

**Jesus Ruiz**  
Mayor

**Rene Rodriguez**  
At Large

**Sergio Cox**  
District 1



**Gloria M. Rodríguez**  
District 2

**Victor Perez**  
District 3

**Anthony Gamdara**  
District 4

**Adriana Rodarte**  
Interim City Manager

**REGULAR COUNCIL MEETING MINUTES  
NOVEMBER 5, 2015 @ 6:00 P.M.**

**MEMBERS PRESENT:**

Mayor Jesus Ruiz  
Rene Rodriguez  
Sergio Cox  
Gloria M. Rodriguez

**MEMBERS ABSENT:**

Victor Perez  
Anthony Gandara (*Arrived at 8:27 p.m.*)

**STAFF PRESENT:**

Adriana Rodarte, Interim City Manager  
Olivia Navarro, City Clerk  
James Martinez, City Attorney (*Arrived at 6:09 p.m.*)  
Sam Leony, Planning and Zoning Director

Douglas Lobdell  
Victor Reta  
Chief Carlos Maldonado

**1. CALL TO ORDER**

The meeting was called to order at: 6:00 p.m.

**2. PLEDGE OF ALLEGIANCE AND A MOMENT OF SILENCE**

Pledge of Allegiance was led by Douglas Lobdell, Public Works and Parks Director

**3. ESTABLISHMENT OF QUORUM**

A roll call was held and a quorum was established with four members present.

**4. PUBLIC COMMENT**

Ralph Duran spoke during Public Comment.

**PRESENTATION**

5. **PRESENTATION ON THE STATUS OF THE ANNEXATION PROJECT FOR THE CITY OF SOCORRO.** **SAM LEONY**

Presentation made by Sam Leony.

**CONSENT AGENDA**

6. **EXCUSE ABSENT COUNCIL MEMBERS.** **OLIVIA NAVARRO**
7. **APPROVAL OF REGULAR COUNCIL MEETING MINUTES OF OCTOBER 15, 2015.** **OLIVIA NAVARRO**

A motion was made by Rene Rodriguez seconded by Sergio Cox to *approve the Consent Agenda*. Motion passed.

Ayes: Rene Rodriguez, and Sergio Cox

Nays: Gloria M. Rodriguez

Absent: Victor Perez and Anthony Gandara

**ORDINANCES**

8. **PUBLIC HEARING OF ORDINANCE 382 AMENDING THE CITY OF SOCORRO MASTER PLAN AND CHANGING THE ZONING OF TRACTS 5-A AND 6-B-1A, BLOCK 27, SOCORRO GRANT, AT 11661 SOCORRO, RD., FROM R-1 (SINGLE FAMILY RESIDENTIAL) TO C-1 (LIGHT COMMERCIAL).** **SAM LEONY**

Public Hearing opened at 6:23 p.m.

No Speakers

Public Hearing closed at 6:23 p.m.

9. **SECOND READING AND ADOPTION OF ORDINANCE 382 AMENDING THE CITY OF SOCORRO MASTER PLAN AND CHANGING THE ZONING OF TRACTS 5-A AND 6-B-1A, BLOCK 27, SOCORRO GRANT, AT 11661 SOCORRO, RD., FROM R-1 (SINGLE FAMILY RESIDENTIAL) TO C-1 (LIGHT COMMERCIAL).** **SAM LEONY**

A motion was made by Rene Rodriguez seconded by Gloria M. Rodriguez to *approve item number nine (9)*

An amended motion was made by Rene Rodriguez seconded by Gloria M. Rodriguez to *limit the use to small party hall*. Motion passed.

Ayes: Rene Rodriguez, Sergio Cox, and Gloria M. Rodriguez  
Nays:  
Absent: Victor Perez and Anthony Gandara

- 10. PUBLIC HEARING OF ORDINANCE 383 AMENDING THE CITY OF SOCORRO MASTER PLAN AND CHANGING THE ZONING OF LOT 11, BLOCK 3, LA JOLLA, AT 100 LA CIENEGA DR., FROM R-1 (SINGLE FAMILY RESIDENTIAL) TO R-2 (MEDIUM DENSITY RESIDENTIAL).**  
**SAM LEONY**

**Public Hearing opened at 6:27 p.m.**  
**No Speakers**  
**Public Hearing closed at 6:27 p.m.**

- 11. SECOND READING AND ADOPTION PUBLIC HEARING OF AN ORDINANCE 383 AMENDING THE CITY OF SOCORRO MASTER PLAN AND CHANGING THE ZONING OF LOT 11, BLOCK 3, LA JOLLA, AT 100 LA CIENEGA DR., FROM R-1 (SINGLE FAMILY RESIDENTIAL) TO R-2 (MEDIUM DENSITY RESIDENTIAL).**  
**SAM LEONY**

A motion was made by Gloria M. Rodriguez seconded by Rene Rodriguez to *approve item number eleven (11)*. Motion passed.

Ayes: Rene Rodriguez, Sergio Cox, and Gloria M. Rodriguez  
Nays:  
Absent: Victor Perez and Anthony Gandara

**PUBLIC WORKS**

- 12. DISCUSSION AND ACTION TO APPROVE CONCEPT AND BUDGET FOR WALKING TRAIL AT 911 PARK.**  
**DOUGLAS LOBDELL**

A motion was made by Gloria M. Rodriguez seconded by Rene Rodriguez to *approve item number twelve with a \$10,000.00 budget*. Motion passed.

Ayes: Rene Rodriguez, Sergio Cox, and Gloria M. Rodriguez  
Nays:  
Absent: Victor Perez and Anthony Gandara

- 13. DISCUSSION AND ACTION TO CONSIDER OUTSOURCING FUTURE PAVING/OVERLAY PROJECTS.**  
**DOUGLAS LOBDELL**

A motion was made by Rene Rodriguez seconded by Gloria M. Rodriguez to *approve item number thirteen (13) and keep in house*. Motion passed.

Ralph Duran spoke on this item.

Ayes: Rene Rodriguez, Sergio Cox, and Gloria M. Rodriguez

Nays:

Absent: Victor Perez and Anthony Gandara

**14. DISCUSSION AND ACTION TO CONSIDER OPTIONS FOR COMPLETION OF THE ONION FIELD PONDING AREA. DOUGLAS LOBDELL**

A motion was made by Sergio Co to *approve in-house*.

Sergio Cox withdrew his motion

A motion was made by Sergio Cox seconded by Rene Rodriguez to *instruct staff to take appropriate steps to put out for BID if necessary or otherwise contract with necessary firms to pursue option No. 2 (see Exhibit "A")*. Motion passed.

Ayes: Rene Rodriguez, Sergio Cox, and Gloria M. Rodriguez

Nays:

Absent: Victor Perez and Anthony Gandara

A motion was made by Rene Rodriguez seconded by Sergio Cox to *move item number twenty-four (24) to be next on the agenda*. Motion passed.

Ayes: Rene Rodriguez, Sergio Cox, and Gloria M. Rodriguez

Nays:

Absent: Victor Perez and Anthony Gandara

**24. DISCUSSION AND ACTION ON CONCRETE BOX CULVERTS WITH GATES AND DRAINAGE THROUGHOUT CITY FLOOD AREAS AND OTHER MEASURES TO ADDRESS DRAINAGE AND FLOODING. RENE RODRIGUEZ**

Sam Leony made a presentation see Exhibit "B".

A motion was made by Sergio Cox seconded by Rene Rodriguez to *direct staff to find funding for this and bring back for final approval*. Motion passed.

Ayes: Rene Rodriguez second Sergio Cox

Nays: Gloria M. Rodriguez

Absent: Victor Perez and Anthony Gandara

**PLANNING AND ZONING**

**15. DISCUSSION AND ACTION ON THE REQUEST TO APPEAL THE DECISION OF THE PLANNING AND ZONING COMMISSION OF DENYING THE PROPOSED AMENDMENT TO THE CITY OF SOCORRO MASTER PLAN, AND REZONING OF LOT 9, BLOCK 2, MCADOO ACRES SUBDIVISION AT 11270 MARK MABON CT., FROM R-1 (SINGLE FAMILY RESIDENTIAL) TO C-2 (GENERAL COMMERCIAL). *SAM LEONY***

A motion was made by Rene Rodriguez seconded by Gloria M. Rodriguez to *deny the application*. Motion passed.

A motion was made by Rene Rodriguez seconded by Gloria M. Rodriguez to *suspend the rule and allow speakers to speak*.

Ayes: Rene Rodriguez, Sergio Cox and Gloria M. Rodriguez

Nays:

Absent: Victor Perez and Anthony Gandara

Blanca Alvarez and Maria Salazar spoke on this item.

Ayes: Rene Rodriguez, Sergio Cox and Gloria M. Rodriguez

Nays:

Absent: Victor Perez and Anthony Gandara

A motion was made by Rene Rodriguez seconded by Sergio Cox to *move into Executive Session at this time*. Motion passed.

Ayes: Rene Rodriguez, Sergio Cox and Gloria M. Rodriguez

Nays:

Absent: Victor Perez and Anthony Gandara

**THE CITY COUNCIL CONVENED INTO EXECUTIVE SESSION AT 8:04 P.M.**

**EXECUTIVE SESSION**

**THE CITY COUNCIL RECONVENED BACK IN OPEN SESSION AT 8:16 P.M.**

A motion was made by Rene Rodriguez seconded by Sergio Cox to *move up item number twenty (20)*. Motion passed.

Ayes: Rene Rodriguez, Sergio Cox and Gloria M. Rodriguez

Nays:

Absent: Victor Perez and Anthony Gandara

**CITY MANAGER**

- 20. DISCUSSION AND ACTION TO AUTHORIZE THE CITY MANAGER OR HER DESIGNEE TO EXECUTE THE COURT BASE SYSTEM ANNUAL SOFTWARE LICENSE AND CUSTOMER SUPPORT RENEWAL PACKAGE AGREEMENT AND RELATED DOCUMENTS TO EFFECT THE CITY'S PURCHASE, USE AND INSTALLATION OF THE CARDINAL SOFTWARE APPLICATION AND TO AUTHORIZE THE EXPENDITURE OF \$3,682.20 FOR THIS PURPOSE. ADRIANA RODARTE**

A motion was made by Rene Rodriguez seconded by Sergio Cox to *approve item number twenty (20)*. Motion passed.

Ayes: Rene Rodriguez, Sergio Cox and Gloria M. Rodriguez

Nays:

Absent: Victor Perez and Anthony Gandara

- 21. DISCUSSION AND ACTION REGARDING DESIGN FOR IMPROVEMENTS TO MAURO ROSAS PARK AND TO AUTHORIZE THE CITY MANAGER OR HER DESIGNEE TO EXECUTE AMENDMENT NO. 2 TO THE AGREEMENT FOR DESIGN SERVICES TO REVISE THE DESIGN FOR RESTROOM & ELECTRICAL BUILDINGS/PLAYGROUND AND TO INCREASE THE CONTRACT AMOUNT BY \$47,361.00 FOR THIS PURPOSE. ADRIANA RODARTE**

A motion was made by Gloria M. Rodriguez to *approve item number twenty-one (21)*. Motion dies due to no second.

Adriana Rodarte made presentation.

A motion was made by Rene Rodriguez seconded by Sergio Cox to *reject the proposed amendment No. 2 and authorize the city manager or her designee to execute the design*. Motion passed.

Ayes: Rene Rodriguez, Sergio Cox and Gloria M. Rodriguez

Nays:

Absent: Victor Perez and Anthony Gandara

**PLANNING AND ZONING**

- 16. DISCUSSION AND ACTION ON THE FINAL PLAT APPROVAL FOR DAIRYLAND SUBDIVISION REPLAT "J". SAM LEONY**

A motion was made by Rene Rodriguez seconded by Sergio Cox to *approve item number sixteen (16)*. Motion passed.

Ayes: Rene Rodriguez, Sergio Cox and Gloria M. Rodriguez

Nays:

Absent: Victor Perez and Anthony Gandara

**17. DISCUSSION AND ACTION ON THE FINAL PLAT APPROVAL FOR DAIRYLAND SUBDIVISION REPLAT "R".** **SAM LEONY**

A motion was made by Rene Rodriguez seconded by Sergio Cox to *approve item number seventeen (17)*. Motion passed.

Ayes: Rene Rodriguez, Sergio Cox and Gloria M. Rodriguez

Nays:

Absent: Victor Perez and Anthony Gandara

**18. DISCUSSION AND ACTION ON THE FINAL PLAT APPROVAL FOR DAIRYLAND SUBDIVISION REPLAT "S".** **SAM LEONY**

A motion was made by Rene Rodriguez seconded by Gloria M. Rodriguez to *approve item number eighteen (18)*. Motion passed.

Ayes: Rene Rodriguez, Sergio Cox and Gloria M. Rodriguez

Nays:

Absent: Victor Perez and Anthony Gandara

**19. DISCUSSION AND ACTION ON THE PROPOSED RESOLUTION TO FORMALIZE THE EXTERNAL CONTRIBUTION ON THE CONSTRUCTION COST OF THE LEADERSHIP BRIDGE PROJECT.** **SAM LEONY**

Anthony Gandara arrived to the meeting at 8:27 p.m.

A motion was made by Rene Rodriguez seconded by Anthony Gandara to *approve item number nine (19)*. Motion passed.

Sam Leony made presentation.

Ayes: Rene Rodriguez, Anthony Gandara, Sergio Cox and Gloria M. Rodriguez.

Nays:

Absent: Victor Perez

**MAYOR AND COUNCIL**

**22. DISCUSSION AND ACTION TO AUTHORIZE THE MAYOR OR HIS DESIGNEE TO EXECUTE THE SOFTWARE LICENSING AGREEMENT AND RELATED DOCUMENTS TO EFFECT THE CITY'S PURCHASE, USE AND INSTALLATION OF THE OPENGOV SOFTWARE APPLICATION AND TO AUTHORIZE THE EXPENDITURE OF \$8,500.00 FOR THIS PURPOSE.** **MAYOR JESUS RUIZ**

A motion was made by Gloria M. Rodriguez seconded by Anthony Gandara to *approve item number twenty-two (22)*. Motion passed.

Ayes: Rene Rodriguez, Anthony Gandara, Sergio Cox and Gloria M. Rodriguez.

Nays:

Absent: Victor Perez

**23. DISCUSSION AND ACTION TO AUTHORIZE THE MAYOR OR HIS DESIGNEE TO EXECUTE THE SOFTWARE LICENSING AGREEMENT AND RELATED DOCUMENTS TO EFFECT THE CITY'S PURCHASE, USE AND INSTALLATION OF THE CITY SOURCED MOBILE APPLICATION AND TO AUTHORIZE THE EXPENDITURE OF \$10,100.00 FOR THIS PURPOSE.**  
**MAYOR JESUS RUIZ**

A motion was made by Rene Rodriguez seconded by Anthony Gandara to *approve item number twenty-three (23)*. Motion passed.

Ayes: Rene Rodriguez, Anthony Gandara, Sergio Cox and Gloria M. Rodriguez.

Nays:

Absent: Victor Perez

**25. DISCUSSION AND ACTION ON ADVICE RECEIVED FROM CITY ATTORNEY IN CLOSED SESSION, AND ACTION TO APPROVE REAL ESTATE TRANSACTION; AUTHORIZE FILING OR SETTLEMENT OF LEGAL ACTION; AUTHORIZE EMPLOYMENT OF EXPERT WITNESSES AND CONSULTANTS, AND EMPLOYMENT OF SPECIAL COUNSEL WITH RESPECT TO PENDING LEGAL MATTERS.**

**ADRIANA RODARTE**

**26. DISCUSSION AND ACTION ON QUALIFICATIONS OF INDIVIDUALS FOR EMPLOYMENT AND FOR APPOINTMENT TO BOARDS & COMMISSIONS, JOB PERFORMANCE OF EMPLOYEES, REAL ESTATE ACQUISITION AND RECEIVE LEGAL ADVICE FROM CITY ATTORNEY REGARDING LEGAL ISSUES AFFECTING THESE MATTERS.**

**ADRIANA RODARTE**

**27. DISCUSSION AND ACTION REGARDING PENDING LITIGATION AND RECEIVE STATUS REPORT REGARDING PENDING LITIGATION.**

**ADRIANA RODARTE**

A motion was made by Gloria M. Rodriguez seconded by Rene Rodriguez to *delete items twenty-five (25), twenty-six (26) and twenty-seven (27)*. Motion passed.

Ayes: Rene Rodriguez, Anthony Gandara, Sergio Cox, and Gloria M. Rodriguez

Nays:

Absent: Victor Perez

**28. ADJOURN**

A motion was made by Gloria M. Rodriguez seconded by Rene Rodriguez to *adjourn* at 8:32 p.m. Motion passed.

Ayes: Rene Rodriguez, Anthony Gandara, Sergio Cox, and Gloria M. Rodriguez

Nays:

Absent: Victor Perez

  
\_\_\_\_\_  
**Jesus Ruiz, Mayor**

  
\_\_\_\_\_  
Olivia Navarro  
City Clerk

  
\_\_\_\_\_  
Date minutes were approved

Exhibit "A"



# "Quick Fix" Analysis 2



## Onion Field Costs Worksheet

This worksheet allows what-if scenarios for estimating costs of excavating the Onion Field flood control structure.



Field acreage	<u>18 Acres</u>	<i>(Can vary based on width of perimeter berm space. Recommend 18 acres)</i>
Depth	<u>5 Feet</u>	<i>(Can vary, recommend 5' deep)</i>
Scraper capacity	<u>23 Cubic Yds</u>	<i>(Different equipment has different dig/haul capacity. Larger number = faster work)</i>
Cycle time/load	<u>5 Minutes</u>	<i>(How many minutes to load, haul, dump, and return)</i>
Shifts/day	<u>2.0 Shifts</u>	<i>(How many 8-hour shifts will we work per day)</i>
Production Hrs/Shift	<u>7 Hours</u>	<i>(Equipment will not be productive a full 8 hours. It will take an hour or two for crew changeovers, refuelling, maintenance, etc.)</i>
Number of scrapers	<u>2 Scrapers</u>	<i>(How many scrapers will we rent?)</i>
Days worked/week	<u>6 Days</u>	<i>(Do we want to have a 5, 6, or 7-day work week to optimize work for rental equipment?)</i>
Dozer cost	<u>4500 Per week</u>	<i>(If using daily or monthly please convert to weekly)</i>
Scraper cost	<u>6670 Per week</u>	
In-house employees	<u>4 Pers.</u>	<i>(How many in-house equipment operators will we use?)</i>
Hours OT auth	<u>0 Hours</u>	<i>(How many overtime hours will in-house empl work per week?)</i>
Temp hourly rate	<u>20.88 \$/hour</u>	<i>(What is the per-hour rate for temp operators?)</i>

Total Equipment Cost:	\$ 67,038.51
Total Overtime Cost	\$ -
Total Temp Cost	\$ 12,553.94
Total Project Cost	\$ 79,592.45
Project Time	3.76 weeks

Minimize time

Item # 24

Exhibit "B"



\*  
**CONCRETE BOX CULVERTS  
AND STORMWATER IMPROVEMENTS**

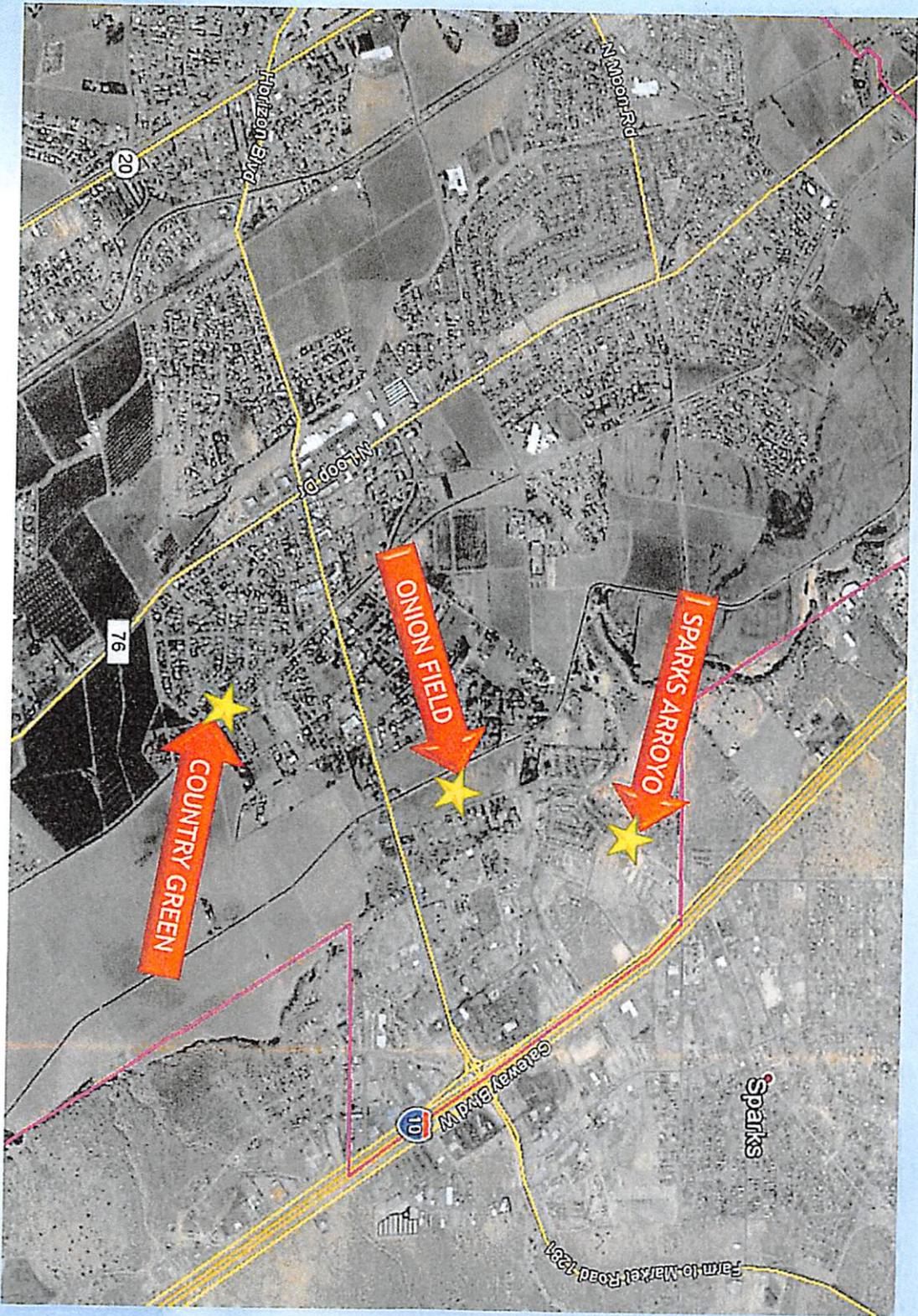
CITY OF SOCORRO  
PLANNING & ZONING  
860 N. RIO VISTA  
SOCORRO, TX. 79927

11/5/2015

# EXISTING CONDITION

- \* Onion Field has been acquired
- \* 1.5 acres have been excavated
- \* A 3,000 LF. Berm has been installed on the Onion Field's west side perimeter
- \* A portion of Sparks Arroyo has been acquired for proposed improvement
- \* Grant to improve a portion of the Sparks Arroyo has been granted to the City

# HIGH PRIORITY PROBLEM AREAS



# \* RUNOFF FROM OTHERS

- \* The Sparks Arroyo flows at 2,650 cfs during peak flows, according to El Paso County Storm Water Master Plan
- \* El Paso County has future plans for a storm water retention pond in the Sparks neighborhood, meanwhile the Sparks Arroyo delivers storm water and sediment into the City of Socorro





# SPARKS ARROYO IMPROVEMENT SCHEDULE

## PHASE I:

- INSTALL APPROXIMATELY 400' FEET OF CONCRETE LINING ALONG THE COUNTY SIDE OF SPARKS ARROYO

## PHASE II:

- INSTALL CONCRETE CHANNEL 1000' FEET INTO THE STOCKYARD POND

## PHASE III:

- IMPROVE THE STOCKYARD POND

## PHASE IV:

- INSTALL CONCRETE CHANNEL 760' FEET INTO STOCKYARD BRIDGE

## PHASE V:

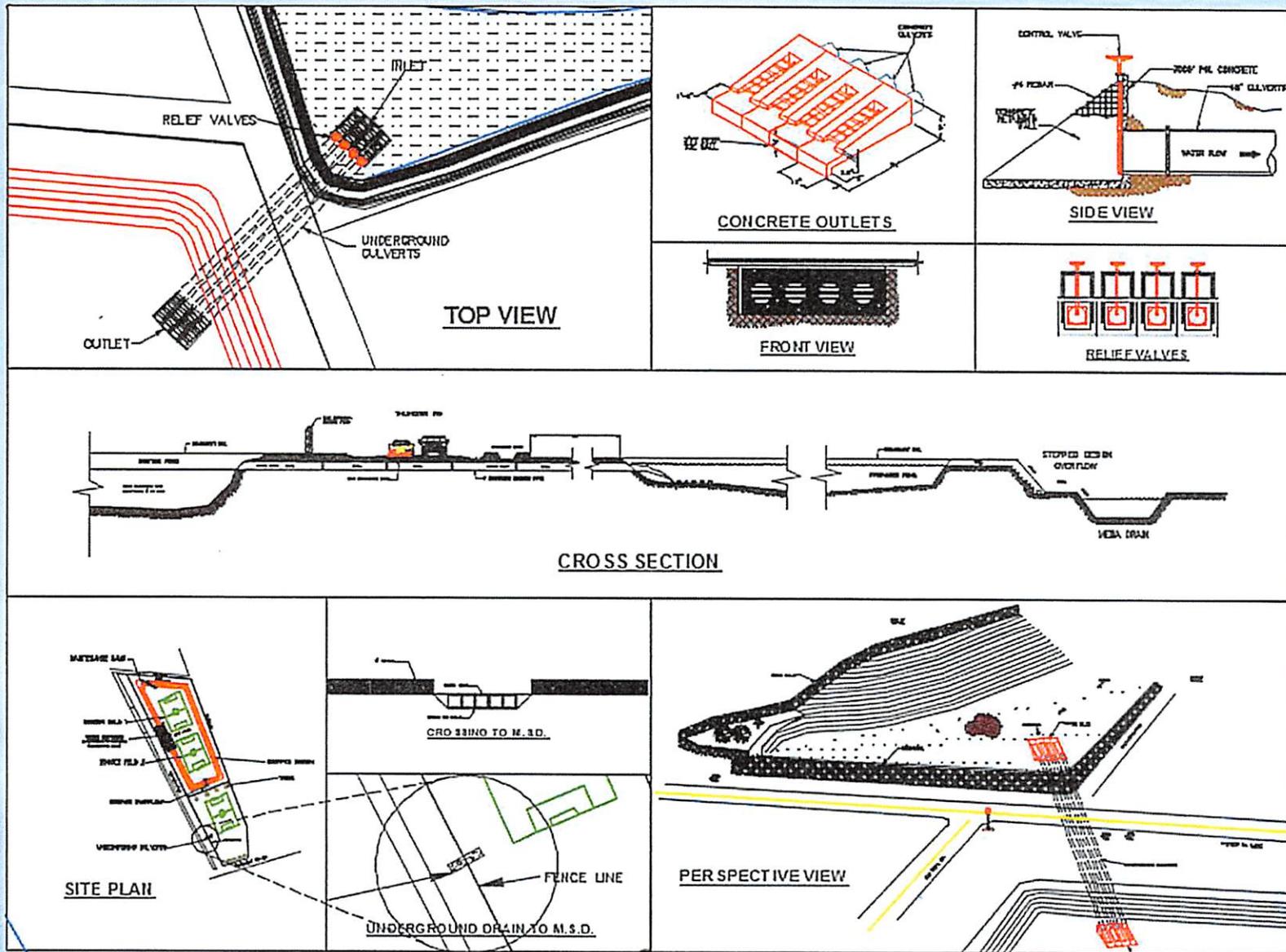
- CONTINUE CONCRETE CHANNEL LINING INTO AGUIRRE POND (THIS REQUIRES RIGHT-OF-WAY ACQUISITION)

## PHASE VI:

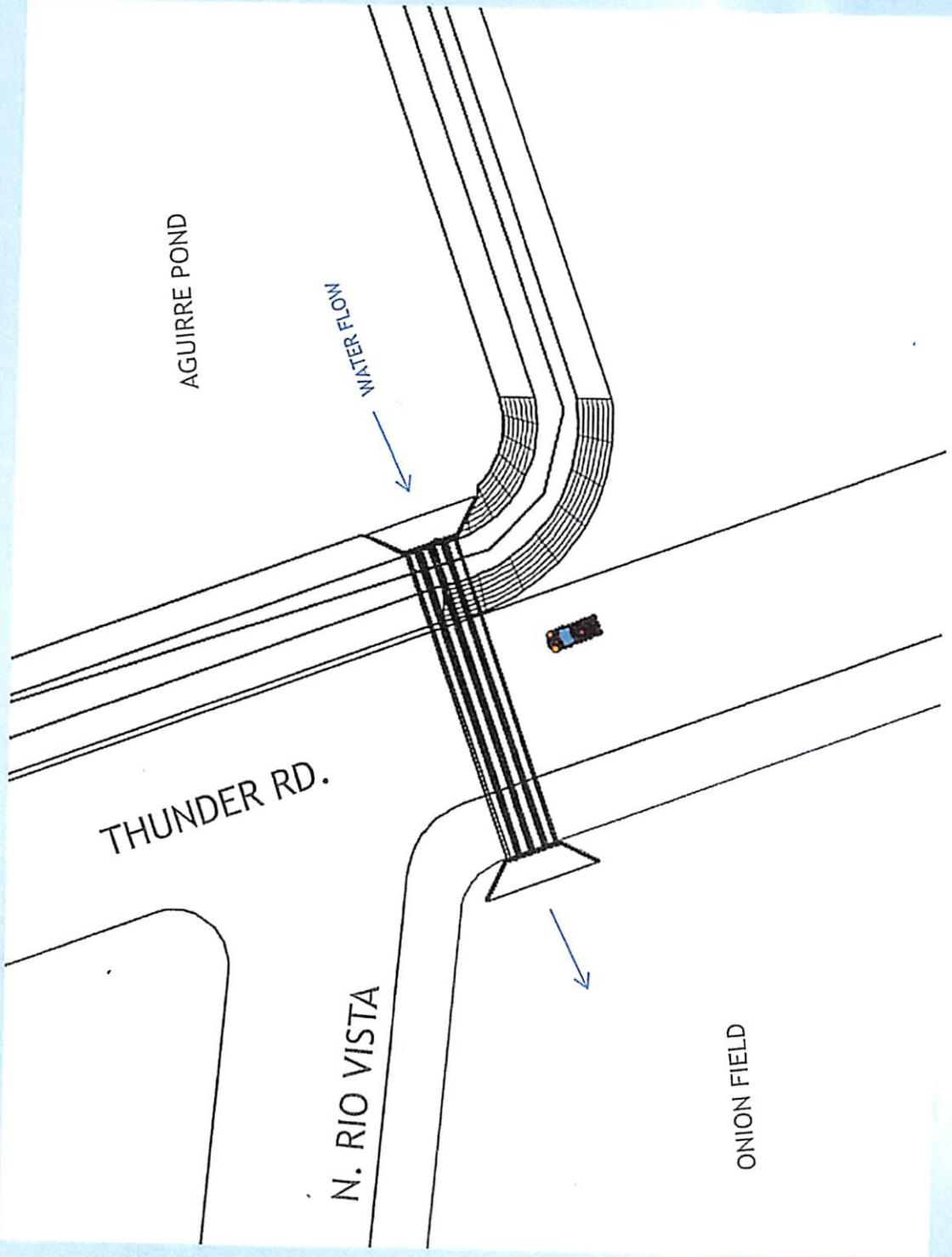
- IMPROVE AGUIRRE POND

## PHASE VII:

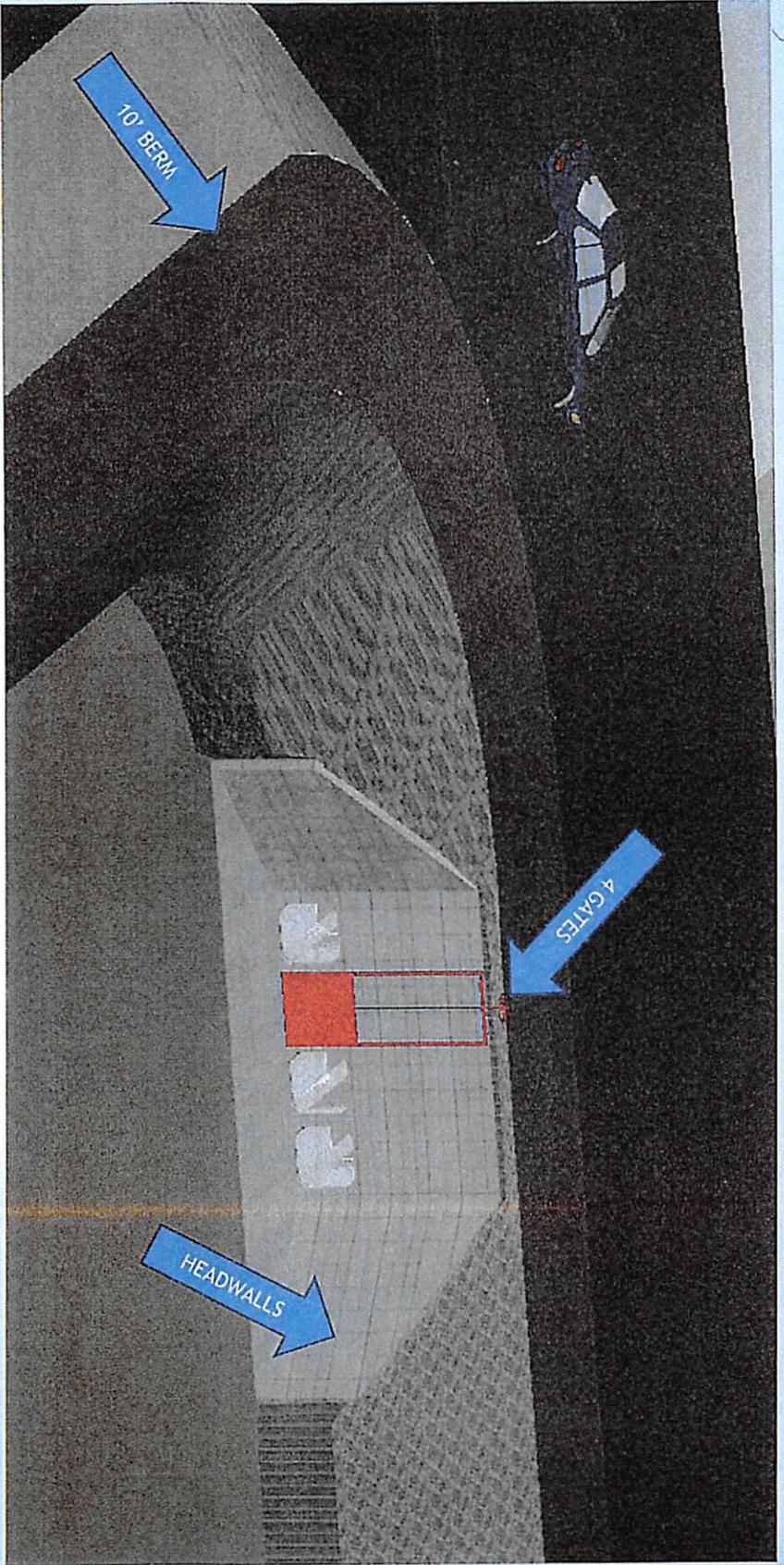
- IMPROVE ONION FIELD POND



# CONCRETE BOX CULVERTS



# CONCRETE BOX CULVERTS



WATER RUNOFF FROM THE SPARKS ARROYO CAN CROSS UNDER THUNDER RD. INTO THE ONION FIELD (AFTER EXCAVATION) USING 48" CONCRETE BOX CULVERTS. WATER FLOW CAN BE REGULATED USING A GATE ON EACH CULVERT INLET.

### Thunder Rd. Box Culverts

Description	\$/Unit	Unit	Quantity	Total
Earthwork/Excavation	\$5.00	CY	280	\$1,400.00
Soil Disposal	\$5.00	CY	280	\$1,400.00
Asphalt	\$50.00	SY	8	\$400.00
48" Concrete Box Culverts	\$157.50	LF	600	\$94,500.00
Utility Relocation	\$0.00	EA	1	\$0.00
Concrete	\$89.00	SY	40	\$3,560.00
**C-10 Canal Gates (optional)	\$6,146.00	EA	4	\$24,584.00
5% Contingency	\$6,293	%	1	6292.5
				\$132,136.50

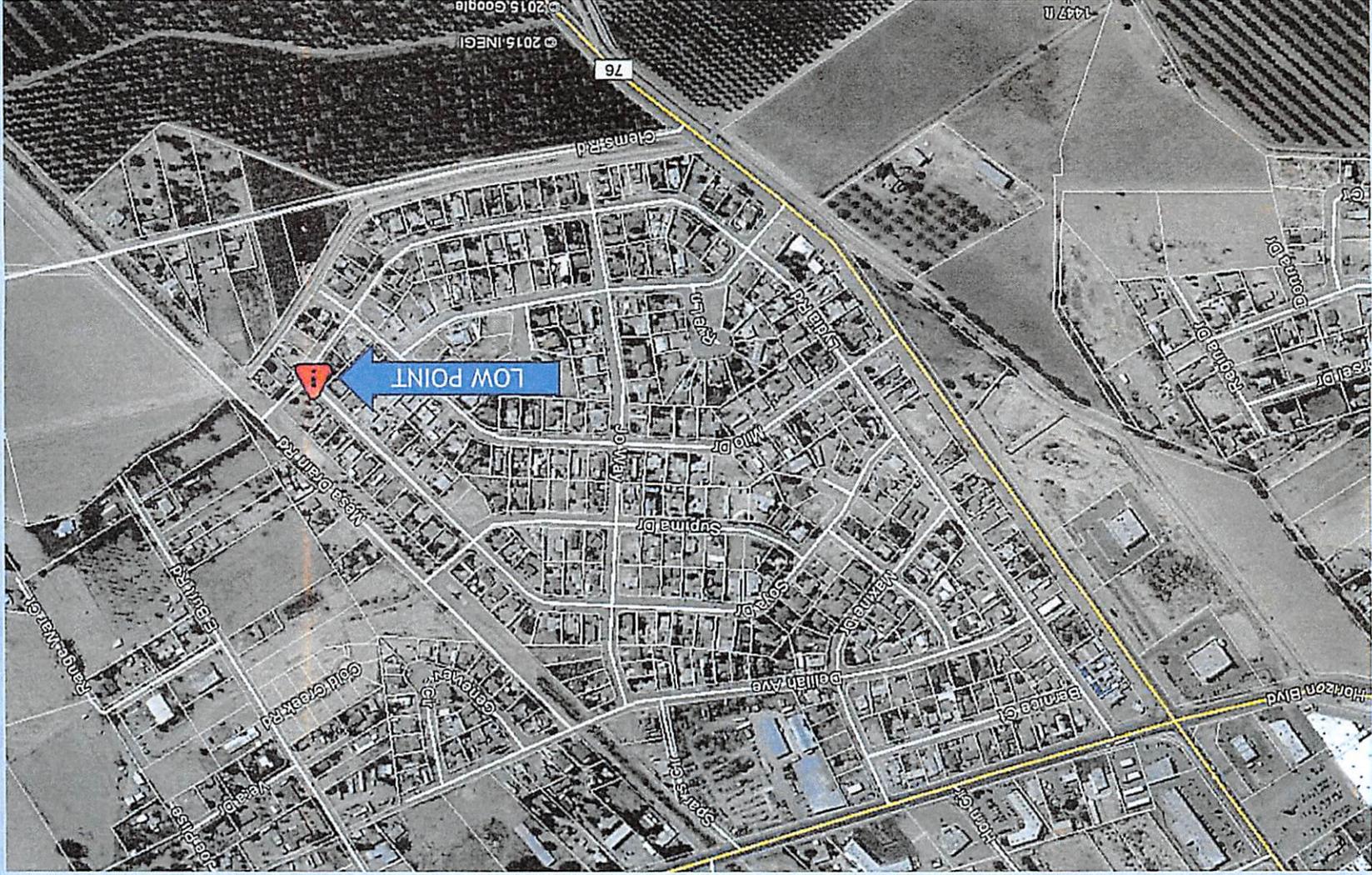
\*\*Note: Gates can be installed after the culverts and the headwalls are complete.

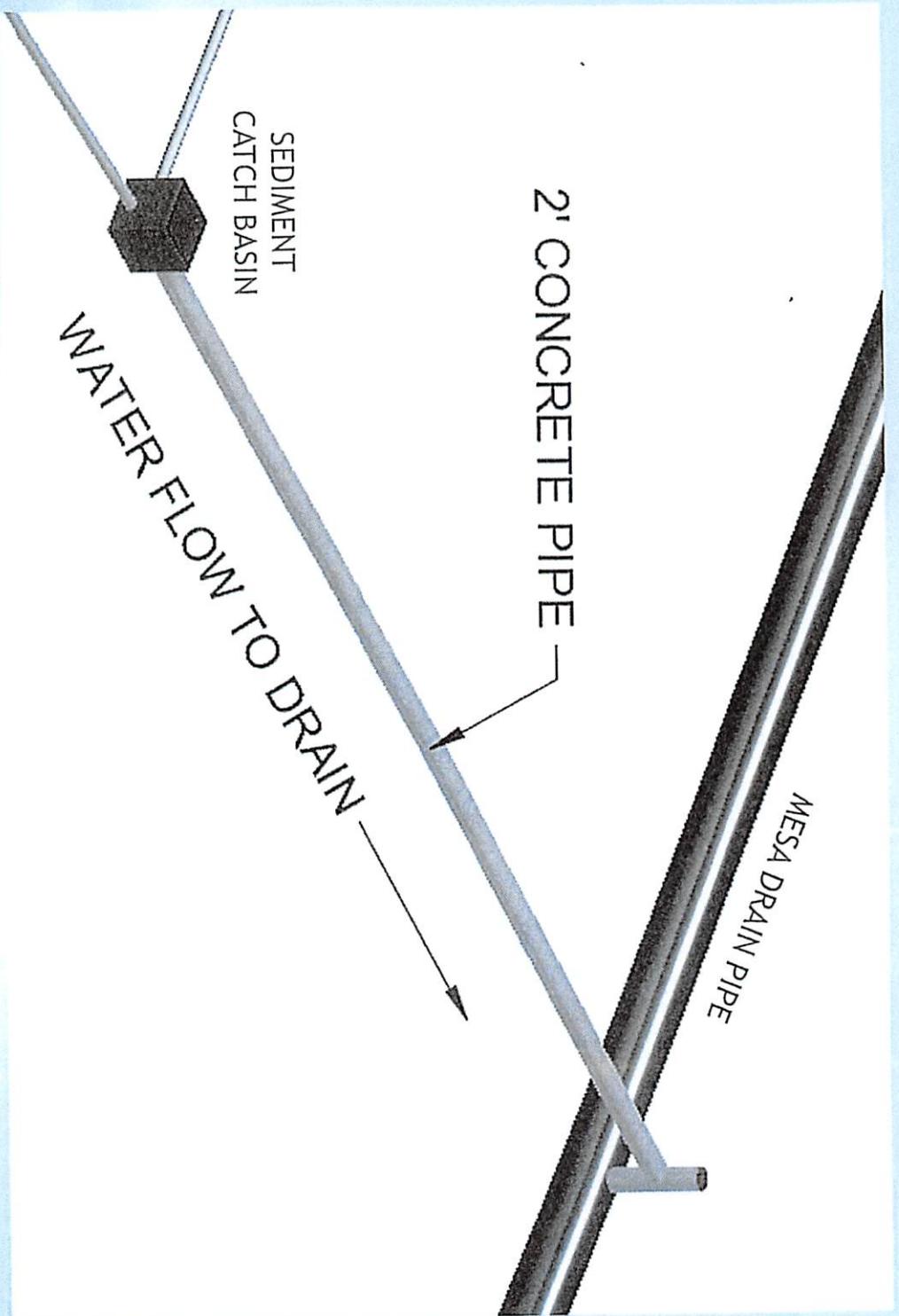
## BOX CULVERT COST

**ONCE THE CONCRETE BOX CULVERTS HAVE BEEN  
INSTALLED, THUNDER RD. CAN BE WIDENED UP TO  
60' FEET OR MORE.**



# Country Green Subdivision also has flood zones. One of them is at Soya Dr.





\* SOLUTION TO SOYA DRAIN PROBLEM

Soya Street Drains				
Description	\$/Unit	Unit	Quantity	Total
Earthwork/Excavation	\$5.00	CY	431	\$2,155.00
Soil Disposál	\$5.00	CY	2058	\$10,290.00
Asphalt	\$50.00	SY	80	\$4,000.00
12" x 20" schedule 40 PVC pipe	\$302.99	EA	25	\$7,574.75
24" x 20' 16ga. Metal culvert	\$430.00	EA	10	\$4,300.00
60" x 60" catch Basin	\$2,160.00	EA	6	\$12,960.00
Iron Grates	\$700.00	EA	6	\$4,200.00
5 % Contingency	\$2,273.99	EA	1	\$2,273.99
				\$47,753.74

\* SOYA DRAINS COST

## *COST OF PROPOSED IMPROVEMENTS*

- I. PHASE I.....\$614,824
- II. PHASE II.....\$1,537,083
- III. PHASE III.....\$614,467
- IV. PHASE IV.....\$1,072,524
- V. PHASE V.....\$2,158,182
- VI. PHASE VI.....\$936,441
- VII. PHASE VII.....\$2,729,532

Concrete Box Culverts for Thunder Rd.....\$132,137

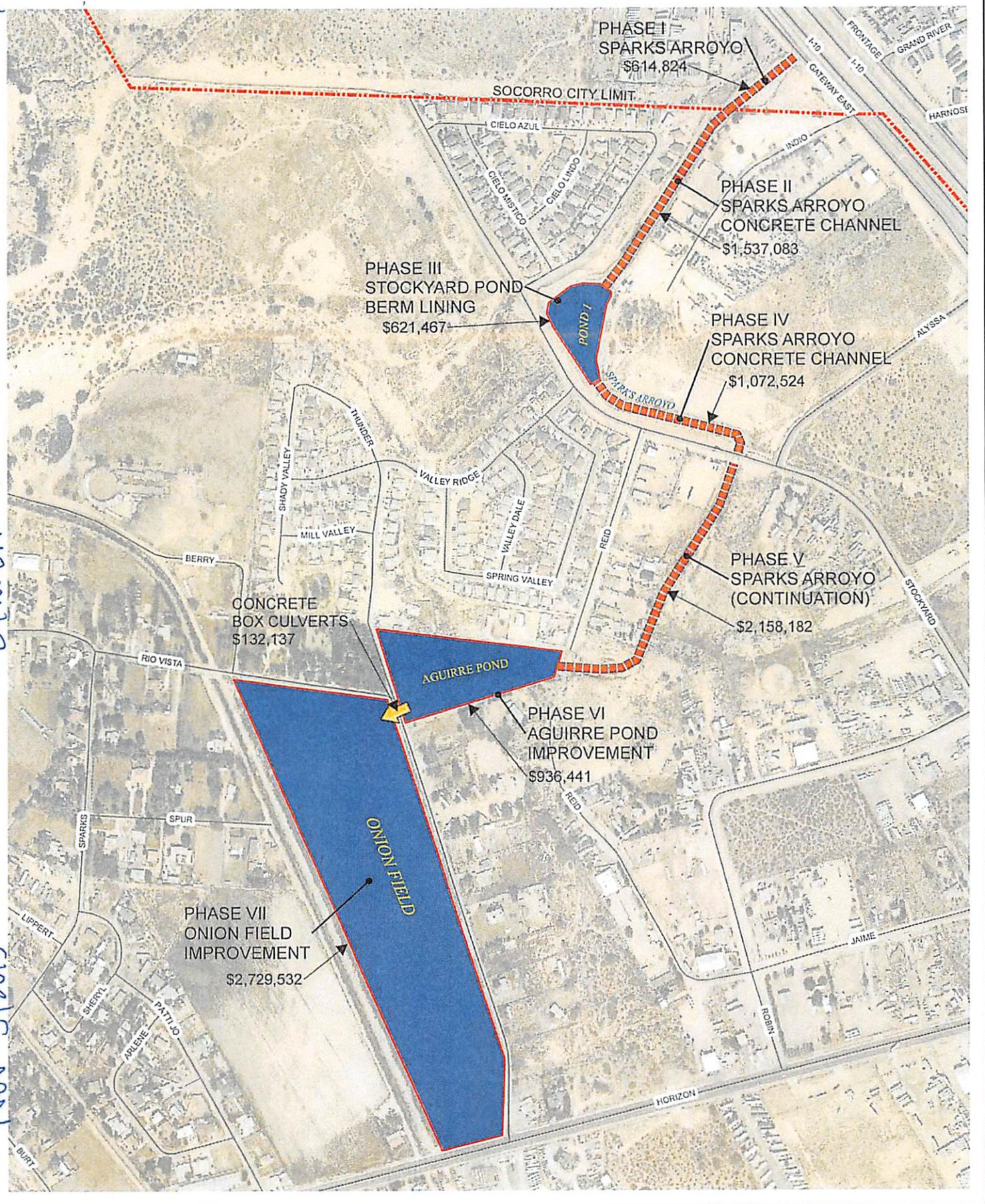
Street Drains with Catch Basins for Soya.....\$47,754

# QUESTIONS?

Item #24

Exhibit B

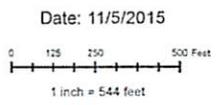
Nov 5, 2015

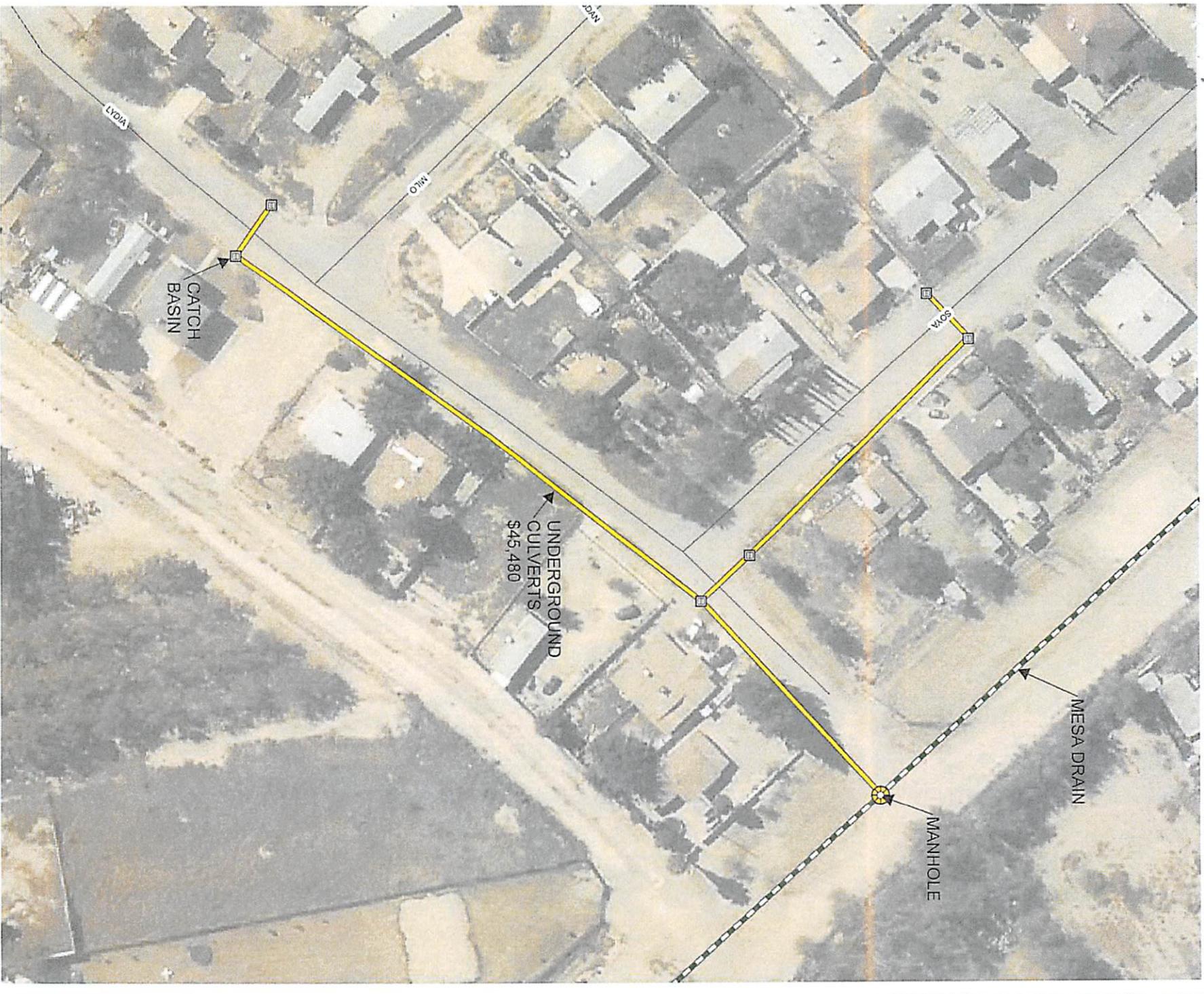


CITY OF SOCORRO  
 PLANNING & ZONING  
 860 N. RIO VISTA  
 SOCORRO, TX. 79927



# SPARKS ARROYO IMPROVEMENTS





# COUNTRY GREEN IMPROVEMENTS

Date: 11/5/2015



Thunder Rd. Box Culverts				
Description	\$/Unit	Unit	Quantity	Total
Earthwork/Excavation	\$5.00	CY	280	\$1,400.00
Soil Disposal	\$5.00	CY	280	\$1,400.00
Asphalt	\$50.00	SY	8	\$400.00
48" Concrete Box Culverts	\$157.50	LF	600	\$94,500.00
Utility Relocation	\$0.00	EA	1	\$0.00
Concrete	\$89.00	SY	40	\$3,560.00
**C-10 Canal Gates (optional)	\$6,146.00	EA	4	\$24,584.00
5% Contingency	\$6,293	%	1	6292.5
				\$132,136.50

Soya Street Drains				
Description	\$/Unit	Unit	Quantity	Total
Earthwork/Excavation	\$5.00	CY	431	\$2,155.00
Soil Disposal	\$5.00	CY	2058	\$10,290.00
Asphalt	\$50.00	SY	80	\$4,000.00
12" x 20" schedule 40 PVC pipe	\$302.99	EA	25	\$7,574.75
24" x 20" 16ga. Metal culvert	\$430.00	EA	10	\$4,300.00
60" x 60" catch Basin	\$2,160.00	EA	6	\$12,960.00
Iron Grates	\$700.00	EA	6	\$4,200.00
5% Contingency	\$2,273.99	EA	1	\$2,273.99
				\$47,753.74

Sparks Arroyo County Side (PHASE I)				
ITEM	UNIT	UNIT COST	QUANTITY	COST
Earthwork	CY	\$7.50	8,154	\$ 61,155.00
Soil Disposal	CY	\$7.50	4,077	\$ 30,577.50
Embankment Fill (Clay)	CY	\$37.50	4,077	\$ 152,887.50
Polyurethane / Geotextile Membrane	SY	\$6.75	1,071	\$ 7,229.25
Concrete Embankment Lining	SY	\$111.16	1,840	\$ 204,534.40
Engineering: Survey				\$ 34,173.38
Engineering: Design				\$ 34,173.38
Engineering: Construction				\$ 34,173.38
General Administration				\$ 55,920.08
<b>Total Cost of Improvements</b>				<b>\$ 614,823.87</b>

Sparks Arroyo Part 1 (PHASE II)				
ITEM	UNIT	UNIT COST	QUANTITY	COST
Earthwork	CY	\$7.50	20,385	\$ 152,887.50
Soil Disposal	CY	\$7.50	10,193	\$ 76,447.50
Embankment Fill (Clay)	CY	\$37.50	10,193	\$ 382,237.50
Polyurethane / Geotextile Membrane	SY	\$6.75	2,678	\$ 18,076.50
Concrete Embankment Lining	SY	\$111.16	4,600	\$ 511,336.00
Engineering: Survey		\$85,432.50	1	\$ 85,432.50
Engineering: Design		\$85,432.50	1	\$ 85,432.50
Engineering: Construction		\$85,432.50	1	\$ 85,432.50
General Administration		\$139,800.00	1	\$ 139,800.00
<b>Total Cost of Improvements</b>				<b>\$ 1,537,082.50</b>

Stockyard Pond Lining (PHASE III)				
ITEM	UNIT	UNIT COST	QUANTITY	COST
Earthwork	CY	\$7.50	12,068	\$ 90,510.00
Soil Disposal	CY	\$7.50	6,034	\$ 45,255.00
Embankment Fill (Clay)	CY	\$37.50	6,034	\$ 226,275.00
Polyurethane / Geotextile Membrane	SY	\$6.75	1,585	\$ 10,698.75
Riprap (18-inch)	CY	\$54.14	263	\$ 14,238.82
Engineering: Survey		\$50,576.04	1	\$ 50,576.04
Engineering: Design		\$50,576.04	1	\$ 50,576.04
Engineering: Construction		\$50,576.04	1	\$ 50,576.04
General Administration		\$82,761.60	1	\$ 82,761.60
<b>Total Cost of Improvements</b>				<b>\$ 621,467.29</b>

Sparks Arroyo Part 2 (PHASE IV)				
ITEM	UNIT	UNIT COST	QUANTITY	COST
Earthwork	CY	\$7.50	15,493	\$ 116,194.50
Soil Disposal	CY	\$7.50	7,746	\$ 58,095.00
Embankment Fill (Clay)	CY	\$37.50	7,746	\$ 290,475.00
Polyurethane / Geotextile Membrane	SY	\$6.75	2,035	\$ 13,732.88
Concrete Embankment Lining	SY	\$111.16	3,496	\$ 388,615.36
Engineering: Survey		\$64,928.70	1	\$ 64,928.70
Engineering: Design		\$64,928.70	1	\$ 64,928.70
Engineering: Construction		\$64,928.70	1	\$ 64,928.70
General Administration		\$10,624.80	1	\$ 10,624.80
<b>Total Cost of Improvements</b>				<b>\$ 1,072,523.64</b>

Sparks Concrete Channel (PHASE V)				
ITEM	UNIT	UNIT COST	QUANTITY	COST
Earthwork	CY	\$7.50	28,213	\$ 211,596.30
Soil Disposal	CY	\$7.50	14,106	\$ 105,795.00
Embankment Fill (Clay)	CY	\$37.50	14,106	\$ 528,975.00
Polyurethane / Geotextile Membrane	SY	\$6.75	3,706	\$ 25,015.50
Concrete Embankment Lining	SY	\$111.16	6,366	\$ 707,644.56
R.O.W. Acquisition	EA	\$30,957.00	1	\$ 30,957.00
Engineering: Survey		\$118,238.58	1	\$ 118,238.58
Engineering: Design		\$118,238.58	1	\$ 118,238.58
Engineering: Construction		\$118,238.58	1	\$ 118,238.58
General Administration		\$193,483.20	1	\$ 193,483.20
<b>Total Cost of Improvements</b>				<b>\$ 2,158,182.30</b>

Aguirre Pond Lining (PHASE VI)				
ITEM	UNIT	UNIT COST	QUANTITY	COST
Earthwork	CY	\$7.50	18,183	\$ 136,372.50
Soil Disposal	CY	\$7.50	9,092	\$ 68,187.83
Embankment Fill (Clay)	CY	\$37.50	9,092	\$ 340,950.00
Polyurethane / Geotextile Membrane	SY	\$6.75	2,388	\$ 16,121.23
Riprap (18-inch)	CY	\$54.14	397	\$ 21,490.33
Engineering: Survey		\$76,205.79	1	\$ 76,205.79
Engineering: Design		\$76,205.79	1	\$ 76,205.79
Engineering: Construction		\$76,205.79	1	\$ 76,205.79
General Administration		\$124,701.60	1	\$ 124,701.60
<b>Total Cost of Improvements</b>				<b>\$ 936,440.85</b>

Onion Field Pond (PHASE VII)				
ITEM	UNIT	UNIT COST	QUANTITY	COST
Earthwork	CY	\$7.50	53,001	\$ 397,507.50
Soil Disposal	CY	\$7.50	26,501	\$ 198,753.75
Embankment Fill (Clay)	CY	\$37.50	26,501	\$ 993,787.50
Polyurethane / Geotextile Membrane	SY	\$6.75	6,962	\$ 46,990.13
Riprap (18-inch)	CY	\$54.14	1,157	\$ 62,639.98
Engineering: Survey		\$222,124.50	1	\$ 222,124.50
Engineering: Design		\$222,124.50	1	\$ 222,124.50
Engineering: Construction		\$222,124.50	1	\$ 222,124.50
General Administration		\$363,480.00	1	\$ 363,480.00
<b>Total Cost of Improvements</b>				<b>\$ 2,729,532.36</b>