

# **INFORMATION HANDOUT**

**For Contract No. 11-403204**

**At 11-SD-67-R4.6/19**

**Identified by**

**Project ID 1100000545**

## **MATERIALS INFORMATION**

Water Source Letter, June 6, 2016

Foundation Report, May 2, 2016

Read Me File for Electronic Files

## Dispenzieri, Mike V@DOT

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**From:** Dispenzieri, Mike V@DOT  
**Sent:** Monday, June 06, 2016 2:13 PM  
**To:** Dispenzieri, Mike V@DOT  
**Subject:** FW: SR-67: Request from Caltrans for Water Availability  
**Attachments:** application for temporary construction meter.pdf

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**From:** Ricardo Soto [<mailto:rsoto@rmwd.org>]  
**Sent:** Monday, June 06, 2016 12:34 PM  
**To:** Pulgarin, Johan M@DOT <[johan.pulgarin@dot.ca.gov](mailto:johan.pulgarin@dot.ca.gov)>  
**Cc:** 'Maxi Moore' <[mmoore@rmwd.org](mailto:mmoore@rmwd.org)>  
**Subject:** RE: SR-67: Request from Caltrans for Water Availability

Mr. Pulgarin,

I can be your point of contact for this project.

The contractor can obtain a construction meter from the District office by completing the attached application form and submitting the required deposit. Application is also available on the District's website at [www.rmwd.org](http://www.rmwd.org).

Availability of the 6,413 gallons between November 2016 and march 2017 will not be a problem.

Hope this help, please let me know if you have any questions or need any additional information.

Regards,

Ricardo Soto, P.E., LEED Green Associate  
Ramona Municipal Water District  
Engineering Department  
105 Earlham St.  
Ramona, CA 92065  
T:(760) 788-2260  
F:(760) 788-2202

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**From:** Pulgarin, Johan M@DOT [<mailto:johan.pulgarin@dot.ca.gov>]  
**Sent:** Monday, June 06, 2016 12:25 PM  
**To:** [rsoto@rmwd.org](mailto:rsoto@rmwd.org)  
**Cc:** [mtowne@rmwd.org](mailto:mtowne@rmwd.org)  
**Subject:** SR-67: Request from Caltrans for Water Availability

Good morning Ricardo,

I was given your name by one of our Landscape Architects as my point of contact for the Ramona Water District.

I'm requesting water availability for an upcoming safety project on SR-67. The amount of water needed was calculated at 6,413 gallons. The water will be used for the construction of the Maintenance Vehicle Pullouts (MVPs) proposed within the scope of the project (See attached memo request).

Since the total amount of water is small, it is unlikely the contractor will tap into Ramona's source; however, I needed to provide you with this information as it is part of our procedures for all projects. I'm asking for a last minute concurrence that water will be available from Nov. 2016 to March 2017. A response to this email will suffice.

If you have any questions or need additional information, please contact me directly. If you are not my point of contact, could you please guide me in determining who I need to contact.

Your prompt response is greatly appreciated.

Johan Pulgarin | P.E.  
Project Engineer  
California Department of Transportation  
Traffic Operations - District 11  
Office: 619.688.6103  
Fax: 619.688.6644  
[johan\\_pulgarin@dot.ca.gov](mailto:johan_pulgarin@dot.ca.gov)

## CONSTRUCTION METER POLICY

A construction meter is any meter connected to a fire hydrant for temporary use (typically a 3-inch turbine hydrant meter). Application for temporary construction meter service shall be made 24 hours prior to need.

1. A security deposit of \$1,200.00 to cover damages or loss to the meter and the fire hydrant connection will be held by the District for each construction meter issued.
2. Payment of all fees will be in advance. Cost of use and service of a construction meter will be based on the actual cost to the District for staff and equipment.
3. Administrative and setup fee is \$20.00.
4. Daily rental rate is \$1.75 or \$52.50 for 30 days use. If the meter is used less than 30 days, a prorated refund will be made in the absence of any other outstanding charges.
5. Damages to a repairable construction meter will be charged to the user at the District's current rate for time and materials, plus 15% overhead to cover administrative costs.
6. If the meter is lost or stolen the user will be required to reimburse the District for the actual cost of a new construction meter.
7. Water usage will be charged at the current special project rate per 100 cubic feet.
8. The construction meter must be brought to the District's Main Office between 7:30 AM and 4:00 PM for reading and examination monthly. **THEY MUST BE BROUGHT IN BY THE LAST WEDNESDAY OF EACH MONTH OR THE USAGE WILL BE ESTIMATED.** If the meter is not returned at the designated time, construction meter privileges may be revoked.

### PERMIT PROVISION:

1. Construction meters may not be used for delivery of water outside of District boundaries without written consent of the General Manager, with the exception of verifiable fire fighting water use.
2. Water drawn through a construction meter for interim household use is forbidden at all times. It cannot be used for agricultural purposes or to fill up lakes, ponds, and/or swimming pools.
3. Responsible party must comply with requirements of all RMWD Ordinances and policies in effect at the time of application, subject to change with thirty day notice.
4. The district reserves the right to terminate temporary water service at any time, without notice, in matters of misuse, harm to district facilities, interference with the public water supply, failure to notify of any change in use or any failure to comply with other provisions of the policy.

I have read and received a copy of these procedures:

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
DATE

**APPLICATION FOR TEMPORARY CONSTRUCTION METER  
RAMONA MUNICIPAL WATER DISTRICT**

I hereby apply for the use of a temporary construction meter. I understand that this meter is to be used as a temporary alternate source of water for construction purposes. I understand and agreed to the established District guidelines pertaining to construction meter use and they will be followed at all times.

Conditions of service:

1. Meter is to be connected to authorize water source.
2. Approved spanner hydrant wrenches shall be used to turn on fire hydrant.
3. Customers must furnish meter outlet adapters, compatible to NSFT threads.
4. All water trucks shall be equipped with suction-break filling system.
5. Customer is responsible for all water delivered through their assigned meter.
6. Construction meter is not to be used as a substitute for domestic water source; for agricultural purposes; or to fill lakes, ponds and/or swimming pools.
7. Water is not to be used outside District boundaries.
8. I understand that I may not take water from any authorized source except through the temporary construction meter. I further understand that if I take water without using the meter, RMWD will immediately confiscate my temporary meter and I will forfeit my full security deposit. I also understand that taking water without using the temporary meter may subject me to criminal prosecution in addition to the loss of my meter and deposit.
9. **I will deliver the meter to be read by district staff each month before the last Wednesday of the month.**

Any problem with the operation of the meter is to be reported to the District for repair or replacement. Customer/user will not dismantle, repair, or tamper with the meter or service. Any action deemed appropriate to correct violations related to the use of a construction meter may be taken by District staff; including, but not limited to: written notifications, forfeiture of deposit and/or meter, and/or refusal of future requests for the use of a construction meter.

Deposits and fees:

A security deposit will be collected and retained without interest to cover the loss or damage of the meter and connecting service. A monthly fee will require in addition to the deposit, when the meter is used less than one month the fee will be prorated. An account set-up fee will be collected with the deposit and first month's fee at the time of application. All water used will be charged at the current rate established for Special Projects. Any unpaid charges owed to the District will be deducted from the security deposit when the account is closed. Amounts unpaid in excess of the deposit will be billed to the customer applying for the temporary construction meter. Refunds will be made in accordance with District policy.

I have read and understand the terms of this agreement for the use of a temporary construction meter and am aware of, and understand the Ordinances, Resolutions and Policies of the Ramona Municipal Water District as they apply to this agreement. I agree to comply will the terms of this agreement.

(Please print name and address, as it is to appear on account)

Name: \_\_\_\_\_

Billing Address \_\_\_\_\_

Telephone: \_\_\_\_\_ Contact Person \_\_\_\_\_

Print Name \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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Total amount paid \$ Receipt No. \_\_\_\_\_ By \_\_\_\_\_ Date \_\_\_\_\_  
Deposit \$ 1,200.00  
Set up fee \$ 20.00 Account No. \_\_\_\_\_  
Monthly fee \$ 52.50  
TOTAL \$1,272.50

**ISSUE INFORMATION** Meter No. \_\_\_\_\_ Read \_\_\_\_\_ Type \_\_\_\_\_ Size \_\_\_\_\_

Issued by \_\_\_\_\_ Date \_\_\_\_\_

**RETURN INFORMATION** Received by \_\_\_\_\_ Date \_\_\_\_\_ Read \_\_\_\_\_

**CLOSING INFORMATION** Last Bill Date \_\_\_\_\_ Stop Date: \_\_\_\_\_ Closing Date \_\_\_\_\_ By \_\_\_\_\_

Constmt1

Memorandum

*Serious drought.  
Help save water!*

To: Mr. Johan Pulgarin  
Project Engineer  
District 11  
Traffic Project Development

Date: May 2, 2016

File: 11-SD-67-R4.6/19.0  
EA 11-40320  
EFIS 1100000545

From: JEFF TESAR  
Engineering Geologist  
Office of Geotechnical Design-South, Branch-B

Subject: **Foundation Report for the Three Changeable Message Signs and Five Closed Circuit Television Cameras on State Route 67.**

**1.0 INTRODUCTION**

Pursuant to your request, the Office of Geotechnical Design South (OGDS) Branch-B prepared this Foundation Report (FR) to address the geotechnical design and construction considerations for three Changeable Message Signs (CMS) and five Closed Circuit Television Systems (CCTV) at six locations along State Route 67 (SR-67.) as shown in the attached plan sheet. The CMS are also referred to as Advanced Variable Message Sign (AVMS). The proposed features are presented in the table below. This table also includes borings drilled for each location.

Site	Approx. Station "11-SD-67" Line	Approx . Offset (ft)	Proposed Feature	Foundation	Boring
Winter Garden Blvd. Rt.	287+58	75 Rt.	AVMS Truss Single Post Model 710	Pile: L = 28ft, D = 5ft	A-16-001
			CCTV Post	Pile: L = 7ft, D = 2.5ft	
Winter Garden Blvd. Lt.	288+18	150 Lt.	CCTV Post	Pile: L = 7ft, D = 2.5ft	A-16-002
Scripps Poway Pkwy	714+80	20 Rt.	CCTV Post	Pile: L = 7ft, D = 2.5ft	A-16-003
Platinum Place	747-53	53 Lt.	AVMS Truss Single Post Model 710	Pile: L = 22ft, D = 5ft	A-16-004
North of Iron Mtn. Road	769+85	35 Rt.	AVMS Truss Single Post Model 710	Pile: L = 22ft, D = 5ft	A-16-005
	768+35	35 Rt.	CCTV Post	Pile: L = 7ft, D = 2.5ft	
Poway Road	805+70	46 Lt.	CCTV Post	Pile: L = 7ft, D = 2.5ft	A-16-006

The purpose of this FR is to document subsurface geotechnical conditions, provide engineering evaluation of site conditions, and provide recommendations relevant to the design and construction of the foundations. This report also establishes a geotechnical baseline to be used in assessing the existence and scope of changed site conditions.

This FR was prepared in accordance with the guidelines set forth in the *Caltrans: Foundation Report Preparation for Standard Plan Overhead and Changeable Message Signs, October 2014*. The project plans were provided by District 11 Office of Traffic Project Development.

## 2.0 FIELD INVESTIGATION

A subsurface investigation program was conducted by OGDS in April of 2016. Six exploratory hollow stem auger borings utilizing 5T carbide insert finger bit were conducted at the locations of the proposed foundations. The depth of the borings corresponded with the length of the foundation pile for the proposed structures. The Log of Test Borings (LOTB's) are attached to this report. Boring locations are depicted in the attachments.

## 4.0 LABORATORY TESTING

Corrosion testing was conducted on one sample collected from each boring. The test results are attached to this report.

## 5.0 GEOLOGY

The subsurface soil conditions for each location are described below.

### *Winter Garden Blvd. Rt.*

This site is underlain by the layer of fill materials that in turn is underlain by alluvial soils. The interface between fill and native soils was logged to be at the depth of 4.5 feet. The fill consists of sands with little gravels. Alluvium consists of loose to medium dense sands.

### *Winter Garden Blvd. Lt.*

This site is underlain by the fill materials. The fill consists of medium dense sands

### *Scripps Poway Pkwy.*

This site is underlain by the layer of fill materials that in turn is underlain by the bedrock. The interface between fill and bedrock was logged to be at the depth of 2.0 feet. The fill consists of gravels and sands. The bedrock is moderately weathered and moderately hard metamorphic, (metavolcanic and metasedimentary) rocks.

### *Platinum Place.*

This site is underlain by the layer of residual soils of the metamorphic origin that in turn is underlain by the bedrock. The residual soils consist of very dense sands, locally indurated. The bedrock is moderately weathered and hard metamorphic (metavolcanic) rocks.

### *North of Iron Mtn. Road*

This site is underlain by the layer of fill materials that in turn is underlain by bedrock. The interface between fill and bedrock was logged to be at the depth of 2.0 feet. The fill consists of gravels, sands and cobbles. The bedrock is intensely to moderately weathered and moderately soft to moderately hard metamorphic, (metavolcanic) rocks.

### *Poway Road*

This site is underlain by very dense gravels, sands, and cobbles

## **6.0 Soil Strength**

The soils at all locations, except Winter Garden Blvd Rt satisfy minimum soil strength criteria utilized in standard pile design. At the location of Winter Garden Blvd Rt, the apparent density for about 12 feet thick top layer was found to be loose, suggesting that this layer does not meet the minimum soil strength criteria.

## **7.0 Ground Water**

Groundwater was not encountered during the subsurface field investigation. Consequently, groundwater is not anticipated to impact this project design and construction.

## **8.0 CORROSION**

The Caltrans Corrosion Guidelines state that if the minimum resistivity is greater than 1000 Ohm-cm, the soil sample is considered to be non-corrosive and testing to determine sulfate and chloride concentration is not performed. Caltrans currently considers a site to be corrosive to foundation elements if one or more of the following conditions exist: Chloride concentration is greater than or equal to 500-ppm, sulfate concentration is greater than or equal to 2,000 ppm, or the pH is 5.5 or less. The laboratory test results indicate that at all locations the soils are not corrosive.

## **9.0: LIQUEFACTION**

At four of the six proposed AVMS and CCTV sites, groundwater is not present within 50 feet of the ground surface and the sites are underlain by granitic or metavolcanic bedrock. There is no liquefaction potential at those four sites.

The two proposed AVMS and CCTV sites adjacent to Winter Garden Boulevard will be located on embankment fill within an alluvial valley. Archived LOTB indicate that some loose to slightly compact alluvial sands occurs within 50 feet of the ground surface. However, groundwater was not encountered during the 1964 bridge foundation investigation that extended to depths greater than 70 feet below the alluvial plane. The liquefaction potential of the sites adjacent to Winter Garden Boulevard are therefore estimated to be low.

## **10.0 FOUNDATION RECOMMENDATION**

- For the locations Platinum Place and North of Iron Mountain Road, the proposed Truss Single Post traffic signs may be supported by a standard plan CIDH pile foundation shown on Standard Plans S8. Pile diameter is 5.0 feet, and the length is 22 feet.

- For the location Winter Warden Boulevard Rt, the proposed Truss Single Post traffic signs may be supported by a standard plan CIDH pile foundation shown on Standard Plans S8. Pile diameter is 5.0 feet. However, to compensate for the insufficient soil strength of the subsurface soils, the length of this standard pile should be increased by 6.0 feet, thus, the length of the pile is 28.0 feet.
- The proposed Closed Circuit Television Systems poles may be supported by a standard plan CIDH pile foundations shown on Standard Plans ES-16B. Pile diameter is 2.5feet, and the length is 7.0 feet (Standard Plans, 2010.)

## 11.0 CONSTRUCTION CONSIDERATION

- Pile drilling equipment capable of shaft excavation in the soil conditions described in Section 5.0 and in the LOTB's should be utilized.
- Ground water is not anticipated to affect pile construction.
- The condition of the bedrock such as its fracturing could not be observed/determined in auger borings. Therefore, the observation of outcrops or road cuts in the vicinity of the proposed structure locations should provide this information.

## 12.0 DIFFERING SITE CONDITIONS

The recommendations contained in this report are based on specific project information regarding structure type and locations that have been provided to OGDS. If any conceptual changes are made during final project design, OGDS should review those changes to determine if these foundation recommendations are still applicable.

The information used to characterize the geotechnical conditions in this area was gathered from project plans, pertinent maps, geologic literature, archived reports, field reconnaissance, subsurface investigation, testing, and engineering analysis. Project design features may change, and localized soil conditions encountered during construction and excavation may vary from those described in this report. If suspected differing site conditions are encountered during construction, or if construction difficulties related to soil conditions are encountered, a representative of OGDS should be consulted to assist with the assessment of the prevailing geotechnical conditions and to assist in formulating appropriate strategies to facilitate project completion.

May 2, 2016

Foundation Report  
Three Overhead Message Signs and Five CCTV Posts on SR-67  
EA: 11-40320  
BFIS: 11000545

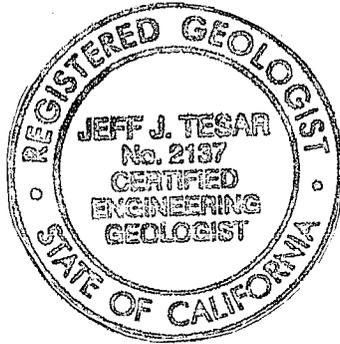
ODDS staff will be available for future assistance. Should you have any questions or comments regarding this report, please contact Jeff Tesar at (8585) 467-2716.



Jeff Tesar, C.E.G.  
Engineering Geologist  
Office of Geotechnical Design-South Branch B



Brian Hinman, P.E.  
Senior Transportation Engineer (Civil)  
Office of Geotechnical Design-South Branch B



**Attachments:**

1. Project Location
2. Boring Locations
3. Log of Test Borings
4. Laboratory Test Results

**CC:**

- Charles Gray  
• Al Ochoa  
• Geotechnical Archive (GeoDog)
- Project Manager  
District Materials Engineer

May 2, 2016

Foundation Report  
Three Overhead Message Signs and Five CCTV Posts on SR-67  
EA: 11-40320  
EFIS: 110000545

## ATTACHMENTS

CORROSIVITY TEST RESULTS					
Exploration	Sample Depth (ft)	Minimum Resistivity (ohm-cm)	pH	Sulfate Content (ppm)	Choloride Content (ppm)
A-16-001	5 to 10	10,285	7.9	46	242
A-16-002	5 to 10	8,784	7.5	55	40
A-16-003	2 to 6	2,812	7.6	53	54
A-16-004	5 to 10	11,351	7.6	40	35
A-16-005	5 to 10	1,992	7.2	58	54
A-16-006	5 to 10	11,115	7.4	42	36

Project: SR-67 CCTV and AVCMS

Date: 5/2/2016

Location: San Diego County

Test Method: Sulfate Content: CT-417

Chloride Content: CT-422

Sample Type: Bulk

Resistivity and pH: CT-643



PREP'D BY:  
MM  
APP'D BY:  
MP  
DATE:  
5/4/15  
DWS FILE:

**CORROSION TEST RESULTS**

SR-67 CCTV AND AVCMS PROJECT  
San Diego County

PLATE

PLATE 1

PROJECT No.

04.61160004, Task Order 3

INDEX OF PLANS

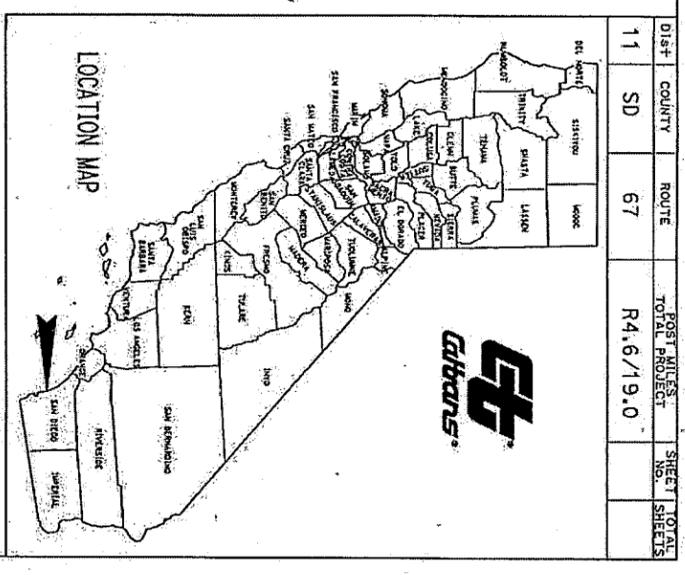
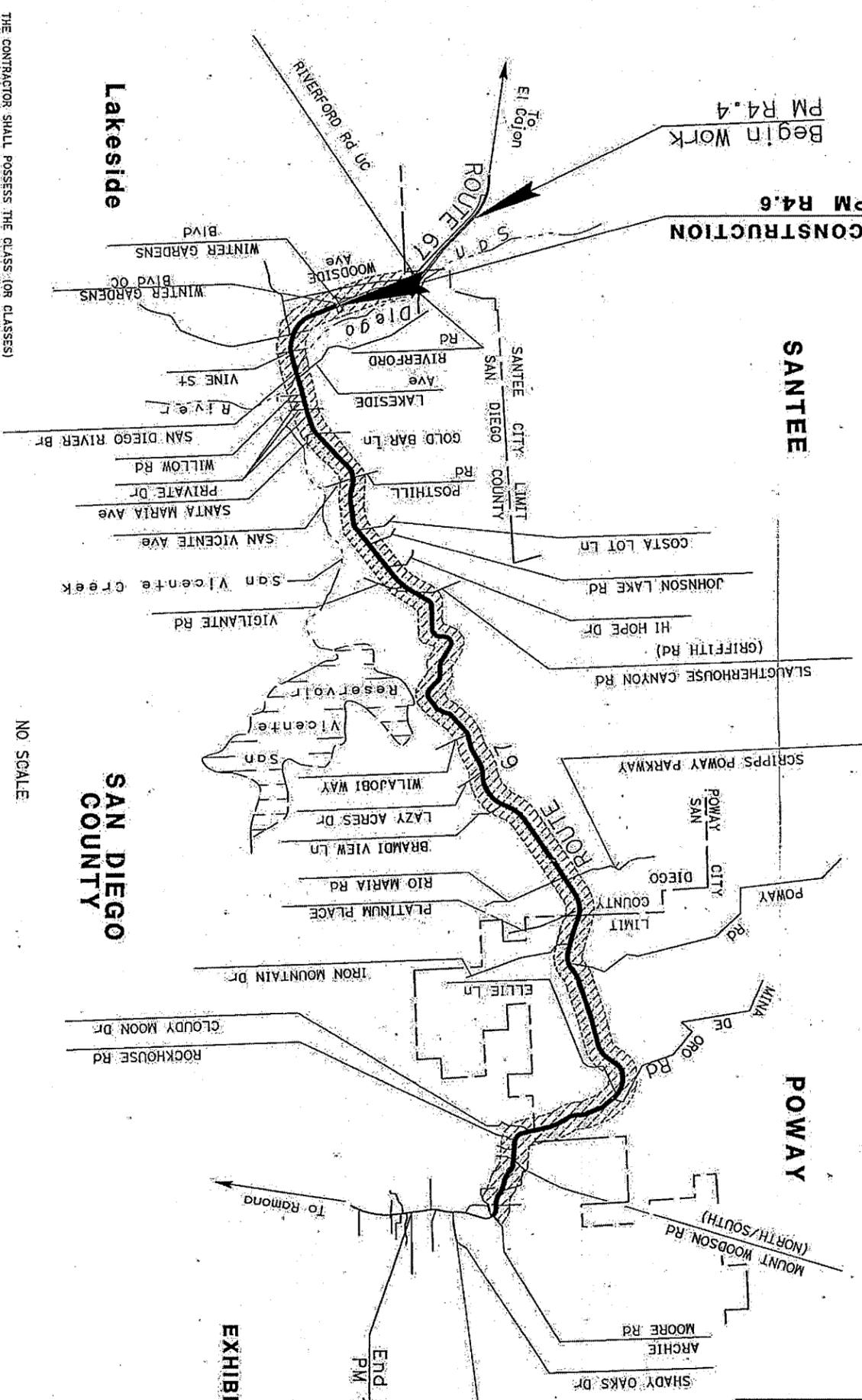
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON  
**STATE HIGHWAY**  
 IN SAN DIEGO COUNTY  
 IN AND NEAR POWAY  
 FROM 0.2 MILES SOUTH OF WINTER GARDENS BOULEVARD  
 TO SHADY OAKS DRIVE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY, 2005



DESIGN ENGINEER J. PULGARIN	PROJECT MANAGER R. ESTRADA
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	67	R4,6/19.0		

**EXHIBIT 1: PROJECT LOCATION MAP**

REGISTERED PROFESSIONAL ENGINEER  
 J. PULGARIN  
 No. 76894  
 Exp. 12-31-18  
 CIVIL

PLANS APPROVAL DATE: \_\_\_\_\_  
 PROJECT ENGINEER: \_\_\_\_\_  
 REGISTERED CIVIL ENGINEER: \_\_\_\_\_  
 DATE: \_\_\_\_\_

THE STATE OF CALIFORNIA, OR ITS OFFICERS OR AGENTS, SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION ON THIS PLAN SHEET.

CONTRACT No. **11-40320**  
 PROJECT ID **1100000545**  
 PROJECT NUMBER & PHASE **1100000545**

UNIT 2771

DATE PLOTTED → 18-JUN-2015  
 TIME PLOTTED → 10:23

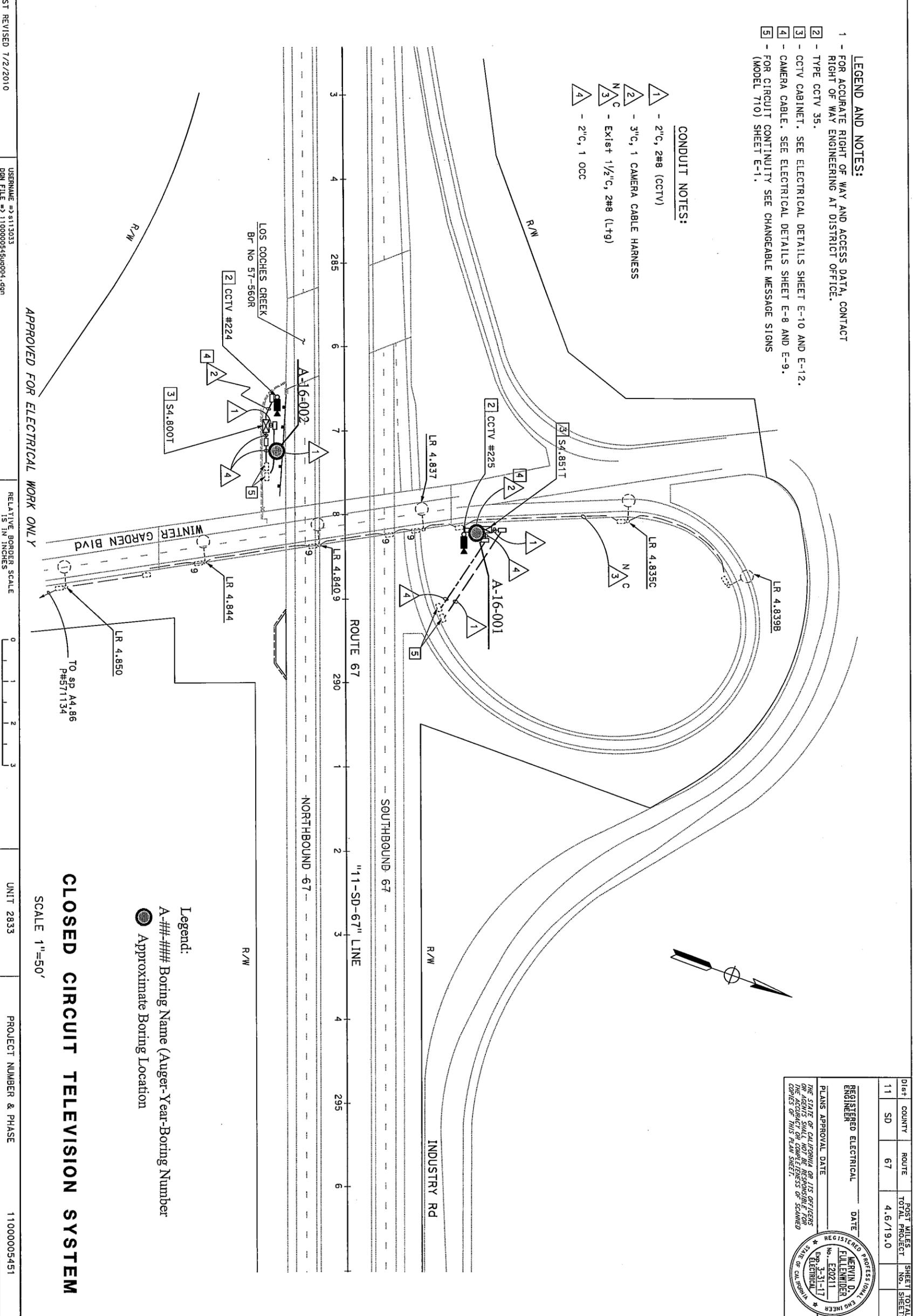
THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."  
 BORDER LAST REVISED 7/2/2010 CALTRANS WEB SITE IS: [HTTP://WWW.DOT.CA.GOV/](http://www.dot.ca.gov/)

NO SCALE  
 RELATIVE HORIZONTAL SCALE 0 1 2 3  
 USENRURE → 11000545.dgn  
 DON FILE # → 11000545.dgn

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	MERVIN FULLENWIDER	REVISED BY	
<b>Caltrans</b> TRAFFIC ELECTRICAL	RAJPREET SINGH	CHECKED BY		DATE REVISED	

- LEGEND AND NOTES:**
- FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.
  - TYPE CCTV 35.
  - CCTV CABINET. SEE ELECTRICAL DETAILS SHEET E-10 AND E-12.
  - CAMERA CABLE. SEE ELECTRICAL DETAILS SHEET E-8 AND E-9.
  - FOR CIRCUIT CONTINUITY SEE CHANGEABLE MESSAGE SIGNS (MODEL 710) SHEET E-1.

- CONDUIT NOTES:**
- 1 - 2" C, 2#8 (CCTV)
  - 2 - 3" C, 1 CAMERA CABLE HARNESS
  - 3 - Exist 1 1/2" C, 2#8 (L+g)
  - 4 - 2" C, 1 OCC



APPROVED FOR ELECTRICAL WORK ONLY

USERNAME => s113033  
 DGN FILE => 1100000545.dgn

RELATIVE BORDER SCALE  
 IS IN INCHES



**CLOSED CIRCUIT TELEVISION SYSTEM**

SCALE 1"=50'

UNIT 2833 PROJECT NUMBER & PHASE 11000005451

**Legend:**

- A-##-### Boring Name (Auger-Year-Boring Number)
- Approximate Boring Location

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS
11	SD	67	4.6/19.0	

REGISTERED ELECTRICAL ENGINEER  
 MERVIN D. FULLENWIDER  
 No. E20211  
 Exp. 3-31-17

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS AND EMPLOYEES MAKE NO WARRANTY AS TO THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

DATE PLOTTED => 01-MAR-2016  
 TIME PLOTTED => 10:08  
 LAST REVISION 02-23-16

Figure Xa. Boring Location Map

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

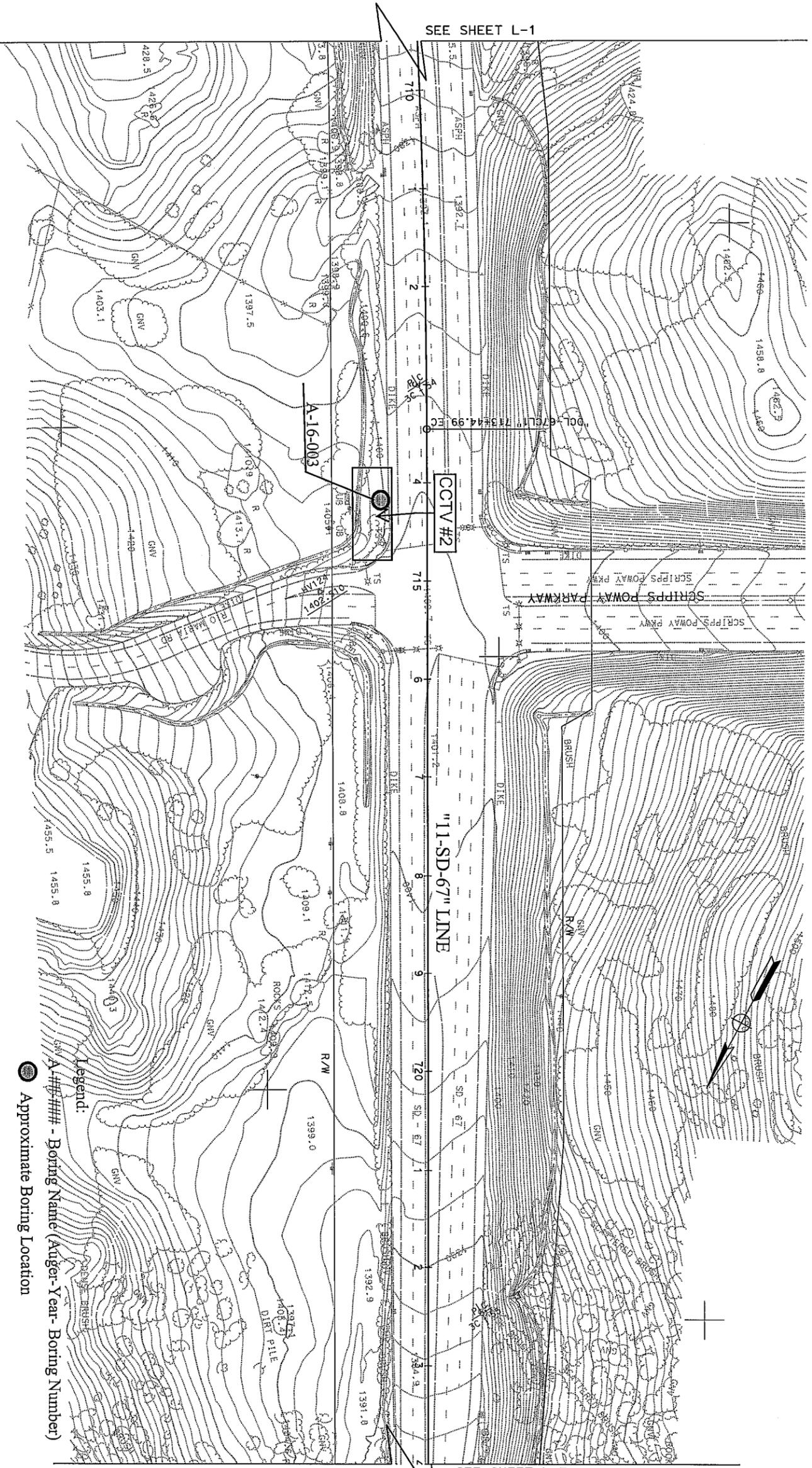
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS
11	SD	67	R4.6/19.0	

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS OR FOR THE CONSEQUENCES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
 JOHN PULGARIN  
 No. 7884  
 Exp. 12/31/15  
 CIVIL  
 STATE OF CALIFORNIA



SEE SHEET L-1

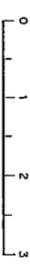
SEE SHEET L-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	H. TRAN	REVISED BY
<b>Caltrans</b>	R. ROBLES	CHECKED BY	J. PULGARIN	DATE REVISED

BORDER LAST REVISED 7/2/2010

USERNAME => s11303  
 DGN FILE => 1100000545.dgn

RELATIVE BORDER SCALE  
 IS IN INCHES



UNIT 2771

PROJECT NUMBER & PHASE

11000005451

SCALE 1"=50'

**Legend:**  
 A-###-### - Boring Name (Auger-Year-Boring Number)  
 ○ - Approximate Boring Location

LAST REVISION	DATE PLOTTED => 26-JAN-2016
12-02-15	TIME PLOTTED => 15:18

Figure Xb: Boring Location Map

NOTE:  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	67	R4.6/19.0		

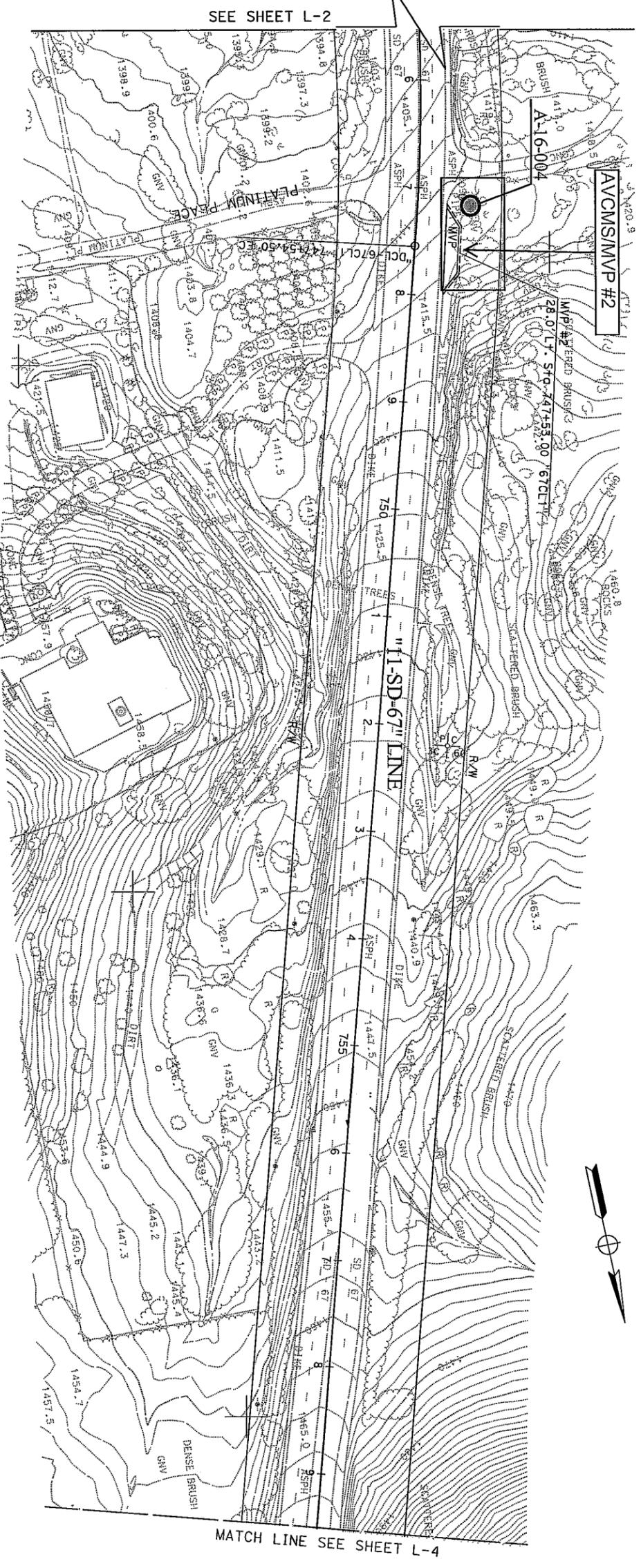
  

REGISTERED CIVIL ENGINEER	DATE
JUAN PULGARIN	12/31/15

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS  
 HAVE REVIEWED THIS PLAN SHEET FOR  
 ACCURACY FOR COMPLETENESS OF SCANNED  
 COPIES OF THIS PLAN SHEET.



Legend:  
 A-##-## - Boring Name (Auger-Year-Boring Number)  
 Approximate Boring Location

SCALE 1"=50'

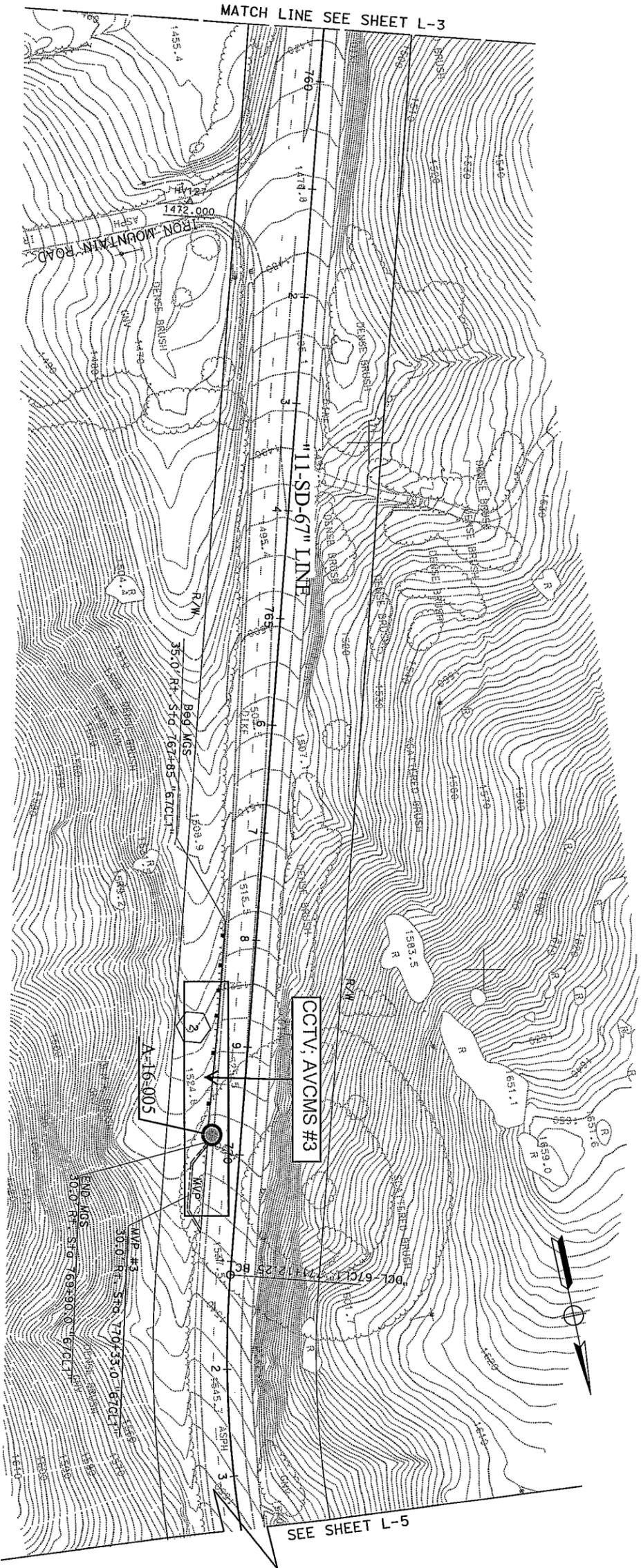
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	H. TRAN	REVISED BY	
	R. ROBLES	CHECKED BY	J. PULGARIN	DATE REVISED	

BORDER LAST REVISED 7/2/2010  
 USERNAME => s113033  
 DGN FILE => 1100000545.dgn  
 RELATIVE BORDER SCALE 15 IN INCHES  
 UNIT 2771  
 PROJECT NUMBER & PHASE 11000005451  
 LAST REVISION 12-02-15  
 DATE PLOTTED => 26-JAN-2016  
 TIME PLOTTED => 15:18

Figure Xc: Boring Location Map

NOTE:  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION <b>Caltrans</b>	FUNCTIONAL SUPERVISOR R. ROBLES	CALCULATED-DESIGNED BY H. TRAN	REVISOR H. TRAN
		CHECKED BY J. PULGARIN	DATE REVISED



DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	67	R4,6/19.0		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY INFORMATION OR DATA SHOWN OR REFERRED TO HEREON UNLESS IT IS SPECIFICALLY STATED OTHERWISE.



Legend:  
 A-##-### - Boring Name (Auger-Year-Boring Number)  
 ○ - Approximate Boring Location



SCALE 1"=50'

UNIT 2771

PROJECT NUMBER & PHASE

11000005451

BORDER LAST REVISED 7/2/2010

USERNAME => s11303  
 DGN FILE => 1100000545aed004.dgn

RELATIVE BORDER SCALE  
 1/5 IN INCHES

LAST REVISION DATE PLOTTED => 26-JAN-2016  
 12-02-15 TIME PLOTTED => 15:18

Figure Xd: Boring Location Map

NOTE:  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET TOTALS
11	SD	67	R4.6/19.0	NO. SHEETS

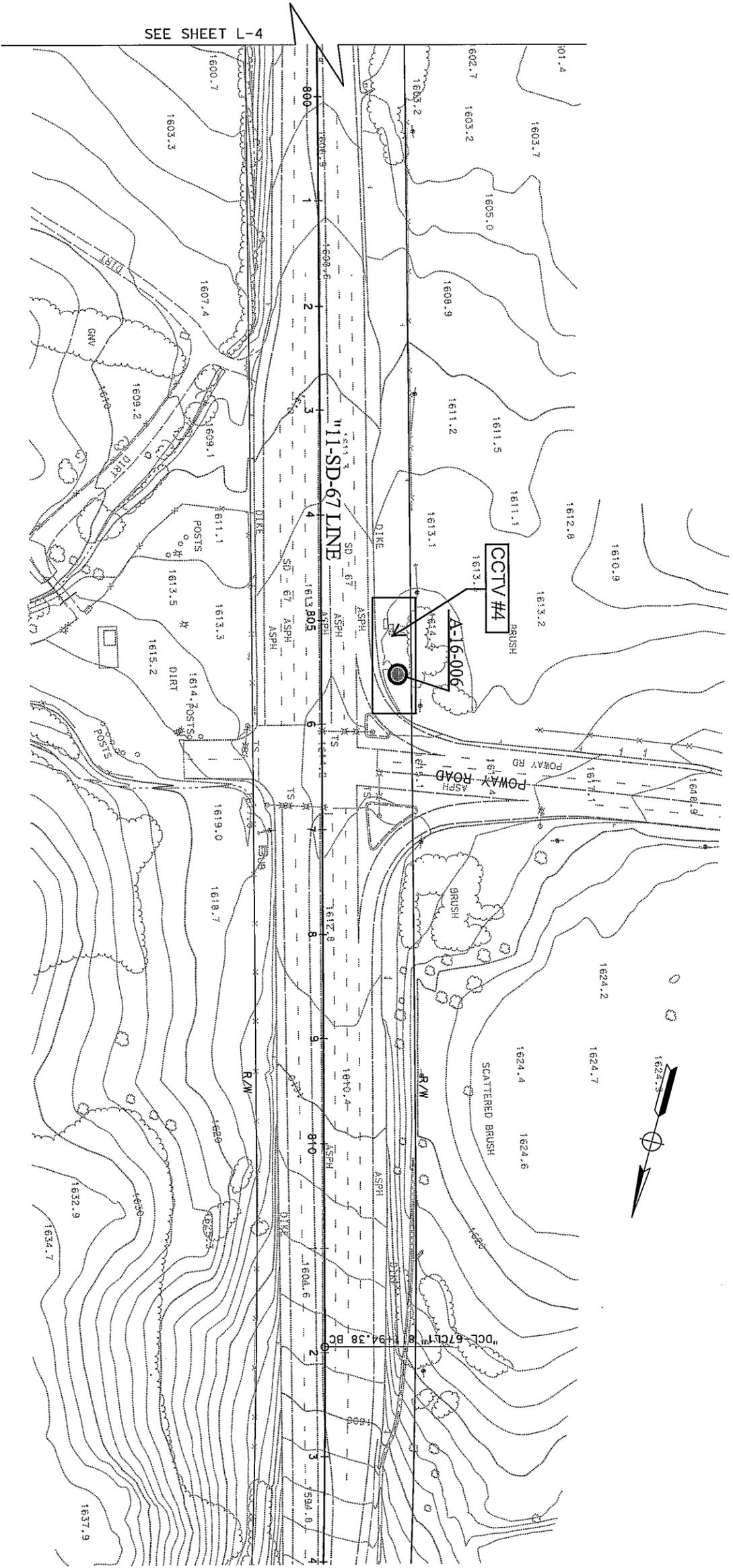
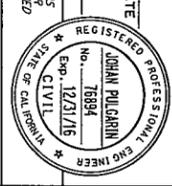
  

REGISTERED CIVIL ENGINEER	DATE
JUAN PULGARIN	12/31/15
Exp. 12/31/15	

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN UNLESS SO INDICATED OTHERWISE ON THIS PLAN SHEET.



Legend:  
 A-##-## - Boring Name ( Auger-Year-Boring Number)  
 ● Approximate Boring Location

SCALE 1"=50'

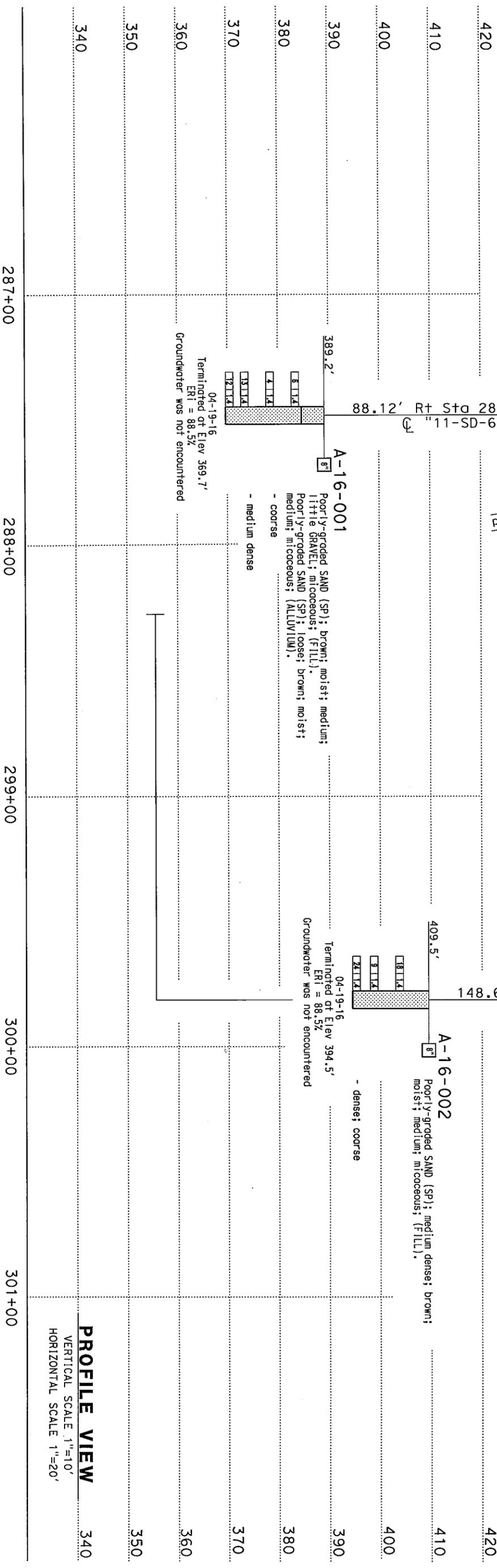
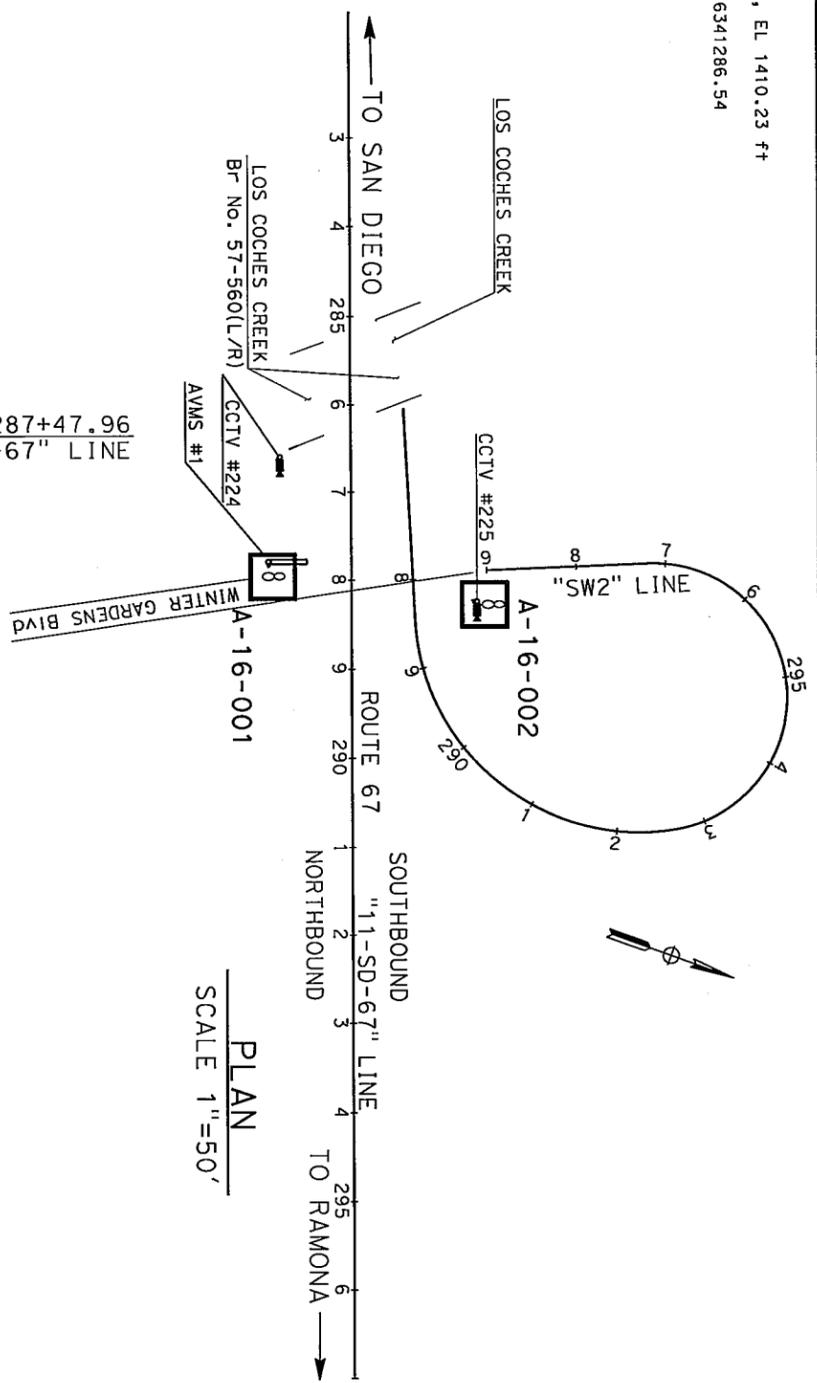
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	H. TRAN	REVISED BY	
<b>Caltrans</b>	R. ROBLES	CHECKED BY	J. PULGARIN	DATE REVISED	

BORDER LAST REVISED 7/2/2010  
 USERNAME => s11303  
 DGN FILE => 1100000545.dgn  
 RELATIVE BORDER SCALE IS IN INCHES  
 UNIT 2771  
 PROJECT NUMBER & PHASE 11000005451

LAST REVISION DATE PLOTTED => 26-JAN-2016  
 12-02-15 TIME PLOTTED => 15:18

Figure Xc: Boring Location Map

**BENCH MARK**  
 2 1/4" CADT BRASS DISK IN BOULDER, EL. 1410.23 FT  
 67-13.4 2000 110  
 NORTHING: 1928006.84, EASTING: 6341286.54  
 DATUM NAVD88 US SURVEY FOOT



DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
11	SD	67	R4.6-19.0	NO. SHEETS

REGISTERED ENGINEERING GEOLOGIST DATE: 05/17/16  
 JEFF J. TESAR  
 No. 2137  
 REGISTERED ENGINEERING GEOLOGIST  
 STATE OF CALIFORNIA

This LOTB sheet was prepared in accordance with the California Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).

**ENGINEERING SERVICES**  
 FUNCTIONAL SUPERVISOR: DRAWN BY: T. PANAH/FUGRO  
 NAME: B. HINMAN  
 CHECKED BY: B. HINMAN

**MATERIALS AND GEOTECHNICAL SERVICES**  
 FIELD INVESTIGATION BY: J. TESAR

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

**DIVISION OF ENGINEERING SERVICES**  
 STRUCTURE DESIGN  
 DESIGN BRANCH SOUTH B

BRIDGE NO.:  
 POST MILE: R4.6-19.0

**SR-67 CCTV SYSTEMS AND AVMS TRAFFIC SIGNS**  
 LOG OF TEST BORINGS SHEET 1 OF 7

UNIT: 3659  
 PROJECT NUMBER & PHASE: 11-0000-0545  
 CONTRACT NO.: 40320

DISSEMINATION BEARING  
 EARLIER REVISION DATES

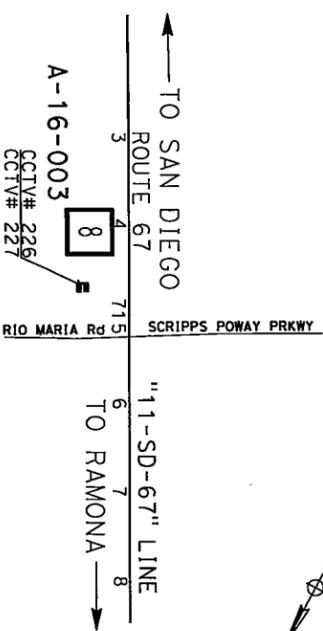
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SHEET OF

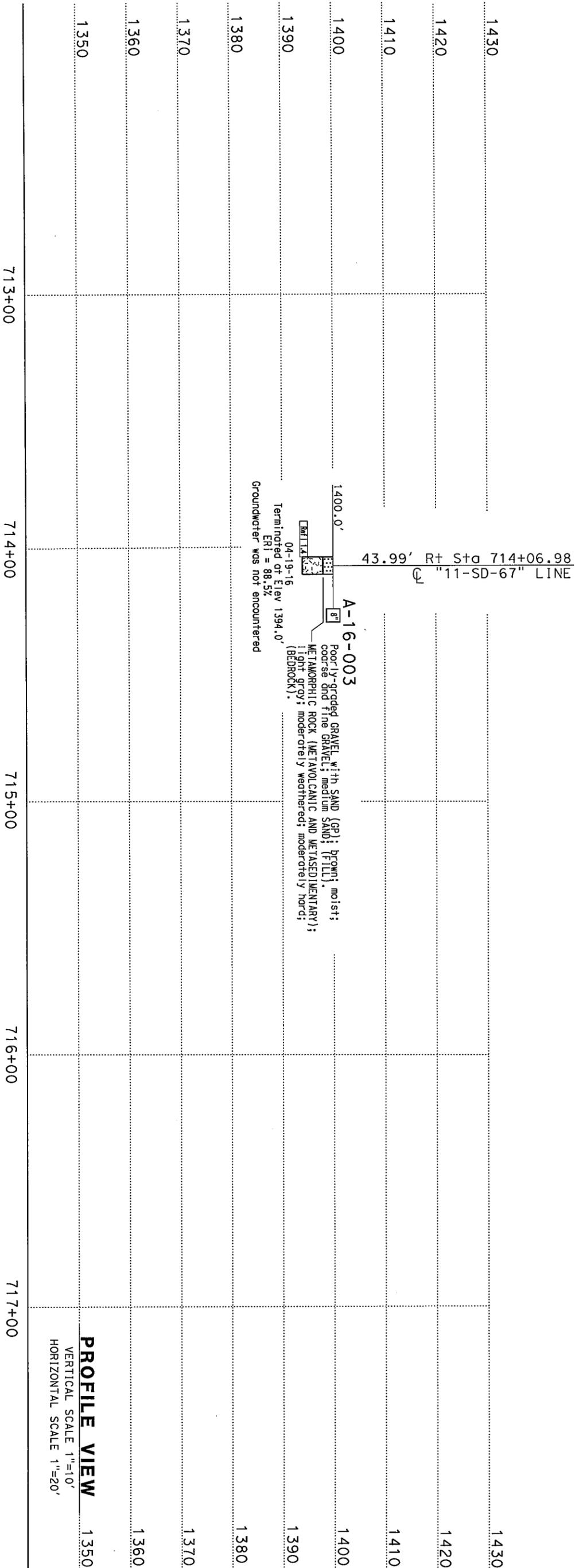
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**BENCH MARK**

2 1/4" CADT BRASS DISK IN BOULDER, EL. 1410.23 ft  
 67-13.4 2000 110  
 NORTHING: 1928006.84, EASTING: 6341286.54  
 DATUM NAVD88 US SURVEY FOOT



**PLAN**  
 SCALE 1"=20'



**PROFILE VIEW**  
 VERTICAL SCALE 1"=10'  
 HORIZONTAL SCALE 1"=20'

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	67	R4.6-19.0		

REGISTERED ENGINEERING GEOLOGIST DATE: 05/17/16  
 JEFF J. TESAR  
 PLANS APPROVAL DATE: 05/17/16  
 No. 2137 REGISTERED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

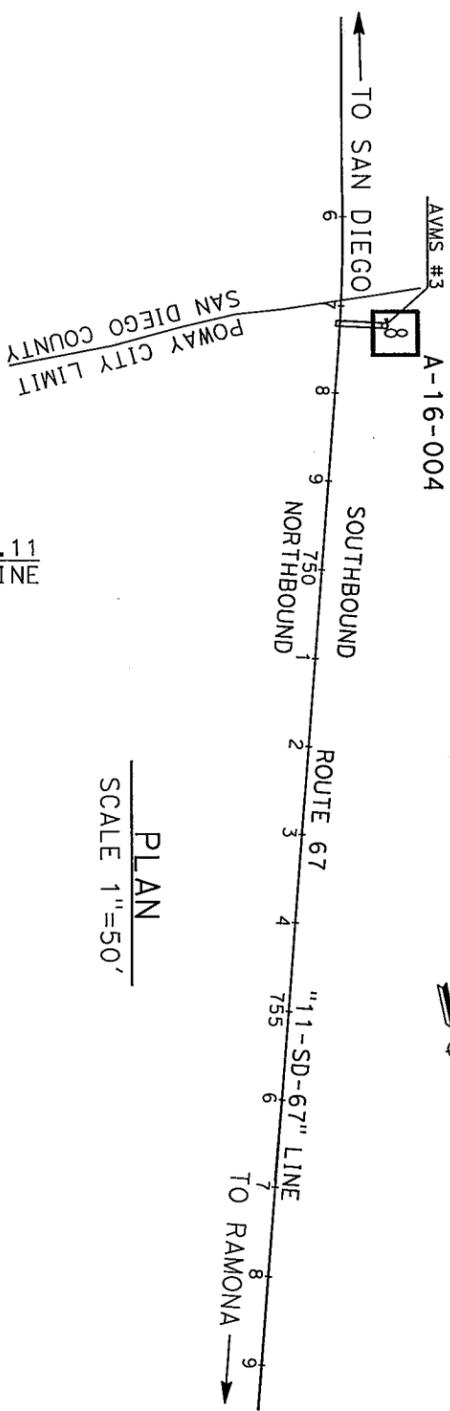
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ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN		SR-67 CCTV SYSTEMS AND AVMS TRAFFIC SIGNS	
FUNCTIONAL SUPERVISOR	NAME: B. HINMAN	DRAWN BY: T. PANAH/UGRO	CHECKED BY: B. HINMAN	FIELD INVESTIGATION BY: J. TESAR	BRIDGE NO. R4.6-19.0	POST MILE R4.6-19.0	LOG OF TEST BORINGS SHEET 2 OF 7	CONTRACT NO.: 40320	DISCARD PRINTS BEARING EARLIER REVISION DATES
DESIGN BRANCH SOUTH B		PROJECT NUMBER & PHASE: 11-0000-0545		PROJECT NUMBER & PHASE: 11-0000-0545		CONTRACT NO.: 40320		REVISION DATES	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

FILE => REQUEST

**BENCH MARK**  
 2 1/4" CADT BRASS DISK IN BOULDER, EL. 1410.23 ft  
 67-13.4 2000 110  
 NORTHING: 1928006.84, EASTING: 6341286.54  
 DATUM NAVD88 US SURVEY FOOT



PLAN  
 SCALE 1"=50'

1430			1430
1420			1420
1410			1410
1400			1400
1390			1390
1380			1380
1370			1370
1360			1360
1350			1350
	746+00	747+00	748+00
			749+00
			750+00

62.32' Lt Sta 747+28.11  
 "11-SD-67" LINE  
 A-16-004  
 Poorly-graded SAND (SP); very dense; brown; dry;  
 fine; trace fine GRAVEL.  
 METAMORPHIC ROCK (METAVOLCANIC); light brown;  
 moderately weathered; hard.  
 Poorly-graded SAND (SP); very dense; brown; dry;  
 fine; (BEDROCK).  
 04-19-16  
 Terminated at Elev 1399.1'  
 FRI = 88.5%  
 Groundwater was not encountered

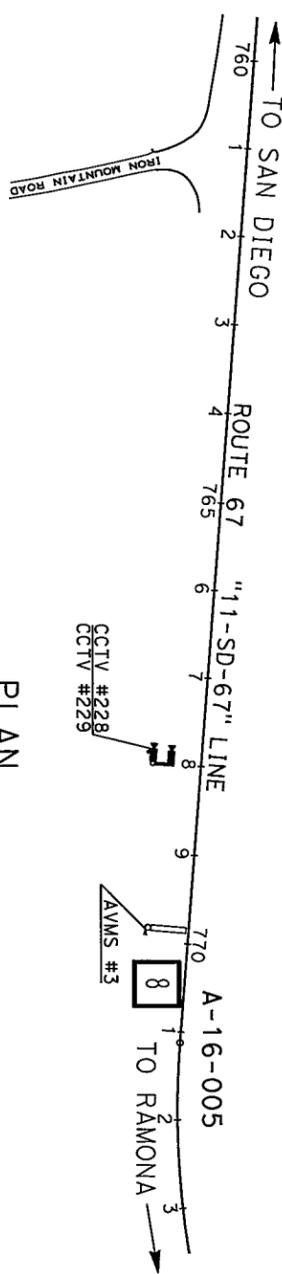
**PROFILE VIEW**  
 VERTICAL SCALE 1"=10'  
 HORIZONTAL SCALE 1"=20'

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
11	SD	67	R4.6-19.0	
REGISTERED ENGINEERING GEOLOGIST			DATE	05/17/16
PLANS APPROVAL DATE			JEFF J. TESAR	
No. 2137			REGISTERED ENGINEERING GEOLOGIST	
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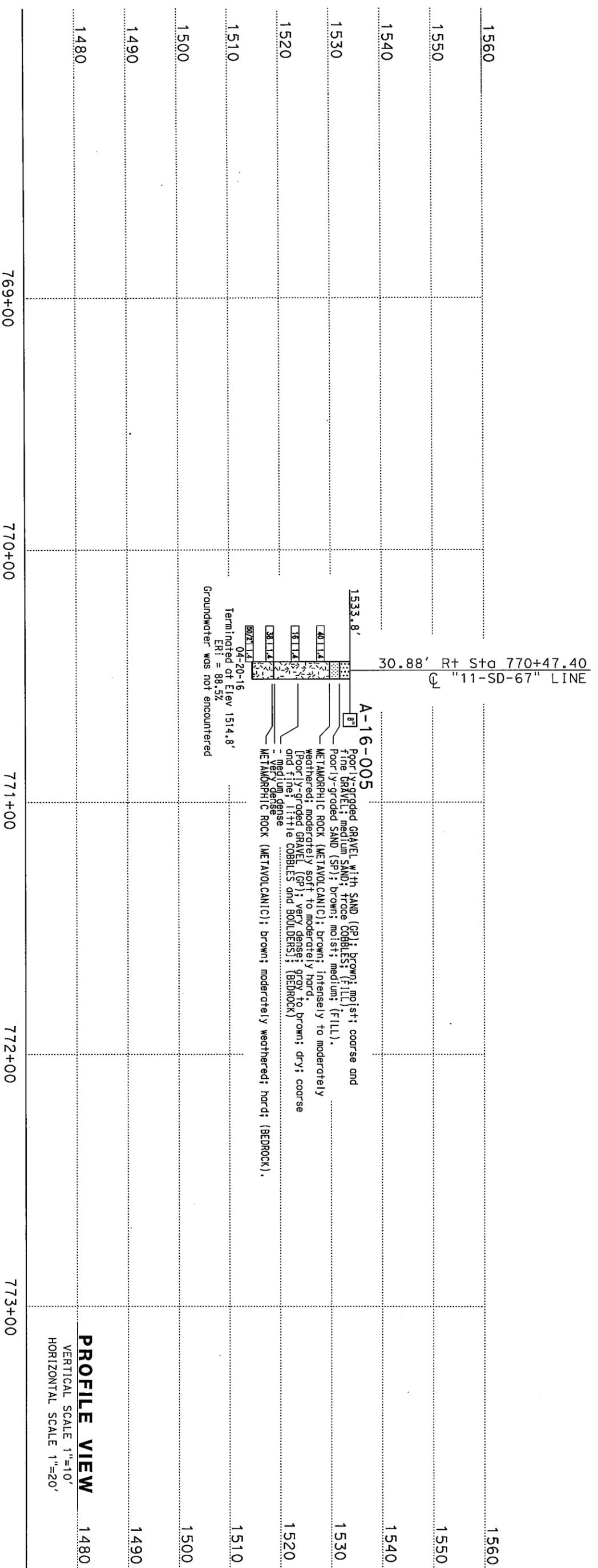
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<b>ENGINEERING SERVICES</b>		<b>MATERIALS AND GEOTECHNICAL SERVICES</b>		<b>STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION</b>		<b>DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN</b>		<b>SR-67 CCTV SYSTEMS AND AVMS TRAFFIC SIGNS</b>	
FUNCTIONAL SUPERVISOR	NAME: B. HINMAN	DRAWN BY: T. PANAH/EUGRO	CHECKED BY: B. HINMAN	FIELD INVESTIGATION BY: J. TESAR	BRIDGE NO.	POST MILE	R4.6-19.0	LOG OF TEST BORINGS SHEET 3 OF 7	DISSEMINATION BEARING EARLIER REVISION DATES
005 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	UNIT: 3659	PROJECT NUMBER & PHASE: 11-0000-0545	CONTRACT NO.: 40320	REVISION DATES	SHEET

**BENCH MARK**  
 2 1/4" CADT BRASS DISK IN BOULDER, EL. 1410.23 ft  
 67-13.4 2000 110  
 NORTHING: 1928006.84, EASTING: 6341286.54  
 DATUM NAVD88 US SURVEY FOOT



**PLAN**  
 SCALE 1"=50'



**PROFILE VIEW**  
 VERTICAL SCALE 1"=10'  
 HORIZONTAL SCALE 1"=20'

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	67	R4.6-19.0		

REGISTERED ENGINEERING GEOLOGIST DATE 05/17/15

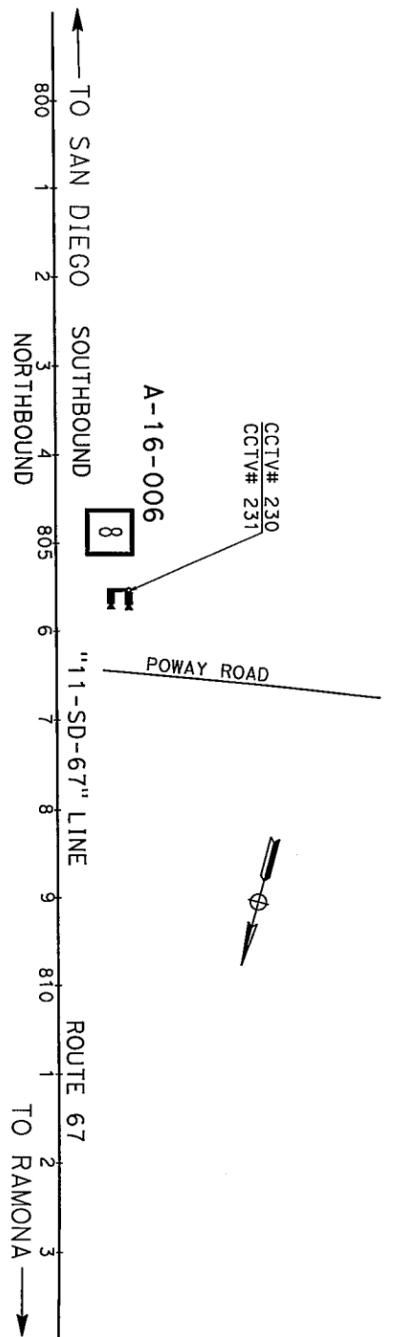
PLANS APPROVAL DATE

JEFF J. TESAR  
 No. 2137  
 REGISTERED ENGINEERING GEOLOGIST  
 STATE OF CALIFORNIA

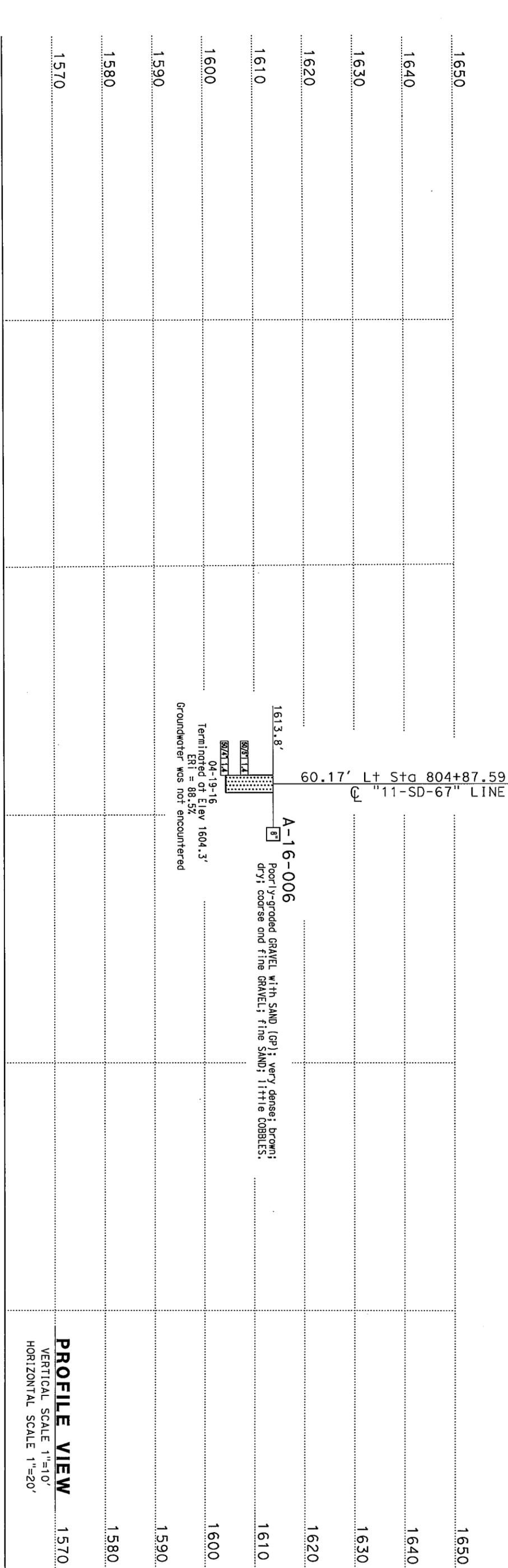
This LOTB sheet was prepared in accordance with the California Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).

<b>ENGINEERING SERVICES</b>		<b>MATERIALS AND GEOTECHNICAL SERVICES</b>		<b>STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION</b>		<b>DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN</b>		<b>SR-67 CCTV SYSTEMS AND AVMS TRAFFIC SIGNS</b>	
FUNCTIONAL SUPERVISOR NAME: B. HINMAN	DRAWN BY: T. PANAH/FUGRO CHECKED BY: B. HINMAN	FIELD INVESTIGATION BY: J. TESAR		BRIDGE NO. R4.6-19.0	POST MILE R4.6-19.0	LOG OF TEST BORINGS SHEET 4 OF 7	CONTRACT NO.: 40320	DISTRICT ENGINEER'S SIGNATURE	REVISION DATES
O&S CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE 1/4" INCHES FOR REDUCED PLANS		UNIT: 3659	PROJECT NUMBER & PHASE: 11-0000-0545				

**BENCH MARK**  
 2 1/4" CADT BRASS DISK IN BOULDER, EL. 1410.23 ft  
 67-13.4 2000 110  
 NORTHING: 1928006.84, EASTING: 6341286.54  
 DATUM NAVD88 US SURVEY FOOT



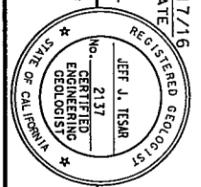
**PLAN**  
 SCALE 1"=50'



**PROFILE VIEW**  
 VERTICAL SCALE 1"=10'  
 HORIZONTAL SCALE 1"=20'

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTALS
11	SD	67	R4.6-19.0	NO. SHEETS
			05/17/16	REGISTERED ENGINEER
			DATE	2137
			05/17/16	REGISTERED ENGINEER
			DATE	2137
			05/17/16	REGISTERED ENGINEER
			DATE	2137

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<b>ENGINEERING SERVICES</b>		<b>MATERIALS AND GEOTECHNICAL SERVICES</b>		<b>STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION</b>		<b>DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN</b>		<b>SR-67 CCTV SYSTEMS AND AVMS TRAFFIC SIGNS</b>	
FUNCTIONAL SUPERVISOR	NAME: B. HINMAN	DRAWN BY: T. PANAH/UGRO	CHECKED BY: B. HINMAN	FIELD INVESTIGATION BY: J. TESAR	BRIDGE NO.	POST MILE	R4.6-19.0	LOG OF TEST BORINGS SHEET 5 OF 7	DISREGARD PRINTS BEARING EARLIER REVISION DATES
OSG CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES		UNIT: 3659		PROJECT NUMBER & PHASE: 11-0000-0545		CONTRACT NO.: 40320	

## **Read Me File for Electronic Files**

**11-403204\_Alignment and Profile.xml** -- SD-67 Alignment and Profile

**11-403204\_MVP Sta 747+09 Alignment and Profile.xml** -- SD-67 MVP Sta 747+09 Alignment and Profile

**11-403204\_MVP Sta 769+90 Alignment and Profile.xml** -- SD-67 MVP Sta 769+90 Alignment and Profile

**11-403204\_Vegetation Control Surface.xml** -- SD-67 Vegetation Control Surface