

**CONSTRUCTION RESPONSIBILITY AND REIMBURSEMENT AGREEMENT  
BETWEEN THE COUNTY OF EL DORADO AND THE EL DORADO IRRIGATION DISTRICT  
FOR THE DUROCK ROAD AND BUSINESS DRIVE TRAFFIC SIGNAL  
AND INTERSECTION WIDENING PROJECT #73354**

The County of El Dorado, a political subdivision of the State of California (hereinafter "County"), and the El Dorado Irrigation District, a special district created pursuant to State law (hereinafter "EID"), hereby agree to the following Construction Responsibility and Reimbursement Agreement (hereinafter "Agreement") terms set forth below.

County and EID recognize that County plans to make improvements to Durock Road (hereinafter referred to as "the Project") and EID is installing sewer lines in the same road segment. The EID facilities consist of the installation of approximately 2300 linear feet of 20-inch sewer line between Shingle Lime Road and Product Drive on Durock Road in Cameron Park. The proposed sewer line will be tied to the existing 20-inch sewer line at the intersection of Shingle Lime Road and Durock Road. The existing 20-inch sewer line is approximately 2500 feet in length; it is situated on Durock Road and currently is not in service. It begins at approximately 300 feet west of Eagle Pacific Industries and extends to the intersection of Shingle Lime Road and Durock Road. The existing 20-inch sewer line will be tied to the existing 12-inch force main at the west side of Eagle Pacific Industry. The proposed 20-inch force main will be tied to the existing 12-inch force main at the intersection of Product Drive and Durock Road and is in County's road right-of-way as authorized by an encroachment permit. The existing 12-inch sewer line that extends from the west side of Eagle Pacific Industries to the intersection of Product Drive and Durock Road will be filled with slurry. The sewer line must be installed and all sewer/water appurtenances raised to grade to accommodate the aforesaid Project as a condition of the encroachment permit, at the sole cost of EID.

EID has requested that County include the installation of EID facilities, as detailed in Exhibit A, titled "Sewer Installation Map," incorporated herein and made by reference a part hereof, in County's construction bid package, award documents, and construction contract for the Project, and County has agreed to do so under the terms and conditions of this Agreement.

**A. LIABILITY FOR WORK**

Cost for facilities shall be allocated between EID and County as follows:

1. County has requested and EID has agreed to the installation of the EID Sewer Line as shown on EID Plan for Project No. **00004E** dated **August 2006**, and incorporated by reference herein as Exhibit "D", and as described in the Sewer Installation Map, Exhibit "A", and as further described herein (hereinafter cumulatively referred to as the "EID Sewer Line Installation Work"). County and EID agree that EID shall be responsible for one hundred percent (100%) of the actual costs associated with the EID Sewer Line Installation Work. The initial estimate of the cost of the work by the EID Engineer is set forth in Exhibit B, marked "EID Sole Cost "(Sewer Line

Appurtenances) Cost Estimate, which is incorporated herein and made by reference a part hereof, and which is currently estimated at \$1,953,538 (see Exhibit C, marked "Cost Estimate Summary", incorporated by reference herein and made a part hereof). These amounts include a 10% contingency in addition to the EID's Engineer's Estimate (see Exhibit B). Actual costs for the EID Sewer Line Installation Work may be more or less than this initial estimate.

2. As the work progresses, County shall submit invoices to EID, no more frequently than monthly, with supporting documentation indicating the percentage of the work completed since the previous submittal and the amount of costs then due and owing. The invoices submitted by County to EID will include an accounting of any amount retained by County from the contractor. EID will not be liable for payment of any retention amount shown on the invoices until County pays retention either to the contractor or subcontractor(s) or into an escrow account as provided under the Public Contract Code, whichever occurs first. EID shall make payment of the amount indicated on the invoice within thirty (30) calendar days of receiving each invoice, unless an invoice is challenged in accordance with subsection (3) herein below, in which case EID shall make payment of that portion of the invoice which is not in dispute within thirty (30) calendar days of receiving the invoice.
3. In the event that EID challenges any portion of, or any line item shown on, the invoice from County, then EID shall notify County of such challenge, the basis therefore, and provide adequate justification for the challenge, within ten (10) calendar days of receiving said invoice. If the payment of, or adjustment to, any amount challenged by EID cannot be resolved by the parties within thirty (30) calendar days of notification to County of the challenged amount, then both parties mutually agree to resolve the dispute in accordance with the dispute resolution provisions set forth in the County's construction contract.
4. The final invoice sent by County to EID shall include and clearly indicate any adjustments made throughout the Project, including the total amount of retention due from all previous invoices, and indicate the final payment required. County shall submit the final invoice no later than sixty (60) calendar days after final payment to County's contractor has been made. EID shall pay the final invoice within thirty (30) calendar days of receipt of invoice, subject to the provisions of Section B-3 of this Agreement regarding submittal by County to EID of as-built drawings.

B. Work to be Done

1. In order for County to include the EID Sewer Installation Work in the County's bid package, EID shall provide material specifications to County for the work. EID shall include design drawings, specifications and estimates to County for review and incorporation into County's construction contract documents. Except as provided in Section B-6 below, EID is solely responsible for its installed sewer facilities after construction and its acceptance of the facilities. Three copies of the construction bid package/contract prepared by County will be provided to EID. County bid plans and specifications that incorporate EID's various utility designs, prepared by County shall be reviewed and approved by EID prior to advertising for bids. EID shall be solely

responsible for content accuracy, adequacy, and clarity of the bid plans and specifications pertaining to EID installation work. EID shall have ten (10) working days to review and approve the bid plans and specifications. In addition to content accuracy, adequacy, and clarity, EID review shall include the following scope:

- a. Conformance of sewer line installation design with EID, and applicable Caltrans standards, standard drawings and standard specifications; and conformance with El Dorado County Department of Transportation standards and with the plans, details and specifications for the Project entitled Durock Road and Business Drive Traffic Signal and Intersection Widening, Project #73354.

EID's authorized representative may review the lowest responsible, responsive bidder's documents and may provide recommendations, if any, to County within forty-eight (48) hours of bid opening. Notwithstanding that review, County shall have sole authority to reject any or all construction bids, resolve any bid protests, and/or to award the construction contract for the entire work.

2. EID shall provide, at EID's sole expense, one or more inspectors for all work involving, pertaining to, or affecting EID facilities to verify construction is completed in accordance with EID standards and applicable EID standard drawings and technical specifications.
3. County shall provide EID with a set of as-built drawings. At the conclusion of the final cost accounting, EID shall retain no more than five percent (5%) of the EID reimbursable portion of the total cost associated with EID facilities until as-built drawings are provided and approved by EID.
4. County shall be solely responsible for all items of contract administration for the County's Project, such as surveying and contractor correspondence, except as specified in Sections A-1, B-2, B-8 and D-2 herein.
5. All EID Sewer Installation Work, inclusive of all extra work and additional work as set forth in Section B (8) herein, performed shall be in conformance with all applicable Caltrans, El Dorado County Department of Transportation and EID standards and with the plans, details and specifications for the Project entitled Durock Road and Business Drive Traffic Signal and Intersection Widening, Project #73354.
6. County's contractor shall provide written guarantee of all of its work for one (1) year from acceptance by County. The guarantee shall inure to both County's and EID's benefit.
7. County shall provide in the Project bid specifications for the Project that the selected contractor shall add EID, and its officials, employees, and representatives as an additional insured on contractor's general liability insurance policy for the Durock Road and Business Drive Traffic Signal and Intersection Widening, Project #73354.
8. It is understood that time is of the essence and that County would be harmed by delays to the Project. In order to avoid delays, the County and EID agree that the

County must maintain administrative control of the Project. To protect the County from unnecessary Project delays arising from the EID work, County and EID agree that changes to the EID work on the Project will be handled in the following manner:

- a. **Extra Work Required:** As used in this section, “extra work” means work that is not foreseen at the time the Project is bid, and is not anticipated in the bid documents, but must necessarily be performed in order to address conflicts, changed or differing conditions, or otherwise necessary in order to complete the Project. Any and all extra work required shall be at EID’s sole expense or to EID’s sole credit. EID, at its sole expense, will be responsible for designing and inspecting all facets of any extra work on, related to, or caused by EID facilities.

In the event that a contract change order (“CCO”) is required, the County will notify EID on the next working day from notification from the County’s contractor, and within five (5) working days will prepare a CCO. EID will then have five (5) working days to review, approve, and return the CCO to the County or return it to the County for modification. If EID fails to return the submitted CCO to the County as approved within five (5) days, then the County will take one of the following actions:

- i. The contract change order will be executed by the County per the terms, conditions, and price shown on the contract change order that had been submitted to EID. EID will be required to reimburse the County, in accordance with Section A (1), Liability For Work, for the cost of the CCO.
- ii. The County will direct the contractor to perform the work on a force account basis in accordance with Caltrans Standard Specification 9-1.03. For extra work performed at force account, EID shall be responsible for inspecting the extra work and tracking the time that the contractor's forces spend pursuing the extra work. On each day that extra work is performed at force account, an EID inspector will prepare and sign a work report that details the labor, equipment, and materials that were used during that day’s force account work. Said reports shall be given to County’s Resident Engineer for payment processing. EID will be required to reimburse the County, in accordance with Section A (1), Liability For Work, for the cost of the force account work.
- iii. The County will direct the Contractor to stop work on the Contract only to the extent reasonably deemed necessary by the County. EID will then be responsible for justified costs associated with Project delay arising from the EID work. Such delay costs include but are not limited to right of way delays, extended Contractor overhead, additional water pollution control costs due to the Project extending into winter, and equipment rental. EID will be required to reimburse the County, in accordance with Section A (1), Liability For Work, for all said delay costs.

When the County submits a CCO to EID for EID's review and approval, the CCO will clearly state which of the actions listed above the County intends to take should EID fail to return the CCO to the County within the time specified above. In the event that the CCO exceeds one hundred thousand dollars (\$100,000), County shall only execute actions ii, or iii above.

It is agreed that all increases or decreases in justified costs associated with CCOs related to EID work may include but are not limited to direct construction costs, extended contractor overhead, additional water pollution control costs due to CCOs extending the Project into winter, dust control, and equipment rental.

b. **Additional Work:** As used in this section, "additional work" means work that is not foreseen at the time the Project is bid, and is not necessary work for the Project but may be desirable for the benefit of the EID facilities. Any and all additional work requested by EID shall be at EID's sole expense. EID, at its sole expense, will be further responsible for designing and inspecting all facets of any additional work requested by EID. In the event that EID desires additional work to be performed by the County's contractor, EID shall address its request to the County. If a price for additional work can be directly negotiated between EID and County's contractor, then the additional work will be in accordance with contract change order for the negotiated cost. If the County's contractor and EID cannot agree to a negotiated price, EID may request that the work be performed on a force account basis in accordance with Caltrans Standard Specification 9-1.03. For additional work performed at force account, EID shall be responsible for inspecting the additional work and tracking the time that the contractor's forces spend pursuing the additional work. On each day that EID work is performed at force account, an EID inspector will prepare and sign a work report that details the labor, equipment, and materials that were used during that day's force account work. Said reports shall be given to County's Resident Engineer for payment processing. Before any additional work may commence, County must write and execute the CCO for EID's additional work, at EID's direct negotiated price or at force account, whichever is applicable. EID will then have five (5) calendar days to review, approve, and return the CCO to the County. If EID fails to return the CCO as approved to the County within five (5) calendar days, then the County shall have no obligation to compel the contractor to perform the additional work.

It is agreed that all increases or decreases in justified costs associated with CCOs related to additional EID work may include but are not limited to direct construction costs, extended contractor overhead, additional water pollution control costs due to CCOs extending the Project into winter, dust control, and equipment rental.

c. **EID Forces:** EID may alternatively request of County that EID use its own forces to perform additional work, as that term is defined hereinabove. The determination of whether to allow the additional work to be done by EID forces shall be within County's sole discretion. In the event County determines to allow EID to perform the additional work, EID shall comply with all conditions of County's standard encroachment permit, inclusive of indemnity and insurance, and shall provide proof

of insurance meeting those requirements in advance of the commencement of the work. All additional work performed by EID shall comply with the requirements of this Agreement, with the Project construction schedule and be coordinated with County's contractor work. Any and all of the County's contractor justified extra work, claims or delay costs arising from or caused by EID's force work shall be EID's sole responsibility.

C. Duty of Cooperation, Defense and Indemnity of Contractual Claims

1. County has agreed to include the EID Sewer Installation Work within its Project on condition that EID remain solely responsible for the design, operation, inspection, relocation and maintenance of its facilities, and solely responsible for all actual costs associated therewith, and so long as the performance of the EID Sewer Installation Work does not result in any delays to the County's Project. Accordingly, EID shall fully cooperate with County in the timely response to all inquiries, notices, and contractual claims asserted by the County's contractors and subcontractors as they pertain to the EID Sewer Installation Work. Further, EID shall fully cooperate and assist County in the resolution and/or settlement of all claims from the County's contractor and subcontractors as it relates to the EID Sewer Installation Work. EID shall reimburse County for any amounts paid by County to the County's contractor as a result of the settlement or resolution of said claims.
2. As between EID and County, EID shall bear the sole and exclusive responsibility for any and all errors and omissions, costs associated with delays, claims, penalties, fines, damages, and liabilities of whatever kind or nature arising from the construction of the EID Sewer Line Installation Work, whether to the County's contractor or utility performing work in the Project area. Therefore, to the fullest extent allowed by law, EID shall hold harmless, defend at its own expense, and indemnify COUNTY and the officers, agents, employees and volunteers of COUNTY from any and all fines, penalties, liability, claims, losses, delays, damages or expenses, including reasonable attorney's fees, and economic or consequential losses, which are claimed to or in any way arise out of or are connected with the construction of EID's Sewer Line Installation Work, inclusive of the design, plans and specifications, excepting only the sole or active negligence, or willful misconduct, of the County. Notwithstanding the above, in the event it is ultimately determined that the claim or liability is the result of the joint negligence of County and EID, EID'S obligation to indemnify the County shall be reduced to the extent of County's negligence. However, EID's obligation to defend and indemnify County, except for County's sole and active negligence, shall apply in the first instance and until a determination of respective negligence is made. A determination made of respective liability between the two parties may be made either by agreement between County and EID, or by a court of competent jurisdiction and County shall make any reimbursements required as a result of that determination. Each party shall notify the other party immediately in writing of any anticipated claim or damage related to activities performed under this Agreement. The parties shall cooperate with each other in the investigation and disposition of any claim arising out of the activities under this Agreement, providing that nothing shall require either party to disclose any documents, records or communications that are protected under the attorney-client privilege.

activities performed under this Agreement. The parties shall cooperate with each other in the investigation and disposition of any claim arising out of the activities under this Agreement, providing that nothing shall require either party to disclose any documents, records or communications that are protected under the attorney-client privilege.

D. General Provisions.

1. County shall disclose to its contractor for the Project the horizontal and vertical locations of EID facilities as provided by EID to County. The County's construction contract for the Project shall require the contractor to indemnify and save harmless and defend, including attorneys fees and expenses, EID, its agents, servants, and employees from and against any and all claims, liability, losses, and/or causes of action which arise or are claimed to arise from the negligence or willful misconduct of the contractor, its subcontractor(s), or the agents, servants or employees of any of them.
2. EID shall reimburse County for EID's portion of Flagging Traffic, Traffic Control system, Water and Dust Pollution Control Measures, County Construction Management Costs (which include Inspections, Soils Testing and Surveying) and Mobilization, for the placement of EID's facilities by County's contractor as outlined in this Agreement. All the above listed costs will be calculated at a total of twenty-six percent (26%) of EID's direct construction contract costs related to those facilities detailed in Exhibit A. Listed below is a percentage breakdown of EID's cost responsibilities:

Flagging Traffic. ....	2%
Traffic Control Systems .....	2%
Water and Dust Pollution .....	1%
Construction Management.....	13%
Mobilization.....	8%
	<b>26% Total</b>

See Exhibit B for EID's cost percentage and estimated costs for above items.

EID shall reimburse County for County Construction Management costs for any extra or additional work as defined in Section B(8) above, at a rate of eight (8%)[renegotiable in 2008] of the direct construction cost of the extra or additional work. Any additional flagging, traffic control, water and dust pollution control measures or mobilization required by the extra or additional work shall be included in the direct construction contract cost of the CCO and no additional reimbursement will be added thereto.

3. County shall maintain all books, documents, papers, accounting records, and other evidence pertaining to direct construction costs incurred by County related to those facilities detailed in Exhibit A, and shall make such materials available for inspection at County's offices at reasonable times during this Agreement, the EID sewer facility

4. All notices to be given by the parties hereto shall be in writing and served by depositing same in the United States Post Office, postage prepaid and return receipt requested. Notices to County shall be in triplicate and addressed as follows:

To County:

County of El Dorado  
Department of Transportation  
4505 Golden Foothills Parkway  
El Dorado Hills, CA 95762  
Attn.: Russell A. Nygaard,  
Deputy Director Foothills Division

With a Copy to:

County of El Dorado  
Department of Transportation  
2850 Fairlane Court  
Placerville, CA 95667  
Attn.: Tim C. Prudhel  
Contract Services Officer

And a Copy to:

County of El Dorado  
Department of Transportation  
4505 Golden Foothills Parkway  
El Dorado Hills, CA 95762  
Attn.: Rupa Somavarapu  
Supervising Civil Engineer

or to such other location as County directs in writing.

Notices to EID shall be in duplicate and shall be addressed as follows:

To EID:

El Dorado Irrigation District  
2890 Mosquito Road  
Placerville, CA 95667  
Attn.: Steve Setoodeh,  
Director Facilities Management

With a Copy to:

El Dorado Irrigation District  
2890 Mosquito Road  
Placerville, CA 95667  
Attn.: Elizabeth Wells,  
Co-Manager, Wastewater/Recycle Division

or to such other location as EID directs in writing.

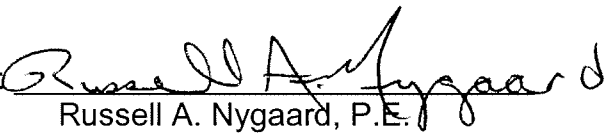
5. The County Officer or employee with responsibility for administering this Agreement is Russell A. Nygaard, Deputy Director of Engineering, Department of Transportation, or successor.



6. The EID Officer or employee with responsibility for administering this Agreement is Elizabeth Wells, Co-Manager, Wastewater/Recycle Division, El Dorado Irrigation District, or successor.
7. The parties to this Agreement represent that the undersigned individuals executing this Agreement on their respective behalf are fully authorized to do so by law or other appropriate instrument and to bind upon said parties to the obligations set forth herein.
8. This Agreement and the attached Exhibits contain all of the terms of agreement between County and EID. All modifications or amendments to this Agreement must be in writing and signed by both parties.
9. Any dispute resolution action arising out of this Agreement, including, but not limited to, litigation, mediation, or arbitration, shall be brought in El Dorado County, California, and shall be resolved in accordance with the laws of the State of California.
10. If any provision of this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions will continue in full force and effect without being impaired or invalidated in any way.
11. The waiver by either party of any requirements, condition or provision of this Agreement shall not be deemed a waiver of any subsequent breach of that or any other requirement, condition or provision of this Agreement.
12. Except as expressly provided in this Agreement, nothing by way of this Agreement shall operate to confer rights or benefits on persons or entities not party to this Agreement.
13. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.
14. County and EID agree that the following approvals, permits and authorizations will be obtained by County and/or County's contractor prior to the commencement of the Project: the SWPPP, grading permits, a blasting plan and blasting permit where authorized by the Project specifications, and Dust Control Plan and Asbestos Mitigation Plan. Any other permits, approvals and authorizations necessary for the commencement of construction of the EID Sewer Line Installation Work shall be the responsibility of EID. After the issuance of the notice to proceed and commencement of work, if there are any necessary additional permits, approvals and authorizations that are necessary for the EID Sewer Line Installation Work, EID shall be responsible for obtaining said permits, approvals and authorizations in a timely fashion so as not to delay the work. If EID is unable to obtain said permit, approval, or authorization, or to do so will result in a delay in the either the EID Sewer Line Installation Work or the County's Project as a whole, then either (i) the County may issue a change order deleting the EID work in its entirety if it has not yet

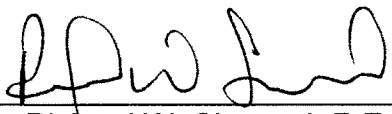
commenced, or (ii) if work has commenced on the EID work, EID shall be responsible for all costs and claims associated with the delay, inclusive of delay claims or extra work claims resulting to the County's Project as a result of the delay.

**Contract Administrator Concurrence:**

By:   
Russell A. Nygaard, P.E.  
Deputy Director of Engineering

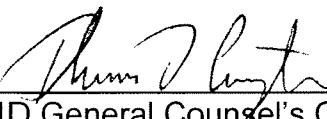
Dated: 8-22-2007

**Requesting Department Concurrence:**

By:   
Richard W. Shepard, P.E.  
Director of Transportation

Dated: 8/21/07

Reviewed & Approved on: 8/29/07 *as to form*  
Date

By:   
EID General Counsel's Office

**IN WITNESS WHEREOF**, the parties have executed this Agreement on the dates indicated below, the latest of which shall be deemed to be the effective date of this Agreement.

**- - COUNTY OF EL DORADO - -**

By: \_\_\_\_\_

Dated: \_\_\_\_\_

Board of Supervisors  
"County"

Attest:  
Cindy Keck  
Clerk of the Board of Supervisors

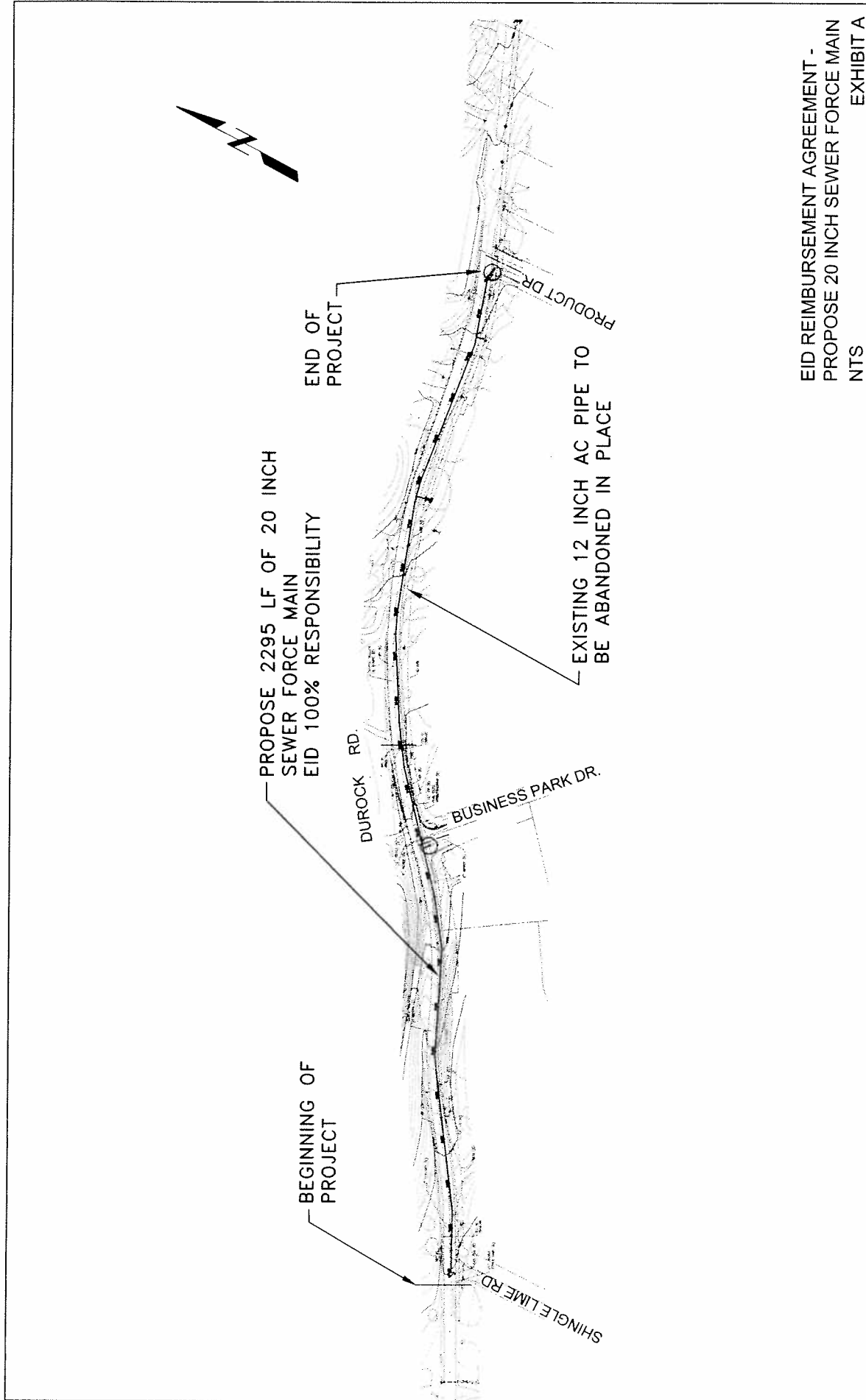
By: \_\_\_\_\_  
Deputy Clerk

Dated: \_\_\_\_\_

**- - EL DORADO IRRIGATION DISTRICT - -**

By:  \_\_\_\_\_  
Ane D. Deister, General Manager  
"EID"

Dated: 8/29/07



PREPARED UNDER THE SUPERVISION OF: REGISTERED CIVIL ENGINEER		CHECKED BY: DATE: 5/19/97	DRAWN BY: DATE:	SHEET 1 1 OF 1
PROJECT TITLE:		EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION		
PROJECT NUMBER:		MOTHERLODE FORCE MAIN SEWER REPLACEMENT PROJECT SHINGLE LIME ROAD TO PRODUCT DRIVE		
DATE:		EXHIBIT A		

NO.	DATE	DESCRIPTION	BY

EID REIMBURSEMENT AGREEMENT -  
 PROPOSE 20 INCH SEWER FORCE MAIN  
 NTS

**Exhibit B**  
**EID SOLE COST (SEWER LINE AND WATER LINE APPURTENANCES)**  
**Cost Estimate**

**MOTHERLODE FORCE MAIN SEWER REPLACEMENT PROJECT( SHINGLE LIME ROAD TO PRODUCT DR.)**  
**20-INCH FORCE MAIN**

Item No.	Description	Unit	Quantity	Unit Price	Total
A-1	Trench shields, shoring and bracing	LS	1	\$ 15,000	\$15,000
A-2	Furnish and Install 20-Inch Sewer Line (PVC Pipe), Class 165 (station 0.00 to station. 22+94.27) on Durrock Road as indicated on drawings.	LF	2,295	\$ 350	\$803,250
A-3	Connect existing 4-inch blow off to proposed 20-inch PVC pipe at station 21+19.25	EA	1	\$ 5,000	\$5,000
A-4	Tie-in to existing sewer force main at location point 1,2, and 3 as indicated on drawings, location 1 is on the on the detail sheet,location 2 is at station 0+00 and location 3 is at station 22+94.27	EA	3	\$ 10,000	\$30,000
A-5	Furnish and install erosion Control	LS	1	\$ 10,000	\$10,000
A-6	Saw cut pavement	LF	4,590	\$ 3	\$11,475
A-7	Cold Plane Asphalt	SF	14,820	\$ 5	\$77,805
A-8	Pavement replacement of existing lane including repaving and restriping from station 1060 to station 2295 and 4-inch AC replacement on t-cut section.	TON	303	\$ 128	\$38,729
A-9	Temporary trench	LF	2,295	\$ 36	\$82,620
A-10	Fill existing 12-inch pipe with slurry as indicated on plans.	LF	4,820	\$ 15	\$72,300
A-12	Install a 4-inch ARV (ARI D -020) at station 17+64.25 to propose 20-inch force main as indicated on drawing.	EA	1	\$ 10,000	\$10,000
A-13	Pot hole existing services.	EA	15	\$ 500	\$7,500
A-14	Suck off wastewater from existing 12 inch pipe from station 17+64.5 to 21+66 prior to slurry filling.	LS	1	\$ 20,000	\$20,000
A-15	Extra hard rock excavation on the pipe work at a depth not exceeding 5ft from that indicated on the drawing.	CY	500	\$ 100	\$50,000
A-16	Extra excavation for medium and soft excavation at a depth not exceeding 5 ft from that indicated on the drawing.	CY	500	\$ 80	\$40,000
A-17	Extra saw cut on existing AC in excess of 4-inches as indicated on geotechnical report.	LF	500	\$ 3	\$1,250
A-18	Replace existing 8-inch AC pipe with 8-inch PVC pipe class 150 on Business Park Dr at a depth not exceeding 12 inches below that indicated on drawing.	LF	87	\$ 250	\$21,750
A-19	Replace existing 12-inch AC pipe with 12-inch PVC pipe class 150 on Durrock Road at a depth of 12 inches below that indicated on drawing.	LF	376	\$ 300	\$112,800
	<b>EID Construction Cost Subtotal</b>				<b>\$1,409,479</b>
	Flagging Traffic	2.0%			\$28,190
	Traffic Control Systems	2.0%			\$28,190
	Water and Dust Pollution Control	1.0%			\$14,095
	Construction Management	13.0%			\$183,232
	Mobilization	8.0%			\$112,758
	Subtotal				\$1,775,943
	Contingency	10.0%			\$177,594
	<b>Total Direct Costs</b>				<b>\$1,953,538</b>
	<b>Total Cost</b>				<b>\$1,953,538</b>
	County Share	0.00%			\$0
	EID Share	100.00%			\$1,953,538
					<b>\$1,953,538</b>

Items A15 to A19 may only be exercise at the descretion of the District.  
 \* All lenth and cost are preliminary estimates as of 5/24/07

## Exhibit C

### COST ESTIMATE SUMMARY

<b>COUNTY COST SUMMARY</b>	<b>EXHIBIT B</b>	\$0.00
<b>*COUNTY COST TOTAL:</b>		<b>\$0.00</b>

<b>EID COST SUMMARY</b>	<b>EXHIBIT B</b>	\$1,953,538
<b>*EID COST TOTAL:</b>		<b>\$1,953,538</b>

<b>*TOTAL WATER AND SEWER JOB COSTS:</b>	<b>\$1,953,538</b>
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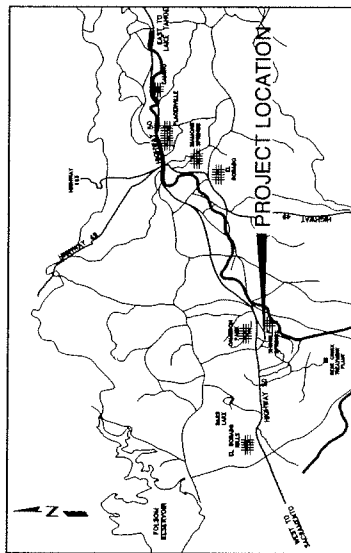
\* All costs are preliminary estimates as of 5/24/07

*Exhibit D*

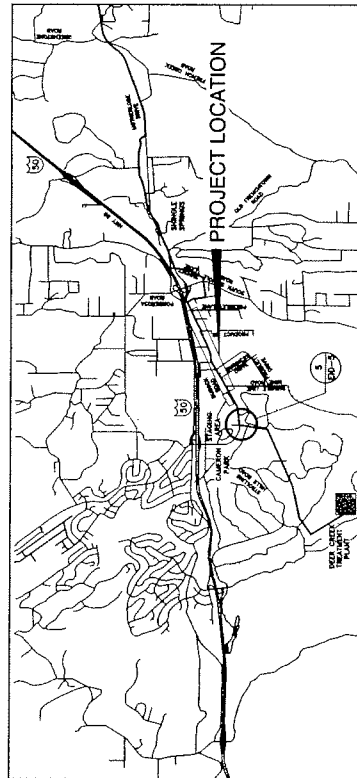
EL DORADO IRRIGATION DISTRICT  
CONTRACT DRAWINGS  
FOR

MOTHERLODE FORCE MAIN  
SEWER REPLACEMENT

FROM SHINGLE LIME MINE ROAD TO PRODUCT DRIVE  
PROJECT NO. 00004E  
WORK ORDER NO. 56240



VICINITY MAP



LOCATION MAP

**Board of Directors**

- George Osborne - District 1
- John Fraser - District 2
- Bill George - District 3
- George Wheelton - District 4
- Harry Norris - District 5

**District Manager**

Ane D. Delator

**District Engineer**

David Powell, P.E.

**Facilities Management Director**

Steve Setoodah, P.E.D., P.E.

**SHEET INDEX**

1. COVER SHEET
2. ABBREVIATIONS & SYMBOLS
3. PLAN AND PROFILE - STA. 0+00 TO 12+00
4. PLAN AND PROFILE - STA. 12+00 TO 22+84+
5. TYPICAL DETAILS
6. DETAILS

**APPROVED FOR CONSTRUCTION**

EL DORADO IRRIGATION DISTRICT  
CO-DIVISION MANAGER WASTEWATER/RECYCLED WATER

DATE	APRIL 2007	EID-1
WORK ORDER NO.	56240	OF
DRAWING NO.		19/24
COVER SHEET	MOTHERLODE FORCE MAIN	
	SEWER REPLACEMENT	
	FROM SHINGLE LIME MINE RD. TO PRODUCT DRIVE	
EL DORADO IRRIGATION DISTRICT		
2880 MOSQUITO ROAD - P.O. BOX 1047		
PLACERVILLE, CALIFORNIA 95687		
DRAWN BY: C. BECHELL		
CHECKED BY: A. ORUPE		
SCALE: NTS		
APPROVED BY:		
DATE:		

**LEGEND & SYMBOLS**

	PIPE CONTINUATION, END VIEW		DEMOLITION EXISTING
	CLEAN OUT		NEW
	POWER TELEPHONE		CONCRETE PAVEMENT
	SIGN		ASPHALT PAVEMENT
	PROPERTY LINE		DRAINAGE COURSE OR FLOW LINE
	MANHOLE		EXISTING GROUND CONTOUR
	CATCH BASIN		FINISH GRADE CONTOUR
	FENCE		STRUCTURAL CONTINUATION
	CONTOUR ELEVATION		CONCRETE
	POINT ELEVATION		GROUT
	SLOPE		ROAD BASE
	TREES OR SHRUBBERY		DRAIN GRAVEL OR GRANULAR MATERIAL
	USGS BENCHMARK		COARSE BASE ROCK
	TEST BORING LOCATION AND NO.		EARTH OR GRADE
	CURVE NUMBER		EARTH FILL
	CULVERT ENDS (IN & OUT)		
	FIRE HYDRANT		
	WATER VALVE BOX		
	MAILBOX		
	LIGHT		
	VALVE		
	THRUST BLOCK		
	AIR / VACUUM RELEASE VALVE		

**GENERAL NOTES:**

- ALL WORK SHALL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION AND TO THE SATISFACTION OF THE EL DORADO IRRIGATION DISTRICT (EID) AND D.O.T. ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND ACCOMPANYING SPECIFICATIONS AND SPECIAL PROVISIONS.
- LOCATION OF ALL UNDERGROUND FACILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL FACILITIES PRIOR TO ANY TRENCHING. THE CONTRACTOR SHALL REPAIR ALL UNDERGROUND FACILITIES DAMAGED BY THIS PROJECT. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) 48 HOURS PRIOR TO ANY EXCAVATION WORK FOR DETERMINATION AND LOCATION OF UNDERGROUND UTILITIES (PHONE: 1-800-442-2444).
- ALL FACILITIES SHALL BE BUILT TO THE DIMENSIONS AND ELEVATIONS SHOWN ON THESE PLANS. CONSTRUCTION EASEMENT STAKING WILL BE PROVIDED ONE TIME. REPLACEMENT STAKING SHALL BE AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL DESIGNATE A RESPONSIBLE PERSON WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT FOR THE CONTRACTOR ON THE JOB SITE DURING ALL WORKING HOURS.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING PARTIES BY THE TIME SPECIFIED PRIOR TO BEGINNING WORK:
  - EL DORADO IRRIGATION DISTRICT (INSPECTION)
  - 48 HOURS
  - EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION
  - 48 HOURS
- THE CONTRACTOR SHALL COMPLY WITH THE EL DORADO COUNTY ENCROACHMENT PERMIT.
- ALL TRENDS TO DISTRICT FACILITIES SHALL BE DONE BY A LICENSED CONTRACTOR IN ACCORDANCE WITH E.I.D. WATER, SEWER AND RECYCLED WATER DESIGNED AND CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL PROVIDE LICENSE VERIFICATION TO E.I.D. PRIOR TO THEIR.
- WHERE EXCAVATION EXCEEDS 5 FEET IN DEPTH THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE CALIFORNIA INDUSTRIAL RELATION DEPARTMENT. (PHONE: 916-460-6125)
- THE CONTRACTOR SHALL REPAIR OR REPLACE ALL PAVEMENT UTILITIES, TELEPHONE TOWNS, FENCES ETC. DAMAGED BY THE CONTRACTOR'S EQUIPMENT TO LIKE OR BETTER CONDITION AT NO ADDED COST TO THE DISTRICT.
- ALL FORCE MAIN SEWER LINES SHALL BE AWWA C900, DR 26, CLASS 166 PVC OR AS OTHERWISE SPECIFIED ON THESE PLANS.
- ALL FACILITIES SHALL REMAIN IN SERVICE DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY PIPING AND PUMPS AT ALL SITES.
- COORDINATE ALL ELECTRICAL RELOCATION, DEMOLITION, ETC. WITH DISTRICT PERSONNEL. MAKE SURE ALL CIRCUITS ARE LOCKED OUT AND LABELED.
- CONCRETE ENCASE NEW SEWER FORCE MAIN AT ALL STREAM & WATER PIPE CROSSINGS FOR 10 FEET LONG PIPE IN EACH DIRECTION.
- MIN COVER SHALL BE 5'.
- 1" MIN SPACING UNDER ALL EXISTING CULVERTS AND WATER PIPE CROSSINGS, UNLESS OTHERWISE SHOWN.
- ALL VERTICAL AND HORIZONTAL DEFLECTIONS TO BE INSTALLED USING DEFLECTION COLUMNS WITH MAXIMUM 2 DEGREES OF DEFLECTION PER FOOT.
- IN ADVANCE OF WORK, THE CONTRACTOR SHALL POT HOLE ALL UTILITY CROSSINGS AND VERIFY NEW VERTICAL SEWER FORCE MAIN ALIGNMENT.
- THRUST BLOCKS SHALL BE LOCATED AT POSITIONS OF VERTICAL AND HORIZONTAL DEFLECTION ANGLES.
- CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL AS REQUIRED BY D.O.T.
- REPAIR ROAD PER D.O.T. REQUIREMENTS.

DATE	APRIL 2007	EID-2
DATE	5/24/07	OR
DATE	5/24/07	20/24

ABBREVIATIONS & SYMBOLS  
 MOTHERLODE FORCE MAIN  
 SEWER REPLACEMENT  
 FROM SHRINGLE LIME MINE RD. TO PRODUCT DRIVE

EL DORADO IRRIGATION DISTRICT  
 2890 MOSQUITO ROAD - P.O. BOX 1047  
 PLACERVILLE, CALIFORNIA 95667

DESIGNED BY	C. BECHTEL
CHECKED BY	A. OKUPE
SCALE	NTS

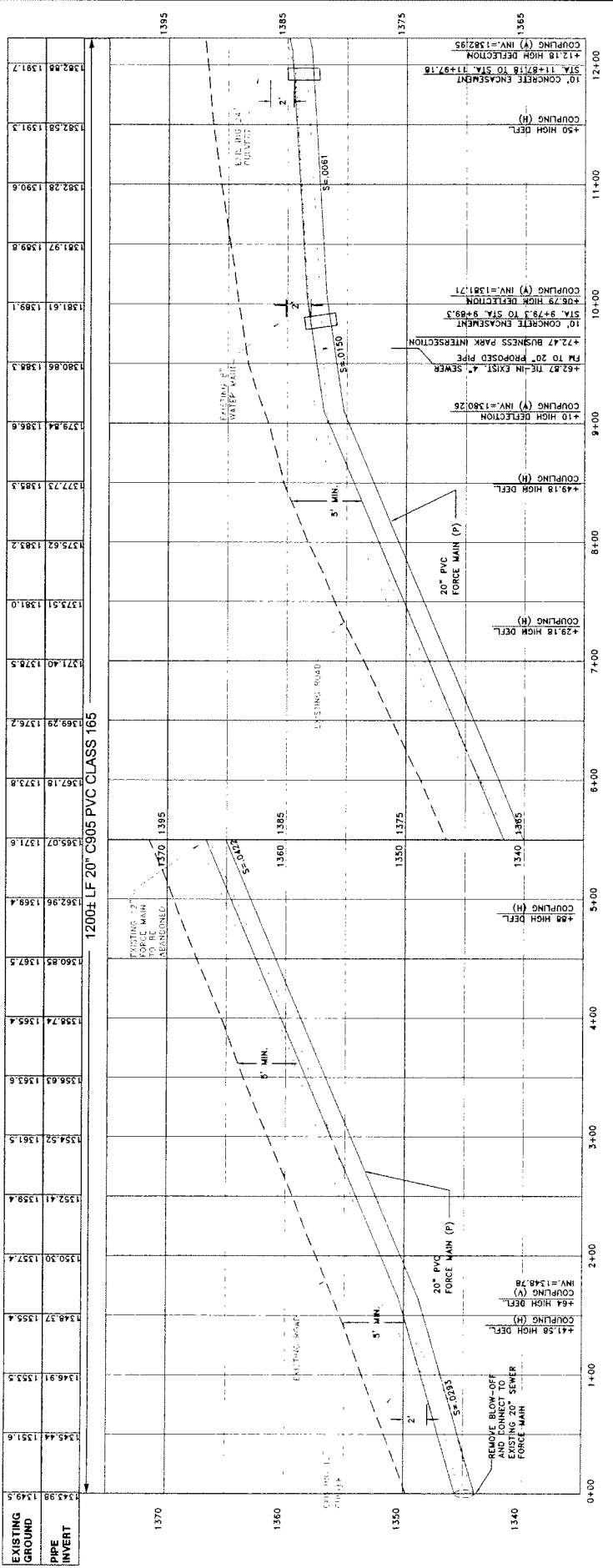
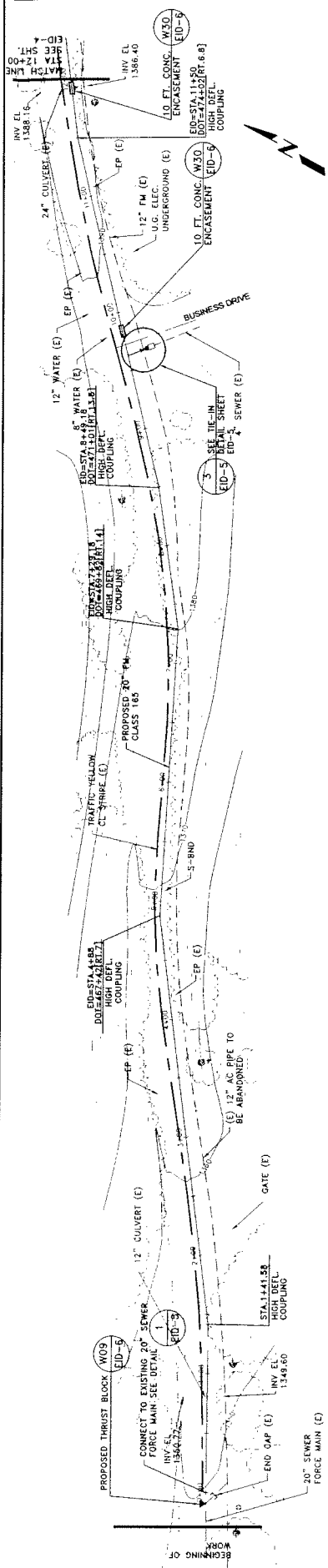
APPROVED BY	
DATE	

NO.	DATE	BY	APP'G



PLAN - 'DUROCK ROAD' LINE

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



NO.	DATE	BY	APPVED BY	REVISION

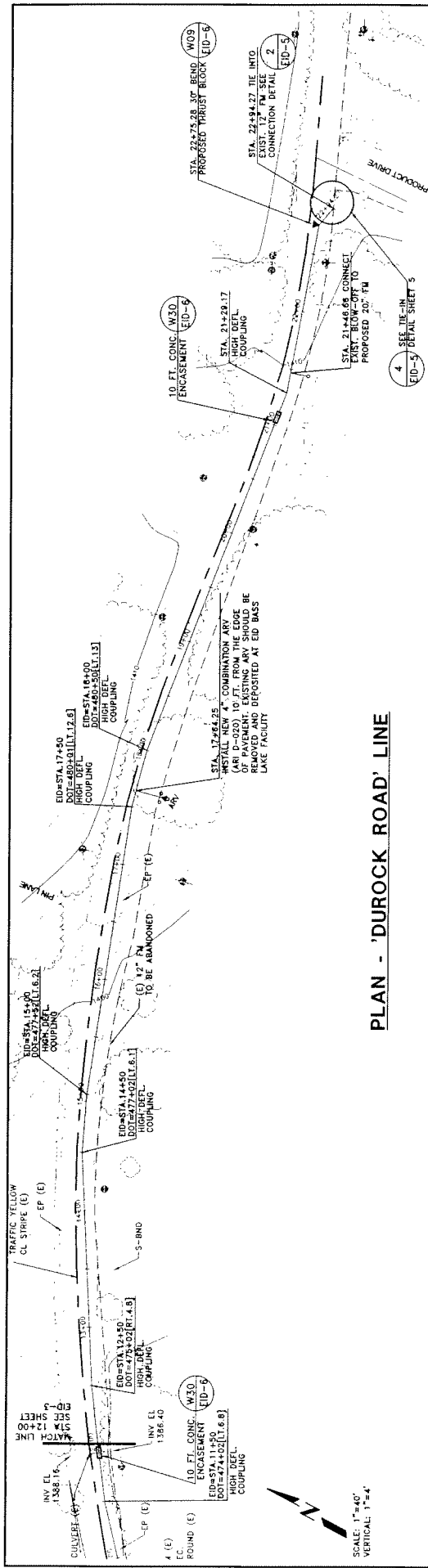
DESIGNED BY	C. BEHRELL
CHECKED BY	A. OKUPE
SCALE	1" = 40' H 1" = 4' V

PLAN AND PROFILE	APRIL 2007
MOTHERLODE FORCE MAIN	56240
SEWER REPLACEMENT	21/24
STA. 0+00 TO STA. 12+00	

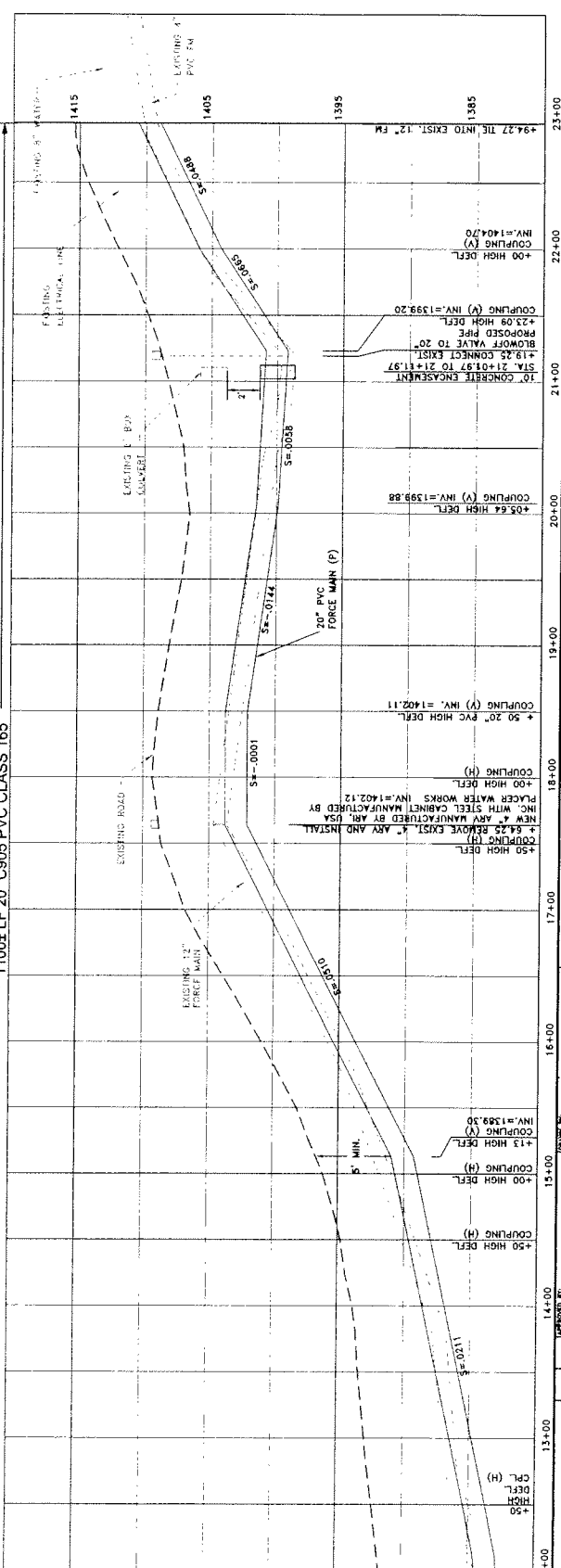
EL DORADO IRRIGATION DISTRICT	
2890 MOSQUITO ROAD - P.O. BOX 1047	
PLACERVILLE, CALIFORNIA 95867	



**PLAN - 'DUROCK ROAD' LINE**

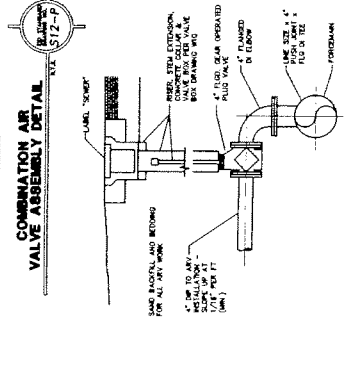
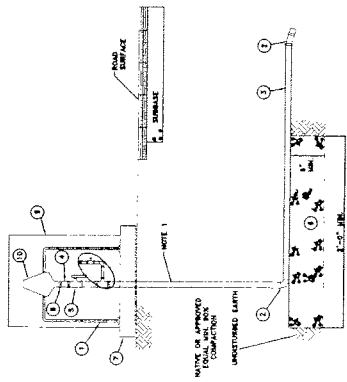
SCALE: 1"=40'  
VERTICAL: 1"=4'

STATION	EXISTING GROUND	PIPE INVERT
12+00	1322.86	1391.7
13+00	1383.75	1392.3
14+00	1384.81	1392.9
15+00	1385.86	1393.4
16+00	1386.92	1393.8
17+00	1387.97	1394.0
18+00	1389.02	1394.6
19+00	1390.07	1395.2
20+00	1391.12	1395.7
21+00	1392.17	1396.2
22+00	1393.22	1396.7
23+00	1394.27	1397.2



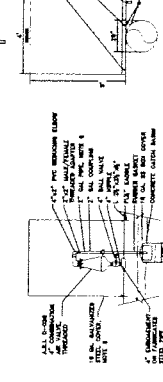
<b>EL DORADO IRRIGATION DISTRICT</b> 2890 MOSQUITO ROAD - P.O. BOX 1047 PLACERVILLE, CALIFORNIA 95667		<b>PLAN AND PROFILE</b> <b>MOTHERLODE FORCE MAIN</b> <b>SEWER REPLACEMENT</b> STA 12+00 TO 22+94.27	
DATE:	APRIL 2007	PROJECT NUMBER:	56240
DRAWN BY:	C. BECKETT	CHECKED BY:	A. OKUPE
SCALE:	1" = 40' H 1" = 4' V	DATE:	22/24

ITEM	DESCRIPTION
1	1/2" DIA. 12" PVC WYE BRANCH WITH 4" FITTING AS PER MATERIAL
2	2" DIA. 12" PVC WYE BRANCH WITH 4" FITTING AS PER MATERIAL
3	2" DIA. 12" PVC WYE BRANCH WITH 4" FITTING AS PER MATERIAL
4	2" DIA. 12" PVC WYE BRANCH WITH 4" FITTING AS PER MATERIAL
5	2" DIA. 12" PVC WYE BRANCH WITH 4" FITTING AS PER MATERIAL
6	2" DIA. 12" PVC WYE BRANCH WITH 4" FITTING AS PER MATERIAL
7	2" DIA. 12" PVC WYE BRANCH WITH 4" FITTING AS PER MATERIAL
8	2" DIA. 12" PVC WYE BRANCH WITH 4" FITTING AS PER MATERIAL
9	2" DIA. 12" PVC WYE BRANCH WITH 4" FITTING AS PER MATERIAL
10	2" DIA. 12" PVC WYE BRANCH WITH 4" FITTING AS PER MATERIAL



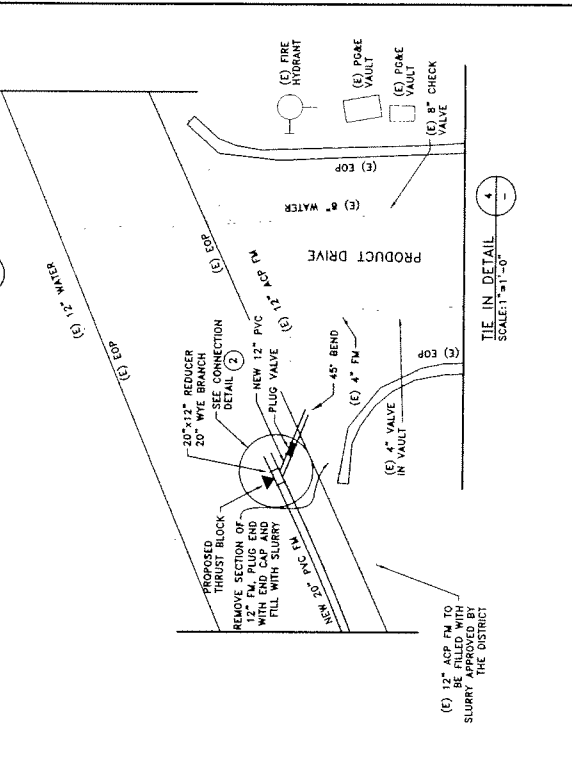
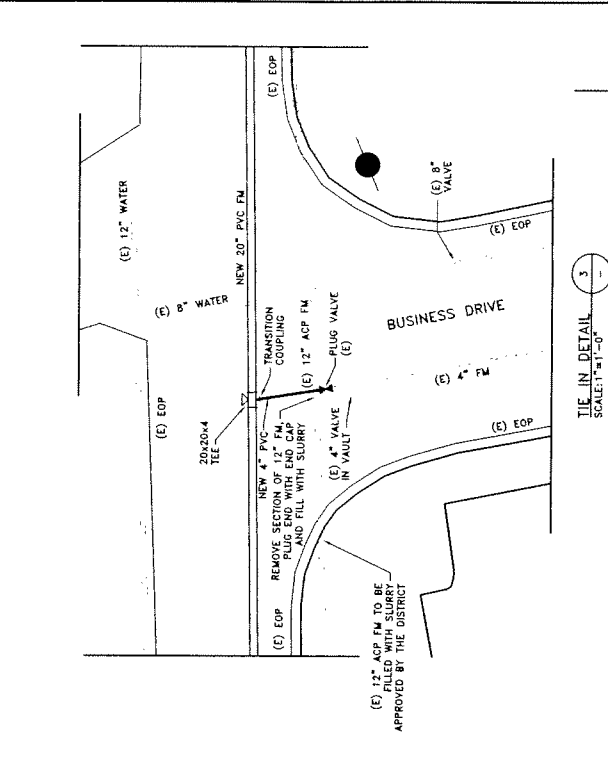
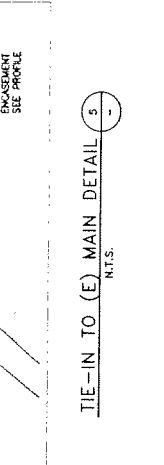
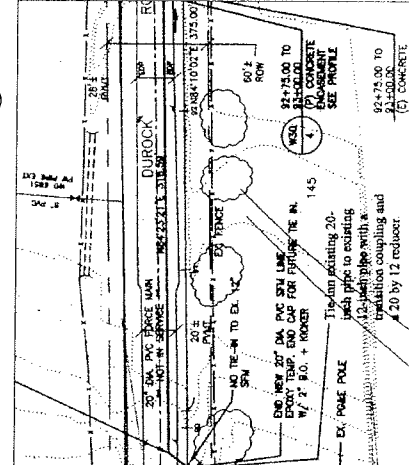
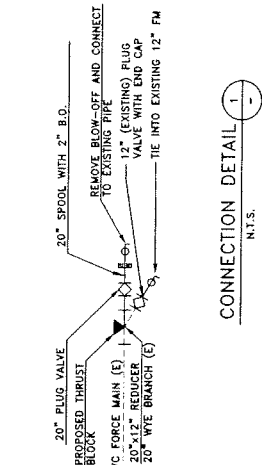
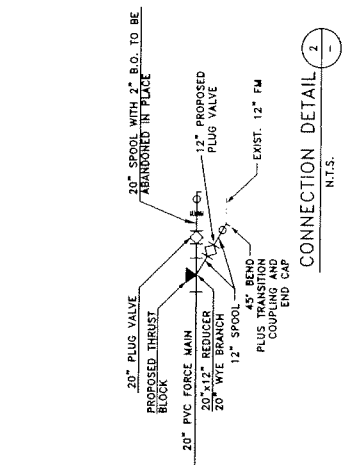
**NOTES**

- ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWERAGE AND WATER SUPPLY.
- THE VALVE SHALL BE INSTALLED WITH THE HANDLE UP AND THE VALVE CLOSED.
- THE VALVE SHALL BE TESTED AND FOUND TO BE LEAK-FREE BEFORE ACCEPTANCE.
- THE VALVE SHALL BE MAINTAINED IN GOOD WORKING ORDER AT ALL TIMES.



**NOTES**

- REMOVE SECTION OF 12" PVC FM AND FILL WITH SLURRY APPROVED BY THE DISTRICT.
- REMOVE SECTION OF 12" PVC FM AND FILL WITH SLURRY APPROVED BY THE DISTRICT.
- REMOVE SECTION OF 12" PVC FM AND FILL WITH SLURRY APPROVED BY THE DISTRICT.
- REMOVE SECTION OF 12" PVC FM AND FILL WITH SLURRY APPROVED BY THE DISTRICT.



NO.	DATE	BY	APP'D	REVISION

DESIGNED BY:	C. BECHTEL
CHECKED BY:	A. ORUPE
SCALE:	AS SHOWN

PROJECT NO.:	56240
DATE:	APRIL 2007
PROJECT NAME:	MOTHERLODE FORCE MAIN SEWER REPLACEMENT
SCALE:	1"=1'-0"

EID-5	23/24
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