

**COUNTY OF VENTURA  
PUBLIC WORKS AGENCY**

Date: September 28, 2015

To: All Prospective Bidders

From: Jeff Pratt  
Director of Public Works Agency

**Addendum No. 1**

Subject: **Project Name: Hueneme Road at Arnold Road Drainage Improvements**  
**Specification No. RD16-02**  
**Project No. 50494**  
**Bids to be opened: October 6, 2015 at 2:00 p.m. (NO CHANGE)**

Make the following modifications to the bidding documents for subject project:

1. Bid Proposal shall be replaced with the attached Bid Proposal.
2. Remove and Replace from the Special Provisions sections 1000, 1006, 1007, 1011, 1012, and 1018 with the attached revised sections.
3. Remove entirely from the Special Provisions sections 1008, 1013, and 1014.
4. Remove and Replace Plan Sheets 1, 2, 3, and 8 with the Attached Plan Sheets.

Acknowledgment of this addendum by inserting the addendum No. on page 7 of the Proposal is required. Failure to do so may result in the disqualification of your bid.

Approved: \_\_\_\_\_

  
Jeff Pratt, Director

9/28/15  
Date Approved

**PROPOSAL  
FOR**

**HUENEME ROAD AT ARNOLD ROAD  
DRAINAGE IMPROVEMENTS**

LOCATED IN  
VENTURA COUNTY, CALIFORNIA

MAKE BID GUARANTEE TO **COUNTY OF VENTURA**  
USE FORM PROVIDED (SEE PARAGRAPH 9, INSTRUCTION TO BIDDERS).

SPECIFICATION NO. **RD16-02** INCLUDING **8** SHEETS OF PLANS

BIDS WILL BE RECEIVED ON **OCTOBER 6<sup>TH</sup>, 2015 AT 2:00 P.M.**

AGENCY IS ALLOWED **60** DAYS TO AWARD A CONTRACT (SEE SECTION 2-1.1).

THE STARTING DATE OF CONTRACT WILL BE **28** CALENDAR DAYS AFTER AWARD OF CONTRACT  
(SEE SECTION 6-7.4).

COMPLETION TIME IS **45** WORKING DAYS (SEE SECTION 6-7).

LIQUIDATED DAMAGES ARE **\$800** PER CALENDAR DAY (SEE SECTION 6-9).

CONTRACTOR'S LICENSE CLASSIFICATION REQUIRED IS **CLASS A**.

LIABILITY INSURANCE CLASS REQUIRED PER SECTION 7-4 IS **L-C**.

FEDERAL-AID CONTRACT PROVISIONS ARE **NOT** INCLUDED IN THESE SPECIFICATIONS.

THE NUMBER OF PAGES IN THIS PROPOSAL IS **8**.

**BIDDER SHALL COMPLETE**

NAME: \_\_\_\_\_

MAILING ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

TELEPHONE NUMBER: (\_\_\_\_)\_\_\_\_-\_\_\_\_ FAX No. (\_\_\_\_)\_\_\_\_-\_\_\_\_

eMAIL ADDRESS: \_\_\_\_\_

**PROPOSAL**  
**Instruction to Bidders**

- 1. LICENSING OF BIDDER.** Before submitting bids, bidders shall be licensed in accordance with the provisions of Sections 7000 through 7145 of the Business and Professions Code of the State of California in the classification required for the work bid on. The bidder's license number, classification, and expiration date shall be inserted on **page 7** of the proposal form. The bidder's name shall correspond in all respects with the name shown on the license. License numbers and names are checked with the State.
- 2. SITE INSPECTION.** Personally visit the worksite before submitting your bid to ascertain the existence of any surface or subsurface conditions affecting the cost of the work.
- 3. MODIFICATION AND INTERPRETATION.** Carefully review the plans and specifications for any errors, omissions, or ambiguities. If you discover any, notify the Engineering Services Department of the Agency far enough in advance of the bid opening to allow time for the issuance of appropriate written addenda. Written addenda shall be the sole means for modifying the plans and/or specifications prior to the bid opening. The Agency shall not be bound by oral communications purportedly modifying or interpreting the plans and/or specifications regardless of when or by whom such oral communications are made and you should not rely upon such oral communications in preparing your bid.
- 4. BID ITEMS.** State in figures the unit prices, lump sum prices and extensions as indicated which shall be the prices for which you propose to supply all materials and services and perform all work required by the plans and specifications. All items described are to be construed as complete and in place. Include in the bid amount for items listed on the proposal form the cost of performing all work shown on the plans or required by the specifications for which a specific bid item is not provided. Bid on all items listed under Schedule of Work and Prices unless otherwise indicated in the proposal form.
- 5. SIGNING OF BID.** Fill in all indicated blanks in this proposal using typewriter or ink and sign with ink. Proposals signed by an agent other than an owner, partner or corporate officer shall be accompanied by a power-of-attorney. Proposal form must be dated.
- 6. NON-COLLUSION AFFIDAVIT.** The non-collusion affidavit required by Public Contract Code 7106 is included on **page 5** of this Proposal.
- 7. BID FORM NOT TO BE ALTERED.** Do not change the wording of this proposal. Any additions, deletions, conditions, limitations or provisions by the bidder will render the proposal irregular and may cause its rejection.
- 8. CORRECTING BID.** Explain over your signature any erasures or deletions of information entered by the bidder in this proposal. Modifications submitted separately from this form will not be accepted.

9. **BID GUARANTEE.** Each bid must be accompanied by a bid guarantee in the amount of not less than 10% of the amount bid and guaranteeing that the bidder will enter into a contract in accordance with the terms of the bidding documents if award is made to him. The bid guarantee shall be in one of the following forms: A bid bond written by an admitted surety insurer on the form included with the proposal form, a cashier's check drawn by a national bank, a check certified by a national bank or cash. An electronically transmitted copy (FAX) of the bid bond form included in the proposal form may be used, but the form must have the original signatures of the principal and surety. A FAX of the completed bond will not be accepted. Note: Performance and Payment Bonds are required from the bidder to whom a contract is awarded. See specifications Subsection 2-4 for contract bond requirements including limitations on the sureties that may issue the bonds.

10. **SUBMITTING BID.** Submit your bid on one copy only of this proposal form, with addenda acknowledged by inserting the addenda numbers on **page 7** of this proposal and with bid guarantee attached, in a sealed envelope addressed to:

Public Works Agency, County of Ventura, County Surveyor's Public Counter,  
3rd Floor - Hall of Administration, 800 South Victoria Avenue, Ventura, California 93009-1670.

For proper handling, mark envelope as "SEALED BID", and show the project title and the bidder's name and address,. Do not enclose other documents in the bid envelope.

**IMPORTANT:** Proposals received that are not signed will not be considered.

Late bids will not be opened or considered.

Bids must be on this form. Electronically transmitted bids, bid modifications or bid withdrawals will not be considered.

Notwithstanding anything stated, directed or indicated in the other bidding documents, the only items to be included with this proposal are:

1. This proposal form, signed and dated with addenda acknowledged.
2. The bid bond with original signatures of surety representative and contractor, or other bid guarantee as specified in 9 above.
3. Subcontractors and off-job fabricators list completed in accordance with Public Contract Code Section 4104.

11. **TIME OF BID CLOSURE.** The bid box will be closed promptly at the time specified on the first sheet of the proposal form. The person opening bids will not accept bids that are not in the bid box at closing time. Time can be obtained from <http://www.time.gov/timezone.cgi?Pacific/d/-8> (local standard time). Note that clocks in the building may not be set to the correct time and should not be relied upon.

12. **DELIVERY OF BID.** Bids delivered in person must be placed in the bid box near the Surveyor's Public Counter located at the head of the escalator on the third floor of the Ventura County Hall of Administration Building, 800 South Victoria Avenue, Ventura, California. The Hall of Administration is on the corner of Victoria Avenue and Telephone Road and is accessible from the Ventura Freeway (U.S. 101) by taking the Victoria Avenue off ramp and proceeding north on Victoria Avenue about one mile to Telephone Road. Access from the Santa Paula Freeway (Cal. 126) is by the Victoria Avenue off ramp, then south about 1/4 mile to Telephone Road. Access to the Hall of Administration parking lot is from Telephone Road at Lark St one block east of Victoria Ave. Bids must be placed in the bid box prior to the hour and date designated on Page 1 of this proposal.



**13. MAILED BIDS (Including Express Delivery).** Bids received in the County's Mail Room by 8 a.m. on the bid opening date will be considered to have been placed in the bid box on time, whether or not actually delivered to the bid box on time. U. S. Postal Service Special delivery, Registered and Certified mail may slow actual receipt of bids. Bidder is responsible for sending bid early enough to insure delivery to the County on time.

Mark bids, not placed directly in the bid box, in large letters on the outside of the delivery envelope "SEALED BID" and show the Spec No.

Electronically transmitted bids or modifications will not be considered.

**14. WITHDRAWAL OF PROPOSAL.** Proposals may be withdrawn by the bidder prior to the time stated for opening bids upon written request, signed by the bidder or his authorized agent and submitted in the same manner as a bid. To retrieve a bid from the bid box may take 10 or more minutes as it requires a written request to withdraw the bid, the positive identification of the person requesting the withdrawal, and the opening of the bid box.

**15. ERRORS.** Bidder will not be released on account of errors. Where a discrepancy occurs between unit prices and totals, the unit price shall govern in computing the total. If a unit price is omitted, it will be determined from the item total, if entered. If both the unit price and line total for any item are omitted, the bid will be considered non-responsive in accordance with Paragraph 4 above. If the total Bid Price is not equal to the sum of the Item Totals (as corrected) the Total Bid Price will be corrected. If no monetary symbol (\$ or ¢) is entered with a unit price, lump sum or extension, a dollar sign will be assumed to be the bidder's intent.

**16. SUBCONTRACTOR LICENSE NUMBERS.** License numbers for subcontractors must be provided at the time the bid is received.

**17 PUBLIC WORKS CONTRACTOR REGISTRATION PROGRAM.** No contractor or subcontractor may be listed on a bid proposal for a public works project (submitted on or after March 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)]

No contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

**18. LABOR COMPLIANCE MONITORING.** This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

The Prime Contractor shall post job site notices prescribed by regulation. (See 8 California Code Regulation section 16451(d) for notice that previously was required for projects monitored by the Compliance Monitoring Unit.

## PROPOSAL

I, the person whose signature is affixed to **page 7** of this proposal, submit this proposal to the **Board of Supervisors of the County of Ventura** and hereby declare:

1. That the bidder has read this proposal and has abided by and agrees to the conditions herein and has carefully examined the project plans and read the specifications and does hereby propose to furnish all materials and do all the work required to complete the work in accordance with the plans and specifications for the unit prices or lump sums named in the Schedule of Work and Prices.

2. That the addenda indicated on **page 7** of this proposal are acknowledged.

3. That the bidder, as Principal, acknowledges himself as being bound by the attached bond or other acceptable bid guarantee.

#### 4. NONCOLLUSION DECLARATION

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

Contractor's Name \_\_\_\_\_

## PROPOSAL

Contractor's Name \_\_\_\_\_

### **List of Subcontractors and Off-Job Fabricators**

Listing shall comply with the provisions of California Public Contract Code, Section 4104.

<b>Name of Subcontractor or Off-Job Fabricator</b>	<b>Contractor's License Number</b>	<b>Business Address</b>	<b>Items of Work</b>

If more space is needed, attach additional sheets.

Public Contract Code Section 4104 provides that bidders must list:

- (a)(1) The name, contractor's license number, and location of the place of business of each subcontractor who will perform work or labor or render service to the prime contractor in or about the construction of the work or improvement, or a subcontractor licensed by the State of California who, under subcontract to the prime contractor, specially fabricates and installs a portion of the work or improvement according to detailed drawings contained in the plans and specifications, in an amount in excess of one-half of one percent of the prime contractor's total bid or, in the case of bids or offers for the construction of streets or highways, including bridges, in excess of one-half of one percent of the prime contractor's total bid or ten thousand dollars (\$10,000), whichever is greater.

**NOTE: Contractor shall perform, with its own organization, contract work amounting to at least 50 percent of the Contract Price. See Specifications Section 2-3.2 for exceptions.**

## PROPOSAL

Schedule of work and prices for: **HUENEME ROAD AT ARNOLD ROAD**  
**DRAINAGE IMPROVEMENTS**

Item No.	Units	Approx Quantity	Item Description	Payment Reference	Unit-Prices (In Figures)	Item Total (In Figures)
1	LS	1	Mobilization	9-3.4.2		
2	LS	1	Traffic Control & Construction Signing	1003-7		
3	LS	1	Water Pollution Control	1004-3		
4	LS	1	Clearing & Grubbing	1006-2		
5	LF	45	Remove & Replace Chain Link Fence	1007-2		
6	LS	1	Work Site Safety	1010-2		
7	SF	1050	AC Removal & Replacement	1011-5		
8	LS	1	Install RCB & Appurtenant Work	1012-4		
9	EA	20	Flexible Delineators	1017-2		
10	LS	1	Pavement Delineation, Striping & Signing	1019-6		
11	LS	1	Release on Contract	9-4		\$1.00
			<b>Total Amount Bid</b>			

The following addenda are acknowledged:

(Bidder must fill in number and date of each addenda or may enter the word "None " if appropriate)

Call (805) 654-2068 to determine addenda that have been issued.

Number	Dated

I make the above proposal and certify or declare under penalty of perjury under the laws of the State of California that the statements made on Page 5 of this Proposal, and below my signature, are true and correct.

Dated \_\_\_\_\_

Signature \_\_\_\_\_

At \_\_\_\_\_  
(City and State)

Position \_\_\_\_\_  
(Sole Owner, Partner, President, etc.)

License No. \_\_\_\_\_

Company Name \_\_\_\_\_

License Classification \_\_\_\_\_

Type of Organization \_\_\_\_\_  
(Individual, Partnership, Corp.)

License Expiration Date \_\_\_\_\_

Enter            }  
Name &         }  
Address        }  
of Bonding     }  
Company        }

### BID BOND

KNOW ALL MEN BY THESE PRESENTS: That we \_\_\_\_\_

\_\_\_\_\_, Principal,

and \_\_\_\_\_

\_\_\_\_\_, Surety, are held and firmly bound unto **COUNTY OF VENTURA** Obligee, in the sum of Ten Percent of the total amount of the Bid for the payment of which we bind ourselves, our legal representatives, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Principal has submitted or is about to submit a proposal to Obligee on a contract for

### HUENEME ROAD AT ARNOLD ROAD DRAINAGE IMPROVEMENTS

NOW, THEREFORE, if that contract be awarded to Principal and Principal shall, within such time as may be specified, enter into the contract in the prescribed form in writing and give such bond or bonds as may be specified in the bidding or contract documents with surety acceptable to Obligee then this obligation shall be null and void; otherwise to remain in full force and effect.

In the event suit is brought upon this bond by the Obligee and judgment is recovered, the Surety shall pay all costs incurred by the Obligee in the suit, including reasonable attorney's fee to be fixed by the court.

Signed, sealed and dated

\_\_\_\_\_  
(Principal)

by \_\_\_\_\_ (Seal)  
)

\_\_\_\_\_  
(Surety)

by \_\_\_\_\_  
Attorney-in-Fact

INDICATE COMPLETE ADDRESS OF SURETY TO WHICH  
CORRESPONDENCE CONCERNING THIS BOND SHOULD BE  
DIRECTED.

Telephone No. \_\_\_\_\_

Form PW-B-1

## **1000 GENERAL REQUIREMENTS**

### **1000-1 DESCRIPTION OF WORK**

Work under this contract consists of Public Access and Notice, Mobilization, Traffic Control and Construction Signing, Water Pollution Control, Clearing and Grubbing, Removal and Replacement of Chain Link Fence, Work Site Safety, AC Removal and Replacement, Install RCB and Appurtenant Work, Installing Flexible Delineators, Pavement Delineation, Striping and Signing, and appurtenant work.

All work shall be performed in accordance with the Plans, the Standard Specifications and these Special Provisions.

### **1000-2 REFERENCE SPECIFICATIONS AND STANDARD PLANS**

#### **1000-2.1 SPECIFICATIONS**

The Standard Specifications for this project are the Ventura County Standard Specifications (77 pages with VCSS typed at the bottom) supplemented by the Standard Specifications for Public Works Construction (SSPWC, commonly known as the Green book), 2015 Edition, published by BNI Publications, Inc.

Where used herein, SSS shall mean the State Standard Specifications, being the State of California, Department of Transportation Standard Specifications, 2010 Edition. Where required by the Special Provisions, work shall conform to the requirements of said SSS except that where reference is made in the SSS to other sections thereof which are not specifically referred to in these Special Provisions, such reference shall be deemed to be reference to the applicable sections of the VCSS (herein referred to as Standard Specifications), and all references to "State" shall mean County of Ventura.

#### **1000-2.2 STANDARD PLANS**

The contract drawings utilize and make reference to the State Standard Plans (SSP), which is that document published by the State of California, Department of Transportation, dated 2010, and the Standard Plans for Public Works Construction (SPPWC) published by BNI Publications Inc. 2012 Edition.

#### **1000-2.3 MODIFICATIONS TO STANDARD SPECIFICATIONS**

Section 6-1.2 is amended to include the following:

A preconstruction meeting will be scheduled by the Agency prior to the beginning of contract time. The meeting will be held at the Administration Building of the County of Ventura Government Center on a date and time established by the Engineer. Attendance at the preconstruction meeting by the Contractor's Representative as described in 7-6 of the Standard Specifications is mandatory prior to starting work. Subcontractors' representatives as required by the Engineer shall also attend the preconstruction meeting.

Section 2-9.1 shall only apply to Ventura County Standard Monuments (centerline well monuments). All other survey monuments, including nails, iron pipes, and any other objects in the public right-of-way referenced on recorded maps and Ventura County Field Notes will be replaced or reestablished by the Agency following construction.

#### 1000-3 PERMITS

In accordance with Section 7-5, the Contractor shall obtain and keep in force during the term of this contract all necessary permits required by the County of Ventura or any other permits necessary to perform the work.

#### 1000-4 REQUIRED DOCUMENTS FOR WORK AREAS

The Contractor shall submit to the Engineer, for review and approval, the following documents at least five working days prior to beginning work in any specified area indicated on the vicinity maps shown on the Plans.

- A. Order of Work and acknowledgement/questions ensuring understanding of the proposed 3-phase Traffic Control Plan. This submittal shall include the proposed text for changeable message signs and timing of advance notice.
- B. As-Built Plan of existing striping and marking. The plan shall be prepared by the Contractor.
- C. Plans documenting ties to the existing location of any facility including survey monuments, manholes, valves, clean-outs, signs, roadside markers, and guardrails.
- D. Certificate of Compliance for new and used Type K temporary railing not cast at the job site (to be used with Traffic Control)
- E. A map or written description of material haul routes.
- F. Copies of any required encroachment permits (if applicable).
- G. Underground Service Alert confirmation number(s).
- H. Name and phone number of person(s) responsible for 24-hour maintenance of construction signing and traffic control.
- I. Name and phone number of person(s) authorized to sign contract change orders.
- J. Submittal of the proposed fence to be used, PCC mix designs, striping



material, AC mix design.

- K. Contractor shall furnish to the Engineer a cost breakdown for lump sum contract item *RCB & Appurtenant Work* prior to receiving Notice to Proceed.

**1000-5 TEMPORARY CONSTRUCTION EASEMENT**

The County has obtained a Temporary Construction Easement. The Temporary Construction Easement area is to be used solely for foot access to the project site and shall not be used for equipment storage. Contractor shall not ingress the TCE with vehicles nor use as a staging area for equipment unless otherwise directed by the Engineer. The contractor shall at no time block any entrance nor inconvenience the property owner from performing their routine or desired tasks. The contractor will be handed a copy of the TCE at the preconstruction meeting.

**1000-6 MEASUREMENT AND PAYMENT**

Payment for complying with these General Requirements Special Provisions shall be considered included in the prices paid for other items of work and no additional compensation will be made.

**1006 CLEARING & GRUBBING**

**1006-1 SCOPE**

This item shall consist of removal and proper disposal of, brush, tree roots, debris, existing vegetation, base material, and spoil materials to an approved disposal site as shown on the Plans and in accordance with 300-1 of the Standard Specifications and these Special Provisions.

The temporary construction easement area(s) shall be returned to original state upon completion of construction. This work shall be considered included in this item.

**1006-2 MEASUREMENT AND PAYMENT**

Payment for Clearing and Grubbing will be made at the contract lump sum price. Such payment shall be considered full compensation for furnishing all materials, labor, equipment, disposal and removal of brush, tree roots, debris, existing vegetation, base material, and spoil materials to an approved disposal site, returning the specified TCE to original state or better, and all incidentals necessary to complete the work in accordance with the Standard Specifications and these Special Provisions.

**1007 REMOVE & REPLACE CHAIN LINK FENCE**

**1007-1 SCOPE**

Work under this section shall include removal and replacement of approximately 45 LF of chain link fence. The existing fence to be removed consists of a man made wood pallet fence held together with wire, along with miscellaneous metal post with attached concrete footings. The new chain link fence shall match the height of the adjacent chain link fence to be tied into as shown on the Plans and in accordance with A85 of the SSP. The fence must be replaced the same day the existing fence is removed. If the contractor cannot install the new fence on the same day, the contractor shall install a temporary fence until the permanent is installed. The fence must be approved by the Engineer prior to installation.

**1007-2 MEASUREMENT AND PAYMENT**

Payment for Removing and Replacing Chain Link Fence will be made at the contract unit price per Lineal Foot. The payment per lineal foot shall be considered full compensation for all labor, materials, removal of wood pallets (currently used as fence with wire ties), existing fence footings and posts, miscellaneous concrete from old fence and equipment required to remove and replace the chain link fence as shown on the Plans, as specified in the Standard Specifications and these Special Provisions.

**1011 AC REMOVAL & REPLACEMENT**

**1011-1 SCOPE**

This work shall include saw cutting, removal, proper disposal and replacement of variable depth Asphalt Concrete pavement over 95% compacted fill, AC slot paving and removal of miscellaneous AC. The paving depth will range from 1" to 14" as shown on the plans. The existing AC pavement shall be saw cut to a neat line, to the limits marked in the field and thickness as shown on these Plans or as directed by the Engineer in the field.

**1011-2 ASPHALT CONCRETE PAVING**

Preparation of areas and placing materials shall be in accordance with 300-4 of the SSPWC and the Special Provisions. Each layer of earth fill shall be

compacted to at least 95%. Construction of 14" thick AC pavement at the locations shown on the Plans shall be C2-PG64-10 in accordance with SSPWC 203-6 and these Special Provisions. Blade grading of AC pavement shall not be allowed.

#### **1011-4 DISPOSAL SITE**

All material designated for Removal and Disposal shall be lawfully disposed of at a site in accordance with local ordinances and all applicable law.

#### **1011-5 MEASUREMENT AND PAYMENT**

Payment for AC Removal and Replacement will be measured by the square foot. Payment will be made at the contract unit price on the basis of actual measured quantities completed in accordance with these Special Provisions. Such payment shall be considered full compensation for furnishing all labor, materials, proper disposal of miscellaneous AC, AC slot paving, disposal of specified AC, tools, equipment, and all incidentals required to complete the work.

### **1012 INSTALL RCB & APPURTENANT WORK**

#### **1012-1 SCOPE**

This work consists of the removal, disposal and construction of PCC structures. RCB and Appurtenant Work shall include but is not limited to, the construction of a 8'x2' reinforced concrete box per Caltrans Standard Plan D81, Construction of a variable width reinforced concrete box per Caltrans Standard Plan D81, construction of concrete headwalls/wingwalls per Caltrans Standard Plan D86B, construction of a concrete cut off wall per Caltrans Standard Plans D84, construction of a parapet per Caltrans Standard Plan D82, joining existing headwall/parapet, construction of a bulkhead between culverts, construction of a 6" apron 14" deep per Caltrans Standard Plan D84, cutting existing headwall to match existing finished grade, subgrade preparation, regrading existing ditch  $\pm 50$  LF to maintain positive flow, aggregate base, forming, pouring, proper disposal of miscellaneous PCC and other miscellaneous concrete work as directed by the Engineer.

The work shall be performed in accordance with SPPWC (Standard Plans), SSPWC (Standard Specifications), except as modified herein, and the Plans and these Special Provisions.

## 1012-2 COST BREAKDOWN

The Contractor shall furnish to the Engineer a cost breakdown for Install RCB & Appurtenant Work as described in this section.

The Contractor shall determine the quantities required to complete the work as shown on the Plans and described under this section. The quantities and values shall be included in the cost breakdown submitted to the Engineer for approval. The Contractor shall be responsible for the accuracy of the quantities and values used in the cost breakdown submitted for approval.

No adjustment in compensation will be made in the Contract Lump Sum Prices paid for the various PCC items of work due to any differences between the quantities shown in the cost breakdown furnished by the Contractor and the quantities required to complete the work as shown on the Plans and as specified in these Special Provisions.

The sum of the amounts for the units of work listed in the cost breakdown for Install RCB & Appurtenant Work shall be equal to the Contract Lump Sum Price for the work. Overhead, profit, bond premium, temporary construction facilities, subgrade preparation, aggregate base, forming, pouring, proper disposal of miscellaneous PCC and other miscellaneous concrete work and other items shall be included in each individual unit listed in the cost breakdown. Cost for items which already have a contract item shall not be included.

The cost breakdown shall be submitted to the Engineer for approval prior to the Agency issuing the Notice to Proceed. The cost breakdown shall be approved, in writing, by the Engineer before any partial payment for the items for Install RCB and Appurtenant Work will be made.

At the Engineer's discretion the approved cost breakdown may be used to determine partial payments during the progress of the work and as the basis of calculating the adjustment in compensation for the item or items of Concrete Work due to changes that might be ordered by the Engineer. When an ordered change increases or decreases the quantities of an approved cost breakdown, the adjustment in compensation may be determined at the Engineer's discretion in the same manner specified for increases and decreases in the quantity of a contract item of work in accordance with Section 4-1.03B, "Increased or Decreased Quantities," of the 2006 SSS.

The cost breakdown shall, as a minimum, include the following items:

- Construction of a 8'x2' reinforced concrete box per Caltrans Standard Plan D81
- Construction of a variable width reinforced concrete box per Caltrans Standard Plan D81
- Construction of concrete headwalls/wing walls per Caltrans Standard Plan D86B
- Construction of a concrete cut off wall per Caltrans Standard Plans D84
- Construction of a parapet per Caltrans Standard Plan D82  
Joining existing headwall/parapet
- Construct 6" concrete apron 14" deep per Caltrans D84
- Construction of a 12" concrete bulkhead between culverts
- Cutting existing headwall to match existing finished grade
- Regrading existing ditch ±50 LF to maintain positive flow

#### 1012-3 MATERIALS

All concrete for the RCB, headwalls and wing walls and aprons shall be Class 560-C-3250 and shall conform to Section 201 of the SSPWC. All other PCC shall be Class 520-C-2500 and shall conform to section 201 of the SSPWC. Curing compound shall comply with Subsection 201-4.1, Type 1.

The County has calculated approximately 80 CY of concrete to be placed as part of this item. However, the 80 CY is informational only and shall not be basis for a change in the lump sum payment for this contract item.

#### 1012-4 REINFORCEMENT

Steel reinforcement for concrete shall be installed where shown on the Plans and as referenced in the SSP. Materials shall comply with Section 201-2 of the SSPWC.

#### 1012-5 MEASUREMENT AND PAYMENT

Payment for RCB & Appurtenant Work shall be made at the contract lump sum price, and shall include full compensation for furnishing all labor, materials, rebar, PCC, tools, equipment, transportation and all other incidentals for doing all the work involved in to the construction of a 8'x2' reinforced concrete box per Caltrans Standard Plan D81, Construction of a variable width reinforced concrete per Caltrans Standard Plan D81, construction of concrete headwalls/wingwalls per Caltrans Standard Plan D86B, construction of a concrete cut off wall per Caltrans Standard Plans D84, construction of a parapet per Caltrans Standard Plan D82, joining existing headwall/parapet, construction of a bulkhead between culverts, construction of a 6" apron 14"

deep per Caltrans Standard Plan D84, cutting existing headwall to match existing finished grade, subgrade preparation, regrading existing ditch  $\pm 50$  LF to maintain positive flow, aggregate base, forming, pouring, finishing, proper disposal of miscellaneous PCC and other miscellaneous concrete work and all incidentals necessary to complete the work as shown on the plans and as described above.

## **1018 PAVEMENT DELINEATION, STRIPING & SIGNING**

### **1018-1 SCOPE**

Pavement Delineation, Striping and Signing shall consist of removing existing striping and markings, providing temporary striping, installing thermoplastic striping and markings, pavement markers, installing 2 type L-1 object markers per Caltrans Standard Plan A73A at location shown on plans, signs and posts as shown on the Plans. The Contractor shall tie down existing pavement striping and markings prior to starting any work. The new surface shall be delineated in the manner, which existed prior to the construction including resurfacing, modified as shown on the Plans, as specified in these Special Provisions, or as directed by the Engineer. Pavement markings shall be of the same color, size, pattern and location as previously existed except as shown on the Plans or herein modified.

On roads to be delineated, prior to removing traffic control, temporary markings shall be placed. Permanent Pavement Delineation on each road to be delineated shall be completed within 14 calendar days following completion of the work on that road unless otherwise specified in these Special Provisions. In the event that striping cannot be completed within the specified number of days, the Engineer may order construction operations suspended in accordance with 6-2 to allow striping work to meet schedules specified in these Special Provisions. Centerline striping shall be completed within 10 calendar days after construction concludes. Pavement markers, edge line striping and markings shall be completed within 7 calendar days after completion of work.

All sign posts shall be 2" x 2" Quick Punch steel posts (12-gauge galvanized square steel tubing) with knock out holes and breakaway pin in accordance with County Road Standard Plate F-4.

### **1018-2 EXISTING STOP SIGN TO BE RELOCATED**

The existing STOP sign should be relocated per CAMUTCD standard or at a location directed in the field by the Engineer.

### **1018-3 TEMPORARY MARKINGS**

STOP bars: Stop bars, whether temporary or permanent, shall be replaced on

the same day that they are disturbed, prior to the road being re-opened to traffic. Temporary Stop Bars shall be 12 inches wide.

Temporary Markings shall be placed at the centerline of pavement and on multi-lane roads at each lane line the same day that the striping is disturbed as directed by the Engineer. Temporary centerline markings shall consist of temporary raised pavement markers (Davidson Plastics Co., M. V. Plastics, or approved equal) at 25-foot maximum intervals. Temporary lane line markings shall be reflective tape or painted spots (cat-tracking) at 50-foot maximum intervals or a painted dribble line. Temporary Markings shall be maintained, replaced, restored or augmented as directed by the Engineer until permanent pavement delineation is completed. When the Engineer determines Temporary Markings as specified herein do not provide adequate temporary delineation, the Contractor shall install Temporary Markings as specified for permanent delineation. All Temporary Markings shall be removed prior to the installation of permanent markings and striping.

#### 1018-4 PAVEMENT MARKERS

Pavement Markers shall be placed in accordance with SSS Section 85, SSP A20A through A20D and these Special Provisions. Markers shall be placed in the same pattern and locations as previously existed or modified as shown on the Plans and these Special Provisions. Pavement markers shall include placement of blue fire hydrant markers. Pavement markers shall not be recessed. The Contractor shall replace any damaged Pavement Markers, without cost to the Agency, prior to the Agency's acceptance of the project.

#### 1018-5 THERMOPLASTIC TRAFFIC STRIPING AND PAVEMENT MARKINGS

Thermoplastic Traffic Striping and Pavement Markings shall be 90 mils in thickness and shall conform to the provisions of 84-2 of the SSS, SSP, and these Special Provisions. Striping and markings shall be reapplied in the original pattern on all roads, except as shown on the Plans and as specified herein. The size, color, and spacing of the striping shall conform to the requirements of Section 310 of the Standard Specifications and the State Standard Specifications, State of California, Department of Transportation Standard Plans as shown on SSP A20A, A20B, A20C, A20D, A24A, A24C, A24D, and A24E.

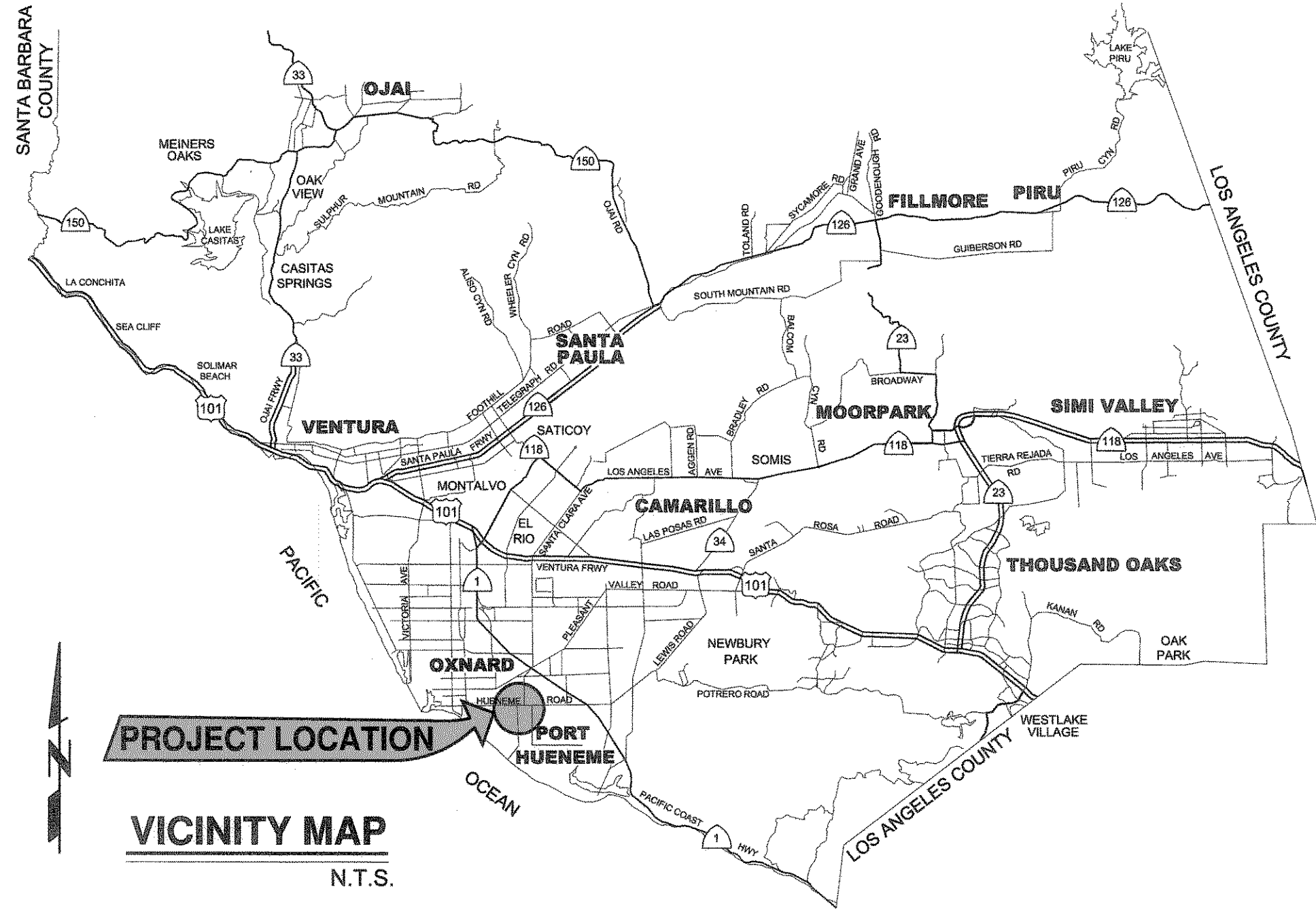
#### 1018-6 MEASUREMENT AND PAYMENT

Payment for Pavement Delineation, Striping and Signing will be made at the contract lump sum price. Such payment shall be considered full compensation for furnishing all labor, materials, tools, equipment, removing existing striping and markings, providing temporary striping, installing thermoplastic striping and markings, pavement markers, installing 2 type L-1 object markers per Caltrans

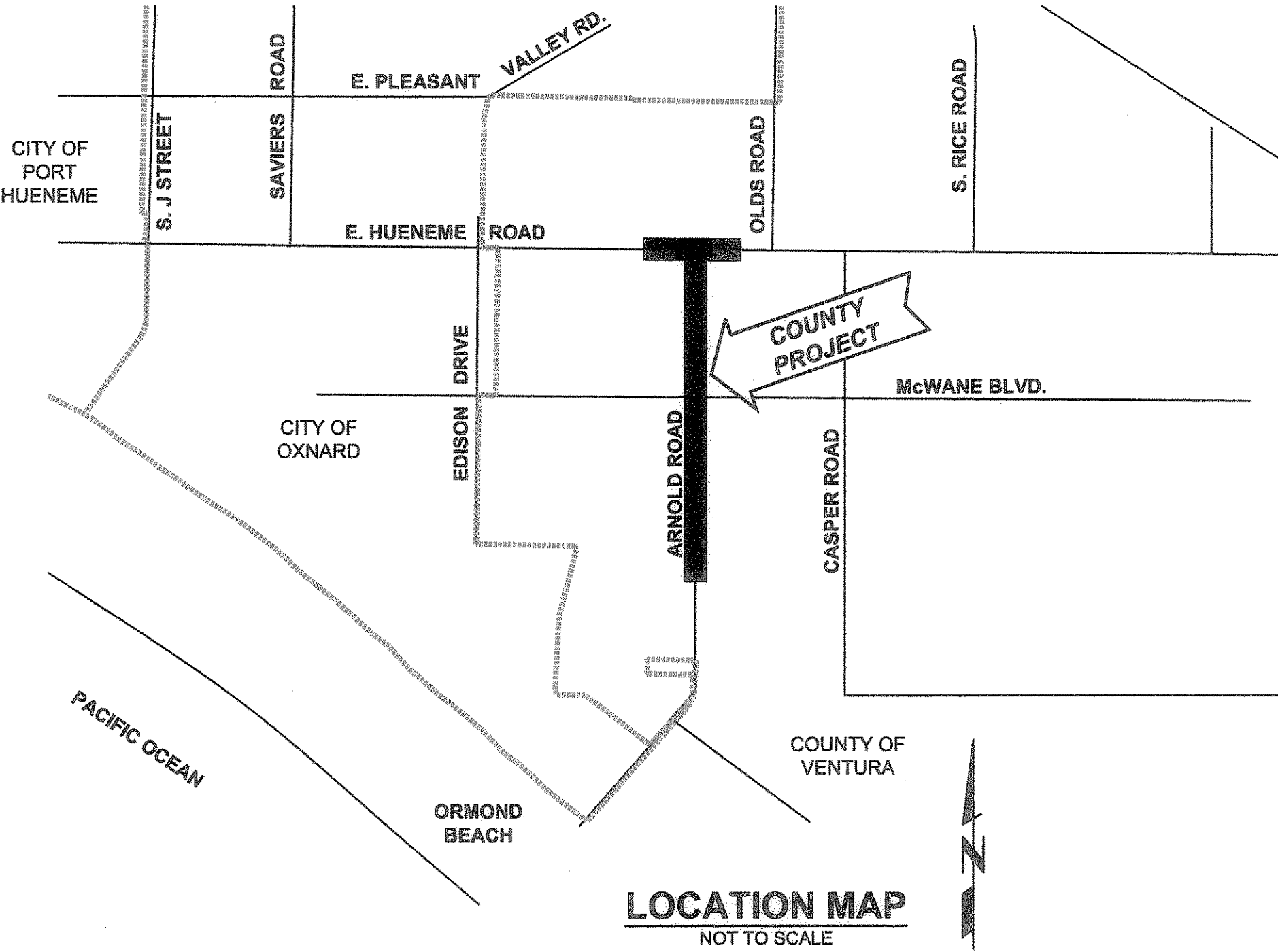


Spec. No. RD16-02  
Project No. 50494

Standard Plan A73A at location shown on plans, signs and posts as shown on the Plans and incidentals necessary to complete the work.




COUNTY OF VENTURA  
PUBLIC WORKS AGENCY  
**HUENEME ROAD AT ARNOLD ROAD**  
DRAINAGE IMPROVEMENTS  
SPECIFICATION NO. RD16-02  
PROJECT NO. 50494



**SHEET INDEX**

SHT NO.	DESCRIPTION
1	TITLE SHEET
2	CULVERT PLAN AND PROFILE
3	DETAIL SHEET
4	TRAFFIC CONTROL PLAN
5	TRAFFIC CONTROL PLAN
6	STRIPING PLAN
7	CMWD PLAN AND PROFILE - EXISTING 54" HDPE BRINE LINE FLOOD
8	SAFETY DELINEATOR LOCATION PLAN

**APPLICABLE STANDARD PLANS REFERENCE  
HEREIN BUT NOT INCLUDED**

SSP NO.	CALTRANS STANDARD PLANS DESCRIPTION
D81	CAST-IN-PLACE REINFORCED CONCRETE DOUBLE BOX CULVERT
D82	SINGLE BOX CULVERT CAST-IN-PLACE REINFORCED CONCRETE BOX CULVERT MISCELLANEOUS DETAILS
D84	BOX CULVERT WINGWALLS TYPES A, B AND C
D86B	PIPE CULVERT HEADWALLS, ENDWALLS, AND WARPED WINGWALLS
A73A 	OBJECT MARKERS

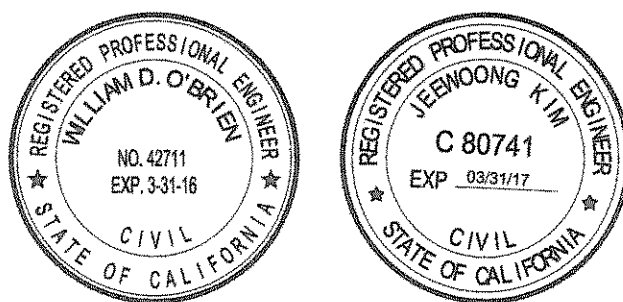
**GENERAL NOTES**

- PROJECT CONSTRUCTION SHALL CONFORM TO THE APPLICABLE LATEST EDITION OF VENTURA COUNTY STANDARD SPECIFICATIONS (VCSS), SSPWC, SPPWC, CAMUTCD, CALTRANS STANDARD PLANS, AND OTHER STANDARDS INDICATED ON THE DRAWINGS.
- THE PROJECT REQUIRES THE FOLLOWING GENERAL ITEM OF TASKS:
  - WATER CONTROL, DUST CONTROL.
  - TRAFFIC CONTROL.
  - CLEARING AND GRUBBING.
  - INSTALLATION OF ASPHALT, BASE, CULVERTS, WINGWALLS, HEADWALLS.
- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL HAVE THE SOLE RESPONSIBILITY FOR THE SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING THE SAFETY FOR ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUALLY THROUGHOUT THE DURATION OF THE PROJECT AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL HOLD HARMLESS, INDEMNIFY AND DEFEND THE COUNTY OF VENTURA, THE ENGINEER AND HIS CONSULTANTS, AND EACH OF THEIR OFFICERS, EMPLOYEES AND AGENTS.
- THE CONTRACTOR SHALL INDEPENDENTLY REVIEW GROUND, TOPOGRAPHY AND ALL SURFACE/SUB-SURFACE FEATURES THROUGHOUT THE SITE, AND ASSUME WHOLLY AND UNCONDITIONALLY, THE RISK OF COMPLETING THE WORK AS SHOWN ON THE PLANS, REGARDLESS OF VEGETATION, ROCK, STREAMFLOW, WATER TABLE OR OTHER CONDITIONS THAT MAY BE ENCOUNTERED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIAL TESTING. TESTS FOR COMPACTION, GRADATION, ETC., SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER.
- THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS. THE CONTRACTOR SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING, AND USING DUST FENCES OR OTHER METHODS AS DIRECTED BY THE OWNER THROUGHOUT THE CONSTRUCTION OPERATION.
- THE CONTRACTOR SHALL KEEP A STRICT RECORD OF ALL CHANGES AND SUBMIT THIS RECORD TO THE OWNER. CERTIFIED "AS-BUILT" PLANS SHALL BE PROVIDED TO THE OWNER.
- ALL DAMAGE CAUSED TO STREETS, INCLUDING HAUL ROUTES, ETC., OR TO PRIVATE PROPERTY SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR TO THE ENGINEER'S SATISFACTION. THIS WORK SHALL BE COMPLETE PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
- CAUTION: EXISTING FACILITIES

ALL EXISTING FACILITIES OR STRUCTURES ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE CONTRACTOR, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENT PURSUANT THERETO, UNDERSTANDS THAT THEY AGREE TO ASSUME LIABILITY, AND AGREE TO HOLD THE UNDERSIGNED HARMLESS FOR ANY LIABILITY FOR DAMAGE RESULTING FROM THE EXISTENCE OF FACILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED, NOT INDICATED ON THE PUBLIC RECORDS EXAMINED, LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON RECORDS EXAMINED.

THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 WITH ADVANCE NOTICE REQUIRED BY USA PROTOCOL PRIOR TO STARTING EXCAVATION. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES, INCLUDING ALL SERVICE CONNECTIONS, WHICH HAVE BEEN MARKED BY THE RESPECTIVE OWNERS AND WHICH MAY AFFECT OR BE AFFECTED BY ITS OPERATIONS. THE CONTRACTOR IS REQUIRED TO TAKE ALL NECESSARY MEASURES TO PROTECT ALL UTILITIES AND ALL STRUCTURES FOUND AT THE SITE.

- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND/OR FAMILIARIZE THEMSELVES WITH THE STANDARDS, REQUIREMENTS, PERMITS, AND SPECIFICATIONS REFERENCED AND INCORPORATED IN THE CONTRACT DOCUMENTS OF THIS PROJECT, I.E.:
  - STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) - GREENBOOK.
  - VENTURA COUNTY STORM WATER POLLUTION CONTROL GUIDELINES (SWPCP)
  - CALIFORNIA STORMWATER BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION ACTIVITIES
  - DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND SPECIFICATIONS.
  - SAFETY AND HEALTH REQUIREMENT OF THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY.
  - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OF THE U.S. DEPARTMENT OF LABOR (OSHA)
  - STANDARD PLAN FOR PUBLIC WORKS CONSTRUCTION (SPPWC)-BY APWA
  - CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CAMUTCD
  - VENTURA COUNTY STANDARD SPECIFICATIONS (VCSS).
- THE CONTRACTOR SHALL COMPLY WITH PROJECT STORM WATER POLLUTION CONTROL PLAN (SWPCP) SIGNED BY A REGISTERED ENGINEER OR QSD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIVERSION AND CONTROL OF ALL WATER SUCH THAT THE CONSTRUCTION SHALL BE PERFORMED FREE FROM WATER ENTERING THE CONSTRUCTION AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPETENT, SUITABLE AND QUALIFIED PROFESSIONAL TO SURVEY AND LAY OUT THE WORK AS SHOWN IN THESE PLANS.
- NO HEAVY EQUIPMENT IS PERMITTED TO WORK WITHIN WATER AT ANYTIME.
- CONTRACTOR SHALL PREVENT, CONTROL AND ABATE DISCHARGES OF POLLUTANTS FROM THE CONSTRUCTION SITE ENTERING THE EXISTING DITCH IN CONFORMANCE WITH THE SWPCP.







UNDERGROUND SERVICE ALERT  
CALL BEFORE YOU DIG:



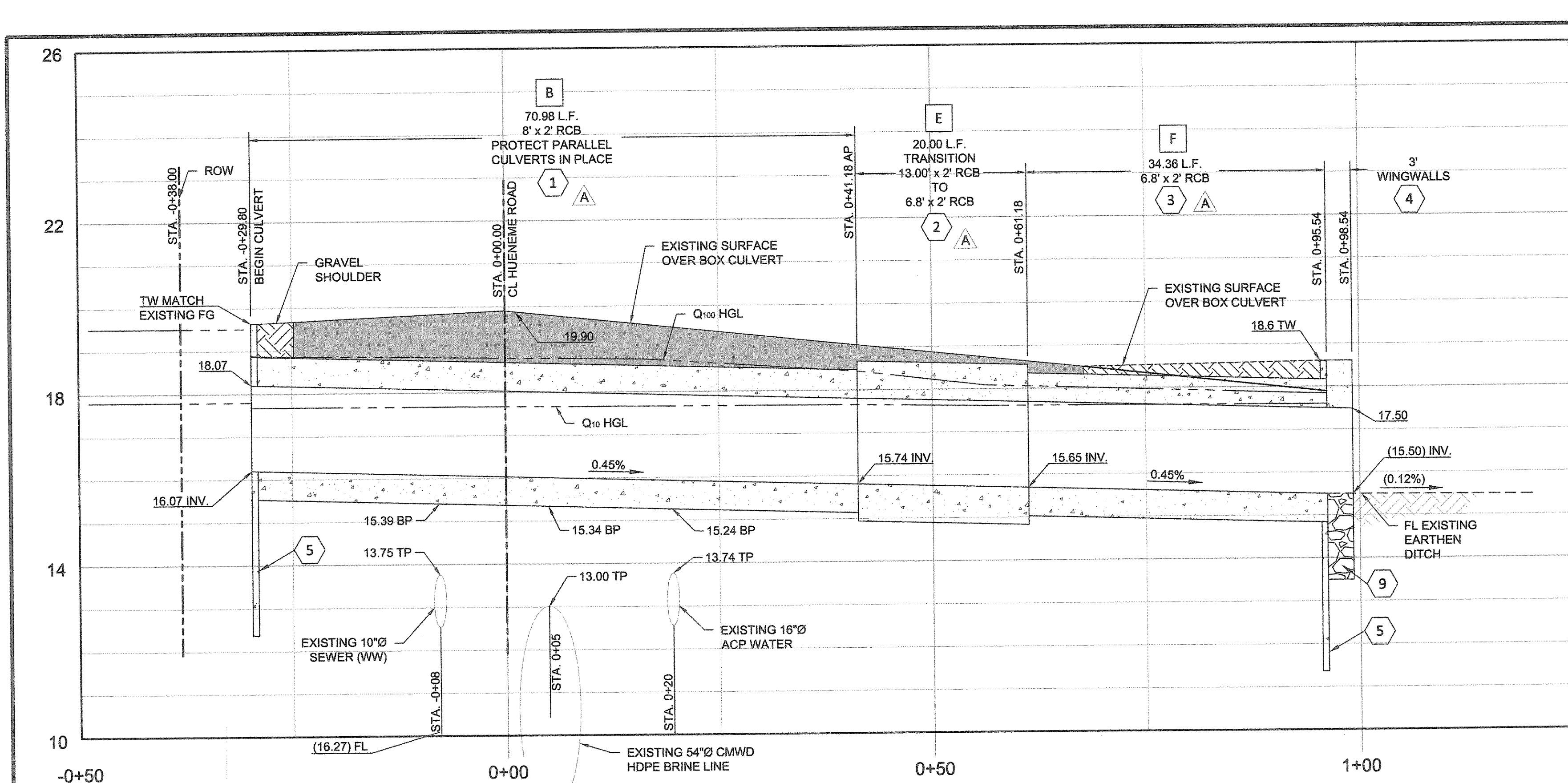
811

THREE WORKING DAYS BEFORE YOU DIG

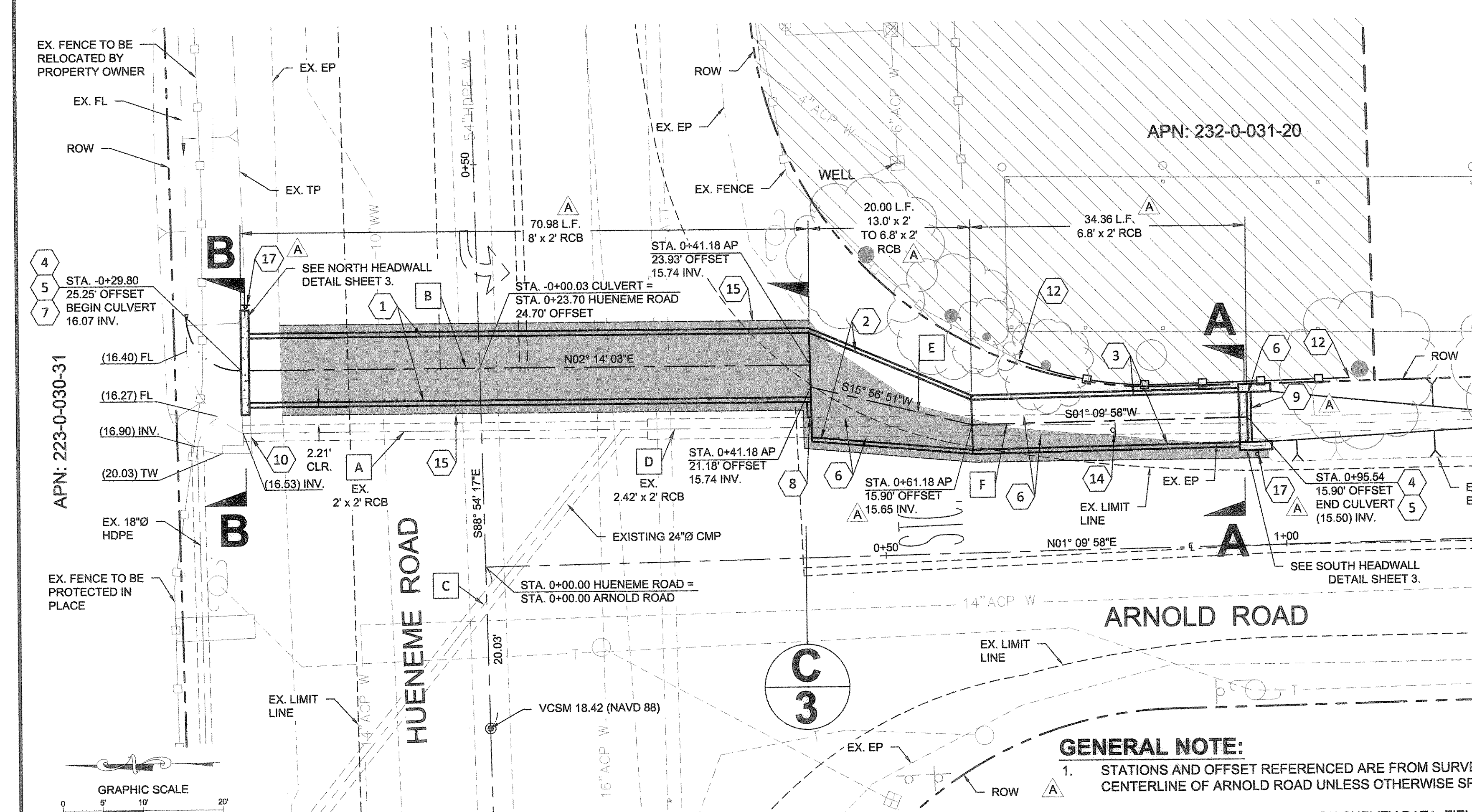
**ADDENDUM NO. 1**

D				BENCHMARK VENTURA COUNTY BENCH MARK - FOUND VCSM NEAR THE INTERSECTION OF HUENEME ROAD AND ARNOLD ROAD.	PREPARED BY:		 DEPUTY DIRECTOR, DESIGN DIVISION 9/28/15  DIRECTOR OF TRANSPORTATION 9/28/15  DIRECTOR OF PUBLIC WORKS	<b>COUNTY OF VENTURA PUBLIC WORKS AGENCY TRANSPORTATION DEPARTMENT</b>	SPEC NO. <u>RD16-02</u>	<b>HUENEME ROAD AT ARNOLD ROAD DRAINAGE IMPROVEMENTS TITLE SHEET</b>	SHEET <u>1</u> OF <u>8</u>
C				NAVD 88 ELEV. = 18.42	PROJ. NO. <u>50494</u>				DRAWING NO. <u>115087</u>		
B											
A	HORIZONTAL AND VERTICAL DATUM BASED ON "VENTURA COUNTY FIELD BOOK 2015-040". MODIFIED CULVERT DESIGN, MODIFIED DELINEATOR LOCATIONS	9/25/15									
△	REVISION	DESCRIPTION	APP.	DATE							





PROPOSED CULVERT PROFILE



**GENERAL NOTE:**  
1. STATIONS AND OFFSET REFERENCED ARE FROM SURVEY CENTERLINE OF ARNOLD ROAD UNLESS OTHERWISE SPECIFIED  
2. EXISTING STRIPING NOT BASED ON SURVEY DATA. FIELD VERIFICATION IS REQUIRED

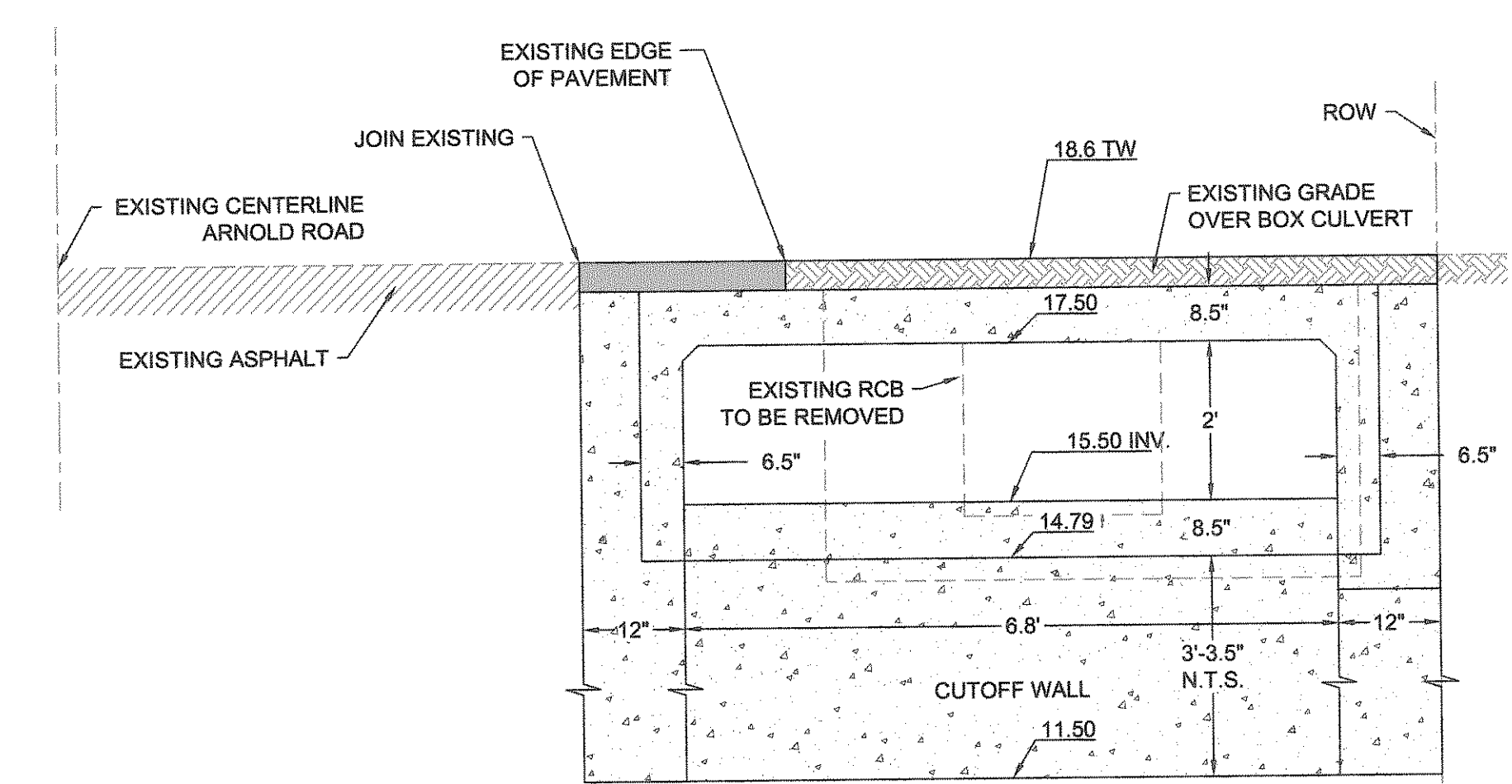
A	EX. 2'X2' RCB	D	EX. 2.42'X2' RCB
Q <sub>100</sub> = 22.2 cfs	Q <sub>100</sub> = 31.5 cfs		
V <sub>100</sub> = 5.54 fps	V <sub>100</sub> = 6.52 fps		
Q <sub>10</sub> = 7.9 cfs	Q <sub>10</sub> = 11.3 cfs		
V <sub>10</sub> = 2.2 fps	V <sub>10</sub> = 1.9 fps		
B	8'X2' RCB	E	TRANSITION RCB
Q <sub>100</sub> = 66.5 cfs	Q <sub>100</sub> = 98.0 cfs		
V <sub>100</sub> = 4.4 fps	V <sub>100</sub> = 3.6 - 7.2 fps		
Q <sub>10</sub> = 23.7 cfs	Q <sub>10</sub> = 35.0 cfs		
V <sub>10</sub> = 2.0 fps	V <sub>10</sub> = 1.64 - 2.7 fps		
C	EX. 18" CMP LAT.	F	6.8'X2' RCB
Q <sub>100</sub> = 9.4 cfs	Q <sub>100</sub> = 98.0 cfs		
V <sub>100</sub> = 5.3 fps	V <sub>100</sub> = 7.21 fps		
Q <sub>10</sub> = 3.3 cfs	Q <sub>10</sub> = 35.0 cfs		
V <sub>10</sub> = 1.9 fps	V <sub>10</sub> = 2.51 fps		

**LEGEND**

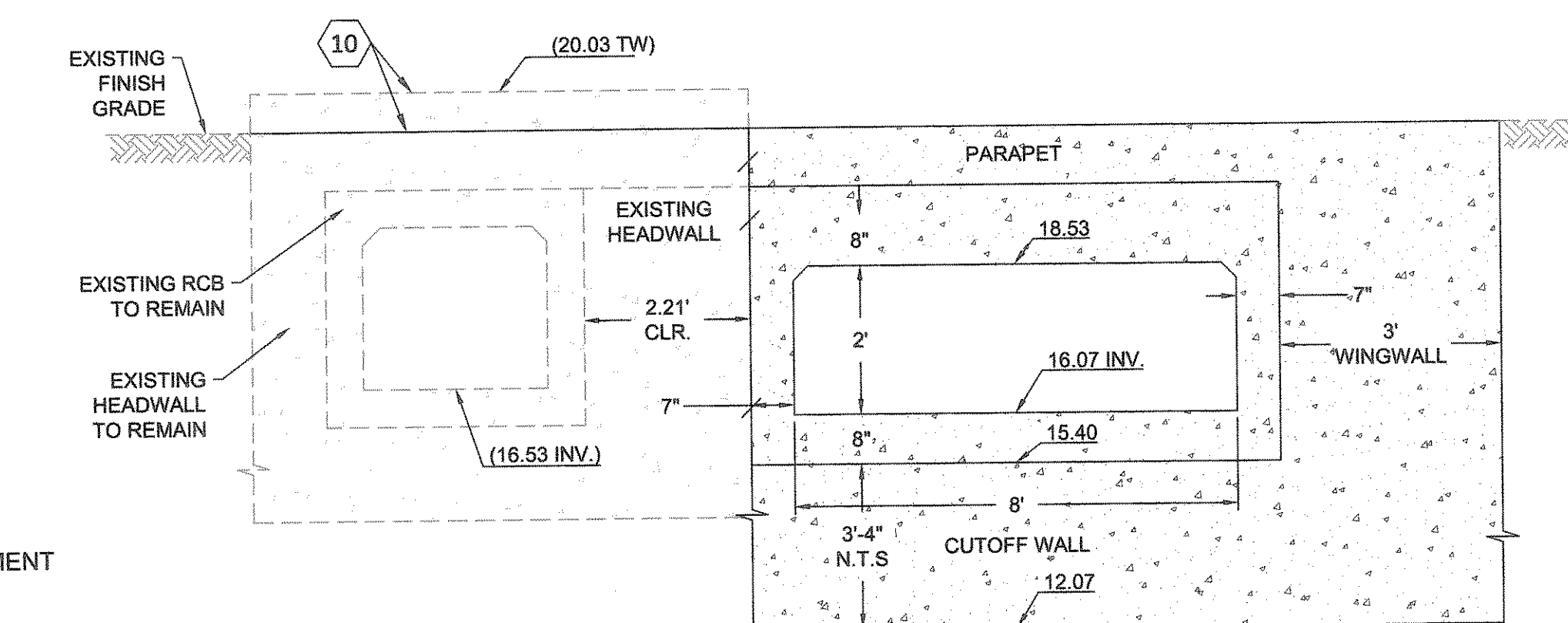
- TP TOP OF PIPE
- BP BOTTOM OF PIPE
- TW TOP OF WALL
- ( ) EXISTING ELEVATION
- INV. INVERT
- EX. EXISTING
- EP EDGE OF PAVEMENT
- ROW RIGHT-OF-WAY
- FL FLOWLINE
- AP ANGLE POINT
- CL CENTERLINE
- SC SURVEY CONTROL POINT
- Ø DIAMETER
- FINISH GRADE
- EXISTING AC PAVEMENT
- CONCRETE
- TEMPORARY CONSTRUCTION EASEMENT
- AC PAVEMENT
- POWER POLE

**CONSTRUCTION NOTES:**

1. CONSTRUCT 8' x 2' REINFORCED CONCRETE BOX PER CALTRANS STD. PLAN D81.
2. CONSTRUCT VARIABLE WIDTH RCB, 11.00' x 2 TO 6.8' x 2' PER CALTRANS STD. PLAN D81. USE 12' x 6' BOX TABLES FOR DIMENSIONS AND STEEL.
3. CONSTRUCT 6.8' x 2' REINFORCED CONCRETE BOX PER CALTRANS STD. PLAN D81. USE 8' x 4' BOX TABLES FOR DIMENSIONS AND STEEL.
4. CONSTRUCT CONCRETE HEADWALL WITH STRAIGHT OR 90° WINGWALLS, AS SHOWN PER CALTRANS STD. PLAN D86B.
5. CONSTRUCT 8" CONCRETE CUT OFF WALL, 4' DEPTH PER CALTRANS STD. PLAN D84, TYPE A STRAIGHT WINGWALL.
6. REMOVE AND DISPOSE OF 55 L.F. EXISTING 2.42' x 2' RCB AND HEADWALL COMPLETELY.
7. CONSTRUCT PARAPET PER CALTRANS STD. PLAN D82, CAST IN PLACE END ELEVATION, AT STA. -0+29.80 JOIN EXISTING HEADWALL/PARAPET.
8. CONSTRUCT 12" CONCRETE BULKHEAD BETWEEN CULVERTS.
9. CONSTRUCT 6" CONCRETE APRON 14" DEEP PER CALTRANS STD. PLAN D84.
10. EXISTING HEADWALL TO BE CUT TO MATCH EXISTING FINISH GRADE.
11. NOT USED.
12. EXISTING ±45 L.F. OF FENCING TO BE REMOVED AND REPLACED WITH CHAIN LINK FENCE.
13. NOT USED.
14. EXISTING STOP SIGN TO BE RELOCATED.
15. SAWCUT, REMOVE AND DISPOSE OF DAMAGED EXISTING A.C. PAVEMENT TO LIMITS MARKED IN THE FIELD. CONSTRUCT NEW VARIABLE DEPTH AC PAVEMENT UP TO 14" THICK OVER 95% COMPACTED FILL. MATCH EXISTING AC PAVEMENT GRADE.
16. REGRADE EXISTING DITCH TO MAINTAIN POSITIVE FLOW.
17. INSTALL OBJECT MARKER PER CALTRANS STD. PLAN. A73A, TYPE L-1.



SECTION A-A  
6.8' x 2' RCB  
NOT TO SCALE



SECTION B-B  
8' x 2' RCB  
NOT TO SCALE



**ADDENDUM NO. 1**

D	BENCHMARK VENTURA COUNTY BENCH MARK - FOUND VCSM NEAR THE INTERSECTION OF HUENEME ROAD AND ARNOLD ROAD.	PREPARED BY: <b>NextGen</b> ENGINEERING	B. O'BRIEN DESIGN BY: F. PONCE DRAWN BY: B. O'BRIEN CHECKED BY:	COUNTY OF VENTURA PUBLIC WORKS AGENCY TRANSPORTATION DEPARTMENT	SPEC NO. RD16-02	HUENEME ROAD AT ARNOLD ROAD DRAINAGE IMPROVEMENTS PLAN AND PROFILE	SHEET 2 OF 8
C	NAVD 88 ELEV. = 18.42				PROJ. NO. 50494		DRAWING NO. 115088
B	HORIZONTAL AND VERTICAL DATUM BASED ON 'VENTURA COUNTY FIELD BOOK 2015-040'. MODIFIED CULVERT DESIGN, MODIFIED DELINEATOR LOCATIONS	9/25/15					
A	REVISION	DESCRIPTION	APP.	DATE			



2010 STANDARD PLAN A73C

DELINERATOR POSITIONING

CLASS 1 FLEXIBLE POST

CLASS 2 METAL POST

CHANNELIZERS

TYPE I BARRICADE

TYPE II BARRICADE

TYPE III BARRICADE

TABLE 1 - DELINEATORS

TABLE 2 - BARRICADES

DELINERATORS, CHANNELIZERS AND BARRICADES

NO SCALE

A73C

NORTH HEADWALL CONNECTION DETAIL

SOUTH HEADWALL CONNECTION DETAIL

SCALE: 1"=5'

HUENEME ROAD

ARNOLD ROAD

SCALE: 1"=5'

VARIABLE WIDTH RCB DETAIL

SCALE: 1"=5'

SECTION C-C

NOT TO SCALE

CONSTRUCTION NOTES:

1. CONSTRUCT 8' x 2' REINFORCED CONCRETE BOX PER CALTRANS STD. PLAN D81.
2. CONSTRUCT VARIABLE WIDTH RCB, 11.00' x 2 TO 6.8' x 2' PER CALTRANS STD. PLAN D81. USE 12' x 6' BOX TABLES FOR DIMENSIONS AND STEEL.
3. CONSTRUCT 6.8' x 2' REINFORCED CONCRETE BOX PER CALTRANS STD. PLAN D81. USE 8' x 4' BOX TABLES FOR DIMENSIONS AND STEEL.
4. CONSTRUCT CONCRETE HEADWALL WITH STRAIGHT OR 90° WINGWALLS, AS SHOWN PER CALTRANS STD. PLAN D86B.
5. CONSTRUCT 8" CONCRETE CUT OFF WALL, 4' DEPTH PER CALTRANS STD. PLANS D84, D85 AND D86A.
6. REMOVE AND DISPOSE OF 55 L.F. EXISTING 2.42' x 2' RCB AND HEADWALL COMPLETELY.
7. CONSTRUCT PARAPET PER CALTRANS STD. PLANS D82 AND D83B, CAST IN PLACE END ELEVATION. AT STA. -0+29.80 JOIN EXISTING HEADWALL/PARAPET.
8. CONSTRUCT 12" CONCRETE BULKHEAD BETWEEN CULVERTS.
9. CONSTRUCT 6" CONCRETE APRON 14" DEEP PER CALTRANS STD. PLAN D84.
10. EXISTING HEADWALL TO BE CUT TO MATCH EXISTING FINISH GRADE.
11. NOT USED.
12. EXISTING ±45 L.F. OF FENCING TO BE REMOVED AND REPLACED WITH CHAIN LINK FENCE.
13. NOT USED.
14. EXISTING STOP SIGN TO BE RELOCATED.
15. SAWCUT, REMOVE AND DISPOSE OF DAMAGED EXISTING A.C. PAVEMENT TO LIMITS MARKED IN THE FIELD. CONSTRUCT NEW VARIABLE DEPTH AC PAVEMENT UP TO 14" THICK OVER 95% COMPACTED FILL. MATCH EXISTING AC PAVEMENT GRADE.
16. REGRADE EXISTING DITCH TO MAINTAIN POSITIVE FLOW.
17. INSTALL OBJECT MARKER PER CALTRANS STD. PLAN. A73A, TYPE L-1.

GENERAL NOTE:

1. STATIONS AND OFFSET REFERENCED ARE FROM SURVEY CENTERLINE OF ARNOLD ROAD UNLESS OTHERWISE SPECIFIED
2. EXISTING STRIPING NOT BASED ON SURVEY DATA. FIELD VERIFICATION IS REQUIRED

LEGEND

- TP TOP OF PIPE
- BP BOTTOM OF PIPE
- TW TOP OF WALL
- ( ) EXISTING ELEVATION
- INV. INVERT
- EX. EXISTING
- EP EDGE OF PAVEMENT
- ROW RIGHT-OF-WAY
- FL FLOWLINE
- AP ANGLE POINT
- CL CENTERLINE
- SC SURVEY CONTROL POINT
- Ø DIAMETER
- FINISH GRADE
- EXISTING AC PAVEMENT
- CONCRETE
- TEMPORARY CONSTRUCTION EASEMENT
- AC PAVEMENT
- POWER POLE

ADDENDUM NO. 1

D C B A

BENCHMARK VENTURA COUNTY BENCH MARK - FOUND VCSM NEAR THE INTERSECTION OF HUENEME ROAD AND ARNOLD ROAD.

PREPARED BY: B. O'BRIEN

COUNTY OF VENTURA PUBLIC WORKS AGENCY

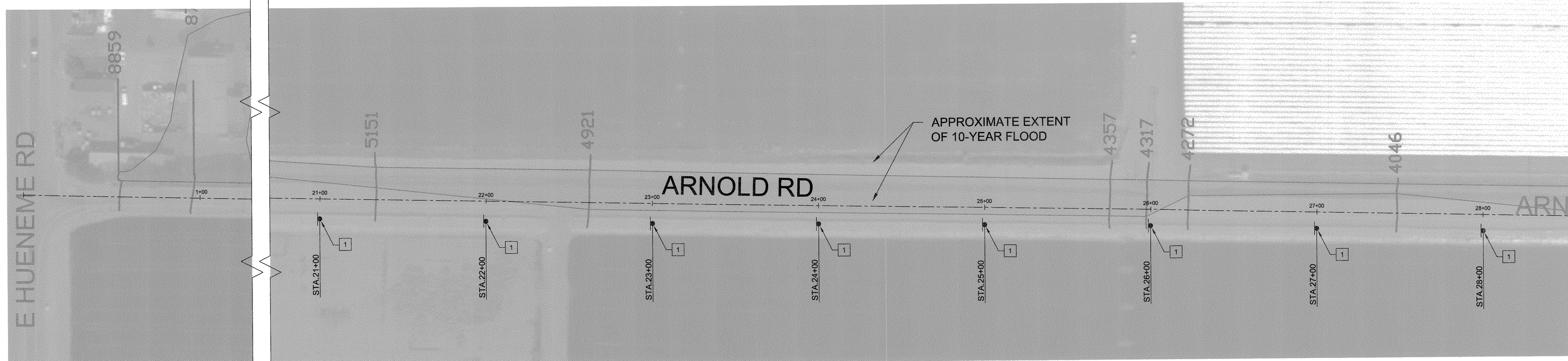
HUENEME ROAD AT ARNOLD ROAD DRAINAGE IMPROVEMENTS

DETAIL SHEET

SHEET 3 OF 8

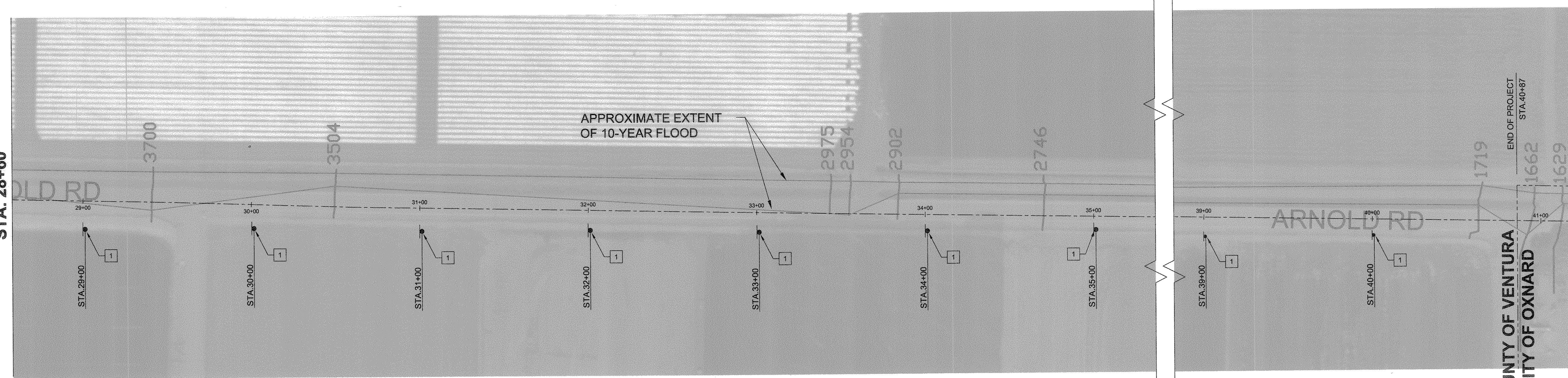
DRAWING NO. 115089



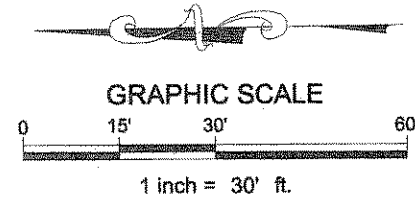


STA. 28+60  
SEE BELOW LEFT

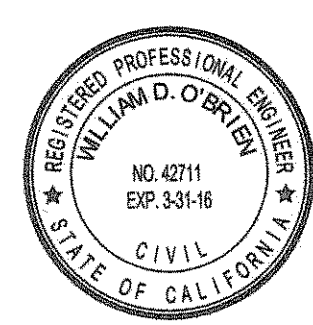
SEE ABOVE RIGHT  
STA. 28+60



# LEGEND



8302 10-YR FLOODPLAIN  
RIVER STATIONS



## CONSTRUCTION NOTES

- 1 INSTALL SURFACE MOUNT CLASS 1, TYPE I, FLEXIBLE POST, DELINEATOR @ 100'± O.C., PER CALTRANS STANDARD PLAN A73C. DELINEATORS SHALL BE PLACED 12' MAX. FROM EDGE OF PAVEMENT PER DELINEATOR POSITIONING DETAIL. THE RETROREFLECTIVE SHEETING USED ON THE BACK OF DELINEATOR SHALL BE A MINIMUM SIZE OF 3"X3".

NOTE:  
A CENTERLINE STATIONING IS RELATED TO DESIGN CENTERLINE STATIONING.

## ADDENDUM NO. 1



<div> <div>D</div> <div>C</div> <div>B</div> <div>A</div> <div>Δ</div> </div> <div> <div>HORIZONTAL AND VERTICAL DATUM BASED ON "VENTURA COUNTY FIELD BOOK 2015-040". MODIFIED CULVERT DESIGN. MODIFIED DELINEATOR LOCATIONS</div> <div>REVISION DESCRIPTION APP. DATE</div> </div>	<div> <div>BENCHMARK</div> <div>VENTURA COUNTY BENCH MARK - FOUND VCSM NEAR THE INTERSECTION OF HUENEME ROAD AND ARNOLD ROAD.</div> <div>NAVD 88 ELEV. = 18.42</div> <div>HORIZONTAL AND VERTICAL DATUM IS BASED ON "VENTURA COUNTY FIELD BOOK 2015-040".</div> </div> <div> <div>9/25/15</div> <div>APP. DATE</div> </div>	<div> <div>PREPARED BY:</div> <div>NextGen ENGINEERING</div> </div>	<div> <div>B. O'BRIEN</div> <div>DESIGN BY:</div> <div>F. PONCE</div> <div>DRAWN BY:</div> <div>B. O'BRIEN</div> <div>CHECKED BY:</div> </div>	<div> <div>COUNTY OF VENTURA</div> <div>PUBLIC WORKS AGENCY</div> <div>TRANSPORTATION DEPARTMENT</div> </div>	<div> <div>SPEC NO.</div> <div>RD16-02</div> <div>PROJ. NO.</div> <div>50494</div> </div>	<div> <div>HUENEME ROAD AT ARNOLD ROAD</div> <div>DRAINAGE IMPROVEMENTS</div> <div>SAFETY DELINEATOR LOCATIONS</div> </div>	<div> <div>SHEET 8</div> <div>OF 8</div> <div>DRAWING NO. 115094</div> </div>
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