



822B

**SUBMITTAL TO THE FLOOD CONTROL AND WATER CONSERVATION DISTRICT BOARD  
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

**FROM:** General Manager-Chief Engineer

**SUBMITTAL DATE:**  
February 9, 2010

**SUBJECT:** Corona Drains-Main Street Storm Drain  
Project No. 2-0-00203  
Cooperative Agreement

**RECOMMENDED MOTION:**

Approve the Cooperative Agreement between the District and the City of Corona (City); and authorize the Chairman to execute the Agreement documents on behalf of the District.

**BACKGROUND:**

The Agreement sets forth the terms and conditions by which the District will contribute funding to the City for design and construction of a City maintained and operated storm drain. Upon completion of construction, the City will accept the storm drains for ownership, operation and maintenance.

Continued on Page 2

**WARREN D. WILLIAMS**  
General Manager-Chief Engineer

KEC:bjj

<b>FINANCIAL DATA</b>	Current F.Y. District Cost:	\$274,000	In Current Year Budget:	YES
	Current F.Y. County Cost:	N/A	Budget Adjustment:	NO
	Net District Cost:	\$156,000	For Fiscal Year:	09-10, 10-11

<b>SOURCE OF FUNDS:</b> 25120 947420 536200 Zone 2 Contribution to Non-County Agency	Positions To Be Deleted Per A-30	<input type="checkbox"/>
	Requires 4/5 Vote	<input type="checkbox"/>

**C.E.O. RECOMMENDATION:** APPROVE

BY:   
Alex Gann

County Executive Office Signature

- Dep't Recomm.:  Consent  Policy
- Per Exec. Ofc.:  Consent  Policy

Prev. Agn. Ref.:

District: 2nd

Agenda Number:

11.3

ATTACHMENTS FILED WITH THE CLERK OF THE BOARD

FINANCIAL PROCEDURES APPROVED BY: M. CHAND, FINANCE DIRECTOR  
 APPROVED BY:   
 DATE: \_\_\_\_\_  
 Departmental Concurrence by:   
 DATE: \_\_\_\_\_

**FLOOD CONTROL AND WATER CONSERVATION DISTRICT BOARD SUBMITTAL  
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

**SUBJECT:** Corona Drains-Main Street Storm Drain  
Project No. 2-0-00203  
Cooperative Agreement

**SUBMITTAL DATE:** February 9, 2010  
**Page 2**

**BACKGROUND:**

County Counsel has approved the Agreement as to legal form and the City has executed the Agreement.

**FINANCIAL INFORMATION:**

The District is funding all design and construction costs. Sufficient funds are included in District's budget for FY 2009-2010. Additional funds will be included in the District's FY 2010-2011 budget.

KEC:blj

COOPERATIVE AGREEMENT  
Corona Drains-Main Street Storm Drain  
(Project No. 2-0-00203)

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4           The RIVERSIDE COUNTY FLOOD CONTROL AND WATER  
5 CONSERVATION DISTRICT, hereinafter called "DISTRICT", and the CITY OF CORONA,  
6 hereinafter called "CITY", hereby agree as follows:

RECITALS

7  
8           A. CITY has budgeted for and plans to design and construct a segment of the  
9 Corona Drains-Main Street Storm Drain. This facility consists of an underground storm drain  
10 located in Main Street between 8<sup>th</sup> Street and 11<sup>th</sup> Street, hereinafter called "PROJECT", as  
11 shown in concept in red on Exhibit "A" attached hereto, and made a part hereof.

12  
13           B. CITY is willing to: (i) prepare plans and specifications for PROJECT,  
14 hereinafter called "IMPROVEMENT PLANS", in accordance with DISTRICT and CITY  
15 standards, (ii) act as Lead Agency pursuant to the California Environmental Quality Act  
16 (CEQA), (iii) secure all rights of way and regulatory permits necessary to construct, inspect,  
17 operate and maintain PROJECT (iv) allow DISTRICT an opportunity to review  
18 IMPROVEMENT PLANS and regulatory permits prior to advertising PROJECT for  
19 construction, (v) advertise, award and administer a public works PROJECT construction  
20 contract, (vi) provide all construction surveys, materials testing and construction inspection  
21 necessary for construction of PROJECT, (vii) pay all costs related to PROJECT'S design,  
22 construction and administration, subject to agreed upon DISTRICT reimbursements as provided  
23 herein, (viii) upon completion of PROJECT construction, assume ownership and sole  
24 responsibility for the operation and maintenance of PROJECT, (ix) provide to DISTRICT  
25 engineering documentation confirming that PROJECT was constructed in accordance with  
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1 IMPROVEMENT PLANS, and (x) provide to DISTRICT a copy of the reproducible record  
2 drawings of IMPROVEMENT PLANS as provided herein.

3 C. CITY desires that DISTRICT contribute funding for the design and  
4 construction of PROJECT.

5 D. DISTRICT is willing, at its own expense, to (i) review IMPROVEMENT  
6 PLANS prepared by CITY for PROJECT, (ii) review regulatory permits, (iii) inspect the  
7 construction of PROJECT for quality control purposes, and (iv) reimburse CITY for design and  
8 construction costs of PROJECT as provided herein.

9 E. The purpose of this Agreement is to memorialize the mutual understandings  
10 by and between DISTRICT and CITY with respect to design, construction, inspection,  
11 ownership, operation and maintenance, and funding of PROJECT.  
12

13 In consideration of the preceding recitals and the mutual covenants hereinafter  
14 contained, the parties hereto mutually agree as follows:

15 SECTION I

16 CITY shall:

17  
18 1. Prepare or cause to be prepared, PROJECT IMPROVEMENT PLANS in  
19 accordance with DISTRICT and CITY standards, and submit to DISTRICT for their review  
20 prior to awarding a public works construction contract for PROJECT.

21 2. Pursuant to CEQA, assume lead agency role and responsibility for  
22 preparation, circulation, and adoption of all necessary and appropriate CEQA documents  
23 pertaining to the construction, operation and maintenance of PROJECT.  
24

25 3. Obtain at its sole cost and expense, all necessary permits, approvals or  
26 agreements required by any Federal or State resource or regulatory agencies pertaining to the  
27 construction, operation and maintenance of PROJECT. Such documents, hereinafter called  
28

1 "REGULATORY PERMITS", may include but are not limited to, a Section 404 permit issued  
2 by USACOE, a Section 401 Water Quality Certification issued by the California Regional  
3 Water Quality Control Board (CRWQCB), a Section 1601 Streambed Alteration Agreement  
4 issued by the California Department of Fish and Game, and National Pollutant Discharge  
5 Elimination System Permits issued by the State Water Resources Control Board or CRWQCB.

6           4. Prior to advertising PROJECT for construction, provide DISTRICT an  
7 opportunity to review all REGULATORY PERMITS.  
8

9           5. Secure at its sole cost and expense, all necessary rights of way, rights of  
10 entry and temporary construction easements necessary to construct, operate and maintain  
11 PROJECT.

12           6. Keep an accurate accounting of all design costs associated with the  
13 preparation of plans and specifications for PROJECT in conformance with the CITY'S  
14 engineering design proposal shown in Exhibit "B" attached hereto and made a part hereof, and  
15 include this accounting when invoicing DISTRICT for reimbursement of said costs.  
16

17           7. Invoice DISTRICT for fifty percent (50%) of PROJECT design costs upon  
18 execution of this Agreement or upon CITY'S execution of a design contract with its design  
19 consultant, whichever is later. Invoice DISTRICT for the remainder of PROJECT design costs  
20 actually incurred by CITY following signing of IMPROVEMENT PLANS by all appropriate  
21 parties, provided, however, that the total amount of PROJECT design costs invoiced to  
22 DISTRICT shall not exceed one hundred twenty percent (120%) of such costs as shown in  
23 Exhibit "B".  
24

25           8. Advertise, award and administer a public works construction contract for  
26 PROJECT at its sole cost and expense.  
27  
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- 1           9. Invoice DISTRICT for one hundred percent (100%) of lowest responsive  
2 construction bid upon award of contract for PROJECT construction.
- 3           10. Construct PROJECT in accordance with IMPROVEMENT PLANS  
4 approved by CITY.
- 5           11. Inspect construction of PROJECT at its sole cost and expense.
- 6           12. Furnish at its sole cost and expense, all construction survey and materials  
7 testing services necessary to construct PROJECT.
- 8
- 9           13. Grant DISTRICT, by execution of this Agreement, the right to enter upon  
10 property owned or controlled by CITY where necessary and convenient for the purpose of  
11 gaining access to, and performing inspection service for the construction of PROJECT.
- 12           14. Upon completion of PROJECT construction and CITY'S acceptance  
13 thereof, be solely responsible for the ownership, operation and maintenance of PROJECT.
- 14           15. Upon completion of PROJECT construction, provide DISTRICT with a  
15 copy of CITY'S Notice of Completion.
- 16
- 17           16. Upon completion of PROJECT construction, CITY'S civil engineer of  
18 record or construction civil engineer of record, duly registered in the State of California, shall  
19 provide DISTRICT a redlined "record drawing" of IMPROVEMENT PLANS.
- 20           17. Upon CITY acceptance of PROJECT for ownership, operation and  
21 maintenance, invoice DISTRICT for any PROJECT construction costs incurred by CITY in  
22 excess of the original contract amounts for PROJECT, provided any such excess costs are the  
23 direct result of any CITY approved construction change orders. The total sum of all such  
24 additional invoicing shall not exceed five percent (5%) of the original construction contract  
25 amount for PROJECT.
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SECTION II

1  
2 DISTRICT shall:

3 1. Following execution of this Agreement, or following CITY'S execution of a  
4 design contract with its design consultant, whichever is later, reimburse CITY fifty percent  
5 (50%) of PROJECT design costs, in conformance with CITY'S engineering design proposal  
6 shown as Exhibit "B", within thirty (30) days after receipt of CITY'S accounting of and invoice  
7 for such costs.

8  
9 2. Acting as a Responsible Agency under CEQA, take all necessary and  
10 appropriate action to comply with CEQA.

11 3. Review all necessary REGULATORY PERMITS prior to CITY advertising  
12 for bids.

13 4. Review IMPROVEMENT PLANS prior to CITY advertising of  
14 construction contract.

15  
16 5. Following the signing of IMPROVEMENT PLANS by CITY, reimburse  
17 CITY for the remainder of PROJECT design costs actually incurred by CITY within thirty (30)  
18 days after receipt of CITY'S accounting of and invoice for such costs. However, the total  
19 amount of PROJECT design costs reimbursed by DISTRICT shall not exceed one hundred  
20 twenty percent (120%) of such costs as shown in Exhibit "B".

21  
22 6. Following receipt of CITY'S written notice to DISTRICT of the award of a  
23 construction contract, reimburse CITY for one hundred percent (100%) of lowest responsive  
24 construction bid within thirty (30) days following DISTRICT'S receipt of CITY'S accounting  
25 and invoice.

26 7. Conduct periodic inspections of PROJECT construction for quality control  
27 purposes at its sole cost and provide any comments to CITY'S primary inspector who shall be  
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1 solely responsible for all quality control communications with CITY'S contractor(s) during the  
2 construction of PROJECT.

3 8. Following CITY'S acceptance of PROJECT for ownership, operation and  
4 maintenance, reimburse CITY for any CITY approved PROJECT construction costs in excess of  
5 the original contract amount within thirty (30) days after receipt of CITY'S accounting and  
6 invoice. The total sum of any such additional reimbursements shall not exceed five percent  
7 (5%) of the original contract amount for PROJECT construction.  
8

### 9 SECTION III

10 It is further mutually agreed:

11 1. The DISTRICT CONTRIBUTION shall be used by CITY solely for the  
12 purpose of designing and constructing project as set forth herein.

13 2. CITY shall indemnify, defend, save and hold harmless DISTRICT  
14 (including its respective officers, districts, special districts and departments, their respective  
15 directors, officers, Board of Supervisors, elected and appointed officials, employees, agents,  
16 representatives, independent contractors, and subcontractors) from any liabilities, claim,  
17 damage, proceeding or action, present or future, based upon, arising out of or in any way  
18 relating to CITY'S (including its officers, employees, agents, representatives, independent  
19 contractors, and subcontractors) actual or alleged acts or omissions related to this Agreement,  
20 performance under this Agreement, or failure to comply with the requirements of this  
21 Agreement, including but not limited to: (a) property damage; (b) bodily injury or death; (c)  
22 payment of attorneys' fees; or (d) any other element of any kind or nature whatsoever.  
23 DISTRICT shall indemnify, defend, save and hold harmless CITY (including its officers,  
24 employees, agents, representatives, independent contractors, and subcontractors) from any  
25 liabilities, claim, damage, proceeding or action, present or future, based upon, arising out of or  
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1 in any way relating to DISTRICT'S (including its officers, Board of Supervisors, elected and  
2 appointed officials, employees, agents, representatives, independent contractors, and  
3 subcontractors) actual or alleged acts or omissions related to this Agreement, performance under  
4 this Agreement, or failure to comply with the requirements of this Agreement, including but not  
5 limited to: (a) property damage; (b) bodily injury or death; (c) payment of attorneys' fees; or (d)  
6 any other element of any kind or nature whatsoever.

7  
8 3. In the event of any arbitration, action or suit brought by either CITY or  
9 DISTRICT against the other party by reason of any breach on the part of the other party of any  
10 of the covenants and agreements set forth in this Agreement, or any other dispute between the  
11 DISTRICT and CITY concerning this Agreement, the prevailing party in any such action or  
12 dispute, by a final judgment or arbitration award, shall be entitled to have and recover from the  
13 other party all costs and expenses or claims, including but not limited to, attorneys' fees and  
14 expert witness fees. This section shall survive any termination of this Agreement.

15  
16 4. If any provision in this Agreement is held by a court of competent  
17 jurisdiction to be invalid, void, or unenforceable, the remaining provisions will nevertheless  
18 continue in full force without being impaired or invalidated in any way.

19 5. This Agreement is to be construed in accordance with the laws of the State  
20 of California.

21 6. Neither the CITY nor DISTRICT shall assign this Agreement without the  
22 written consent of the other party.

23  
24 7. This Agreement is made and entered into for the sole protection and benefit  
25 of the parties hereto. No other person or entity shall have any right of action based upon the  
26 provisions of this Agreement.

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1           8. Any and all notices sent or required to be sent to the parties of this  
2 Agreement will be mailed by first class mail, postage prepaid, to the following addresses:

3 RIVERSIDE COUNTY FLOOD CONTROL  
4 AND WATER CONSERVATION DISTRICT  
5 1995 Market Street  
6 Riverside, CA 92501  
7 Attn: Administrative Services

CITY OF CORONA  
400 S. Vicentia Avenue  
Corona, CA 92882-2187  
Attn: Nelson Nelson

8           9. Any action at law or in equity brought by any of the parties hereto for the  
9 purpose of enforcing a right or rights provided for by the Agreement, shall be tried in a court of  
10 competent jurisdiction in the County of Riverside, State of California, and the parties hereto  
11 waive all provisions of law providing for a change of venue in such proceedings to any other  
12 county.

13           10. This Agreement is the result of negotiations between the parties hereto, and  
14 the advice and assistance of their respective counsel. The fact that this Agreement was prepared  
15 as a matter of convenience by DISTRICT shall have no import or significance. Any uncertainty  
16 or ambiguity in this Agreement shall not be construed against DISTRICT because DISTRICT  
17 prepared this Agreement in its final form.

18           11. Any waiver by DISTRICT or CITY of any breach by any other party of any  
19 provision of this Agreement shall not be construed to be a waiver of any subsequent or other  
20 breach of the same or any other provision hereof. Failure on the part of DISTRICT or CITY to  
21 require from any other party exact, full and complete compliance with any of the provisions of  
22 this Agreement shall not be construed as in any manner changing the terms hereof, or estopping  
23 DISTRICT or CITY from enforcing this Agreement.

24           12. This Agreement is intended by the parties hereto as a final expression of  
25 their understanding with respect to the subject matter hereof and as a complete and exclusive  
26 statement of the terms and conditions thereof and supersedes any and all prior and  
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1 contemporaneous agreements and understandings, oral or written, in connection therewith. This  
2 Agreement may be changed or modified only upon the written consent of the parties hereto.  
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IN WITNESS WHEREOF, the parties hereto have executed this Agreement on

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(to be filled in by Clerk of the Board)

RECOMMENDED FOR APPROVAL:

**RIVERSIDE COUNTY FLOOD CONTROL  
AND WATER CONSERVATION DISTRICT**

By   
WARREN D. WILLIAMS  
General Manager-Chief Engineer

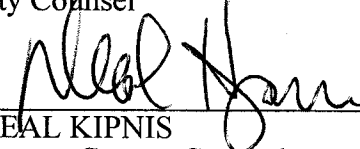
By \_\_\_\_\_  
MARION ASHLEY, Chairman  
Riverside County Flood Control and Water  
Conservation District Board of Supervisors

APPROVED AS TO FORM:

ATTEST:

PAMELA J. WALLS  
County Counsel

KECIA HARPER-IHEM  
Clerk of the Board

By   
NEAL KIPNIS  
Deputy County Counsel

By \_\_\_\_\_  
Deputy

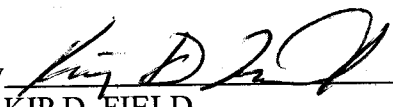
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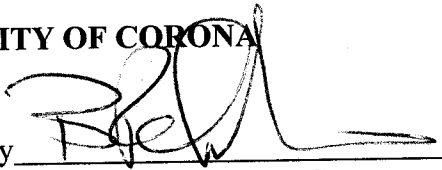
Cooperative Agreement: Corona Drains-Main Street Drain  
KEC:blj  
11/24/09

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RECOMMENDED FOR APPROVAL:


CITY OF CORONA

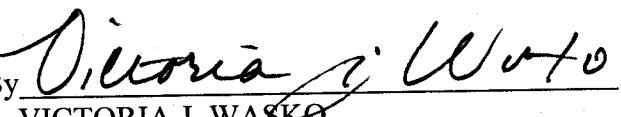
By   
KIP D. FIELD  
Director of Public Works

By   
BRADLY L. ROBBINS  
City Manager

APPROVED AS TO FORM:

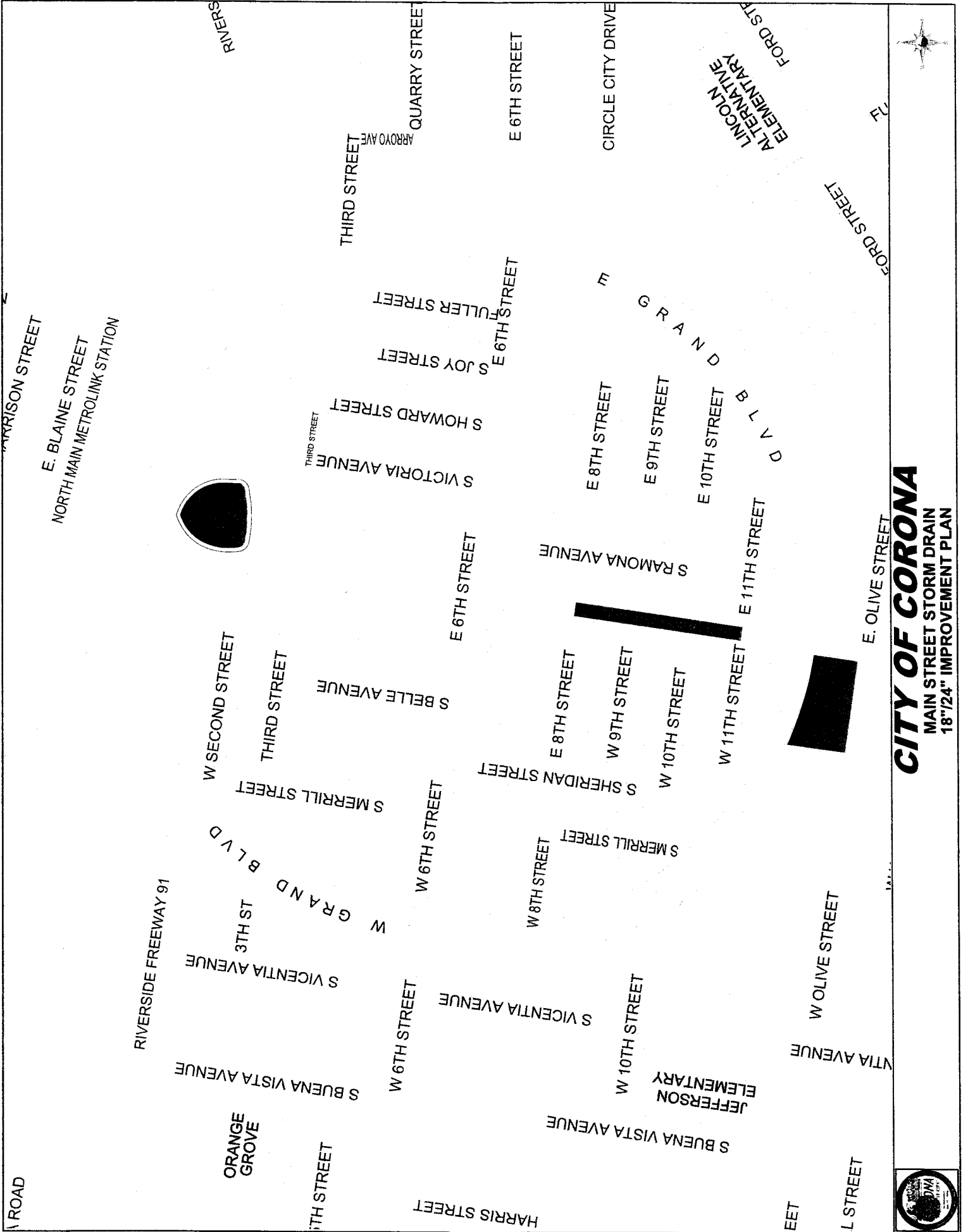
ATTEST:

By   
DEAN DERLETH  
City Attorney

By   
VICTORIA J. WASKO  
City Clerk

(SEAL)

Cooperative Agreement: Corona Drains-Main Street Drain  
KEC:blj:seb  
11/24/09



**CITY OF CORONA**  
 MAIN STREET STORM DRAIN  
 18\"/>



J.N. 2009.1205.1 Revised  
April 9, 2009

City of Corona  
Public Works Department  
Post Office Box 940  
Corona, California 92878-0940

Attention: Nelson D. Nelson

Regarding: City of Corona Public Works - Main Street Storm Drain  
Revised Proposal for Final Engineering Services

Gentlemen,

Our firm is pleased to have this opportunity to provide you with an updated proposal for Final Engineering Services for the Main Street Storm Drain improvement project located along Main Street between Eighth Street and Eleventh Street in the City of Corona (between node 10841 and 10842) per your request in your email dated February 20, 2009, and our recent discussions.

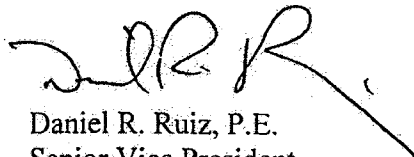
On the succeeding pages of this proposal, we have identified the scope of work and fees that is proposed for this authorization. Briefly those items include utility research, field surveying, storm drain improvement plans and project cost estimates. We estimate that there will be four (4) sheets of plans, assuming that there are six (6) storm drain laterals and catch basins.

We can begin work immediately upon receipt of a Notice-to-Proceed. We anticipate having a first plan check submitted to the City within three (3) to four (4) weeks of authorization. We expect that we can respond to the City's plan check comments within five (5) to ten (10) days of receipt of your compiled comments.

Once again, KWC Engineers appreciates the opportunity to be of service to you on this project. Upon your review of the proposal, should it meet with your approval, please sign the enclosed copy and return it to our office at your earliest convenience. Upon receipt of your written authorization we will initiate our work effort immediately. We look forward to working with you on this project. If you have any questions or comments, please do not hesitate to call.

Sincerely,

**KWC ENGINEERS**



Daniel R. Ruiz, P.E.  
Senior Vice President

\\kwcengadmin\WP\PROPOSAL\09\12051pRev.doc

**CITY OF CORONA – PUBLIC WORKS DEPARTMENT  
 MAIN STREET STORM DRAIN  
 REVISED PROPOSAL FOR FINAL ENGINEERING SERVICE**

**SECTION I – SCOPE OF WORK AND FEES**

**2009.1205.1 - Final Engineering Phase**

.01	Incidental Expenses .....	(LS)	\$	300
	* Reimbursement of bond printing, map reproduction, plotting, electronic data transfers and messenger service			
.02	Meetings and Coordination.....	(LS)	\$	975
	* Attendance at two (2) Project Team Meetings with City, adjacent developer, and their consultant to coordinate design effort			
	* Coordinate storm drain and catch basin design with Developer's consultant			
	* Estimated Time: 6 Hours			
.03	Research.....	(LS)	\$	1,475
	* Obtain As-Built Drawings for existing sewer, water, storm drain and street improvements			
	* Obtain As-Built information for dry utilities			
	* Field verify existing infrastructure within the project limits			
	* Prepare utility company notifications and forward copies to the City			
.04	Design Survey.....	(LS)	\$	2,000
	* Design survey of street centerline, top of curb, and flow line elevations at 50' intervals			
	* Field survey flow lines of above-ground drainage structures if needed			
.05	Aerial Topography Survey- Mapping.....	(LS)	\$	2,025
	* Prepare aerial survey at scale of 1"=40'			
	* DXF file format			
	* Survey map to show a minimum 100' beyond project limits			
	* Office calculations necessary to complete coordinate geometry for aerial survey			



**CITY OF CORONA – PUBLIC WORKS DEPARTMENT  
MAIN STREET STORM DRAIN  
REVISED PROPOSAL FOR FINAL ENGINEERING SERVICE**

.06	Base Map Preparation .....	(LS)	\$	2,450
	* Prepare Project Base Map of project site utilizing record boundary data, "wet utility" information, design survey, and aerial topography			
	* Add underground gas, power and telephone facilities to Project Base Map			
	* Plot As-Built Storm Drain information at points of connection in profile			
.07	Alignment Study .....	(LS)	\$	1,850
	* Conduct a field walk of the project area in order to identify potential utility conflicts and preferred storm drain alignment			
	* Prepare concept alignment study for review with city			
	* Modify storm drain alignment based on city comments			
	* Provide recommendations for potholing of utilities			
.08	Storm Drain Improvement Plans (4 Sheets) .....	(LS)	\$	8,875
	* Prepare Storm Drain improvement plans with hydraulic calculations per City standards for approximately 760 LF (between nodes 10841 and 10842)			
	* Plan set to encompass four (4) sheets, including six (6) storm drain laterals and catch basins			
	* Excludes design for relocation of utilities			
	* Storm drain to be sized based on City's Master Plan hydrology study			
	* Plans to be on 24 x 36 plan & profile sheets in AutoCAD format			
	* Provide six (6) sets for three (3) reviews (60, 90, 100) and mylar			
.09	Catch Basin Hydrology/Hydraulic Study .....	(LS)	\$	2,825
	* Review proposed improvements within project area from adjacent developer			
	* Perform hydrology calculations for each catch basin			
	* Perform sizing calculations and hydraulic analysis for each catch basin			
	* Submit calculations to City for review and approval			

**CITY OF CORONA – PUBLIC WORKS DEPARTMENT  
 MAIN STREET STORM DRAIN  
 REVISED PROPOSAL FOR FINAL ENGINEERING SERVICE**

.10	Project Cost Estimate.....	(LS)	\$	725
	* Prepare construction cost estimate for construction engineering items designed on the Storm Drain improvement plans			
	* Use City provided unit costs and standard industry unit costs as required			
	* Prepare cost estimate in MS Excel format			
	<b>Estimated Fee – Final Engineering Phase</b>		<b>\$</b>	<b>23,500</b>
	<b>TOTAL ESTIMATED FEE – LUMP SUM</b>		<b>\$</b>	<b>23,500</b>

**SECTION II - EXCLUSIONS AND/OR CONDITIONS OF PROPOSAL**

1. KWC has excluded utility relocation design, preparation of easements and right-of-way documents, design beyond the street right-of-way, traffic engineering, and landscaping and irrigation design.
2. This Scope of Work excludes a hydrology study for the mail line storm drain since we have assumed that KWC can rely upon the hydrology study provided by the City of Corona. KWC will prepare separate hydrology calculations for each catch basin.
3. Potholing of utilities is excluded.

**CITY OF CORONA - PUBLIC WORKS DEPARTMENT  
MAIN STREET STORM DRAIN  
REVISED PROPOSAL FOR FINAL ENGINEERING SERVICE**

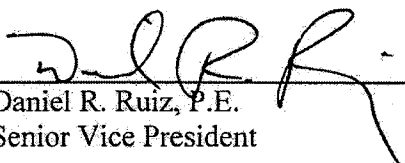
**CONTRACT FOR ENGINEERING SERVICES**

In order to expedite this process, please indicate your approval by issuing the necessary purchase order paperwork to 951-734-9139 or send a PDF via email to [hwiebe@kwcengineers.com](mailto:hwiebe@kwcengineers.com) within three days of date of proposal and mail original.

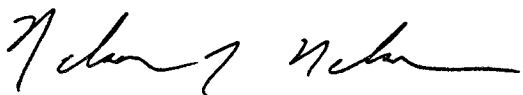
The undersigned agree to all the terms and conditions set forth in the proposal of eight (8) pages, and we do hereby contract for Engineering Services on this phase of the project.

**THE KWC COMPANIES, INC.  
dba KWC ENGINEERS**

**CITY OF CORONA -  
PUBLIC WORKS DEPARTMENT**

  
\_\_\_\_\_  
Daniel R. Ruiz, P.E.  
Senior Vice President

4-9-09  
Date

  
\_\_\_\_\_  
Nelson D. Nelson  
Date

2009 JUL -2 AM 11: 54

J.N. 2009.1205.1.11 & .12  
July 1, 2009

City of Corona  
Public Works Department  
Post Office Box 940  
Corona, California 92878-0940

Attention: Linda Abushaban, Senior Engineer

Regarding: **City of Corona Public Works - Main Street Storm Drain  
Proposal for Additional Final Engineering Services**

Dear Linda,

As a follow-up to our meeting on June 23 regarding the proposed Main Street Storm Drain Improvements, our firm is pleased to submit this proposal for additional engineering services for an extended hydraulic analysis of the existing Main Street Storm Drain system that is outside of KWC's original authorized scope of work. This work is being requested since the City's current Master Plan does not include a detailed analysis of the capacity of the storm drain within the Downtown area to the 91 freeway. The second part of our revised work scope is to provide additional research and construction details for securing existing downstream catch basin grates in the event that they may have the tendency to "pop off" in a 100-year storm event. We will also add new catch basins and laterals to our plans.

Based upon our research of the City's existing storm drain improvements along Main Street and our review of the Drainage Master Plan dated April 2003, we have found limited hydrologic and hydraulic information needed to verify the deficiencies within the existing storm drain mainlines in Main Street and to properly size the proposed storm drain between Eighth Street and Tenth Street. In order to narrow down the scope of this proposed work effort to just the improvements along Main Street, we have made three main assumptions as follows:

- 1) The hydrologic information provided in the Drainage Master Plan is accurate and sufficient for our use in determining the adequacy the existing storm drain main pipe sizes and hydraulic capacities. (City will provide corresponding Drainage Master Plan hydrologic information).
- 2) The existing 72" storm drain and downstream facilities located at E. Grand Blvd. and Railroad Street north of the 91 freeway are adequately sized to accommodate the upstream flows tributary to the Main Street Storm Drain. KWC will use the HGL at this location as the control for our upstream hydraulic model. This will prevent us from performing excessive work effort.
- 3) The existing storm drain lateral pipe sizes are excluded from our analysis.

Should these assumptions prove to be inaccurate, then KWC will notify the City for further direction prior to proceeding with any additional work effort.

The items included in this proposal are as follows:

**CITY OF CORONA PUBLIC WORKS  
MAIN STREET STORM DRAIN  
PROPOSAL FOR ADDITIONAL FINAL ENGINEERING SERVICES**

.11	Storm Drain Hydraulic Study and Capacity Analysis..... (LS)	\$	6,625
	* Additional research of existing mainline storm drain facilities along Main Street and E. Grand Blvd. north of Third Street to Railroad Street.		
	* Review City's Drainage Master Plan and corresponding Hydrologic Model.		
	* Perform hydraulic calculations (WSPG) on existing and proposed mainline storm drain upstream of Railroad Street along E. Grand Blvd. and Main Street in the 100 year storm event.		
	* Identify deficiencies in existing segments of mainline storm drain upstream of Railroad Street along E. Grand Blvd. and Main Street based on our hydraulic analysis.		
	* Study excludes hydraulic analysis of existing storm drain lateral connections and catch basin capacity calculations.		
	* Study excludes hydrologic modeling of watershed tributary to mainline storm drain system.		
.12	Catch Basin Additions and Details..... (LS)	\$	4,500
	* Provide construction details to secure existing catch basin grates within project area based on main line storm drain hydraulic analysis.		
	* Provide design for approx. 8 additional catch basins and laterals between 8 <sup>th</sup> St. and 11 <sup>th</sup> St. as discussed at City meeting on June 23.		

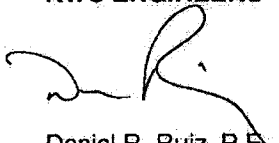
**TOTAL ESTIMATED FEE** \$ 11,125

Upon your review of this proposal, should it meet your approval, please indicate your approval by issuing the necessary change order/purchase order paperwork. We will initiate our work effort as soon as we receive your signed authorization. In order to expedite this process, please fax a signed copy to 951-734-9139 or send a PDF via email to [hwiebe@kwcengineers.com](mailto:hwiebe@kwcengineers.com) and mail original. This will circumvent project complications with work in progress.

Should you have any questions, please feel free to call me directly on my cell at 951-847-6750. We appreciate the opportunity to provide continued service to your firm.

Sincerely,

**KWC ENGINEERS**



Daniel R. Ruiz, P.E.  
Senior Vice President