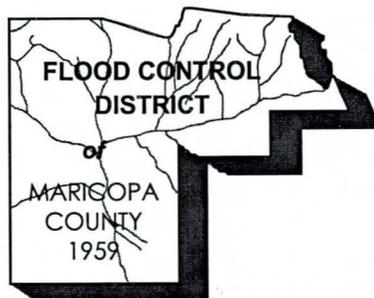


PROJECT MEETING MINUTES

Guadalupe Drainage Improvement Project 10-Year Design



**Flood Control District of Maricopa County
Contract No. FCD 2001C015
PCN 035-02-31**



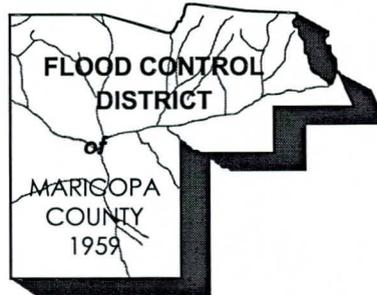
Bradford D. Olbert

December 2001

Sverdrup

PROJECT MEETING MINUTES

Guadalupe Drainage Improvement Project 10-Year Design



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Contract No. FCD 2001C015
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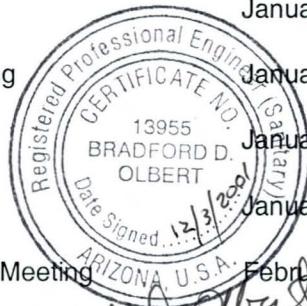
Bradford D. Olbert

December 2001

Sverdrup

**Guadalupe Drainage Improvement Project (10-Yr Design)
List of Meeting Minutes**

<u>No.</u>	<u>Meeting</u>	<u>Date</u>	<u>Author</u>
1	FCDMC Mtg with Town Manager	May 3, 2000	D. Rerick
2	FCDMC Mtg with SRP	May 15, 2000	D. Rerick
3	FCDMC Mtg with Town Council & Staff	June 27&29, 2000	D. Rerick
4	Project Kickoff Meeting	November 20, 2000	B. Olbert
5	Initial Site Visit Meeting	November 28, 2000	B. Olbert
6	Bi-Weekly Progress Meeting # 1 (Mtg included SRP Staff)	December 13, 2000	B. Olbert
7	SRP Well Site Meeting	December 14, 2000	B. Olbert
8	City of Tempe Meeting	December 21, 2000	B. Olbert
9	Telecon - ADEQ	December 27, 2000	D. Stough
10	City of Tempe Meeting	January 2, 2001	B. Olbert
11	PAAC Meeting # 1	January 4, 2001	B. Olbert
12	Prelim. Utility Meeting	January 9, 2001	D. Stough
13	Bi-Weekly Progress Meeting # 2	January 10, 2001	B. Olbert
14	Landscaping Meeting with FCDMC	January 16, 2001	B. Olbert
15	Encroachment Meeting with SRP	January 22, 2001	B. Olbert
16	Bi-Weekly Progress Meeting # 3	January 24, 2001	B. Olbert
17	Guadalupe Town Council Meeting	January 25, 2001	D. Rerick
18	Utility Meeting	January 30, 2001	B. Olbert
19	Public Meeting # 1 (10-yr)	January 31, 2001	B. Olbert
20	SRP Power Pole/Encroachment Meeting	February 2, 2001	B. Olbert
21	SRP Well Closure Meeting	February 5, 2001	D. Stough
22	Bi-Weekly Progress Meeting # 4	February 7, 2001	B. Olbert
23	SRP Teleconference Mtg - Storm Drain Align.	February 12, 2001	B. Olbert
24	Site Coordination Meeting	February 22, 2001	B. Olbert
25	Bi-Weekly Progress Meeting # 5	February 28, 2001	B. Olbert



Bradford D. Olbert

**Guadalupe Drainage Improvement Project (10-Yr Design)
List of Meeting Minutes**

No.	Meeting	Date	Author
26	Bi-Weekly Progress Meeting # 6	March 27, 2001	B. Olbert
27	Field Review Meeting	April 10, 2001	D. Rerick
28	Comment Review Mtg with City of Tempe	April 16, 2001	B. Olbert
29	Meeting with ADOT on North Basin	April 16, 2001	B. Olbert
30	PAAC Meeting # 2	April 17, 2001	B. Olbert
31	Bi-Weekly Progress Meeting # 7	April 18, 2001	B. Olbert
32	Project Survey Meeting	April 26, 2001	B. Olbert
33	Landscape Meeting	May 1, 2001	B. Olbert
34	Increased Landscape Funding	May 2, 2001	D. Rerick
35	Public Meeting # 2 (10-yr)	May 3, 2001	B. Olbert
36	Bi-Weekly Progress Meeting # 8	May 8, 2001	B. Olbert
37	Conference Call with Pascua Yaqui Tribe	May 10, 2001	D. Rerick
38	Pothole Data Review	May 14, 2001	B. Olbert
39	Utility Coordination Meeting	May 16, 2001	B. Olbert
40	Fld Mtg with COT on NE Retention Basin	May 21, 2001	B. Olbert
41	Bi-Weekly Progress Meeting # 9	May 23, 2001	B. Olbert
42	Meeting with the Diamondbacks Organization	May 23, 2001	B. Olbert
43	Ball Field Lighting and Conduit Plan	May 24, 2001	J. Ricker
44	Central Basin Fencing	May 24, 2001	J. Ricker
45	Multi-Use Paths	May 24, 2001	J. Ricker
46	Sod verses Seed	May 25, 2001	J. Ricker
47	Meeting with SRP on Power Drops	June 4, 2001	B. Olbert
48	Field Review Meeting	June 6, 2001	B. Olbert
49	Bi-Weekly Progress Meeting # 10	June 6, 2001	B. Olbert
50	Meeting w/ COT on Water Line Relocations	July 2, 2001	B. Olbert

**Guadalupe Drainage Improvement Project (10-Yr Design)
List of Meeting Minutes**

No.	Meeting	Date	Author
51	Telecon - ADEQ	July 7, 2001	D. Stough
52	Joint Town Concil / PAAC Meeting	July 12, 2001	B. Olbert
53	Bi-Weekly Progress Meeting # 11	August 1, 2001	B. Olbert
54	Bi-Weekly Progress Meeting # 12	August 27, 2001	B. Olbert
55	Joint Town Council / Public Meeting	September 13, 2001	B. Olbert
56	Survey / Water Line Meeting	September 27, 2001	B. Olbert
57	E-mail from Ameron (Frank Vigil)	September 28, 2001	F. Vigil
58	Survey Meeting	October 4, 2001	B. Olbert
59	City of Tempe Meeting	October 5, 2001	B. Olbert
60	City of Tempe Approval	November 27, 2001	J. Bond



*Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, Arizona 85009
(602) 506-1501
FAX: (602) 506-4601*

DATE: May 15, 2000
TO: Attendees and File
FROM: Don Rerick
SUBJECT: Town of Guadalupe Drainage Improvements Project –
Meeting with Town Manager on May 3, 2000

On May 3 the District staff met with the Guadalupe Town Manager and the project design consultant Sverdrup to discuss the project concept and what change might be made to the concept to minimize impacts and increase benefits. Attendees to the meeting included Luis Gonzales and Mike Shimkus from the Town, Brad Olbert of Sverdrup, and Mike Ellegood, Tom Johnson, Julie Lemmon, Russ Miracle, Ray Warriner and Don Rerick from the District. The following meeting summary is presented.

The project history was revisited and presented by Russ Miracle the project Planner. The project concept has always been to provide a 100-yr. storm outfall system for the Town, with the Town making future street and drainage improvements to convey storm drainage to the outfall system. The lay of the land in the Town causes drainage to flow from west to east, ponding against the Highline Canal. The outfall collection system concept places the storm drainage collection system along the Highline Canal. Therefore, storm drainage must flow through the Town and homes before it gets to the collection system.

There has been concern expressed by some members of the Town Council, as well as the Town Manager that the three basins as designed use a considerable amount of land that could otherwise be used for town improvements including residential development. The suggestion was made that the basins could be made less kinder and gentler, with steeper and deeper configurations, thereby possibly freeing up some of the property.

The question was asked as to why is a 100-yr. project required, and why must the collection system be located along the SRP Canal. Can a lesser level of protection be provided? Can the basin footprints be downsized to free up some excess land that could be sold? The District would sell the excess land at fair market value. The Town or others could purchase the excess land.

The Town stated that they are involved in a drainage improvement project in the northeast quadrant of the Town, using HDBG funds.

The question was asked whether the Town could leverage the Districts funding of the project to obtain other state or federal funds that could be used for more drainage improvements. A major concern that this raises for the District is then possibly being hindered by any "strings" attached to the Town's money that would affect the project.

It was suggested that a collection system with a 10-yr. level of protection within the Town and not along the canal be evaluated. The cost of the present 100-yr. collection system along the canal would be used to develop an alternative 10-yr. collection system within the streets.

The consultant stated that because of the relatively flat lay of the land in the Town, that downsizing the collector system to a 10-yr. system does not necessarily mean that the pipe sizes and costs would decrease significantly.

Essentially no cost savings would be realized by the development of a 10-yr. system. Rather the present 100-yr. system costs would be a theoretical cap on the cost for a 10-yr. system.

Right of way acquisition impacts were discussed. The District pointed out that the direction given by the Town to not relocate residents has been achieved with the present alternative. Some property acquisitions will be required but no relocations will be needed. This may change if SRP insists on keeping the collection system outside of the 12 foot wide O&M road along the canal.

The Town asked that the Acuna property acquisition be revisited to determine if a narrower strip of land could be acquired. If an underground system is constructed then possibly only a permanent drainage easement, at less cost could be obtained. It was suggested that any increased cost created by this change be deducted from the purchase price for the property. It was suggested that the Town make up any difference.

The following action items are identified:

1. Evaluate the Acuna property acquisition, reducing the 90 foot wide strip to 45 feet wide or less. Compare the project costs of replacing the present open channel with a pipe or culvert.
2. Develop a 10-yr. collection system alternative that would include a storm drain collection system within the streets, and minimize or if possible eliminate any collection system along the canal.
3. Evaluate the impacts on basin size by designing them for a 10-yr. collection system volume.
4. Look at steeper and deeper basins to identify what land savings could be realized at each of the basin sites.
5. The District would check with SRP to see if any aesthetics funds were available to the County that could be used for this project.

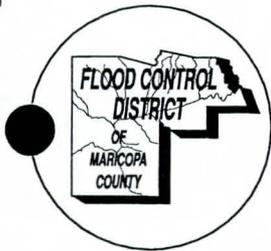
Other guidance on the design:

1. The project 60% plans and specifications have been submitted. The consultant will not move forward to 90% submittals until the above action items have been completed, reviewed and resolved.
2. Right-of-way acquisitions, which are underway based on the 60% plans, will be placed on hold.
3. The meeting with SRP to discuss canal bank impacts will continue to remain on hold.

4. The project Resolution and IGA's must be revisited to determine if the suggested changes can be made without amending these documents. In particular does a 10-yr. system violate the intent of the project authorizations? Will cost share obligations need to change if reauthorization is required?
5. The 10-yr. storm drain collection system will be designed to minimize impacts to the recently improved Avenida Del Yaqui.
6. The steeper and deeper basin parameters will be no steeper than 2:1 side slopes and no deeper than twice the present basin depth.
7. Project hydrology model must be reevaluated for the 10-yr. storm.
8. Utilities will need further and more detailed investigation to develop a more accurate cost estimate for a 10-yr. collection system.
9. A revised scope of work and change order will be required to undertake the 10-yr. system investigation. A time extension to the design contract will be required, and related CIP Program budget revisions will be required.

If this summary does not reflect the meeting results, or if the action items are incorrect or not complete, please notify the Project Manager, Don Rerick immediately at 602-506-4878.

Thank you.



*Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, Arizona 85009
(602) 506-1501
FAX: (602) 506-4601*

DATE: May 19, 2000
TO: Attendees and File
FROM: Don Rerick
SUBJECT: Town of Guadalupe Drainage Improvements Project –
Meeting on May 15, 2000 with SRP to Discuss Right-of-way Issues

On May 15 the District and Salt River Project (SRP) staff met to discuss SRP right-of-way issues on the subject project. Attendees to the meeting included Paul Cherrington, Bob Gooch, Steve Doncaster and Linda Taylor of SRP, Brad Olbert of Sverdrup, and Mike Ellegood, Tom Johnson, Julie Lemmon, Ray Warriner, Joe Munoz and Don Rerick from the District. The following meeting summary is presented.

The 100-yr. project features were revisited, primarily focusing on the collector system along the Highline Canal. The District again expressed its concerns regarding potential impacts and residential relocations that would be required if SRP continues to insist that the collector feature be designed totally outside the 12 foot O&M road limits along the west side of the canal.

SRP stated that in their conversations with the Town Manager it appears that the Town is not demanding a 100-yr. project and that in lieu of relocating residences or taking any properties in the Town, the Town would prefer downsizing the project. Further, although the Town desires the aesthetic benefits of the project, they question the direct flood control benefit to the Town since the floodwaters must pass through the Town before they are intercepted by the project. The Town questions why Tempe, which will receive significant flood control benefits from the project, is not participating either financially or by having Tempe properties impacted. The Town also believes that a downsized project would be less costly for the Town to maintain.

The District stated that we need to obtain resolution to the SRP right-of-way concerns for the 100-yr. project, and whether or not SRP will allow any 100-yr. project features to be constructed within the 12 foot O&M road limits.

SRP's response, in accordance with their understanding of the IGA, was a clear and unqualified "no" to constructing any project features within the 12-foot O&M road along any portion of the canal. This included the area of the dry cleaners and car wash establishments. SRP had previously indicated that this restriction would not apply at the dry cleaners and car wash. The District did obtain a clarification from SRP that they would allow temporary construction impacts within the O&M road limits, such as excavation layback, etc.

The District consultant indicated that there would be one residential relocation required under the current project design. This is a small shed that is presently serving as a residence. SRP believes that relocation of residents to accommodate the project shouldn't be discriminatory; i.e., relocation of a resident's fence encroaching upon SRP right-of-way should not be viewed "easier" and more acceptable than relocating a business building or residential home encroaching on SRP right-of-way. SRP said that this is also their understanding of the Town Manager's position on this issue.

Mike Ellegood asked if, because of the political turmoil that will be created if SRP's decision causes the project to be discontinued or downsized, SRP would consider financially participating in an alternate solution. He suggested purchasing of right-of-way for interceptor drains in street alignments to the west of the current project. Paul Cherrington suspected that SRP would not have sufficient justification to so participate. Steve Doncaster stated that it would be appropriate for SRP to dedicate funding to remove encroachments in canal right-of-way, independent of the considerations of this project. He stated it is, in fact, SRP's obligation to manage the canal right-of-way, including removing encroachments.

The District stated that in developing a project of lesser protection, it may still be necessary to include a design element within the SRP right-of-way, and possibly within the O&M road limits. To this issue, SRP's response remained unchanged, as to no features within the O&M road limits.

The meeting concluded with a request to SRP to put their decision in a letter to the District.



*Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, Arizona 85009
(602) 506-1501
FAX: (602) 506-4601*

DATE: July 5, 2000
TO: File
FROM: Don Rerick, Project Manager
SUBJECT: Guadalupe Drainage Improvements Project – Meeting Summaries for Meeting with the Town Staff on June 27, 2000 and Council Working Session on June 29, 2000

The following is a summary of notes taken at the meeting with Town staff on June 27, 2000.

Attendees at the meeting were Mike Shimkus, Mary Hoy, Scott Ogden, Dan Marjanek, Tom Johnson, Chris Perry, Don Rerick, Terri Leija of Supervisor Wilcox's office. Action items are denoted by **.

1. The 10-yr. storm drain concept and basin sizing was reviewed. The potential excess property identified at the north and south basin would be auctioned or offered to the Town for purchase. Present expected cost is about \$100,000/acre. And the Town would have to purchase at fair market appraised value.

** A decision is required on the north and south basin configuration to use; kind and gentle or steep and deep.

** A decision is required on whether to pursue the Batoua Basin site on the east side of the Highline Canal, reducing project costs to convey drainage to the north basin. This basin site is in Tempe.

** If the Batoua Basin is to be used, then the project Resolution must be amended and the IGA Amendment in place so that the FCD can acquire ASAP.

2. Reviewed proposed street improvements consisting of reconstructing portions of Calle Vaou Nawi.

** The TOGuadalupe and Pentacore (TOG consultant) believe they can identify enough C&G and sidewalk improvements to expend the minimum CDBG funds required by December 15, 2000.

3. It was agreed that Sverdrup and Pentacore will need to work together in the final development of the 10-yr. concept and needed street improvements. This is necessary to ensure the storm drain system functions to its fullest while avoiding unnecessary rework of the planned street improvements.

4. The 10-yr. system design would account for as much future C&G improvements planned by Pentacore as possible. It may be possible for some improvements to be done with the storm drain project. Funding of these additional improvements must be worked out.

5. Reviewed the potential cost savings to go from the 100-yr. to the 10-yr. system. The FCD pointed out again that FCD funds can only be expended on flood control improvements.
6. ** The Town will attempt to identify CDBG and other funds that may be available for use to fund other street improvements with this project.
 - ** This would be memorialized in the IGA Amendment.
 - ** The standard IGA paragraph indicating project partner request for improvements that are funded by that partner should also be included in the IGA.
7. ** FCD staff need closure from FCD management and the Supervisor's office regarding what financial role MCDOT and/or SRP might play in this project.
8. If agreement is reached at the TOG Workshop on June 29 to proceed with the 10-yr. system, then the IGA amendment process will begin, revising all three project IGA's.
 - ** Need to meet with COTempe, SRP and the TOG to develop content.
 - ** May be able to take the IGA Amendments to the FCAB in August, but probably not until September.
 - ** In meetings with COT and SRP, need to mention the possible need for the Batoua Basin and O&M access along the canal and an undercrossing of the canal.
 - ** In meetings with SRP, must revisit the potential need for use of SRP R/W for a much smaller grader ditch along the southerly portion of the project.
9. The Amendments must then be taken to the BOD.
 - ** Timing of this action will require input from Supervisor Wilcox's office.
 - ** Plan now is to run the paperwork in parallel with the FCAB action and then proceed to the BOD once success at the FCAB is achieved.
 - ** Amendments would likely go to the BOD in October.
10. The FCD reminded the Town of the need to enforce drainage regulations for the construction and maintenance of retention basins. If such basins are to be accounted for in the hydrologic model, then the basins must remain in perpetuity.
11. The FCD consultant will make recommendations to the Town regarding reducing and/or eliminating one or more of the basins already planned in the Town new development as result of the project design.
12. The expectation is that the June 29 Working Session at the Town will result in a consensus to move forward with the 10-yr. concept. Then the process to move forward with IGA Amendments will begin. The re-scoping and man-hour renegotiations process will begin once we are certain of success with the IGA Amendments.

The following is a summary of notes taken at the Council Working Session on June 29, 2000.

Attendees included the Mayor and five Council members, Town Manager and Assistant Town Manager, District staff of Don Rerick and Joe Munoz, District consultant, Town consultant, and one citizen. The discussion points for the working session were as follows:

1. REVIEW THE 10-YR SYSTEM LAYOUT.
 - STORM DRAIN ALIGNMENTS
 - BASIN MODIFICATIONS; K&G OR S&D
 - BATOUA BASIN CONCEPT
 - SALE/AUCTION OF EXCESS BASIN PROPERTY

2. REVIEW SUGGESTED STREET IMPROVEMENT AREAS ALONG CALLE VAUO NAWI; CROSS SLOPE PAVEMENT WITH SINGLE C&G.
3. COORDINATION BETWEEN PENTACORE AND SVERDRUP FOR THE PLANNED C&G AND SIDEWALK IMPROVEMENTS IN CONCERT WITH STORM DRAIN CATCH BASIN IMPROVEMENTS.
4. USE OF CDBG OR OTHER TOWN MONIES ON THE PROJECT FOR ADDITIONAL STREET IMPROVEMENTS?
5. MCDOT AND/OR SRP PARTICIPATION IN THE PROJECT?
6. AMENDING THREE PROJECT INTERGOVERNMENTAL AGREEMENTS, AND POSSIBLY THE RESOLUTION.
7. REVISE S.O.W., NEGOTIATE REVISED FEE, PROCESS CHANGE ORDER AND BEGIN 10-YR. DESIGN WITH ASSOCIATED STREET IMPROVEMENTS.

The session began with an introduction by the Town Manager as to the reason for the session and a brief history of the project to date. The District Project Manager, Don Rerick, then presented a project history and specifically the refinement of the project from a 100-yr. to a proposed 10-yr. system. The District Project Manager then made a presentation of each of the discussion points in order using an aerial map board and various handouts. Each Council member was provided copies of the handouts. Some of the comments made and questions asked along with responses were:

1. The design team needs final direction on whether or not to proceed with the revised 10-yr. concept. And, direction is needed from the Town as to the type of basins to design; kinder and gentler or not.
2. The Town Manager stated that the Council would be asked to approve a motion on July 6 in favor of moving forward with the 10-yr. concept.
3. It was asked if the excess land that might be available by reducing the basin sizes could be "given" to the Town. The District explained that this could not be done. A public auction process must be utilized for the disposal of such District owned property. However, the Town would be given the first right of refusal, being able to purchase the property at fair market value, determined by three appraisals.
4. The impacts along the Highline Canal were discussed. Specifically, the District noted that the impacts would be much less with the 10-yr. system. In fact it may be possible to avoid all impacts except for those within the SRP encroached area. This would be determined exactly as part of the final design.
5. One Councilwoman was concerned that Tempe might object to the need to amend the IGA with the City. The District stated that it did not believe this would be a problem. And, the Town Manager mentioned that he too felt this could be done without difficulty.
6. The question was asked if there would be any savings in total project costs in going from the 100-yr. to the 10-yr. system. The District explained that there would be some savings. The Project Manager, the District Public Involvement Officer, and the Town Manager emphasized the need to be able to show a cost savings to the District. This will also be necessary in order to facilitate the approval of the IGA Amendments by the Advisory Board and the Board of Directors.

7. The question was asked whether the savings could be "funneled" into the purchase of the excess basin property. The District responded that this could not be done.
8. It was mentioned numerous times that the 10-yr. system will be a better project for the Town, providing more direct benefit to the citizens.
9. The total project estimated cost of about \$7,750,000 for the 100-yr. system was revisited to explain to the Council how the project had grown in cost.
10. Some Council members were concerned about loosing the project if it is changed to a 10-yr. system. Would the Board of Directors approve such a change. The District mentioned that this is always a possibility. The Town Manager indicated that Town and District Management, as well as some of the Supervisors, have been working to address this concern. And, the District has approved and constructed other 10-yr. system projects. Part of the concern though is the issue of cost share, in which the Town's cost share is zero percent.
11. The question was asked that if the project was not approved, is it dead. The District stated that the Town could always resubmit the project through the District prioritization process at some point in the future.
12. The Project Manager stated that the amended Intergovernmental Agreements could likely go before the Advisory Board in September, followed the next month by presentation to the Board of Directors for approval.
13. There then followed some discussion with the Town's consultant regarding the sidewalk project and the CDBG grant monies. That discussion concluded with agreement that the Town would likely be able to expend the required funds by the December 15, 2000 deadline.

The meeting went very well, with a good presentation and numerous good questions asked by the Council. Though the Council could not vote an approval of the change in project concept, there were no objections voiced by the Council.

KICKOFF MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Flood Control District
AND DATE: November 20, 2000; 1 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Amir Motamedi, FCDMC
Bob Stevens, FCDMC
Chris Perry, FCDMC
Mark Johnson, Town of Guadalupe
Antonio Figueroa-Iturralde, Tetra Tech, Inc.
Bob Gooch, Salt River Project
Dennis Peltz, McCloskey – Peltz, Inc.
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Project Kickoff Meeting 10-Yr Design

SUMMARY:

The above participants met to discuss the above project. Mr. Don Rerick opened the meeting and asked each individual to introduce them selves. Mr. Rerick also gave Sverdrup a verbal notice to proceed with the project.

Mr. Rerick reviewed the changes to the project from the 100-year to the 10-year design. This included the downsizing of the north and south basins and the inclusion of a storm drain system within the streets to the east of Avenida Del Yaqui and a shallow collector ditch along the Highline Canal. Mr. Olbert identified the basic alignment of the storm drain system and two storm drain alternatives involving the North Basin and the Tempe Basin. Mr. Olbert also identified traffic impacts upon the residences living along Calle Vauro Nawi south of Guadalupe Road because the street is narrow and there is only one way in and out of the area.

Mr. Johnson mentioned that the curb and gutter project is now under construction. The town is planning for a second curb and gutter project for next fall. Mr. Rerick asked if the project could begin earlier so as to not conflict with the construction of the flood control project. The flood control project should be under construction by December 2001.

Two major issues yet to be decided involves the construction of a fourth retention basin (Tempe Basin) versus the construction of a new 66-inch diameter storm drain line west on Calle Pitaya to Avenida Del Yaqui and north on Avenida Del Yaqui to the Highline Canal, and the construction of a pump station

for the South Basin or a dry well system to evacuate the basin.

Major Tasks involved with the Tempe Basin include:

- Check out the piles of dirt deposited on the site (by FCDMC).
- Review the berm height versus the ADWR dam criteria.
- Potential trash and standing water trap against concrete block fence along east side of site.
- Height of berm versus the height of the concrete block fence (privacy issue).
- Emergency spillway at the northeast corner of the basin. Need to maintain the historic path of the 100-year storm flow.
- Maintenance access to the Tempe Basin by the town would be along the Tempe side of the Highline Canal. This is similar to the access needed to maintain the drainage ditches and storm drain system along Guadalupe side of the Highline Canal. Possible option is a culvert crossing to allow access from Guadalupe.
- The Tempe Basin would require a pipe crossing under the canal. Options include: Jack and bore under canal versus open cut during "dry-up period". SRP to provide design criteria and details to Sverdrup. Mr. Gooch said the north branch of the Highline Canal provides water to flower farms north of South Mountain all year. However, water usage is much lower in December so canal could be temporarily piped.

A meeting with the Town, SRP, and the City of Tempe will be needed in the near future to discuss the proposed Tempe Basin. The meeting with the Town and SRP was tentatively scheduled for December 13th at SRP. Mr. Rerick will contact the City of Tempe to schedule a meeting. The FCDMC will contact the owner of the parcel (Tempe Basin) to obtain right of entry for environmental, archaeological, and geotechnical surveys. Sverdrup to develop a pro and con list for the basin. Mr. Gooch said he would provide a culvert crossing detail and bridge design criteria to Sverdrup.

The South Retention Basin was reviewed. Issues discussed included:

- Potential groundwater contamination. Mr. Stevens reviewed their on-call consultant's study of the issue and concluded that the south basin and any drywells would not cause the migration of hazardous materials into the SRP irrigation well. A final report will be provided in two weeks.
- SRP expressed concern about the location of the drywell. SRP preferred the drywell be placed as far to the north in the South Basin as possible.
- Mr. Olbert said that the configuration of the South Basin needs to be reviewed with the town to maximize the resale of excess land. This would take into consideration the existing FEMA flood limits adjacent to the canal and SRP's desire to keep any drywells away from their irrigation well site.

The work along the Highline Canal was discussed.

- All work paralleling the canal will be kept outside the 12-foot wide O&M Road.
- A graded swale/ditch and storm drain pipe will be placed outside the 12-foot wide O&M Road. The drainage work will attempt to avoid encroachments into the SRP right-of-way to minimize project costs.

- The most significant encroachment issue involves the shed located approximately 1000 feet north of the South Basin. The design approach to this site needs to be resolved quickly.

Brad Olbert reviewed the Preliminary Project Schedule. A copy of the schedule was distributed to each attendee. In general, the Bi-weekly Coordination Meetings were set up twice a month with some of the meetings combined with the PAAC Meetings and the Initial Site Visit. Most of the Coordination Meetings will be held at Sverdrup's office, located in Tempe, on Wednesday mornings starting at 10 am with some exceptions. Project meetings should avoid the 3rd Wednesday of each month to reduce schedule conflicts. The initial site visit was scheduled for 8:30 am on Tuesday the 28th with attendees to meet at the old Town Hall. PAAC meetings will begin in January with the first meeting to be combined with a Town Council Study Session. The town will identify the town and citizen members for the PAAC. PAAC meetings will be held from 6 to 8 pm at the town hall.

The first bi-weekly coordination meeting is scheduled for December 13th to be held at SRP. Mr. Gooch will make the arrangements for the location.

The first Public Information Meeting was tentatively set for January 24th. The council meets on the 2nd and 4th Thursday of each month.

Mr. Olbert will e-mail a revised project schedule to Mr. Rerick on Wednesday (11/22) along with a list of the previous PAAC members.

Sverdrup submitted an invoicing schedule to Mr. Rerick. Allowances were not included in the totals. The FCDMC will provide a digital file of the aerial photo to Sverdrup for use in the public meetings.

Please review these meeting minutes and call me (480-303-9799) if you have comments.

Signed:



Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

SITE VISIT MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Flood Control District
AND DATE: November 28, 2000; 8:30 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Frances Osuna, Town of Guadalupe
Mark Johnson, Town of Guadalupe
Jim Reicher, Town of Guadalupe
Bob Gooch, Salt River Project
Dennis Peltz, McCloskey – Peltz, Inc.
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Project Field Visit, 10-Yr Design

SUMMARY:

The above participants met at the old Town Hall to discuss key issues about the project and make a field visit to review the issues on site. Mr. Don Rerick opened the meeting with introductions and briefly reviewed the project.

Mr. Rerick said that the project would affect traffic on Avenida del Yaqui and Calle Vauo Nawi and asked if the town had any constraints for those roadways. Mayor Osuna and Mr. Johnson indicated that while maintaining one-lane of through traffic in each direction would be the best situation, a full closure of Avenida del Yaqui would not be a problem. The Guadalupe Road Bridge across I-10 will permit routing of some of the traffic around the construction work on Avenida del Yaqui. Mr. Olbert said that Calle Vauo Nawi also poses challenges to traffic, as the roadway is very narrow. A temporary closure of the roadway will be needed during construction. Families may have to park their cars away from their homes. One possibility would be to open up access to Avenida del Yaqui along the Mineral Street alignment to Calle Vauo Nawi. The town will look into this as a possibility.

Mr. Rerick described the upcoming PAAC Meetings as an opportunity for the town to provide input regarding the aesthetics of the proposed retention basins. Mr. Rerick suggested that past members from the PAAC, which included council members and citizens, be invited to the upcoming PAAC committee meetings. The first PAAC meeting has tentatively been scheduled for January 4th, 2001 as a joint working session with the Town Council.

The meeting adjourned from the meeting room to visit various locations along the project. The first location was along the north side of the North Basin. Mr. Rerick indicated that if the outfall pipe for the

basin passes under the ADOT noise wall, that we should include replacing a portion of the wall in the work. Sverdrup to contact ADOT to coordinate the design of the outfall connection. Also, an ADOT permit will be needed to work in the ADOT R/W. The FCDMC will take the lead on the permit.

Mr. Rerick also would like input from SRP on whether or not the 66 or 48-inch storm drain from Avenida del Yaqui into the North Basin could be located parallel to the Highline Canal pipeline within the SRP right-of-way. It was noted that the storm drain line will need to be located between the 66-inch irrigation line and 12 kV power poles located near the south edge of the R/W. Mr. Gooch will check with SRP staff on this issue. Mr. Peltz asked if the 12 kV line could be placed underground. Mr. Johnson said that the Town of Guadalupe had insufficient funds in their SRP aesthetic fund to do the work.

Sverdrup to determine the dry-well needs in all of the retention basins and designing for the first flush volume. Bedrock may affect the positioning of the North Basin drywells.

The Town of Guadalupe would like for La Lomita to remain unaffected during and after the project is completed. The FCDMC will determine what its responsibilities are regarding this feature.

Mr. Olbert asked since the north and south basins are being downsized significantly, did the FCDMC want portions of the existing fence surrounding the project site to remain or be removed? It was Mr. Rerick's opinion that the existing fencing should remain in its current location until the land is sold. He will check with others at the FCDMC.

The meeting moved to the south inlet area located along Calle Cerritos, south of the North Basin. The approach at this location was to construct a shallow channel from the street northward discharging into the North Basin. The channel will follow the flow path around La Lomita. In the future, after the land has been sold to another party, the channel can be either maintained or placed in a pipe underground. This will be the owner's option. Mr. Rerick said that the plans will show a do not disturb limit around La Lomita.

The meeting moved to the proposed Tempe Basin site located east of Avenida del Yaqui and north of the Highline Canal. The fencing requirement at this site needs to be reviewed with the Town. Chain link fencing tends to be a trash trap and can be unsightly. The site will need to be fenced because the sideslopes of the basin will be steeper than 4 to 1. The FCDMC will obtain a right-of-entry in order to have cultural, environmental, and geotechnical work done on the parcel. Property may be owned by SRP, per sign on gate. An existing 12 kV power pole on the parcel with transformer will need to be removed. Mr. Rerick asked if the alley along the east side of the parcel is dedicated as an alley. The FCDMC will check the status. Mr. Peltz asked if the City of Tempe would desire a bike lane along the alley to the north of the parcel. It would serve as a connection to the adjacent subdivision. Mr. Rerick said the bike lane would be outside present scope of work.

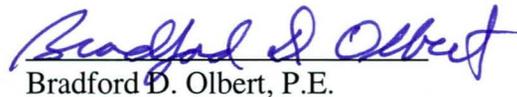
The meeting moved to the proposed South Basin site located at the south end of Calle Vaou Nawi. A storm drain line is proposed for Calle Vaou Nawi. Construction will be difficult because the street is narrow and property owners have constructed improvements close to the edge of the pavement. A second access to the dead end street was looked at. The aerial showed Mineral Street stopping just short of the parcel owned by the FCDMC. If Mineral Street could be extended, then direct access to Avenida del Yaqui would reduce the construction activity on Calle Vaou Nawi, a residential street. The Town of

Guadalupe and the FCDMC will research if R/W for Mineral Street exists. A possible TCE could also be obtained through adjacent parcels if necessary. Mr. Olbert suggested that the South Basin be reconfigured to follow the Highline Canal more closely to be able to position the drywells further away from the SRP well site and include the FEMA floodway within the basin limits. This would help maximize the resale value of the rest of the parcel. Sverdrup to develop a concept to present at the Bi-weekly meeting.

The meeting moved to the proposed intercept ditch and storm drain located along the west side of the Highline Canal, south of Guadalupe Road, and north of the South Basin. Sverdrup will develop concept plans along the canal early to determine what encroachments and power poles will be affected by the project. Sverdrup to prepare a concept for the SRP coordination meeting. The top of the west bank along the Highline Canal varied along the section of the canal at this location. A question arose as to where the 12 foot O & M road limit was measured from. Mr. Gooch will check with SRP staff on this issue. Sverdrup will proceed with the limit at the edge of the concrete lining for the concept plans. This edge is located at a fixed point. Mr. Gooch said that the power poles along the ditch might have to be braced or relocated in order to construct the ditch and storm drain. Sverdrup will investigate the need for such bracing. He also said that using the O & M Road to construct the improvements along the canal was acceptable. Mr. Johnson agreed that the Town will look into removing the shed encroaching within the SRP R/W. Mr. Reicher requested that the SRP R/W be staked along the canal.

Please review these meeting minutes and call me (480) 303-9799 if you have comments.

Signed:



Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

Bi-Weekly MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION: Salt River Project Conference Room

AND DATE: December 13, 2000; 8:30 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Mark Johnson, Town of Guadalupe
Antonio Figueroa-Iturralde, Tetra Tech, Inc. (Town of Guadalupe Engineer)
Bob Gooch, Salt River Project (SRP) Water Engineering
Gregg Elliot, SRP Water Quality
Linda Taylor, SRP Land Department
Matt Streeper, SRP Land Department
Al Dickie, SRP Land Department
Cheryl Zittle (for Mike Patrick), SRP Water Delivery
Paul Cherrington, SRP Water Engineering and Transportation
Rich Haas, SRP Groundwater Design
Dennis Peltz, McCloskey – Peltz, Inc.
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Bi-Weekly #1, 10-Yr Design

SUMMARY:

The above participants met at Salt River Project to discuss key issues about the project. Mr. Don Rerick opened the meeting with introductions and briefly reviewed the project history and the elements of the project. Mr. Rerick mentioned that SRP would be invited to all coordination meetings. Mr. Gooch has been serving as the monitor for SRP. The purpose of the meeting was to explain the revised project and to get feedback and direction from SRP on several design issues.

Mr. Olbert handed out the project design schedule and presented a brief review of the schedule.

Mr. Olbert reviewed the two drainage concepts for the north drainage area. A handout was distributed which identified costs, volumes associated with the two concepts. The first concept has a 10-year design for a smaller North Retention Basin and associated storm drain needs. The second concept identifies a second additional retention basin site (called the Tempe Basin) located north of the Highline Canal to the east of Avenida del Yaqui to contain a portion of the runoff from the north drainage area. This allows the North Retention Basin to be further reduced in size and eliminates a lengthy section of large diameter storm drain. Two handouts were distributed which itemized the basin/storm drain costs and differences between the two concepts. The construction cost for the North Basin concept and associated

storm drain system was \$1,460,000. The construction cost for the two retention basin concept was approximately \$780,000. The difference between the two concepts was approximately \$680,000. SRP is the owner of record on the Tempe Basin site.

The configuration of the Tempe Basin was reviewed. The basin illustrated will hold the 10-year storm volume. The basin is triangular in shape matching the configuration of the lot with a maintenance road around the perimeter of the basin, 3:1 sideslopes, drywells to dispose of the retained water, and a spillway at the northeast corner. Storm flow into the basin will be conveyed under the Highline Canal using a 42-inch ductile iron pipe. The basin has one foot of freeboard from the 10-year water surface elevation to the spillway. A portion of the flows in excess of the 10-year will flow through the basin and out the spillway.

The basin is located adjacent to the historic path of the 100-year flow. The low spots in the SRP O&M road are located near Avenida del Yaqui and just south of the SRP parcel. The historic path followed the block wall adjacent to existing alleys next to the site. The 100-year volume in excess of the 10-year volume would flow around the site through two existing alleys. It was emphasized at the meeting that the profile of the east O&M Road will not be changed by the project. This will allow overtopping of the east bank to occur at the historic locations.

The cross section of the inlet pipe, basin, and spillway were reviewed. Mr. Gooch provided an SRP standard that showed 1.5 feet as the minimum clearance that is needed from the pipe to the lining. The top of the inlet pipe would be approximately 2 feet below the concrete liner for the canal. The bottom of the basin would be about 12 feet below the spillway, and the spillway has been set at a foot below the canal bank. Two options to install the pipe under the canal include jack and bore and open trench through the canal. The contractor would be encouraged to do the work during the off-peak period for flow in the canal (winter months). It was pointed out that this canal does not have a dry-up period, but the flows are reduced. SRP will provide a table showing the canal flow rates to Sverdrup. Mr. Rerick suggested that both options be shown in the plans and specifications. Irrigation flow information will be listed within the specifications and let the contractor decide which method to use.

It was pointed out by SRP that they have been looking at the site to construct a well in the near future. Mr. Cherrington said they could give the FCD a decision by Friday (12/15) if they are intending to use the site for a well. Mr. Olbert said that if the well can be located in the northwest or southeast corner of the site the well might not interfere with the proposed retention basin. Mr. Haas said SRP would need at least a 50' by 60' area. The site would include a pipe laydown area. Mr. Rerick said the District and Sverdrup need to meet quickly with the SRP's groundwater staff to see if the well can be located on the site with the proposed basin. Mr. Gooch will set up meeting with Sverdrup. Mr. Stough asked if SRP was satisfied about the use of dry wells to drain the basin. Mr. Haas said that SRP would like the dry wells as far away from their production well as possible, but the distance is controlled by state regulations. Sverdrup will contact ADEQ to find out what the state requirements are. SRP Lands Department will immediately begin sending around an internal clearance memo for the site. They expect the process to be completed by early January.

The basin is located approximately 500 feet from Avenida del Yaqui and the District would like to use the SRP O&M Road to construct the basin. This would avoid having to have construction trucks pass nearby residences and apartments. This would be similar to the agreement the District has with SRP to construct the intercept ditch located along the west side of the Highline Canal. Ms. Taylor said that

SRP has a "no vehicles" policy. The District will need to prove its need to use the canal. Mr. Rerick said the District would provide the necessary documentation to prove its need for construction.

Mr. Rerick said that the Town of Guadalupe would need an IGA to maintain the Tempe Basin and ditches along the Highline Canal. Mr. Cherrington said that SRP must give a written variance to the "no vehicle" policy and that the maintenance route must be well defined and not vague to allow free usage anywhere along the canal system. Ms. Taylor said that the District or Town must also provide annual insurance coverage to SRP as an additional insured. There will also be an annual license renewal fee for the permit.

Mr. Olbert reviewed briefly the concept for the Central Basin. The discharge from the basin will be conveyed by an unused tailwater pipe into the Western Canal. The Town of Guadalupe will operate the valve controlling the flow into the canal. The Town must receive permission from SRP prior to release the water into the canal. The procedure for the Town to follow will be itemized in an O&M manual, along with access information and the SRP contact person's phone number.

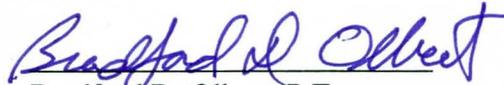
Mr. Olbert presented an overview of the South Retention Basin. The configuration of the basin for the 10-year design will be based on several constraints, such as: maximizing the resale of unused property, the FEMA floodplain limit, the area where some elevated concentrations of toxaphene need to be removed, and locating drywells at the north end of the proposed retention basin. The issue on whether to use drywells or a pump station to evacuate the south basin will be decided on by the Town Council. Dry wells were acceptable to SRP as long as they are kept toward the north end of the basin. If the pump station is used, then 5 to 10 cfs will be pumped into the South Branch of the Highline Canal and discharged into the ADOT Pit. The Town will operate the pump station and a discharge structure located south of Warner Road that will meter out the same flow into the ADOT Pit. A permit to use the canal to construct and maintain the outlet structure will be needed by the District/Town. Operation of the pump structure and discharge structure will be covered in the O&M manual. Flows greater than the 10-year design flow will pass into the Highline Canal along the east edge of the retention basin. The overflow will be located at the low point in the canal bank. The design will not change existing conditions across the canal. The basin design water surface elevation will be kept below existing grade. Mr. Cherrington said that SRP would like to review the spillway plans.

Mr. Olbert then reviewed the initial concept of an intercept ditch adjacent to the Highline Canal. The ditch provides a means to collect the 10-year flows before they reach the canal. A 24 to 30-inch pipe would be installed below the ditch to convey the flows into the retention basins. Three copies of the initial concept were distributed to SRP showing the location of the ditch relative to the SRP right-of-way and the O&M Road. The proposed work would affect a large number of encroachments into the SRP right-of-way as well as a few 12kV power pole locations. Al Baisel is the new SRP coordinator for power distribution lines for the area. Sverdrup to contact Mr. Baisel to get input on relocating the poles. The Town of Guadalupe will need to resolve the "shed" encroachment located 1,150 feet south of Guadalupe Road. The concept would not affect the driveways of the two landlocked parcels or the junkyard parcel also located south of Guadalupe Road. Mr. Olbert said that since the criterion is to stay out from under the O&M Road, it would be necessary to locate the road. Since the O&M Road meanders approximately 1 to 3 feet from the edge of the canal lining, it will aid the preparation of the construction plans to set a distance from the edge of the canal lining to locate the O&M Road. Mr. Gooch said he would like to visit the site to determine what representative distance can be used from the canal to the O&M Road. SRP staff will review the concept plans.

Ms. Taylor said that according to the IGA agreement, the O&M license agreement for the project is between SRP and the FCD on behalf of the Town of Guadalupe. Mr. Rerick will review the SRP's IGA agreement with the District staff and get back with Ms. Taylor. The Town may need to include both the District and SRP as additional insureds.

Please review these meeting minutes and call me (480) 303-9799 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Salt River Project Conference Room
AND DATE: December 14, 2000; 2:00 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Bob Gooch, Salt River Project (SRP) Water Engineering
John Biggs, SRP Groundwater
Bob Pane, SRP Groundwater
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
SRP Well Site Meeting, 10-Yr Design

SUMMARY:

The above participants met at Salt River Project to discuss a potential production well at the proposed Tempe Retention Basin site.

The Tempe Retention Basin layout was reviewed with respect for the 50' x 60' area needed for the well. The northwest corner was identified as the logical location for the well. This will not conflict with the proposed retention basin.

SRP wants to construct a new production a new well at the site because the previous owner had a well at this location, so a permit for a new well permit will not be required. SRP will schedule the site to be drilled and tested by next April to determine if the site is adequate for production. The installation of the permanent well equipment is scheduled for May 2002 (if the well test is adequate). SRP could possibly move the schedule up a year by switching with another scheduled well.

Mr. Rerick stated that the Guadalupe Drainage project is scheduled to start December 2001 or January 2002. If the well construction is started in 2002 then there will be a conflict between Contractors that will need to be identified in the supplemental general conditions. It would be better if the well could be completed before the start of the Guadalupe Drainage Project.

The FCD and SRP will work on getting a legal description of the SRP parcel to use preparing the construction plans.

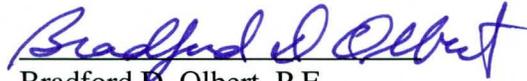
After a storm, the retention basin will be evacuated using dry wells. Sverdrup will contact ADEQ concerning design criteria for locating, permitting and installing a drywells. Keeping drywells a minimum of 100 feet from the well site should not present a problem. The District will apply for the

permit, but the drywell ownership will be transferred to the Town of Guadalupe.

The District will schedule a meeting with the City of Tempe next to discuss the proposed retention basin. Show Tempe that the basin will ease flooding problems in that part of the town. Sverdrup will provide a spreadsheet showing pros and cons of the basin. Landscaping issues will also be important. Sverdrup to take pictures of the site for the meeting.

Please review these meeting minutes and call me (480) 303-9799 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Sverdrup Civil Conference Room
AND DATE: December 21, 2000; 2:00 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Andy Goh, City of Tempe
Mark Johnson, Town of Guadalupe
Tom , Town of Guadalupe
Dennis Peltz, McCloskey-Peltz, Inc.
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
City of Tempe Meeting, 10-Yr Design

SUMMARY:

The above participants met at Sverdrup Civil to discuss the proposed Tempe Retention Basin site. The purpose of the meeting was to review the revised project with the City of Tempe and get feedback and direction from the City on specific design issues.

Mr. Rerick reviewed the project history and the project elements for the revised 10-year design. Mr. Olbert presented the project design schedule. Near term events include a public meeting the last week of January and 30% construction plans at the end of February. The project completion is September 17th.

Mr. Olbert reviewed the flow pattern for the project area with a detailed explanation of the 100-year flow pattern along the Highline Canal between Guadalupe Road and Avenida del Yaqui. Attendees were given a handout that showed HEC-1 results between existing conditions and the proposed drainage improvements. The proposed drainage facilities will contain the 10-year storm flows at four retention basin sites. Each basin will have approximately 1 foot of freeboard within the basin above the 10-year water surface elevation. At the proposed Tempe Retention Basin site, the estimated flows are reduced from 332 cfs (existing conditions) to 0 cfs (proposed facilities). For the 100-year event, the estimated flows are reduced from 664 cfs (existing conditions) to 213 cfs (proposed facilities). For storms greater than the 10-year event, flow paths will follow their historic pathway. The proposed drainage facilities would also delay the time of concentration for the 100-year storm by approximately 0.5 hours. Sverdrup will submit a drainage report to the FCD and COT for review after the 30% submittal. Mr. Goh asked that the project plans and reports be submitted to him for review.

The City of Tempe will provide the water service (meter) for the basin landscaping. Mr. Peltz will

coordinate with the City to spell out the process, procedures, and costs for the contractor relating to the water line tap, the service line and the meter in the specifications. The COT Planning Department would handle landscaping review for the Tempe Basin. Mr. Peltz will set up a meeting with the City to receive their input. The City most likely will not accept chain link fencing. The FCD wants an open view to the basin for security reasons (no concrete block). The City has required wrought iron on other retention basin designs recently.

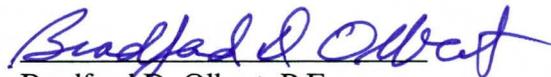
Other issues that need to be reviewed with the City include:

- Working hour restrictions
- Haul permit (for projects with haul volumes greater than 5,000 cubic yards)
- Access to the basin via existing alley
- Posting requirements

For the next public meeting, be sure to deliver flyers to City of Tempe property owners adjacent to the basin and the canal. Sverdrup will do direct mailing to property owners near the proposed Tempe Basin. The announcement will include a drawing of the project.

Please review these meeting minutes and call me (480) 303-9799 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION City of Tempe Public Works Conference Room
AND DATE: January 2, 2001; 3:00 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Andy Goh, City of Tempe (Engineering)
Steve Venker, City of Tempe (Development Services)
Jim Bond, City of Tempe (Engineering)
Thomas Morales, Town of Guadalupe
Dennis Peltz, McCloskey-Peltz, Inc.
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
City of Tempe Meeting, 10-Yr Design

SUMMARY:

The above participants met at the City of Tempe to discuss the proposed Tempe Retention Basin site. The purpose of the meeting was to review the revised project with the City of Tempe and get feedback and direction from the City on specific design issues.

Mr. Olbert reviewed the project history and the project elements for the revised 10-year design. Mr. Rerick presented the items as they related to the Tempe Basin design. Mr. Rerick requested information from the City as to landscaping, fencing, and water service requirements.

Mr. Bond said that since the proposed basin is so deep that the site will have to be well secured. The site must be graded to retain the 100-yr, 2-hr storm water falling on the parcel. So if the retention basin is to contain the 10-year storm volume from Guadalupe, then the storm water volume from the parcel must be added to that volume.

The term "well secured" was defined as having fencing (chain link or wrought iron) six foot in height surrounding the basin. The preference being wrought iron or ornamental iron because it is harder to climb over (especially if the top cross rail is located 2 feet below the top of the fence) and to cut.

Irrigation water service should be located in the Town of Guadalupe. Contractor will pay the installation fee with the work done by the City. Information needs to be included in the plans and specifications. On the plan sheet show that the tap, line to meter, and meter will be set by the City of Tempe. Protect meter and check valve using bollards and wire cage. Two sets of plans will need to be submitted to Development Services. Contact Jim Bond. He will walk it through the review process. Include on the

plans the drainage calculations. Show that the basin will contain the 100-yr 1-hr storm volume from the parcel plus the 10-year volume from the watershed. Submit two copies of the entire drainage report to the City as well.

The fence for the basin will enclose the entire site minus the area that SRP needs for their well site. Access to the basin for maintenance will be from the canal side of the site. The east alley must be maintained at a minimum of 20 feet wide. The basin perimeter fence should be placed as necessary to maintain the minimum distance. Don't place the fence parallel with neighboring block wall. End the basin fence at the end of the adjoining fence (block wall).

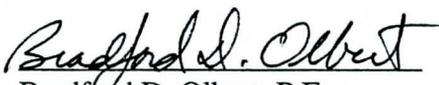
The concept plan for the retention basin was based on 3 to 1 sideslopes on the outside of the basin and 2 to 1 sideslopes on the inside of the basin. Aggregate mulch will be used for erosion control on the inside of the basin and decomposed granite on the outside. The basin sideslopes and use of aggregate was acceptable by the City.

An emergency spillway was planned for the north edge of the basin. Overflow would flow into the El Paso Natural Gas (EPNG) easement. This is the current flow path for the storm water overflowing the Highline Canal. Mr. Goh suggested an option is to keep the basin high on the north and east sides allowing the overflows to flow around the basin into the EPNG easement on the north and the alley to the east. Sverdrup will review the option.

The District preferred minimal landscaping around the perimeter and no lighting for the site. The City prefers more trees and less understory (shrubs) for the site.

The City did not anticipate any zoning issues with the retention basin work. However, the City will check if there any zoning changes that are needed. Post meeting response to the zoning issue was that no changes would be needed to construct a retention basin on this site.

Please review these meeting minutes and call me (480) 303-9799 if you have comments.

Signed: 
Bradford D. Olbert, P.E.

Distribution: W7X70300-2B
Meeting Attendees

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Town of Guadalupe
AND DATE: January 4, 2001; 6:00 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Bob Stevens, FCDMC
Joe Munoz, FCDMC
Mark Johnson, Town of Guadalupe
Thomas Morales, Town of Guadalupe
Town Mayor and Council Members
Dennis Peltz, McCloskey-Peltz, Inc.
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Council Working Session and PAAC Meeting

SUMMARY:

The above participants met at the Town of Guadalupe to discuss the project. The purpose of the meeting was to review the revised project with the Council Members and get feedback and direction from the Town on specific design issues and the general configuration of the basins.

The council members discussed which citizens from the town should be chosen to serve on the PAAC. They decided to ask the previous members if they would like to continue serving first, then select replacements for those not wishing to serve.

Mr. Rerick briefly reviewed the project history and the project elements for the revised 10-year design. Mr. Olbert then presented the issue of the pump station versus the dry well concept to evacuate retained water from the south basin. A cost comparison of the two systems was presented. Mr. Stevens with the FCDMC presented information regarding the toxaphene removal and the low potential of migration underground. Mr. Stevens referred to two independent consultant reviews of the toxaphene conditions. Mr. Rerick requested a decision from the Town as to their preference on which system to use for this project. The council agreed unanimously that the dry well system would best meet the town's needs. Mr. Rerick requested of the Town Manager that this decision be memorialized in a letter to the District.

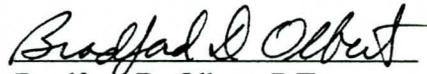
Mr. Olbert presented the current concept of where the storm drain lines will be located within the town to intercept the flows that cross Avenida del Yaqui. The council asked if the storm drain line along the Highline Canal would take any of the land from the two parcels just north of the South Basin. Mr. Rerick responded saying that land takes will not be necessary.

Mr. Rerick prefaced the next topic item by saying that the change in the project concept to contain the 100-year storm to the 10-year storm was based upon reducing the project costs by \$1.3 million and freeing up usable land for development within the town. The land originally purchased by the Flood Control District will be auctioned off to help reduce the project costs. Mr. Olbert and Mr. Peltz then presented the concept of each of the four retention basins. The concept for 100-year design was shown comparing it to the 10-year basin concept. Mr. Peltz then described the aesthetic and recreational aspects of each basin.

The council felt that the south basin should have a jogging path around the perimeter of the basin and enough area at the bottom of the basin for a future basketball court. The central basin will have enough room at the bottom for a soccer practice field. The Tempe basin will not have a recreation element because of the depth and steepness of the sideslopes but will be landscaped with trees along the north, and east sides of the basin. The North Basin will have overlapping areas for a baseball field and a soccer field. The council expressed concern that the reduced size of the basin would exclude La Lomita. The council asked the Flood Control District to adjust the basin configuration to include La Lomita. Mr. Rerick said he would plan to meet with Mr. Ellegood and supervisor Ms. Wilcox to discuss the inclusion concept. Decreasing the land available for auction will reduce the cost savings promised for the 10-year system.

Please review these meeting minutes and call me (480) 303-9799 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Sverdrup Civil Inc. Tempe Office
AND DATE: January 09, 2001; 1:30p

PARTICIPANTS: Lynn Mattson, FCDMC
Dan Stough, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Preliminary Utility Meeting

SUMMARY:

The above participants met to familiarize themselves with the new storm drain layouts and how they affect nearby utilities. Mr. Stough presented 40-scale drawings that show the new storm drain layouts and the existing utilities as reproduced from utility as-built drawings.

Each storm drain alignment was briefly reviewed and suggestions for realignment to avoid certain conflicts were made. Lynn pointed out that the relocation of the 4.5-inch El Paso Natural Gas crossing that was necessary for the former 60-percent plans was more involved than the new crossing at Guadalupe Road.

Mr. Mattson explained the "hot-tap" bypass technique, which should be less expensive than the previous relocation. He also pointed out that the wooden 69-kV poles on the south side of Guadalupe road would cost approximately \$5000 per pole to brace during the storm drain construction.

Mr. Mattson inquired about the size of the storm drain inlets at the corners of Calle Vauro Nawi and Guadalupe Road. Mr. Stough said that the size of the inlets can be reduced because the new storm drain collects more runoff to the west (in comparison to the previously submitted design).

Mr. Mattson stressed that the storm drain layouts need to be in the final locations before the utility agencies will review the plans.

He also made the following suggestions regarding the plans and pot-holing of existing facilities:

- Show the service connections of the sewer, water, gas, and electric to avoid Contractor change orders during construction. He suggested showing the adjacent face of the houses along each street, if at all possible.
- Mr. Mattson said the underground cable TV, electric, and gas lines frequently deviated (sometimes several feet) from the recorded alignments. He suggested using tracers to locate lines parallel to a prospective storm drain alignment. Mr. Stough said that the pot-holing survey hours were not

included to do this. However, if certain storm drains had to be installed near long reaches of parallel utilities, the tracing could possibly be paid for out of the FCDMC on-call fund. Mr. Stough promised to check with Don Rerick and Brad Olbert on this matter.

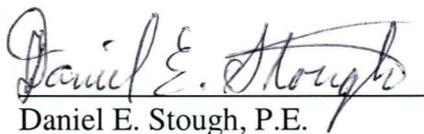
- The 40-scale plans as provided at the meeting would be sufficient for early submittal to the affected utility companies. He said that copies of those plans should be provided to the utility companies at the Utility Kickoff Meeting. This would allow them more time to make estimates for relocations, to determine if other conflicts were possible.
- The utility companies should be urged to begin their relocation designs with the 30-percent submittal plans and submit them back to FCDMC by the 60-percent submittal.
- The 30-percent plans should show the storm drain profiles and existing ground profile line.

Mr. Stough pointed out that the pot-hole information of the potential conflicts must be submitted to SVC prior to the utilities appearing on the profiles. He agreed to prepare a list of utility conflicts, with each storm drain station. The list would also show the state plane coordinates of the required pot-holes. SVC will submit this pot-hole list to Mr. Mattson and Mr. Rerick by January 17, 2001.

Mr. Mattson stressed that the Utility Coordination Meeting will be tentatively arranged for Tuesday, January 30, 2001 at 9:00 AM at the new Sverdrup office. Brad Olbert will provide the new address to Mr. Rerick.

Please review these meeting minutes and call me (480) 303-9799 if you have comments.

Signed:


Daniel E. Stough, P.E.

Distribution:

W7X70300-2B
Meeting Attendees
Don Rerick, FCDMC
Brad Olbert, SVC

Bi-Weekly MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Sverdrup Conference Room
AND DATE: January 10, 2001; 10:00 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Thomas Morales, Town of Guadalupe
Bob Gooch, Salt River Project (SRP) Water Engineering
Dennis Peltz, McCloskey – Peltz, Inc.
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Bi-Weekly #2, 10-Yr Design

SUMMARY:

The above participants met at Sverdrup's office to discuss key issues about the project.

Mr. Olbert handed out the project schedule, reviewed upcoming events and made several revisions.

- Meeting with Supervisor Wilcox on 1/17 to discuss the North Basin.
- Mr. Peltz to meet with Mr. Armenta to set limits of La Lomita.
- Public meeting on 1/31 at the new Town Hall.
- Reset Utility Coordination Meeting to 1/30 (prior to 30% submittal).
- Submit pothole request to FCD by 3/05 with potholes to begin 3/13.
- Schedule a Bi-Weekly Meeting for 1/24, 10 am at Sverdrup.

Review of recent meetings.

- City of Tempe was receptive to the small Tempe retention basin site. Wrought iron fencing needed and must retain 100-year, 2-hour design storm. Mr. Rerick suggested that bollards be placed at strategic locations to protect the fence along the alley.
- Town of Guadalupe, requested low maintenance trees. Mr. Peltz to make up a pallet of trees and shrubs for the town to review. Standard pipe gates will be used at basin access ramps. No perimeter fencing for the South, Central and North Basins. Remnant parcels will be fenced until auctioned off. The dry well elimination system will be used for the south basin in lieu of a pump station.
- Salt River Project will retain enough area at the west end of the Tempe Basin parcel for a future production well. Mr. Rerick said he will check on the status of the right of entry permit.

Miscellaneous Retention Basin Issues were discussed.

- Pipe railing or wrought iron railing will be used on top of pipe headwalls. Bury gabion mattress at end of pipe headwall to minimize erosion. Cover gabion mattress with six inches of soil. Possibly use dewatering pipe from pipe outlet to drywell. Fence along I-10 is a limited access fence. ADOT fence to remain.
- Mr. Rerick requested a letter from the town officially selecting the dry well system over the pump station system.
- Mr. Rerick thought the South Basin will need some tweaking to make it more aesthetic. Suggestions included a strip of land to the west for landscaping, vary toe of slope, put in concrete header for pathway. Keep a minimum of a 12 foot wide drainage easement for the inlet pipe. Town will determine the width of the O&M Road to the basin.
- Mr. Rerick said that for the Supplemental General Conditions (SGC), put in a line item for contractor to obtain traffic control plan and submit for approval by the Town and Tempe.
- The town should attempt to broker the dirt in the basins to help reduce project costs. This is in accordance with the project IGA. Removal of the dirt should stop by the end of the summer before the project is advertised.

Public meeting will take place at the new town hall on January 31st. Sverdrup will make arrangements with Mr. Johnson to view the room at the hall where the meeting will be held. The flyers for the meeting will be distributed throughout the town and a segment of Tempe along the canal on Wednesday the 17th. Mr. Rerick requested that someone from the town be at the meeting to help answer questions from the public.

Sverdrup will meet with Mr. Gooch in the field to determine the location of the 12-foot O&M Road along the Highline Canal at 1 pm on Monday (1/15).

Sverdrup will be moving their office the last week of January to Elliot and Hardy in Tempe.

Please review these meeting minutes and call me (480) 303-9799 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION FCDMC in the Guadalupe Conference Room
AND DATE: January 16, 2001; 9:00 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Dennis Holcomb, FCDMC
Dennis Peltz, McCloskey-Peltz, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Landscape Review Meeting

SUMMARY:

The above participants met at the District to discuss the project. The purpose of the meeting was to review the revised project with Mr. Holcomb and get direction on landscape issues and the general configuration of the basins. Mr. Rerick and Mr. Peltz presented an overview of the project changes.

Tempe Basin

Mr. Rerick said this basin's function is only for drainage with no recreation. The basin was added to the project to simplify the storm drain system and will help to reduce the project costs. The District and the consultant had previously met with the City of Tempe concerning the basin. The City agreed to minimal landscaping and decorative wrought iron for fencing. Mr. Peltz stated that there are no critical viewing angles for the basin. Mr. Holcomb offered that the sideslopes could possibly be patterned using two shades of the aggregate mulch. Possibly come up with a design that uses the art or culture of the town. In post meeting discussions, this will not be done.

Central Basin

Mr. Rerick said that the basin configuration would remain the same. Mr. Peltz presented an earlier design of the landscaping for discussion purposes. He identified that the multiuse path would be used to separate the grass bottom from the decomposed granite used on the sideslopes. The plant material used included slow growing trees (i.e. Ironwood and native mesquite). The town identified in an earlier meeting that maintenance on trees should be as little as possible. Mr. Holcomb requested that access be provided from three corners of the basin and place berms on the east side of the basin. Mr. Peltz asked if the perimeter road could be eliminated along the south and east sides of the basin because there are adjacent roads on those sides and it would allow for more trees to be planted and add berms. The town must provide input about eliminating the O&M road in locations because they are the ultimate owners of the facility. Mr. Holcomb also suggested that a mix of 15 gal and 24-inch box trees be used as a way

to help reduce costs. Use 6 to 1 slopes below the sideslope pathway and 4 to 1 above. Also, don't use shrubs. Mr. Peltz will check the price between 15 gal trees and 24-inch box trees. Mr. Rerick suggested that the next PAAC meeting to ask about the color of the decomposed granite, concrete, and use of form liner for headwalls.

South Basin

Mr. Olbert presented an overview of the reconfiguration of the basin from the original concept for the 100-year design. Mr. Holcomb suggested revising the shape to add some curves. Pull the north and south ends in about 10 to 20 feet to allow better access. This requires adjusting the right-of-way along the west side. Provide ramps on the east and west sides of the basin. Also, raise the south half bottom floor elevation a foot or more and provide adequate space for a future basketball court. Access to the basin from Calle Vaou Nawi will parallel the north property line. The access road will be 30 feet wide to allow space for trees and shrubs on both sides of the 12 foot wide access road. Provide a 6 foot wide buffer on the north side of the access road and a 12 foot wide buffer on the south side. The storm drain pipe will be centered under the access road. Sverdrup will submit a revised configuration to Mr. Rerick tomorrow.

North Basin

Mr. Olbert reviewed the rationale for the current basin configuration. Mr. Rerick added that the District's current concept is to auction off of the remaining land. To maximize the resale price, access to the triangular area near Avenida del Yaqui must be off of Calle Cerritos, because the frontage along Avenida del Yaqui is too small. Mr. Rerick proposed that an access easement to the North Basin be set at the west side of the parcel along Calle Cerritos and a 20 foot wide drainage easement will be located to the west of La Lomita. A third 24 foot wide drainage easement will be located along the north property line from Avenida del Yaqui to the North Basin for the storm drain line. Each easement will be encumbered with the parcel to be auctioned off. Also, the town would be given the option to purchase La Lomita from the District. Mr. Peltz presented from a landscaping point of view that La Lomita and the area just to the north of the hill should be tied together along with an access path adjacent to the drainage way off of Calle Cerritos to the basin to allow the features to function together. Mr. Rerick pointed out that this approach would greatly affect the value of the triangular parcel to the west of Avenida del Yaqui. The issues will be presented to Supervisor Wilcox this week to determine which approach to proceed with. The town has already spoken to Ms. Wilcox about their position on the issue. Mr. Ellegood and Mr. Rerick will present the Districts viewpoint on the North Basin.

Follow up on the meeting with Supervisor Wilcox. She will meet with the town to discuss the possibility of the town purchasing the triangular remnant just west of Avenida del Yaqui.

Please review these meeting minutes and call me (480) 303-9799 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Flood Control District
AND DATE: January 22, 2001; 1:00 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Julie Lemmon, FCDMC
John Palmieri, FCDMC
Doug McLaughlin, FCDMC
Paul Cherrington, Salt River Project (SRP)
Al Dickie, SRP
Matt Streeper, SRP
Steve Doncaster, SRP
Tom Morales, Town of Guadalupe
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Review of Encroachment Issues with SRP and Town of Guadalupe
10-Yr Design

SUMMARY:

The above participants met at the District to discuss encroachment issues along the Highline Canal for the above project.

Mr. Rerick presented a brief overview of the project. One of the items discussed at a previous meeting with SRP was the need to locate the 12-foot wide O&M Road along the west side of the Highline Canal. Sverdrup met with Mr. Gooch in the field on January 15th and determined that the top of the west bank varies from 6-inches to approximately 3-feet from the top of the west canal concrete lining. The 12-foot wide SRP O&M Road will be defined on the plans based upon the field measurements. The shallow ditch and storm drain along the Highline Canal will be set outside the defined O&M Road.

Several sets of concept plans for the work along the Highline Canal were handed out. Mr. Olbert said that the typical section shown identifies the right-of-way being centered on the canal. Mr. Streeper said that for most of their canals the right-of-way is not centered on the canal. Mr. Olbert requested the legal description for the canal. Mr. Streeper said he would locate it and provide it to Sverdrup through Mr. Gooch. Mr. Olbert said that the ditch along the canal would be limited to 2 feet deep and 12 feet in width and the pipe under the ditch will typically be 24 to 30 inches in diameter. The ditch will be located between the O&M Road and the edge of the right-of-way.

Mr. Olbert said that the major encroachments along the Highline Canal are located south of Guadalupe Road. A "shed" located approximately 1200 feet south of Guadalupe Road (near Station 24+80), has

been occupied in the past, encroaches on the SRP right-of-way, and is in the path of the proposed storm drain. Most of the other encroachment improvements involve trailers, fences, shrubs, and trees. Mr. Morales said that the Town would talk with the property owner and have the shed removed from the SRP right-of-way.

Mr. Rerick said that the FCDMC and the Town of Guadalupe will take the lead to clear the encroachments needed to construct the project. It may be necessary for SRP to provide some written approval to the FCDMC for the FCDMC and the Town of Guadalupe to undertake this role.

Mr. Cherrington asked about the status of the two landlocked parcels. Mr. Rerick said that this was a Town and SRP issue to resolve. Mr. Cherrington said this is a Town and FCDMC issue to resolve or SRP may not approve the project work in SRP right-of-way. Mr. Rerick said that if necessary, the Town and the FCDMC would resolve the issue. Mr. Morales said the Town has been discussing the access issue with a church that wishes to construct on a parcel immediately west of these properties. The Town will require the church to provide access through the church property to the two "land locked" parcels. This will require some additional paving to be done for a driveway. POST MEETING DISCUSSION: It appears that the church will allow the access and the Town will provide the paving via the church parking lot contractor.

Mr. Rerick explained that existing fences located along the canal within the encroached areas, would be replaced in-kind or with chain link. In a couple of locations this may be with a block wall. Mr. Morales suggested that the entire length of canal right-of-way be fenced. Mr. Rerick stated this could be done but the additional cost would be the Town's expense per the Intergovernmental Agreement with the Town. A written request is all that is required to include the extra fencing in the project.

The property owners that are affected by the relocation will be given ample time to clear the encroached areas and salvage what they want before construction is started. After construction starts, the owners will be given another opportunity with a 30 day notice to clear the area. Anything remaining after this time will be cleared and disposed of by the Contractor. The previously drafted "tri-party" letter that was to go to the property owners should probably be included in some form in the Town's Ordinance Violation letter. A copy of the violation letter from the Town will be copied to SRP for their files and comment. Another meeting will be scheduled to develop the ordinance violation letter to the residences from the Town. An action item list and schedule will be developed to clear the encroached areas before construction.

Mr. Cherrington requested that Mr. Gooch be invited to all meetings that involve encroachment issues. Mr. Rerick stated that Mr. Gooch has been invited to all of the project meetings.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

Bi-Weekly MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Sverdrup Conference Room

AND DATE: January 24, 2001; 10:00 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Lynn Mattson, FCDMC Utility Coordinator
Thomas Morales, Town of Guadalupe
Bob Gooch, Salt River Project (SRP) Water Engineering
Greg Wilson, SRP Power
Dennis Peltz, McCloskey – Peltz, Inc.
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Bi-Weekly #3, 10-Yr Design

SUMMARY:

The above participants met at Sverdrup's office to discuss key issues about the project.

Mr. Olbert handed out the project schedule and reviewed upcoming events.

- Schedule was revised per last meeting.
- Flyers for the public meeting were delivered on Wed. (1/17).
- Public meeting set for 6 – 8 p.m. on 1/31 at the new Town Hall.
- Utility Coordination Meeting shifted to 1/30 at the FCDMC.
- Submit pothole request to FCD shifted to 3/05 with potholes to begin 3/13. Mr. Rerick wants to have water, gas, and telephone utilities that are parallel to our sewer lines to be traced as well as house connections identified. Lynn will check with on-calls as to how best to locate the laterals. Pothole a couple of hcs connections as an indicator of profiles.
- Next Bi-Weekly Meeting set for 2/7, 10 a.m. at Sverdrup's new office location in Tempe.
- Speedie available to begin borings February 15th. Mr. Rerick gave Sverdrup a copy of the right of entry to the SRP parcel (Tempe Basin).

Discussion of storm drain system conflicts with SRP power distribution system and US Sprint.

- Storm drain is planned for the south side of Guadalupe Road from the Central Basin west to Avenida del Yaqui. SRP to plan on bracing the poles. Mr. Wilson said the bill for the bracing can be given to the FCDMC instead of the contractor. SRP needs 25 feet from the open trench to the pole to avoid bracing. Pipe trenching can be closer to the power poles without bracing

provided SRP engineers review soil boring logs in the area and give their approval. The 30% plans should be delivered to Mr. Wilson for review.

- The Town of Guadalupe is planning for new C&G along Guadalupe Road. Construction of the C&G is anticipated for 2004. Mr. Morales will know by March 2001 whether funds will be available for earlier construction.
- Mr. Wilson identified approximate costs to brace a 12 kV pole at \$1,300 to 1,700 and \$5,000 for a 69 kV pole. Costs vary because of the site conditions.
- South of Guadalupe Road along the west side of the Highline Canal, at least five poles will require relocation closer to the right-of-way line. Mr. Wilson asked how the right-of-way was set. Mr. Rerick said that the right-of-way line was set based upon survey information provided to the FCD by SRP surveys. SRP later set white right-of-way markers in the field. Mr. Stough will be within 10 feet of the poles. Mr. Wilson said that bracing could be avoided if longer poles are used and the poles are set 10 feet deeper. The cost for replacing the existing 12kV poles with a longer one will be approximately \$5,000. Because the poles will be moving closer to the residences, the service lines will only need to be shortened. There is no need to upgrade the service connection. SRP will need to check the horizontal clearance to any structure in the field. They must have a minimum of 10 feet. The lines can be placed on the canal side of the pole to help avoid aerial encroachments. There appears to be Cox Cable on the poles. SRP will coordinate with Cox to have their lines moved. SRP will not clear the encroachments to place the new poles. This needs to be done by the project in advance of the SRP work. SRP will survey in the new power pole locations using the project control provided by Sverdrup.
- Mr. Wilson requested that future plans highlight the existing pole locations better. Sverdrup to provide a revised plan view along the Highline Canal for Friday's meeting.
- Field visit set for 9 a.m., Friday (2/2) to review the relocation conditions. Meet at the new Town Hall. FCD to invite the Cox representative to the meeting. Identify parcels and fences affected by relocation work. Mr. Morales will later contact the owners about vacating the encroachment areas.
- Light pole near intersection of Calle Pitaya and Calle Batoua is not SRP's. The Town of Guadalupe will check to see who owns the pole. The pole needs to be relocated in advance of the project or by the project.
- Conflict with 69/12 kV pole located just south of the Highline Canal crossing of Avenida del Yaqui was discussed. From a previous site meeting with US Sprint, the pole can be braced but is very costly. Mr. Wilson said the new storm drain must be positioned 25 feet to the south of the existing pole to avoid bracing the pole. Sverdrup will provide soils information to SRP to help them determine what the minimum distance that the pipe trench must be from the pole. Otherwise 25 feet must be used. A permanent drainage easement can be purchased from the parcel to the south to ensure maintenance access.
- SRP will remove the pole from the SRP parcel where the Tempe Basin will be located.
- Mr. Rerick said that US Sprint is claiming prior rights for this project. The Town of Guadalupe and the FCD claimed that they don't have prior rights. US Sprint was still pursuing issue.

Mr. Olbert provided a quick review of meetings held since last project meeting.

- Landscape meeting was held to review each of the retention basin sites. South Basin – Basin configuration was revised to a more aesthetic shape. Central Basin – provide access at the southwest corner of the basin, otherwise the concepts were good. Will discuss removing the

O&M road along the tops of the south and east sides with PAAC. This will provide more room for berms and vegetation. Tempe Basin – Use of two shades of aggregate mulch for designs in the basin was suggested. Mr. Rerick said that there was no guarantee that two shades of the rock could be found and directed Sverdrup to have only one aggregate mulch specification for the project. Area around transmission tower (50 foot radius) will remain SRP property. North Basin – Modifications were suggested to adjust the top of bank hinge point. Subsequent meeting with Supervisor Wilcox altered discussion points on the North Basin.

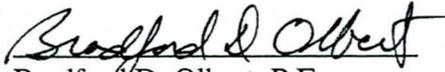
- Mr. Rerick met with Supervisor Wilcox and Mr. Ellegood. The North Basin has been shifted to the east on the site to incorporate La Lomita. Clarification was needed on whether the baseball field will be kept or not. Mr. Peltz said the west boundary line would need to shift 60 feet to the west to include the baseball field.
- Mr. Olbert suggested that all or a portion of the soil from the basin could be spread over the remaining parcel to reduce the hauling distance and reduce excavation costs. Mr. Rerick suggested berms as a means to stockpile the soil. Mr. Rerick will discuss proposal with FCD Lands.
- Sverdrup met with Mr. Gooch in the field to identify the hinge point between the Highline Canal and the O&M Road along the west side of the canal. The issue was to locate the O&M Road to better define where the intercept ditch could be located. Mr. Rerick said that Sverdrup should send him an email the results of the field visit.
- A meeting was held with SRP to discuss the encroachment issues. SRP, FCD and the Town of Guadalupe will issue a joint letter to each of the parcel owners where encroachments affect this project. The most serious encroachments are located south of Guadalupe Road.
- Mr. Rerick defined the FCD's participation with regards to constructing fencing and paved access for the project. The project will replace existing fences (in kind) with either chain link or concrete block. The Town must send a written request to the FCD for any additional fencing or upgrades from chain link to block. This would apply to paved access items as well. The Town would be required to pay all costs, including 8% for CM work. The letter needs to be received soon from the Town to be included in the project.
- The Town must provide a letter to the FCD regarding the decision by the Town Council to use dry wells in lieu of the pump station.

Public meeting will take place at the new town hall on January 31st. Sverdrup prepared a handout identifying who will bring what items. Mr. Rerick requested that the town provide a security officer for the meeting. Sverdrup will arrive around 5 p.m. to start setting up the room.

Sverdrup will move their office the last week of January to 875 W. Elliot Road, Suite 201 in Tempe. The next project meeting will be at the new office.

Please review these meeting minutes and call me (480) 303-9799 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

Olbert, Brad

From: Don Rerick - FCDX
Sent: Tuesday, January 30, 2001 1:19 PM
To: Brad Olbert
Subject: FW: Guadalupe Project - Town Council and North Basin

> -----Original Message-----

> From: Don Rerick - FCDX
> Sent: Saturday, January 27, 2001 9:24 AM
> To: 'brad.olbert@jacobs.com'; Mike Ellegood - FCDX;
> 'dpmi@mindspring.com'
> Cc: Tom Johnson - FCDX; Dennis Holcomb - FCDX; Don Rerick - FCDX; John
> Palmieri - FCDX; Doug McLaughlin- FCDX; Jim Schwartzmann - FCDX
> Subject: Guadalupe Project - Town Council and North Basin

> On Thursday night last, Terri Leija and I met with the Town Council to
> present the "final proposed version" of the North Basin. Results:

> 1. They want the ball diamond.

> 2. I told the Town this would require approximately 0.5 acres more to be
> added to the west side of the basin footprint by moving the west line
> further west by about 60 feet, with the south limit at approximately the
> north limit of the Lomita parcel.

> 3. I told them that the cost to fund this additional acre would come off
> the top of the landscape allowance for the project. (A recap on the
> landscape funds is; per policy we have about \$495,000 to work with. The
> half acre will cost between \$55,000 and \$70,000. Using a middle number of
> about \$62,000 this leaves \$433,000 for landscaping and aesthetics for the
> entire project. We will need to sharpen our pencils to get a "kinder &
> gentler" package for this amount of money.)

> 4. The Town did not seem to be too concerned about the landscape cost
> issue, they want the diamond.

> 5. Town Manager Tom Morales mentioned that the Town is working with the
> Diamondbacks baseball team (is that what they are??) to have them build
> the ball diamond and appurtenances.

> 6. I suggested that the Town should see if this could include sufficient
> landscaping improvements around the ball diamond area to make up for the
> lost landscape fund caused by the added half acre. Tom seemed to think he
> could pursue this.

> 7. I suggested that we define a westerly limit in the North Basin beyond
> which no landscaping would be installed as part of our project, leaving
> this to the Diamondbacks efforts. This could help offset the lost
> landscape funding. We will determine this at one of our next bi-weekly
> status meetings.

> 8. The Town asked if there was a way to avoid tearing up the basin work
> twice, once for our project irrigation, etc. and then for the ball diamond
> lights. I told the Town, that they can request in writing that the
> lighting conduit be installed as part of the basin project AT TOWN COST,
> using Town prepared plans. The plans would need to be ready to meet our
> project schedule and we would include in the P&S with a stand alone bid
> item.

> 9. There was no discussion regarding the Lomita, what the proposed plan
> showed relative to Lomita the Council seemed to like. We pointed out that

> all improvements were staying outside the toe of slope of the hill.
> Though it was not mentioned again, it is expected that the Town will be
> purchasing the hill parcel.
>
> 10. After the meeting I discussed with the Town Financial Manager, Mark
> Johnson, the need for the Town to send a letter to the District outlining
> the recent Council approvals =>
> -- Dry wells and no pump station for the South basin.
> -- Modified North basin footprint to include a ball diamond.
> -- That the ball diamond is a Little League sized ball diamond only.
>
> So, we have a slightly larger basin footprint of about 4.75 to 5.0 acres
> with a slightly reduced remnant of about 5.75 acres. This does not
> include the approximately one acre Lomita parcel which would be sold to
> the Town.
>
> We can now move forward with the modified and final North Basin footprint
> to include the ball diamond. We will need this for the Public Meeting on
> Wednesday next.
>
> Thanks.

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Flood Control District
AND DATE: January 30, 2001; 9:00 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Lynn Mattson, FCDMC
Bob Gooch, Salt River Project
Tom Ankeny, City of Tempe
Norma Jardin, Southwest Gas
Colin Sword, US Sprint
Judy Irwin, US Sprint
Matthew Phillips, Qwest
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Utility Kickoff Meeting, 10-Yr Design

SUMMARY:

The above participants met at the District to discuss utility conflicts and issues for the above project.

Mr. Rerick presented a brief overview of the project describing the new 10-year project features. The final plans and specifications for this project are due the end of September. Utility relocations for this project must be complete before the project is advertised. Submit prior right information to the FCDMC early.

Mr. Sword with US Sprint said that he has to deal with several agencies when working on Avenida del Yaqui. Who is funding this project? Mr. Rerick said the project is totally funded by the Flood Control District using property tax money. There are no federal, Town of Guadalupe or any other agency funds being contributed toward this project. Mr. Sword felt that US Sprint should not have to relocate their facility on Avenida del Yaqui at Sprint's cost. Mr. Rerick said that the FCD and the Town's position from the last project have not changed on prior rights. The FCD will do what it can to minimize Sprint's relocation costs.

Mr. Sword thought it would be less expensive for several utilities if the proposed 48-inch storm drain into the north basin is routed parallel to the Highline Canal pipeline before turning into the North Basin. This would avoid his line and also the water and gas lines. He will have to excavate 160 feet of his fiber optic line to lower it by four feet. He will also have to brace the SRP power pole. He will order potholes on his line this week to provide Sverdrup with additional information to help possibly miss his line. Sverdrup will check back on their previous pothole information on the 2-inch gas line and the 12-inch water line. Mr. Gooch will check on the parallel issue and offset with his staff. Mr. Sword requested survey control information from Sverdrup. The information can be faxed to him.

At Calle Batoua, shift the storm drain line to the west between Calle Sonora and Calle Gloria to miss the 18-inch sanitary sewer. Water line and sewer laterals were not shown on the plot for this area. Possibly the SWG line and two power poles may need to be relocated. Check sewer line to verify it is not in conflict with the storm drain. Sverdrup will order dips to be taken on manholes in the area.

General comment – pothole several sewer house connections to get a perspective on whether the house connections will be in conflict with the proposed storm drain line.

On San Angelo there may be a conflict with a water line and the SWG line. At the Vaou Nawi/Iglesia intersection, there may be a conflict with the existing sanitary sewer line.

Near the Central Basin, a waterline at the northwest corner of the basin may require relocation. Mr. Ankeny indicated this might be done by the City of Tempe for practice using their crews. Curb and gutter file needs to be turned on to show location of the future work.

The buried telephone lines on Calle Guadalupe need to be researched to determine if there is an abandoned line. This will help to locate a position for the new storm drain line along the south side of the roadway. Mr. Phillips with Qwest will check his files for the information.

Mr. Ankeny said he believes that the 30-inch water line on Guadalupe can't be shut down without affecting the Coke facility. He will check and call Sverdrup with the information. The 12-inch water line can be relocated. **POST MEETING NOTE:** Call from Mr. Ankeny, 30-inch cannot be shut down.

The ELPNG line on Guadalupe may also need to be relocated. Potholes will be needed on the ELPNG line and the 30-inch water line.

Along Calle Vaou Nawi south of Calle Guadalupe, plot the relative location of the storm drain line versus the sanitary sewer, 8-inch water line and the 2-inch gas line. A 6-foot clearance out to out is needed for the water line. Mr. Ankeny stated that this could go to 4-foot minimum if absolutely necessary. It is better for the storm drain to be closer to the water line than relocating the gas line closer to the water line. Sverdrup will look at the relative costs to relocate the gas line versus other utilities. The SGC's and the SP's should indicate if a trench box is necessary to maintain the existing utilities in place.

Getting the pothole information early is a priority with this project. Also tracing the house service connections to the utility lines. Sverdrup will contract out pothole work up to their allowance amount. The District will use their On-Call for any additional needed for the project including the tracing if necessary.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION AND DATE: Town Hall, Guadalupe, AZ
January 31, 2001; 6:00 to 7:30 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Thomas Morales, Town of Guadalupe
Mark Johnson, Town of Guadalupe
Dennis Peltz, McCloskey - Peltz, Inc.
Dan Stough, Sverdrup Civil, Inc.
Laura Nordan, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Public Information Meeting – 10-Yr. Design

SUMMARY:

Visitors for the open house meeting began arriving at the Council Chambers at 6:00 p.m. Each visitor was asked to sign-in at the front table. They were given a handout that identified the purpose of the meeting, provided information on the history of the project, what work is being done at the present time, informed them of what to expect in the near future, how they can participate, and who they can contact. The handout was prepared in both Spanish and English.

Displays on hand for the visitors to view included:

- An aerial site map of the town at a scale of 1" = 200' that showed the location of the proposed improvements in a schematic format.
- An aerial site map of the town at a scale of 1" = 200' that showed the location of the proposed storm drain improvements in a schematic format.
- Four plan view drawings showing the landscape/recreational facilities being planned for each of the retention basins.
- Four plan view drawings showing the grading proposed for each of the retention basins.

Visitors were taken through the displays and asked to comment on what was presented. A comment form was attached to the back of the handout.

The following is a summary of the issues, concerns, and opportunities that were raised by the public during the meeting and/or submitted on the comment forms.

Concerns about the Project

One resident of Tempe said that he has lived along the canal for 10 years just across from the proposed Central Basin. He has spent many hours cleaning up trash and drug paraphernalia left along the backside of his property. He asked how would placing a park across the canal improve the trash and security problem. There are many late hour parties in the Town. Would the parties be restricted to reasonable time limits within the park?

Another resident of Tempe stated that he was also concerned about security across the Highline Canal from the Central Basin. He has found transients sleeping in his oleander hedge. While he appreciated the work that the sheriff's office has done, he felt that more could be done to improve security. Constructing a wall along the east side of the Central Basin to control noise and limit access to the canal would help. Additional sheriff patrols for the area are another. The citizen was told that constructing a wall is not part of the flood control project, and that writing the Town and the District might be a way to cause the wall to be constructed.

Both Tempe residents were asked to put their comments in writing. A form was provided at the back of the handout for their convenience to express their thoughts on the project. They were also encouraged to write to the Mayor and Council, and the Town Manager to increase the security force for the area.

The Maricopa County Sheriff's Deputy that covers the Town of Guadalupe thought that the planned basin/park facilities would be a great asset to the Town and saw nothing but a positive outcome. The town has improved greatly over the last ten years. There are a lot of good folks working hard to make the town a better place to live. This project will continue the effort to improve the quality of life in the town.

The meeting adjourned at 7:30 p.m. Two Tempe residents, one Guadalupe resident, the Town Mayor, Town Councilman Armenta, County Supervisor Wilcox, Supervisor Administrative Aide Leija, and the Sheriff's Deputy for the area attended the meeting. Nobody left comments at the meeting or mailed comments to Sverdrup.

Please review these meeting minutes and call me (480-763-8612) if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Town of Guadalupe
AND DATE: February 02, 2001; 9:00 am

PARTICIPANTS: Lynn Mattson, Flood Control District of Maricopa County (FCDMC)
Greg Wilson, Salt River Project (SRP) Power Distribution
Jim Ricker, Town of Guadalupe
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
SRP Site Visit for Power Pole Relocations, 10-Yr Design

SUMMARY:

The above participants met at Town of Guadalupe new Town Hall prior to driving along the Highline Canal to visit locations where power poles will need to be relocated.

The power pole located approximately 200 feet north of the Milagros subdivision is not affected by the project. This pole will be protected in place (PIP).

The power pole located approximately 95 feet north of the Milagros subdivision will also be protected in place. Mr. Wilson said there are no issues involving moving the pole if the is shifted slightly to reduce the deflection of the wires.

The power pole located near the northeast corner of the Milagros subdivision will need to be sifted 5± feet to the west. Mr. Wilson said there are no issues involving moving the pole. Also, the pole has a luminaire attached to the pole.

The power pole located approximately 75 feet north of the southeast corner of the Milagros subdivision will need to be sifted 9 feet to the west. Mr. Wilson said moving the pole will place the power lines over the shed on the lot locate immediately south of the southeast corner of the Milagros subdivision. The shed needs to be removed prior to relocating the line. Mr. Ricker said that the town ordinance is that no one is to build within 10 feet of the property line. The shed needs to be removed to comply with the ordinance. The barrier along the backside of the lot was not considered a fence. Cacti, mattresses, car hoods, cut tree limbs have been used to form a barrier.

The power pole located approximately 140 feet south of the southeast corner of the Milagros subdivision will need to be sifted 9 feet to the west. Mr. Wilson said they will need to place the pole on the north side of where the existing chain link fence is located.

The power pole located approximately 390 feet south of the southeast corner of the Milagros subdivision will need to be sifted $9\pm$ feet to the west. Mr. Wilson noted that a palo verde tree located approximately 270 feet south of the southeast corner of the Milagros subdivision will need to be removed. The tree will be located directly under the relocated power lines. Two truck trailers located about 30 feet south of the pole will also need to be moved to the west prior to the power line being relocated.

The power pole located approximately 60 feet south of the northeast corner of the Acuna property will need to be sifted approximately 6 feet to the west. The existing pole is located within the fence put up by the Acuna family. Mr. Acuna met us at the fence line and questioned the moving of the fence line to the west. He said that his fence was placed based upon the county assessor's maps. Mr. Wilson said that based on field survey information the fence was placed on SRP property. The fence will need to be moved for the project.

Mr. Wilson said that when the area was surveyed earlier, the survey crews set pins. Mr. Olbert said that Sverdrup had requested legal description information from SRP on the Highline Canal. So far SRP has not forwarded the information. We did receive the prior survey data points but no backup information about the survey from Pentacore. Mr. Ricker said that he had been telling everyone that the property line is located 10 feet to the west of the poles. Mr. Mattson said that the existing survey markers should be better identified in the field, because the property owners don't know where the R/W line is.

The power pole located near the northwest corner of the FCDMC parcel (South Basin) is not affected by the project. However, Mr. Wilson said that he did not like the down guy that was placed near the O&M Road and he will probably put in a new larger pole that will be placed deeper to eliminate the need for the down guy. The pole will be shifted to the west approximately 4 feet to also reduce the deflection angle of the overhead wires.

For estimation purposes, Mr. Wilson said to use \$5,000 per pole to relocate the 12 kV line. The cost for each pole is different, but \$5,000/pole is a good place to start for the estimate. Mr. Wilson also recommended that the chain link fencing be grounded because of the proximity to the 230 kV lines.

The group stopped near the 69 kV line located along Guadalupe Road. Mr. Wilson said that if the trench for the storm drain line is braced in the vicinity of the power pole, no pole bracing is needed. The trench can be within 10 to 15 feet of the pole. Also, SRP will need to review the soils data to determine if the trench walls can hold a vertical cut.

The streetlight at Calle Pitaya and Calle Batoua was examined. It appeared to Mr. Wilson that the streetlight was owned by SRP. Mr. Wilson will check the pole number to confirm that SRP owns the pole. Mr. Ricker said that errant drivers sometimes do not make the turn eastbound on Calle Pitaya to southbound Calle Batoua. The northbound to westbound direction is not a problem. Locate above ground facilities to minimize hits by drivers (i.e. check valve enclosure for irrigation of Tempe Basin).

The group stopped at the conflict with the power pole located on the west side of Avenida del Yaqui, just south of the Highline Canal crossing. Mr. Wilson said that the pole could be moved approximately 5 to 10 feet to the north if it will help to position the storm drain line south of the pole. Mr. Olbert said the desire is to place the storm drain on the north side of the pole to avoid having to relocate three other

utilities (gas, water and a fiber optic line). Mr. Wilson said that with the pole braced, the pipe trench wall could be placed as close as two feet away from the base of the pole. That would leave some room for a fiber optic line sleeve that would span the width of Avenida del Yaqui. Contact Floyd Harden at 602-236-8643. He can tell you how deep to place the conduit, what conduit size is needed, and how many conduits.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Flood Control District
AND DATE: February 5, 2001; 9:30 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Bob Gooch, Salt River Project (SRP)
Bob Pane, SRP
Paul Cherrington, SRP
Matt Streeper, SRP
Dan Stough, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
SRP Well Closure Meeting
10-Yr Design

SUMMARY:

The following is a summary of a meeting held at SRP to discuss the disposition of the Zanjero residence well located on the Tempe Basin Parcel.

The well was apparently a household well, not a production well.

SRP believes that it is likely that the well steel casing is located behind the former location of the house foundation and within about 50 feet of the power pole on site.

The well apparently was never registered with ADWR or ADEQ accordingly to Bob Pane's research.

The Contractor should go to ADWR to obtain the well closure certification card. At that time ADWR would both register and abandon the well (the certificate is good for one year).

FCDMC needs to determine what it can do to speed up the process on the well closure in advance of construction. A suggestion was to have FCDMC obtain the closure card once the pre-construction meeting has been held and the Contractor announces who the well subcontractor will be.

Using SP Section 609, everything to be done by the Contractor, by the FCDMC and by ADWR must be presented for bidding purposes. The ADWR well closure guidelines will need to be followed and shall be referred to in the Special Provisions.

When the FCDMC acquires the parcel it becomes the owner of the well. SRP no longer has any interest in the well. And, since it was never registered, ADWR will assume FCDMC is the owner.

The FCDMC will sign the abandonment form (no SRP signature).

The well will need to be cut some minimum distance below the new finished grade of the basin, then grouted solid for at least 20 feet.

When the FCDMC and/or Contractor apply for the well closure, the ADWR may request proof of ownership of the well site by the FCDMC.

The well should be located in advance of construction if possible. Some kind of tracer method could be used. FCDMC may want to do the tracing using the FCDMC on-call pothole contractor.

SRP suggested using the SRP on-call driller for the actual well closure, as they have been through the ADWR process repeatedly in the past.

The abandoned dead-end power pole on site must be removed before construction. Lynn Mattson will check with SRP to see if they will do it at their cost or not.

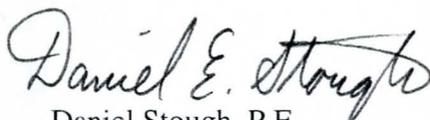
ADDITIONAL NORTHEAST BASIN ISSUES

Need to identify the alley and ELPNGCo easements along the north side of the basin and show on the plans. FCDMC must identify the location of the gas line too.

Bill Phillips will let Don Rerick know what type of fence to use at the south end of the parcel.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Daniel Stough, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

Bi-Weekly MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Sverdrup Conference Room
AND DATE: February 7, 2001; 10:00 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Bob Gooch, Salt River Project (SRP) Water Engineering
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Bi-Weekly # 4, 10-Yr Design

SUMMARY:

The above participants met at Sverdrup's office to discuss key issues about the project.

Mr. Olbert handed out the project schedule and reviewed upcoming events.

- Schedule is the same as previous meeting. Expecting to add at least a week to the schedule to allow for lost time due to changes with the North Basin.
- Next Bi-Weekly Meeting set for 2/28, 10 a.m. at Sverdrup's new office.
- The next items on the schedule include the 30% submittal, geotechnical fieldwork, and potholing. Mr. Rerick gave Sverdrup a copy of the approval to use the allowance for the pothole work. Authorization also included landscape work for the Tempe Basin and design work for the dry wells. Sverdrup will use Pentacore to obtain the manhole dips. Mr. Rerick said the boring locations identified by Sverdrup were approved but asked about needing an additional boring on the north side of La Lomita. Speedie, as part of their FCDMC On-Call work, already obtained four borings around La Lomita. No additional borings will be needed.

The following utility work was discussed.

- The earlier meeting with Greg Wilson (SRP Distribution) concerning the relocation of the 12 kV power poles along the Highline Canal was discussed. A chance meeting with one of the property owners (Mr. Acuna) identified the need for more definitive marking of the SRP right-of-way. Mr. Gooch will get the legal description. It was Mr. Gooch's understanding that the survey data was passed on to Sverdrup. Sverdrup will check their files for survey notes to identify the right-of-way pins that were set in the field by a previous SRP survey. Mr. Rerick said that the Town of Guadalupe must resolve the encroachment issues with its residents. After reviewing the SRP survey notes, a decision must be made if additional survey is needed to better define the SRP right-of-way line. This will be necessary to show the residents the encroachment area that needs to be cleared. A change order may be necessary in order to do the survey.

- The relocated 12 kV power line will be directly above a shed built within the encroached area. The Town identified that the shed violated Town ordinances. Mr. Rerick said that the Town must resolve the removal of the shed as well as the other conflicts in order to relocate each of the power poles located south of Guadalupe Road.
- The light pole located near the Highline Canal at the intersection of Calle Batoua and Calle Pitaya will be relocated by SRP. Mr. Mattson will follow to make sure the relocation work is done prior to construction. Sverdrup needs to select a new location for the pole.
- At the Highline crossing of Avenida del Yaqui, when the present irrigation pipe replaced the old crossing structure there may be some remnant concrete structures buried. Any remaining structures may affect the construction of the new 48-inch storm drainpipe. Mr. Rerick asked Mr. Gooch to research SRP as-built plans to check.
- A teleconference involving SRP, Sverdrup and the FCD will be held 2/12/01 to discuss and finalize the routing of the 48-inch storm drain either to the north or the south of the SRP power pole located south of the Highline crossing of Avenida del Yaqui. Sverdrup to prepare a cost estimate for each route. Will use \$5/SF for the permanent drainage easement unit cost and will include cost for installing the fiber optic conduit under Avenida del Yaqui. Mr. Gooch will check on the SRP conduit needs for the fiber optic line(s). Tentative time for meeting 1:30 pm.
- Mr. Mattson obtained a verbal agreement with ELPNG to use their easement to construct the Tempe Basin. Include direction to the contractor in Section 105.6 of the SGC's. Specifics will be coming from ELPNG on restrictions when using the easement such as platting or additional fill over their pipeline. Three potholes will be taken to verify the gas line location for the contractor.

Other issues discussed at the meeting included.

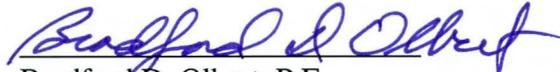
- FCD will arrange for a field review meeting to discuss temporary construction permits and construction access with the Town. Meeting to be held the week of February 19th. The FCD has made a tentative agreement with the owner(s) of several parcels along the Mineral Street alignment for a temporary construction easement in exchange for a water and sewer crossing of the FCD property (South Basin). Residences will be able to use the Mineral alignment TCE during construction hours for access to their lots, but not during non-construction hours due to liability. The contractor will need to plate the trench opening on Vaou Nawi during non-construction hours to allow local residential access. This will be described in Section 401 of the SP's.
- Mr. Rerick stated that the historic flow data for the Highline Canal should be added to the SGC's. The information is needed for the contractors use during the bidding process. They can then decide how best to cross under the Highline Canal at the Tempe Basin. Mr. Gooch said that the historic flow data is not needed. What is needed instead is the bypass requirements from SRP operations. Mr. Gooch will obtain that information.
- Fencing needs to be discussed at our next progress meeting.
- The Town must provide a letter to the FCD regarding the decision by the Town Council to use dry wells in lieu of the pump station.
- McCloskey Peltz promised to provide several copies of the North Basin baseball field area for use by Supervisor Wilcox in her discussions with the Diamondbacks. McCloskey Peltz is also going to provide a rough cost estimate for the landscaping and lighting. Sverdrup will contact

Mr. Peltz to determine the turnaround time.

The next project meeting will tentatively be held at the new Town Hall for Guadalupe on 2/28/01 at 10 am.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Teleconference Call
AND DATE: February 12, 2001; 1:30 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
 Bob Gooch, Salt River Project (SRP) Power Distribution
 Dennis Erickson, SRP
 Floyd Hardin, SRP
 Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
 Flood Control District of Maricopa County
 Guadalupe Drainage Improvement Project
 Alignment of the Storm Drain at Avenida del Yaqui and the Highline Canal

SUMMARY:

The above participants met by teleconference to discuss the possibility of realigning the storm drain on Avenida del Yaqui just south of the Highline Canal around an existing SRP 12 kV power pole. The realignment would place approximately 70 feet of 48-inch storm drain within SRP's Highline Canal R/W.

Sverdrup analyzed two alignments for the storm drain. One alignment passed around SRP's power pole to the south and the second alignment passed around SRP's power pole to the north. The south storm drain alignment was shorter than the northern alignment but required a significant amount of R/W from a commercial parcel and would affect three utilities (a 2-inch SW Gas line, a Sprint Fiber Optic line and a 12-inch City of Tempe water main). The northern storm drain alignment will encroach six feet upon SRP's R/W and possibly will miss the gas and fiber optic lines.

SRP's only concern with the northern alignment was losing room to place their future fiber optic line and precluding future use of this side of the canal for other commercial communication lines. Mr. Rerick said that the District would be willing to install a conduit crossing of Avenida del Yaqui during the project to facilitate SRP's need. Mr. Gooch said that SRP would agree to the northern alignment with the installation of the conduits.

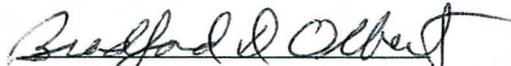
Two 4-inch Schedule 40 PVC conduits will be placed with the ends of the pipes 5 feet beyond the roadway R/W and placed vertically in the trench with 6-inches separation (center to center). The trench will be backfilled with a one-sack concrete slurry mix to 3-inches above the top of the conduits. The top of the conduit bank will be 36-inches below the roadway surface. The ends of the conduit will be capped and wrapped with tracer tape to be able to locate them at a later date. Provide a minimum 3-foot lateral separation between the conduit trench and the 66-inch Highline Canal irrigation pipe.

Three separate SRP licenses will be needed for the drainage ditch and pipe work along the canal, another for the Tempe (NE) Retention Basin storm drain pipe under crossing of the Highline Canal, and another for the Avenida del Yaqui storm drain pipe. Mr. Gooch asked that the FCD work through him rather than through Bob Maurer or Susanna Ortega for the licenses.

Mr. Rerick asked if any annual rental fees were associated with the licenses. Mr. Gooch thought it was just a processing fee, but he will check on the question and get back to Mr. Rerick with an answer.

Mr. Rerick said that the SGC's would include notification to the Contractor that he must obtain an SRP inspection of the conduit installation. Also the contractor must provide a 7 day prior notification to SRP before starting work on the conduit. Contractor to contact Floyd Hardin at 602-236-8944.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Town of Guadalupe
AND DATE: February 22, 2001; 8:30 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Gene Arnold, FCDMC
Fritz Huber, FCDMC
Bob Gooch, Salt River Project (SRP)
Matt Streeper, SRP Lands
Tom Morales, Town of Guadalupe
Jim Ricker, Town of Guadalupe
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Site Visit, 10-Yr Design

SUMMARY:

The above participants met at Town of Guadalupe new Town Hall prior to driving along the Highline Canal to identify SRP R/W markers, fence relocations, direction on project access, stockpiling of soil, and direction on traffic control.

The group stopped along the Highline Canal near the northeast corner of the future South Basin. The R/W pins set by SRP in 1996 were not located. The group was undecided if hubs should be set in the SRP O&M Road near the SRP power poles to better define the R/W for the property owners. The Highline Canal record of survey is clear on the right-of-way limits. In the near term, to provide the Town of Guadalupe guidance as to the R/W location, Sverdrup will define the R/W by providing distances from the Highline Canal lining to the R/W line. A second dimension from the power poles to the R/W line will also be provided. Dimension information will be shown on 11"x17" sheets.

The Town will contact each property owner and identify the existing R/W that needs to be cleared of items they wish to salvage prior to construction. Because SRP will need to relocate power poles before the project begins, the area around the power poles must be cleared. After the residences remove what they want from the area, what ever is left around the power poles the Town will need to clear down to the ground (including fencing and vegetation). Sufficient room must be left on either side of the poles to allow a large auger truck to backup into the area. In addition, the Town must see to it that the shed and truck trailers are removed. The Town will be responsible for temporary fencing around the poles until the contractor takes control of the site to clear and grub the right of way.

New chain link fencing will be installed from the South Basin to a point approximately 450 feet south

of Guadalupe Road. The chain link will abut the existing block wall near Calle Milagros. The chain link fencing will be 6 foot high with gates placed at locations where existing gates are located. Mr. Gooch said that SRP allows only pedestrian gates on SRP R/W. The existing tire barrier (Sta. 30+60 to 32+10) will be removed by the Contractor and chain link installed. The Town will check with the property owner if they want to keep the tires. Mr. Rerick said that a bid item for removal and disposal of the tires would be needed if the owner does not want them. Approximately 200 tires, most with rims, were counted.

The section from the Central Basin north to Avenida del Yaqui was reviewed next. At the Central Basin, Mr. Rerick said that the north and west property lines for the basin needs to be well defined on the plans as well as what we are going to do (i.e. such as a fence or just stop the landscaping at the property line). If the Town wishes, and at the Town's cost, fencing could be installed along the North and West sides of the basin to demarcate the basin property from adjacent private property. Sverdrup will need input from the Town as soon as possible.

Chain link will be installed from the northeast corner of the basin through the lot immediately north of Calle Mexico. Sverdrup to field check the location of the fence near the trailer. The plans show the fence within the R/W. Tree near station 51+00 appears it will be removed by the project. If so then per MAG a separate bid item will be needed for a tree with a trunk greater than 12 inches. Sverdrup will verify any other 12-inch or larger trees along the project that will need to be removed and included in this bid item. New fence is needed for lot near Sta. 52+20 to 52+80, existing fence is held in place with t-posts.

Mr. Gooch said that SRP might want to fence the openings along the canal between the Central Basin and Calle Pitaya. He will check back with SRP. Fencing gaps defined in the field were 47+50 to 52+20, 54+40 to 65+20, 68+40 to 69+00, and 73+50 to 75+00.

Plan segment between Sta. 65+00 to 68+00 was excluded because no construction was anticipated to be done adjacent to homes north of Calle Sonora. Area has two structures close to the R/W line. A 200 foot long grader ditch will be added to drain to the north from Sta. 66+00 to Calle Mesquite.

Mr. Rerick requested that between Calle Mesquite and Calle Batoua the ditch be cut to fit between the existing fence and the O&M Road. Ditch could possibly be moved closer to the O&M roadway. The existing fence should not be removed. Let the ditch sideslopes vary to fit within the area. From sta. 77+45 to 81+00, the existing 8 foot high fence should be removed and a new 6 foot high chain link fence placed on the R/W line. The owner may want to move his 8 foot fence to the R/W line if he wants to keep the 8 foot height. The Town must cause this fence to be relocated.

The group stopped along the Highline Canal on the east side of Avenida del Yaqui. Mr. Rerick said that because of the construction needed at this location, it would be best to be able to close down southbound Avenida del Yaqui for two to three weeks. This amount of time should allow the work to be completed within the R/W. There is not enough room to allow two lanes of traffic to the east of the work. The District and eventually the Contractor will need to coordinate with the Town and Tempe because the work will affect traffic flow in Tempe. Both the Town and the City of Tempe must approve a Temporary Construction Permit (TCP) for the work in the R/W. There may not be enough room on the east side for the excavation, for Jersey Barriers and enough roadway width without taking out the existing east side curb and gutter. Sverdrup will evaluate and include in Section 401 – a description of

traffic control to include closing of the south bound and center lanes, removal and replacement of curb, gutter and sidewalk to maintain northbound traffic for a duration of up to three weeks, and a acquiring a TCP. On the east side of Avenida del Yaqui, will need to acquire a 12 foot permanent drainage easement and TCE for the remaining northern portion of the lot for installation of the catch basin and for traffic control.

Discussed stock piling of excavated soil on the excess land for the North and South Basins. Concluded that the soil may be of benefit to the future property owners when property is auctioned off. Specifications may be written to allow the contractor to stockpile soil from the two adjacent retention basins or haul away if it lowers the bid price. The stockpiling parameters would need to be provided in the specs (height, slope, extent, etc. and would not be compacted. Need FCD Lands Division approval for this stockpile effort. Soil placed in the area will need to be seeded to control dust. The soil from the Tempe and Central Basins will need to be hauled away.

The group stopped at the south end of Calle Vaou Nawi and discussed construction on the roadway. A TCE for access along the Mineral Street alignment is being obtained by the FCDMC. Mr. Arnold will check on delineating the width available for the TCE. Local residents will not be allowed to use the TCE for access to their property. Contractor will only be allowed to open 300 feet of trench a day or as directed in the field. Contractor is to maintain one lane open during construction and provide a flagman as required for residential traffic. Use Tempe standard for residential streets of 2" AC over 4" AB when replacing the street pavement. Open trenches must be covered with steel plate at the end of each workday. Discussed construction material for storm drain. Mr. Huber felt the construction work would go faster using HDPE pipe because there are fewer joints, lighter weight pipe, and lighter equipment is required. The District and the Town will allow HDPE if the material is currently approved for use by ADOT. Mr. Olbert to check material status with ADOT in order to obtain Town approval of its use. It was determined that CIPP pipe will not be allowed for the storm drains, and the SP's must reflect this.

Trash pickup appeared to be on Thursdays. Mr. Ricker will check with the solid waste pickup company about constraints to their work. Possibly use a shift in the pickup times. Mr. Ricker will also check with the Post Office on delivery issues they may have. The SGC's will need to reflect any special conditions required to be maintained by the Contractor for these activities. Mr. Rerick questioned the depth of the storm drain for the South Basin. Mr. Olbert said that hydraulic capacity was the main reason but he will check if there were other reasons with Mr. Stough. POST MEETING DISCUSSION with Mr. Stough confirmed that the main reason for the depth of storm drain line was providing adequate hydraulic capacity.

The group stopped at the south end of the Central Basin on Guadalupe Road. Mr. Olbert discussed the size and location of the storm drain on Guadalupe Road. A 6'x3' concrete box will be needed for the crossing of Guadalupe Road and west to Vaou Nawi. It was determined that the SP's would specify the use of precast box sections for the work to make work quicker. Sverdrup to contact Tempe about the minimum cover required over the pipe, as well as the age, type of pipe and type of pipe flanges. Mr. Rerick was concerned about sloughing of trench from the side of the trench adjacent to the previous sewer line construction. This will cause a change order because of the increase in pavement quantity. Agreed to widen AC replacement quantities to the center of the existing sewer line, this will be shown on the plans. The replacement pavement will be placed directly on top of the culvert. Because of this, the pavement section required must be determined, and it was agreed that a slurry backfill would be specified for the culvert in the areas where the pavement sets on the top of the culvert. Town will

contact business owners adjacent to Guadalupe Road to inform them that they would experience restrictions to parking within the R/W for approximately 45 days. Sverdrup to place in specifications that contractor must complete the precast box section within 45 calendar days and provide advance notice to the businesses accordingly. SP 401 will also indicate that two lanes of traffic must be maintained at all times on Guadalupe Road.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

Bi-Weekly MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Sverdrup Conference Room
AND DATE: February 28, 2001; 10:00 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Tom Morales, Town of Guadalupe
Jim Ricker, Town of Guadalupe
Bob Gooch, Salt River Project (SRP) Water Engineering
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Bi-Weekly # 5, 10-Yr Design

SUMMARY:

The above participants met at Sverdrup's office to discuss key issues about the project.

Mr. Olbert handed out the project schedule and reviewed upcoming events.

- The schedule for the 30 % submittal was adjusted to March 14th. This adjustment in the schedule was due to the additional time required to coordinate changes to the North Basin and the addition of the Tempe Basin.
- The agency review comments for the 30 % submittal was adjusted to April 4th, with the Comment Review date set for April 9th at 1 p.m.
- The next Bi-Weekly Meeting was set for 3/27, 10 a.m. at the Town of Guadalupe's new Town Hall. Two major topics of discussion of the meeting will be the upcoming PAAC (4/11) and Public Information (5/2) meetings.
- The next major items on the schedule include potholing, and the geotechnical fieldwork. Pentacore will provide the manhole dips to Sverdrup this Friday (3/2). Sverdrup will provide the pothole locations to the FCD on 3/5. TBE will be ready to go with the pothole work when the location information is provided to them. The boring locations are being blue staked this week and Speedie is prepared to do the borings next week. Speedie has a copy of the SRP right of entry for the Tempe Basin parcel.

The Field Review Meeting held 2/22 was discussed.

- Placing hubs in the SRP O&M Road along the Highline Canal was reviewed and concluded that no hubs will be set. The survey monument coordinate points fell precisely on the R/W line work that was provided to Sverdrup by Pentacore. The record of survey map prepared by SRP will be sufficient information for the project. SRP will provide the Town and Sverdrup with a copy of

the final map for the project records.

- Sverdrup will provide the Town with plan views along the Highline Canal from the South Basin to a point approximately 400 feet south of Guadalupe Road. Two types of dimensions will be given on the plan to show the distance from the edge of the canal lining to the edge of right of way and from the center of the power poles to the edge of right of way. This will be done to assist the Town in clearing the area around existing power poles to facilitate their relocation. The information will be provided to the Town by Monday (3/5). The Town agreed to clear the area 10 feet on each side of the existing power poles from the edge of the O&M Road to the edge of the right of way line.
- Mr. Rerick said he would like to see coordinates set along the right of way line where the fences will be relocated. The new fences will be set on the right of way line. Mr. Rerick said that no TCE's would be needed for the fence work.
- The issue of access along Calle Vaou Nawi was revisited. During construction Vaou Nawi will be closed to traffic and access to the residences south of the construction area because the narrow roadway won't allow traffic and construction activity at the same time. Mr. Gooch expressed concern that if the construction increases traffic along the canal, the FCD will be responsible to block the traffic. The work on Vaou Nawi will probably take 30 days to complete because the pavement will also be replaced. Allowing use of the TCE along Mineral Street can relieve access to the lots. FCDMC risk management doesn't like the idea of mixing construction traffic with residential traffic. Mr. Rerick will explore the possibility of separating the residential traffic by providing a graded lane and TCE to Calle Tomi. Mr. Rerick said that in the SGC's we would want the contractor to put out a weekly status letter in Spanish and English to the residents along Calle Vaou Nawi with a 30-day advance notice for the first letter. The Town should also put out a letter/flyer about the use of the TCE as access during the construction period during the day. If Mineral Street were used, then the Contractor would need to provide a flagman to direct traffic. This would be mentioned in the SP's 401 traffic control.

Other issues discussed at the meeting included.

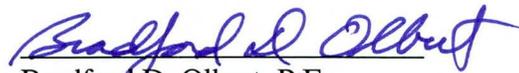
- Mr. Morales said that Supervisor was to have met with the Diamondback's yesterday to discuss landscaping the North Basin's baseball diamond. He will check the results of the meeting. Mr. Rerick would like to meet with the Diamondbacks on the issue to nail down specifics prior to the PAAC meeting. The District would also like a letter from the Town stating their desire to have Sverdrup prepare plans to locate where the underground conduit runs will be for the baseball field lighting. Mr. Morales will decide on that shortly after getting the results of the Wilcox meeting with the Diamondbacks.
- Mr. Rerick requested the letters from the Town to cover the selection of dry well in lieu of the pump station for the South Basin and another expanding the North Basin to add the baseball field. Mr. Morales said that Mr. Johnson had drafted a letter covering both subjects. Their attorney was reviewing it.
- Mr. Rerick asked Mr. Gooch about the status of the encroachment license from SRP. Mr. Gooch said that he would check with Matt Streeper about the status of the license. Mr. Rerick said that he would forward some canned language concerning coordination with SRP to Sverdrup and Mr. Gooch to include in the SGC's.
- SRP provided flow data to Sverdrup on the Highline Canal.

- Bracing of the 69 kV poles along Guadalupe should not be a problem with the new location of the storm drain line. The trench should be approximately 20 feet from the poles. When the soil boring information is available the information will be forwarded to SRP to confirm the assumption.
- The crossing of the 30-inch waterline was discussed. Sverdrup will contact the City to get the shop drawing information on the waterline. This will identify the age of the line, type of material, etc. A detail of the crossing will be needed in the plans.
- The P&S will include cautionary notes regarding working around the water line, and will identify compaction and recompaction limitations over the pipe. The lateral extent of the styrofoam placement will be set to minimize recompacting and compaction impacts on the water line.
- For the 30 % submittal, provide four sets of 1/2 size plans to SRP, one 1/2 size set and one full size set to the Town, and one 1/2 size set and two full size sets to the FCD. Mr. Rerick and Olbert will check the scope for reproduction of the utility sets.
- Mr. Olbert to check with Mr. Goh about the number of sets the City of Tempe will need for the project review and who to deliver the sets to. The City will also be provided with a copy of the preliminary drainage report that will address the City concerns on the Tempe Basin.
- Mr. Rerick reviewed the fencing for the project. No fencing will be provided around the South, Central, and North Basins after the construction is complete because of the K&G approach to the design. Only the Tempe Basin will be fenced. After the project is constructed, the FCD will fence the remnant area of the South and North Basins until the property is auctioned off. Mr. Rerick will check on the timing for removing the existing temporary fencing at the South, Central, and North Basins. Most likely the temporary fencing will be removed just before construction is started.
- Mr. Gooch and the Town requested a drawing that illustrates the location of the fencing that the District will be replacing and the open areas along the canal. Also pedestrian gate locations should be shown.

The next project meeting will be held at the new Guadalupe Town Hall on 3/27/01 at 10 a.m.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

Olbert, Brad

From: rsgooch@srpnet.com
Sent: Wednesday, March 07, 2001 10:56 AM
To: brad.olbert@jacobs.com
Cc: djr@mail.maricopa.gov; dan.stough@jacobs.com; mestreep@srpnet.com; pacherri@srpnet.com; relarchi@srpnet.com; lmtaylor@srpnet.com
Subject: FW: Guadalupe Drainage Improvement Project - Meeting Minutes 2/28 /01

Brad,

Would you please add a statement in the paragraph regarding access along Calle Vauro Nawi about my concern that if any construction activity causes increased traffic along the canal, the district will be responsible to see to it that access to that traffic is blocked.

Thanks,
Bob

-----Original Message-----

From: Olbert, Brad [mailto:Brad.Olbert@jacobs.com]
Sent: Tuesday, March 06, 2001 3:06 PM
To: Bob Gooch (E-mail); Don Rerick (E-mail)
Cc: Stough, Dan
Subject: Guadalupe Drainage Improvement Project - Meeting Minutes 2/28/01

Attached are the meeting minutes for the Bi-Weekly meeting #5 held on 2/28/00.

<<022801_Bi Weekly #5.doc>>

Bi-Weekly MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Sverdrup Conference Room
AND DATE: March 27, 2001; 10:00 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Lynn Mattson, FCDMC
Tom Morales, Town of Guadalupe
Jim Ricker, Town of Guadalupe
Joe Ruiz, Town of Guadalupe
Bob Gooch, Salt River Project (SRP) Water Engineering
Vince Gibbons, Pentacore Arizona
Rich Randall, Pentacore Arizona
Dennis Peltz, McCloskey Peltz, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Bi-Weekly # 6, 10-Yr Design

SUMMARY:

The above participants met at the Town of Guadalupe to discuss key issues about the project.

Mr. Gibbons was introduced to the attendees to discuss the C&G/Sidewalk Improvements for the Town. The following progress has been made on the design and construction of the improvements.

- The design for three of the five phases has been completed.
- Phase one construction was completed.
- Phase two construction is planned for after July 1, 2001. Timing will depend on the availability of funds. Project duration is 90 to 120 days.
- Pentacore will revise the phasing plans and provide it to the Town, District and Sverdrup.

Mr. Olbert handed out the project schedule and reviewed upcoming events.

- Geotechnical borings have been completed for the project.
- Utility pothole activities were discussed. Depending on the results, it may delay the 60% submittal. Presently, 175 potholes are needed. Sverdrup will be able to cover 80 with its budget. The FCD will pay for the remaining potholes.
- The status setting a meeting with the Diamondbacks was discussed. Mr. Morales to contact Mary Rose Wilcox.
- The next PAAC meeting is scheduled for 4/11, at 6 pm at Guadalupe's Town Hall.

- The next Bi-Weekly Meeting was set for 4/18, 10 a.m. at Sverdrup. The major topic of discussion will be the upcoming Public Information (5/2) meeting.

Landscaping costs for the project was discussed. Mr. Peltz said that a bare bones cost for the basins will run \$480,000 to 530,000. That is based upon \$0.80 – 1.00/SF for turf, DG, conc. header and irrigation system. No trees are included. Mr. Rerick said that based upon the current cost estimate, only \$400,000 is available for landscaping. The District can subtract the cost of gravel mulch from the cost of the turf (since it would have been used anyway for erosion control) to make up some of the difference but that won't be enough. The design must be reduced to fit the budget.

For the upcoming PAAC meeting, Mr. Peltz will prepare some graphics for the Council to see. The alternatives for the pathways will need to be clearly defined. Also a cost sheet must be prepared to identify the cost differential between what the District is willing to construct and the alternatives. Also, landscape graphics showing what the project can fund is needed. The council needs a clear picture of what they are getting, not just the master plan.

Mr. Rerick said that the 60% plans need to show the HCS's on the plan and profile. Mr. Mattson will meet with Mr. Stough to put together a list of HCS potholes and schedule. Mr. Mattson will also put together a schedule for the TV camera work. After the work is done, the town will be provided copies of all the pothole data sheets and layout locations.

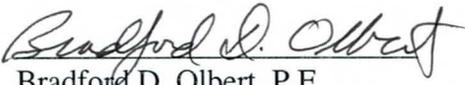
Other issues discussed at the meeting included.

- Sverdrup will submit a request to use a lower n-value for HDPE pipe.
- The Contractor can use excess FCD property as a staging area for the project.
- No stockpiling of excess dirt will be permitted on FCD property.
- The Contractor should remove only what FCD fence is necessary to construct the project.
- The FCD will reinstall fence along the new FCD right-of-way line at completion of construction.
- If the Town wants additional fencing for the South and Central Basins, it will be at the Town's expense.
- SRP may request that the project include additional fencing along the Highline Canal at SRP's expense. Mr. Gooch will provide an answer later.
- Mr. Gooch said that there would be four licenses needed from SRP. Mr. Gooch will be the point of contact for the permits. They include: the connection to the 24" SRP irrigation line in Guadalupe Road, the Tempe Basin pipe crossing under the canal, the storm drain from ADY to the North Basin, and the V-ditch and pipe along the Highline Canal.
- ADOT needs to be contacted about the bleed-off connection to the I-10 storm drain system and the right-of-way permits needed for construction.
- The Town needs to provide written comments for the 30% plans or a "no comments" letter.
- The Town needs to provide written direction on the use of HDPE pipe.
- The Town needs to request that design for the ball diamond lighting conduit be provided in this project.
- Sverdrup needs to provide right-of-way offset distances from the canal to the Town and FCD.
- Mr. Rerick provided the Environmental Phase 1 Report for the Tempe Basin to Sverdrup.

The next project meeting will be held at Sverdrup on 4/18/01 at 10 a.m.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution: W7X70300-2B

**GUADALUPE PROJECT – FIELD WALKDOWN FOR RIGHTS-OF-WAY
APRIL 10, 2001
FIELD NOTES**

The following notes represent the field observations and notes made. Numerous action items regarding P&S preparation, R/W acquisition and utility pothole work are included in these notes.

Sheet 45; ADY and Canal –

1. The catch basin near the corner of the dry cleaners will be moved about 10 feet off the northwest corner of the building. SVC to provide coordinates for the short storm drain line based on this adjustment to the catch basin.
2. The TCE identified on the plans will be changed to a PDE for acquisition purposes by FCDMC Lands. **The entire “triangular” shaped portion of the property will be acquired as the PDE.**

Sheets 21 & 22; Calle Gloria –

3. Trench drain at ADY; R/R C&G.
4. CB at 13+33; R/R C&G, SWLK, PIP fence.
5. CB at 15+00; R/R C&G, SWLK, PIP fence.
6. CB at 15+00; on S/side of street either move to the end of the school field or move to the corner at Batoua and enlarge it.
7. CB at 16+50; R/R C&G, SWLK, PIP fence.
8. Near 16+50; check out dip line down P/P on N/side of street.

Sheets 17 – 20; Calle Batoua –

9. CB at 16+40, 20+10, 21+32; R/R C&G, SWLK.
10. CB at 21+32; W/side move to the north.
11. Realign the SD to the west from 26+11 on to the north.
12. Move the Tempe Basin SD undercrossing pipe to the south to avoid private property and fence. Adjust the large catch basin accordingly.

Sheet 16; Calle Magdalena –

13. Trench drain at ADY; R/R C&G, SWLK. Possibly move to the east to avoid red colored sidewalk.
14. CB at 12+82 and 14+11 are located in the school bus bays. Must include direction in the SP's 401 regarding TCP and school bus access.

Sheets 28 – 30; Calle San Angelo –

15. Trench drain at ADY; R/R C&G.
16. All CB's along the street will require R/R C&G.
17. CB at 12+23 may need to move west to avoid dwy. Note to PIP masonry wall.
18. CATV stanchion located near CB at 16+17; adjust accordingly based on pothole.
19. CB at 21+15; move both about 35' west to avoid SWG, water line, and CATV.
20. CB at 24+12; S/side note to PIP masonry and iron wall/fence.

Sheet 31 – 33; Calle Iglesia –

21. Trench drain at ADY; add new C&G from existing C&G returns to the east to about 4 feet east of the drain. Match Pentacore C&G details, line and grade.

22. CB at 14+26; no existing C&G. Add new C&G with wing on U/S side using Pentacore detail, line and grade. AC filler as required and sawcut of existing pavement required.
23. NOTE: new C&G to be bid per MAG 340 in LF. AC pavement filler bid per MAG 321 in SY.
24. CB at 16+76; N/side move CB west into the existing valley gutter. **Need R/W permit from the Town.**
25. CB at 16+65; S/side move to the east about 10 feet. No existing C&G.
26. CB at 19+30, 20+25; no existing C&G. Add new C&G with wing on U/S side using Pentacore detail, line and grade. AC filler as required and sawcut of existing pavement required.
27. CB at 20+25; may be in conflict with water line HCS. Adjust accordingly.
28. CB at 24+30; no existing C&G. Add new C&G with wing on U/S side using Pentacore detail, line and grade. AC filler as required and sawcut of existing pavement required.
29. CB at 24+30; N/side may need to move west to clear existing gate.

Sheet 34; Calle Mexico –

30. Trench drain at ADY; match at the existing C&G return on S/side. On N/side, no existing C&G. Add new C&G with wing on U/S side using Pentacore detail, line and grade. AC filler as required and sawcut of existing pavement required.
31. CB at 14+15; no existing C&G. Add new C&G with wing on U/S side using Pentacore detail, line and grade. AC filler as required and sawcut of existing pavement required.

Sheets 23 – 27; Calle Vaou Nawi (North) –

32. For sheet 23, see sheet 27; the two pavement reconstruction areas near Calle Biehn, no existing C&G. Add new C&G with wings at both ends using Pentacore detail, line and grade. AC pavement to be set to existing grade, and bid per MAG 336 as SY.
33. CB at 13+79, 14+48, 18+28, 19+08; no existing C&G. Add new C&G with wing on U/S side using Pentacore detail, line and grade. AC filler as required and sawcut of existing pavement required.
34. CB at 23+70; move north and R/R vertical C&G. Also note R/R mailbox.
35. CB at 26+15; rework the catch basin, headwall, small pipe and large ditch to account for a sediment trap U/S of the headwall to function for both the large ditch and small pipe before entering the storm drain to the south.

Sheet 35 – 38; Calle Guadalupe –

36. The existing storm drainpipe under the intersection must be cleaned out. NOTE: This to be spelled out in the SP's 618, to include approximate length and size of the pipes, that they are approximately $\frac{3}{4}$ full of sediment.
37. The existing headwall to be removed, existing pipe to the east extended, then the new manhole structure installed. D/S of the new manhole a new catch basin will be installed. The existing drainage swale in the vicinity of this work will be backfilled to match prevailing grade on either side.

Sheets 39 – 42; Calle Vaou Nawi (South) –

38. Concern was raised on a number of design and construction issues:
 - The new C&G on the east side of the street creates some TCE acquisition concerns.
 - The fall is so flat north to south that the new C&G will need to rise and fall in order to cause the drainage to get in to the catch basins. This then creates local high points for the concentration of storm water breakouts from the street section, whereas before, the breakout was generally along the entire length of the street.

-- Another collection system might be to consider a valley gutter down the center of the street with a slotted drain underneath and frequent catch basins along the gutter, and using an invert crown for the street. This would be less effective than the new east side C&G, but would avoid the concentrated breakout locations.

-- Either the east side C&G or the valley gutter concept creates TCP and potential cost issues. The storm drain installation is rather straightforward for TCP issues. The pavement removal and replacement along with the C&G or valley gutter creates more complications.

39. Another concern is that the high cost and TCP impacts result in only a very small area of the Town being benefited. It may make more sense to do nothing here and leave to the Town when future infrastructure improvements are made.
39. Sverdrup is to prepare as soon as possible typical cross sections for the C&G concept and the valley gutter concept, and develop a broad brush cost estimate for both.
40. FCD staff will discuss the concerns and costs and make a decision on which concept to pursue.

General Comments –

41. The background planimetrics (fences, walls, etc.) needs to be slightly darker on the plans so they can be seen.
42. Where new C&G is to be installed to connect to existing C&G, the plans should direct the Contractor to match existing line and grade.
43. The SP's should state that all existing street signs shall be removed, salvaged and reinstalled by the Contractor. The cost is incidental to the work for which the signs must be removed and reinstalled.
44. The SP's should state that all mailboxes shall be removed salvaged and reinstalled. Any posts that are not reusable, shall be replaced in kind. The cost is incidental to the work for which the signs must be removed and reinstalled.
45. A General Note should be included in the plans denoting that numerous CATV lines criss-cross the street pavement at very shallow depths. These are to be P.I.P.
46. The P&S should indicate new chain link fence to be installed along the west and north sides of the Central Basin. This would be an "add-alternate" bid item per LF. The Town would then authorize to include or not in the awarded contract.
47. If the south Vaou Nawi storm drain is constructed, consideration should be given to obtaining TCE's over some of the vacant lots along the street for use as temporary parking for the residents during construction.

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION City of Tempe
AND DATE: April 16, 2001; 1:00 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Andy Goh, City Engineer, City of Tempe
Jim Bond, City of Tempe
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Meeting with the City of Tempe

SUMMARY:

The above participants met at the City of Tempe to discuss the City's 30% redline review comments for the project.

The city is concerned with water line and water service conflicts on this project. The relocation work will need to be inspected by either John Mann or Rick Johnson (480-350-8257). Use COT MAG Supplement for the sewer service relocation details and Detail T-212 for the water service line relocations.

Rename the "Tempe Basin" to the Northeast Basin.

Mr. Bond suggested the use of angled vane for the slotted drain pipes. Mr. Rerick said that the information on the angled vanes should be added to Section 618 in the Special Provisions.

The COT would consider a soil bottom with hydroseed to help maintain infiltration rates and simplify maintenance. Steve Venker will need to review the landscaping for the basin. Engineering wise, the hydroseeded bottom is fine, but Mr. Venker will have the final say. Mr. Peltz will need to review hydroseed mix with Mr. Venker. The City is concerned with the Town maintaining the Northeast Retention Basin. However, the City concluded that it could issue violations for weeds if it becomes an issue.

Sverdrup will need to provide a detail of the box culvert crossing of the 30-inch water line to the City for review. Mr. Ankeny will need to review the detail.

Signed:


Bradford D. Olbert, P.E.

Distribution: W7X70300-2B

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION ADOT Phoenix Maintenance District Office
AND DATE: April 16, 2001; 3:00 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
John Hauskins, ADOT Phoenix District Engineer
Dan Lance, ADOT Phoenix District
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Meeting with ADOT

SUMMARY:

The above participants met at ADOT to discuss the project. The purpose of the meeting was to provide an overview of the North Retention Basin system concept and construction plans with the ADOT Phoenix District and to provide preliminary construction plans and drainage report to ADOT for their review comments. The intent was to obtain the ADOT Phoenix District's approval of the bleedoff connection to ADOT's storm drain system along I-10 prior to obtaining the construction permits.

Mr. Rerick briefly reviewed the retention basin concept and the past written agreement between the Flood Control District and the ADOT Phoenix District. Mr. Hauskins said that he would be the point of contact for the reviews and approvals. Mr. Hauskins will coordinate with Mr. Dave Zimbardo for the permit. Providing preliminary plans to review now will simplify the permitting process later when the project goes to construction. The permit process should only take a couple of weeks to obtain.

Mr. Hauskins and Mr. Lance provided some preliminary comments. The outlet pipe should be jack and bored under the existing sound barrier wall in lieu of an open cut and removing a portion of the wall. Connect the pipe to the catch basin using a concrete collar and dowels. Remove the east side of the concrete apron and replace per ADOT standard details. The concept of providing a small diameter outlet pipe (6 or 8-inches in diameter) in the outlet structure with a hand-operated valve to drain low flows out of the basin was discussed. Mr. Hauskins suggested no pipe and valve. Just provide a screened 8-inch opening near the bottom of the outlet structure. Sverdrup will review the concept with the Flood Control District and the Town of Guadalupe. Mr. Hauskins will attempt to locate plans for a similar inlet structure used on another retention basin.

Sverdrup has been unable to locate as-built plans for the storm drain system located along the westbound Baseline Road off-ramp. Mr. Hauskins will try to locate as-built plans for the existing storm drain system along the off-ramp.

Mr. Hauskins will forward the drainage report to Mr. Dennis Crandall for his review. The Phoenix District should have comments back in about two weeks.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Town of Guadalupe
AND DATE: April 17, 2001; 6:00 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Mark Johnson, Town of Guadalupe
Thomas Morales, Town of Guadalupe
Margarita Garcia, Guadalupe Town Council Member
Dennis Peltz, McCloskey-Peltz, Inc.
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
PAAC Meeting #2

SUMMARY:

The above participants met at the Town of Guadalupe to discuss the project. The purpose of the meeting was to review the retention basin plans with the PAAC Members and get feedback and direction from the members on specific landscape issues.

Mr. Rerick briefly reviewed the agenda for the meeting and presented a general configuration for each of the retention basins. The presentation was turned over to Mr. Peltz to present the Master Plan for the Basin Landscaping. Mr. Peltz said that the Master Plan for each basin is the ultimate plan for the configuration of the pathways, ball fields and landscaping but is not meant to represent exactly what the FCDMC project will construct for the drainage project. Four colored drawings were presented to illustrate the Master Plan for each of the basins.

North Retention Basin – The basin grading was configured to allow for the future construction of a little league baseball diamond and a basketball court. The landscaping plan showed the location of the baseball and basketball areas, the maintenance access and pathways to and around the facility, the location of the turf and decomposed granite areas, and the drainage ditch around the west and north sides of La Lomita. The number of trees planted will depend on the amount of funds available for landscaping. There has also been some interest by the Diamondbacks to possibly fund the construction of the baseball field.

Northeast (Tempe) Basin – The design team has met with the City of Tempe a couple of times and the layout shows the basic landscaping elements acceptable to the City of Tempe. This basin is too small to provide any recreational use, so the basin will be fenced off.

Central Retention Basin – A good size practice facility for soccer is provided at the bottom of the basin. Access will be provided from all four corners of the lot. The irrigation system, turf and decomposed granite illustrated will be provided. There may not be funds available for trees.

South Retention Basin – An area for a future basketball court is provided at the bottom of the basin. Access will be provided from two corners of the lot. The irrigation system, turf and decomposed granite shown will be provided. There may not be funds available for trees.

Each of the basins will have sediment trap areas located near the storm drain outlets to help control the project maintenance.

The Town should consider a tree planting program of its own. No shrubs have been included in the Master Plan. One of the main reasons is to reduce the maintenance effort required to keep the basins looking good and to provide good visibility from roadways into the basins.

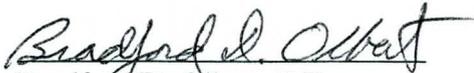
Mr. Rerick presented two specific items that he needed input from the Town Council and the PAAC members was to select a concrete form liner type and paint/stain for the project. Copies of color samples and form liner styles were given to Mr. Morales to discuss later with the council. A broken block/corrugated surface finish discourages graffiti.

Another issue is whether or not the Town would like to upgrade the paths around and in the basins. The FCDMC will provide a 4-inch thick ABC surface for the paths. If the Town would like to upgrade the path surface to asphalt or concrete, the FCDMC needs to know by the 60% submittal.

Mr. Rerick said that traffic control along the streets affected by the project is also an important issue. The town can help to inform citizens of the schedule for the storm drain construction by sending out a letter. The contractor will likewise be putting out a newsletter on the construction activity. Mrs. Garcia said that the town's citizens have experienced some delays with the earlier sidewalk project. There have been a few complaints but now we are enjoying the improvements.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

Bi-Weekly MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Sverdrup Conference Room
AND DATE: April 18, 2001; 10:00 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Jim Ricker, Town of Guadalupe
Bob Gooch, Salt River Project (SRP) Water Engineering
Tom Ankeny, City of Tempe
Dennis Peltz, McCloskey Peltz, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Bi-Weekly # 7, 10-Yr Design

SUMMARY:

The above participants met at Sverdrup's office to discuss key issues about the project.

Mr. Olbert handed out the project schedule and reviewed upcoming events.

- Pothole data due early next week (4/25).
- The next Bi-Weekly Meeting was set for 5/8, 10 a.m. at the Town of Guadalupe, Town Hall.
- 60% submittal may be delayed a couple of weeks depending on the results of the utility conflict issues and the South Vauo Nawi storm drain location decision.
- Mr. Mattson will schedule the next utility coordination meeting when all of the pothole information has been received and reviewed.

The concrete header (mow curb) used to divide the grass areas from the decomposed granite areas in the retention basins was discussed. Leave it vertical or place it on its side to reduce the concrete sidewalk width and cost. Mr. Peltz will review the costs to use AC or Concrete for the pathways. The information needs to be presented to the Town for them to make a decision next month. The FCD needs written direction from the Town to include with the project.

Sverdrup will have Speedie determine the percolation rate for the Northeast Retention Basin, either by estimating the percolation rate by reviewing the soils log or by running a percolation test. The percolation test will mean a change order for the work. Sverdrup will check with Speedie and inform the FCD what is needed. If a percolation test is needed, we will need to request access to the site from SRP.

Mr. Gooch will check on the status of the Record of Survey for the Highline Canal and when the District and Sverdrup can expect to receive copies of the recorded survey.

The PAAC meeting was last evening. There were no outstanding issues to discuss. The Town was very interested in beautification along the canal adjacent to the parks.

The Board of Supervisor's office is still trying to schedule a joint meeting with the Diamondbacks architect to discuss what they can do with the North Retention Basin. Mr. Rerick will forward information to Sverdrup on a meeting time and place.

The Town needs to provide review comments on the 30% design submittal. Mr. Morales said at the PAAC meeting that Collins-Pena was reviewing the plans.

Mr. Ankeny was concerned about the Northeast Basin function and impacts on historical drainage conditions. His concerns pertained to conditions that existed before the SRP Highline Canal was tiled west of Avenida del Yaqui. After the much discussion, Mr. Ankeny agreed that the improvements would improve the current situation although he would like to see more storage capacity provided. The emergency spillway design and location was fine.

Mr. Ankeny discussed his concerns about the impacts to the city water services caused by the storm drain location. Mr. Ankeny was comfortable with Sverdrup's design and the approach to deal with the impacts to the water system. Mr. Olbert said that Sverdrup would meet with city later to go over each point of conflict once the pothole data has been reviewed.

O&M issues with the basins were discussed and the need for sediment traps at the outlets into the basins. The Town will need to follow the O&M Manual on basin maintenance to maintain good infiltration/percolation rates. Mr. Rerick requested an outline for the O&M Manual from Sverdrup.

The FCD will resolve the Highline Canal R/W concerns at a meeting scheduled for April 26th. Sverdrup will attend the meeting. The FCD will probably have one of its On-Call Surveyors reset the R/W line based upon the Record of Survey by SRP. Placing monuments in the field along the length of the project will help with the encroachment issue.

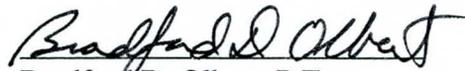
Other issues discussed at the meeting included.

- Sverdrup provided the coordinates to the storm drain at the dry cleaners to the FCD.
- Sverdrup requested the latest versions of the SGC's and SP's for a similar type project from the FCD as a good start for this project. Mr. Rerick will send updated electronic versions to Sverdrup for their use.
- The Town will provide a construction schedule of Phases 2 through 5 of the Curb and Gutter project. This information will be reflected on the construction plans.
- The Town will write a letter approving the use of HDPE for the project.
- Mr. Rerick will check with Mr. Streeper on the status of the SRP license agreements with the Town and the FCD.
- Mr. Rerick said there might be a possibility that the Town can contract with the FCD to do the basin maintenance. Mr. Rerick will check with the District.

Mr. Rerick reviewed the storm drain concept along South Vauo Nawi from the earlier field review meeting. The current design using Vauo Nawi to collect storm water presents two options. A valley gutter option, which does not collect the peak storm flows well, and a curb and gutter option, which collects the peak flows well but concentrates water in different locations posing a liability risk. Both options will impose severe traffic control problems for the local residents and tight construction issues. An alternative was raised about providing a storm drain inlet for the parcel to the east located at the northeast corner of the FCD parcel. Allow the developer of that parcel to connect into the storm drain for his flood control needs. When the developer improves the parcel, the alternative storm drain line will provide protection in the future for more parcels than a storm drain line in Vauo Nawi.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Flood Control District Conference Room
AND DATE: April 26, 2001; 10:00 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
John Sanchez, FCDMC
Ken Green, FCDMC
John Stark, FCDMC
Gene Arnold, FCDMC
Tom Morales, Town of Guadalupe
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Survey Meeting Minutes, 10-Yr Design

SUMMARY:

The above participants met at the Flood Control District's office to discuss key issues about survey for the project. Mr. Rerick mentioned that the Salt River Project has for several years claimed that the residents of Guadalupe have been encroaching onto SRP's canal right-of-way. This meeting was to review existing surveys results and give further direction in dealing with the issue.

Mr. Green said that the two surveys by Pentacore and SRP are nearly identical (within hundredths along the Highline Canal) except in one location. The one location is along the canal between Calle Batoua and Avenida del Yaqui. In this location, the two surveys diverge because slightly different radius was used on one curve. Pentacore used a curve radius from a subdivision plat and SRP used a curve radius from its canal data. The difference between the two surveys is about a foot. The Highline Canal predates the subdivision. Since the FCD project work through this area is minimal (i.e. minor swales), the difference does not affect the project.

The aerial planimetric work does not have a direct tie to the project controls. In Mr. Green opinion, the line work appeared to match well with other survey information.

Mr. Green and Mr. Stock will speak with John Rose at MCDOT about the possibility of using his survey crews for staking the Highline Canal right-of-way line. Work to be done include, 1) notify property owners, 2) have someone on the crew who is fluent in Spanish, 3) monument the R/W line and provide a consistent offset line, and 4) photo document the work that is done. If MCDOT is not available, the FCDMC On-Call Consultants will be used (most likely Pentacore). Mr. Rerick will identify the limits of the survey work to be done. The survey work needs to be completed by the end of May. This will allow SRP to relocate its power facilities along the canal. After the project construction

work is done, the survey will need to be reset.

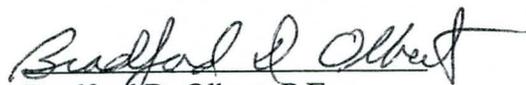
Mr. Morales will send out a letter to the residents about the survey work along the canal.

Mr. Stock will check with SRP on the recording of the Record of Survey. Mr. Sanchez will run a 50 scale plan view showing the R/W and planimetric information.

Mr. Morales said that their email provider is out of the business. So the Town no longer has email capability. Please send information by FAX.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

LANDSCAPE MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Sverdrup Conference Room
AND DATE: May 1, 2001; 1:30 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Dennis Holcomb, FCDMC
Tom Morales, Town of Guadalupe
Dennis Peltz, McCloskey-Peltz, Inc.
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Landscape Meeting Minutes, 10-Yr Design

SUMMARY:

The above participants met at Sverdrup's office to discuss key issues about landscaping for the project. Mr. Rerick stated that the District was interested in knowing the 1) costs for the basic landscaping package, 2) costs for the ultimate landscaping package, 3) get assurances from the Town that they will be able to care for the new facilities.

Mr. Morales said that the Town is changing its budgeting process to make sure that funds are allocated to the maintenance department to properly care for the landscaping, dry wells and storm drains.

Mr. Peltz figured that the basic system would cost approximately \$630,000. The basic package includes the turf, decomposed granite, concrete header and irrigation system. Normally gravel mulch is used to control erosion in the basin. Deducting the gravel mulch as a credit for the landscaping costs (since the turf and decomposed granite would provide erosion protection), the basic cost for the system is reduced to \$444,000. The ultimate system would add trees (24-inch box trees) to the basins. The cost of the trees would add approximately \$24,500 to the North Basin, \$26,000 to the Central Basin, and \$23,000 for the South Basin.

A meeting with the Diamondbacks is still pending. The cost of the some of the landscaping package may be picked up by the Diamondbacks organization. The Diamondbacks may also provide funds to light the ball field. Mr. Rerick said he has been calling daily to arrange the meeting.

Mr. Holcomb said the new landscaping policy would allow up to \$50,000/acre as long as the cost is justified. This would amount to \$795,000 (15.9 acres @ \$50,000/acre).

Since adequate landscaping funds are available for the basic system and the trees desired for the

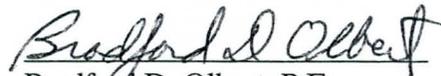
ultimate package, the District was looking for some assistance by the Town to help reduce project costs. Mr. Morales said that the Town would like to assist in planting some of the trees for the project. Mr. Peltz said that the North Basin should be completed because it will be the main focus of the project and suggested that only half of the trees be planted in the Central and South Basins. The Town at their own timing and expense can plant the remaining trees by following the Master Plans prepared for each of the Basins.

Mr. Rerick said that the Northeast Basin (Tempe Basin) landscaping package is a requirement of the project by the City of Tempe. This cost would have to be born by the project regardless so it is not considered a part of the landscaping funding package.

Mr. Peltz brought up another issue concerning upgrading the perimeter and access roads around the basin. The basins could be upgraded by using a 2-inch thick AC surface over the 4-inches of AB or by placing 4-inches of concrete over the AB. Mr. Rerick suggested that Mr. Peltz bring costs to the next bi-weekly meeting for review.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees



*Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, Arizona 85009
(602) 506-1501
FAX: (602) 506-4601*

DATE: May 2, 2001

TO: Tom Johnson 

VIA: Dennis Holcomb 

FROM: Don Rerick

SUBJECT: Guadalupe Project – Increased Landscape and Aesthetics Funding

The purpose of this memo is to recommend that increased landscape and aesthetics funding is provided for the subject project.

On April 26, 2001 the funding tables provided in the District's Landscape and Aesthetics Policy were revised. Using the revised funding table, the allowable funding for the project is calculated as →

15.9 acres x \$50,000/acre = \$795,000
6% x \$3,000,000 (est. construction cost) = \$180,000
Total allowable funding = \$975,000

On May 1, 2001 the District (DJR and DBH), the design consultant, and the Town Manager met to discuss landscape and aesthetic costs and funding. The discussion points were →

1. The 30% master plan landscape costs are estimated at \$629,000 plus a 10% contingency of \$63,000 bringing the total to \$692,000.
2. A credit against this cost must be provided to account for the minimal gravel mulch applicatoin over the entire basin areas that would be required as part of the project for dust and erosion control. The estimated cost of the gravel mulch is \$186,000.
3. The tree planter size to be used for the three basins within the Town limits will be 24" box. The trees in the Northeast Basin located in Tempe would be 15-gallon.
4. The full master plan design landscape elements would be installed in the North Basin and the Northeast Basin as part of the project.
5. The full master plan landscape elements for grass, irrigation, and decomposed granite would be installed in the Central and South Basins.
6. Only half the 24" box trees would be installed as part of the project in the Central and South Basins. The Town would take ownership of the planting of the remaining trees in these two basins. This provides an estimated cost reduction of \$26,000.

7. The 30% master plan aesthetic element costs for stabilized decomposed granite multi-use paths is estimated at \$16,000, and concrete formliner and paint/stain costs are estimated at \$50,000.
8. The asphalt concrete multi-use path for the South Basin would be the responsibility of the Town providing additional cost savings to the project. The project would install only the ABC for the path as would typically be done for a project.

Operation and maintenance was discussed with the Town Manager. Tom Morales stated that the goal of the Town's next budget cycle is to include sufficient funding, estimated at \$50,000 per year, for the operation and maintenance of the four basins. The Town will decide the most cost-effective way to achieve satisfactory operation and maintenance of the basins using either Town maintenance staff or contracting out the work.

Conclusions →

1. The estimated cost of the desired landscaping and aesthetics for the project is estimated to be \$546,000. This is approximately 56% of the allowable funding for the project per policy.
2. The Town is contributing to the cost of the landscaping and aesthetics by taking ownership for the installation of half the trees in the Central and South basins, and the paving of the multi-use path for the South Basin.
3. The project costs may be reduced further if/when the Diamondbacks Charities identifies what landscaping it will take responsibility for as part of their installation of the Little League baseball diamond in the North Basin.
4. The previous policy allowable funding, which was reduced to account for the additional 0.60 acres for the North Basin Little League baseball diamond, was \$376,000. The new amount of \$546,000 is only a 45% increase in funding.

Recommendation →

Allow the installation of the master plan landscape and aesthetic elements as presented above at an estimated cost of \$546,000.

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Town Hall, Guadalupe, AZ
AND DATE: May 3, 2001; 6:00 to 8:00 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Thomas Morales, Town of Guadalupe
Mark Johnson, Town of Guadalupe
Dennis Peltz, McCloskey - Peltz, Inc.
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Public Information Meeting – 10-Yr. Design

SUMMARY:

Visitors for the open house meeting began arriving at the Council Chambers at 5:45 p.m. Each visitor was asked to sign-in at the front table. They were given a handout that identified the purpose of the meeting, provided information on the history of the project, what work is being done at the present time, informed them of what to expect in the near future, how they can participate, and who they can contact. The handout was prepared in both Spanish and English.

Displays on hand for the visitors to view included:

- An aerial site map of the town at a scale of 1" = 200' that showed the location of the storm drain improvements in a schematic format.
- Four plan view drawings showing the basic landscape facilities being planned for each of the four retention basins.
- Three plan view drawings showing the ultimate landscape plan proposed for North, Central and South Retention Basins. The three drawings were presented in a half size format and shown on a single foam core board.

Mr. Morales opened the meeting at 6:00 pm and introduced those present, Mr. Rerick and the consulting staff that were working on the project. Mr. Rerick presented a brief overview of the project and the boards available to review. Construction would most likely begin the first of next year on the storm drain system and the retention basins. Attendees were asked to write any comments they may have down on the comment sheet at the back of the handout. Visitors were taken through the displays and asked to comment on what was presented.

The following is a summary of the issues and concerns that were raised by the public during the meeting and/or submitted on the comment forms.

Concerns about the Project

One resident of Tempe said that he lives along the canal just across from the proposed South Basin. He likes his view of South Mountain and wanted to know what the proposed landscaping plan looked like for the South Basin. The resident did not want his view obstructed by the proposed trees. He asked if any lighting was proposed for the basin and will it be fenced off. The Tempe resident was informed that neither lighting nor fencing would be provided for the South Basin as a part of the project. However, the Town could install the equipment at a later date.

A property owner of Guadalupe was concerned about how the access to his property was going to be affected. His property was located south of Guadalupe Road adjacent to the south town limits. He was in favor of any plan that would separate the construction traffic from the residential traffic. He thought this project would help the community a lot.

Another resident of Guadalupe said that his property is located south of Guadalupe Road and east of Calle Vaou Nawi. He said that in the past when it rained hard he would get a lot of runoff flowing across his property with it ponding adjacent to the Highline Canal. It was pointed out to the property owner that recent retention basins located to the west of his parcel along with the future storm drain improvements along Guadalupe Road will improve the drainage situation at his property.

A town resident (new PAAC member) reviewed the project and supported a concept that removes the storm drain from South Calle Vaou Nawi and places an earthen channel on the Yaqui tribal parcel approximately 200 feet to the west. He liked the proposed landscape plans for the retention basins. He noted an area with drainage problems that was located just east of the Guadalupe Road Bridge over I-10 near Calle Maravilla. Flow from the bridge area is discharged along the north side of Guadalupe Road. The runoff flows east to the intersection of Guadalupe Road and Avenida Del Yaqui. The resident was told that the project does not include storm drain improvements to the west of Avenida del Yaqui. The runoff from this area will be picked up at the catch basins located at the intersection of Guadalupe Road and Avenida del Yaqui.

Another town resident (also a new PAAC member) reviewed the project and wanted the Town and Flood Control District to push hard for the development of the new baseball field in the North Retention Basin. He wanted to know if lighting the North Retention Basin was included with the project. He was excited to hear that the Diamondbacks baseball team may help fund the ball field.

Written Comments Received at the Public Meeting

Below are written comments turned in at the public meeting. If the person making the comment gave an address, the community the person is from was listed at the end of the comment in parenthesis.

The people have waited a long time. Thank you for your dedication in this project. It has been a joy working with you – Good luck to all of you. [Guadalupe]

I believe the south basin will become a haven for the criminal element and will be impossible for the sheriff to protect and control. I would suggest a xeriscape at the south basin to save on water and a security fence to keep people out. [Tempe]

The project appears to be very beneficial to the Guadalupe Community – I live to the north and the North Basin would be very beneficial to our Barrio (Neighborhood) as a relief from the flooding on Saguaro & Cerritos and as a place for Community functions. FCDMC, it appears that you've got your stuff together. The Town has a considerable amount of work and many hours of finding the money to continue these locations for community use. But I do have one question of you. Starts in 1/2001, how soon will you finish and which one goes in first. I'd like to say to Mr. Morales, if you need help or opinions just ask. [Guadalupe]

Email Received After the Public Meeting

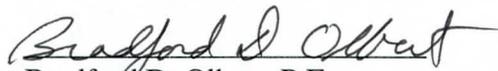
I am a member of the Stonegate Homeowners Association Board of Directors. I have been unable to attend your public information meetings due to scheduling conflicts or lack of notice. Since our property is so close to the project (Northwest corner of Hardy and Guadalupe), I thought it might be important for us to know what this project is all about.

I would appreciate it if one of you could write me back with information on the project. We would like to participate in the process as knowledgeable community members. Any information that you can provide will be greatly appreciated.

Thank you in advance. [Tempe] **Project Note:** The public meeting handout and comment sheet was emailed back to the individual in response to the request.

The meeting adjourned at 8:00 p.m. Twenty-two persons attended the meeting with 14 persons signing in at the front table. Three persons left comments at the meeting and one person emailed their comment to Sverdrup.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B

Bi-Weekly MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Sverdrup Conference Room
AND DATE: May 8, 2001; 10:00 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Tom Morales, FCDMC
Jim Ricker, Town of Guadalupe
Bob Gooch, Salt River Project (SRP) Water Engineering
Dennis Peltz, McCloskey Peltz, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Bi-Weekly # 8, 10-Yr Design

SUMMARY:

The above participants met at Sverdrup's office to discuss key issues about the project.

Mr. Olbert handed out the project schedule and reviewed upcoming events.

- The next Bi-Weekly Meeting was set for 5/23, 10 a.m. at the Town of Guadalupe, Town Hall.
- 60% submittal will be delayed a couple of weeks until June 15th because of utility information gathering delays.
- The next PAAC meeting will be scheduled for July 12th.

The status of the utility coordination and pothole work was reviewed. The initial pothole data, including the sewer camera tapes, have been received and are being plotted. The utility tracing data has just been received. Sverdrup is reviewing the data now to determine conflicts and sewer profile adjustments. A meeting was set for May 14th, 10 am at Sverdrup's office to review the conflicts/changes. A utility coordination meeting will be held on the 16th, 1 pm at FCD. Sverdrup to identify potholes needed on sewer connections and any other potholes based upon the tracing information.

The pothole data sheets, sewer videos, and the final plans showing pothole locations will be provided to the Town for their records and use.

Mr. Rerick said the plans must show an HCS detail of options for the Contractor to route around the storm drain.

The last Public Meeting went well. For the next public meeting, the number of English handouts will be increased and the number of Spanish handouts decreased. All of the English handouts were taken during

the last meeting and only one copy of the Spanish version was taken.

Mr. Peltz presented preliminary details and rough costs for the multi-use paths. As a minimum, a concrete header and 4" of ABC will be provided. The AC path will utilize the concrete header while the concrete path will not need a header. Mr. Peltz will finalize the details and provide a spreadsheet to present the costs to the Town. Either the Town can select the section it wants or provide three alternatives in the bid package and the Town can select the alternative based upon the cost differential between the base bid (4" ABC) and the cost of the alternatives.

The Town is planning to widen Guadalupe Road a couple of years after the flood control project is completed. The decomposed granite used on the Central Basin needs to stop short a couple of feet from the north edge of the existing pavement (which is approximately the existing R/W line).

Other issues discussed at the meeting included.

- The rough grading plan for the Central Basin was completed. The rough grading plan for the North Basin will be completed by next week.
- Pentacore will be providing the Highline Canal R/W survey for the FCD. Scope is nearly complete. Pentacore should be in the field next week to begin the survey work.
- The FCD will provide Sverdrup with typical SP language for landscaping maintenance and establishment periods for turf and trees.
- The Town provided a letter approving the use of HDPE for the project.
- The Town provided a letter requesting an alternate bid item for fencing on the north and west sides of Central Basin for the project.
- A conference call has been scheduled with the Pascua Yaqui tribe on May 10th at FCD. Call will discuss a possible drainage channel on the east side of their property.
- The FCD will have the drainage easement strip surveyed by Pentacore after access rights have been obtained.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B



*Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, Arizona 85009
(602) 506-1501
FAX: (602) 506-4601*

DATE: May 11, 2001
TO: Priscilla Storm, Pascua Yaqui Tribal Office
CC: Tom Morales, Town of Guadalupe
FROM: Don Rerick, Project Manager
SUBJECT: Guadalupe Drainage Improvements Project –
Drainage Feature on Yaqui Property; Teleconference on May 10, 2001

The following is a summary of the teleconference on May 10, 2001. Following the summary is additional information requested by Ms. Storm.

Participants:

Priscilla Storm of the Tribe; 520-879-5891 or 520-879-5122; yaquifutureps@yahoo.com
Tom Morales, Guadalupe Town Manager, 480-505-5365; no e-mail address at this time.
Brad Olbert, Project Manager, Sverdrup Civil Inc., 480-763-8612; brad.olbert@jacobs.com
Gene Arnold, FCDMC Lands Division, 602-506-4744; ega@mail.maricopa.gov
Don Rerick, FCDMC Project Manager, 602-506-4878; djr@mail.maricopa.gov

Mr. Rerick briefly described the project as a storm drainage collection system consisting of storm drains and ditches capturing the 10-year storm event and conveying these storm flows to four retention basins, three located within the Town and one located on the east side of the Highline Canal in Tempe. This is a cooperative project via three different Intergovernmental Agreements among the Town, the Flood Control District and the Salt River Project (SRP).

The project began as a study in 1996 and is now in the final design stage, with 60% plans due in June, and construction to begin in January 2002.

Mr. Rerick then described the drainage feature necessary on the Yaqui property to facilitate capturing of drainage near the south end of Calle Vaou Nawi. The proposed feature consists of a small drainage collection channel running north/south along the far east side of the Yaqui property. The prevailing drainage in the Town is from west to east, and this channel would capture 10-year storm flows before they would enter the residential area immediately east of the Yaqui property, and convey them south to an area inlet. From the inlet they would be conveyed by storm drain pipe to the South Basin located on District property. This feature provides much needed benefit to the residential area along south Vaou Nawi as well as provides an outlet for drainage on the Yaqui property when it develops.

The channel would convey flows of between 30 and 50 cubic feet per second (cfs) and could be either earthen with a gravel mulch plating or could be reduced in cross section size by using shotcrete or gunite lining. The earthen channel requires approximately a 50 foot wide Permanent

Drainage Easement (PDE), the shotcrete lined channel would require approximately a 35 foot wide PDE. The channel and easement could be used and possibly modified by the Tribe in the future, subject to the review and approval of the Town and the District, recognizing that the primary design function of the channel could not be changed. A packet of information already provided to the Tribe included a plan view and cross section of the earthen channel. A plan view and cross section of the shotcrete lined channel will be provided to you via the US mail.

The District also mentioned the need for a Temporary Construction Easement (TCE) along the channel alignment up to the south dead-end of Calle Tomi. The purpose of this easement would be for construction access, and would be returned to the Tribe at the end of construction in as good as or better condition than found. The plan view and cross section of the shotcrete channel details present the limits of the proposed TCE.

Ms. Storm stated that she would be meeting with the Executive Council and the tribe's attorney within the next 30 days to present this request to them for their consideration. The PDE and TCE requests could be on the Tribal Council agenda by the end of June. Ms. Storm indicated that it might be necessary for a representative of the project to be present at the Council meeting. With sufficient advance notice the District can attend as required.

Ms. Storm asked what the acquisition options are for the District. Mr. Morales, Town Manager responded to the question by stating that the Town and District wish to work cooperatively with the Tribe recognizing that the project benefits the Town and the Tribe. However, Mr. Morales also mentioned that condemnation is also an option but is not something that the Town or District would wish to pursue, and would be done only if absolutely necessary.

Mr. Arnold of the District Lands Division briefly described the acquisition process. This includes fair market value appraisal of the property, preparation of map and legal descriptions of the PDE and TCE, and then making an offer to the Tribe. The time frame can be as long as 45 to 90 days. Mr. Rerick requested that the appraisal process begin as soon as possible to speed the process along.

Ms. Storm requested that an overview graphic of the project be provided for her review and use. This will be done by US mail as soon as possible. Ms. Storm also mentioned that the Tribe's engineering consultant was Leon Vicars of Kimley-Horn. He can be reached at 520-615-9191, FAX 520-615-9292.

Ms. Storm asked if the residents of the Town and in particular residents who are members of the Yaqui Tribe have been informed of the project and had an opportunity to participate in its development. Mr. Morales responded that the residents have had numerous opportunities to learn about and participate in the development of the project. Ms. Storm requested information regarding public and Town Council participation in the development of the project. These are provided as follows.

Public Information Meeting at the Town – November 4, 1999

Project Aesthetics Advisory Committee (PAAC) Meeting at the Town with Town Council and citizen representatives – December 14, 1999

PAAC Meeting at the Town – February 16, 2000

Public Information Meeting at the Town – February 22, 2000

Town Council Meeting – April 13, 2000

Town Council Meeting – June 29, 2000

Town Council Meeting – July 27, 2000

Town Council Meeting – August 31, 2000
Town Council “working session” meeting – January 4, 2001
Town Council Meeting – January 25, 2001
Public Information Meeting at the Town – January 31, 2001
PAAC Meeting at the Town – April 17, 2001
Public Information Meeting at the Town – May 3, 2001

The Public Information Meetings were announced via the newspaper, and notices that were both mailed and/or hung on front doors. The notices as well as information sheets were printed in both Spanish and English. Examples of the notices and information sheets will be provided to you via e-mail and paper copy in the mail.

The District looks forward to working with the Pascua Yaqui Tribe and staff to successfully complete the project and in particular the proposed drainage feature located on Tribal property.

If you have any questions or require further information please do not hesitate to call me at the number and/or e-mail address listed above.

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION ADOT Phoenix Maintenance District Office
AND DATE: May 14, 2001; 1:00 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Lynn Mattson, FCDMC
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Meeting to Review Pothole Data

SUMMARY:

The above participants met at Sverdrup to discuss the recent pothole data for the project.

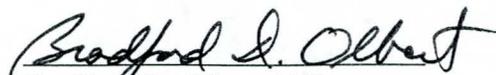
Sverdrup had completed importing and annotating the recent tracing of utilities prepared by TBE. The pothole data was still being plotted vertically in the profiles.

Most of the pothole data is returning information that is as expected. There will be a few adjustments to the vertical profile on several east-west streets because of the additional information.

The major unanticipated conflict was with the 30-inch water line in Guadalupe Road. The current design using a box culvert passing over the waterline does not work because the existing 30-inch water line is two feet higher than the as-built plans show. This leaves little room for even a pipe to cross over the water line. Going under the 30-inch water line puts the storm drain in conflict with an existing 12-inch sanitary sewer line. Going under the existing water line is the best approach. This will require the sanitary sewer line to be relocated south approximately 10 feet with the new storm drain line placed at the location of the existing sanitary sewer. The sanitary sewer line needs to be videotaped to identify all of the service connections to determine if there are any other issues. By using two 42-inch pipes the depth of the vertical change will be minimized so that the bottom of the retention basin does not have to change. The sewer relocation work will require three new sheets and is beyond the current scope of work.

Mr. Rerick would like the relocation of the US Sprint line on Avenida del Yaqui to be added to the Supplemental General Conditions.

Signed:


Bradford D. Olbert, P.E.

Distribution: W7X70300-2B

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Flood Control District
AND DATE: May 16, 2001; 1:00 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Lynn Mattson, FCDMC
Greg Wilson, Salt River Project
Tom Ankeny, City of Tempe
Norma Jardin, Southwest Gas
John McNealy, El Paso Natural Gas
Judy Irwin, US Sprint
Matthew Phillips, Qwest
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Utility Coordination Meeting, 10-Yr Design

SUMMARY:

The above participants met at the District to discuss utility conflicts and issues for the above project.

Mr. Mattson presented an overview of the project schedule. The final plans and specifications for this project are due the end of September. Utility relocations for this project must be complete before the project is advertised. Submit prior rights information to the FCDMC ASAP if you have not already.

US Sprint - The existing US Sprint fiber optic line in Avenida del Yaqui will not be relocated at this time. A wait and see approach will be used. If the line is exposed during excavation of the 48-inch storm drain then Sprint will relocate the line within 24 hours of being notified. The FCD wants this approach in writing from Sprint. Directions will be given to the Contractor in the SGC's of the possible conflict.

El Paso Natural Gas - Two 48-inch pipes are being designed to go under the existing gas line in Guadalupe Road. The span length of the open trench is expected to be 12 feet. El Paso NG had no problem with the pipe not being supported during construction. Their pipe can handle the span length. The SGC's will have names and numbers for El Paso NG telling the Contractor to contact them 48 hours in advance of work being done around their pipe.

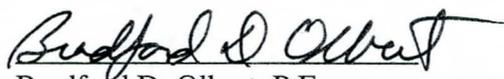
Qwest - A fiber optic duct bank located in Guadalupe Road is the major concern for Qwest. The FCD has ordered more pothole work for this duct bank. The northern most limit of the duct bank needs to be obtained. Minimum clearance for the duct bank is 12-inches. Mr. Matthews will provide a contact name and number for an on site inspector.

SRP Power (Distribution) – SRP has 69 kV power poles that parallel the proposed work in Guadalupe Road. Mr. Wilson would like to review soils information along Guadalupe Road. Their engineers can determine how close excavation work can be to their 69 kV poles without bracing. Without soils information, 25 feet is the minimum distance. The proposed sewer relocation is the critical element that may require bracing of the power poles. Mr. Mattson said that several underground 12 kV lines were found in the field by TBE (tracing) that were not shown on SRP's as-built plans. Additional potholes will be needed for the 12 kV underground electric lines.

City of Tempe (Water) – The redesigned storm drain line under the City's 30-inch water line was discussed in detail. The water line must be supported in place. The SGC's will give guidance to the Contractor on the support. Contractor must design the support and be approved by the FCD. A contact name and phone number will be given in the SGC's for an on site inspector. Mr. Ankeny said the 6-inch water line along Calle Vaou Nawi near the Highline Canal V-ditch will also need to be relocated. This may affect several water service lines and sewer connections. The water line is cast iron pipe and needs to be replaced with ductile iron pipe material. Mr. Ankeny said that the City does not have any jurisdiction over the sewers in Guadalupe only the water. The Town only pays for the treatment of the sewage from the town. There is no maintenance agreement.

Southwest Gas – The proposed 48-inch storm drain line on Avenida del Yaqui will affect an existing 2-inch SWG line. Ms Jardin said that the conflict will go away as SWG plans to move their line to the east side of the road when they upsize the line to a 4-inch pipe. SWG will be accelerating this work.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION AND DATE: Northeast Retention Basin Site adjacent to the Highline Canal
May 21, 2001; 1:00 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Andy Goh, City of Tempe
Jim Bond, City of Tempe
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Field Meeting with the City of Tempe

SUMMARY:

The above participants met at Northeast Retention Basin (formerly known as the Tempe Basin) site to discuss the basin design. The City reviewed the basin design and wanted to explore the effect to the site of increasing the basin capacity to hold the 100-year storm volume. Increasing the basin volume to hold the 100-year storm volume was possible but it would require the berm around the basin to be raised or the bottom of the basin to be lowered. The pros and cons of each approach were discussed. The following is the consensus of the discussion and will be reflected on the 60% plans.

- Set the berm height at a constant elevation 1223.0 and install a cutoff wall around the basin to control any possible erosion. It may be necessary to install some form of downstream erosion protection as well.
- Lower the bottom of the basin to provide storage volume for the 100-year storm event.

Although it would be easier to raise the berm height to increase the basin's volume, raising the berm height would negatively affect the aesthetics for the properties adjacent to the site and would reduce the efficiency of the storm drain system. Maintaining a constant berm height at elevation 1223.0 and lowering the bottom of the basin will improve the site's aesthetics and improve the hydraulics of the storm drain system. Though these modifications will be made as part of the project, the project is not designed to intentionally deliver the 100-yr. storm event runoff to the basin. Certain storm event conditions and topographic conditions along the canal may cause such volumes of water to find their way to the basin. Finally, these changes will require input from SRP as part of the 60% plans submittal.

Signed:


Bradford D. Olbert, P.E.

Distribution: W7X70300-2B
Meeting Attendees

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Town of Guadalupe Conference Room
AND DATE: May 23, 2001; 9:00 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Lynn Mattson, FCDMC
Tom Morales, Town of Guadalupe
Terri Leija, Supervisor Wilcox's staff
Jeff Jacobs, Arizona Diamondbacks
Ron Lopez, Summit Builders
Dennis Peltz, McCloskey-Peltz, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Diamondbacks Meeting Minutes, 10-Yr Design

SUMMARY:

The above participants met at the Town of Guadalupe to discuss key issues concerning potential funding/construction a Little League baseball field and landscaping for the North Retention Basin of this project. Mr. Rerick gave a short presentation of the scope of the Drainage Improvement Project with a focus on the North Retention Basin. Mr. Peltz presented an overview of the landscaping features of the North Retention Basin area.

Mr. Rerick suggested that integration of improvements for the ball field with construction of this project would be best if there were a clear division of work zones within the basin. Mr. Rerick asked if the Diamondbacks could take over the landscaping/ball field improvements for the east half of the basin (approx. 2.65 acres) or some other easily defined area of the basin. The Diamondbacks indicated that typically they only bring \$150,000 toward a project. That amount does not go very far but would include items such as minor grading work on the ball field, fencing, lighting, irrigation, turf, and placement of the turf within the fenced area, and a scoreboard. So the area would be restricted to the field itself.

The information that Mr. Jacobs and Mr. Lopez gather today at this meeting will be taken back to the Diamondbacks for consideration of participation.

Areas of coordination were discussed. They included:

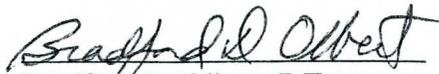
- Lighting for the field will require a power source. Typically the power would come from the same location that the irrigation system uses. The District will be having a meeting with SRP to identify the location and requirements of the power drop for the project. The construction plans

will make provisions for power to be used for both the ball field and the irrigation. To simplify construction of the field it was suggested that the conduits for the lights be installed when the irrigation system for the basin is installed. The Diamondbacks can supply a basic schematic layout of what is needed. Mr. Peltz will contact the Diamondbacks for the information and add the facilities to the landscape plans.

- The condition of the soil was a concern of the Diamondbacks. Most soils within the valley need to have supplements added or top soil brought in to maintain healthy grass. Agronomy testing will be obtained to check the condition of the soil. Samples will be taken at grade and at the level of the field.
- The grassed area outside the ball field will be seeded. The Diamondbacks would use sod for the ball field area. The seed mix around the ball field should use Western Sod seed that is similar to what is used for BOB sod. The Diamondbacks can give a name for Dennis Peltz to contact about the seed mix. It was suggested that if the Town can find the funding, that the grassed areas for the basin use sod instead of a seed mix. That the way the entire basin will be available as a park immediately after completion instead of waiting until the grass grows. The cost of the difference between the seed and sod would be the Town's responsibility.
- The project will grade the bottom of the basin where the ball field is located with a cross slope to the northeast of approximately 1 percent. This was fine with the Diamondbacks.
- Adequate parking for ball field activities was a major issue with the Diamondbacks. Mr. Morales said the Town was working on an agreement with SRP to utilize their right-of-way adjacent to the basin for parking. The Diamondbacks wanted to see some evidence that SRP will provide the space for the parking. This issue will be critical to the approval of their participation in the project.
- The Diamondbacks will provide specifications on the lighting, electrical conduit sizing, power needs, and grass mix to Dennis Peltz by June 4th.
- Irrigation requirements – The project will install irrigation water lines up to the limits of the ball field that will meet the field's irrigation requirements. The ball field will have different zones that the rest of the basin. The hardware used on the field will be standardized as much as possible with the rest of the project hardware to simplify future maintenance needs.
- Information will be provided in the Supplemental General Conditions (SGCs) concerning contractor coordination for the ball field improvements. The SGCs will indicate that the Diamondbacks' contractor will be on site and to allow time in the work schedule to allow installation of the ball field.
- If the Diamondbacks' contractor is on site during construction, liability and license issues must be addressed. Mr. Rerick will check on permits required.
- Mr. Jacobs and Mr. Lopez will visit the site with Mr. Peltz after the meeting. Mr. Jacobs will be the contact person for any design issues. His phone number is 602-462-6553.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

Bi-Weekly MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Sverdrup Conference Room
AND DATE: May 23, 2001; 10:25 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Lynn Mattson, FCDMC
Tom Morales, Town of Guadalupe
Dennis Peltz, McCloskey Peltz, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Bi-Weekly # 9, 10-Yr Design

SUMMARY:

The above participants met at the Town of Guadalupe to discuss key issues about the project.

Mr. Olbert handed out the project schedule and reviewed upcoming events.

- The Field walk through on the 60% plans will be scheduled for 7:30 am on July 12th.
- The comment resolution meeting will be held at 10 am on July 12th.
- The next PAAC Meeting is scheduled for July 12th at 6 pm at the Town Hall. Since several members of the Council will be present, this will be a special Council Meeting as well.
- The next Bi-Weekly Meeting is set for June 6th, 10 a.m. at the Guadalupe Town Hall.

Pothole Status

- A tentative meeting was set for May 29th at Sverdrup's office to review pothole data with adjusted storm drain pipe profiles. The meeting will help to determine where the next round of pothole data will be taken. Utilities to be potholed include several HCS's, water services, and gas services that will be a conflict. Others include the ELPNG line north of the Northeast Basin and the telephone duct bank on Guadalupe Road.
- The SGC's need to include direction to the contractor concerning the possible bracing of SRP's 69 kV power poles along the south side of Guadalupe Road. If bracing is necessary, the FCDMC will cover the cost. Sverdrup to submit to Don and Lynn a copy of the information that SRP (Greg Wilson) needs to decide if bracing is required (P&P sheets, cross section showing utilities, and soil boring information). SRP needs two copies for review.

Yaqui Parcel Status

There appears to be some encroachments by private property owners onto the northwest corner of the South Retention Basin and the east edge of the Yaqui parcel located adjacent to the South Retention Basin. The District has an On-Call survey consultant identifying the north property line of the south basin, the east property line of the Yaqui parcel and identifying any features (buildings, fences, vegetation) that may be encroaching on the two parcels. This information may affect the location of proposed storm drain line and channel.

Comments on the Meeting with the Diamondbacks

Additional soil testing is needed to determine if the existing soils at three of the retention basins can provide the long-term nutrient support for grass. Sverdrup to check to see if some of the work has been done by Speedie. If additional testing is needed, a change order will be needed. Use the following number of soil tests/borings for the each of the basins: North – 6 at grade and 6 bottom of basin; Central – 2 at grade and 2 bottom of basin; South - 2 at grade and 2 bottom of basin.

There are three situations that can occur regarding the soil in the basins. 1) The topsoil can be stock piled on District property. The basins can be over-excavated and replaced with the stock piled topsoil. 2) The basins can be over-excavated and replaced with the imported topsoil. 3) The soil in the basin can be scarified at the bottom of the basin and soil amendments added to improve the soil. Use Section 425 to identify the tasks involved.

The Town needs to pursue the agreement with SRP concerning the use of SRP land for parking. Possibly a letter from SRP to the Diamondbacks will suffice.

The Town also needs to write a letter to the District to request the following items if desired:

- Lighting conduit design and construction for the North Basin
- Fencing along the north and west sides of the Central Basin
- Type of bollard or pipe gate at basin access points and ramps. The bollards can be fixed or removable or a pipe gate can be used with fixed bollards.

The District will schedule a meeting with SRP Customer Service Staff to determine where power drops to each of the basins can be located. The power will operate the irrigation controls for each of the basins and lighting needs for the north basin. Work needs to be done before the Contractor starts his work.

Other Issues

District to provide a copy of the ACDC fence details (wrought iron) to Mr. Peltz to compare with the Tempe fence detail. Use the more economical of the two for the Northeast Basin fence.

The Town has contacted the owner of the parcel bordering with the Highline Canal located on the south side of the canal and west of the NE Basin with the 8 ft chain link fence. The owner responded to the request to relocate his fence. He agreed with having a new 6 ft chain link fence set on the property line. The contractor will need to remove the old fence.

Maintenance access to the NE basin was discussed. The north side of basin is bordered by the EPNG Co. easement (not legal access to basin) and is blocked by the retention basin berm (3:1 sideslope). The east side of the basin is blocked by the retention basin berm. The access point needs to remain on the south side of the basin. Mr. Rerick will revisit the issue with SRP.

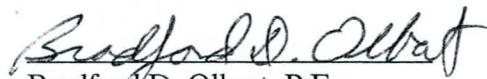
Need answer from SRP on where the light pole along Batoua will be relocated. Mr. Mattson will get decision from SRP.

Mr. Peltz will prepare a cost comparison on the multi use path surface treatment for discussion at the next meeting with the Town. Alternate bid items will be needed.

The Town needs to provide a schedule for the sidewalk improvements to properly identify the future vs. existing curb, gutter and sidewalk on the plans. Schedule is Phase 2 - completed before January 2002 and Phase 3 - starts Fall 2002.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

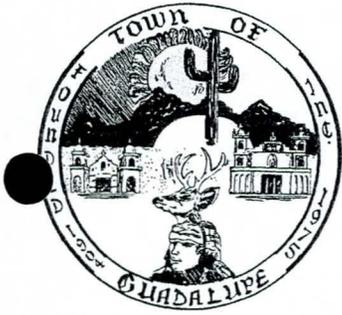
Signed:



Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees



Town of Guadalupe

9241 South Avenida Del Yaqui ♦ Guadalupe, Arizona ♦ 85283-2598 ♦ Phone:(480) 730-3080

Celebrating 25 Years of Progress

Frances Osuna - Mayor
Veronica Flores - Vice Mayor
Tomas Alvarez - Councilmember
Rafael Armenta - Councilmember
Margarita V. Garcia - Councilmember
Anna R. Hernandez - Councilmember
Angie Perez - Councilmember

Date: May 24, 2001

Subject: Add Alternate Bid Item

Bid Item: Requested Design of Ball Field Lighting and Conduit Plan

The Town of Guadalupe would like to request a Add Alternate Bid item to be placed in the over all bid package for the up coming project, Guadalupe Drainage Improvement Project scheduled to begin January 2002.

The Town of Guadalupe will review the bid items, and at that time a decision will be made as to the viability of the bid item for the Town at that time.

Sincerely

J. Ricker
Building Official



Town of Guadalupe

9241 South Avenida Del Yaqui ♦ Guadalupe, Arizona ♦ 85283-2598 ♦ Phone:(480) 730-3080

Celebrating 25 Years of Progress

Date: May 24, 2001

Subject: Add Alternate Bid Item

Bid Item: Central basin fencing on North and South sides

The Town of Guadalupe would like to request a Add Alternate Bid item to be placed in the over all bid package for the up coming project, Guadalupe Drainage Improvement Project scheduled to begin January 2002.

The Town of Guadalupe will review the bid items, and at that time a decision will be made as to the viability of the bid item for the Town at that time.

Sincerely

J. Ricker
Building Official

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Town of Guadalupe

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Celebrating 25 Years of Progress

Date: May 24, 2001

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Veronica Flores - Vice Mayor
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Rafael Armenta - Councilmember
Margarita V. Garcia - Councilmember
Anna R. Hernandez - Councilmember
Angie Perez - Councilmember

Subject: Add Alternate Bid Item

Bid Item: Multi-Use Paths at Basin Locations

The Town of Guadalupe would like to request a Add Alternate Bid item to be placed in the over all bid package for the up coming project, Guadalupe Drainage Improvement Project scheduled to begin January 2002.

The Town of Guadalupe will review the bid items, and at that time a decision will be made as to the viability of the bid item for the Town at that time.

Sincerely

J. Ricker
Building Official



Town of Guadalupe

9241 South Avenida Del Yaqui ♦ Guadalupe, Arizona ♦ 85283-2598 ♦ Phone:(480) 730-3080

Celebrating 25 Years of Progress

Frances Osuna - Mayor
Veronica Flores - Vice Mayor
Tomas Alvarez - Councilmember
Rafael Armenta - Councilmember
Margarita V. Garcia - Councilmember
Anna R. Hernandez - Councilmember
Angie Perez - Councilmember

Date: May 25, 2001

Subject: Add Alternate Bid Item

Bid Item: Requested Alternate bids on the use of Sod verses Planted Seed, at basin locations.

The Town of Guadalupe would like to request a Add Alternate Bid item to be placed in the over all bid package for the up coming project, Guadalupe Drainage Improvement Project scheduled to begin January 2002.

The Town of Guadalupe will review the bid items, and at that time a decision will be made as to the viability of the bid item for the Town at that time.

Sincerely

J. Ricker
Building Official

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Town of Guadalupe
AND DATE: June 4, 2001; 12:30 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Lynn Mattson, FCDMC
Jim Ricker, Town of Guadalupe
Cindy Scott, Salt River Project
Dennis Peltz, McCloskey-Peltz, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Meeting with SRP on Power Drop Locations

SUMMARY:

The above participants met at the Town of Guadalupe to discuss the project. The purpose of the meeting was to review the power drop locations for each of the retention basin sites and the division of the labor for the electrical work between SRP and the project contractor.

Mr. Rerick briefly presented a general overview of the project and the location of each of the retention basins. It was agreed that SRP would provide single-phase 110/220-volt electrical service to a 200-amp meter pedestal at each of the retention basins sites. Mr. Ricker said the 200-amp service would be adequate for any need the town could have at the basins.

In the SGC's and the specifications, Cindy Scott will be the contact person for the SRP work involving the power drops. Mr. Rerick said the electrical service will be registered in the name of the contractor through the warrantee maintenance period. After the warrantee maintenance period, the account will be switched to the Town of Guadalupe.

North Retention Basin – The power drop will be located at a 12 kV power pole located on the south side of the Highline Canal R/W, approximately 570 feet west of Avenida del Yaqui measured along the canal R/W line.

Northeast (Tempe) Basin – The power drop will be located near the northwest corner of the property. The existing 12 kV power pole on the lot will be relocated to just outside the retention basin lot in the area reserved for the future construction of a SRP irrigation supply well. Underground secondary will be trenched to a location at the Southwest corner of the basin where a meter pedestal will be located. The access gate will need to be shifted to the east. Ms. Scott will coordinate her effort with Mr. Streeper and SRP ground water engineer to check on possible easement requirements and the pole location within the

SRP well site.

Central Retention Basin – The power drop will be located at a 12 kV power pole located near the Southeast corner of the basin. The meter pedestal would be located just west of the power pole.

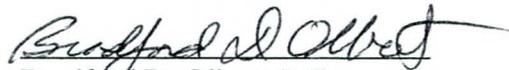
South Retention Basin – The power drop will be located at a 12 kV power pole located near the Northeast corner of the basin.

Ms. Scott will develop an estimate for SRP's design and construction costs associated with the power drops. The FCD will need to agree to cover the cost up front before the design work is started. Once the plans are developed they will be delivered to Mr. Mattson and to Sverdrup (McCloskey Peltz) for review.

To initiate the process with SRP, four service addresses will need to be obtained for the power drop locations. One of the service addresses will need to be obtained from the City of Tempe for the Northeast Basin and the Town of Guadalupe will need to determine the addresses for the other three locations. Mr. Peltz will contact the City of Tempe and Mr. Ricker will obtain the other three addresses from the Town. Mr. Ricker will pass the address information to Mr. Mattson and Mr. Peltz.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Town of Guadalupe
AND DATE: June 6, 2001; 7:30 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
John Stock, FCDMC
Bob Gooch, Salt River Project (SRP)
Tom Farnsworth, Pentacore
Jim Ricker, Town of Guadalupe
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Survey Field Review Meeting, 10-Yr Design

SUMMARY:

The above participants met at Town of Guadalupe Town Hall prior to walking along the Highline Canal to identify offset nails and R/W markers set by Pentacore. The R/W markers were set based upon the SRP record of survey.

In most locations where R/W markers have been set, the markers are inside the fences 2 to 10 feet. The encroached areas need to be cleared to construct the proposed improvements.

The SGC's will need to state that the Contractor must maintain a construction fence or permanent fence along the canal R/W at all times during construction along the canal. The Contractor can do this either by installing a new permanent fence along the R/W line or by maintaining a temporary fence along the R/W line until construction activities are complete and then constructing the permanent fence where called for in the plans.

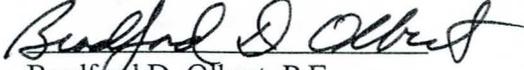
South Basin – Along the north R/W line the existing fence appears to have been set to the south of the R/W line by 5 to 10 feet. Private improvements have encroached up to the fence. The FCD can either clear the encroachment or leave the fence where it is and construct the basin improvements as shown on the plans. North of the South Basin, two parcels have access to the SRP R/W. The project will cut off this access. The Town needs to provide access through the church property to the west before construction begins.

Central Basin - Along the north and west R/W lines the encroachment appears to be approximately 5 feet. Pentacore will establish the NW and NE corners of the parcel to determine the exact encroachment.

Pentacore will provide R/W encroachment exhibits by mid June. The exhibits will be reviewed with the Town to decide the course of action with the property owners.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B

Bi-Weekly MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Town of Guadalupe Conference Room
AND DATE: June 6, 2001; 10:30 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Bob Gooch, SRP
Jim Ricker, Town of Guadalupe
Dennis Peltz, McCloskey Peltz, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Bi-Weekly # 10, 10-Yr Design

SUMMARY:

The above participants met at the Town of Guadalupe to discuss key issues about the project.

Mr. Olbert handed out the project schedule and reviewed upcoming events.

- Constructability field review and comment resolution meetings are scheduled for July 12th.
- The next PAAC Meeting is scheduled for July 12th at 6 pm at the Town Hall. Since several members of the Council will be present, this will be a special Council Meeting as well.
- The next Bi-Weekly Meeting is set for August 1st, 10 a.m. at Sverdrup.

The second round of the potholes are underway. Mr. Mattson to provide copies of the pothole data along with the sewer videotapes to the Town.

Sverdrup still needs to provide the geotech information to Greg Wilson with SRP. Sverdrup was holding off on the submittal until the sewer line relocation plan sheets have been completed. Mr. Mattson will help with the submittal to SRP when the 60% plans are submitted.

The multi-use pathway alternatives were submitted to the Town along with cost differentials. The Town requested that bid alternate items be added to the project of cover each of the basins. That will mean nine alternative bid items in the bid tab. The Town will select between the alternatives based on the bid price.

The North Retention Basin will have a bid alternative for sod. The Central and South Basins will be seeded only.

Soil preparation data for the turf areas are needed for the plans and specifications. Speedie will provide

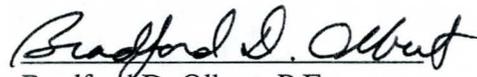
the information shortly after soil samples are taken and tested.

Other bid alternates reviewed include fencing for the north and west sides of the Central Basin and installation of electrical conduit for the baseball field. The Town will provide a letter requesting the design of the conduit for the baseball field lighting.

Fencing for the project will include along the east side of the Highline Canal from the South Basin NE corner northward to the lot with the firewood. Fencing is intermittent north of the Central Basin. Refer to the field meeting on February 22nd. A 3 foot high fence will be added to the Central and South Basins on the east side along the canal. Gates will be provided at two locations for the Central Basin and one for the South Basin.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Sverdrup Office
AND DATE: July 2, 2001; 4:00 pm

PARTICIPANTS: Tom Ankeny, City of Tempe
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Water Relocation Meeting with the City of Tempe

SUMMARY:

The above participants met at Sverdrup's office to discuss the relocation of water facilities. Each water line crossing of the storm drain facilities was reviewed and if relocation of the waterline was needed, options were reviewed. Below is a listing of each street, station of potential water relocation sites, and action required.

Calle Magdalena

Sta. 13+56 Lt. – Relocation may not be required. If the cast iron waterline is one foot away from the proposed catch basin, that distance is adequate from the City's perspective. The desirable minimum is 2 feet. The City does not have the same level of concern about the storm drain facilities as they have about sewer facilities. Storm drain facilities operate intermittently and relocation of waterlines can add several additional joints to line that can be potential locations of contamination. The City would prefer horizontal relocation to vertical relocation where possible.

Sta. 16+15 Lt. – The City would prefer horizontal relocation to vertical relocation. Provide 2 foot cover for relocated line.

Calle Batoua

Sta. 16+89 Centerline (CL). – One foot minimum clearance. Lower mainline slightly or shift location of MH.

Sta. 21+71 CL. – One foot minimum clearance. Lower mainline slightly or shift location of MH.

Sta. 25+68 Lt. – Lower waterline using MAG Standard Detail 370. City prefers the use of restrained Ductile Iron Pipe in lieu of Cast Iron with Thrust Blocks per MAG Standard Details 380 & 381.

Sta. 27+00 Lt. To 28+50 Lt. – If vertical trench construction can be used, there is no need to concrete encasement the existing waterline.

Calle Gloria

Sta. 10+60 Lt. – Lower line using MAG Standard Detail 370.

Sta. 16+06 Lt. – Lower line using MAG Standard Detail 370.

Sta. 17+12 Lt. – Lower line using MAG Standard Detail 370.

Calle Vaou Nawi

Sta. 0+29 CL. (SD 2-5) – The City would prefer that the waterline be relocated above the top of the SD at this location.

Sta. 0+50 Rt. (SD 2-5) – Lower line using MAG Standard Detail 370.

Sta. 2+72 Rt. for 200+ ft parallel with the Highline Canal – Will need to relocate line under the SD headwall. Pick up additional potholes along waterline or show existing pothole information that will show what the depth of the line is relative to the concrete ditch. At a minimum start relocation at the bend near Sta. 2+55 Rt. and 2 feet under storm drain line. Big concern is large maintenance truck driving over waterline near ditch. Sketch up a couple of cross sections where the potholes are located.

Sta. 10+00 Rt. (SD 2-4) – Lower line using MAG Standard Detail 370.

Calle San Angelo

Sta. 10+60 Lt. – Lower line using MAG Standard Detail 370.

Sta. 13+20 Lt. – Lower line using MAG Standard Detail 370.

Sta. 16+74 Lt. – Lower line using MAG Standard Detail 370.

Sta. 19+91 Lt. – Lower line using MAG Standard Detail 370 or raise lateral by reducing depth of CB. The City has gone to a Class V RCP for laterals and reduced cover over the lateral to less than 1 foot.

Sta. 20+69 Lt. – Lateral may be OK if pipe clears waterline by 1 foot.

Sta. 24+87 Lt. – Lower line using MAG Standard Detail 370 or raise lateral by reducing depth of CB. The City has gone to a Class V RCP for laterals and reduced cover over the lateral to less than 1 foot.

Calle Mexico

Sta. 10+43 Lt. – Lower line using MAG Standard Detail 370.

Guadalupe Road

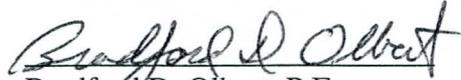
Sta. 27+67 CL – The City would like to see 1 foot clearance. With less than 1 foot, provided the storm drain is HDPE, use a styrofoam spacer between the pipes.

Avenida del Yaqui

Provide additional potholes to check where the existing 12" waterline dips under Highline Canal Pipeline. It may still be possible to avoid relocating the line. If relocation is unavoidable, tie into existing 12" waterline as it angles up from under the Highline Canal. Don't have any high spots in relocated pipe section to avoid trapping air in the line. Mr. Ankeny will check to see what special requirements are needed at this location.

For this project, the District should consider including an allowance for supporting utility pipes that were not anticipated based on the pothole information.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

Olbert, Brad

From: Ankeny, Tom [Tom_Akeny@tempe.gov]
Sent: Tuesday, July 03, 2001 4:32 PM
To: 'Olbert, Brad'
Cc: Mann, John
Subject: RE: Guadalupe Drainage Improvement Project - Meeting concerning Water Relocation Work

I told you that we favor restrained joints....They should be the "claw" type vs. the screw type. This distributes the contact/load and eliminates the point loading of the screw type.

TDA

-----Original Message-----

From: Olbert, Brad [mailto:Brad.Olbert@jacobs.com]
Sent: Tuesday, July 03, 2001 4:00 PM
To: Don Rerick (E-mail); Lynn Mattson (E-mail); Tom Ankeny (E-mail)
Subject: Guadalupe Drainage Improvement Project - Meeting concerning Water Relocation Work

Please see the attached meeting minutes.

<<070201_COT Utility Mtg.doc>>

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Olbert, Brad

From: Ankeny, Tom [Tom_Akeny@tempe.gov]
Sent: Tuesday, July 03, 2001 4:40 PM
To: 'Olbert, Brad'
Subject: RE: Guadalupe Drainage Improvement Project - Meeting concerning Water Relocation Work

Brad,

I read the meeting minutes and there were two changes. Need 3' minimum cover on relocated water line (Magdalena). We have used RG RCP Class V. We do not use non- Rubber Gasket RCP anywhere in our storm drain system.

TDA

-----Original Message-----

From: Olbert, Brad [mailto:Brad.Olbert@jacobs.com]
Sent: Tuesday, July 03, 2001 4:00 PM
To: Don Rerick (E-mail); Lynn Mattson (E-mail); Tom Ankeny (E-mail)
Subject: Guadalupe Drainage Improvement Project - Meeting concerning Water Relocation Work

Please see the attached meeting minutes.

<<070201_COT Utility Mtg.doc>>

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TELECON

Sverdrup Civil, Inc.

Date: July 7, 2001

TO: Steve Miller
Arizona Department of Environmental Quality
Groundwater Permitting

FROM: Daniel E. Stough, P.E.
Project Engineer
Sverdrup Civil, Inc.

SUBJECT: Contract FCD 99-17
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project - Final Design
ADEQ Drywell Registration

SUMMARY:

Mr. Miller,

This Telecom is a written record of the conversation on July 23, 2001 between Dan Stough (SVC) and Steve Miller (ADEQ). The call was initiated by Mr. Miller, who was responding to the submittal of the 60% plans of the four retention basins.

Mr. Miller stated that ADEQ does not usually review construction plans such as those submitted to him. Mr. Stough briefly described the project, the surrounding residential watershed and the type of facilities involved in disposal of subsurface water.

Mr. Miller responded that he did not see any need for an Aquifer Protection Permit for this project, given the nature of the watershed. He stated that the owner of the facilities (Town of Guadalupe) must register each drywell with ADEQ after construction.

Mr. Miller stated that the consultant should speak with Robert Wilson (ADEQ Surface Water) to determine if he had any issues with the project.

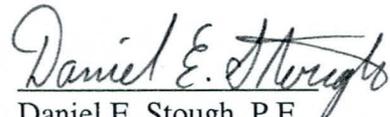
Mr. Stough then called Mr. Wilson to discuss the project. Mr. Wilson replied that he was only concerned with surface water releases such as spillway flows, or the bleedoff flows such as those from the North Basin and the Central Basin.

Mr. Wilson elaborated that the Flood Control District of Maricopa County is not required to submit a Storm Water Pollution Prevention Permit for the construction of this project. He said that after March 10, 2003 the County WILL have to submit a SWPPP, but that should not affect this project.

He said that because the retention basins are multi-use facilities, the Town of Guadalupe is also exempt from submittal of an SWPPP for the maintenance of the facilities.

Mr. Stough described the

Signed:


Daniel E. Stough, P.E.

Distribution:

Don Rerick, FCDMC
W7X70300-2B

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Town of Guadalupe
AND DATE: July 12, 2001; 5:10 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Dennis Holcomb, FCDMC
Margarita Cota, Mayor
Mark Johnson, Town of Guadalupe
Thomas Morales, Town of Guadalupe
Joe Ruiz, Town of Guadalupe
Margarita Garcia, PAAC Member
Lorenzo Ortega, PAAC Member
Ismael Osuna, PAAC Member
Mary Bravo, PAAC Member
Dennis Peltz, McCloskey-Peltz, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Joint Town Council & PAAC Meeting

SUMMARY:

The above participants met at the Town of Guadalupe to discuss the project. The purpose of the meeting was to review the retention basin landscape elements with the Council and PAAC Members and get feedback and direction from the members on specific issues.

Mr. Rerick briefly reviewed the agenda for the meeting and presented a general overview of the project history and location for the retention basins and the storm drain pipes. The presentation was turned over to Mr. Peltz to present the Master Plan for the Basin Landscaping. Mr. Peltz said that the Master Plan for each basin is the ultimate plan for the configuration of the pathways, ball fields and landscaping but is not meant to represent exactly what the FCDMC project will construct for the drainage project because of budget constraints. Four colored drawings were presented to illustrate the Master Plan for each of the basins.

North Retention Basin – The basin grading was configured to allow for the future construction of a little league baseball diamond and a basketball court. The landscaping plan showed the location of the baseball and basketball areas, the maintenance access and pathways to and around the facility, the location of the turf and decomposed granite areas, the drainage ditch around the west and north sides of La Lomita, and the location of the trees. The Town and the District are still waiting a final decision on whether the Diamondbacks/sponsors would fund the construction of the baseball field (i.e. backstop,

lights, sod, irrigation, and fencing).

Northeast (Tempe) Basin – The layout shows the basic landscaping elements acceptable to the City of Tempe. This basin is too small to provide any recreational use, so the basin will be fenced off.

Central Retention Basin – A practice area for soccer is provided at the bottom of the basin. Access will be provided from all four corners of the basin. The irrigation system, turf and decomposed granite illustrated will be provided. Approximately half of the trees shown on the landscape plan will need to be provided by the Town.

South Retention Basin – A future basketball court area is shown at the bottom of the basin. Access will be provided at two corners of the basin. The irrigation system, turf and decomposed granite shown will be provided. The Town will need to provide most of the trees.

One of the Town's residents thought they could easily start tree planting program of its own. They could start their own container trees from seed and plant them after a summer's growth.

Mr. Rerick covered the current direction regarding fencing around each of the basins.

North Retention Basin – The existing fencing along portions of the south side of the property will remain. Along the south side of La Lomita, the existing fence will be removed and a cable barrier will be used to block vehicle access. A swing gate and bollards will be used at the access entrance and inlet to the riprap ditch located west of La Lomita. Along the north side of the basin, earth mounding, trees, cable barrier, and boulders, will be used to control vehicle access. The existing fencing around the unused portion of the FCD property will remain in place.

Northeast (Tempe) Basin – The basin will be fenced off completely. No pedestrian access will be allowed.

Central Retention Basin – New 6' chain link fence will be provided along the north and west sides of the basin with a 3' chain link fence along the east side. Pedestrian access will be provided near the NE corner. A swing gate with boulder placement will allow pedestrian access at the NW corner of the site. On the south side along Guadalupe Road, earth mounding, trees, and boulders, will be used to control vehicle access.

South Retention Basin – The existing fencing on the north and south sides of the property will remain. New 6' chain link fencing will be located on the west and 3' on the east sides of the basin. Pedestrian access will be provided in two locations along the east side and a swing gate with pedestrian access at the NW corner of the site from Calle Vauo Nawi.

Mr. Rerick presented several items that he needed input from the Town Council and the PAAC members in the near future. If agreed to, alternate bid items would be included in the bid package for pricing on the turf and pathway items. They included:

- select a concrete form liner type for exposed concrete surfaces within the retention basin areas.
- paint/stain for the exposed concrete surfaces within the retention basin areas.
- upgrade the paths around and in the basins to include AC, stabilized granite, or concrete.

- Seeding the North Basin outside the baseball field or using a sod to match the diamondbacks choice of sod would give the basin a more polished look.

Copies of color samples and form liner styles were given to Mr. Morales to discuss later with the committee and make a decision. A single color choice and broken block/corrugated surface finish for the form liner was suggested. The broken block/corrugated surface finish discourages graffiti.

The FCDMC will provide a 4-inch thick ABC base for the paths. If the Town would like to upgrade the path surface to stabilized granite, asphalt or concrete, add-alternate bid items will be provided. Once bids have been opened the FCDMC will need to know within two weeks whether the Town would prefer to have constructed one of the alternative path surfaces, the incremental cost being the responsibility of the Town.

Mr. Rerick said that the District is pursuing a permanent drainage easement from the Pascua Yaqui Tribe to construct a shallow channel along the east side of the Pascua Yaqui's property located south of Guadalupe Road. As soon as a right of entry is signed additional survey work will be obtained for the design. This channel will provide additional flood protection to the Town as well as an outlet for drainage from the land owned by the Tribe.

Mr. Rerick explained again the purpose of the project and the function of the basins. The basins primary function is for flood control purposes and the capturing of storm water. Secondly, the basins will serve as community parks. However, it must be remember that there will occasionally be standing water in the basins that may preclude full usage of the basins as parks.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B
Meeting Attendees

Bi-Weekly MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Sverdrup Conference Room
AND DATE: August 1, 2001; 10:00 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Lynn Mattson, FCDMC
Fritz Huber, FCDMC
Tom Morales, Town of Guadalupe
Jim Ricker, Town of Guadalupe
Dennis Peltz, McCloskey Peltz, Inc.
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Bi-Weekly # 11, 10-Yr Design

SUMMARY:

The above participants met at the Town of Guadalupe to discuss key issues about the project.

Mr. Olbert handed out the project schedule and reviewed upcoming events.

- Partial 75% submittal desired by the FCD on August 13th. To include any major details not previously submitted.
- A combination Town Council / PAAC Meeting is scheduled for September 13th at 5 pm at the Town Hall. Meeting to decide color, form liner, budgets for alternatives to be funded by the Town.
- The next Bi-Weekly Meeting is set for August 27th, 10 a.m. at the Guadalupe Town Hall.

Pascua Yaqui Channel

- Acquisition of the drainage easement is moving forward.
- Two potential typical sections for the channel plus the plan view will be submitted to the tribe for their review.
- Will need to add direction to the Contractor in the SGC's concerning the channel. Hold off construction activity until after the easement acquisition.

Other issues

No decision yet on whether on not the Diamondbacks will provide funds for the ball field. Another decision maker, APS provides funds for the charity.

Pentacore's curb and gutter project will be completed before Christmas. Sverdrup to contact Rich Randall and request that he adds an order of work to the specification. The order of work will tell the contractor which streets need to be completed first.

McCloskey Peltz needs to increase the depth of the base bid path section to a 6-inch deep with ABC placed in an over-excavated prism. The multi-use pathway alternatives to use the same 6-inch deep section with 4-inches of ABC and 2-inches of AC or stabilized DG or 4-inches of concrete.

Mr. Mattson and Mr. Peltz need to meet with SRP to finalize coordination with the service drops and the City of Tempe to finalize the water service connection issues.

Mr. Rerick requested that the south side of the South Basin have a 1 foot high berm to preclude any storm flows from the old Sanders site reaching the retention basin.

The Town is clearing the SRP R/W near the power pole locations. SRP will proceed with the relocation work when the clearing is complete.

Sverdrup has responded to the City of Tempe engineering comments. Sverdrup to request email response from Mr. Bond.

Fence along the canal now to be 6 foot high with gates for access, not 4 foot high with openings. The only pipe gate is at the Cerritos Channel.

Pentacore will complete the mapping for the Pascua Yaqui channel and the Central Basin by August 16th. Sverdrup will adjust the excavation quantities for the Central Basin.

The Town's review comments for the 60% plans arrived from Collins-Pena today. Sverdrup will review.

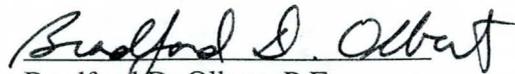
Sverdrup to add information to the SP's for the following:

- On bidding the alternatives follow Phoenix Rio Rico format.
- Add language from CM Branch to clarify how contractor is to deal with the existing utilities.
- Add contractor cooperation language for the curb and gutter contract.
- Add information about the disposal of burned inert and non-inert trash in the Central Basin.

The sewer HCS pothole data has been reviewed. The storm drain profile on San Angelo will need to be modified upward to allow the HCS connections to be able to route around the storm drain. This will cause additional water and gas service connections to be relocated. The critical service connection is the HCS.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B

Bi-Weekly MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION AND DATE: Town of Guadalupe Conference Room
August 27, 2001; 10 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Lynn Mattson, FCDMC
Jim Ricker, Town of Guadalupe
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Bi-Weekly # 12, 10-Yr Design

SUMMARY:

The above participants met at the Town of Guadalupe to discuss key issues about the project.

Mr. Mattson discussed the status of the utility relocation work.

- SRP Distribution – The relocation design work is complete with construction to begin in a couple of weeks.
- SWG – Relocation design to be completed by 9/4. Relocation work to be done by the end of October.
- US Sprint – No relocation work.
- Cox Cable – Mr. Mattson to meet with Cox on relocation design effort. Relocation work to be done by the end of October.
- Qwest - Mr. Mattson to meet with Qwest on their relocation design effort. Relocation work to be done by the end of October.

Mr. Olbert handed out the project schedule and reviewed upcoming events.

- 90% submittal due on September 7th. FCD comments by October 1st.
- Public meeting scheduled for September 13th. Flyers delivered this week to the Town and Tempe residents near the project. The handouts have been printed for the meeting.

Town Issues

- At the Town Council / Public Meeting, the Town will give final approval for the color, form liner selections and funding for the alternatives.
- Within two weeks of the bid opening the Town will decide on the alternatives to fund.
- The Town needs to provide a right-of-way permit for Town owned property and easements for the project.

- The two property owners located south of Guadalupe Road will need to have there new access to Calle Vaou Nawi in place before the project starts.
- The Town must not interfere with the contractor of the FCD project by issuing a curb and gutter project with another contractor. Any delay costs will need to be paid by the Town.

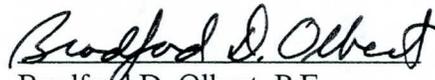
The landscape costs must stay below the \$692,000 amount. This will need to be done with the number of plants installed etc. Specs and plans need to be adjusted to reflect no topsoil required for this project. Amendments need to be disked into the surface.

Other Issues

- The headwalls along the south side of the Central Basin near Guadalupe Road need to be removed and the ditch regraded.
- A set of plans and calculations were delivered to the City of Tempe to get closure on the engineering items.
- Provide a bid item for the conduit to light the baseball field.
- Sverdrup to provide a project construction schedule to the FCD for review.
- Sediment basin along the SRP canal needs to be modified to avoid O&M vehicle conflicts. Possibly use guardrail or increase the distance. Sverdrup to check with Mr. Gooch on the issue.

Please review these meeting minutes and call me (480) 763-8612 if you have comments.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Town Hall, Guadalupe, AZ
AND DATE: September 13, 2001; 5:00 to 6:45 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Thomas Morales, Town of Guadalupe
Mark Johnson, Town of Guadalupe
Dennis Peltz, McCloskey - Peltz, Inc.
Dan Stough, Sverdrup Civil, Inc.
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Town Council and Public Information Meeting – 10-Yr. Design

SUMMARY:

Visitors for the joint Town Council and Public Information Meeting began arriving at the Council Chambers at 4:45 p.m. Each visitor was asked to sign-in at the front table. They were given a handout that identified the purpose of the meeting, provided information on the history of the project, what work is being done at the present time, informed them of what to expect in the near future, how they can participate, and who they can contact. The handout was prepared in both Spanish and English.

Displays on hand for the council and visitors to view included:

- An aerial site map of the town at a scale of 1" = 200' that showed the location of the storm drain improvements in a schematic format.
- Four plan view drawings showing the ultimate landscape plan proposed for North, Northeast, Central and South Retention Basins. The four drawings were presented in a half size format and shown on a single foam core board.

The Town Council Meeting began at 5:00 pm and Mr. Morales introduced Mr. Rerick and the consulting staff that were working on the project. Mr. Rerick presented a brief overview of the project and that this was the last of six public meetings to inform the Town of the project. Construction would most likely begin in January or February of next year on the storm drain system and the retention basins. There will be disruption in the everyday traffic in the Town during construction of the project. It will be the Contractor's responsibility to inform residents about the upcoming work. Phone numbers for the Contractor will be posted and distributed to households throughout the Town. This will allow residents who have concerns about the project to speak directly with the Contractor. Several aesthetic issues on the project need to be finalized. They include: the use

of sod vs. seed in the basins, alternate pathway materials (concrete, asphalt and stabilized decomposed granite), and the color and form liner to use on concrete headwall structures.

Concerns about the Project

The following is a summary of the issues and concerns that were raised by the council members during the meeting. Mr. Rerick responded to each of the following questions.

Will all of the streets be under construction at the same time? Only a few streets at a time would be under construction. Construction would typically involve one block at a time and the contractor will not be allowed to have two parallel streets under construction at the same time.

What about the existing curb and gutter? Some of the curb, gutter, and sidewalk will need to be replaced where new catch basins will be constructed. Most of the existing curb, gutter, and sidewalk will not be affected.

What about the open trenches? The contractor must cover all of the open trenches at the end of his workday.

How long will the project last? The construction period is expected to last eleven months.

Will the retention basins have irrigation systems for the trees and grass? Yes. A timer controlled irrigation system will automatically water the trees and grass in each basin.

What about the cost difference between the seed and the sod? The District normally pays for grass seed for landscaping. The sod is an upgrade to what the District normally pays for. The town would be responsible to pay for the cost difference between the seed and the sod. The District will need a decision from the Town two weeks after the bid opening.

Overview of the Landscaping for the Basins

Mr. Peltz provided an overview of what will be provided in each of the retention basins. The project will provide all of the trees shown on the master landscape plan for the North Retention Basin. The area of the baseball field will be left for the Diamondbacks organization to construct when that takes place. The project will provide approximately half of the trees shown on the master landscape plan for the South and Central Retention Basins. The Town will need to plant the remaining trees at a later date. All of the basins will have automatic irrigation systems. The irrigation system will include drip irrigation lines located where the future trees will be placed.

Mr. Peltz reviewed the alternatives that the Town has to upgrade the retention basins. The cost difference to add sod instead of seed to each of the retention basins is approximately \$20,000 per basin. The cost to add asphalt pavement to the pathways is approximately \$30,000 for the North Retention Basin and \$20,000 for the South and Central Basins. The cost to add concrete to the pathways is approximately twice the cost of the asphalt pavement.

Access barriers will be placed over the storm drain pipes at each headwalls in the basins. Handrails will be located on top of each headwall. The access barriers and handrails will be painted the same

color as the headwalls. The color and form liner to be used at the headwalls still needs to be decided on.

Additional Comments and Town Council Resolution

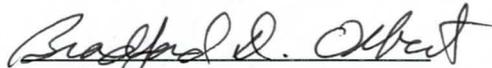
Several persons attending the meeting made comments to the Town Council that the basins should have sod placed in the basins to make them usable now instead of waiting for grass to grow from seed. Also pavement should be placed to make the basins accessible to mothers with strollers and more usable by the handicapped. A council member asked that lighting conduit also be placed along the pathways now so that lighting can be installed at a later date.

The Town Council passed a resolution providing up to \$150,000 to pay for the cost of adding sod to the basins, pavement to the pathways and conduit for lighting along the pathways.

Several persons attending the meeting expressed that they were pleased with the outcome of the project and thanked the Flood Control District and their consultants for the work provided on this project.

The public meeting portion of the Town Council Meeting concluded at 6:45 p.m. Approximately twenty-five persons attended the meeting with 6 persons signing in at the front table. No comments were left at the meeting.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Flood Control District Conference Room

AND DATE: September 27, 2001; 1:30 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Lynn Mattson, FCDMC
Vince Gibbons, Pentacore
Tom Farnsworth, Pentacore
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Water Relocation / Survey Meeting with Pentacore

SUMMARY:

The above participants met at the Flood Control District office to discuss the relocation of the 30-inch water line and the survey correction.

Mr. Mattson described what he found studying TBE Group's pothole information and found a 0.6' vertical difference between the roadway profile information on Sverdrup's P&P sheets and TBE Group's information. However, it is not consistent throughout the project. He had TBE Group do a bench loop through the TBMs set by Pentacore and they seemed OK, but manhole rims were not.

Pentacore agreed to have a field crew to run a loop through the project to determine if there is a problem and if there is one to determine the extent of it. They will check rim elevations of manholes and PK nails set for the curb and gutter project. If it is global then an equation will correct the problem and they can do a global adjustment to the project elevations.

Sverdrup will review their plans to see what areas may be affected by the change in elevation. Since the ground will be lower relative to the utilities (excepting the sewers), there may be a hydraulic problem that will need to be looked at.

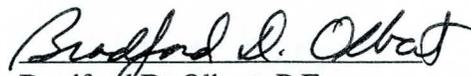
Since most of the work involves setting new inlets in existing curb and gutter a statement in the SP's and SGC's alerting the Contractor to set the grates to match the existing curb and gutter elevations where appropriate would help.

Mr. Rerick set a follow up date to review the status of this event. Place FCD, Time 9 am, October 4th.

Mr. Rerick outlined work needing to be done on the 30-inch water line in Guadalupe Road. The pipe line needs to be supported vertically and horizontally. The limits of the slurry-mix backfill and trench width need to be shown and adequately described in the SP's and SGC's. The City of Tempe needs to be brought into this issue to get there input. Mr. Olbert said the pipe manufacturer (Ameron) has been

called a couple of times to discuss what the physical limits the pipe material can handle. They have not returned any of the calls. Mr. Olbert will visit Ameron's office next if they continue to avoid taking calls.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B

Olbert, Brad

From: Frank Vigil [Frank_Vigil@Ameron-Intl.com]
Sent: Friday, September 28, 2001 1:58 PM
To: 'brad.olbert@jacobs.com'
Subject: Expose pressurized CCP

Brad, This e-mail is to follow up our conversation this morning about exposing pressurized CCP. From your information approximately 13 ft of 30" CCP will need to be exposed, while under pressure. Two 42" lines will then be installed underneath the CCP, about 8" clear. This will have no adverse affect on the CCP. However, there is a possibility there may be a pipe joint in the span of the exposed 13 feet. If this is the case, take measures to support the pipe as near as possible to the joint. This will keep the joint from settlement and possibly cracking the protective grout placed in the field joint. If you need further assistance from Ameron, please let us know.

Best Regards,

Frank Vigil
Ameron International

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION Flood Control District Conference Room
AND DATE: October 4, 2001; 9:00 am

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County (FCDMC)
Tom Farnsworth, Pentacore
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Survey Meeting with Pentacore

SUMMARY:

The above participants met at the Flood Control District office to discuss the survey correction.

Mr. Farnsworth said that there survey crew did indeed find a bust in the elevation used for the curb and gutter project in Guadalupe. The error is global and does not affect the curb and gutter project because it is relative within that area. Only the FCD project is affected because it covered a larger area. One of the TBMs used to set up the curb and gutter project had a 0.60 foot error. He is in the process now of reviewing all of the submittals to Sverdrup to determine which submittals used the bad TBM and which submittals used a correct TBM. They should have all the survey data corrected by next week. The manhole rim elevations and inverts will be corrected for Sverdrup's use.

Mr. Olbert said that Sverdrup will review the information when it is received and update all of the roadway profiles before determining what needs to be fixed. The review should be done by the end of the weekend. We will discuss it with the FCD before proceeding further. A change order will be needed to modify the plans and revise the drainage report. We will also update the schedule to reflect the added work effort.

Signed:


Bradford D. Olbert, P.E.

Distribution: W7X70300-2B

MEETING MINUTES

Sverdrup Civil, Inc.

LOCATION City of Tempe, Marigold Office
AND DATE: October 5, 2001; 1:30 pm

PARTICIPANTS: Don Rerick, Flood Control District of Maricopa County
Fritz Huber, FCDMC
Tom Ankeny, City of Tempe
Brad Olbert, Sverdrup Civil, Inc.

SUBJECT: **Contract FCD 99-17**
Flood Control District of Maricopa County
Guadalupe Drainage Improvement Project
Meeting with the City of Tempe

SUMMARY:

The above participants met at the City of Tempe's Water Engineering Department office off on 255 E. Marigold to discuss the construction of the twin 42-inch storm drain lines under the 30-inch water line on Guadalupe Road and the 12-inch water line relocation work on Avenida del Yaqui.

Mr. Ankeny reviewed the earlier special provision concerning the relocation of the 12-inch water line on Avenida del Yaqui (ADY) and said he had a different approach that would avoid a total closure of roadway. The water line can be shut down and water rerouted around the water line closure by using temporary water lines to connect up with fire hydrants. On the west side of ADY, there are fire hydrants located at the SW corner of Calle Cerritos and the south driveway of the hotel located north of the Highline Canal. About 650 feet of temporary water line can connect these hydrants. On the east side of ADY, there are fire hydrants located on the north side of a driveway entrance to a self-storage complex and a second hydrant at an apartment complex located just north of the self-storage complex. Approximately 250 feet of temporary water line can connect these two hydrants. A couple of driveways will be needed to be closed. The work will require the businesses and the fire department to be notified. Mr. Ankeny will supply Sverdrup with a water map of the area to locate the fire hydrants. All of this work will need to be done over a weekend. City of Tempe water personnel can only do the shut down of the water line. And shut down will only be in the early morning hours (12 midnight to 4 am). The information will be added to the SP's and SGC's. Mr. Rerick said that the businesses/apartments will be notified about any driveway closures 7 days in advance of the work. Overtime/night work will be allowed for this installation.

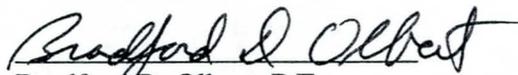
Concerning the support issue on the 30-inch water line on Guadalupe Road, Mr. Olbert had contacted Ameron to discuss the ability of the water line to span the open trench. Ameron said their water line can span the trench unsupported and will function well under operating pressures. There only concern was if a joint was located in the trench area. They would like to see the joint supported to preclude any movement in the joint.

Mr. Huber proposed that only hand digging be permitted within 2 feet of the pipe to preclude any

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damage to the pipe by a backhoe. Also, this would be a good location to use a lean-mix backfill up to the springline of the pipe to provide quick support for the water line after the storm drain pipes have been set. A second lean-mix pour can be made to bring the trench up to the structural section of the roadway (per MAG T-450, Section AA). A cold joint will be allowed to form between the two pours by separating the pours by at least 8 hours. If the concrete vault is completed before the trench work under Guadalupe Road is started, the lean-mix can be poured up against the vault and used as a form. The City agreed with the approach. Mr. Rerick said this will be described in the SP's and SGC's.

Signed:


Bradford D. Olbert, P.E.

Distribution:

W7X70300-2B

Olbert, Brad

From: Bond, Jim [Jim_Bond@tempe.gov]
Sent: Tuesday, November 27, 2001 1:35 PM
To: 'djr@mail.maricopa.gov'; 'brad.olbert@jacobs.com'; 'dan.stough@jacobs.com'
Cc: Baker, Craig; McMenimen, Larry; O'Melia, Kevin; Bond, Jim
Subject: MCFCD/GUADALUPE DRAINAGE PROJECT (RETENTION BASIN IN TEMPE)

HELLO, DON, BRAD AND DAN.

WELL THIS IS THE MESSAGE THAT YOU HAVE WAITED FOR FOR SOOOO LONG.

I CHECKED OUR PERMIT SYSTEM THIS MORNING AND PLANNING (KEVIN O'MELIA), BUILDING SAFETY (LARRY MCMENIMEN) AND ENGINEERING (CRAIG BAKER) HAVE UPDATED THE STATUS OF THEIR VARIOUS REVIEWS AND PERMITS TO "READY TO ISSUE" WHICH MEANS THAT THE PLANS HAVE BEEN APPROVED AND THE NECESSARY PERMITS ARE READY TO ISSUE TO THE CONTRACTOR.

BRAD AND DAN, PLEASE ARRANGE TO PICK UP THE APPROVED SET OF MYLARS FROM DEVELOPMENT SERVICES. THEY WILL NEED TO BE AS-BUILT AT THE COMPLETION OF THE PROJECT AND RE-SUBMITTED TO THE CITY ENGINEERING DIVISION FOR OUR PERMANENT RECORDS. YOU'LL NOTICE THAT AN APPROVAL LINE FOR THE CITY ENGINEER WAS ADDED AND SIGNED.

THE FOLLOWING PERMITS ARE REQUIRED TO BE PICKED UP BY THE CONTRACTOR AT THE DEVELOPMENT SERVICES CENTER AFTER PAYING THE FOLLOWING FEES:

\$110.00	DRAINAGE PERMIT, NO. DR010064 (INSPECTIONS REQUIRED)
33.50	MECHANICAL/ELECTRICAL/PLUMBING PERMIT, NO. CA012107 (INSP. REQ'D)
0	PLANNING REVIEW, NO. PPC01318, (NO PERMIT REQ'D BUT INSP. REQ'D)

ALSO, WHEN THE CONTRACTOR IS READY FOR THE WATER METER TO BE INSTALLED HE WILL NEED TO MAKE THE INITIAL REQUEST AT THE DEVELOPMENT SERVICES CENTER. HE WILL NEED THE FOLLOWING AMOUNTS:

\$2100.00	DEVELOPMENT FEE FOR 1" METER
626.00	TAPPING FEE IF WORK IS DONE BY CITY FORCES, \$0 IF CONTRACTOR INSTALLS
116.00	COST OF METER REGARDLESS OF WHO INSTALLS IT

IF YOU OR THE CONTRACTOR RUN INTO ANY SNAGS ALONG THE WAY, PLEASE CONTACT ME OR ONE OF THE ABOVE CC'S AND WE'LL DO WHAT WE CAN TO HELP YOU THROUGH THE PROCESS. MY PHONE NUMBER IS 480-350-8897.

THANK.