

FOR CONTRACT NO: 11-269304
PROJECT ID: 110000239

INFORMATION HANDOUT

MATERIALS INFORMATION

**FOUNDATION REPORT FOR TWO OVERHEAD SIGN STRUCTURES
ON STATE ROUTE 56**

ROUTE: 11-SD-5, 56-R30.4/R32.8, 0.0/9.2

Memorandum

To: Garry Williams
Design Engineer
District 11

Date: October 18, 2011
File: 11-SD-SR56- 1.9 / 6.7
EA: 11-269301
EFIS: 1100000239

From: DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
Geotechnical Services
Office of Geotechnical Design – South 2

Subject: Foundation Report for Two Overhead Sign Structures on State Route 56.

General

Pursuant to your request, a geotechnical foundation investigation has been conducted for two proposed overhead sign structures located on State Route 56 (SR-56). The overhead signs are planned to be located on eastbound SR-56 west of the Carmel Mountain Road Overcrossing at Station 376+99, and on westbound SR-56 east of the Old Carmel Valley Road Overcrossing at Station 171+83. Both sign structures are to be supported on a Caltrans Standard CIDH pile foundation, pursuant to Caltrans Standard Plan S116. It is my understanding that both pile foundations will be 21.0 feet in length. The geotechnical foundation investigation included review of the archived SR-56 project Geotechnical Design Reports (GDR), review of the project plans and Caltrans Standard Plans, site reconnaissance, subsurface investigation, laboratory soil testing, and the preparation of this memorandum.

Two Boring Records were developed for this investigation. The Boring Records are attached to this memorandum. One soil sample was collected from each boring for the purpose of laboratory corrosion testing. The laboratory test report is attached to this memorandum.

Due to a compressed product delivery schedule, and at the direction of the Design Engineer, no Caltrans Log of Test Boring has been prepared to represent the subsurface soil conditions at the overhead sign locations.

Additional information regarding geotechnical conditions on this project can be found in the SR-56 GDR's prepared by The Group Delta Consultants and dated September 28, 2001 and May 25, 1999. All elevations provided in this report are relative to mean sea level.

Site Geology and Subsurface Soil Conditions

Location at Station 171+83

At this location the traffic sign structure will be constructed approximately ten feet north from the existing northern shoulder edge of westbound SR-56. The sign will be located on a relatively level ground and near the toe of the south-facing cut slope that is inclined at 2:1 horizontal to vertical (H:V). Attached Photo 1 depicts this sign location.

This site is located within the Torrey Sandstone Formation. This sedimentary formation is a Tertiary age arkosic sandstone which is white to light brown; medium to coarse grained, subangular, and moderately well indurated. The sandstone has a maximum thickness of 180 feet (Kennedy, 1975.)

Based on Boring A-11-002 that was drilled to a depth of 30.5 feet below ground surface, the location of the overhead sign is underlain by poorly-graded sands and silty sands. SPT testing indicated that the apparent density of these sands is very dense. These native soils are poorly indurated and have the general characteristic and engineering properties of competent soil. Therefore, they are described as soils and not as sedimentary rock.

Location at Station 376+99

At this location the traffic sign structure will be constructed approximately five feet south of the edge of the existing southern shoulder of eastbound SR-56. The sign will be located on level ground just north of the existing bike path. Attached Photo 2 depicts this sign location.

This site is located within the Delmar Formation. Most of this sedimentary formation is yellowish-green sandy claystone interbedded with medium-gray coarse-grained sandstone (Kennedy, 1975.)

Based on Boring A-11-001 that was drilled to the depth of 30.5 feet below the ground surface, the location of the overhead sign is underlain by a layer of fill consisting of poorly-graded coarse gravel with sand. This fill layer is then underlain by a layer of native lean clay that in turn is underlain by sands and silty sands. The interface of fill and native soils was logged to be at about an elevation of 366.76 feet, and the interface of clay and sands was found to be at about an elevation of 363.26 feet. Pocket penetrometer reading indicated that the consistency of the lean clay is very stiff. SPT testing indicated that the apparent density of sands and silty sands is very dense. At an elevation of 343.76 feet a layer of silty sand thinly interbedded with bands of lean clay was encountered. SPT testing indicated that the apparent density of these soils is dense. Within this stratum, at an elevation of 342.76 feet groundwater was encountered. After about an hour the groundwater level stabilized at an elevation of 348.26 feet. The native soils described above are poorly indurated and have the general characteristic and engineering properties of competent soil. Therefore, they are described as soils and not as sedimentary rock.

Recommendations and Construction Considerations

- A Caltrans standard CIDH pile foundation pursuant to Caltrans Standard Plan S116 is recommended for both overhead sign structures. The Caltrans Standard Plan pile foundation for both overhead signs should utilize an angle of internal friction of 30 degrees.
- The CIDH pile foundation shafts may be excavated with the use of standard foundation drilling (augering) equipment.
- The shafts drilled for this project will predominantly encounter poorly indurated native sedimentary formations, consisting of sands, silty sands and clays. At the location of Station 376+99, in addition to sands and clays, CIDH shafts will encounter coarse gravels with sand in the upper five-foot thick fill layer.
- Mild caving or sloughing conditions may be encountered during drilling. Sloughing and/or caving will minimally increase the volume of shafts.
- Potential caving or sloughing conditions are most likely to be present at the location of Station 376+99 where the upper five-foot thick interval is composed of gravelly fill materials. Therefore, the use of temporary casing for this section of the shaft is recommended.
- During the subsurface investigation program, at the location at Station 376+99, groundwater was encountered at an elevation of 343.76 feet. After an hour this groundwater level stabilized at an elevation of 348.26 feet. Since the maximum depth of proposed CIDH pile foundations is 21 feet below the ground surface, we do not expect groundwater to be encountered during drilling of the shafts.
- Soil sample collected for the overhead sign at the location of Station 171+83 was tested to be corrosive. Therefore, the foundation for that overhead sign should be designed to mitigate this corrosion potential.

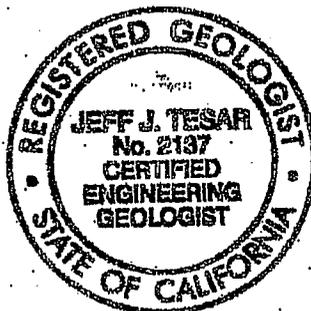
OGDS staff is available for further assistance on this project. If you have additional questions or require clarification please contact Jeff Tesar at (office) 858 467-2716 or (mobile) 858 945-0458.



Jeff Tesar, C.E.G.
Engineering Geologist
Office of Geotechnical Design-South 2



Brian Hinman, P.E.
Senior Transportation Engineer
Office of Geotechnical Design-South 2



ATTACHEMENTS

1. Boring Records
2. Project Layouts
3. Laboratory Test Report
4. Photos

REFERENCES

1. Caltrans Standard Plans, 2010.
2. Michael P. Kennedy and Gary L. Peterson, Geology of the San Diego Metropolitan Area, California, Poway Quadrangle, California Division of Mines and Geology, Bulletin 200, 1975.
3. Group Delta Consultants: *Geotechnical Design Report, Middle Segment State Route 56 Project, San Diego, California, 11-SD-56, PM 2.05/6.5*, September 28, 2001.
4. Group Delta Consultants: *Geotechnical Design Report, Black Mountain Road Segment State Route 56 Project, San Diego, California, 11-SD-56, PM 6.15/7.95*, May 25, 1999.



Foundation Report for Two Overhead Sign Structures on SR-56.

EA 11-269301

10/18/2011

Page 5

cc: Shahin Sepassi
Mark Willian
Art Padilla
Abbas Abghari
District Construction R.E. Pending File

OGDS2 File Room

District Project Manager
Geotechnical Services Corporate
District Materials Engineer
Office Chief, OGDS2

It is the responsibility of the District Project
Engineer and/or the Design Senior to include this
document in the R.E. Pending Files

ATTACHEMENTS

LOGGED BY J. TESAR	BEGIN DATE 10/11/11	COMPLETION DATE 1/11/2011	BOREHOLE LOCATION (Lat/Long or North/East and Datum) 378 + 30; R 99.0; SD-56 Line	HOLE ID: A-11-001
DRILLING CONTRACTOR CALTRANS	BOREHOLE LOCATION (Station, Offset, and Line)		SURFACE ELEVATION 371.78 ft	
DRILLING METHOD HOLLOW STEM AUGER	DRILL RIG ACKER MPCA 3711		BOREHOLE DIAMETER 6 in	
SAMPLER TYPE(S) AND SIZE(S) (ID) SPT (1.4 in)	SPT HAMMER TYPE MANUAL		HAMMER EFFICIENCY (ER) 88 %	
BOREHOLE BACKFILL AND COMPLETION CUTTINGS AND BENTONITE CHIPS	GROUNDWATER READINGS	DURING DRILLING 23.5 ft (10/11/2011)	AFTER DRILLING (DATE)	TOTAL DEPTH OF BORING 30.5 ft

ELEVATION (ft)	DEPTH (ft)	DEPTH (ft)	DESCRIPTION	Sample Location	Sample Number	Blows Per 6 in	Blows Per 1.0 ft	Recovery (%)	ROD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Casing Depth	REMARKS
371.78	1		ASPHALT CONCRETE (6").												
	2		Poorly-graded GRAVEL with SAND (GP); gray; moist; medium SAND; coarse GRAVEL; (FILL)												
	3														
	4														
	5	5.00	Lean CLAY (CL); very stiff; brown; moist; low plasticity; PP = 2.2 tsf.		S01	50	84	REF*							* Blow count affected by Gravel.
366.78	6														
	7														
	8														
	9		Poorly-graded SAND (SP); very dense; light brown; moist; fine SAND.		S02	10	84								
	10					24									
	11					40									
	12														
	13														
	14														
	15				S03	10	65								
	16					25									
	17					40									
	18														
	19	19.00	SILTY SAND (SM); very dense; light brown; moist; fine SAND; locally thin bands of lean CLAY.		S04	10	66								
	20					21									

	DEPARTMENT OF TRANSPORTATION	REPORT TITLE	HOLE ID:	A-11-001
	DIVISION OF ENGINEERING SERVICES	BORING RECORD	DISTRICT	66
	GEOTECHNICAL SERVICES	COUNTY	POSTMILE(KP)	6.7
	OFFICE OF GEOTECHNICAL DESIGN-SOUTH 2	PROJECT OR BRIDGE NAME	EA	11-289301 / 11-0000 0239
		MCS TRAFFIC SIGN	DATE	10/13/11
	BRIDGE NUMBER	PREPARED BY	J. TESAR	SHEET
		DATE	10/13/11	1 of 2

ELEVATION (ft)	DEPTH (ft)	DEPTH (ft)	DESCRIPTION	Sample Location	Sample Number	Blows Per 6 In	Blows Per 1.0 ft	Recovery (%)	RCB (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (ksf)	Drilling Method	Casing Depth	REMARKS
	21		SILTY SAND (SM) (Continued).	X		45									
	22														
	23														
348.28	23.5	Y	Groundwater Level (10/11/2011):												
	24		light gray.	X		17									
	25			X	S05	30	70								
	25					40									
	26														
	27														
343.76	28	28.00	SILTY SAND (SM) thinly interbedded with bands of lean CLAY (CL); SAND; dense; brown; wet; fine SAND; CLAY; gray to brown; plastic.	X		14									
	29			X	S06	22	48								
	30					24									
341.28	30.50		Bottom of Boring at 30.5 ft at elevation 341.28 ft. Boring terminated at planned depth. Groundwater encountered at elevation 342.76 ft, after 1 hour stabilized at elevation 348.28 ft. This Boring Record was prepared in accordance with the California Soil and Rock Logging, Classification and Presentation Manual (2010).												
	31														
	32														
	33														
	34														
	35														
	36														
	37														
	38														
	39														
	40														



DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 GEOTECHNICAL SERVICES
 OFFICE OF GEOTECHNICAL DESIGN-SOUTH 2

REPORT TITLE
 BORING RECORD
 DISTRICT COUNTY
 11 SD
 PROJECT OR BRIDGE NAME
 MCS TRAFFIC SIGN
 BRIDGE NUMBER
 PREPARED BY J. TESAR

ROUTE
 55
 DATE
 10/13/11

HOLE ID: A-11-001
 POSTMILE(KP) EA
 6.7 11-269301 / 11-0000 0239
 SHEET 2 of 2

40

LOGGED BY J. TEGAR	BEGIN DATE 10/11/11	COMPLETION DATE 1-11/2011	BOREHOLE LOCATION (Lat/Long or North/East and Datum)		HOLE ID: A-11-002
DRILLING CONTRACTOR CALTRANS	BOREHOLE LOCATION (Station, Offset, and Line) 171 + 85; L 93; SD-56 Line			SURFACE ELEVATION 178.80 ft	
DRILLING METHOD HOLLOW STEM AUGER	DRILL RIG ACKER MPCA 3711			BOREHOLE DIAMETER 6 in	
SAMPLER TYPE(S) AND SIZE(S) (ID) SPT (4.4 in)	SPT HAMMER TYPE MANUAL			HAMMER EFFICIENCY (ER) 88 %	
BOREHOLE BACKFILL AND COMPLETION CUTTINGS AND BENTONITE CHIPS			GROUNDWATER READINGS	DURING DRILLING Not Encountered	AFTER DRILLING (DATE)
			TOTAL DEPTH OF BORING 30.5 ft		

ELEVATION (ft)	DEPTH (ft)	DESCRIPTION	Sample Location	Sample Number	Blows Per 6 in	Blows Per 1.0 ft	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (ksf)	Drilling Method	Casing Depth	REMARKS
178.80	1	Poorly-graded SAND (SP); very dense; brown to gray; moist; fine SAND.	X	S01	9	63								
	2				26									
	3				37									
	4													
	5													
	6													
	7													
	8													
169.90	9	SILTY SAND (SM); very dense; brown; moist; fine SAND.	X	S02	16	82								
	10				29									
	11				33									
	12													
	13													
164.90	14	SILT with SAND (ML); very dense; brown and gray; dry; nonplastic; fine SAND.	X	S03	17	82								
	15				25									
	16				37									
	17													
	18													
159.90	19	Poorly-graded SAND (SP); very dense; gray; moist; fine SAND.	X	S04	14	70								
	20				35									

(continued)		REPORT TITLE BORING RECORD		HOLE ID: A-11-002	
DEPARTMENT OF TRANSPORTATION		DISTRICT 11	COUNTY SD	ROUTE 59	POSTMILE(KP) 1.9
DIVISION OF ENGINEERING SERVICES		PROJECT OR BRIDGE NAME MCS TRAFFIC SIGN		EA 11-000000 / 11-0000 0239	
GEOTECHNICAL SERVICES		BRIDGE NUMBER	PREPARED BY J. TEGAR	DATE 10/13/11	SHEET 1 of 2
OFFICE OF GEOTECHNICAL DESIGN-SOUTH 2					

ELEVATION (ft)	DEPTH (ft)	Depth (ft)	DESCRIPTION	Sample Location	Sample Number	Blows Per 6 in	Blows Per 1.8 ft	Recovery (%)	ROD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (ksf)	Drilling Method	Casing Depth	REMARKS	
	21		Poorly-graded SAND (SP) (Continued).	X		35										
	22															
	23															
	24															
	25				X	S05	48	70								
	26						43									
	28															
	27															
	28															
	30				X	S06	15	83								
148.40		30.50	Bottom of Boring at 30.5 ft. at elevation 148.40 ft. Boring terminated at planned depth.													
	31		This Boring Record was prepared in accordance with the Caltrans Soil and Rock Logging, Classification and Presentation Manual (2010).													
	32															
	33															
	34															
	35															
	36															
	37															
	38															
	39															
	40															



DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 GEOTECHNICAL SERVICES
 OFFICE OF GEOTECHNICAL DESIGN-SOUTH 2

REPORT TITLE
 BORING RECORD
 DISTRICT COUNTY
 11 SD
 PROJECT OR BRIDGE NAME
 MCS TRAFFIC SIGN
 BRIDGE NUMBER
 103-123-0000-0000 J. TESAR

ROUTE POSTMILE(KP)
 58 1.9
 PREPARED BY
 DATE
 10/19/11

HOLE ID: A-11-002
 EA
 11-000000 / 11-0000 0239

SHEET
 2 of 2

42

GEOCON

INCORPORATED

41571 Corning Place, Suite 101 * Murrieta, CA 92562-7605

PROJECT NAME: CALTRANS SR-76

PROJECT NUMBER _____

DATE 10/18/11

TECHNICIAN NJ

SAMPLE NUMBER A-11-001

CORROSION TEST DATA

CAL 634

VOLUME FACTOR

SMALL BOX = 1.0

LARGE BOX = 6.76

1.0

MOISTURE ADDED	RESISTIVITY OHMS MULT BY	OHMS	RESISTIVITY
20	1K	27	2700
10	1K	66	1600
10	1K	62	1200
10	1K	100	1000
10	1K	111	1100
10	1K	113	11300

MINIMUM RESISTIVITY (OHM CM):

1000

PH:

7.9



34

GEOCON

GEOCON INC 6960 FLANDERS DRIVE SAN DIEGO CA 92121

SULFATE CONTENT CAL TEST 417

Project Name: Caltrans
 Project Number: _____
 Date: 10.18.11 Technician: JD

Sample No. <u>A-11-001</u>			
Wet Weight	<u>200</u>	Moisture Content	
Dry Weight	<u>192.2</u>	<u>4.1</u>	
Dilution	<u>1</u>		
Time (minutes)	Blank	Reading	
0:30	<u>21.7</u>	<u>91.8</u>	<u>70.1</u>
1:00	<u>21.5</u>	<u>91.5</u>	<u>70</u>
1:30	<u>21.4</u>	<u>91.5</u>	<u>70.1</u>
2:00	<u>21.5</u>	<u>91.8</u>	<u>70.3</u>

0.0189%
180 ppm

Sample No. <u>A-11-002</u>			
Wet Weight	<u>200</u>	Moisture Content	
Dry Weight	<u>190.6</u>	<u>4.9</u>	
Dilution	<u>1</u>		
Time (minutes)	Blank	Reading	
0:30	<u>4.04</u>	<u>105</u>	<u>100.94</u>
1:00	<u>4.44</u>	<u>105</u>	<u>100.56</u>
1:30	<u>4.28</u>	<u>106</u>	<u>101.72</u>
2:00	<u>4.37</u>	<u>110</u>	<u>105.63</u>

0.028%
280 ppm

Sample No.			
Wet Weight		Moisture Content	
Dry Weight			
Dilution			
Time (minutes)	Blank	Reading	
0:30			
1:00			
1:30			
2:00			

Sample No.			
Wet Weight		Moisture Content	
Dry Weight			
Dilution			
Time (minutes)	Blank	Reading	
0:30			
1:00			
1:30			
2:00			

Sample No.			
Wet Weight		Moisture Content	
Dry Weight			
Dilution			
Time (minutes)	Blank	Reading	
0:30			
1:00			
1:30			
2:00			

Sample No.			
Wet Weight		Moisture Content	
Dry Weight			
Dilution			
Time (minutes)	Blank	Reading	
0:30			
1:00			
1:30			
2:00			

45

GEOCON

INCORPORATED

41571 Corning Place, Suite 101 * Murrieta, CA 92582-7605

PROJECT NAME CALTRANS SR-76

PROJECT NUMBER _____

DATE 10/20/11

TECHNICIAN ND

SAMPLE NUMBER A-11-002

CORROSIVITY TEST DATA

CAL 634

VOLUME FACTOR

SMALL BOX = 1.0

LARGE BOX = 6.76

1.0

MOISTURE ADDED	RESISTIVITY OHMS MULT BY	OHMS	RESISTIVITY
----------------	-----------------------------	------	-------------

16	1K	15	1500
8	100	8.5	850
8	100	4.9	490
8	100	3.7	370
8	100	3.1	310
8	100	2.9	290
8	100	3.0	300
8	100	3.0	300
8	100	3.0	300

MINIMUM RESISTIVITY (OHM CM):

290

PH:

7.6 ✓

46

GEOCON

6960 FLANDER DRIVE SAN DIEGO CA 92121

CHLORIDE CONTENT

AASHTO T291-94

Project:	<i>Caltrans</i>
Number:	
Date:	<i>10-18-11</i>
Tech:	<i>AD</i>

SILVER NITRATE SOLUTION 1ml = 0.5 mg Cl

SAMPLE NUMBER	<i>A-11-001</i>	<i>A-11-002</i>				
BLANK	<i>0.3</i>	<i>0.3</i>				
DRY MASS	<i>200</i>	<i>200</i>				
WET MASS	<i>192.2</i>	<i>190.6</i>				
MOISTURE CONTENT	<i>4.1</i>	<i>4.9</i>				
PH (6.0 TO 8.0)	<i>OK</i>	<i>OK</i>				
SAMPLE MASS	30.00	30.00	30.00	30.00	30.00	30.00
TITRATION						
start	<i>3.1</i>	<i>3.7</i>				
end	<i>3.7</i>	<i>31.0</i>				
AgNO4	<i>0.6</i>	<i>27.5</i>				
PPM	<i>16</i>	<i>1420</i>				
% CHLORIDE	<i>0.002</i>	<i>0.142</i>	✓			

Remarks:

47

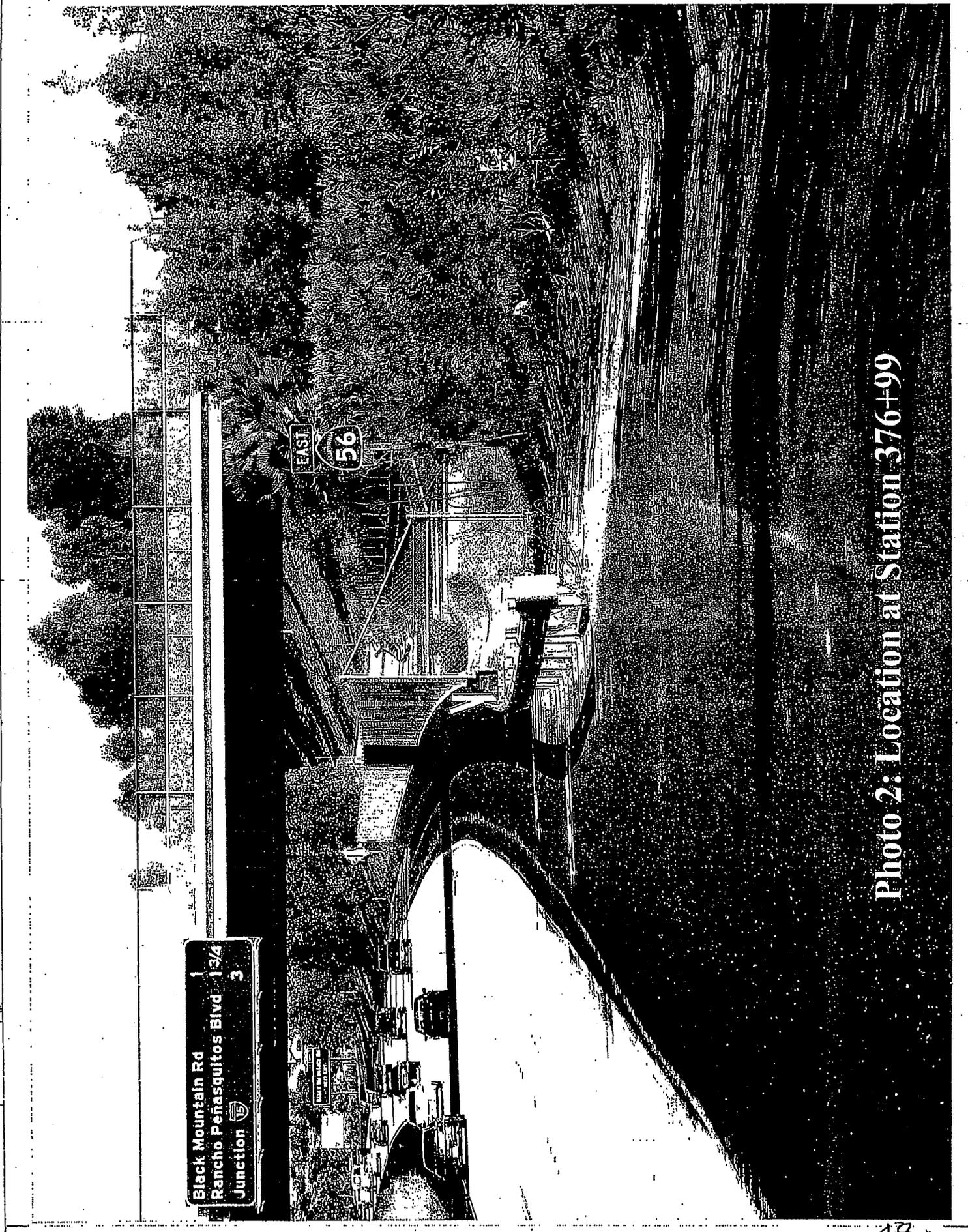


Photo 2: Location at Station 376+99

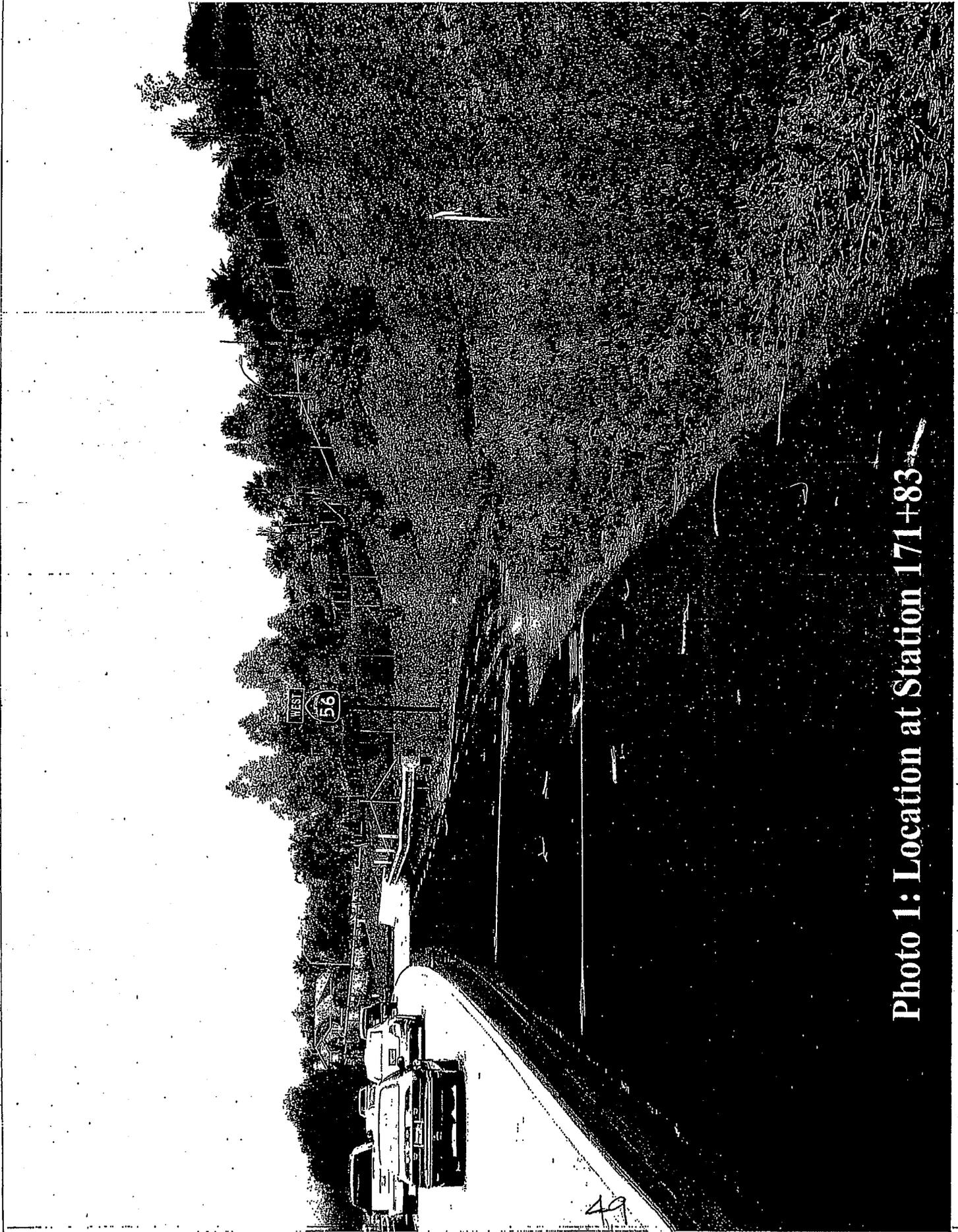
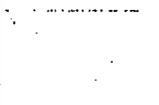


Photo 1: Location at Station 171+83

49

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
11	SD	5156	VARIOUS	11

REGISTERED ELECTRICAL ENGINEER DATE: _____
 PLANS APPROVAL DATE: _____
 STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS AND AIRPORTS
 DIVISION OF TRANSPORTATION PLANNING AND RESEARCH



CONDUIT NOTES (TSO):
 Δ - EXIST' MDCS(6), INT.
 ADD 2 FO 144.

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY
 SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

RELATIVE SCALE
 1" = 100 FEET

PROJECT NUMBER & PHASE
 11000002391

UNIT 2833

SCALE: 1"=50'

NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,
 SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 FUNCTIONAL SUPERVISOR

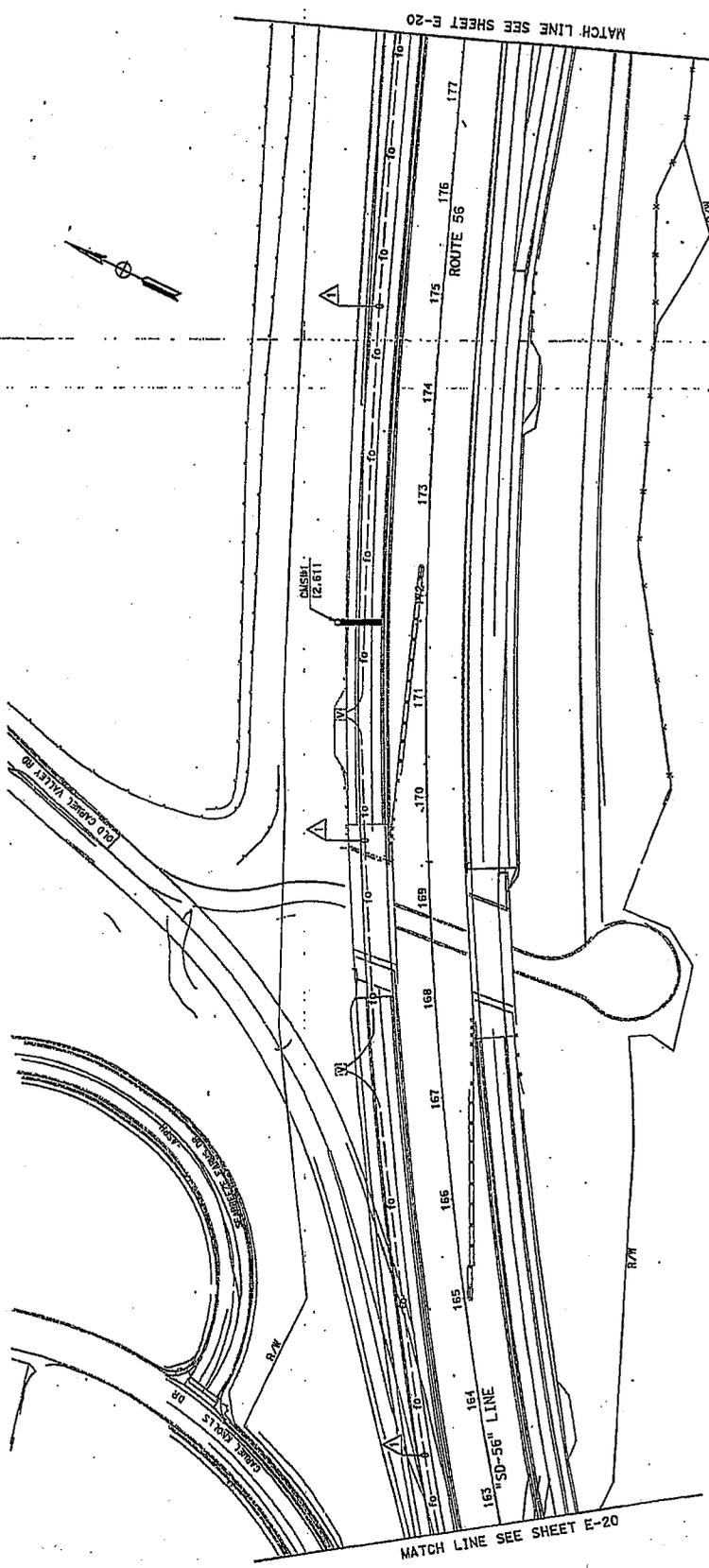
DESIGNED BY: HENRY TSUI
 CHECKED BY: DALE WILSON

ENROUTE DENIAL
 DATE REVISED

REVISOR

DATE REVISED

REVISOR



MATCH LINE SEE SHEET E-20

MATCH LINE SEE SHEET E-20

FIBER OPTIC COMMUNICATION SYSTEM
 E-20

BOBBER LAST REVISED 7/2/2010

DATE PLOTTED: 11/15/2011

11000002391

50

DATE	COUNTY	ROUTE	SHEET NO.	TOTAL SHEETS
11	SD	5-56	VARIOUS	

REGISTERED ELECTRICAL ENGINEER	DATE
E. P. SPUR	6-30-17

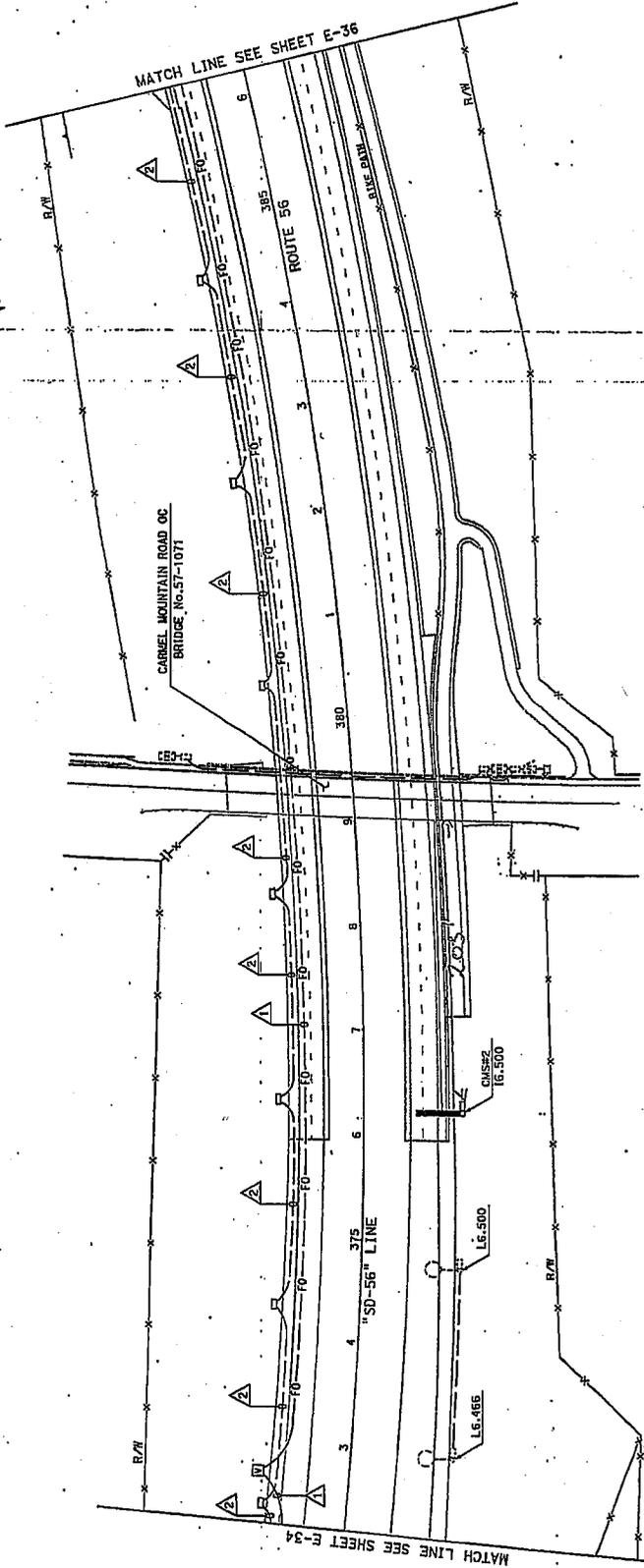
PLANS APPROVAL DATE	DATE

REGISTERED ELECTRICAL ENGINEER
 STATE OF CALIFORNIA
 LICENSE NO. 100002391
 DISTRICT OFFICE
 1515 W. 15th STREET
 SAN FRANCISCO, CALIF. 94115



CONDUIT NOTES (ISO):
 A - 1/2" x 1/2" x 1/2" (1/2" x 1/2" x 1/2")
 B - 2" x 2" x 2" (2" x 2" x 2") (TMS#7).
 C - 2" x 2" x 2" (2" x 2" x 2") (TMS#7).

NOTES (ISO):
 1 - CONSTRUCT FOUNDATION PER ES-3C FOR STATE-FURNISHED CAS 9334 CABINET.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DALE WILSON	CHECKED BY	ENRIQUE BERNAL	DATE REVISED
SP-CLIFFORDS TRAFFIC ELECTRICAL	DESIGNED BY	HENRY TSUI	REVISOR		

FIBER OPTIC COMMUNICATION SYSTEM
E-35

SCALE: 1"=50'

UNIT 2833 PROJECT NUMBER & PHASE 11000002391

NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

BRIDGE LAST REVISED 7/2/2010
 LICENSE NO. 100002391
 DISTRICT OFFICE 1515 W. 15th STREET, SAN FRANCISCO, CALIF. 94115

DATE PLOTTED 07-18-56-2011
 PLOT NO. 11510

51