x 1-3/16" line shaft bearings @ 14.00 ea.	\$ 28.00
13- Stage 9" LA Peerless bowls	\$2500.00
1- 6" surge valve (Lakewood)	
1- 6" nipple TOE w/ 6" galv cone strainer & 1- 6" x 12" nipple TBE	\$ 280.00
1- 7313 thrust motor bearing	\$ 132.80
1- 6212 guide motor bearing	\$ 38.30
1- used 6" std. x 10' suction	\$ 75.00
20' of new extension 6 x 2 x 1-3/16	\$ 400.00
TOTAL MATERIAL	\$3569.30
FREIGHT	\$ 80.00
6.5% SALES TAX (3649.30)	\$ 237.20
TOTAL LABOR FORWARD	\$5215.00
GRAND TOTAL	\$9101.50
LESS DOWN PMT	\$2500.00-
BALANCE DUE	\$6601.50

Thank You!!!

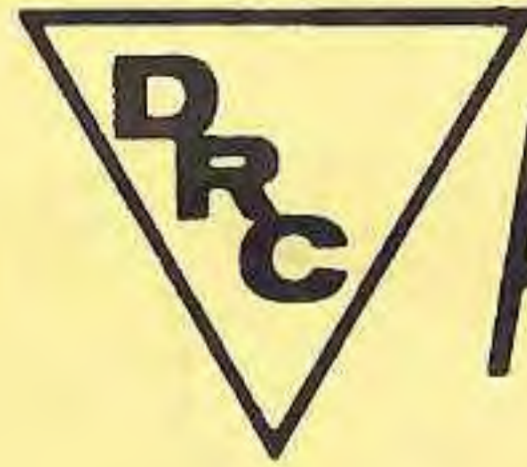
Rick R-AL-FERRY
JOB RECORD

Name Job		DATE	
Joshua Memorial Park		2-22-88	
Location 10 th & Lancaster Bl East			
Pump Make		No.	
Peerless			
I. D. Well		Total Depth	
12" (270' + Bowls)		358'	
6" Lgth. Column		Size Tubing	
20-10's x 6" 3-20' 10' head		2" x 1 3/4"	
Size Shaft		20-10' or 20' Lgths.	
1 3/4"		3-20's 10' head	
No. Threads	Column	Tubing	R () L () Shaft
Size Bowls	Stages	Suction	Disc.
10"	13		
Motor HP	Make	RPM	Horiz. VHS VSS
40			
Misc. Anti surge valve at bottom of Bowls			
EMPELLER # T84391			

Additional Information on Back

INVOICE
DEL R. COMBS, INC.

№ 13901



Pump Systems

SALES & SERVICE

STATE CONT. LIC. NO. 329759

3604 EAST AVENUE I

LANCASTER, CALIFORNIA 93535

FAX (805) 946-1559
(805) 946-9444

DATE 8/26/93

JOSHUA MEMORIAL PARK
808 E. LANCASTER BLVD.
LANCASTER, CA. 93534

942-8125

DESCRIPTION		TOTAL
Our WORK ORDER #00812		
8/23 3-men & rig, drove to well site & set up pump rig. Remove motor 270' of 6" pump, plus 13-stg 10" bowls. Bowls were completely wore out. 60' of tube & shaft was also wore out.		
Checked water level @ 135' Depth of well @345'		
Load pump on truck & return to shop & unload.		
3-men 7 hrs.	\$ 875.00	
SHOP: Assemble new submersible pump & make cable splice. tighten collars on 4" pipe. Load materials on truck. Make 8" shroud for pump.		
2-men 5 hrs. shop	\$ 400.00	
8/24 2-men & rig, drove to well site. Bail & clean sand from well to depth of 352'. Install new 30 HP Grundfos submersible pump with 273' of 4" pipe and #8 sub. cable. Made all hookups and run pump until water clear. Hookup discharge to tank. Put system in operation. An electrician will upgrade control panel.		
2-men 7½ hrs.	\$ 825.00	
TOTAL LABOR		\$2100.00
MATERIALS:		
30 HP Grundfos 460V, 3Ø, submersible pump Model #225S300-12 list \$5778.00	\$5200.00	
270' of 4" pipe	\$1620.00	
270' of #8 sub. cable wire	\$ 540.00	
1- well plate seal	\$ 150.00	
1- 8" x 10" shroud	\$ 85.00	
1- 4" x 3" bell reducer & 2-4" tee's	\$ 140.00	
TOTAL MATERIALS		\$7735.00
SALES TAX		\$ 638.14
FREIGHT		\$ 137.00
GRAND TOTAL		\$10610.14
THIS PUMP HAS A 1 YEAR WARRANTY.		
8/5/93 RECEIVED DOWN PAYMENT CK. #22995\$ 5305.00-
BALANCE		\$5305.14
THANK YOU!		
ALL MATERIALS REMAIN THE PROPERTY OF DRC PUMP SYSTEMS INC. UNTIL FULLY PAID		

Invoice

DRC Pump Systems, Inc.
44434 90th St. East
Lancaster Ca 93535-2413
Phone: 661-946-9444

Date	Invoice #
5/7/2018	3694

Bill To
Joshua Memorial Cemetary SCI CA Funeral Services, Inc. 808 E Lancaster, CA 93535

Description	Amount
Labor to pull 273' of 4' galvanized, 30 HP pump and reinstall with new pump and added 40' to existing 273'	3,600.00
1 - 230S300-9 30 HP pump and motor <i>Grundfos</i>	8,390.00T
40' of 4" galvanized pipe <i>31'</i>	532.14T
40' of # 8 submersible cable	124.32T
Sales Tax	859.41
Thank you for choosing DRC Pumps	Total \$13,505.87

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PROOF OF SERVICE
STATE OF CALIFORNIA, COUNTY OF SAN BERNARDINO

Re: *ANTELOPE VALLEY GROUNDWATER CASES*
Los Angeles County Superior Court Judicial Council Coordinated
Proceedings No. 4408; Santa Clara County Superior Court Case No. 1-05-CV-049053


I am employed in the County of San Bernardino, State of California. I am over the age of 18 years and not a party to the within action; my business address is: 550 East Hospitality Lane, Suite 300, San Bernardino, CA 92408-4205.

On May 14, 2020, I served the foregoing document(s) described **SCI CALIFORNIA FUNERAL SERVICES, INC., A CALIFORNIA CORPORATION DBA JOSHUA MEMORIAL PARK'S VERIFIED DISCOVERY REPSONSE REGARDING GROUNDWATER PRODUCTION RIGHT CLAIM** on the interested parties in this action in the following manner:

(X) **BY ELECTRONIC SERVICE** – I caused such document(s) listed above to be electronically served, via One Legal, to all parties appearing on the Santa Clara County Superior Court website, <http://www.scefiling.org>, in the action of the Antelope Valley Groundwater Cases; proof of electronic-filing through One Legal is then printed and maintained with the original documents in our office. Electronic service is complete at the time of transmission. My electronic notification email address is dina.snider@greshamsavage.com,

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed on May 14, 2020 at San Bernardino, California.


DINA M. SNIDER