

**SUBMITTAL TO THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

434



FROM: TLMA - Transportation Department

SUBMITTAL DATE:
July 5, 2012

SUBJECT: Contract Change Orders No. 8 and No. 12 - between the County of Riverside and Griffith Company for the replacement of Van Buren Boulevard Bridge over Santa Ana River, Riverside Area

RECOMMENDED MOTION:

- 1) That the Board execute and authorize the Transportation Department to issue Contract Change Orders No. 8 and No. 12 with Griffith Company.
- 2) That the Board increase the Authority of the Director of Transportation to execute cumulative change orders on the Van Buren Blvd Bridge Project from 10% of the original contract amount as allowed in Board Resolution 2011-015 to 15% of the original contract amount.

Patricia Romo
Deputy Director of Transportation

[Signature]
Juan C. Perez
Director of Transportation

Departmental Concurrence

dj
(Continued On Attached Page)

FINANCIAL DATA	Current F.Y. Total Cost:	\$ 833,568	In Current Year Budget:	Yes
	Current F.Y. Net County Cost:	\$ 0	Budget Adjustment:	No
	Annual Net County Cost:	\$ 0	For Fiscal Year:	2011/2012

SOURCE OF FUNDS: Measure A / Western (48.2%), Jurupa Community Services District (51.8%) There are no general funds used in this project	Positions To Be Deleted Per A-30	<input type="checkbox"/>
	Requires 4/5 Vote	<input checked="" type="checkbox"/>

C.E.O. RECOMMENDATION:

APPROVE

BY: *[Signature]*
Tina Grande

County Executive Office Signature

Dept' Recomm.: Policy
Per Exec. Ofc.: Policy

Consent:
Consent:

MINUTES OF THE BOARD OF SUPERVISORS

On motion of Supervisor Stone, seconded by Supervisor Benoit and duly carried, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Buster, Tavaglione, Stone and Benoit
Nays: None
Absent: Ashley
Date: July 3, 2012
xc: Transp.

Kecia Harper-Ihem
Clerk of the Board
By: *[Signature]*
Deputy

Prev. Agn. Ref. 3.38 of 5/19/09 | District: 2/2 | Agenda Number:

3.36

ATTACHMENTS FILED
WITH THE CLERK OF THE BOARD

The Honorable Board of Supervisors

RE: Contract Change Orders No. 8 and No. 12 - between the County of Riverside and Griffith Company for the replacement of Van Buren Boulevard Bridge over Santa Ana River, Riverside Area

July 5, 2012

Page 2 of 2

BACKGROUND: On May 19, 2009 (agenda item 3.38) the Board entered into an agreement with Griffith Company of Santa Ana, CA for the bridge replacement and the approach roadway improvements on Van Buren Boulevard at the Santa Ana River. The authorized amount of the contract was \$34,834,325.

Contract Change Order No. 8 in the amount of \$401,782.09 became necessary in order to compensate the Contractor for constructing the roadway improvements along the west side of Van Buren Boulevard between Clay Street and the new Van Buren Bridge. Contract Change Order No. 12 in the amount of \$431,785.54 became necessary in order to compensate the Contractor for constructing the JCSD sewer force extension from the new Van Buren bridge south abutment to Jurupa Avenue. This work also includes the installation of approximately 120 lineal feet of 12" Ductile Iron Pipe (DIP) at the intersection of Clay Street and Van Buren Boulevard.

The additional extra work will facilitate construction and minimize disruption to the public in the future. The change orders, in the amount of \$401,782.09 and \$431,785.54 respectively, combine for an amount of \$833,567.63 (2.4% of the original contract amount), each exceeding the Director of Transportation's approval authority under Board Resolution 2011-015.

JUSTIFICATION:

Contract Change Order No. 8 became necessary in order to construct the ultimate street improvements north of Van Buren Bridge to Clay Street in accordance with the City of Riverside/ County of Riverside Animal Shelter plans (MS4173). The proposed street improvements from Clay St. to the Van Buren bridge project limits include providing pavement widening, curb and gutter, sidewalks, catch basin, including electrical conduit and pull boxes for future street lights. This work was intended to be constructed as part of the Animal Shelter improvement project performed by the County's Economic Development Agency. These ultimate street improvements could not be performed by the Animal Shelter contractor because the improvements connected to the new and not yet constructed Van Buren Bridge alignment. This change will be funded with Measure A funds.

Contract Change Order No. 12 became necessary to construct the a new sewer force main extension through the project site in accordance with Jurupa Community Services District plans and standards. These changes were incorporated by JCSD in anticipation of the future sewer force main connection to the City of Riverside treatment plant. The inclusion of the installation of the 24" sewer force main extension and 12" DIP in conjunction with the bridge project construction protects the community's investment in the project by eliminating future construction impacts to that portion of Van Buren Blvd. There will be less impact to the public now and in the future since the construction of the Van Buren Bridge project is in progress. The amount of Contract Change Order No. 12 is funded entirely by JCSD per the attached commitment letter from JCSD.

The inclusion of additional work in this contract is a benefit to the public and surrounding communities, the Department considers that increasing the Director of Transportation's authority for cumulative change orders from 10% to 15% to take into account the financial impacts of these two change orders, is warranted and in the best interest of the public.

LETTER OF TRANSMITTAL

**Local Agency: County of Riverside
Transportation Department**

**DATE: November 10, 2011
File: Van Buren Bridge Project
W.O. No.: B0-0801 ~~R~~ B8-0624
C.C.O.: 8**

TO: Juan C. Perez

From: Hugh Smith

\$401,782.09 (1.76% of the original contract amount of \$22,875,573.00)

This Contract Change Order No. 8 became necessary to construct the ultimate improvements north of the Van Buren Blvd. Bridges to Clay St. in accordance with the City of Riverside / County of Riverside Animal Shelter plans (MS4173). No HBP funds will be used for the improvements.

The work is included in the improvement plans of the Animal Shelter to be constructed by the County's Economic Development Agency. However, the improvements could not be constructed until the completion of the Van Buren Bridge project because the Animal Shelter street plan was designed to connect and match the improvement of the bridges.

The ultimate improvement of Van Buren Blvd. from Clay St. to the limits of the bridge improvement in accordance with the Animal Shelter Plans include increasing traffic lanes, which is not a part of the bridge project plans, but is performed in conjunction with the bridge project to eliminate traffic lane transitions to the existing bridges.

The inclusion of the ultimate roadway improvement at this section of Van Buren Blvd. with the bridge project also alleviates the inconvenience to the travelling public by reduced variation of traffic patterns for passage thru the bridge during construction by both the Animal Shelter and the bridges.

This Contract Change Order is tracked separately for financial purposes.

The amount of this Change Order is \$401,782.09 and the accumulation of all Contract Change Orders thus far, including this one, is \$1,009,186.54.

Previous Contract Change Order Amounts Approved:

See C.C.O. History
(Attached)

\$607,404.45

JUL 03 2012 3.36

File: Van Buren Bridge Project

W.O. No.: B0-0801

C.C.O. No. 8

Page 2

This Contract Change Order was discussed with Mr. Tayfun Saglam and he gave his concurrence to this change.

Adjustment of Time: Deferred Days

ESTIMATE OF COST

Items

Force Account

Agreed Price

\$401,782.09

Adjustment

TOTAL

\$401,782.09



Hugh Smith

Construction Engineer

C. C. O. Category

Agency Mandated	✓
Anticipated Force Account	
Change in Field Conditions	
Design Omission	
ROW Obligations	✓
Upgrades / Benefits	✓
Utilities	✓



COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT

SHEET 1 OF 2 SHEETS

Contract Change Order No. 8

CONTRACT: Van Buren Bridge Project WORK ORDER NO. B0-0801

TO: Griffith Company CONTRACTOR: YOU ARE HEREBY DIRECTED TO MAKE THE HEREIN DESCRIBED CHANGES FROM THE PLANS AND SPECIFICATIONS OR DO THE FOLLOWING DESCRIBED WORK NOT INCLUDED IN THE PLANS AND SPECIFICATIONS ON THIS CONTRACT.

Description of work to be done, estimate of quantities and prices to be paid. Segregated between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

Estimate of Extra Work at Agreed Unit Price:

As directed by the Engineer and in accordance with the applicable sections of the Special Provisions; compensate the Contractor to construct the ultimate roadway improvements on Van Buren Blvd. between Clay St. and the Van Buren Bridges in accordance with the City of Riverside / County of Riverside Animal Shelter Street Improvement Plans. The unit prices include; but not limited to, furnishing labor, equipment, materials and all other incidentals to complete the work in place as follows:

• Item A: Remove Rip Rap	1 LS @ \$1,000.00	=	\$ 1,000.00
• Item B: Remove AC Dike	550 LF @ \$4.66 / LF	=	\$ 2,563.00
• Item C (F): Import Borrow (Final Pay Qty)	4,000 CY @ \$30.85 / CY	=	\$ 123,400.00
• Item D: Hot Mix Asphalt	762 TON @ \$97.05 / TON	=	\$73,952.10
• Item E: Class 2 Aggregate Base	810 CY @ \$47.60 / CY	=	\$38,556.00
• Item F: Concrete Turf Pavers	360 SF @ \$36.00 / SF	=	\$12,960.00
• Item G: Minor Concrete (Curb and Gutter) (CRS 201)	730 LF @ \$24.90 / LF	=	\$18,177.00
• Item H: Minor Concrete (Type "D" Curb) (CRS 204)	520 LF @ \$21.40 / LF	=	\$11,128.00
• Item I: Minor Concrete Driveway (CRS 207)	176 SF @ \$20.79 / SF	=	\$ 3,659.04
• Item J: Minor Concrete Driveway (CRS 207A Mod.)	308 SF @ \$20.79 / SF	=	\$ 6,403.32
• Item K: Minor Concrete Sidewalk (CRS 400 & 404)	7,080 SF @ \$6.00 / SF	=	\$42,480.00
• Item L: Sidewalk Only Type 26 Barrier No Conduit (Caltrans STD B11-54)	220 LF @ 153.74 / LF	=	\$33,822.80
• Item M: Catch Basin (CRS 300) & Gutter Depression Case C (CRS 312) 1 EA	@ \$9,500.00 / EA	=	\$ 9,500.00



COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT

SHEET 2 OF 2 SHEETS

Contract Change Order No. 8

CONTRACT: Van Buren Bridge Project

WORK ORDER NO. B0-0801

TO: Griffith Company CONTRACTOR: YOU ARE HEREBY DIRECTED TO MAKE THE HEREIN DESCRIBED CHANGES FROM THE PLANS AND SPECIFICATIONS OR DO THE FOLLOWING DESCRIBED WORK NOT INCLUDED IN THE PLANS AND SPECIFICATIONS ON THIS CONTRACT.

Description of work to be done, estimate of quantities and prices to be paid. Segregated between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

- Item N: Install Paint Traffic Stripe 1200 LF @ \$0.42 / LF = \$ 504.00 (2-Coat)
Item O: Thermoplastic Markings 92 SF @ \$3.18 / SF = \$ 292.56
Item P: Edison Hand Hole 5 EA @ \$367.50 / EA = \$ 1,837.50 (Caltrans Type 5 "EDISON" on Lid) (Street Lighting)
Item Q: 3" PVC (Sch 80) Conduit 1000 LF @ \$17.85 / LF = \$17,850.00 (Street Lighting)
Item R: 1 1/2" PVC (Sch 80) Conduit 100 LF @ \$10.50 / LF = \$ 1,050.00 (Street Lighting)
Item S: 1/8" Mule Tape (Street Lighting) 1200 LF @ \$2.10 / LF = \$ 2,520.00
Item T: Pull Box Sweeps (Street Lighting) 1 LS @ \$126.77 / LS = \$ 126.77

There will be no adjustment in the Agreed Contract Unit Prices for the above items due to increases or decreases in quantity in excess of 25% of the Engineer's Estimate by reason of this Change Order. Payment will be made for the actual quantity of the items (except Item C - Import Borrow)

Estimated Cost: Decrease \$ Increase \$ 401,782.09

WE, the undersigned contractor, have given careful consideration to the change proposed and hereby agree that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above.

By reason of this proposed change Deferred days adjustment of time will be allowed.

Accepted Griffith Company 11/8/11 Date

Approval Recommended 9/28/11 Date

Approval Recommended Juan C. Perez, Director of Transportation 6/21/12 Date

NOTE: This change order is not effective until approved by County. If the Contractor does not sign acceptance of this order, his attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest with the time therein specified.

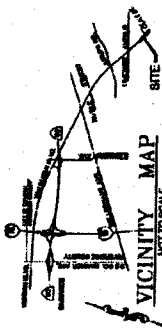
Approval Chairman, Riverside County Board of Supervisors 7/3/12 Date

ATTEST: JOHN TAVAGLIONE

KECIA HARRPER-HEM, Clerk

By DEPUTY

COUNTY OF RIVERSIDE, CALIFORNIA
STREET IMPROVEMENT PLANS
VAN BUREN BOULEVARD



NOTICE TO CONTRACTOR:

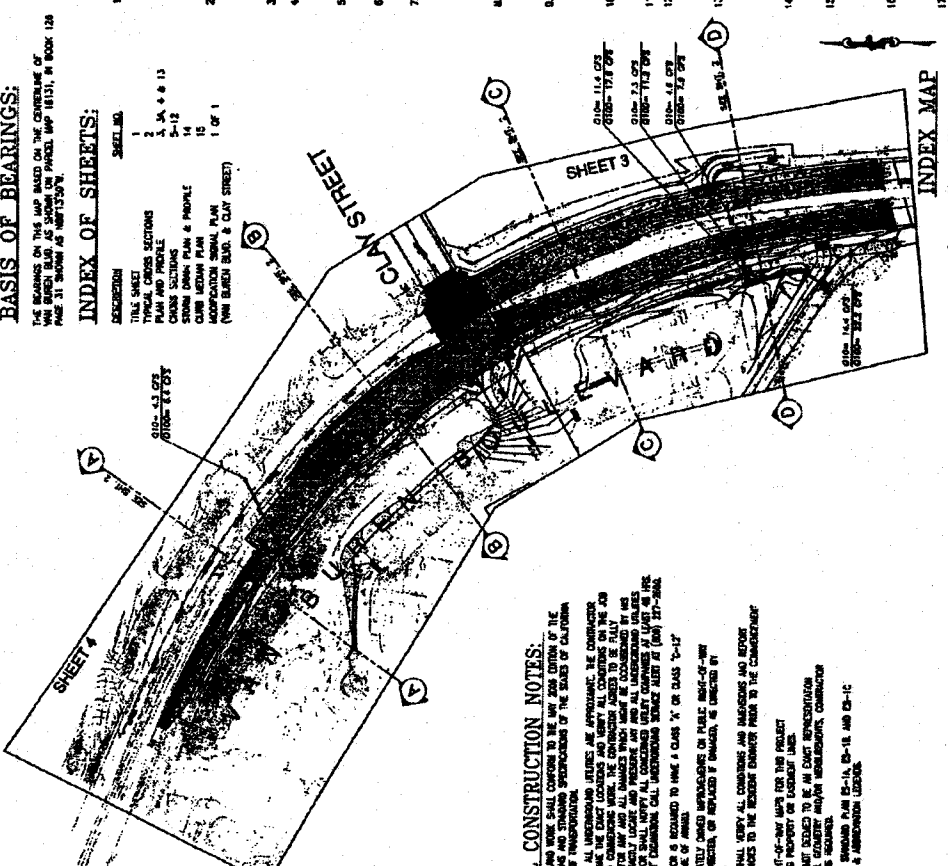
THE LOCATION AND LOCATIONS OF ALL UNDESIRABLE UTILITIES (UTILITY LINES, DRAINAGE, ETC.) SHOWN ON THESE PLANS SHALL BE EXACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES SHOWN ON THESE PLANS AND FOR OBTAINING ALL NECESSARY PERMITS FOR ANY UTILITIES NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE USE OF CONCRETE ASSETS FOR THE PROTECTION OF UTILITIES NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES NOT SHOWN ON THESE PLANS.

BASIS OF BEARINGS:

THE BEARINGS ON THIS MAP BASED ON THE CORNER OF VAN BUREN BLVD AS SHOWN ON PHOTOPLOTTING MAP 18131, IN BOOK 128 PAGE 31 SIGNED AT 10/15/73 BY...

INDEX OF SHEETS:

DESCRIPTION	SHEET NO.
TITLE SHEET	1
TYPICAL CROSS SECTIONS	2, 3, 4, 5 & 13
CONCRETE CURBS	6-12
CLAY STREET	14
CLAY STREET	15
ADJUSTMENT SIGNAL PLANS (VAN BUREN BLVD. & CLAY STREET)	1 OF 1



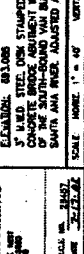
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STORM DRAIN CONSTRUCTION NOTES & QUANTITY ESTIMATE		
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GENERAL CONSTRUCTION NOTES:

- 1. ALL UTILITIES AND WORK SHALL CONFORM TO THE LATEST EDITION OF THE STANDARD PLANS AND SPECIFICATIONS OF THE STATE OF CALIFORNIA.
- 2. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES SHOWN ON THESE PLANS AND FOR OBTAINING ALL NECESSARY PERMITS FOR ANY UTILITIES NOT SHOWN ON THESE PLANS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES NOT SHOWN ON THESE PLANS.
- 4. ALL UTILITIES NOT SHOWN ON THESE PLANS SHALL BE PROTECTED BY CONCRETE CURBS.
- 5. ALL UTILITIES NOT SHOWN ON THESE PLANS SHALL BE PROTECTED BY CONCRETE CURBS.
- 6. ALL UTILITIES NOT SHOWN ON THESE PLANS SHALL BE PROTECTED BY CONCRETE CURBS.
- 7. ALL UTILITIES NOT SHOWN ON THESE PLANS SHALL BE PROTECTED BY CONCRETE CURBS.
- 8. ALL UTILITIES NOT SHOWN ON THESE PLANS SHALL BE PROTECTED BY CONCRETE CURBS.
- 9. ALL UTILITIES NOT SHOWN ON THESE PLANS SHALL BE PROTECTED BY CONCRETE CURBS.
- 10. ALL UTILITIES NOT SHOWN ON THESE PLANS SHALL BE PROTECTED BY CONCRETE CURBS.

INDEX MAP



TRANS-PACIFIC CONSULTANTS
FULL SERVICE ENGINEERING AND ARCHITECTURE
4000 VAN BUREN BLVD., SUITE 200, RIVERSIDE, CALIF. 92504
PHONE: 782-1111
FAX: 782-1112

Underground Service Alert
Call toll free
800-453-3848
2827-8840

MR. J. P. ...
COUNTY OF RIVERSIDE
V. BUREN BLVD.
STREET IMPROVEMENT PLANS
TITLE SHEET

STAMPED BY THE ENGINEER
COUNTY OF RIVERSIDE
DATE 10/15/73

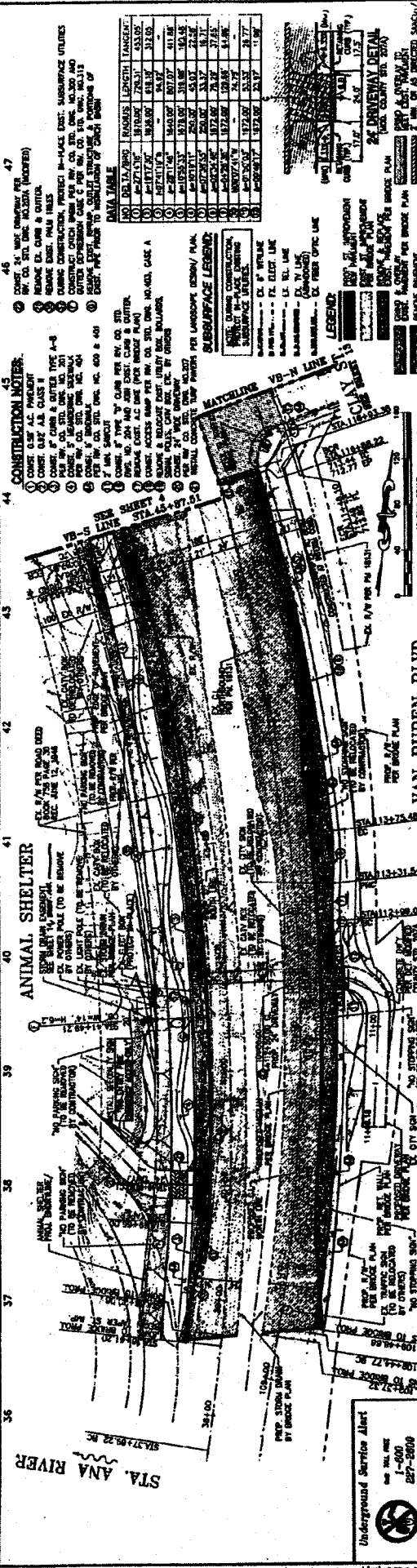
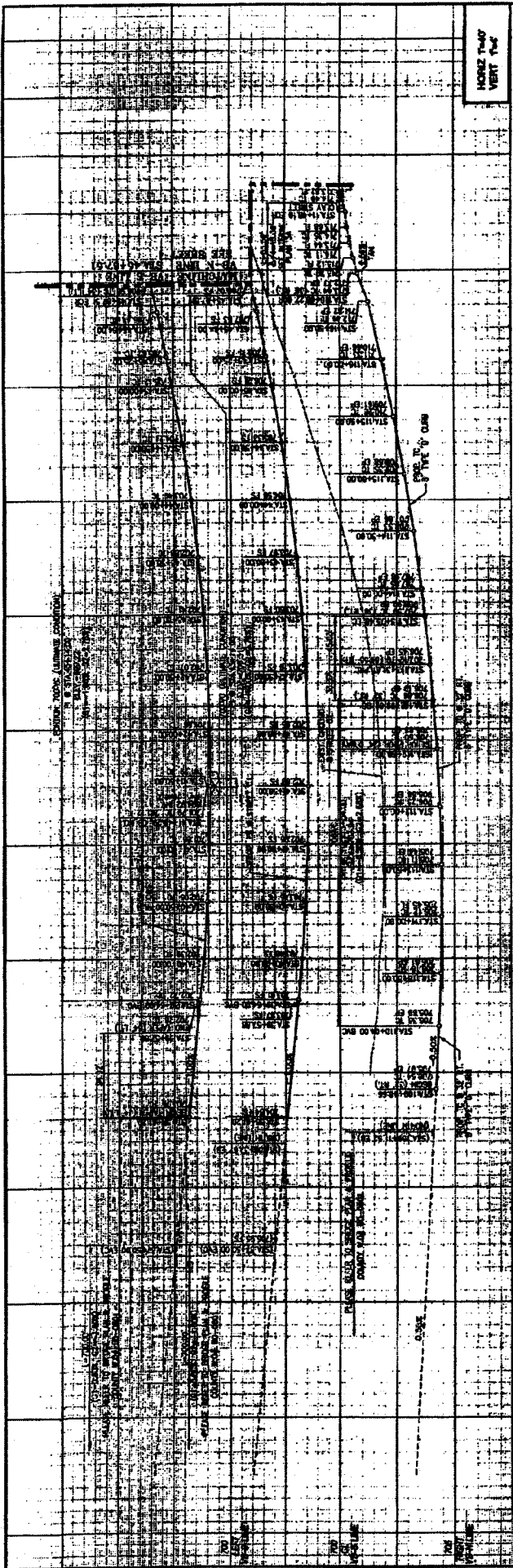
SCALE: HORIZONTAL 1" = 40' VERTICAL 1" = 4'

SCALE: HORIZONTAL 1" = 40' VERTICAL 1" = 4'

STAMPED BY THE ENGINEER
COUNTY OF RIVERSIDE
DATE 10/15/73

STAMPED BY THE ENGINEER
COUNTY OF RIVERSIDE
DATE 10/15/73

STREET CONSTRUCTION NOTES & QUANTITY ESTIMATE
STORM DRAIN CONSTRUCTION NOTES & QUANTITY ESTIMATE
GENERAL CONSTRUCTION NOTES:



UNDERGROUND SERVICE ALERT
 CALL 811
 1-800-487-6868
 247-5888

NO WORKING WITHIN PROTECTED AREAS

NO WORKING WITHIN PROTECTED AREAS

COUNTY OF RIVERSIDE
 TRANSPORTATION DEPARTMENT
 APPROVED BY: *Alan J. [Signature]*
 DATE: 7-22-08

TRANS-PACIFIC CONSULTANTS
 1000 GARDEN STREET
 SUITE 200
 SAN DIEGO, CA 92103
 TEL: 619-444-7777
 FAX: 619-444-7778

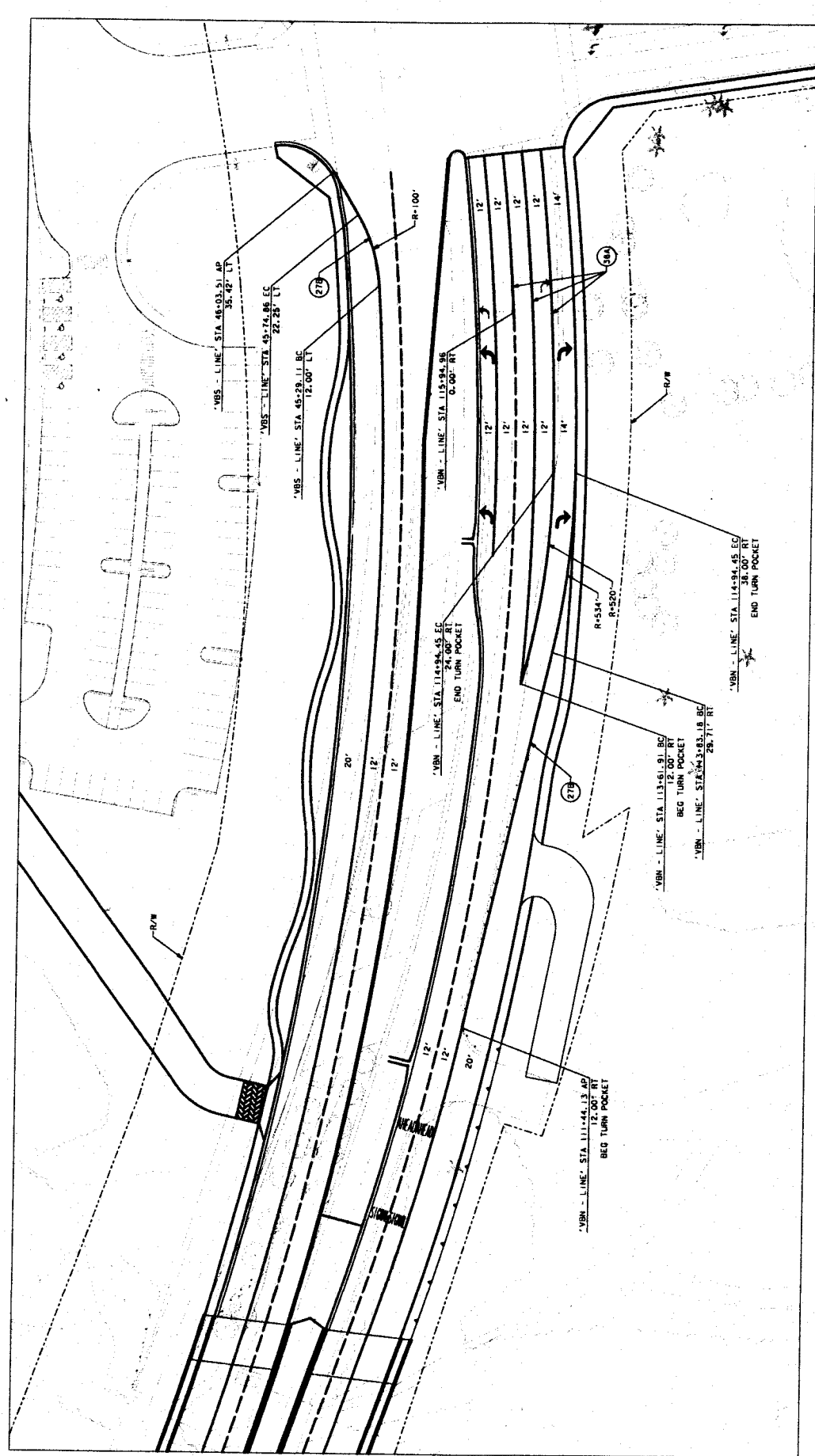
SCALE: HORIZ. 1" = 40'
 VERT. 1" = 4'

SEE SHEET 1

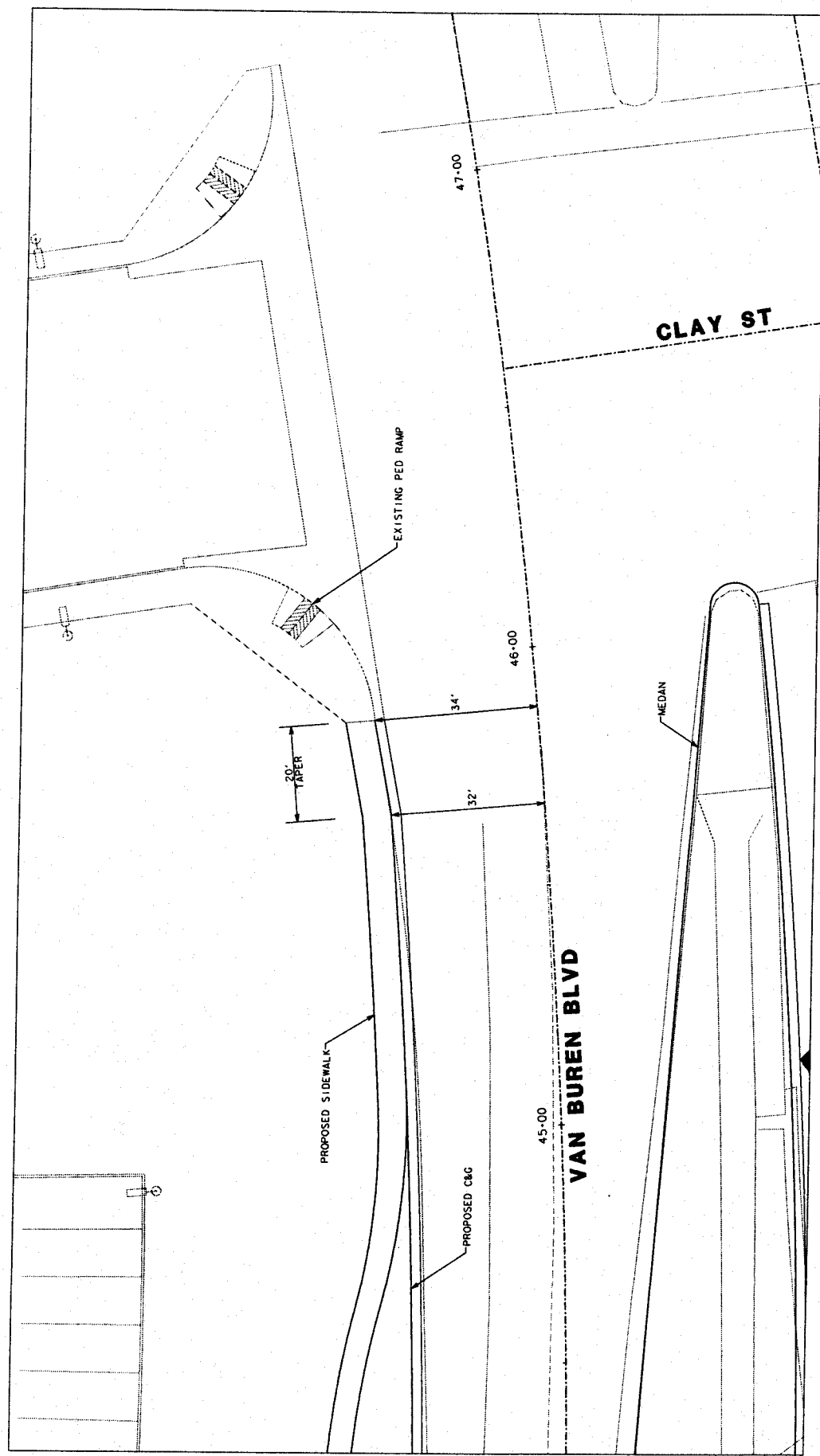
MS. 070177
 COUNTY OF RIVERSIDE
 VAN BUREN BLVD.
 10-1/4" LINE TO THE CENTERLINE
 10-1/4" LINE TO THE CENTERLINE
 (STANDARD DIMENSIONS)

NO. 07-00022
 SHEET 1 OF 15
 DATE: 07-15-08

NO.	DATE	REVISIONS	LENGTH	LANE FEET
01	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
02	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
03	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
04	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
05	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
06	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
07	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
08	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
09	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
10	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
11	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
12	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
13	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
14	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
15	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
16	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
17	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
18	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
19	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
20	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
21	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
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28	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
29	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
30	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
31	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
32	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
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45	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
46	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000
47	07/15/08	ISSUE FOR PERMITS	1.0000	1.0000



DE DOKKEN ENGINEERING	DATE	PROJECT
	JUNE 2011	VAN BUREN BOULEVARD ULT ANIMAL SHELTER STRIPING
SCALE	SCALE 1"=60'	
SHEET NO. 202		



 DEDOKKEN ENGINEERING <small>2345 IRON POINT RD. SUITE 200 FOLSOM, CA 95630 916.562.0842</small>	DATE JUNE 2011	PROJECT VAN BUREN BOULEVARD ULT ANIMAL SHELTER SIDEWALK CONFORM
	SCALE 1"=20'	

Van Buren Bridge and Street Improvements
Contract CCO History

Contract No. 09-04-011
 Work Order No. B0-0801
 Contract Amount \$22,875,573.70

Single Maximum CCO \$150,000.00
 Maximum CCO's \$2,287,557.37
 Tip Budget \$40,627,000.00

Tip Comments:
No Change

=====

CCO No.	Amount This CCO	Authority	Cumulative CCO's	% Original Authorized	Cumulative CCO %	Classification
1	\$50,000.00	Trans. Director	\$50,000.00	0.22%	0.22%	Extra/Unavoidable
2	\$49,957.00	Trans. Director	\$99,957.00	0.22%	0.44%	Extra/Unavoidable
3	\$35,000.00	Trans. Director	\$134,957.00	0.15%	0.59%	Extra/Unavoidable
3S1	\$40,000.00	Trans. Director	\$174,957.00	0.17%	0.76%	Extra/Unavoidable
5	\$50,590.94	Trans. Director	\$225,547.94	0.22%	0.99%	Extra/Unavoidable
4	\$57,633.61	Trans. Director	\$283,181.55	0.25%	1.24%	Extra/Unavoidable
6	\$237,366.90	Board Approval	\$520,548.45	1.04%	2.28%	Extra/Unavoidable
7	\$86,856.00	Trans. Director	\$607,404.45	0.38%	2.66%	Extra/Unavoidable
8	<u>\$401,782.09</u>	Board Approval	\$1,009,186.54	1.76%	4.41%	Extra/Unavoidable
	\$1,009,186.54			4.41%		

New Authorized Contract Total	\$23,884,760.24
Total CCO Dollars To Date	\$1,009,186.54
Total % Increased by CCO's	4.41%

LETTER OF TRANSMITTAL

**Local Agency: County of Riverside
Transportation Department**

**DATE: November 17, 2011
File: Van Buren Bridge Project
W.O. No.: B0-0801
C.C.O.: 12**

TO: Juan C. Perez

From: Hugh Smith

\$431,785.54 (1.89% of the original contract amount of \$22,875,573.00)

Contract Change Order No. 12 became necessary to construct the sewer forcemain extension from Sta 84+32 to 97+44 (Alt No. 2), sewer forcemain extension at the intersection of Van Buren Blvd. and blow-off assembly at Sta 112+73 in accordance with Jurupa Community Services District red lined plans and standards. These changes were incorporated by JCSD in anticipation of the future sewer forcemain connection to the City of Riverside treatment plant.

The inclusion of the installation of the 24" sewer forcemain extension in conjunction with the bridge project promotes convenience and safety for the travelling public. There will be less impact to the public since the construction of the Van Buren Bridge project is in progress.

The installation of the sewer forcemain extension with the bridge project will also eliminate disturbing the new roadway structural section placed with the bridge project and avoid unsightly AC pavement patch work.

The amount of Contract Change Order No. 12 is funded entirely by JCSD per the attached commitment letter from JCSD to Mr. Tayfun Saglam.

JUL 03 2012 3.36

File: Van Buren Bridge Project
W.O. No.: B0-0801
C.C.O. No. 12
Page 2


The amount of this Change Order is \$431,785.54 and the accumulation of all Contract Change Orders thus far, including this one, is \$1,446,785.05.

Previous Contract Change Order Amounts Approved:
See C.C.O. History \$1,014,999.51
(attached)

This Contract Change Order was discussed with Mr. Tayfun Saglam and he gave his concurrence to this change.

Adjustment of Time: 16 Days

ESTIMATE OF COST	
Items	\$431,785.54
Force Account	
Agreed Price	
Adjustment	
<hr/>	
TOTAL	\$431,785.54



Hugh Smith
Construction Engineer

C. C. O. Category

Agency Mandated	√
Anticipated Force Account	
Change in Field Conditions	
Design Omission	
ROW Obligations	✓
Upgrades / Benefits	✓
Utilities	✓

Jane F. Anderson, President
Kenneth J. McLaughlin, Vice President
Kathryn Bogart, Director
Robert "Bob" Craig, Director
Betty A. Anderson, Director



October 3, 2011

Mr. Tayfun Saglam, P.E.
County of Riverside
4080 Lemon Street, 8th Floor
Riverside, CA 92502

RE: VAN BUREN BRIDGE PROJECT – SEWER FORCE MAIN EXTENSION

Dear Mr. Saglam:

As discussed in our recent meeting in which we reviewed the merits of extending the Jurupa Community Services District's (JCSD) sewer forcemain within the current bridge construction project, this letter is to provide the JCSD's commitment to fund the subject construction work. The project scope of work and associated funding obligations were reviewed and approved by our Board of Directors on September 12, 2011. The benefits of conducting the work now rather than deferring construction, includes a reduction in public inconvenience, a reduction in multiagency coordination efforts, and a reduction in facility construction costs.

Therefore, in accordance with a request made by JCSD to the Riverside County Transportation Department, Gabriel Munoz of your staff has solicited alternative construction cost proposals from the subject project's contractor (Griffith Company) to extend portions of the JCSD Regional Forcemain on both the north and south sides of the bridge project.

Of the four alternative proposals provided, JCSD has selected the one entitled "Sewer Forcemain Extension STA 84+32 Alternative 2 (Attachment A) in the amount of \$431,785.54. We note that this financial commitment represents a combination of two existing change order items, contractual impact costs and funding for the new construction scope. As indicated in Griffith Company's cost proposal letter, "If they receive a contract change order by October 7, 2011, the sewer forcemain extension work will have zero impact on the current construction schedule." For ease of review, the specific work included in the selected alternative is shown on the plans and associated details provided in Attachment B.

Attachment C provides an overall program cost summary of the JCSD work to date and proposed scope additions. As shown, the subject forcemain extension work will

Mr. Tayfun Saglam
County of Riverside
RE: Van Buren Bridge Project – Sewer Force Main Extension
October 3, 2011
Page 2

increase the overall JCSD/Riverside County Agreement by approximately \$55,000. In order to maintain a contingency for currently unforeseen work elements, we would suggest that the Agreement be increased by \$95,000, which to our understanding, is within County staff's authorization levels. It is understood and anticipated that further analysis and discussion will be needed to clarify appropriate cash flow transfers from JCSD to the County.

On behalf of JCSD, I want to express our sincerest appreciation to you, Gabriel Munoz, Stan Dery, and your staff to bring this additional work to fruition. Construction of the subject facilities at this stage in our project not only benefits the District and its rate payers but all county residents

Sincerely,



Robert O. Tock, P.E.
Director of Engineering & Operations

Enclosure: Attachments

Copy: Eldon Horst, JCSD
Nem Ochoa, JCSD
Sam Gershon, AAWA
Wally Franz, AAWA
Stan Dery, Riv Cnty
Gabriel Munoz, Riv Cnty

DP 3039/Ltrs/100311Ltr to COR re Force Main Extension 3039DP/NO/kb



COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT

SHEET 1 OF 14 SHEETS

Contract Change Order No. 12

CONTRACT: Van Buren Bridge Project WORK ORDER NO. B0-0801

TO: Griffith Company CONTRACTOR: YOU ARE HEREBY DIRECTED TO MAKE THE HEREIN DESCRIBED CHANGES FROM THE PLANS AND SPECIFICATIONS OR DO THE FOLLOWING DESCRIBED WORK NOT INCLUDED IN THE PLANS AND SPECIFICATIONS ON THIS CONTRACT.

Description of work to be done, estimate of quantities and prices to be paid. Segregated between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

Estimate of Extra Work at Agreed Unit Price:

As directed by the Engineer and in accordance with the applicable sections of the Special Provisions; compensate the Contractor to construct the sewer forcemain extension from STA 84+32 to 97+44 (Alt No. 2), at the intersection of Van Buren Blvd. / Clay St. and install blow-off assembly at Sta 112+73 in accordance with Jurupa Community Services District red lined plans/standards sheets 3 thru 14 of this contract change order.

The work shall include but not limited to; furnishing all labor, materials, equipment, tools, hauling and disposal of discarded construction materials and other incidentals as required.

Item A: 24" DIP Class 150 (STA 87+00 to 97+44)	1044 LF @ \$173.25 / LF	=	\$ 180,873.00
Item B: 24" DIP Class 150 (STA 84+32 to 87+00)	268 LF @ \$210.00 / LF	=	\$ 56,280.00
Item C: 24" DIP Bend (STA 97+07 and 97+32)	2 EA @ \$1,890.00 / EA	=	\$ 3,780.00
Item D: 24" X 6" Blow Off (JCSD Fig. 5-2)	2 EA @ \$7,560.00 / EA	=	\$ 15,120.00
Item E: CDF Between SD and Sewer (STA 97+32)	1 LS @ \$1,260.00 / LS	=	\$ 1,260.00
Item F: Remove Flange and Join Existing	1 EA @ \$630.00 / EA	=	\$ 630.00
Item G: Install 24" X 12" TEE	1 EA @ \$2,940.00 / EA	=	\$ 2,940.00
Item H: Install 12" Plug Valve	1 EA @ \$5,040.00 / EA	=	\$ 5,040.00
Item I: 12" DIP Class 150	120 LF @ \$136.50 / EA	=	\$ 16,380.00
Item J: 24" End Cap	1 EA @ \$1,470.00 / EA	=	\$ 1,470.00
Item K: 12" End Cap	1 EA @ \$1,050.00 / EA	=	\$ 1,050.00
Item L: Crispin Air Valves	1 LS @ \$16,391.04 / LS	=	\$ 16,391.04
Item M: Traffic Control and Trench Repair (Van Buren and Clay) STA 97+44 to 98+06)	1 LS @ \$24,424.52 / LS 16 Days @ \$3,500.00 / Day	=	\$ 24,424.52 = \$ 56,000.00



COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT

SHEET 2 OF 14 SHEETS

Contract Change Order No. 12

CONTRACT: Van Buren Bridge Project WORK ORDER NO. B0-0801

TO: Griffith Company CONTRACTOR: YOU ARE HEREBY DIRECTED TO MAKE THE HEREIN DESCRIBED CHANGES FROM THE PLANS AND SPECIFICATIONS OR DO THE FOLLOWING DESCRIBED WORK NOT INCLUDED IN THE PLANS AND SPECIFICATIONS ON THIS CONTRACT.

Description of work to be done, estimate of quantities and prices to be paid. Segregated between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

Item N: Traffic Control and Trench Repair (STA 82+42 to 84+32)	1 LS @ \$37,454.73 / LS	= \$ 37,454.73
Item O: Time Related Overhead (Delays Caused by Extension STA 97+44 to 98+06)	16 Days @ \$3,500.00 / Day =	\$ 56,000.00
Item P: Sewer Forcemain Extension (STA 97+44 to 98+06)	64 LF @ \$150.00 / LF =	\$ 9,600.00
Item Q: Sewer Forcemain Extension Appurtenances (STA 97+44 to 98+06)	1 LS @ \$3,092.25 / LS =	\$ 3,092.25

Items L, M, N and O are fixed prices and no additional compensation therefore. Payment will be made for the actual quantity of the items performed at unit prices.

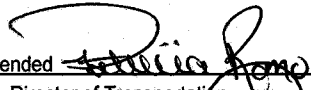
Estimated Cost: Decrease \$ _____ Increase \$ 431,785.54

WE, the undersigned contractor, have given careful consideration to the change proposed and hereby agree that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above.

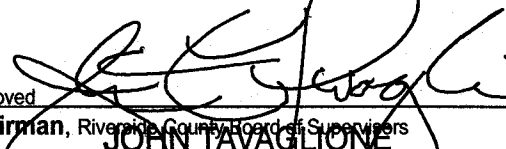

Approval Recommended _____ Date 11/3/11

By reason of this proposed change of 16 days adjustment of time will be allowed

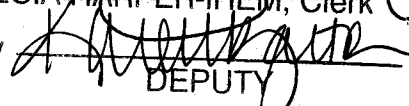
Accepted 
Griffith Company Date 11/10/11


Approval Recommended _____ Date 6/2/12
Juan C. Perez, Director of Transportation

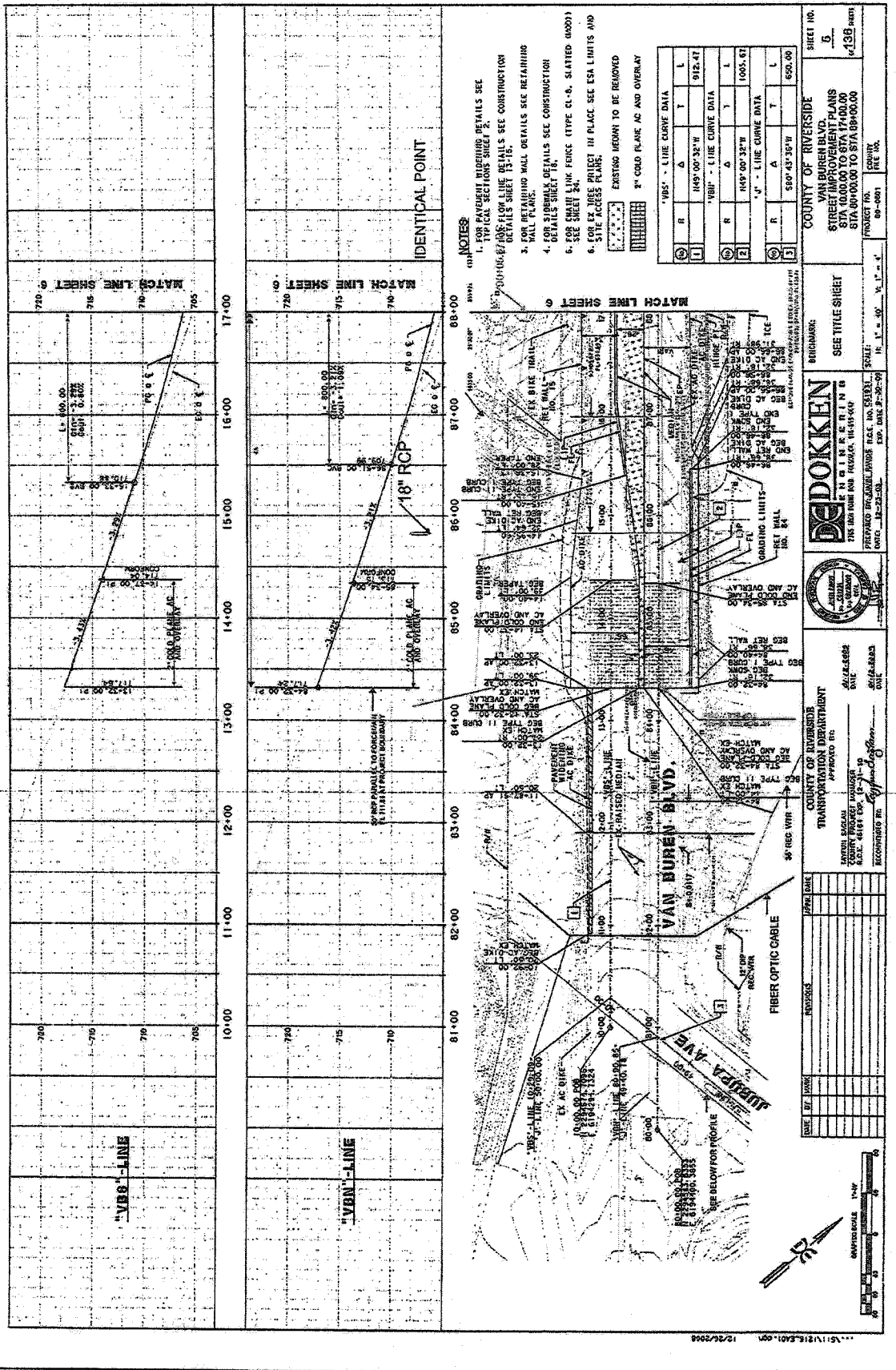
NOTE: This change order is not effective until approved by County. If the Contractor does not sign acceptance of this order, his attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest with the time therein specified.

Approved 

John Tavaglione, Chairman, Riverside County Board of Supervisors Date 7/3/12
KECIA HARPER-JHEM, Clerk

By 
DEPUTY JUL 03 2012 3:30

Attachment B



- NOTES:**
1. SEE SHEET 15 FOR RETAINING WALL DETAILS SEE CONSTRUCTION DETAILS SHEET 15.
 2. FOR RETAINING WALL DETAILS SEE RETAINING WALL PLAN.
 3. FOR SUBURBS DETAILS SEE CONSTRUCTION DETAILS SHEET 16.
 4. SEE SHEET 14 FOR CONC. FENCE (TYPE CL-6, SLATED GROD).
 5. FOR EX JOSE PROJECT IN PLACE SEE ESA UNITS AND SITE ACCESS PLAN.
 6. EXISTING MEDIAN TO BE REMOVED

"VBS" - LINE CURVE DATA	
R	1485'00"32"W
L	912.47
"VBT" - LINE CURVE DATA	
R	1485'00"32"W
L	1005.47
"LJ" - LINE CURVE DATA	
R	560'43"35"W
L	650.00

COUNTY OF RIVERSIDE
VAN BUREN BLVD.
STREET IMPROVEMENT PLANS
 STA 10+00.00 TO STA 17+00.00
 STA 80+000.00 TO STA 89+000.00

DE DOKKEN
 ENGINEERING
 11111 VAN BUREN BLVD., SUITE 100
 VAN BUREN, CA 92583
 TEL: 951-261-1111
 FAX: 951-261-1112

COUNTY OF RIVERSIDE
 TRANSPORTATION DEPARTMENT
 APPROVED BY: _____
 DATE: _____

SCALE: 1" = 40'
 SHEET NO. 5
 TOTAL SHEETS 138

DATE BY: _____
REVISIONS:

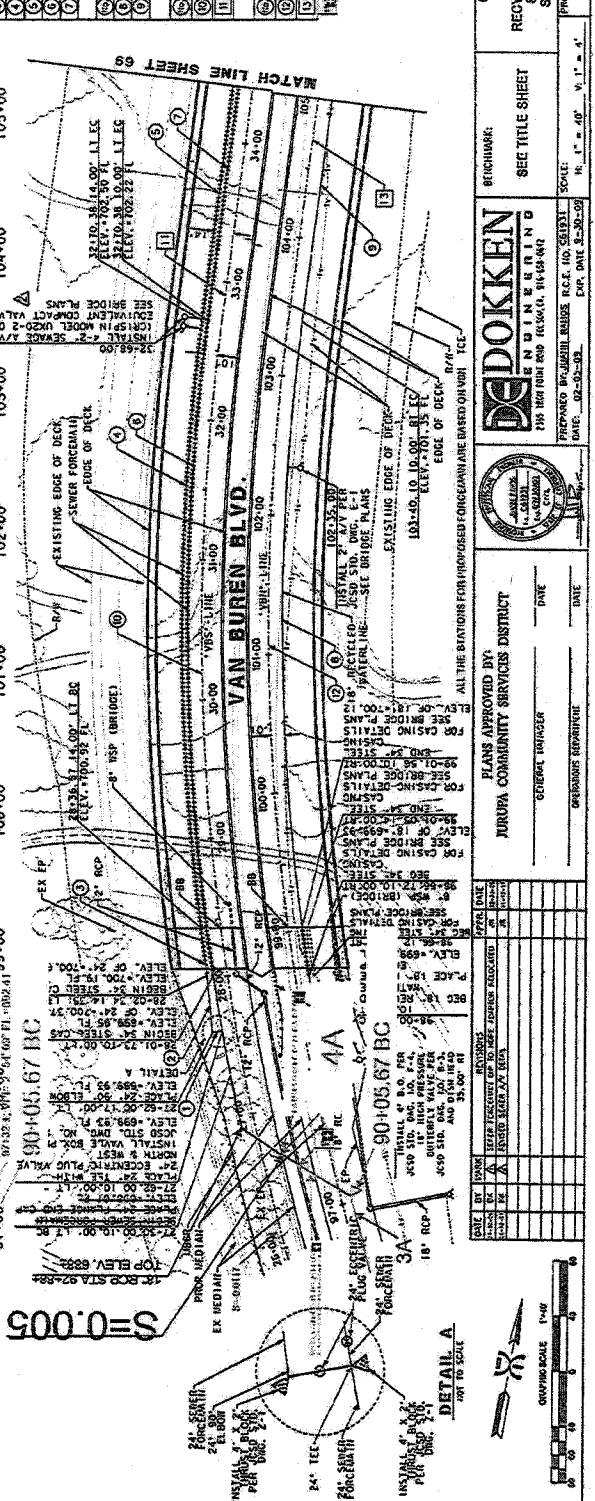
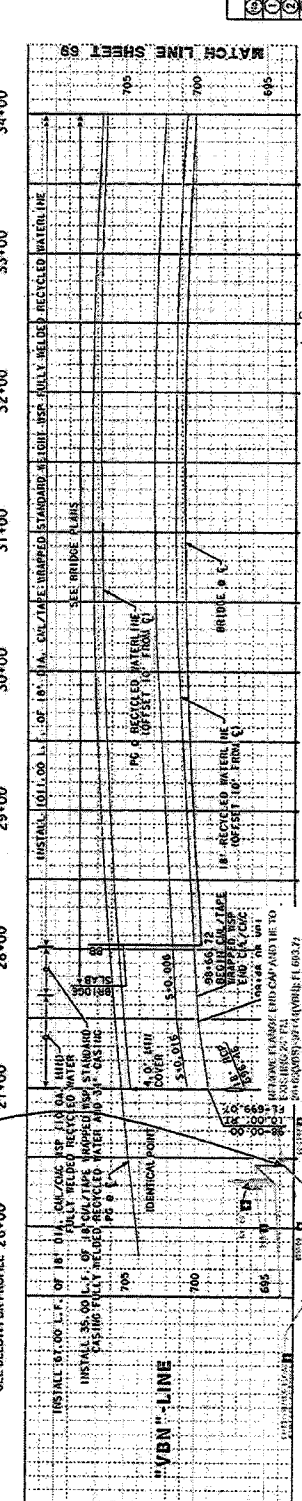
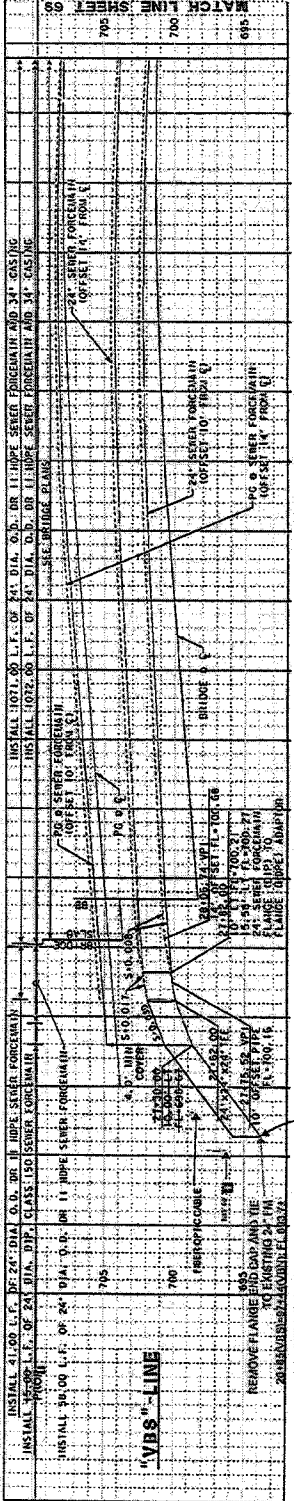
PROJECT NO.: _____
COUNTY: _____
REC. NO.: _____

DATE: _____
SCALE: 1" = 40'

12/26/2008

LEGEND:
 SEWER FOREMATH/RECYCLED WATER LINE
 ENCASED SEWER FOREMATH/ENCASED RECYCLED WATER LINE
 FUTURE UTILITY CASING

NOTES:
 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO THE START OF ANY CONSTRUCTION.
 2. FOR DRAINAGE DETAILS SEE DRAINAGE PLANS & BRIDGE PLANS.
 3. FOR SEWER FOREMATH & WATER LINE DETAILS WITHIN BRIDGE LIMITS SEE BRIDGE PLANS.
 4. FOR UTILITIES WITHIN THE BRIDGE SEE BRIDGE PLANS.
 5. FOR RECYCLED WATERLINE AIR RELEASE VALVE LOCATION DETAILS SEE BRIDGE PLANS.
 6. FOR SEWER FOREMATH AIR RELEASE VALVE DETAILS SEE BRIDGE PLANS.
 7. FOR DETAIL A SEE THIS SHEET.



"SEWER FOREMATH LINE" - CURVE DATA			
R	Δ	T	L
1	570' 03.07"W		7.00
2	815' 30.18"W		40.80
3	817' 21.40"W		34.52
4	582.00	145° 58.24"	28.55
5	1025' 30.15"W		495.84
6	183.00	18° 30.23"	27.19
7	1027' 30.15"W		488.84
"RECYCLED WATERLINE" - CURVE DATA			
R	Δ	T	L
8	830.00	18° 52.09"	270.68
9	1022' 22.99"		538.81
10	804.67		804.67
"VBS" - LINE CURVE DATA			
R	Δ	T	L
11	1873.00	45° 30' 13"	718.86
12	1025' 30' 15"		495.84
"VBN" - LINE CURVE DATA			
R	Δ	T	L
13	1840.00	45° 31' 12"	705.64
14	1025' 30' 15"		495.84

COUNTY OF RIVERSIDE
 VAN BUREN BLVD.
 RECYCLED WATER AND SEWER PLANS
 STA 27+83.00 TO STA 34+00.00
 STA 99+00.00 TO STA 105+00.00

SHEET NO. **60**
 OF **136** SHEETS

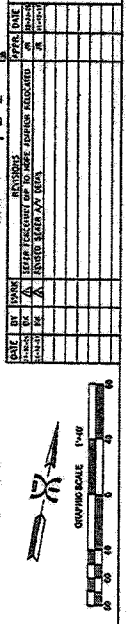
PROJECT NO. **06-0991**
 COUNTY FILE NO.

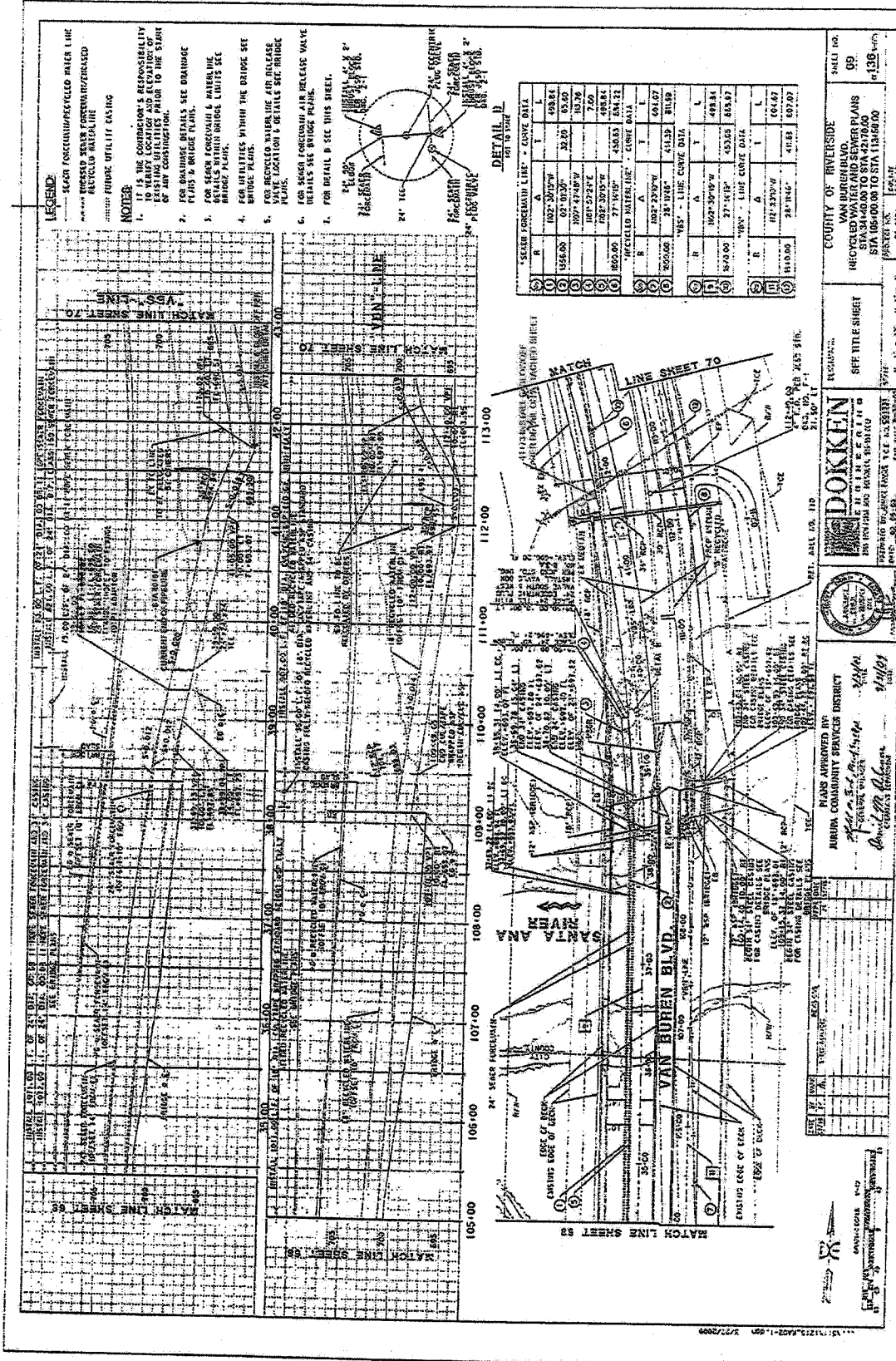
DADOKKEN
 ENGINEERING
 215 10TH ST. RIVERSIDE, CA 92501
 PREPARED BY: JUANITA REYES
 DATE: 02-03-08
 R.C.E. NO. 58351
 EXP. DATE 02-03-10

APPROVED BY: _____
 GENERAL MANAGER
 DATE: _____

JURUPA COMMUNITY SERVICES DISTRICT
 PLANS APPROVED BY: _____
 DATE: _____

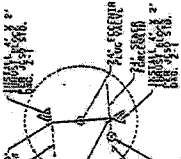
SCALE: 1" = 40'





LEGEND:
 SEWER FOREWELL/RECYCLED WATER LINE
 RECYCLED WATER FOREWELL/RECYCLED
 RECYCLED WATER UTILITY CASING

- NOTES:**
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE START OF ANY CONSTRUCTION.
 2. FOR BRIDGE DETAILS, SEE BRIDGE PLANS & BRIDGE PLANS. SEE BRIDGE PLANS.
 3. FOR SEWER FOREWELL & WATER LINE DETAILS WITHIN BRIDGE LIMITS SEE BRIDGE PLANS.
 4. FOR UTILITIES WITHIN THE BRIDGE SEE BRIDGE PLANS.
 5. FOR RECYCLED WATER LINE AIR RELEASE LOCATION & DETAILS SEE BRIDGE PLANS.
 6. FOR SEWER FOREWELL AIR RELEASE VALVE DETAILS SEE BRIDGE PLANS.
 7. FOR DETAIL B SEE THIS SHEET.



DETAIL B
 24" SEWER FOREWELL

SEWER FOREWELL LINE	CONVE DATA	T	L
A	1027.20/57W	4.8824	4.8824
B	07.03/20	32.20	63.60
C	1027.27/40W	10.70	10.70
D	1027.27/24E	7.20	7.20
E	1027.20/25E	4.8824	4.8824
F	27.76/10E	43.03	43.03

RECYCLED WATER LINE	CONVE DATA	T	L
A	1027.23/20W	6.6127	6.6127
B	28.18/48	41.13	41.13
C	1027.23/20W	6.6127	6.6127
D	1027.23/20W	6.6127	6.6127
E	1027.23/20W	6.6127	6.6127
F	28.18/48	41.13	41.13

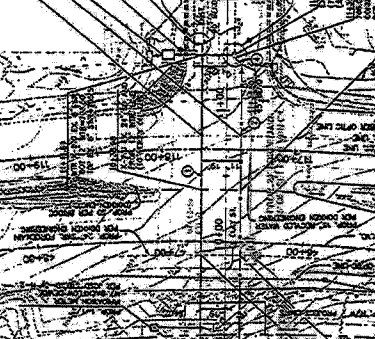
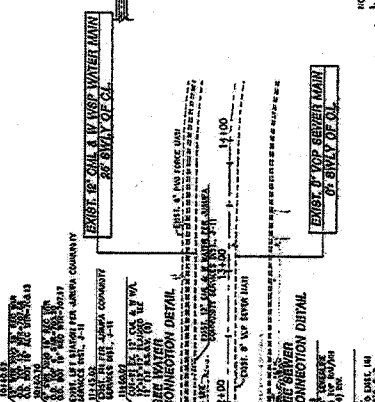
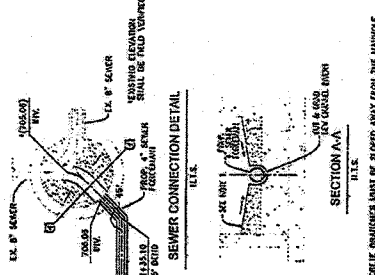
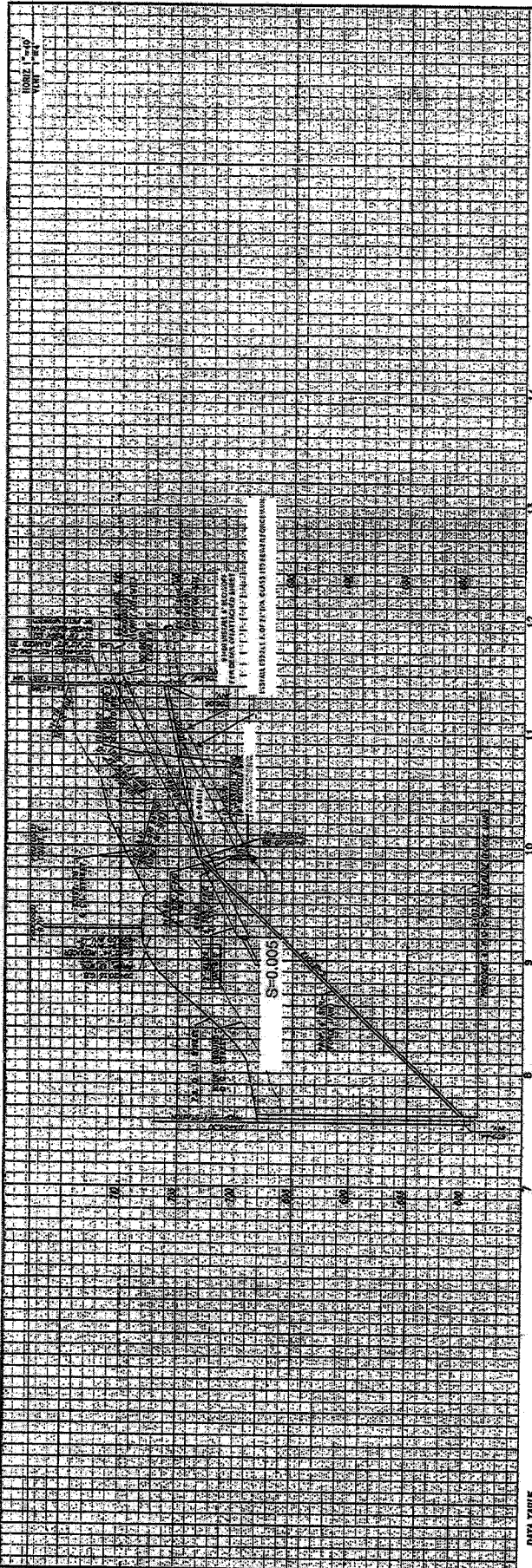
PLANS APPROVED BY:
 ALBERTA COMMUNITY SERVICES DISTRICT
 PROJECT ENGINEER: *[Signature]*
 DATE: 9/10/09

SEAL:
 PROFESSIONAL ENGINEER
 REG. NO. 10000
 EXPIRES: 12/31/10

PROJECT INFORMATION:
 COUNTY OF RIVERSIDE
 VAN BUREN BLVD.
 RECYCLED WATER AND SEWER PLANS
 FROM STA 104+00 TO STA 113+00
 SHEET NO. 1136 OF 136

DATE: 9/10/09
SCALE: AS SHOWN
PROJECT NO.: 03-001

Attachment 'C' to Addendum #2
 Replacement Sheet 9 of 25



GRAPHIC SCALE
 1" = 10' (10:1)
 1" = 40' (40:1)

SECTION A-A
 I.L.S.

NOTE:
 1. COMPLETE CONNECTIONS MUST BE SLOPED AWAY FROM THE MANHOLE
 2. WALL FINISHING ABOVE THE TOP OF THE PIPE AND SLOPED DOWN
 TO THE TOP OF THE PIPE.

MS-4773 IP070777 1 1/4" x 2 1/4" x 1/4"

SEWER CONNECTION DETAIL
 11.5"

WATER CONNECTION DETAIL
 11.5"

ANIMAL CONTROL WATER CONNECTION DETAIL
 11.5"

CLAY STREET

EXIST. 6" SEWER MAIN TO SINK OF G.I.
EXIST. 12" WATER MAIN TO SINK OF G.I.

DATA TABLE

ID	DELTA BRG	TRAVERSE	LENGTH	WANGERT
(1)	000000	79487	500.07	-
(2)	000000	10000	100.00	97.6°
(3)	000000	20000	100.00	97.6°
(4)	000000	30000	100.00	97.6°
(5)	000000	40000	100.00	97.6°
(6)	000000	50000	100.00	97.6°

WATER CONNECTION DETAIL
 I.L.S.

ANIMAL CONTROL WATER CONNECTION DETAIL
 I.L.S.

Underground Service Alert
 On this site there are known underground utility lines. A utility line is shown on this plan which may or may not be present. Digging for anything deeper than 48 inches may damage a utility line and cause a gas leak, fire, flood, or electrical outage.

County of Riverside Permit No. 3-24-03

DATE 3-24-03

DESIGNED BY P. B. ...

CHECKED BY ...

SCALE ...

APPROVAL

DESIGNED BY P. B. ...

CHECKED BY ...

DATE 3-24-03

SCALE ...

PROJECT NO. MS-4773

SHEET NO. 4

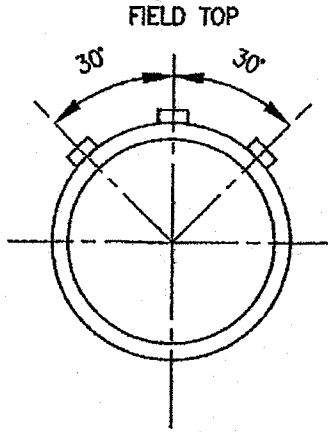
DISTRICT JURUPA COMMUNITY SERVICES DISTRICT

COUNTY RIVERSIDE COUNTY, CALIFORNIA

ADDRESS VAN BUREN BLVD.

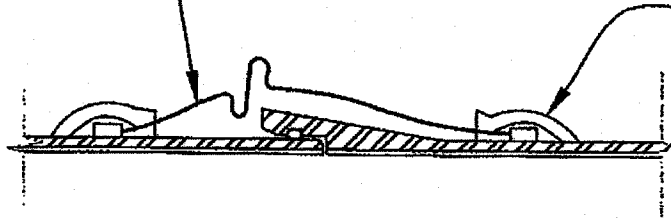
OFF-SITE SEWER AND WATER PLAN

MINIMUM OF TWO (2) BONDING JUMPERS ARE REQUIRED PER PIPE JOINT SMALLER THAN 36"
 MINIMUM OF THREE (3) BONDING JUMPERS ARE REQUIRED PER PIPE JOINT FOR PIPE 36" AND LARGER
 SEE SD-700, SHEET 1, NOTE 1



MIN. TWO (2) HMW/PE STRANDED COPPER BONDING JUMPERS CONNECTED TO PIPE AND FITTINGS BY MEANS OF EXOTHERMIC WELDING. USE MFG'S RECOMMENDED WELDER, CARTRIDGE SIZE, ADAPTER SLEEVE, ETC. FOR DUCTILE IRON PIPE (TYP.)

AFTER WELDING BONDING JUMPERS TO PIPE, APPLY EXOTHERMIC WELDING CAP, PER MANUFACTURER RECOMMENDATIONS. SEE SD-700, SHEET 1, NOTE 3



DIP BONDING CONDUCTOR INSTALLATION

CLEAN PIPE TO BRIGHT METAL IN AREAS WHERE BOND LEADS ARE TO BE ATTACHED (TYP.).
 BONDING CONDUCTORS SHALL HAVE SUFFICIENT SLACK TO ALLOW FOR A TOTAL JOINT DISPLACEMENT OF ONE-HALF(1/2) INCH.

BONDING CABLES			
D.I.P. CLASS 350			
PIPE	NO.	AWG	MAX. LENGTH
16"	2	6	24"
24"	2	6	18"
24"	2	4	24"
30"	2	4	18"
30"	2	2	24"
36"	3	4	24"
42-48"	3	2	24"

FOR DUCTILE IRON PIPE

JURUPA COMMUNITY SERVICES DISTRICT

ALBERT A. WEBB ASSOCIATES
 CONSULTING ENGINEERS
 RIVERSIDE, CA

PIPE JOINT BONDING

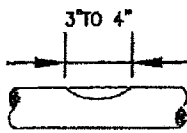
DETAIL NO.

SD-702

SHEET 3 OF 3

EXOTHERMIC WELDING PROCEDURES

REMOVE PIPELINE COATING—
FILE PIPE TO BRIGHT METAL
AND DRY ANY MOISTURE
WITH A TOWEL



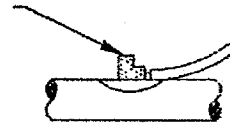
STEP 1

STRIP INSULATION
FROM WIRE (SEE
NOTE NO. 1)



STEP 2

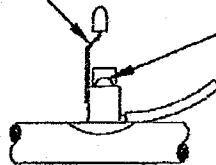
REMOVE SLAG
WITH HAMMER



STEP 4

HOLD WELDER FIRMLY
IN PLACE WHILE
MAKING CONNECTION

APPLY SPARK GUN
AWAY FROM
OPERATOR

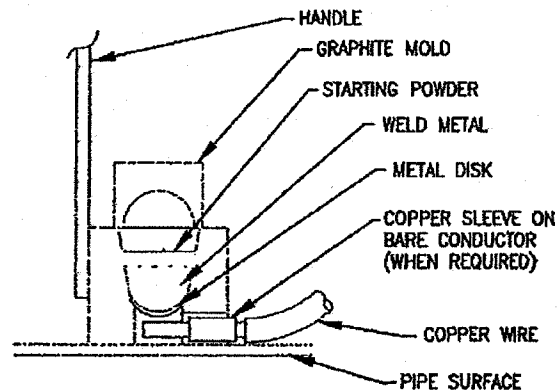


STEP 3

EXOTHERMIC WELDING CAP



STEP 5



GENERAL WELDING PROCEDURE TYPE HA

1. When using #10 to #14 AWG solid wire, it will be necessary to install a copper sleeve of adequate size over the bare end of the wire and crimp in place before attempting to make the connection. The wire should protrude at least 1/8" from the end of the sleeve.
2. Insert the conductor into mold noting any special information under "positioning" for application type in the manufacturers instructions packaged with the welder.
3. Insert steel disk in bottom of cavity inside mold. Dump the weld metal into mold being careful not to upset the steel disk. Tap the bottom of the tube to loosen all the starting powder and spread it evenly over the weld metal. Place a small amount of starting powder on the top edge of mold under cover opening for easy ignition.
4. Close cover and ignite with the flint gun. Move flint gun away quickly to prevent fouling.
5. After ignition, hold the welder in place for a moment to allow the weld to solidify. After the weld has cooled, remove the slag with a chipping hammer or wire brush.
6. Coat the connection and the entire prepared surface with an exothermic welding cap.
7. Remove all slag from the welder before making weld. Clean the cover every 6 to 10 welds.
8. Wet or damp molds will produce porous welds. Molds must be dried out before attempting to weld.
9. Connections are to be placed a minimum of 3" apart. Unsuccessful welds are to be abandoned and move to another prepared surface not less than 3" away.

JURUPA COMMUNITY SERVICES DISTRICT

ALBERT A. WEBB ASSOCIATES
CONSULTING ENGINEERS
RIVERSIDE, CA

EXOTHERMIC WELDING

DETAIL NO.

SD-703

SHEET 1 OF 2

EXOTHERMIC WELDING MATERIALS

1. DUCTILE IRON PIPE—HORIZONTAL

ERICO—CADWELD

<u>WELDER</u>	<u>WELDMETAL</u>	<u>CONDUCTOR</u>	<u>SLEEVE</u>	<u>PIPEϕ</u>
CAHBA-1L-16	CA45XF-19	#10	B133-1L	16"
CAHBA-1H-16	CA25XF-19	#6	-	16"
CAHBA-1V-16	CA45XF-19	#6	CAB112	16"
CANBA-1V-16	CA45XF-19	#2	-	16"
CAHBA-1L-16	CA45XF-19	#4	-	16"
CAHBA-1L-24	CA45XF-19	#10	B133-1L	24"
CAHBA-1H-24	CA25XF-19	#6	-	24"
CAHBA-1V-24	CA45XF-19	#6	CAB112	24"
CAHBA-1V-24	CA45XF-19	#2	-	24"
CAHBA-1L-24	CA45XF-19	#4	-	24"
CAHBA-1L	CA45XF-19	#10	B133-1L	OVER 24"
CAHBA-1H	CA25XF-19	#6	-	OVER 24"
CAHBA-1V	CA45XF-19	#6	-	OVER 24"
CAHBA-1V	CA45XF-19	#2	-	OVER 24"
CANBA-1L	CA45XF-19	#4	-	OVER 24"

CONTINENTAL—THERMOWELD
FOR PIPE SMALLER THAN 24" ϕ , SIZE DESIGNATION IS ON WELDER.

<u>WELDER</u>	<u>WELDMETAL</u>	<u>CONDUCTOR</u>	<u>SLEEVE</u>	<u>PIPEϕ</u>
M-157	25 PCI	#10	A-208	16" AND OVER
M-157	25 PCI	#6	-	16" AND OVER
M-159	45 PCI	#4	-	16" AND OVER
M-161	45 PCI	#2	-	16" AND OVER

2. CCP/PCCP—HORIZONTAL

ERICO—CADWELD

<u>WELDER</u>	<u>WELDMETAL</u>	<u>CONDUCTOR</u>	<u>SLEEVE</u>	<u>PIPEϕ</u>
CAHAA-1L	CA15	#10	B133-1L	6" AND OVER
CAHAA-1H	CA15	#6	-	4" AND OVER
CAHAA-1V	CA32	#6	CAB112	4" AND OVER
CAHAA-1V	CA32	#2	-	4" AND OVER
CAHAA-1L	CA15	#4	-	6" AND OVER

CONTINENTAL—THERMOWELD

<u>WELDER</u>	<u>WELDMETAL</u>	<u>CONDUCTOR</u>	<u>SLEEVE</u>	<u>PIPEϕ</u>
M-102	15	#10	A-208	4" AND OVER
M-102	15	#6	-	4" AND OVER
M-106	15	#4	-	6" AND OVER
M-112	32	#2	-	4" AND OVER

NOTE:

FOR ANY SIZES OF PIPE NOT LISTED, CONTACT THE TUCSON WATER CORROSION UNIT
(520) 791-2648 FOR APPROVED MATERIALS SPECIFICATIONS.

JURUPA COMMUNITY SERVICES DISTRICT

ALBERT A. WEBB ASSOCIATES
CONSULTING ENGINEERS
RIVERSIDE, CA

EXOTHERMIC WELDING

DETAIL NO.

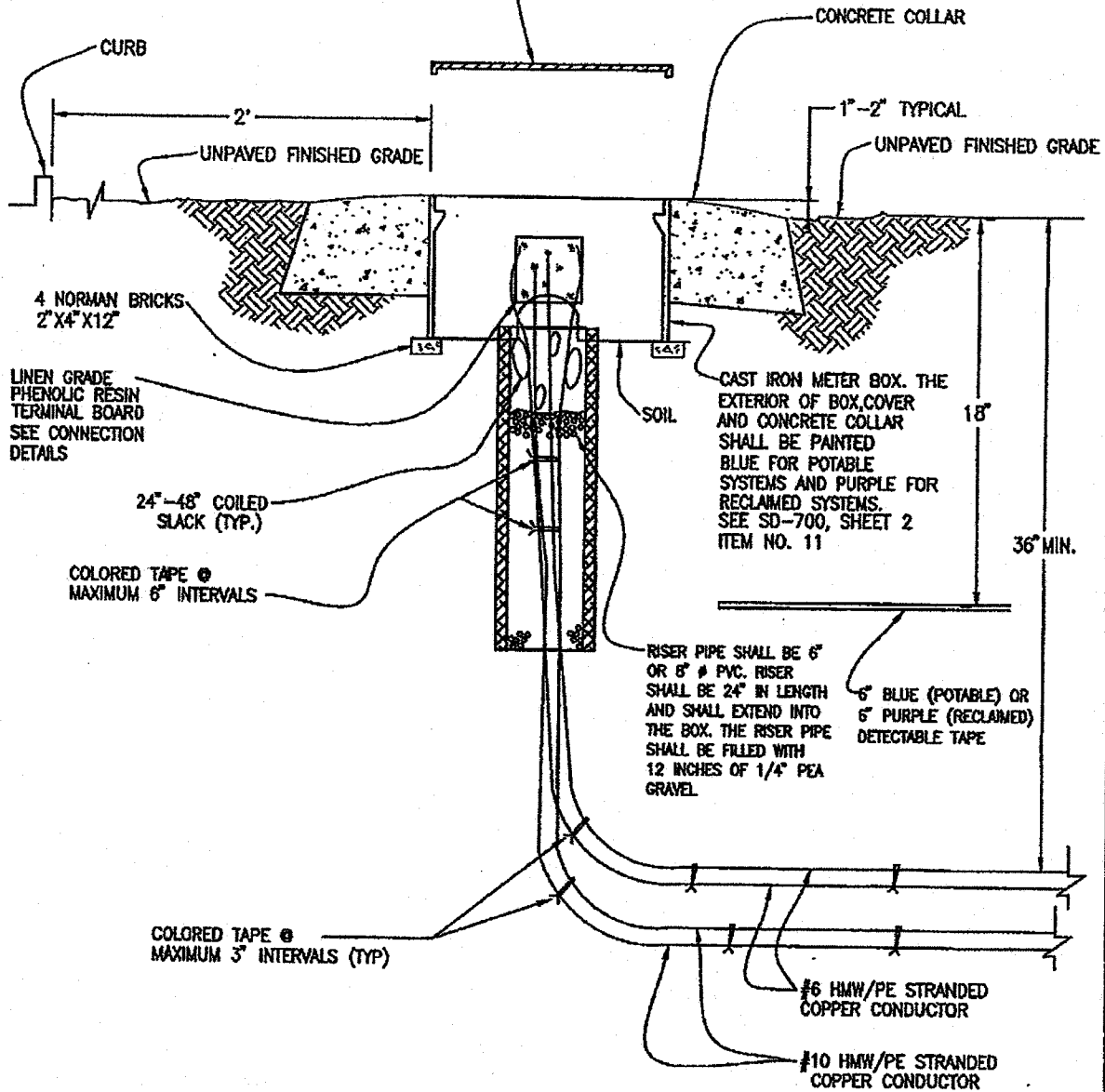
SD-703

SHEET 2 OF 2

METER BOX COVER THE LETTERS "CTS" SHALL BE WELDED OR CAST ON LID. LETTER SIZES SHALL BE 3" HIGH x 1 1/2" WIDE x 1/4" THICK.

NOTE: #1 CONC. METER BOX COVER AND CONCRETE COLLAR SHALL BE PAINTED BLUE (POTABLE) OR PURPLE (RECLAIMED) SEE SD 700, SHEET 2 NOTE 11

NOTE: SET METER BOX 2' BACK OF CURB



JURUPA COMMUNITY SERVICES DISTRICT

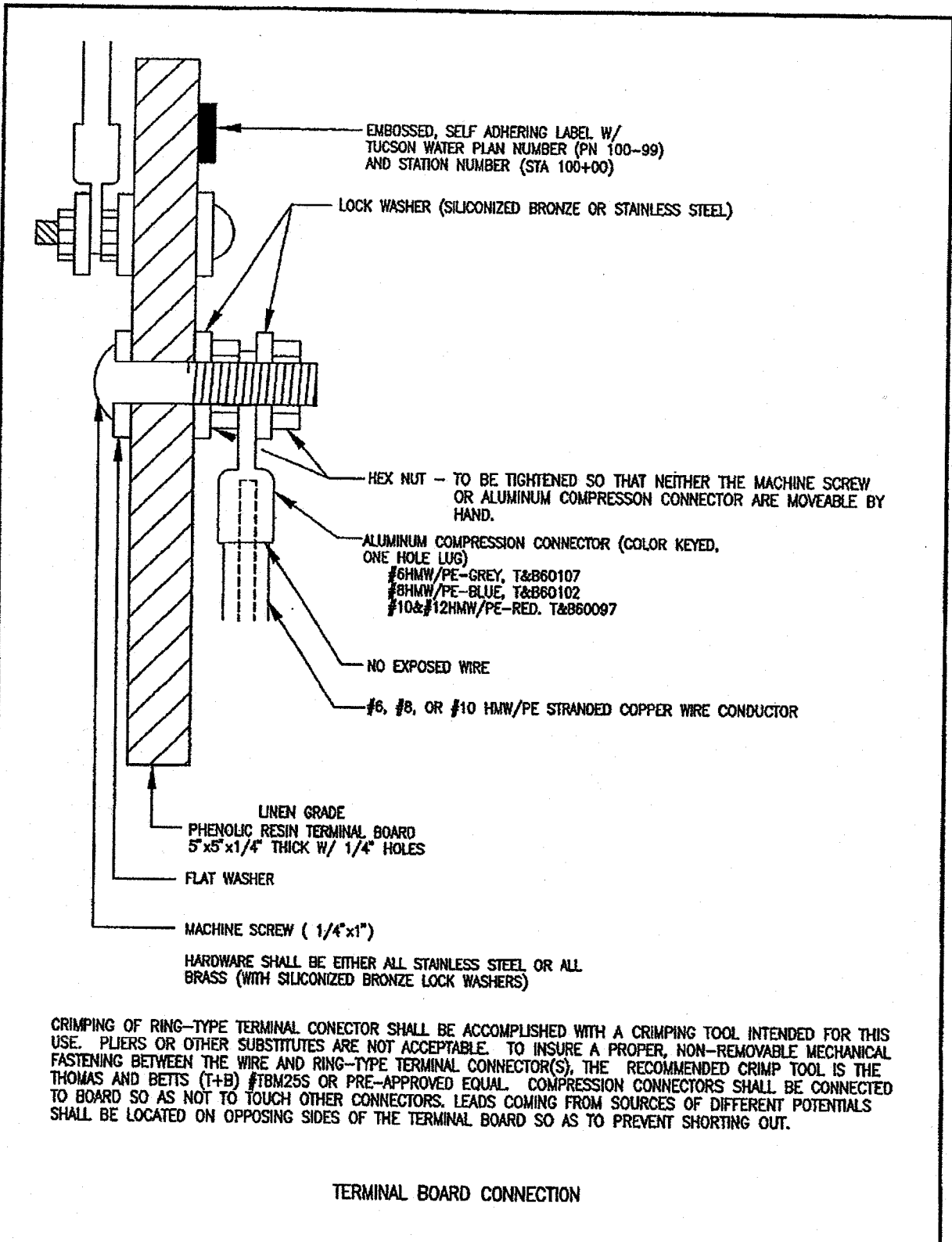
ALBERT A. WEBB ASSOCIATES
CONSULTING ENGINEERS
RIVERSIDE, CA

TEST STATION
BELOW GRADE INSTALLATION

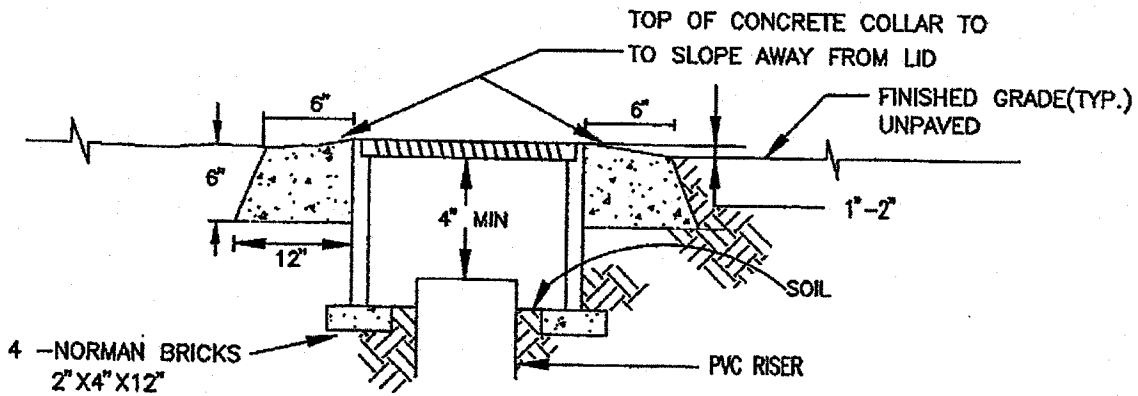
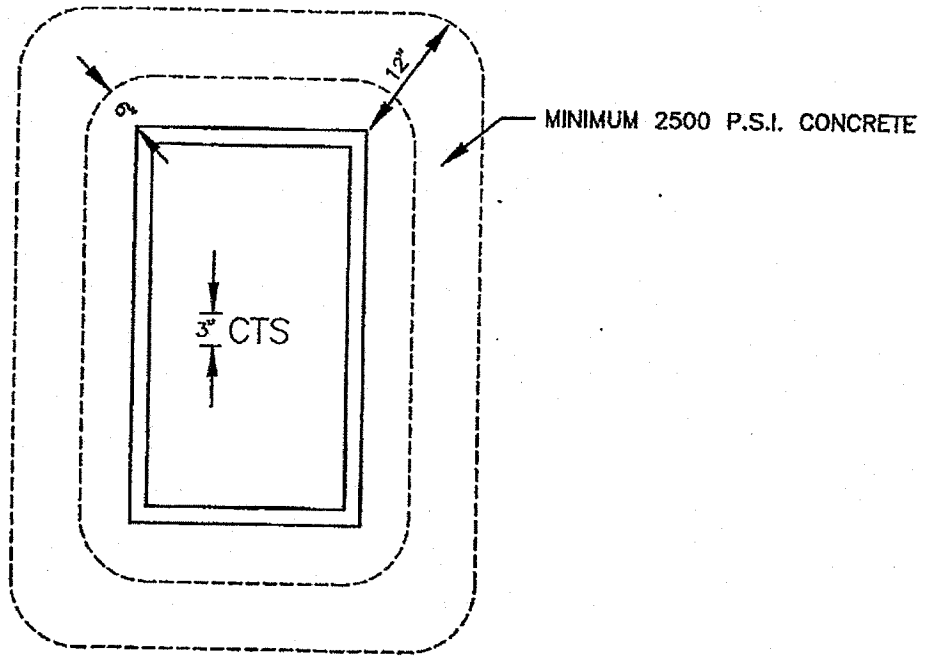
DETAIL NO.

SD-705

SHEET 1 OF 3



JURUPA COMMUNITY SERVICES DISTRICT		DETAIL NO.
		SD-705
ALBERT A. WEBB ASSOCIATES CONSULTING ENGINEERS RIVERSIDE, CA	TEST STATION BELOW GRADE INSTALLATION	SHEET 2 OF 3



NOTE: TOP OF BOX IS TO BE SET 1"-2" ABOVE FINISHED GRADE !

CONCRETE COLLAR

JURUPA COMMUNITY SERVICES DISTRICT

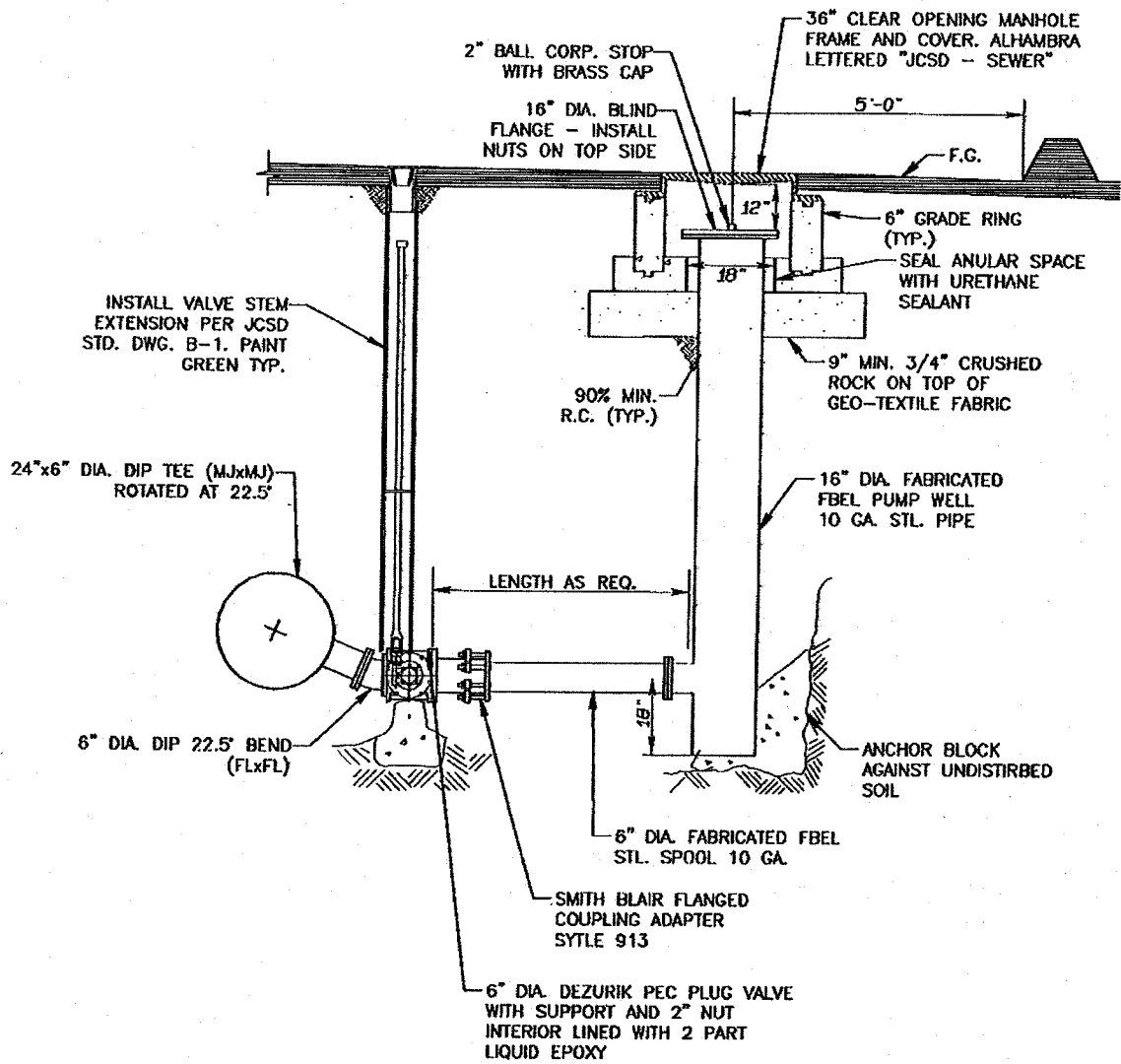
ALBERT A. WEBB ASSOCIATES
CONSULTING ENGINEERS
RIVERSIDE, CA

TEST STATION
BELOW GRADE INSTALLATION

DETAIL NO.

SD-705

SHEET 3 OF 3



6" FORCEMAIN BLOW OFF

JURUPA COMMUNITY SERVICES DISTRICT

SCALE: NTS
 DATE: SEPTEMBER, 2011

**REGIONAL FORCEMAIN PDR
 FORCEMAIN DRAIN DETAIL**

FIGURE NO.
5-2

APPROVED BY:

ALBERT A. WEBB ASSOCIATES
 CONSULTING ENGINEERS

W.D. 10-0239

REV.

RIVERSIDE

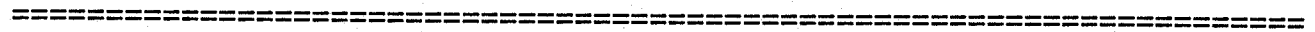
CALIFORNIA

Van Buren Bridge and Street Improvements
Contract CCO History

Contract No. 09-04-011
 Work Order No. B0-0801
 Contract Amount \$22,875,573.70

Single Maximum CCO \$150,000.00
 Maximum CCO's \$2,287,557.37
 Tip Budget \$40,627,000.00

Tip Comments:
No Change



CCO No.	Amount This CCO	Authority	Cumulative CCO's	% Original Authorized	Cumulative CCO %	Classification
1	\$50,000.00	Trans. Director	\$50,000.00	0.22%	0.22%	Extra/Unavoidable
2	\$49,957.00	Trans. Director	\$99,957.00	0.22%	0.44%	Extra/Unavoidable
3	\$35,000.00	Trans. Director	\$134,957.00	0.15%	0.59%	Extra/Unavoidable
3S1	\$40,000.00	Trans. Director	\$174,957.00	0.17%	0.76%	Extra/Unavoidable
5	\$50,590.94	Trans. Director	\$225,547.94	0.22%	0.99%	Extra/Unavoidable
4	\$57,633.61	Trans. Director	\$283,181.55	0.25%	1.24%	Extra/Unavoidable
6	\$237,366.90	Board Approval	\$520,548.45	1.04%	2.28%	Extra/Unavoidable
7	\$86,856.00	Trans. Director	\$607,404.45	0.38%	2.66%	Extra/Unavoidable
8	\$401,782.09	Board Approval	\$1,009,186.54	1.76%	4.41%	Extra/Unavoidable
11	\$5,812.97	Trans. Director	\$1,014,999.51	0.03%	4.44%	Extra/Unavoidable
12	<u>\$431,785.54</u>	Board Approval	\$1,446,785.05	<u>1.89%</u>	6.32%	Extra/Unavoidable
	\$1,446,785.05			6.32%		

New Authorized Contract Total \$24,322,358.75
 Total CCO Dollars To Date \$1,446,785.05
 Total % Increased by CCO's 6.32%