

BOARD OF SUPERVISORS AGENDA ITEM SUMMARY

Requested Board Meeting Date: January 21, 2014

ITEM SUMMARY, JUSTIFICATION and/or SPECIAL CONSIDERATIONS:

Amendment # 01 contract # CT-WW-1400000000000000144, KE&G Construction, Inc., Construction Manager at Risk Services for The South Rillito West Central Interceptor Rehabilitation - Project No. 3SRWC4. This amendment adds Guaranteed Maximum Price #1 (GMP-1) in the amount of \$1,579,428.43 to the contract for the purchase of long lead equipment and materials, construction design services, community relations requirements prior to the commencement of construction activities, and for verification of underground utilities. Funding Source: RWRD Obligation Fund. Administering Department: Regional Wastewater Reclamation Department

This amendment provides for the procurement of long lead equipment and materials for the flow management requirements during construction (the construction of which to be submitted to the Board of Supervisors under a separate GMP and contract amendment at a later date), community relation efforts prior to the commencement of construction activities, potholing of existing utilities, and construction related design activities. As indicated in the August 19, 2013 Board of Supervisors Agenda Item Summary for the initial award of this project, the total cost including pre-construction and construction phase services, is estimated not to exceed \$14,280,000.00. On April 19, 2013 the Board awarded a preconstruction services amount not to exceed \$100,000.00. In order to accelerate the construction of this project RWRD has determined that phasing of construction activities is in the County's best interest. This GMP-1 will allow for the commencement of preliminary construction activities while project design is completed.

Effective Date: January 21, 2014

Termination Date: July 31, 2016

Original Contract Amount: \$99,109.00

Previous Amendment(s): \$0.00

Previous Contract Amount: \$99,109.00

Amount this Amendment: \$1,579,428.43

Revised Contract Amount: \$1,678,537.43

Project Manager: Noel Ortiz

Contract Officer: Jerome Rizzo, 724-3245
Procurement Department

AMS# CT-WW-1400000000000000144 Ver. 2

Please return to Harry Lewis.

Cont #	:	CT-WW-144-144-01
Effective	:	01-21-2014
Term	:	07-31-2016
Cost	:	\$1,579,428.43
Rev	:	0
Tot	:	\$1,579,428.43
NTE	:	\$1,678,537.43
Timex	:	00
Renewal	:	04-01-2016
Term	:	07-31-2016

CLERK OF BOARD USE ONLY: BOS MTG. _____

Procedure Dept 01/08/14 PM 04:27

ITEM NO. _____

To: CoB - 1-8-14
Agenda - 1-21-14 (1)

**PIMA COUNTY REGIONAL WASTEWATER
RECLAMATION DEPARTMENT**

PROJECT: Construction Manager At Risk Services
for The South Rillito West Central
Interceptor Rehabilitation Project No.
3SRWC4

CONTRACTOR: **KE&G Construction, Inc.**
5100 S Alvernon Way
Tucson, AZ 85706

CONTRACT NO.: CT-WW-1400000000000000144

AMENDMENT NO.: One (1)

FUNDING: RWRD Obligation Fund

CONTRACT

NO. CT-WW-1400000000000000144

AMENDMENT NO. 01

This number must appear on all
invoices, correspondence and
documents pertaining to this
contract.

CONTRACT TERM: 08/19/2013 - 07/31/2016	ORIGINAL CONTRACT AMOUNT:	\$	99,109.00
TERMINATION PRIOR AMENDMENT: N/A	PRIOR AMENDMENT(S):	\$	-
TERMINATION THIS AMENDMENT: 07/31/2016	AMOUNT THIS AMENDMENT:	\$	1,579,428.43
	REVISED CONTRACT AMOUNT:	\$	1,678,537.43

CONSTRUCTION CONTRACT AMENDMENT

WHEREAS, COUNTY and CONTRACTOR have entered into the Contract for the project referenced above; and

WHEREAS, COUNTY and CONTRACTOR now desire to incorporate Guaranteed Maximum Price #1(GMP-1) into the contract for the purchase of long lead equipment, preliminary construction design and survey requirements, potholing of existing utilities, and coordination of community relations prior to the commencement of construction; and,

WHEREAS, COUNTY's acceptance of GMP-1 is subject to the understanding of the Parties that all other elements of future GMPs are and remain negotiable.

NOW, THEREFORE, it is agreed as follows:

CHANGE: The captioned contract amount to read: Not to Exceed \$1,678,537.43

CHANGE: ARTICLE III – PAYMENT, PHASE II: PROJECT CONSTRUCTION

Insert after the first paragraph:

Guaranteed Maximum Price #1 (GMP-1) for the purchase of long lead equipment and preliminary construction activities as identified in ATTACHMENT 2 TO APPENDIX "B" is One Million Five Hundred Seventy Nine Thousand Four Hundred Twenty Eight Dollars and Forty Three Cents (\$1,579,428.43). COUNTY reserves the right to negotiate the construction fee, overhead rate, and all other elements of future GMPs.

ADD: To APPENDIX "B", ATTACHMENT 2 TO APPENDIX "B": GMP-1 South Rillito West Central Interceptor Construction Manager at Risk GMP-1 Submittal dated December 23, 2013 (19 pages attached).

This Amendment shall be effective on January 21, 2014.

All other provisions of the Contract, not specifically changed by this amendment, shall remain in effect and be binding upon the parties.


IN WITNESS WHEREOF, the parties have affixed their signatures to this Amendment on the dates written below.

APPROVED:

Chair, Board of Supervisors

Date

CONTRACTOR:



Signature

Christopher W. Albright Vice President/Tucson Manager

Name and Title (Please Print)

01/03/2014

Date

ATTEST:

Clerk of the Board

APPROVED AS TO FORM:



Deputy County Attorney

CHARLES WESSELHOFT

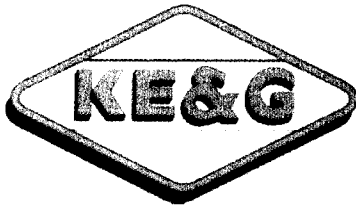
Printed Name

12-27-13

Date

ATTACHMENT 2 TO APPENDIX "B"

GMP-1 December 23, 2013



1601 PASEO SAN LUIS, SUITE 202
SIERRA VISTA, ARIZONA 85635
(520) 458-9594
FAX (520) 458-2362

5100 S ALVERNON WAY
TUCSON, ARIZONA 85706
(520) 748-0188
FAX (520) 748-8975

**South Rillito West Central Interceptor Construction Manager at Risk
GMP-1 Submittal**

TABLE OF CONTENTS:

1. Scope of Work.....	2
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6. Project Schedule (See Attached).....	17
7. SBE Requirements.....	18

South Rillito West Central Interceptor Construction Manager at Risk
GMP-1 Submittal

SCOPE OF WORK:

General

The RWRD's South Rillito West Central Interceptor (SRI) is a major interceptor that runs along the south side of the Rillito River. The SRI rehabilitation project begins in an area near Columbus Boulevard and runs west for 3.9 miles along the south bank of the Rillito River to the intersection of Roger Road and Tucson Blvd.

The overall project includes rehabilitation of approximately 4,894 lineal feet of 48 inch gravity sewer line and rehabilitation of 11,710 lineal feet of 54 inch gravity sewer line. Project also includes the rehabilitation of manholes along the SRI alignment.

For the initial phase of the GMP, KE&G intends on including construction design services, community relations efforts, potholing of existing utilities, and the procurement of long lead time items, specifically the 18" HDPE flow management piping.

South Rillito West Central Interceptor Construction Manager at Risk
GMP-1 Submittal

SUMMARY OF GMP:

Phase 1 GMP

1.00.01 Interceptor Flow Management

Procurement and installation of approximately 12,000 linear feet of 18" high density polyethylene piping and appurtenances for use in the flow management system to be set up from Deer Dancer to Pebble Rapids Place.

Procurement of specialized piping for use in the immediate construction of junction structure located at Columbus Blvd and Paradise Falls Drive.

Potholing of existing utilities verifying clearance for planned construction activities.

Assessment of the condition of manholes for the rehabilitation method recommended.

5.01 Design

Project Management (PM)

Throughout the life of the project, WestLand will provide a PM to oversee and run the tasks to be completed by WestLand and to attend all meetings (internal or public) as required. The PM will be responsible for working with KE&G to provide them the deliverables required for each task as well as scheduling resources, verifying quality control and invoicing. The PM will be the point of contact and communication for the life of the project.

Survey

Provide professional surveying services for both pre-construction and construction work to be done. Work shall include survey of any areas identified for excavation, survey, and legal descriptions for any temporary construction easements required, survey staking for any new structures or modifications as necessary. When structures are completed we will provide survey data for as-built drawings to be provided for submission to PCRWRD. Survey shall include location of existing utilities as marked by BlueStake and any above ground culture within the disturbance areas identified.

Deliverables for Survey: Provide all survey as denoted above. For all submittals, provide three (3) hard copies and PDFs of as well as the electronic files for use by CMAR for construction.

Flow Management Plan (FMP)

Once the final layout for the rehabilitation and the conceptual FMP have been completed and approved by PCRWRD, work with RWRD to develop a final FMP to be used for the project. All detailed information regarding flows, pumps, locations and alignments will be shown on plan

sheets with the data for each specific location shown within the plans. Required narratives, calculations and supporting data sheets will be provided as a memorandum to accompany the plan sheets for review and approval by PCRWRD. All FMP data submitted for pipe sizes 15-inch and larger will be sealed by an engineer registered in the State of Arizona.

Deliverables for FMP: Provide 24"x36" sheets with the FMP locations shown along with all force main alignments and necessary data. A memorandum with narratives, data and calculations will be submitted with plan sheets provide CMAR with three (3) hard copies and PDFs of the sheets.

Native Plant Preservation Ordinance (NPPO)

KE&G will utilize a certified landscape architect to verify the project impact per the Pima County Native Plant Preservation Ordinance. KE&G will include notes on the project plans inventorying the existing native plants on the alignment and provide for Pima County review.

Design

Provide professional engineering design services for all new structures and modifications of existing structures as needed based on final system layout. Provide all details and drawings required for construction. Coordinate with Structural Concepts for any required structural design and provide base drawings with dimensions for their use. At this time it is assumed that all design will be considered maintenance to the existing sewer system and will not require a Notice of Intent to Discharge (NOI) from the Arizona Department of Environmental Quality (ADEQ). If submittal to ADEQ for an NOI is needed, prepare the application for submittal. Review fees are included from this scope and will be paid by KE&G. As part of the design scope, prepare any as-built drawings of new or modified structures at the completion of the project.

Deliverables for Design: Provide 24"x36" sheets sealed by a professional engineer in the State of Arizona with the design of any new or modified structures. If required provide one NOI and one DA for the project, if additional NOI or DA is required, a separate proposal will be given. Review fees are not a part of this scope. Provide as-built drawings in the format required by PCRWRD.

Structure Design - During the pre-construction services, we will identify any new structures or modifications to existing structures that are required to perform the rehabilitation of the portion of the SRI identified above. Any new structures or modifications to existing structures will be done to improve existing system hydraulics and provide PCRWRD better access for their operation and maintenance. We will provide preliminary layouts for these structures to be reviewed by PCRWRD which will be approved prior to final designs as part of the Construction services.

Precast Manhole Slab/Collar: Provide structural calculations with sketches for precast concrete collar slab to support manhole sections on existing sewer pipe at enlarged opening in line. Two typical collar types are expected.

New Future Bypass Structure at Greenlee: Provide structural calculations with Structural Drawings and General Structural Notes for new cast-in-place foundation section, precast vault walls, and a precast lid for a potential future bypass structure at Greenlee.

Consult on Bypass Beam Bridge: Check structural calculations for a 93-foot span steel bypass bridge over Alvernon Wash to carry 3-18" diameter HDPE bypass pipes.

Dodge Bypass Supports: Provide structural calculations as needed for bypass supports at Dodge Blvd.

Deliverables for Structure Design: We will provide 24"x36" sheets with the preliminary design of any new or modified structures.

6.01 Community Relations

Construction Meetings/Project Management - Attend and participate in planning meetings and weekly meetings once construction begins. Provide strategic input to planning and implementation of effective public outreach. (Assumes 12 team/planning meetings and weekly construction meetings.)

TSM Meetings - Plan, schedule and coordinate meetings with police, fire, school districts, emergency services, and post office representatives. Develop and distribute meeting agendas; prepare copies of informational meeting materials; provide strategic input relative to public outreach; prepare and distribute meeting summaries (Assumes 4 TSM Meetings - One prior to the start of construction and 3 throughout construction).

Public Open Houses - Coordinate large open house to provide overview on all three rehabilitation projects (SRI, NRI, and Relief). Coordinate an Open House just prior to the start of construction of the SRI project to provide additional detail on construction methods and contractor's schedule. Team planning meetings; coordinate location and open house layout; develop, print, and mail open house notification; post open house information on the website; assist team members on presentation, fact sheets, and other materials to be presented at the open house; staff the welcome table and provide support during the open houses; coordinate refreshments; and assist with any necessary follow-up as a result of open house. (Assumes 2 Open Houses)

Neighborhood / Area Outreach - Coordinate, prepare and mail project progress notifications to neighborhoods and areas adjacent to the rehabilitation project; organize small neighborhood group meetings to notify of upcoming phases; coordinate one-on-one outreach with interested property owners and team members as needed; provide supporting informational materials as needed. Meetings will be held at Davidson Elementary School when possible. (Assumes up to 6 neighborhood/area group meetings)

Project Information Line/Maintain Database - Establish and maintain project information phone line; respond to incoming phone calls on project information line during regular office hours of 8 AM to 5 PM Monday through Friday transferring the phone line to contractor during nighttime and weekend hours. Maintain log of construction inquiries and obtain contact information, respond to inquiries, referring inquiries to team members as appropriate. (Assumes project length of 24 months)

Construction Alerts - Prepare alerts for posting to website, coordinate edits and revisions, obtain final approval, and send electronically to contact database. (Assumes weekly alerts)

Website - Develop a website for all three rehabilitation projects (SRI, NRI, and Relief) that accommodates citizens signing up for updates and allows them to email questions and

comments; maintain the website including posting construction updates, all project materials, maps, photographs, Frequently Asked Questions (FAQ), and other items of interest to inform the public about the progress of the project. Contract with an Internet service provider for project timeframe and be responsible for managing the website, collecting information, and facilitating answering of questions, etc. (Assumes project length of 24 months).

SOUTH RILLITO WEST CENTRAL INTERCEPTOR REHABILITATION

CM @ RISK

CONSTRUCTION COST ESTIMATE - GMP-1

SCHEDULE OF VALUES

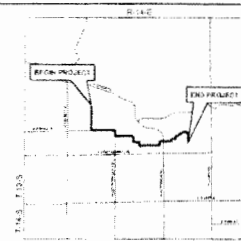
ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	GMP VALUE
1.00	FLOW MANAGEMENT PLAN				
1.00.01	INTERCEPTOR FMP (Phase 1)	1	LS	\$991,607.05	\$991,607.05
	FMP SUBTOTAL				\$991,607.05
5.01	DESIGN	1	LS	\$146,000.00	\$146,000.00
6.01	COMMUNITY RELATIONS	1	LS	\$145,000.00	\$145,000.00
	DIRECTS SUBTOTAL				\$1,282,607.05
12.08	BID CONTINGENCY @ 0%	1	LS	\$0.00	\$0.00
12.09	GENERAL CONDITIONS	1	LS	\$35,230.00	\$35,230.00
12.09.01	PROJECT MANAGER	3	WK	\$2,560.00	\$7,680.00
12.09.02	PROJECT ENGINEER	3	WK	\$2,290.00	\$6,870.00
12.09.03	FIELD ENGINEER	3	WK	\$1,750.00	\$5,250.00
12.09.04	SUPERINTENDENT	3	WK	\$2,560.00	\$7,680.00
12.09.05	CONSTRUCTION WATER	50	MGAL	\$7.00	\$350.00
12.09.06	TEMP FACILITIES	3	WK	\$600.00	\$1,800.00
12.09.07	MOBILIZATION	1	LS	\$5,600.00	\$5,600.00
	GENERAL CONDITIONS SUBTOTAL				\$35,230.00
	GMP SUBTOTAL				\$1,317,837.05
12.10	CM @ RISK CONSTRUCTION FEE @ 12.0%	1	LS	\$158,140.45	\$158,140.45
	GMP + FEE SUBTOTAL				\$1,475,977.50
12.11	PAYMENT & PERFORMANCE BONDS @ 0.67%	1	LS	\$11,069.83	\$11,069.83
	GMP + FEE + BOND SUBTOTAL				\$1,487,047.33
12.12	GENERAL LIABILITY INSURANCE @ 0.9%	1	LS	\$13,383.43	\$13,383.43
	SUBTOTAL				\$1,500,430.75
12.13	CITY OF TUCSON SALES TAX @ 5.265%	1	LS	\$78,997.68	\$78,997.68
12.14	TOTAL GMP				\$1,579,428.43

South Rillito West Central Interceptor Construction Manager at Risk
GMP-1 Submittal

LIST OF PLANS AND SPECIFICATIONS

The GMP submittal is based upon the preliminary alignment direction prepared by Pima County Regional Wastewater Reclamation Department project number PN 3SRWC4, including sheets numbering one through six, with cover sheet dated: March 5, 2013 and labeled "South Rillito West Central Interceptor Rehabilitation."

This GMP submittal is also based upon the flow management plans labeled Conceptual FMP Layouts, sheets 1 and 3, as prepared by Westland Resources.



LOCATION MAP

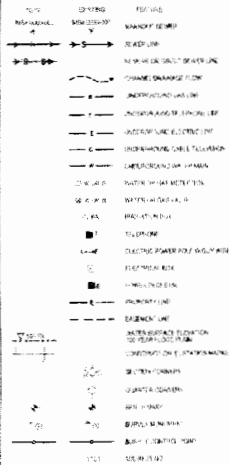
T-13 S R-14 E Section 19, 20, 21, 22, 23 & 24 G and S R M
 T-19 S R-14 E Section 29, 30, 31, 32 & 34 G and S R M
 Pima County, Arizona
 2-1-82



PN 3SRWC4

**PIMA COUNTY
REGIONAL WASTEWATER
RECLAMATION DEPARTMENT**

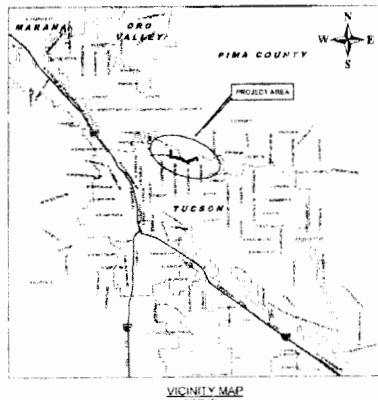
LEGEND



UTILITIES AND OTHER LISTING

Organization	Phone Number
Tucson Electric Power	(520) 938-8240
Costco	(520) 629-8511
Century Link Comm	(520) 232-7885
Southwest Gas	(520) 794-4043
Tucson Water	(520) 741-2646
PUC PDU	(520) 766-4410
PC REP'D	(520) 243-1300

ABBREVIATIONS

[illegible]

INDEX OF SHEETS

Sheet No.	Sheet Description
1	Cover Sheet / Legend
2	Index Sheet
3	Notes Sheet
4-12	Plan View Sheets

BOARD OF SUPERVISORS

DISTRICT 2	RAMON VALADEZ	CHAIRMAN
DISTRICT 1	ALLY MILLER	MEMBER
DISTRICT 3	SHARON BRONSON	MEMBER
DISTRICT 4	RAY CARROLL	MEMBER
DISTRICT 5	RICHARD ELIAS	MEMBER

PIMA COUNTY REGIONAL WASTEWATER
RECLAMATION DEPT.

JACKSON JENKINS DIRECTOR DATE

ENGINEERING

ERIC WIEDUWILT, PE. DEPUTY DIRECTOR DATE

CONVEYANCE DIVISION

JOHN WARNER	DEPUTY DIRECTOR	DATE
-------------	-----------------	------



PN 3SRWC

2478 3-25-2018

-RUC AL STAFF

1977-78

SERIAL 1 OF 1

5. A. "SIGNIFICANTLY IMPROVING AND MAINTAINING THE PUBLIC SANITARY SERVICES ARE THE RESPONSIBILITIES OF THE LOCAL GOVERNMENT. THE LOCAL GOVERNMENT'S WASTEWATER RECLAMATION DEPARTMENT IS RESPONSIBLE FOR THE DETERMINING STANDARDS AND PRACTICES IN A CITY'S PUBLIC SYSTEM. PART OF THOSE STANDARDS (TREATMENT AND SPECIAL SERVICES) ARE BEING IMPROVED IN A CONTINUOUS AND Ongoing AT THE PRESENT. THE REGIONAL WASTEWATER RECLAMATION DEPARTMENT OFFERS TECHNICAL SUPPORT AND RECOMMENDATIONS."

- [illegible]

15 IN THE CONSTRUCTION STAGE, WHILE A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA PRIOR TO
16 CONSTRUCTION, SAID SURVEYOR SHALL VERIFY AND ESTABLISH CONTROL FOR ANY EXISTING SURVEY MONUMENTS
17 THAT SHALL BE DISTURBED BY THE PROJECT. THE ELEVATION AND SETBACK ESTABLISHMENT OF EXISTING SHALL BE DURING
18 PRIOR TO ANY CONSTRUCTION. UPON COMPLETION OF THE PROJECT, THE SURVEYOR SHALL, ALSO BE RESPONSIBLE FOR
19 SURVEY MONUMENTS DISTURBED DURING THE PROJECT. THE SURVEYOR SHALL ALSO BE RESPONSIBLE TO FILE A
20 RECORD OF A DEED WITH THE COUNTY FOR EASE AND FOR CONVEYANCES UPON COMPLETION TO THE PROJECT.

- [illegible]

21 THIS CONTRACTOR SHALL PROVIDE UNINTERRUPTED SERVICE TO ALL GRANTEE TRIBUTARY TO AN ADEQUATELY
SANITARY SEWER. WHENEVER A FLOW IN AN EXISTING ADEQUATE SANITARY SEWER MUST BE INTERRUPTED, THE
CONTRACTOR SHALL PROVIDE A PLAN WITH A PLAN DETAILING HOW THIS WILL BE ACCOMPLISHED.
A FLOW MANAGEMENT PLAN/FLOW SHALL BE SUBMITTED TO HOWARD FIELD ENGINEERING AT LEAST THIRTY (30)

- [illegible]

1. ALL WATERWAYS SHALL BE CONSIDERED "WET" AND SHALL BE TREATED AS PER PERMANENT
2. WATER, SEWER, OR SEPARATION SHALL BE IN COMPLIANCE WITH A.R.C. 10-3-2002 -
ON PROVIDED STANDARDS FOR WATER QUALITY AND WATER USE AND WATER MANAGEMENT
3. ALL SEWER MAINS, PIPING AND PUMPS - SHALL BE IN COMPLIANCE WITH A.R.C.

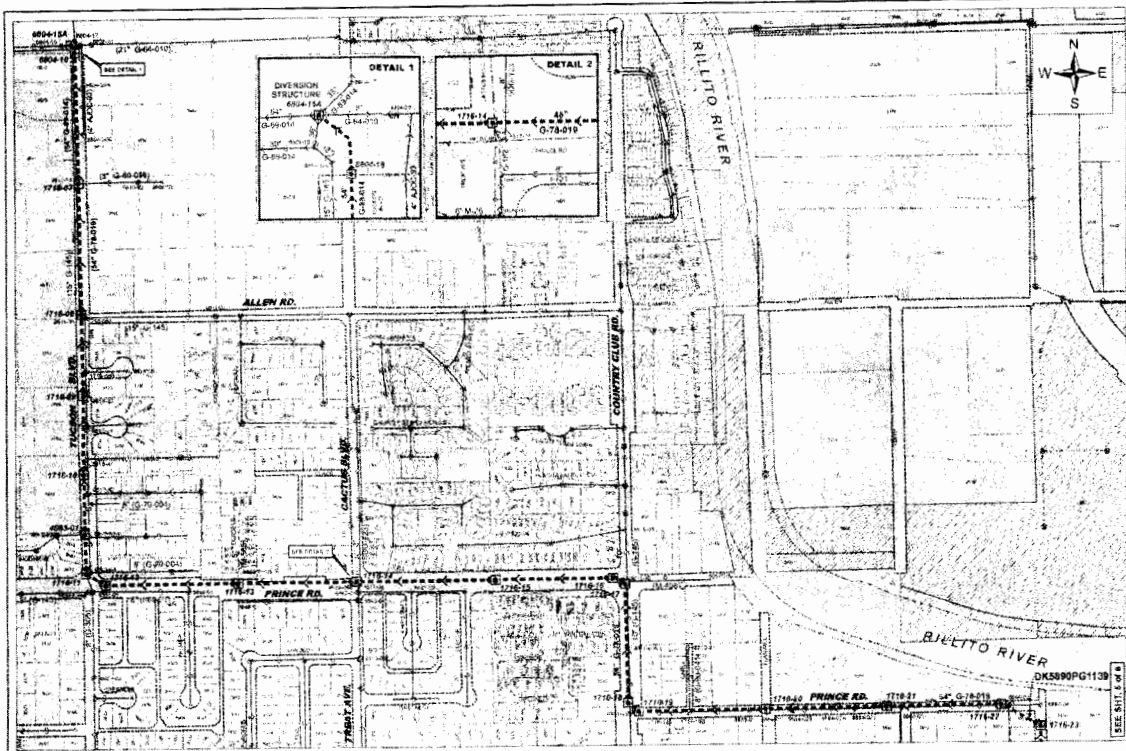
- [illegible]

8. *Do not use the following information to solve this problem.*

1. **CONSTRUCTING A PROPOSITIONAL CALCULUS**
The language of propositional calculus is a formal language. It consists of a set of symbols, a set of formulas, and a set of rules. The symbols are the propositional variables, the propositional connectives, and the propositional quantifiers. The formulas are the propositions. The rules are the inference rules. The propositional calculus is a formal system for reasoning about propositions.
2. **PROPOSITIONAL CALCULUS**
The propositional calculus is a formal system for reasoning about propositions. It consists of a set of symbols, a set of formulas, and a set of rules. The symbols are the propositional variables, the propositional connectives, and the propositional quantifiers. The formulas are the propositions. The rules are the inference rules. The propositional calculus is a formal system for reasoning about propositions.
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AND ALL OTHER RESOURCES NECESSARY TO DO THE WORK.

1. The first step is to identify the problem. This involves understanding the situation and the goals that need to be achieved. It is important to gather all relevant information and to define the problem clearly.



SHEET LOCATION MAP
N.T.S.

Legend

- CATCHMENT BOUNDARY
- PUBLIC R.O.W.
- ACCESS ROAD
- PIMA COUNTY PARCELS
- Manholes
- Catchment
- Public Sewer
- Private Sewer
- Abandoned Sewer
- Major Waterline
- Parcel with Address

SHEET TOTALS

ITEM	QUANTITY
MANHOLES	14
SEWER LINES	1,147
SEWER FITTINGS	14
SEWER VALVES	14
SEWER CLEANOUTS	14
SEWER MANHOLE COVERS	14
SEWER MANHOLE FRAMES	14
SEWER MANHOLE ACCESSORIES	14
SEWER MANHOLE INSTALLATION	14
SEWER MANHOLE MAINTENANCE	14
SEWER MANHOLE REPAIRS	14
SEWER MANHOLE REPLACEMENTS	14
SEWER MANHOLE REMOVALS	14
SEWER MANHOLE RESTORATION	14
SEWER MANHOLE SURVEILLANCE	14
SEWER MANHOLE TESTING	14
SEWER MANHOLE TREATMENT	14
SEWER MANHOLE DISPOSAL	14
SEWER MANHOLE STORAGE	14
SEWER MANHOLE TRANSPORT	14
SEWER MANHOLE DISTRIBUTION	14
SEWER MANHOLE COLLECTION	14
SEWER MANHOLE TREATMENT	14
SEWER MANHOLE DISPOSAL	14
SEWER MANHOLE STORAGE	14
SEWER MANHOLE TRANSPORT	14
SEWER MANHOLE DISTRIBUTION	14
SEWER MANHOLE COLLECTION	14

PN 3SRWC4

PIMA COUNTY
REGIONAL WASTEWATER
RECLAMATION DEPARTMENT

PN 3SRWC4
SOUTH RILLITO CENTRAL
INTERCEPTOR
REHABILITATION PROJECT
PLAN SHEET

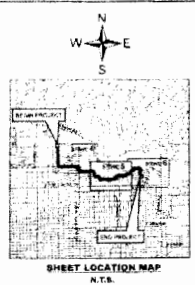
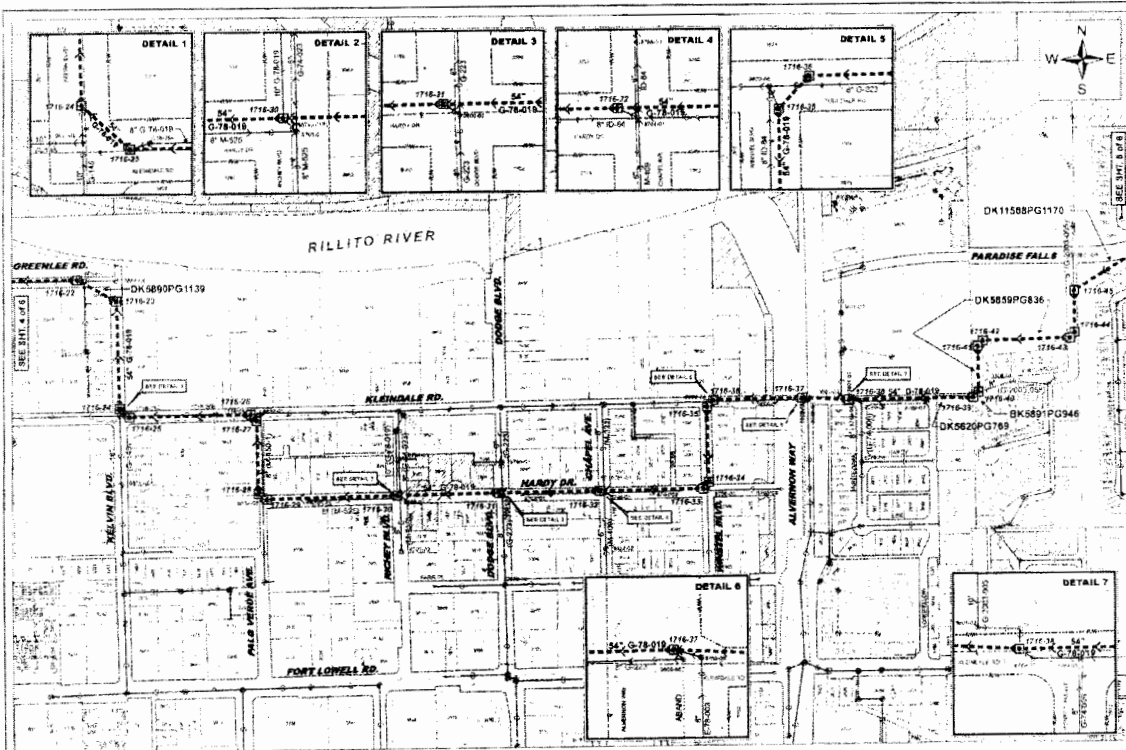
OKS890PG1139

DATE: 5-25-2011

SCALE: 1" = 50'

PROJECT: PN 3SRWC4

SHEET: 4 of 5



- Legend**
- CIPP MANHOLES
 - SOUTH RILLITO INTER-PIOR
 - WEST CENTRAL SRWC
 - SRWC EASEMENT DOCKET BOOK & PAGE
 - SRWC EASEMENT BOUNDARY
 - PUBLIC R.O.W.
 - ACCESS ROAD
 - PIMA COUNTY PARCELS
 - VARIANTS
 - Gasroute
 - Public Sewer
 - Private Sewer
 - Abandoned Sewer
 - Major Washout
 - Permitted Washouts

SHEET TOTALS

ITEM	QUANTITY
1. CIPP	1,140
2. CIPP	1,140
3. CIPP	1,140
4. CIPP	1,140
5. CIPP	1,140
6. CIPP	1,140
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13. CIPP	1,140
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32. CIPP	1,140
33. CIPP	1,140
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46. CIPP	1,140
47. CIPP	1,140
48. CIPP	1,140
49. CIPP	1,140
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PN 3SRWC4

PIMA COUNTY
REGIONAL WASTEWATER
RECLAMATION DEPARTMENT

3SRWC4
SOUTH RILLITO - WEST CENTRAL
SEWER REHABILITATION PROJECT
PLAN SHEET

PN 3SRWC4
DATE: 3-26-2013
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

SRWC 5 of 6

South Rillito West Central Interceptor Construction Manager at Risk
GMP-1 Submittal

CLARIFICATIONS AND ASSUMPTIONS

1. Pavement patched required where asphalt was removed to accommodate flow management or manhole installation will be replaced in a condition equal to the existing pavement.
2. Traffic control will be included in future GMP proposals.
3. Contractor to have unrestricted access to all locations within project limits including washes and drainage ways.

The following items are excluded from the GMP.

- Utility Relocation/Support
- Overhead Protection
- Temporary Construction Easement Cost



SRI Rehabilitation CPM Schedule

Task Name	Duration	Start	Finish	December	January	February	March	April	May	June	July	August	September	October	November	December	January	February	March
1 PHASE 1 CONSTRUCTION GMP	0 days	Mon 12/2/13	Mon 12/2/13																
2 WESTLAND RESOURCES CONSTRUCTION PLAN PROCUREMENT/TECHNICAL DESIG	35 days	Mon 12/2/13	Fri 1/17/14																
3 KANEEN ADVERTISING COMMUNITY RELATIONS/DESIGN ALTERATION NEGOTIATIO	35 days	Mon 12/2/13	Fri 1/17/14																
4 KE&G BYPASS PIPE PROCUREMENT/FABRICATION	24 days	Mon 12/30/13	Thu 1/30/14																
5 PHASE 2 CONSTRUCTION GMP	0 days	Mon 1/6/14	Mon 1/6/14																
6 ESTABLISH PROJECT STAGING	10 days	Mon 1/6/14	Fri 1/17/14																
7 MH STRUCTURE MODIFICATIONS FOR LARGE BYPASSES	195 days	Mon 1/20/14	Mon 10/27/14																
15 MH MODIFICATION FOR PHASE 1 CIPP	75 days	Wed 2/12/14	Tue 5/20/14																
25 MH MODIFICATION FOR PHASE 3 CIPP	100 days	Thu 5/8/14	Fri 10/24/14																
35 MH MODIFICATION FOR PHASE 3 CIPP	60 days	Wed 11/6/14	Tue 2/17/15																
46 PHASE 1 CIPP LINING MH1716-51 TO MH1716-40	73 days	Mon 1/20/14	Wed 4/30/14																
47 SET BYPASS MH2470-01/0088-01 TO MH1716-39 3.55OLF	17 days	Mon 1/20/14	Tue 2/11/14																
48 RUN BYPASS MH2470-01/0088-01 TO MH1716-39 3.55OLF	46 days	Wed 2/12/14	Fri 4/18/14																
49 SET BYPASS MH2470-01 TO MH2470-02 1.36OLF	5 days	Wed 2/12/14	Tue 2/18/14																
50 RUN BYPASS MH2470-01 TO MH2470-02 1.36OLF	20 days	Wed 2/19/14	Tue 3/18/14																
51 NEW STRUCTURE 1716-48	4 days	Wed 2/19/14	Mon 2/25/14																
52 CIPP SHOT 1 48" 996LF	7 days	Tue 2/25/14	Wed 3/5/14																
60 SET BYPASS MH4196-14/TEMP MH4196-08 TO MH3801-06 1.10OLF	3 days	Tue 3/4/14	Thu 3/6/14																
61 RUN BYPASS MH4196-14/TEMP MH4196-08 TO MH3801-06 1.10OLF	8 days	Fri 3/7/14	Tue 3/18/14																
62 CIPP SHOT 2 54" 1,447LF	10 days	Fri 3/7/14	Thu 3/20/14																
71 SET BYPASS MH1716-47 TO MH1716-39 2.20OLF	2 days	Fri 3/21/14	Mon 3/24/14																
72 RUN BYPASS MH1716-47 TO MH1716-39 2.20OLF	9 days	Tue 3/25/14	Fri 4/4/14																
73 CLOSE RIVER PARK RESTROOMS	9 days	Tue 3/25/14	Fri 4/4/14																
74 CIPP SHOT 3 54" 240LF	3 days	Tue 3/25/14	Thu 3/27/14																
75 CIPP SHOT 4 54" 459LF	3 days	Fri 3/28/14	Tue 4/1/14																
76 CIPP SHOT 5 54" 226LF	3 days	Wed 4/2/14	Fri 4/4/14																
97 OPEN RIVER PARK RESTROOMS	1 day	Mon 4/7/14	Mon 4/7/14																
98 DISMANTLE BYPASS MH1716-47 TO MH1716-39 2.20OLF	1 day	Mon 4/7/14	Mon 4/7/14																
99 PHASE 1 MH COATINGS	24 days	Thu 3/6/14	Tue 4/8/14																
100 WAIT ON TEST RESULTS	10 days	Mon 4/7/14	Fri 4/18/14																
101 DISMANTLE BYPASS MH2470-01 TO MH1716-39 3.55OLF	8 days	Mon 4/7/14	Wed 4/30/14																
102 PHASE 2 CIPP LINING MH1716-40 TO MH1716-20	119 days	Mon 4/7/14	Tue 9/23/14																
175 PHASE 3 CIPP LINING MH1716-20 TO MH6804-18	103 days	Wed 9/24/14	Mon 2/23/15																



SRI Rehabilitation CPM
Schedule

Task	Milestone	Roll Up Critical Task	Split	Group By Summary
Order Task	Summary	Roll Up Milestone	External Tasks	Deadline
Progress	Roll Up Task	Roll Up Progress	Project Summary	



SRI Rehabilitation CPM Schedule

JAN - 3 11/7

**South Rillito West Central Interceptor Construction Manager at Risk
GMP-1 Submittal**

SBE REQUIREMENTS:

Pursuant to discussions held with Terri Spencer, SBE Program Coordinator Pima County Procurement Department, the CMAR is currently working with the SBE Program Coordinator to determine the most applicable SBE requirement for the project. KE&G will endeavor to subcontract to qualified SBE firms to the greatest extent possible in the conduct of the project.