

Public Works works for the Public



COUNTY OF IMPERIAL

DEPARTMENT OF PUBLIC WORKS

155 S. 11th Street El Centro, CA 92243

Tel: (442) 265-1818 Fax: (442) 265-1858

Follow Us:





COUNTY OF IMPERIAL PUBLIC WORKS
Bombay Beach Townsite Roadway Improvement Project
County Project No. 6810

ADDENDUM NO. 2

July 06, 2022

This *ADDENDUM* is hereby made part of the Contract Documents and specifications to the same extent as if originally included therein, and shall be signed by the Bidder and included with the proposal.

1. Question: "specify if the pavement markings are thermoplastic or a 2-coat paint application and the type of reflective beads required"

Response: Two (2) paint applications shall be applied to the pavement surface, followed by a glass reflective media application. See attached Caltrans 2018 Standard Specification Section 84.

2. Question: "there are 31 tie-cards for survey monuments. Can you clarify how many need to be preserved?"

Response: Each tie-card indicates locations of monuments, corner accessories and/or benchmarks. Some are within the limits of work, some are outside the limits of work. The contractor shall be responsible for any survey monuments, corner accessories and/or benchmarks within the limits of work. In accordance with the professional Land Surveyors' Act (Chapter 15 of the California Business and Professions Code), such objects within the limits of work that may be disturbed or destroyed by construction shall be referenced by a person authorized to practice Land Surveying and corner record (or record of survey) showing said references shall be filed with the county surveyor prior to construction. Any monument, corner accessory, or benchmark that is disturbed or destroyed by construction shall be replaced with appropriate monumentation by a person authorized to practice Land surveying and a corner record (or record of Survey) shall be filed prior to project completion. Form MPR-01 and Form MPR-02 are required for all Imperial County Projects. See attached tie cards, Form MPR-01 and Form MPR-02.

John A. Gay, P.E., Director of Public Works

Acknowledgement of Addendum No. 2

The general contractor is responsible for advising any and all subcontractors of this change. Each bidder must acknowledge receipt of this addendum in the noted space below and where indicated on the Bidder's Proposal Section of the Special Provisions. This Addendum must be attached to the proposal.

License No:	
Print or Type Company Name:	
Print or Type Authorized Name:	
Authorized Signature of Contractor:	
Date Signed:	

84 MARKINGS 84-1 GENERAL

84-1.01 GENERAL

Section 84-1 includes general specifications for applying and constructing markings.

Markings must comply with the CA MUTCD.

84-1.02 MATERIALS

Not Used

84-1.03 CONSTRUCTION

Not Used

84-1.04 PAYMENT

Not Used

84-2 TRAFFIC STRIPES AND PAVEMENT MARKINGS

84-2.01 GENERAL

84-2.01A Summary

Section 84-2 includes specifications for applying traffic stripes and pavement markings.

84-2.01B Definitions

pavement marking: Transverse marking such as (1) a limit line, (2) a stop line, or (3) a word, symbol, shoulder, parking stall, or railroad-grade-crossing marking.

traffic stripe: Longitudinal centerline or lane line used for separating traffic lanes in the same direction of travel or in the opposing direction of travel or a longitudinal edge line marking the edge of the traveled way or the edge of a lane at a gore area separating traffic at an exit or entrance ramp. A traffic stripe is shown as a traffic line.

84-2.01C Submittals

For each lot or batch of thermoplastic, paint, and glass beads, submit:

- 1. Certificate of compliance, including the product name, lot or batch number, and manufacture date
- 2. METS notification letter stating that the material is authorized for use, except for thermoplastic
- 3. SDS
- 4. Material data sheet for thermoplastic primer

For each lot or batch of thermoplastic, submit a manufacturer's certificate of compliance with test results for the tests specified in section 84-2.01D. The date of test must be within 1 year of use.

For glass beads used in drop-on applications and in thermoplastic formulations, submit a certificate of compliance and test results for each lot of beads specifying the EPA test methods used and tracing the lot to the specific test sample. The testing for lead and arsenic content must be performed by an independent testing laboratory.

Submit retroreflectivity readings for traffic stripes and pavement markings at locations with deficient retroreflectivity determined by the Engineer.

84-2.01D Quality Assurance

Before starting permanent application of two-component painted traffic stripes or markings, apply a test stripe of the paint on roofing felt or other suitable material in the presence of the Engineer. The test section must be at least 50 feet in length.

Test each lot of glass beads for arsenic and lead under EPA Test Method 3052 and 6010B or 6010C.

The Engineer will perform a nighttime, drive-through, visual inspection of the retroreflectivity of the traffic stripes and pavement markings and notify you of any locations with deficient retroreflectivity. Measure the retroreflectivity of the deficient areas using a retroreflectometer under ASTM E1710 and the sampling protocol specified in ASTM D7585.

Each lot or batch of thermoplastic must be tested under California Test 423 for:

- 1. Brookfield Thermosel viscosity
- 2. Hardness
- 3. Yellowness index, white only
- 4. Daytime luminance factor
- 5. Yellow color, yellow only
- 6. Glass bead content
- 7. Binder content

During the installation of thermoplastic traffic stripes or markings at the job site, apply a test stripe of the thermoplastic on suitable material in the presence of the Engineer. The test stripe must be at least 1 foot in length. The test stripe will be tested for yellow color, daytime luminance factor, and yellowness index requirements.

84-2.02 MATERIALS

84-2.02A General

Traffic stripes and pavement markings must be retroreflective. Within 30 days of applying traffic stripes and pavement markings, the retroreflectivity of the stripes and markings must be a minimum of 250 mcd·m⁻²·lx⁻¹ for white and 125 mcd·m⁻²·lx⁻¹ for yellow when measured under ASTM E1710.

84-2.02B Thermoplastic

Thermoplastic must comply with State Specification PTH-02SPRAY, PTH-02HYDRO, or PTH-02ALKYD.

For recessed thermoplastic stripes and pavement markings, mark packages of thermoplastic with the words *For Recessed Application*.

84-2.02C Paint

The paint for traffic stripes and pavement markings must comply with the specifications for the paint type and color shown in following table:

Paint Specifications

Paint type	Color	Specification
Waterborne traffic line	White, yellow, and black	State Specification PTWB-01R2
Acetone-based	White, yellow, and black	State Specification PT-150VOC(A)
Waterborne traffic line for the international symbol of accessibility and other curb markings	Blue, red, and green	Federal Specification TT-P-1952E

The color of painted traffic stripes and pavement markings must comply with ASTM D6628.

84-2.02D Glass Beads

Glass beads applied to paint must comply with State Specification 8010-004.

Glass beads applied to molten thermoplastic material must be Type 2 beads complying with AASHTO M 247. The glass beads must have a coating that promotes adhesion of the beads to thermoplastic.

At least 75 percent of the beads by count must be true spheres that are colorless and do not exhibit dark spots, air inclusions, or surface scratches when viewed under 20X magnification.

Each lot of glass beads used in pavement markings must contain less than 200 ppm each of arsenic and lead when tested under EPA Test Methods 3052 and 6010B or 6010C.

84-2.02E Thermoplastic Traffic Stripes and Pavement Markings with Enhanced Wet-Night Visibility

A thermoplastic traffic stripe or pavement marking with enhanced wet-night visibility consists of a single uniform layer of thermoplastic and 2 layers of glass beads.

The 1st layer of glass beads must be on the Authorized Material List for high-performance glass beads. The color of the glass beads must match the color of the stripe or marking to which they are being applied.

The 2nd layer of glass beads must comply with AASHTO M 247, Type 2.

The glass beads used in both layers must be surface treated for use with thermoplastic under the bead manufacturer's instructions.

Within 14 days of applying a thermoplastic traffic stripe or pavement marking with enhanced wet-night visibility, the retroreflectivity must be a minimum of 700 mcd·m⁻²·lx⁻¹ for white stripes and markings and 500 mcd·m⁻²·lx⁻¹ for yellow stripes and markings when measured under ASTM E1710.

84-2.02F Two-Component Painted Traffic Stripes and Pavement Markings

A two-component painted traffic stripe or pavement marking consists of 1 coat of paint and 2 applications of retroreflective glass beads of 2 gradations.

The large-gradation glass beads must be on the Authorized Material List for two-component traffic striping paints and large-gradation retroreflective glass beads.

The small-gradation glass beads must comply with AASHTO M 247, Type 1.

The glass beads must have an adhesion-promoting and water-repellant coating complying with the paint manufacturer's instructions.

You may use alternative types of glass beads recommended by the paint manufacturer if authorized.

The daytime and nighttime color of the painted traffic stripes and pavement markings must comply with ASTM D6628.

84-2.02G Recessed Two-Component Painted Traffic Stripes and Pavement Markings

Reserved

84-2.02H Traffic Stripe and Pavement Marking Tape

Reserved

84-2.02I-84-2.02M Reserved 84-2.03 CONSTRUCTION

84-2.03A General

Establish the alignment for traffic stripes and the layouts for pavement markings with a device or method that will not conflict with other traffic control devices.

Protect existing retroreflective pavement markers during work activities.

Remove existing pavement markers that are coated or damaged by work activities and replace each with an equivalent marker on the Authorized Material List for signing and delineation materials.

A completed traffic stripe must:

- 1. Have clean, well-defined edges without running or deformation
- 2. Be uniform
- 3. Be straight on a tangent alignment and on a true arc on a curved alignment

The width of a completed traffic stripe must not deviate from the width shown by more than 1/4 inch on a tangent alignment and 1/2 inch on a curved alignment.

The length of the gaps and individual stripes that form a broken traffic stripe must not deviate by more than 2 inches from the lengths shown. The gaps and stripes must be uniform throughout the entire length of each section of broken traffic stripe so that a normal striping machine can repeat the pattern and superimpose successive coats on the applied traffic stripe.

A completed pavement marking must have well-defined edges without running or deformation.

A completed thermoplastic traffic stripe or thermoplastic pavement marking must be free from runs, bubbles, craters, drag marks, stretch marks, and debris.

Protect newly placed traffic stripes and pavement markings from traffic and other deleterious activities until the paint is thoroughly dry or the thermoplastic is hard enough to bear traffic.

84-2.03B Surface Preparation

Use mechanical wire brushing to remove dirt, contaminants, and loose material from the pavement surface that is to receive the traffic stripe or pavement marking.

Use abrasive blast cleaning to remove laitance and curing compound from the surface of new concrete pavement that is to receive the traffic stripe or pavement marking.

84-2.03C Application of Stripes and Markings 84-2.03C(1) General

Apply thermoplastic for a pavement marking with a stencil or a preformed marking.

Apply paint for a pavement marking by hand with a stencil and spray equipment.

You may use permanent tape for a traffic stripe or a pavement marking instead of paint or thermoplastic. The permanent tape must be on the Authorized Material List for signing and delineation materials. Apply the tape under the manufacturer's instructions.

Immediately remove drips, overspray, improper markings, paint, and thermoplastic tracked by traffic with an authorized method.

Apply a traffic stripe or a pavement marking only to a dry surface during a period of favorable weather when the pavement surface is above 50 degrees F.

The glass beads must be embedded in the coat of paint or thermoplastic to a depth of 1/2 their diameters.

Verify the rate of application of the glass beads by stabbing the glass bead tank with a calibrated rod.

Where a new broken traffic stripe joins an existing broken traffic stripe, allow enough overlap distance between the new and existing striping patterns to ensure continuity at the beginning and end of the transition.

84-2.03C(2) Thermoplastic Traffic Stripes and Pavement Markings 84-2.03C(2)(a) General

Do not thin the primer. Apply the primer under the manufacturer's instructions:

- 1. To all roadway surfaces except for asphaltic surfaces less than 6 months old
- 2. At a minimum rate of 1 gallon per 300 square feet
- 3. To allow time for the thermoplastic primer to dry and become tacky prior to application of the thermoplastic

Use preheaters with mixers having a 360-degree rotation to preheat the thermoplastic material.

Apply the thermoplastic in a single uniform layer by spray or extrusion methods.

Completely coat and fill voids in the pavement surface with the thermoplastic.

84-2.03C(2)(b) Extruded Thermoplastic Traffic Stripes and Pavement Markings

Apply extruded thermoplastic at a temperature from 400 to 425 degrees F unless a different temperature is recommended by the manufacturer.

Apply extruded thermoplastic for a traffic stripe at a rate of at least 0.36 lb of thermoplastic per foot of 6-inch-wide solid stripe. The applied thermoplastic traffic stripe must be at least 0.060 inch thick.

An applied thermoplastic pavement marking must be from 0.100 to 0.150 inch thick.

Apply glass beads to the surface of the molten thermoplastic at a rate of at least 8 lb of beads per 100 sq ft.

84-2.03C(2)(c) Sprayable Thermoplastic Traffic Stripes and Pavement Markings

Apply sprayable thermoplastic under State Specification PTH-02SPRAY at a temperature from 350 to 400 degrees F.

Apply sprayable thermoplastic at a rate of at least 0.24 lb of thermoplastic per foot of 6-inch-wide solid stripe.

The applied sprayable thermoplastic material must be at least 0.040 inch thick.

84-2.03C(2)(d) Recessed Thermoplastic Traffic Stripes and Pavement Markings

Construct recesses for double traffic stripes in a single pass.

Keep the recesses dry and free from debris. Apply primer to the recesses.

After constructing the recesses, apply the thermoplastic traffic stripes and pavement markings before the end of the same work shift.

84-2.03C(2)(e) Thermoplastic Traffic Stripes and Pavement Markings with Enhanced Wet-Night Visibility

Use a ribbon-extrusion or screed-type applicator to apply thermoplastic traffic stripes with enhanced wetnight visibility. Operate the striping machine at a speed of 8 mph or slower during the application of the stripe and glass beads.

Apply the stripe at a rate of at least 0.57 lb of thermoplastic per foot of 6-inch-wide solid stripe. The applied thermoplastic traffic stripe must be at least 0.090 inch thick.

Apply thermoplastic pavement marking at a rate of at least 1.06 lb of thermoplastic per square foot of marking. The applied thermoplastic pavement marking must be at least 0.100 inch thick.

Apply thermoplastic traffic stripe and both types of glass beads in a single pass. First apply the thermoplastic, followed immediately by consecutive applications of high-performance glass beads and then AASHTO M 247, Type 2, glass beads. Use a separate applicator gun for each type of glass bead.

You may apply glass beads by hand on pavement markings.

Uniformly distribute glass beads on traffic stripes and pavement markings. Apply high-performance glass beads at a rate of at least 6 lb of glass beads per 100 sq ft of stripe or marking. Apply AASHTO M 247, Type 2, glass beads at a rate of at least 8 lb of glass beads per 100 sq ft of stripe or marking. The combined weight of the 2 types of glass beads must be greater than 14 lb of glass beads per 100 sq ft of stripe or marking.

84-2.03C(3) Painted Traffic Stripes and Pavement Markings 84-2.03C(3)(a) General

Do not thin paint for traffic stripes and pavement markings. Mix the paint by mechanical means until it is homogeneous. Thoroughly agitate the paint during its application.

Use mechanical means to paint traffic stripes and pavement markings and to apply glass beads for traffic stripes.

The striping machine must be capable of superimposing successive coats of paint on the 1st coat and on existing stripes at a speed of at least 5 mph.

The striping machine must:

- 1. Have rubber tires
- 2. Be maneuverable enough to produce straight lines and normal curves in true arcs
- Be capable of applying traffic paint and glass beads at the specified rates
- 4. Be equipped with:
 - 4.1. Pointer or sighting device at least 5 feet long extending from the front of the machine
 - 4.2. Pointer or sighting device extending from the side of the machine to determine the distance from the centerline for painting shoulder stripes
 - 4.3. Positive acting cutoff device to prevent depositing paint in gaps of broken stripes
 - 4.4. Shields or an adjustable air curtain for line control

4.5. Pressure regulators and gauges that are in full view of the operator for a pneumatically operated machine

- 4.6. Paint strainer in the paint supply line
- 4.7. Paint storage tank with a mechanical agitator that operates continuously during painting activities
- 4.8. Glass bead dispenser located behind the paint applicator nozzle that is controlled simultaneously with the paint applicator nozzle
- 4.9. Calibrated rods for measuring the volumes of paint and glass beads in the paint and glass bead tanks

Air-atomized spray equipment must:

- 1. Be equipped with oil and water extractors and pressure regulators
- 2. Have adequate air volume and compressor recovery capacity
- 3. Have properly sized orifices and needle assemblies for the spray gun tip

Where the configuration or location of a traffic stripe is such that the use of a striping machine is not practicable, you may apply the traffic paint and glass beads by other methods and equipment if authorized. The Engineer determines if the striping machine is not practicable for a particular use.

For an existing surface, apply traffic stripes and pavement markings in 1 coat.

For a new surface, except for the black stripe between the 2 yellow stripes of a double traffic stripe, apply traffic stripes and pavement markings in 2 coats. The 1st coat of paint must be dry before applying the 2nd coat.

Paint a 1-coat, 3-inch-wide black stripe between the two 6-inch-wide yellow stripes of a double traffic stripe.

If the two 6-inch-wide yellow stripes are applied in 2 coats, apply the black stripe concurrently with the 2nd coat of the yellow stripes.

Apply each coat of paint for any traffic stripe in 1 pass of the striping machine, including the glass beads, regardless of the number, width, and pattern of the individual stripes. Do not paint traffic stripes and pavement markings if:

- 1. Freshly painted surfaces could become damaged by rain, fog, or condensation
- 2. Atmospheric temperature could drop below 40 degrees F for acetone-based paint and 50 degrees F for waterborne paint during the drying period

On 2-lane highways:

- 1. If the 1st coat of the centerline stripe is applied in the same direction as increasing post miles, use the right-hand spray gun of the 3 spray guns used to apply the double yellow stripe to apply a single vellow stripe.
- 2. If the 1st coat of the centerline stripe is applied in the same direction as decreasing post miles, use the left-hand spray gun of the 3 spray guns used to apply the double yellow stripe to apply a single yellow stripe.
- 3. Apply the 2nd coat of centerline striping in the opposite direction of the 1st coat.

Apply 1-coat paint at an approximate rate of 107 sq ft/gal.

Apply 2-coat paint at the approximate rate shown in the following table:

Two-Coat Paint Application Rates

	Coverage (sq ft/gal)		
Paint type	1st coat	2nd coat	
Waterborne paint	215	215	
Acetone-based paint	360	150	

Apply glass beads at an approximate rate of 5 lb of beads per gallon of paint.

The Engineer determines the exact application rate of the paint and glass beads.

Verify the application rate of paint by stabbing the paint tank with a calibrated rod. If the striping machine has paint gauges, the Engineer may measure the volume of paint using the gauges instead of stabbing the paint tank with a calibrated rod.

84-2.03C(3)(b) Two-Component Painted Traffic Stripes and Pavement Markings

Do not apply paint for two-component painted traffic stripes and pavement markings until authorized.

Apply the paint only to clean, completely dry surfaces when the pavement surface temperature is above 39 degrees F and the ambient temperature is above 36 degrees F.

Comply with the paint manufacturer's instructions for the temperature of the paint during its application.

The striping machine must not travel faster than 10 mph when applying the paint and glass beads.

Apply the paint and glass beads in 1 pass in the following order:

- 1. Paint
- 2. Large-gradation glass beads
- 3. Small-gradation glass beads

Apply the glass beads with 2 separate applicator guns.

Uniformly distribute the glass beads on traffic stripes and pavement markings.

You may apply the glass beads by hand methods on pavement markings.

Apply the large-gradation glass beads at a minimum rate of 11.7 lb of beads per gallon of paint.

Apply the small-gradation glass beads at a minimum rate of 8.3 lb of beads per gallon of paint.

84-2.03C(3)(c) Recessed Two-Component Painted Traffic Stripes and Pavement Markings Reserved

84-2.03C(4) Reserved

Reserved

84-2.03C(5)-84-2.03C(10) Reserved 84-2.04 PAYMENT

The payment quantity for a traffic stripe is the length measured along the line of the traffic stripe without deductions for gaps in the broken traffic stripe.

The payment quantity for a pavement marking is the area covered.

A double extruded thermoplastic traffic stripe consisting of two 6-inch-wide yellow stripes is measured as 2 traffic stripes.

A double sprayable thermoplastic traffic stripe consisting of two 6-inch-wide yellow stripes is measured as 1 traffic stripe.

A double traffic stripe consisting of two 6-inch-wide yellow stripes separated by a 3-inch-wide black stripe is measured as a single traffic stripe.

84-3 CONTRAST TREATMENT

84-3.01-84-3.10 RESERVED

84-4-84-7 RESERVED 84-8 RUMBLE STRIPS

84-8.01 GENERAL 84-8.01A Summary

Section 84-8 includes specifications for constructing rumble strips.

84-8.01B Definitions

rumble strip: Band of raised material or indentations formed or grooved in the traveled way on the centerline or shoulders that is used to alert or warn drivers.

84-8.01C Submittals

Reserved

84-8.01D Quality Assurance

Reserved

84-8.02 MATERIALS

Not Used

84-8.03 CONSTRUCTION

84-8.03A General

Select the method and equipment for constructing ground-in indentations.

Do not construct rumble strips:

- 1. On structures, approach slabs, or concrete weigh-in-motion slabs
- 2. At intersections
- 3. Bordering two-way left turn lanes, driveways, or other high-volume turning areas
- 4. Within 6 inches of any concrete pavement joint

Modify rumble strip spacing to avoid locating a groove on a concrete pavement joint.

Construct rumble strips within 2 inches of the alignment shown. Rumble strip equipment must be equipped with a sighting device that enables the operator to maintain the rumble strip alignment.

Indentations must comply with the dimensions shown and not vary more than:

- 1. 10 percent in length
- 2. 0.06 inch in depth
- 3. 10 percent in width
- 4. 1 inch in center-to-center spacing between rumble strips

Grind or remove and replace noncompliant rumble strip indentations at locations determined by the Engineer. Ground surface areas must be neat and uniform in appearance.

Grinding equipment must be equipped with a vacuum attachment to remove residue from the roadbed.

The noise level created by the combined grinding activities must not exceed 86 dBA when measured at a distance of 50 feet at right angles to the direction of travel.

Break rumble strips before and after intersections, driveways, railroad crossings, freeway gore areas, and freeway ramps. Place breaks and break distances as shown. You may adjust breaks and the break distances as needed at low-volume driveways or other locations if authorized.

84-8.03B Rumble Strips in Concrete Pavement

Construct rumble strips by grinding indentations in concrete pavement.

Concrete pavement must be hardened before grinding the indentations. Do not construct indentations until (1) 10 days after concrete placement and (2) the concrete has developed a modulus of rupture of 550 psi when tested under California Test 523.

Remove grinding residue under section 13-4.03E(7).

84-8.03C Rumble Strips in Asphalt Concrete Pavement

Construct rumble strips in the top layer of HMA and asphalt concrete surfacing by the ground-in method.

Dispose of the removed material.

On ground areas, apply a fog seal coat under section 37-4.02.

84-8.04 PAYMENT

The payment quantity for any type of rumble strip is the length measured by the station along the length of the rumble strip without deductions for gaps between indentations.

84-9 EXISTING MARKINGS

84-9.01 GENERAL

Section 84-9 includes specifications for removing existing markings.

Work performed on existing markings must comply with section 15.

84-9.02 MATERIALS

Not Used

84-9.03 CONSTRUCTION

84-9.03A General

Reserved

84-9.03B Remove Traffic Stripes and Pavement Markings

Remove traffic stripes before making any change to the traffic pattern.

Completely remove traffic stripes and pavement markings, including any paint in the gaps, by methods that do not remove pavement to a depth of more than 1/8 inch.

Submit your proposed method for removing traffic stripes and pavement markings at least 7 days before starting the removal work. Allow 2 business days for the review.

Remove pavement marking such that the old message cannot be identified. Make any area removed by grinding rectangular. Water must not puddle in the ground areas. Fog seal ground areas on asphalt concrete pavement.

Sweep up or vacuum any residue before it can (1) be blown by traffic or wind, (2) migrate across lanes or shoulders, or (3) enter a drainage facility.

84-9.03C Remove Traffic Stripes and Pavement Markings Containing Lead

Reserved

84-9.03D Remove Contrast Treatment

If contrast treatment is shown to be removed, remove it by a method that does not damage the pavement.

Sweep up or vacuum any residue before it can (1) be blown by traffic or wind, (2) migrate across lanes or shoulders, or (3) enter a drainage facility.

84-9.03E-84-9.03J Reserved

84-9.04 PAYMENT

The payment quantity for remove traffic stripe is the measured length multiplied by:

- 1. 1.34 for a single 8-inch-wide traffic stripe
- 2. 2 for a double traffic stripe
- 3. 3 for a triple traffic stripe

The payment quantity for remove traffic stripe does not include the gaps in broken traffic stripes. Payment for removal of paint evident in a gap is included in the payment for remove traffic stripe of the type involved.

If no bid item is shown on the Bid Item List for remove pavement marking, remove pavement marking is paid for as remove traffic stripe of the types shown in the Bid Item List and the payment quantity for 1 square foot of pavement marking is 3 linear feet.

85 RESERVED



NAME

P.L.S./R.C.E.

County of Imperial Department of Public Works 155 S 11th Street El Centro, CA 92243 (442) 265-1818

Monument Preservation Report PRE-CONSTRUCTION

FORM

MPR-01

April 2021

County of Imperial Permit Number/Project Name		
founty of Imperial Permit Number/Project Name		

PRIOR TO PERMIT ISSUANCE, THE PERMITTEE SHALL RETAIN THE SERVICE OF A PROFESSIONAL LAND SURVEYOR

PRESERVATION A SURVEYOR AS RE RESPONSIBLE FOR	AND WHO SHALL PROV EQUIRED BY THE PROFE	IDE A CORNER RECC ESSIONAL LAND SURV	ORD (OR RECO EYORS' ACT,	L BE RESPONSIBLE FOR MONUMENT DRD OF SURVEY) TO THE COUNTY IF APPLICABLE. THE PERMITTEE IS MONUMENTS THAT ARE DISTURBED,
(RE	FERENCE SECTION 8771	OF THE CALIFORNIA	BUSINESS AND	PROFESSIONS CODE)
****** <u>THIS FOR</u>	M TO BE COMPLETED	BY A PERSON AUTHO	RIZED TO PR	ACTICE LAND SURVEYING ******
	ONSTRUCTION PROPOSE ted for projects that are prop			
NAME	P.L.S./R.C.E.	SIGNATURE	DATE	(SEAL)
☐ THE TYPE OF CONSTRUCTION MAY AFFECT SURVEY MONUMENTS. (This box is checked for projects that are proposing demolition, trenching, excavation, surfacing, etc.)				
I HAVE INSPECTED	OTHE SITE(S) AND: (chec	k all that apply)	DA	ATE OF INSPECTION:
MONUMENT(S) AND/OR CORNER ACCESSORY(IES) WERE FOUND WITHIN THE LIMITS OF WORK WHICH I DETERMINED MAY BE DISTURBED OR DESTROYED. (A corner record or record of survey is required.) The found monument(s) and/or corner accessory(ies) were referenced and pre-construction corner record(s) (or record(s) of survey) showing the references has been filed with the County Surveyor for the project site(s). The filed corner record(s) (or record(s) of survey) is attached hereto. Also attached, (if not documented on the corner record(s) (or record(s) of survey)) is a sketch/diagram showing locations of monuments that were searched for and not found. I have placed "S.N.F." on the sketch/diagram for each monument and/or corner accessory that was not found. Photos may also be included.				
□ NO MONUMENT(S) AND/OR CORNER ACCESSORY(IES) WERE FOUND WITHIN THE LIMITS OF WORK. (No corner				
record or record of survey is required.) Attached is a sketch/diagram showing the limits of work and its relationship to the locations of any monument and/or corner accessory searched for and not found. I have placed "S.N.F." on the sketch/diagram for each monument and/or corner accessory not found. Photos may also be included.				
☐ MONUMENT(S) AND/OR CORNER ACCESSORY(IES) WERE FOUND OUTSIDE THE LIMITS OF WORK WHICH I DETERMINED WILL REMAIN PROTECTED IN PLACE. (No corner record or record of survey is required.) Attached is a sketch/diagram of the work limits and its relationship to the found monuments. Photos may also be included.				
☐ MONUMENT(S) AND/OR CORNER ACCESSORY(IES) WERE FOUND WITHIN THE LIMITS OF WORK WHICH I DETERMINED MAY BE DISTURBED OR DESTROYED, HOWEVER AN EXISTING CORNER RECORD (OR RECORD OF SURVEY) WHICH SHOWS SUFFICIENT REFERENCES HAS ALREADY BEEN FILED AND THERE IS NO DISCREPANCY ON THE FILED CORNER RECORD (OR RECORD OF SURVEY).				
SOURCE(S) OF SUF	RVEY DATA CONSULTEI	D: (Final Maps, Parcel Ma	ps, Records of S	urvey, private field notes, etc.)
FILED CORNER RE	CORD#	OR FILED RECORD	OF SURVEY#_	

SIGNATURE

DATE

(SEAL)



County of Imperial Department of Public Works 155 S 11th Street El Centro, CA 92243 (442) 265-1818

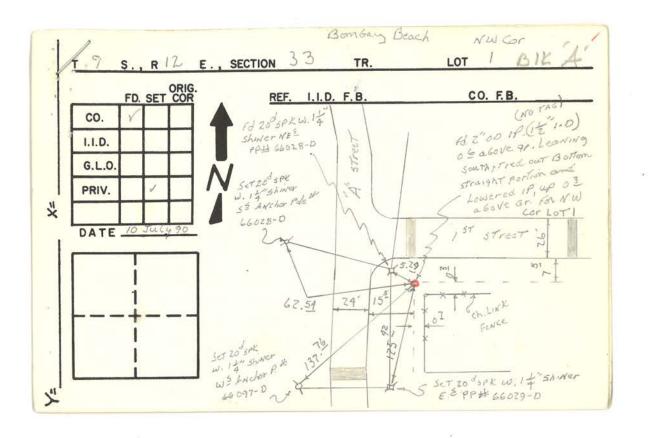
Monument Preservation Report POST-CONSTRUCTION

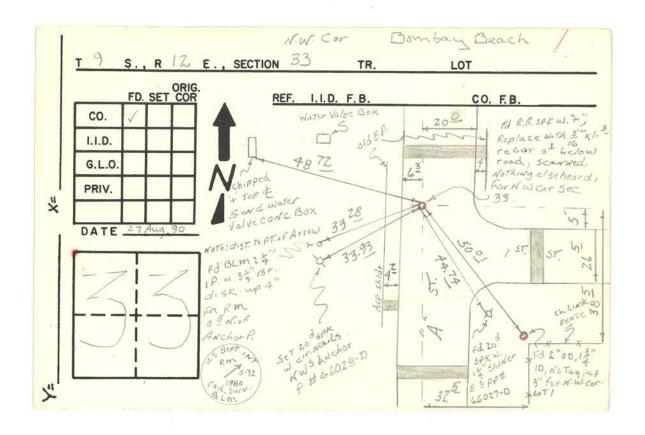
FORM

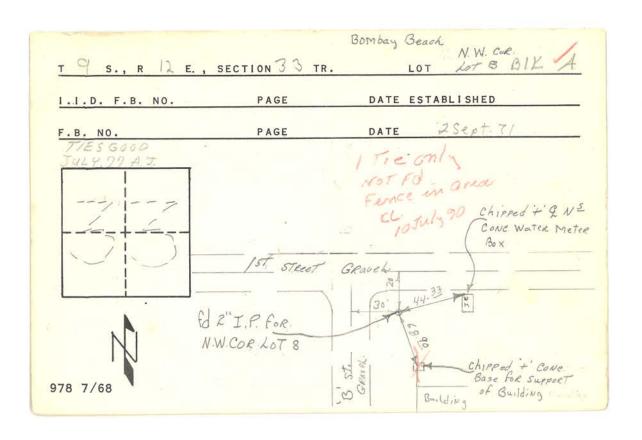
MPR-02

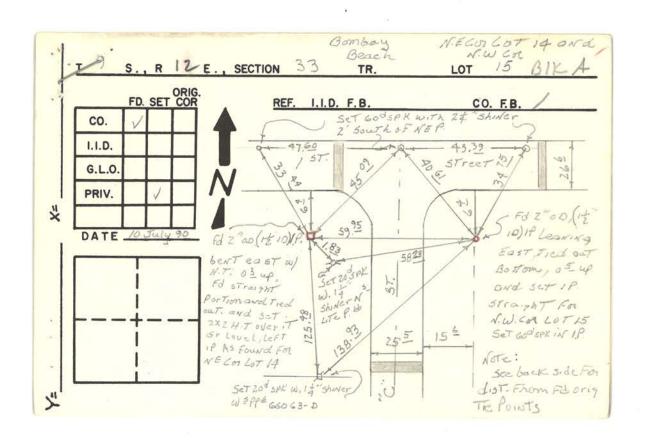
April 2021

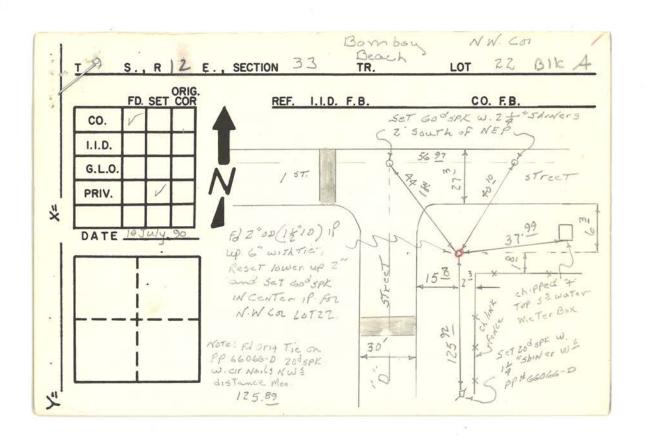
County of Impe	rial Permit Number/Project N	ame			
THE SERVICE SURVEYING) RECORD (OR SURVEYORS'	UING A NOTICE OF COME OF A PROFESSIONAL L. WHO WILL BE RESPONSII RECORD OF SURVEY) TO ACT, IF APPLICABLE. THE MONUMENTS THAT ARE	AND SURVEYOR (OR BLE FOR MONUMENT I O THE COUNTY SURV PERMITTEE IS RESPON	CIVIL ENGINEE RESTORATION A EYOR AS REQUISIBLE FOR THE	ER AUTHORIZED T AND WHO SHALL F UIRED BY THE PR E COST OF RESTOR	O PRACTICE LAND PROVIDE A CORNER OFESSIONAL LAND
	(REFERENCE SECTION 8°	771 OF THE CALIFORNI	A BUSINESS AN	ID PROFESSIONS C	ODE)
***** <u>THIS</u>	FORM TO BE COMPLETE	ED BY A PERSON AUT	HORIZED TO P	RACTICE LAND S	URVEYING *****
	NTS AND/OR CORNER . CTION DID NOT DISTURB (
NAME	P.L.S./R.C.E.	SIGNATURE	DATE	(SEAL)	
PERMITTEI set to perpeti	NT(S) AND/OR CORNER D CONSTRUCTION. A new rule the original location of the little of the County	monument(s) was set in the e disturbed or destroyed m	surface of the new onument(s) and a	w construction or a wi post-construction corr	tness monument(s) was
FILED CORNE	ER RECORD#	OR FILED RECORI	OF SURVEY#_		
NAME	P.L.S./R.C.E.	SIGNATURE	DATE	– (SEAL)	

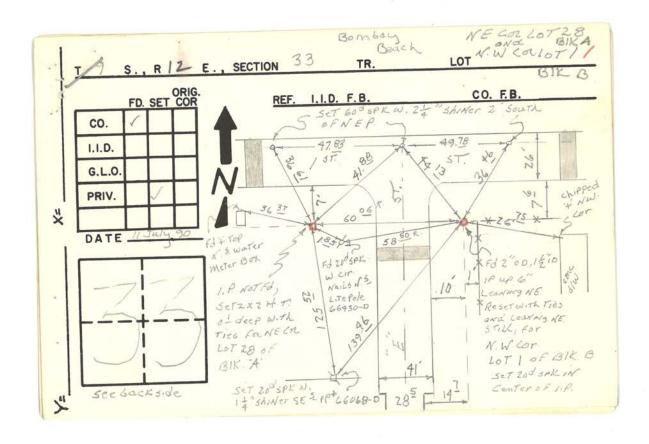


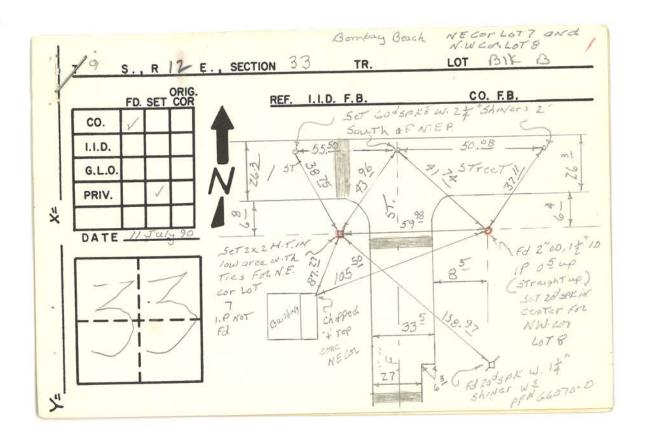


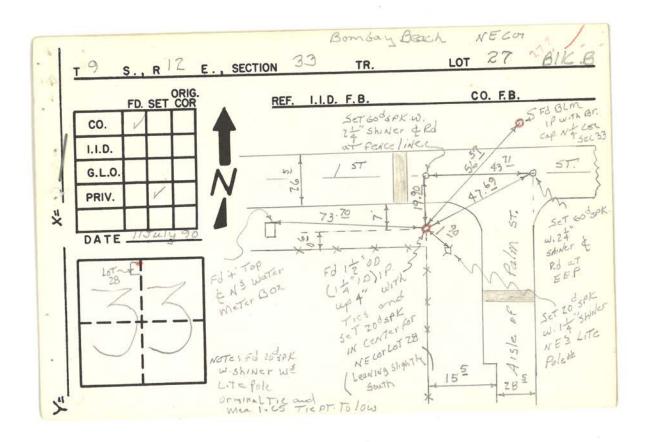


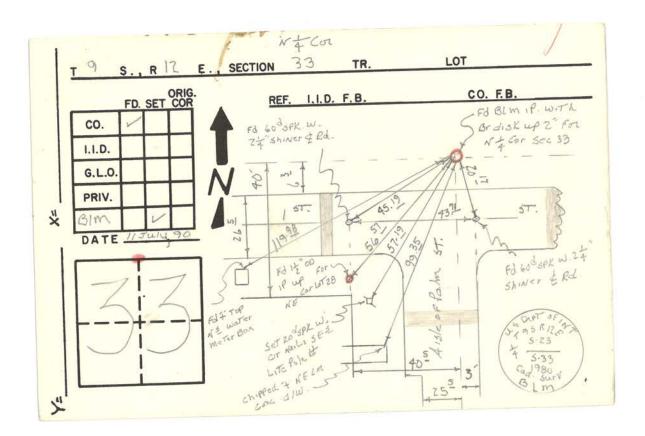




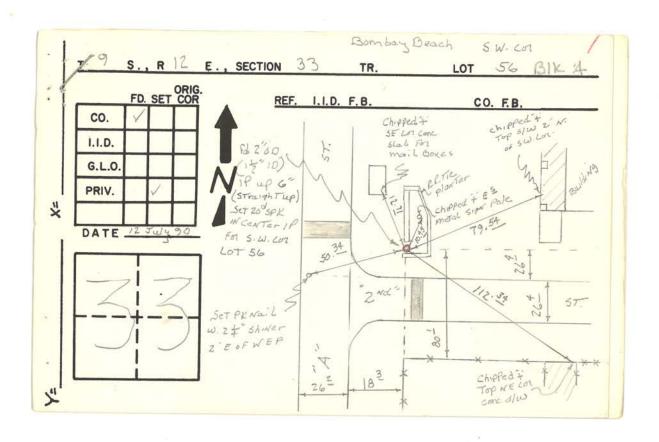


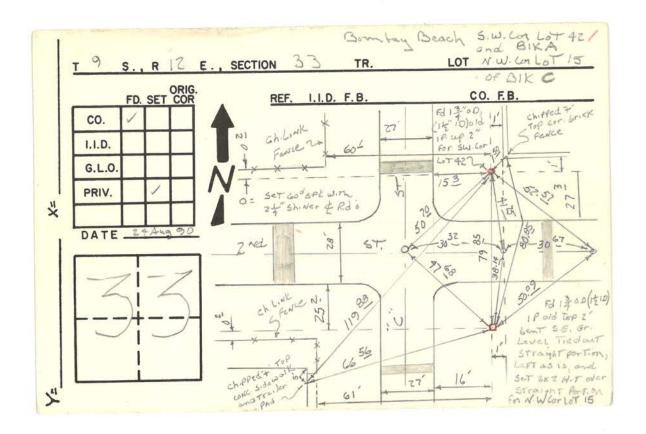


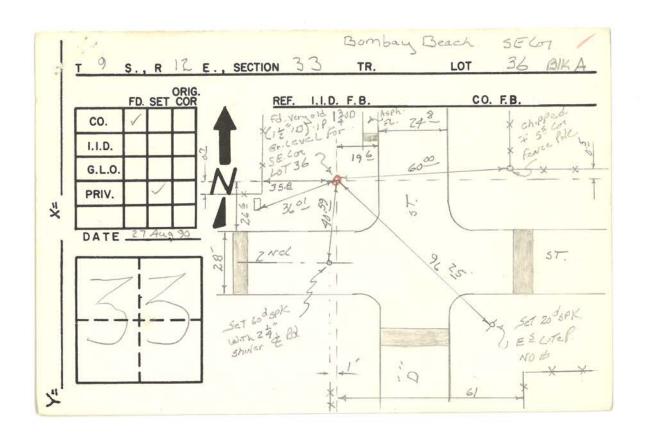


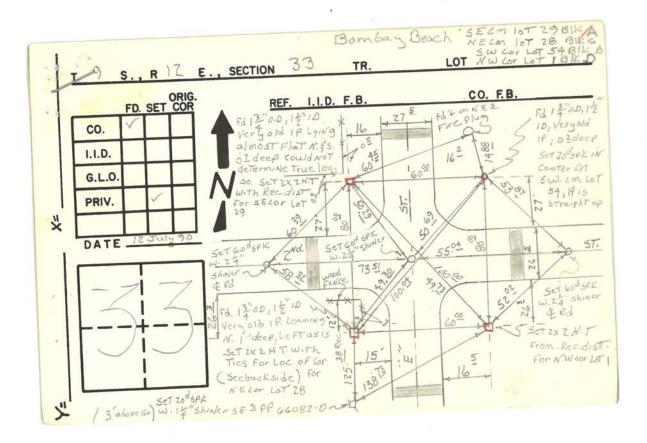


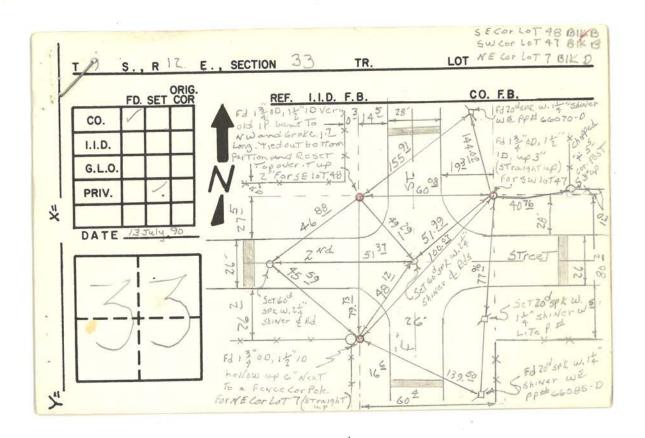
l.

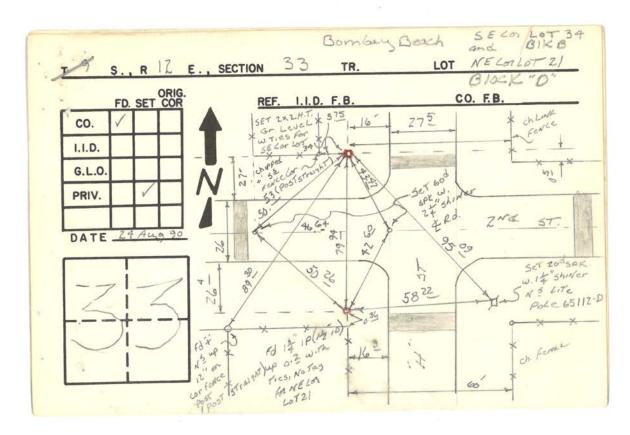


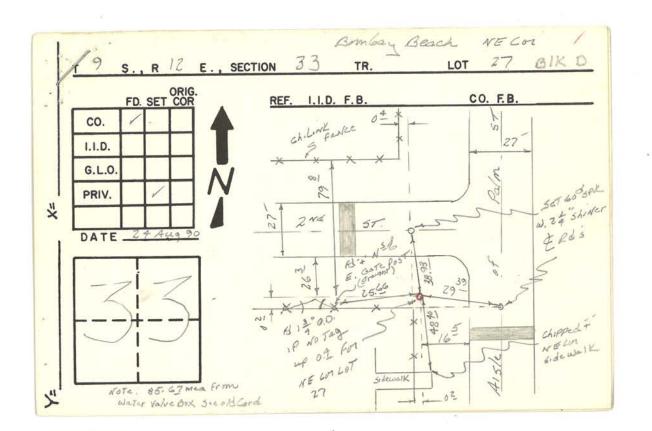




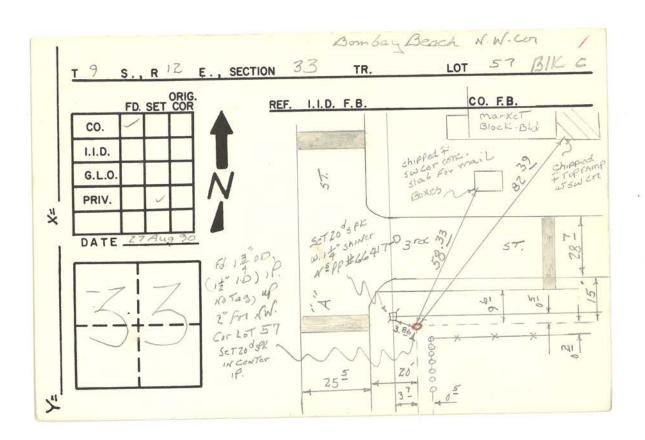


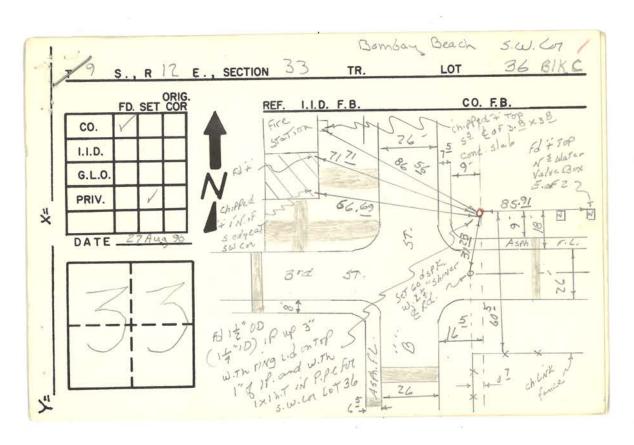


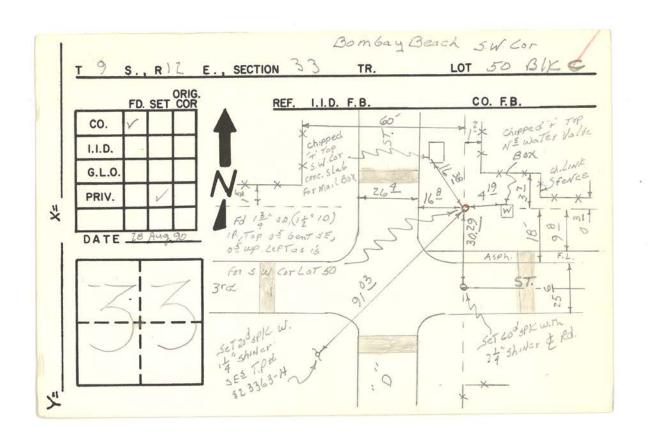


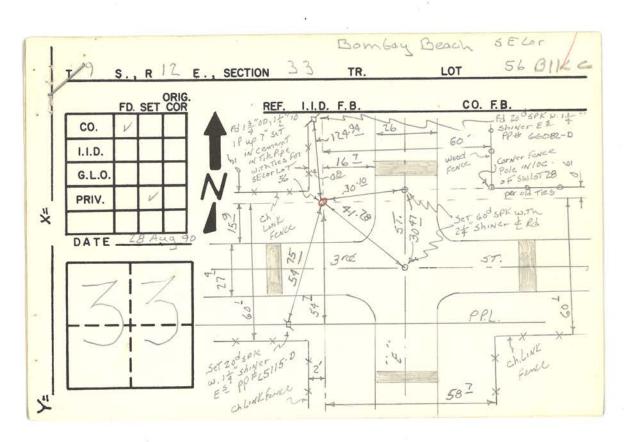


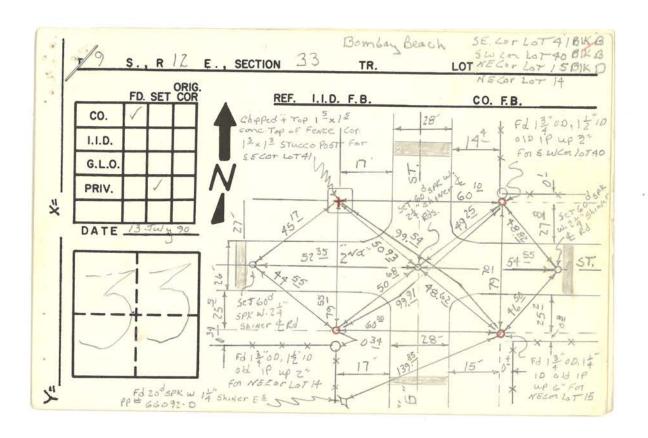
....

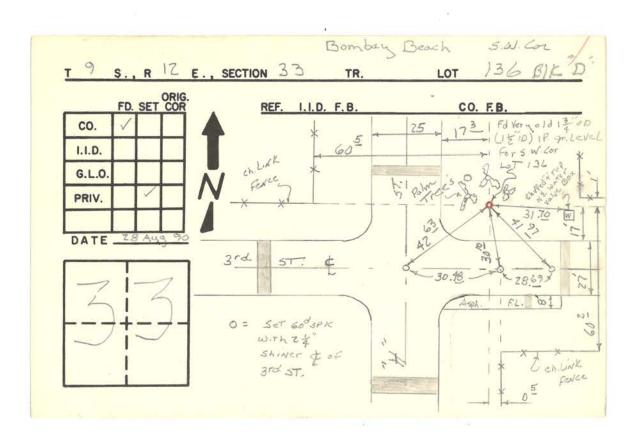


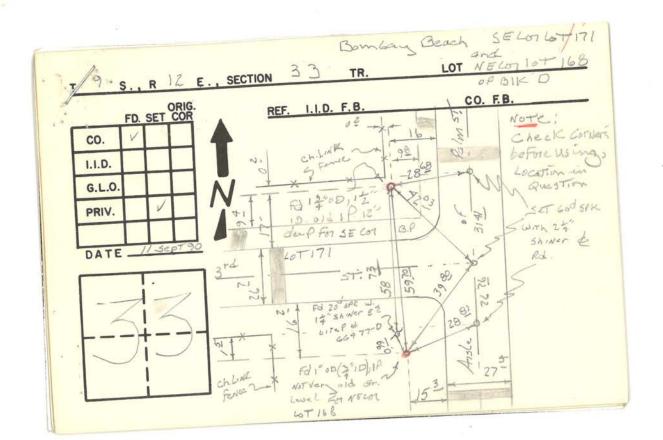


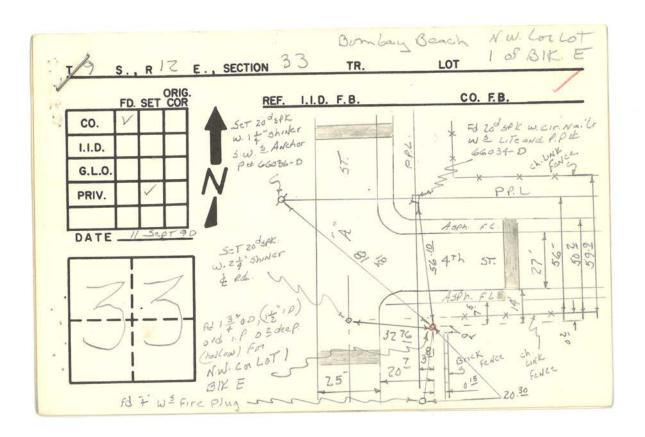


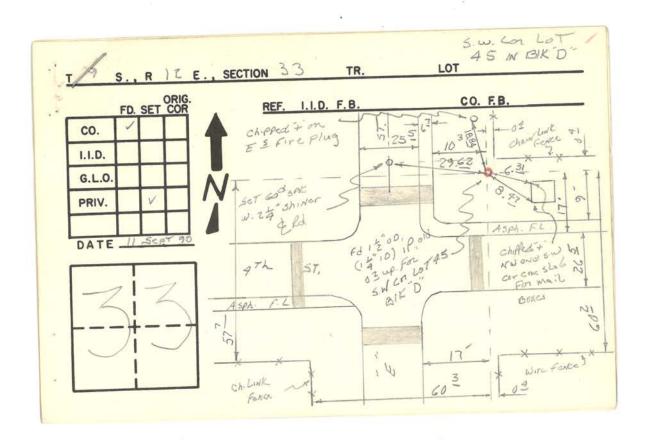


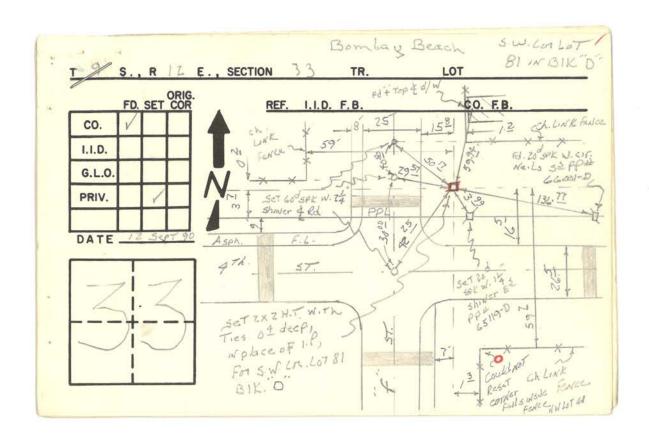


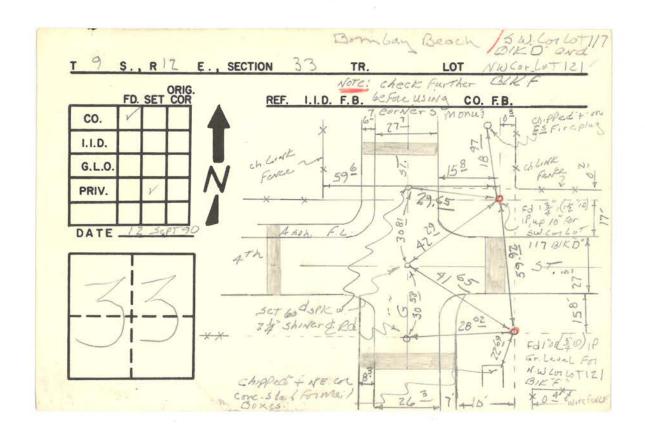


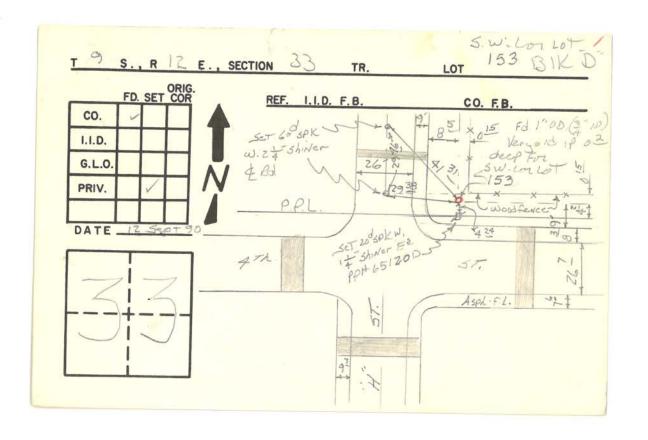


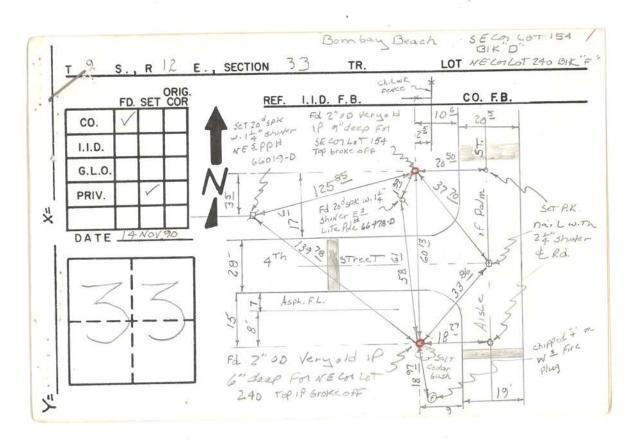


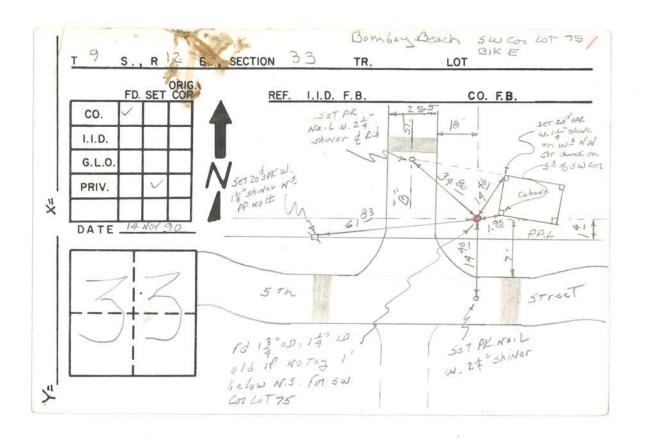


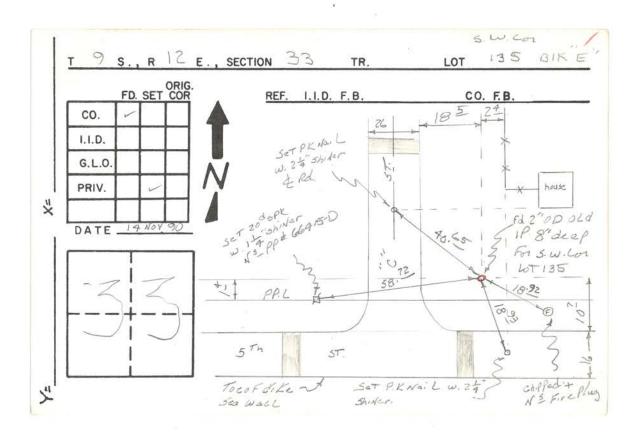


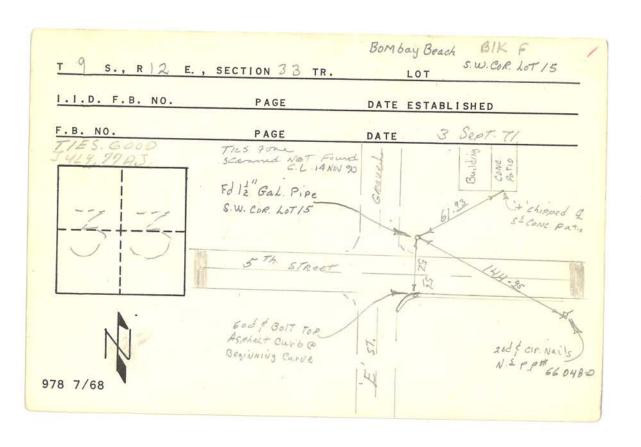


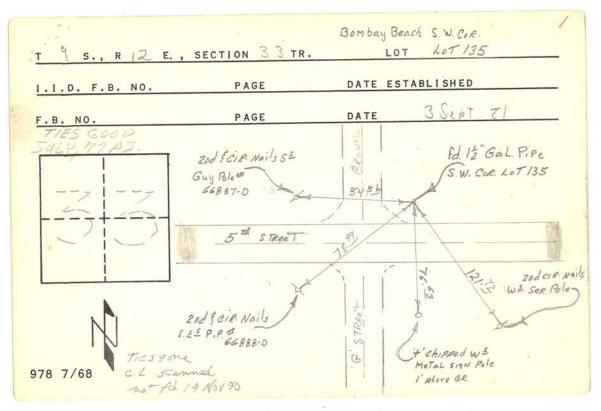








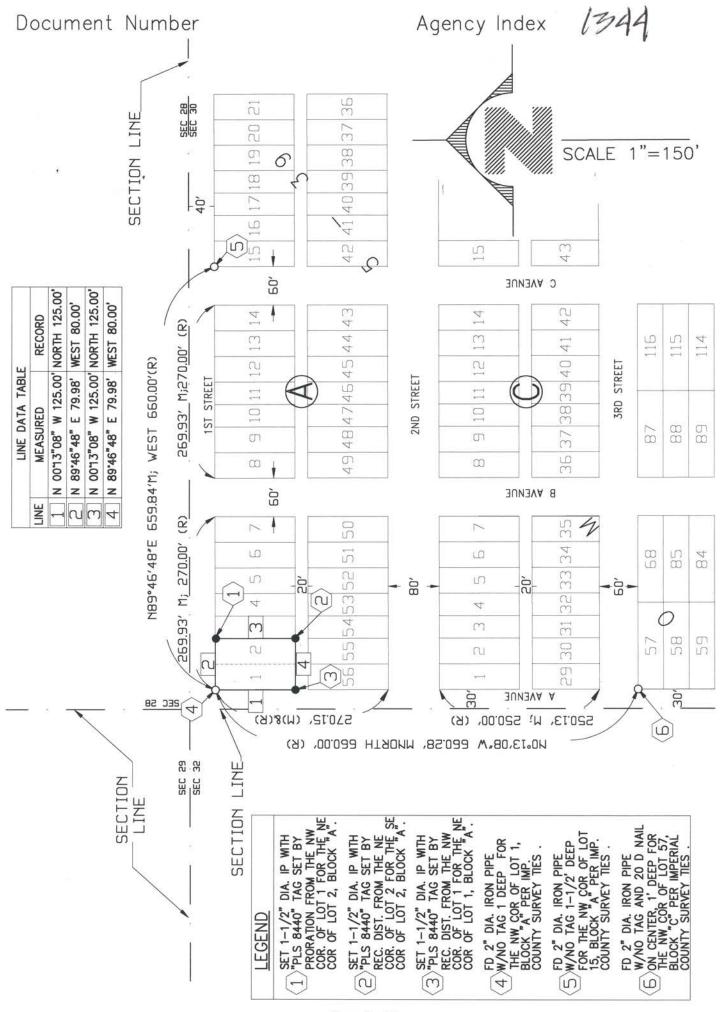




CORNER RECORD

Agency Index **Document Number** City of BOMBAY BEACH County of **IMPERIAL** California Brief Legal Description LOT 1 OF BLOCK A PER OM 5-39, SECTION 33, T9S, R12E **CORNER TYPE COORDINATES (Optional)** Government Corner Control Elevation Metric U.S. Survey Foot X Meander Property Units Rancho Other Horizontal Datum Zone Epoch Date 06-25-2019 Date of Survey Vertical Datum Complies with Public Resources Code §§ 8801-8819 Complies with Public Resources Code §§ 8890-8902 PLS Act Ref.: 8765(d) 8771 8773 Other: Left as found Established Rebuilt Pre-Construction Corner/ Monument: X Reestablished Found and tagged Referenced Post-Construction Narrative of corner identified and monument as found, set, reset, replaced, or removed: See sheet #2 for description(s):

1. SET NE CORNER OF LOT 2, BLOCK "A" PER OM 5-39 BY PRORATION BETWEEN FOUND MONUMENTS FOR NW CORNER LOT 1 AND NW COR LOT 15 OF SAID BLOCK "A". 2. SET SW CORNER OF LOT 1, BLOCK "A" PER OM 5-39 PER RECORD DISTANCE BETWEEN FOUND MONUMENTS FOR NW COR LOT 1, BLOCK "A" AND NW CORNER LOT 57, BLOCK "C" OF OM 5-39. 3. SET SE COR LOT 2, BLOCK "A" PER OM 5-39 WITH RECORD DISTANCE FROM THE NE CORNER OF SAID LOT 2 PER OM 5-39 AND PARALLEL TO THE WEST LINE OF LOT 1, BLOCK "A" OF OM5-39. SURVEYOR'S STATEMENT This Corner Record was prepared by me or under my direction in conformance with 07-18-2019 the Professional Land Surveyors' Act on MAURICIO LAM 8440 Signed P.L.S. or R.C.E. No. **COUNTY SURVEYOR'S STATMENT** This Corner Record was received and examined and filed P.L.S. or R.C.E. No. 8759 Signed PROF COUNTY SURVEYOR Title County Surveyor's Comment No. 8759



Page 2 of 2