

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY

| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET<br>NO | TOTAL<br>SHEETS |
|------|--------|-------|---------------------------------|-------------|-----------------|
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 1           | 155             |



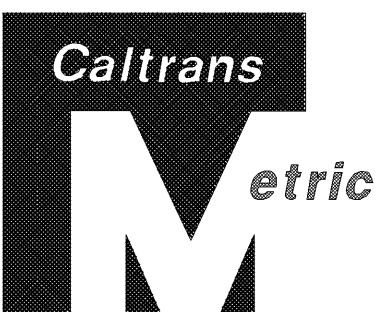
IN SANTA BARBARA AND SAN LUIS OBISPO COUNTIES AT AND  
NEAR VENTUCOPA FROM THE VENTURA COUNTY LINE TO 0.2 KM  
SOUTH OF THE 33/166 INTERSECTION AND FROM 0.4 KM EAST  
OF THE 33/166 INTERSECTION TO THE KERN COUNTY LINE

To be supplemented by Standard Plans dated July, 1999

LOCATION MAP

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BEGIN CONSTRUCTION  
(LOCATION 1)  
STA 00+10 KP 0.0 PM 0.0

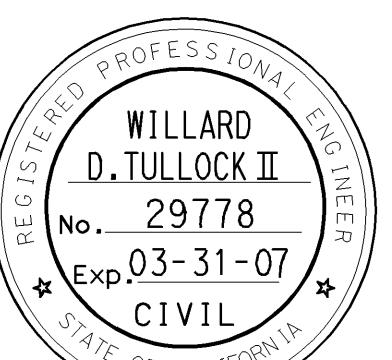
END CONSTRUCTION  
(LOCATION 1)  
STA 43+12 KP 4.2 PM 2.6

BEGIN CONSTRUCTION  
(LOCATION 2)  
STA 1205+51 KP 4.8 PM 3.0

END CONSTRUCTION  
(LOCATION 2)  
STA 1237+56 KP 8.0 PM 5.0

|   |           |
|---|-----------|
| AS BUILT  |           |
| CONTRACT No.  | 05-0A4004 |
| C.C.A. DATE   | 08-30-06  |
| R.E. NAME   | R.B.Hurd  |
| <i>R.B.Hurd</i>   |           |
| R.E. Signature for final approval of As-built information |           |

Willard D.TULLOCK II  
01-26-04  
Project Engineer Date  
Registered Civil Engineer



November 29, 2004

Plans Approval Date

Contract No. 05-0A4004

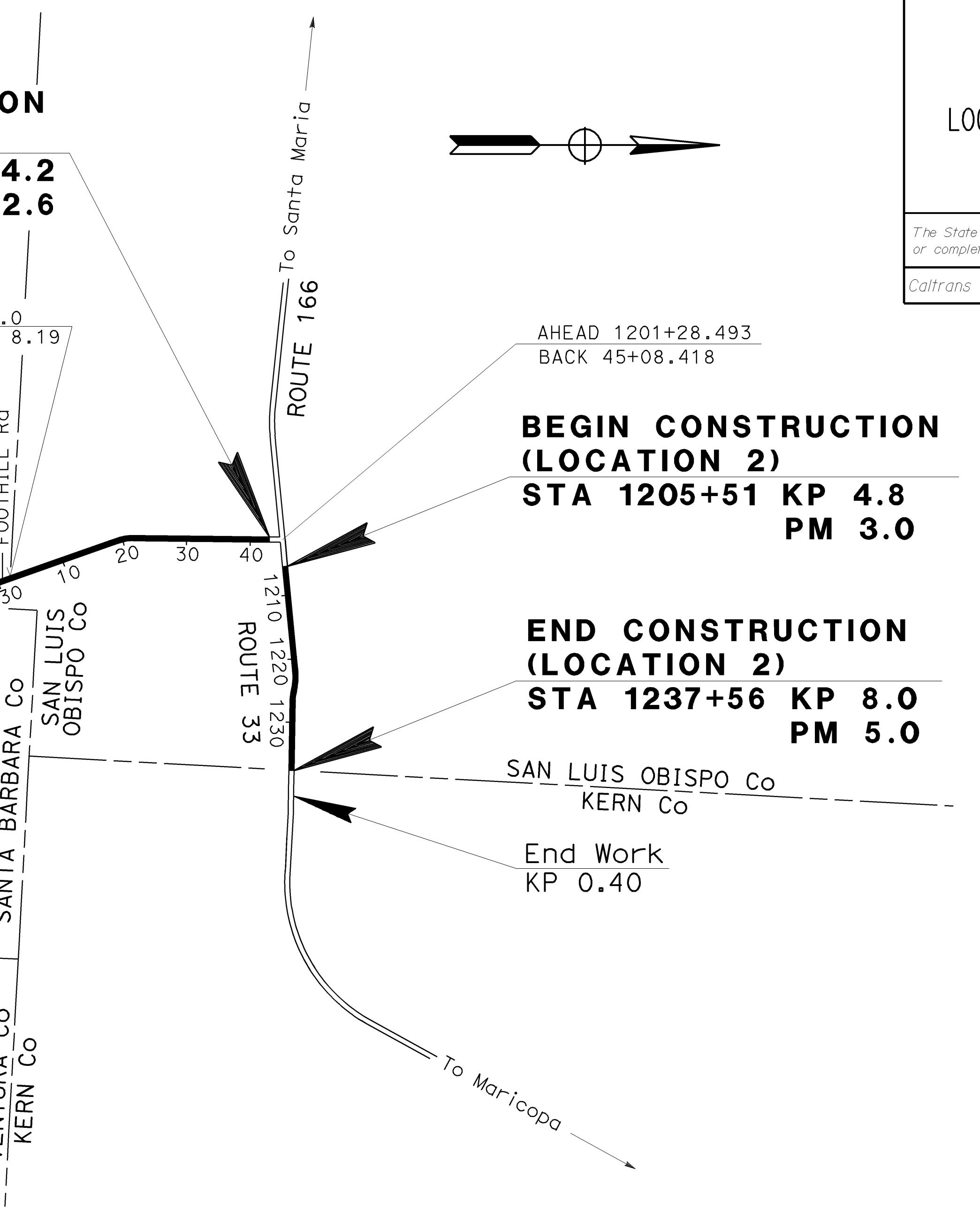
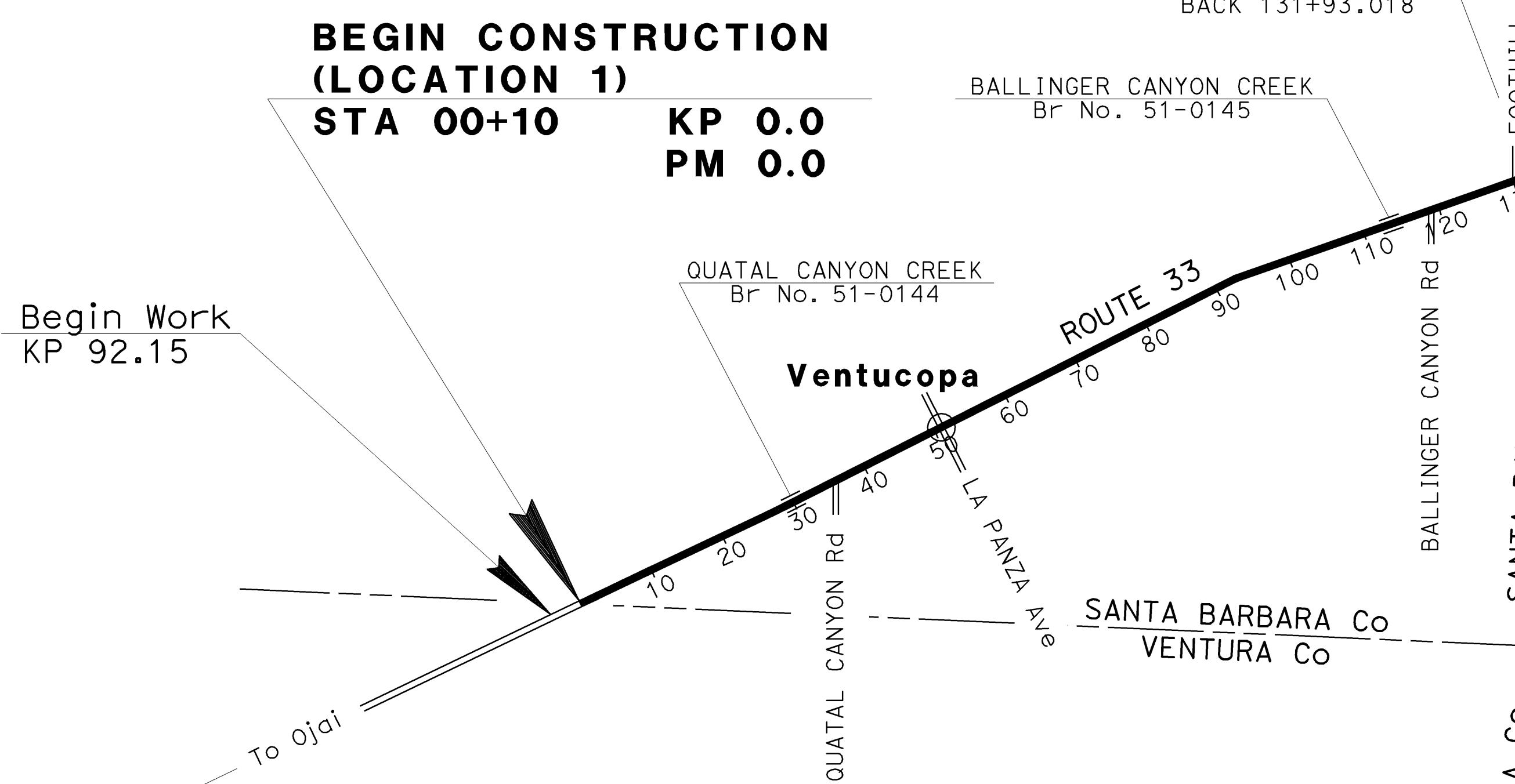
INDEX OF SHEETS

| Sheet No. | Description                                  |
|-----------|--|
| 1         | Title and Location Map                       |
| 2-4       | Typical Cross Sections                       |
| 5-37      | Layouts                                      |
| 38-62     | Profiles                                     |
| 63        | Superelevation Diagrams                      |
| 64-70     | Construction Details                         |
| 71        | Temporary Water Pollution Control Details    |
| 72        | Erosion Control Details                      |
| 73-83     | Drainage Profiles and Quantities             |
| 84-90     | Stage Construction and Traffic Handling Plan |
| 91        | Construction Area Signs                      |
| 92-124    | Pavement Delineation Plans and Quantities    |
| 125       | Summary of Quantities                        |
| 126-127   | Sign Plan and Quantities                     |
| 128       | Planting Plans                               |
| 129-137   | Temporary Signal System                      |
| 138-143   | Revised Standard Plans                       |

STRUCTURE PLANS

|         |   |
|---------|---|
| 144-149 | Quatal Canyon Creek Bridge Br No. 51-0144 |
| 150-155 | Ballinger Creek Bridge Br No. 51-0145     |

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO CONTRACTORS AND SPECIAL PROVISIONS BOOK.



NO SCALE

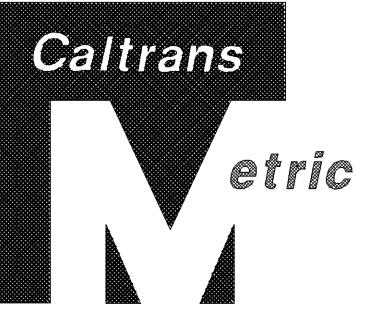
The Contractor shall possess the Class (or Classes) of license as specified in the "Notice to Contractors".

PROJECT ENGINEER DATE PROJECT MANAGER DATE  
W. Tullock 01/22/04 A. Donato 01/04





NOTE: EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



|      |        |       |                                 |          |              |
|------|--------|-------|---------------------------------|----------|--------------|
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| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 4        | 155          |

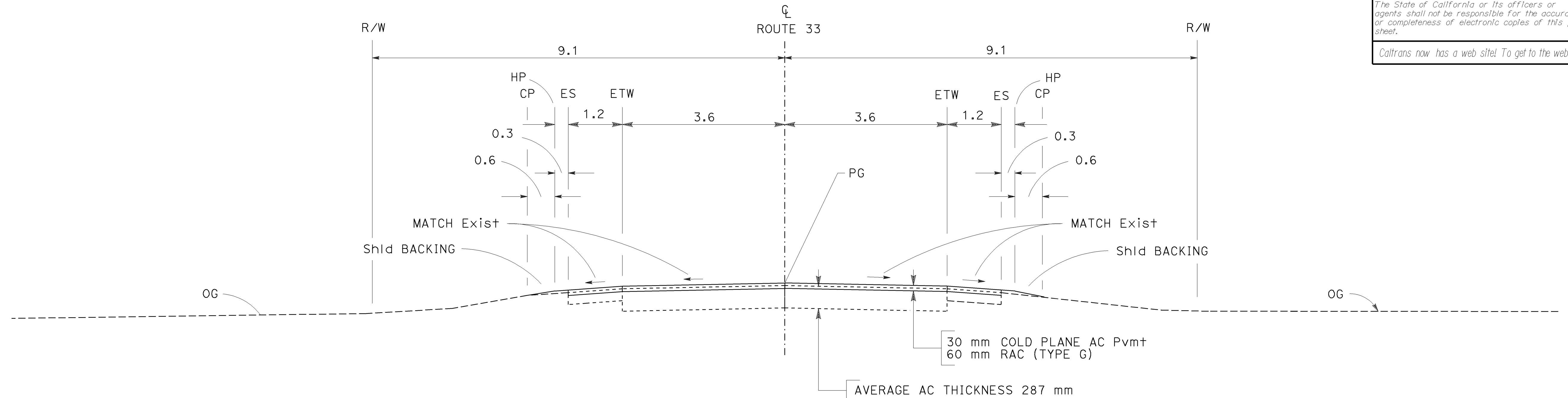
Willard 10-18-04  
REGISTERED CIVIL ENGINEER

11-29-04  
PLANS APPROVAL DATE

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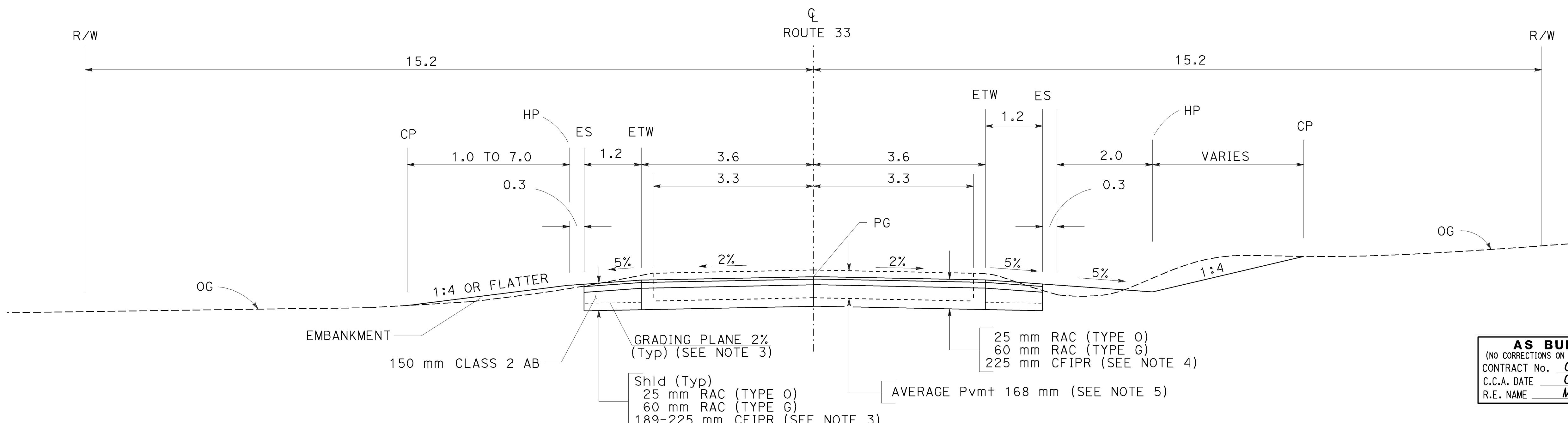
CALCULATED BY \_\_\_\_\_  
DESIGNED BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_



### ROUTE 33

SLO STA 1205+51 TO 1237+56

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | JOHN BULLARD



AS BUILT  
(NO CORRECTIONS ON THIS SHEET)  
CONTRACT No. 05-0A1004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Low

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN

SB STA 49+60 TO STA 49+90  
STA 57+10 TO STA 57+50  
STA 92+10 TO STA 93+10  
STA 94+30 TO STA 95+10  
STA 97+50 TO STA 97+90

SB STA 100+90 TO STA 101+50  
STA 104+90 TO STA 105+50  
STA 109+10 TO STA 109+50

SLO STA 33+50 TO STA 33+70

### TYPICAL CROSS SECTIONS

NO SCALE

X-3

**STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION**

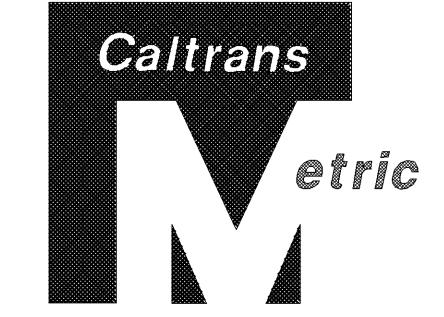
**Caltrans PROJECT DEVELOPMENT JOHN BULLARD**

DATE REVISED BY  
DATE REVISED

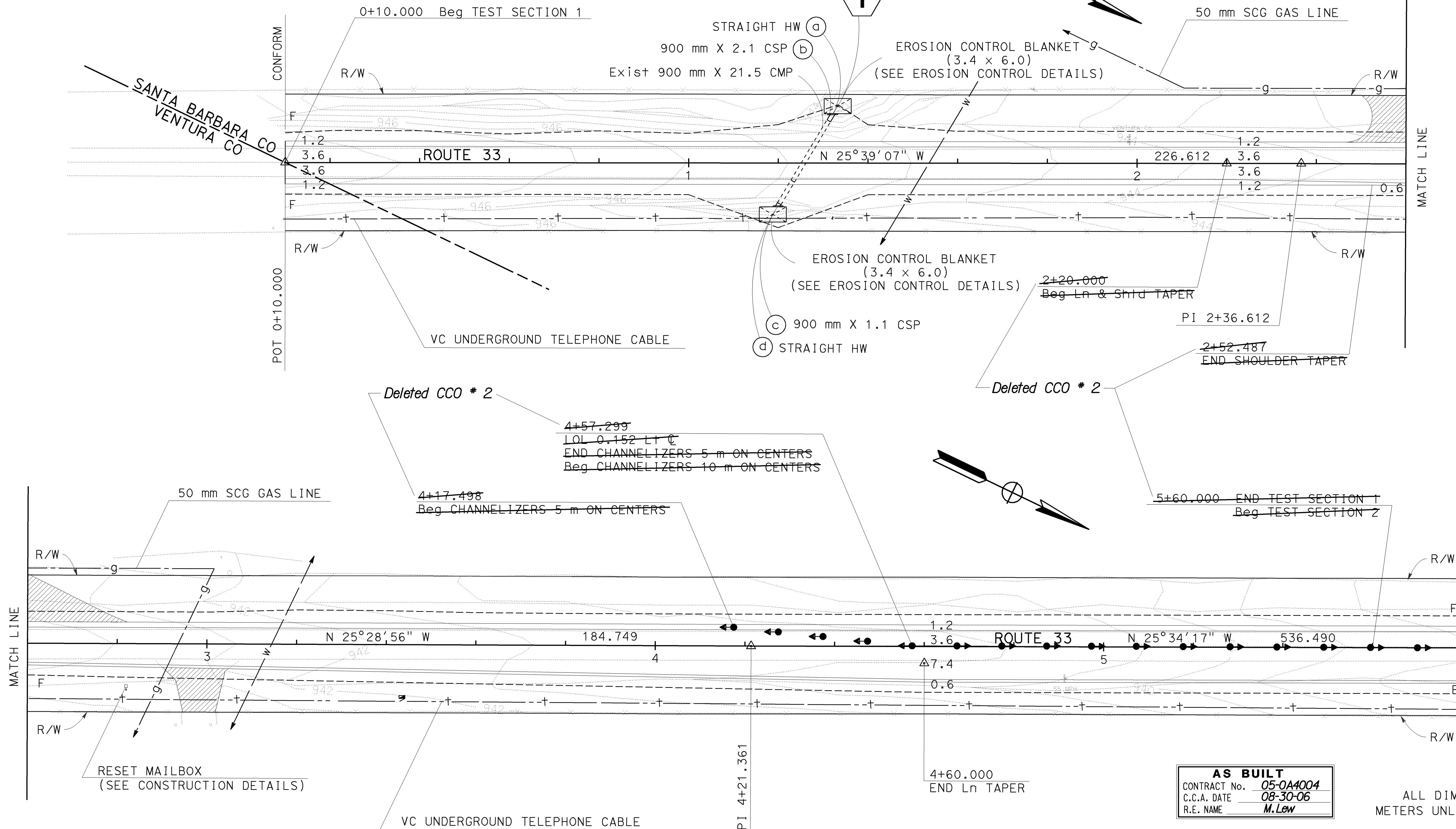
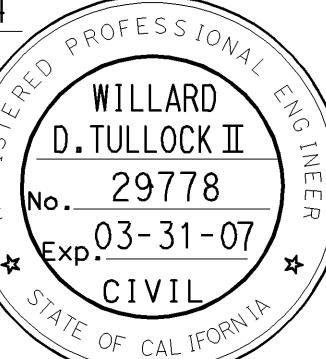
- NOTES:**
1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
  2. GRADE EXISTING UNPAVED DRIVEWAYS TO MATCH SHOULDER.
  3. ALL UTILITIES SHOWN ARE EXISTING AND ARE NOT TO BE MOVED UNLESS OTHERWISE NOTED.
  4. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.
  5. RESET MAILBOXES AS DETERMINED BY THE ENGINEER.

**LEGEND:**

|  |  |  |                               |
|--|--|--|-------------------------------|
|  | UNPAVED DRIVEWAY                                 |  | GRADE TO DRAIN                |
|  | PAVED STREET INTERSECTION                        |  | AERIAL ELECTRIC               |
|  | CURVE No.  |  | AERIAL TELEPHONE              |
|  | DRAINAGE SYSTEM No.                              |  | Exist UTILITY CABINET         |
|  | DRAINAGE UNIT No.                                |  | PG&E PACIFIC GAS AND ELECTRIC |
|  | COLD PLANE AREAS                                 |  | SCG SOUTHERN CALIFORNIA GAS   |
|  | REPLACE AC SURFACING                             |  | VC VERIZON COMMUNICATIONS     |
|  | CHANNELIZER (SURFACE MOUNTED)<br>(LEFT IN PLACE) |  |                               |



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| Willard 10-18-04<br>REGISTERED CIVIL ENGINEER  |        |       |                                 |          |              |
| 11-29-04<br>PLANS APPROVAL DATE  |        |       |                                 |          |              |
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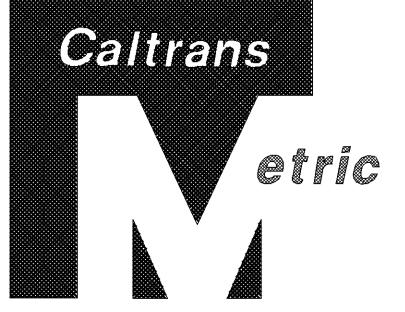
**AS BUILT**  
CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN

**LAYOUT**

SCALE: 1:500 L-1

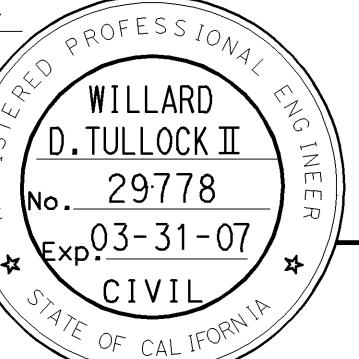
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| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 6        | 155                       |
|      |        |       | Willard                         | 10-18-04 | REGISTERED CIVIL ENGINEER |
|      |        |       |                                 | 11-29-04 | PLANS APPROVAL DATE       |

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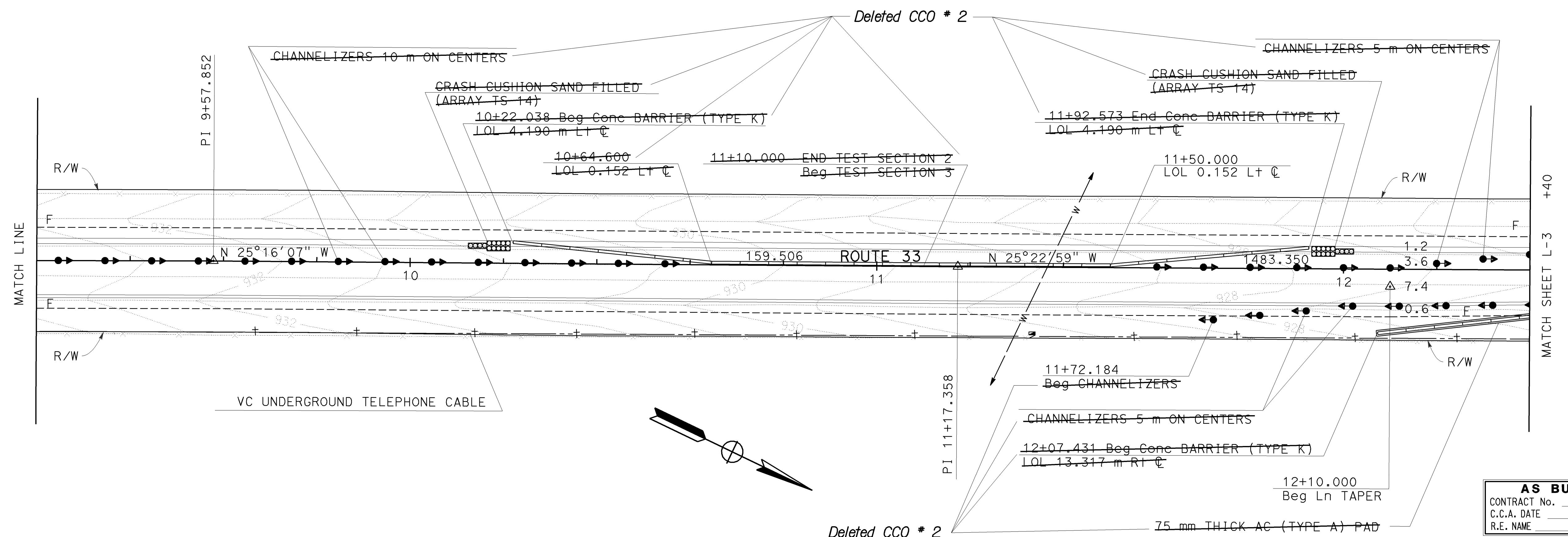
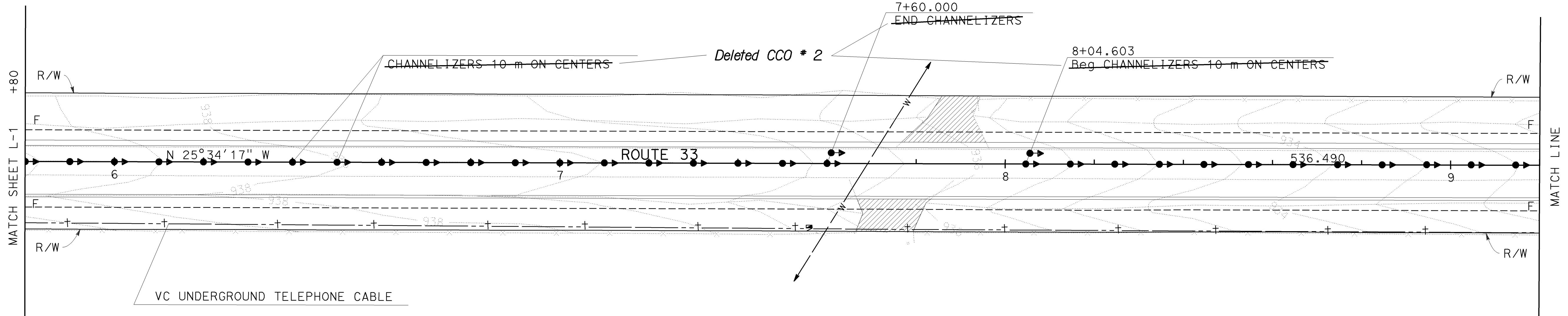
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

JOHN BULLARD

CALCULATED BY  
DESIGNED BY  
CHECKED BY



AS BUILT  
CONTRACT NO. 05-0A1004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

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## AYOUT

SCALE: 1:500 L-2

X

**STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION**  
**Caltrans PROJECT DEVELOPMENT**

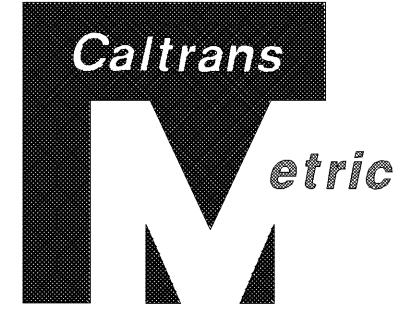
DATE REVISED BY  
DATE REVISED

CALCULATED/  
DESIGNED BY  
CHECKED BY

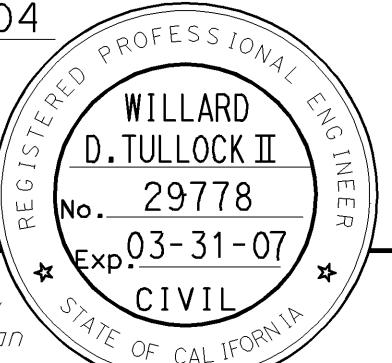
PROJECT ENGINEER  
**JOHN BULLARD**

X

- NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
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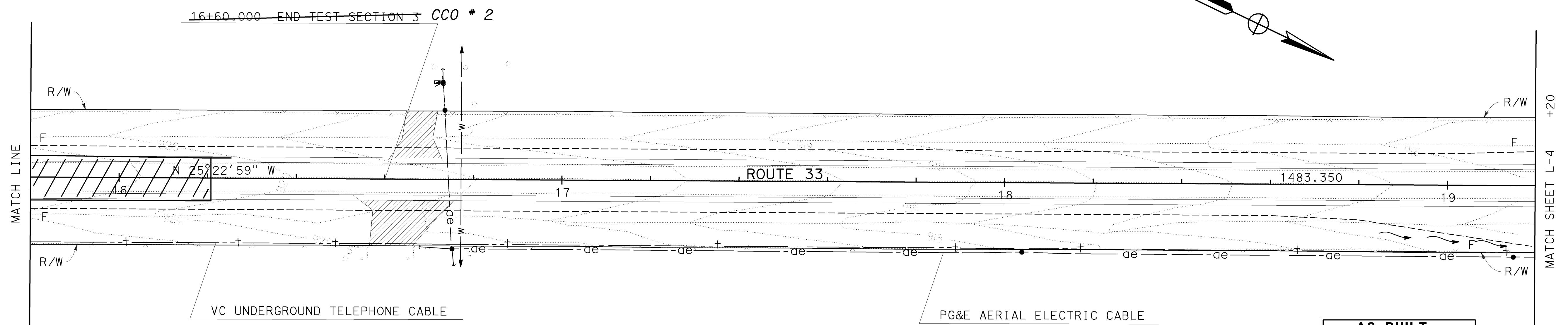
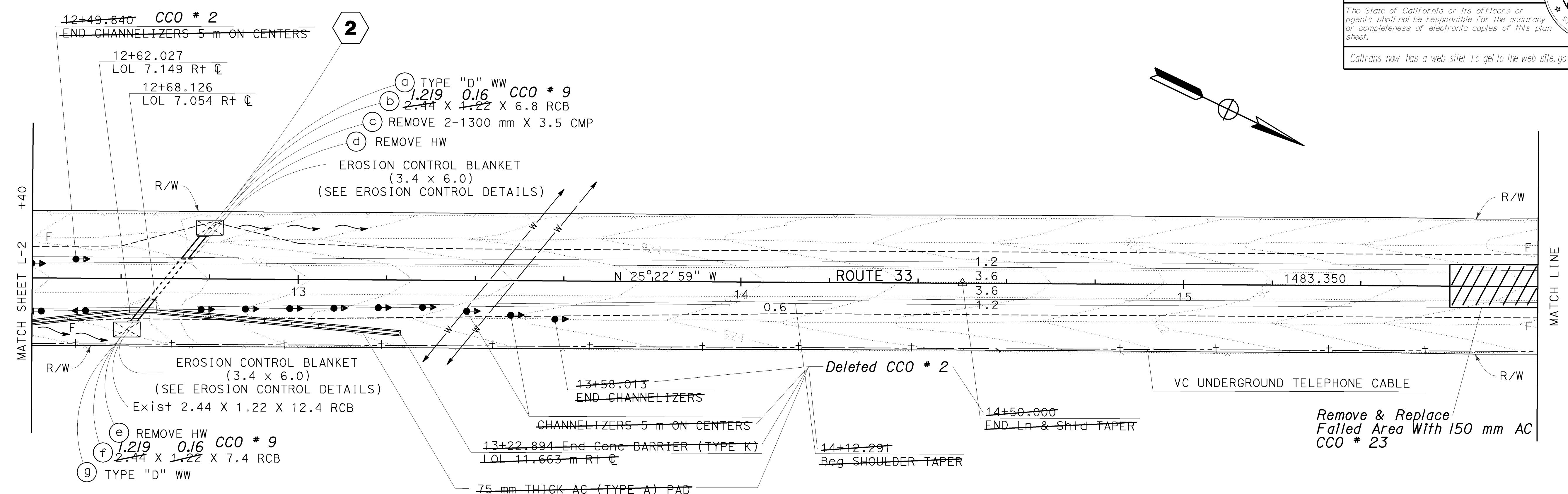


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|------|--------|-------|---------------------------------|----------|--------------|
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 7        | 155          |
|      |        |       | Willard<br>10-18-04             |          |              |



11-29-04  
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**AS BUILT**  
CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M.Lew

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

## LAYOUT

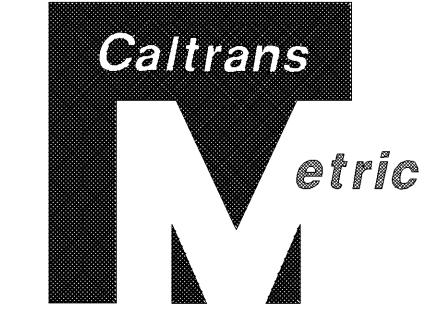
SCALE: 1:500 L-3

**STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION**

**Caltrans PROJECT DEVELOPMENT**

**V. CASTILLO**

- NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
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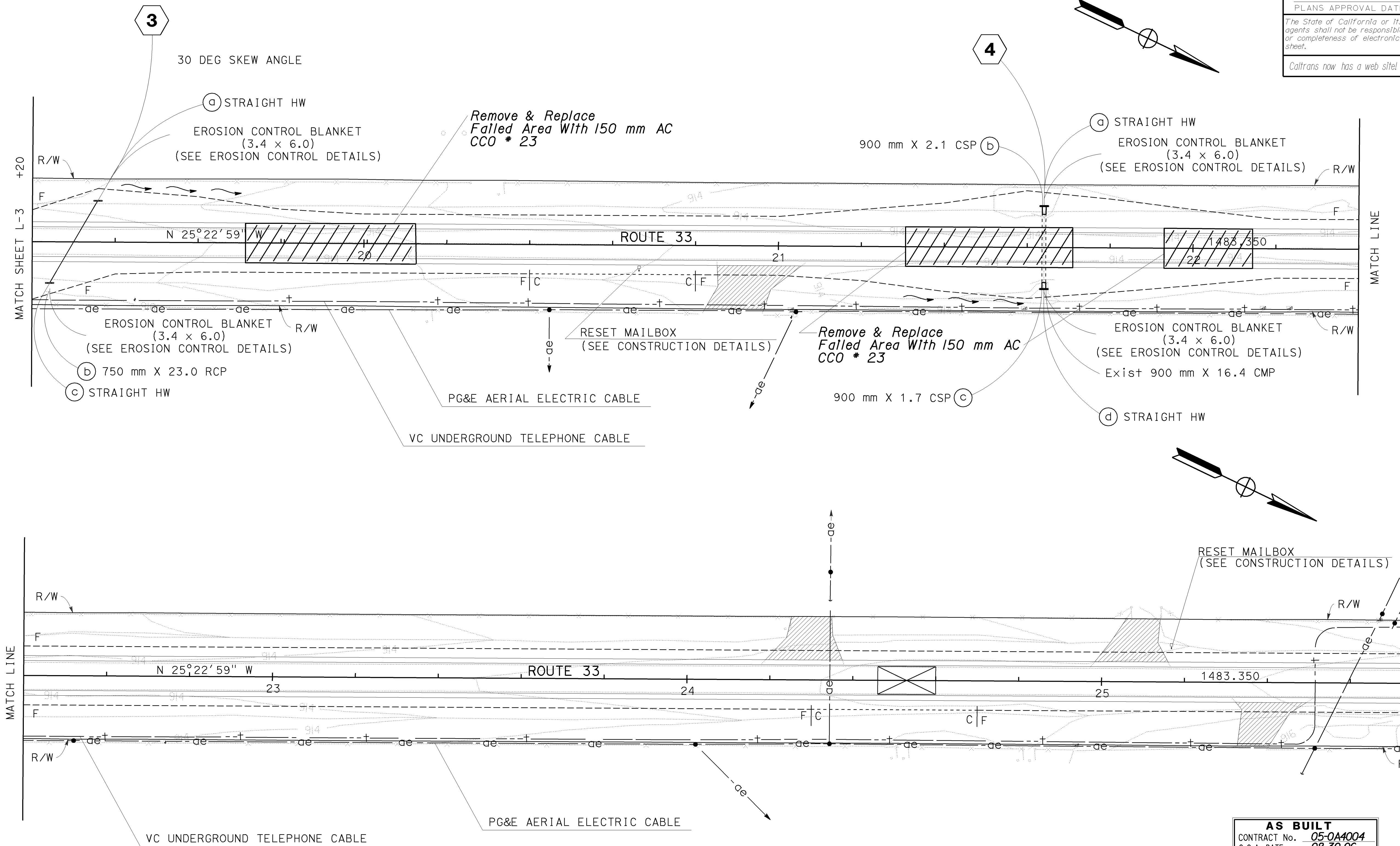
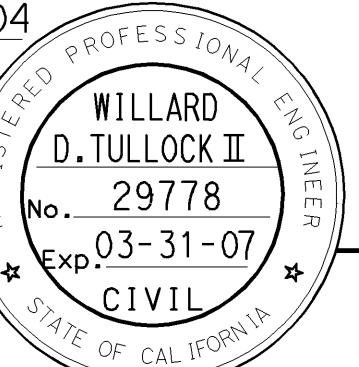


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|------|--------|-------|---------------------------------|----------|---------------------------|
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 8        | 155                       |
|      |        |       | Willard                         | 01-26-04 | REGISTERED CIVIL ENGINEER |

11-29-04 PLANS APPROVAL DATE

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CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

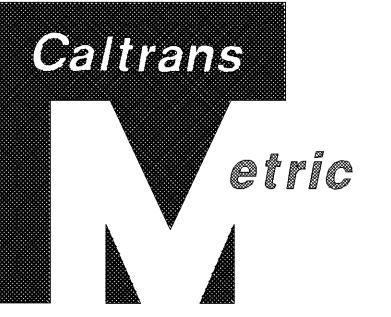
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

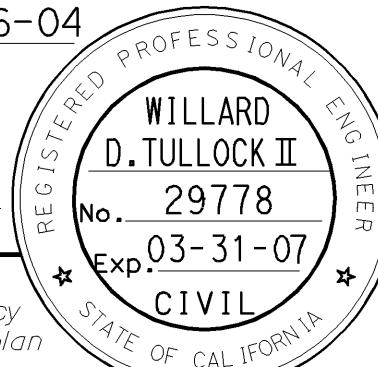
**LAYOUT**

SCALE: 1:500

**L-4**

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|--|---------|-------|---------------------------------|-------------|-----------------|
| 05   | SB, SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 9           | 155             |
|  <span style="margin-left: 100px;"><u>01-26-04</u></span>         |         |       |                                 |             |                 |
| REGISTERED CIVIL ENGINEER  |         |       |                                 |             |                 |
| <u>11-29-04</u><br><hr/> PLANS APPROVAL DATE   |         |       |                                 |             |                 |
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|   |         |       |                                 |             |                 |
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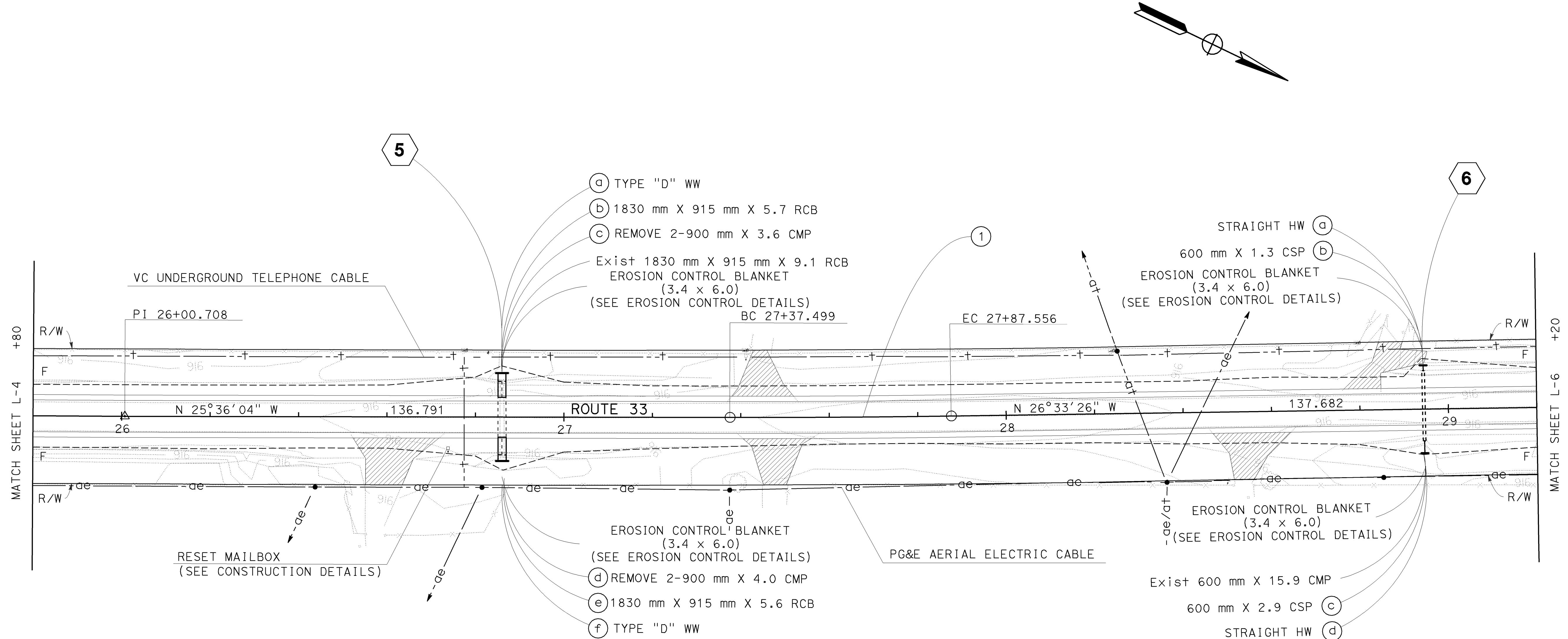
## CURVE DATA

| No. | R       | $\Delta$          | T      | L      |
|-----|---------|-------------------|--------|--------|
| ①   | 3000.00 | $0^\circ 57'22''$ | 25.029 | 50.056 |

|   |   |   |
|---|---|---|
| <p><b>STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION</b></p> <p><b><i>Alturas Project Development</i></b></p> | <p>PROJECT ENGINEER</p> <p><b>V. CASTILLO</b></p> | <p>CALCULATED /<br/>DESIGNED BY</p> <p>CHECKED BY</p> |
|---|---|---|

V. CASTILLO

## *Sultans* PROJECT DEVELOPMENT



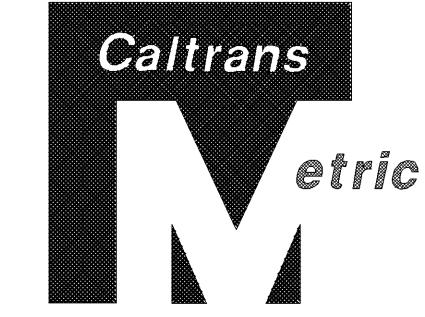
**AS BUILT**  
NO CORRECTIONS ON THIS SHEET)  
CONTRACT No. 05-0A4004  
C.A. DATE 08-30-06  
F. NAME M. Lew

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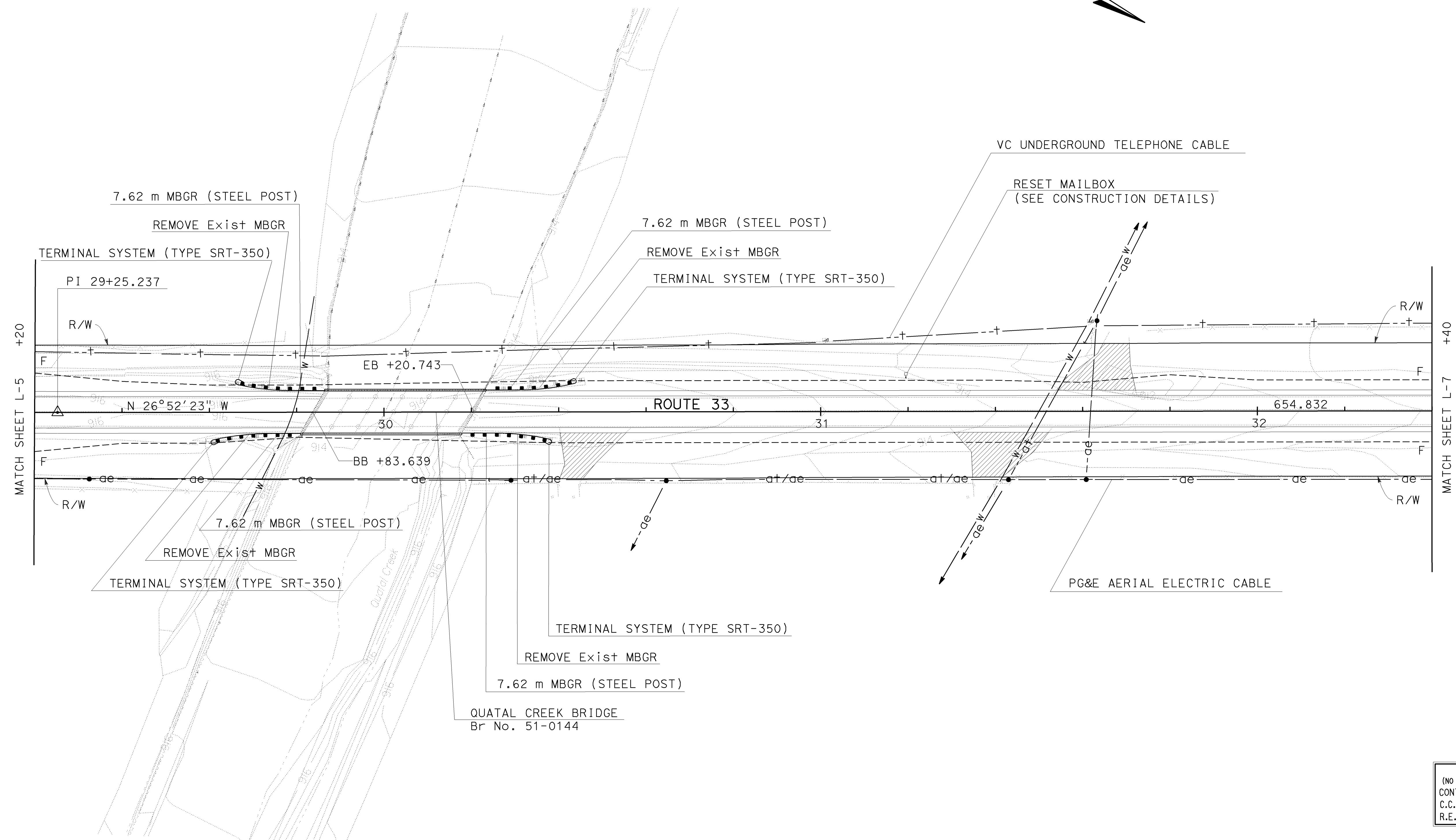
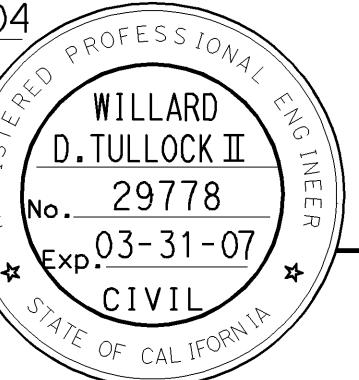
# Layout

SCALE: 1:500 L-5

NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
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|   |        |       |                                 |          |              |
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| 05  | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 10       | 155          |
| <p>01-26-04<br/>REGISTERED CIVIL ENGINEER<br/>11-29-04<br/>PLANS APPROVAL DATE</p>  |        |       |                                 |          |              |
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**AS BUILT**  
(NO CORRECTIONS ON THIS SHEET)  
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R.E. NAME M. Low

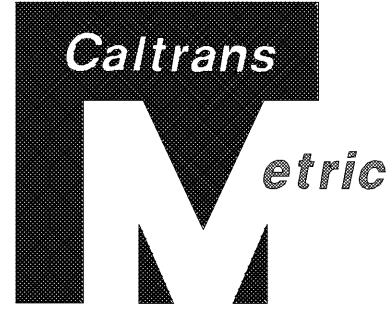
ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN

## LAYOUT

SCALE: 1:500 L-6

NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

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Willard

01-26-04

REGISTERED CIVIL ENGINEER

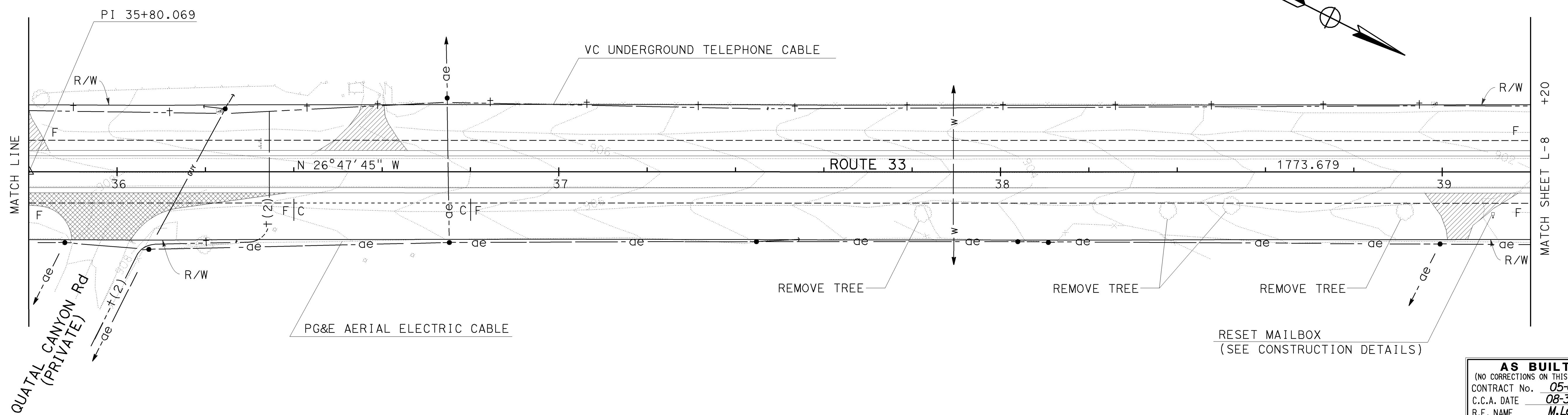
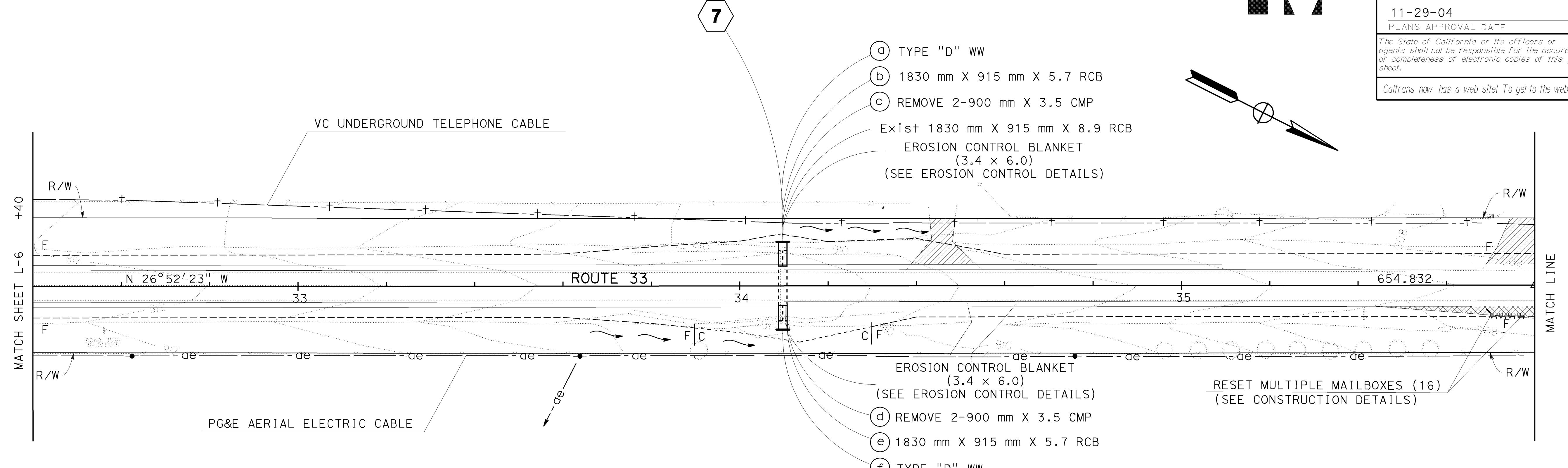
11-29-04

PLANS APPROVAL DATE

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WILLARD  
D. TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

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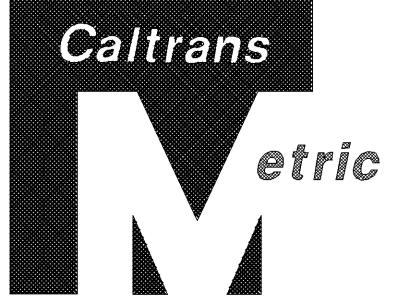
# LAYOUT

SCALE: 1:500

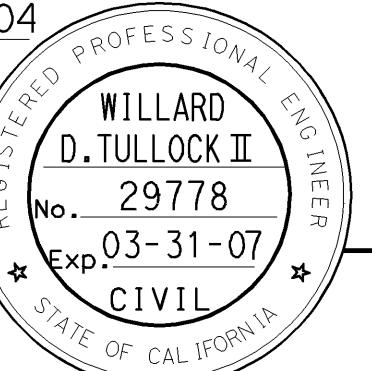
- 7

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NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
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|  |        |       |                                 |          |              |
|--|--------|-------|---------------------------------|----------|--------------|
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| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 12       | 155          |
| Wilbur 01-26-04<br>REGISTERED PROFESSIONAL CIVIL ENGINEER  |        |       |                                 |          |              |
| 11-29-04 PLANS APPROVAL DATE   |        |       |                                 |          |              |
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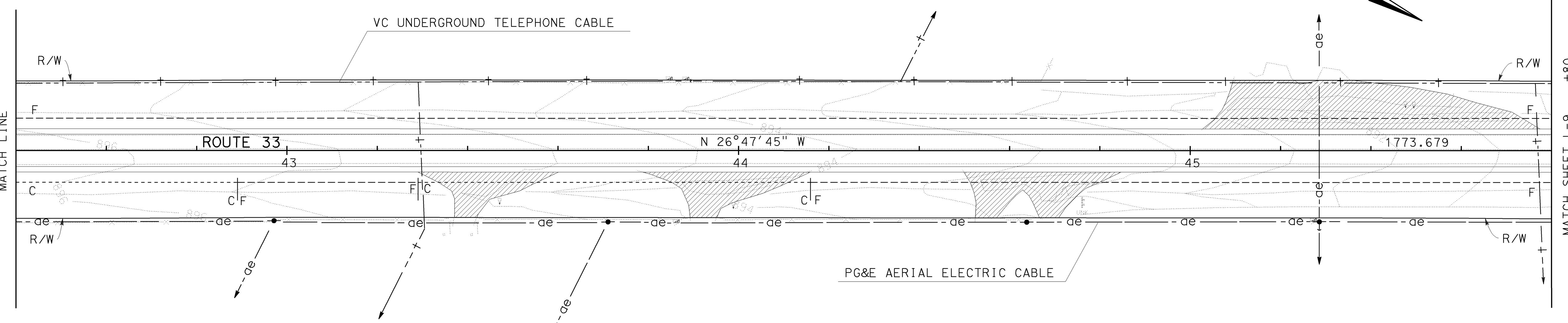
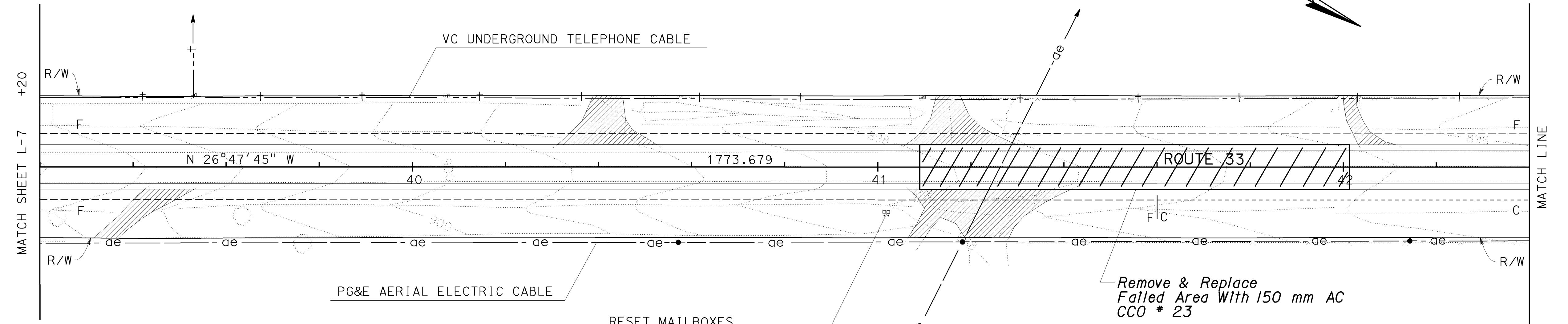
DATE REVISED BY  
DATE REVISED

CALCULATED/  
DESIGNED BY  
CHECKED BY

PROJECT ENGINEER  
V. CASTILLO

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans



**AS BUILT**  
CONTRACT NO. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

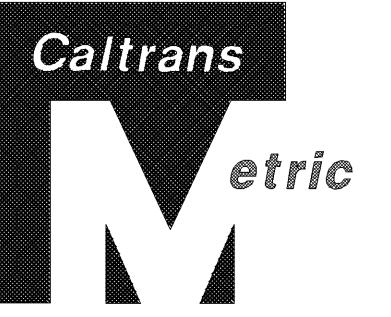
ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN

## LAYOUT

SCALE: 1:500 L-8



NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



|      |        |       |                                 |          |              |
|------|--------|-------|---------------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 14       | 155          |

01-26-04  
REGISTERED CIVIL ENGINEER  
WILLARD D.TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

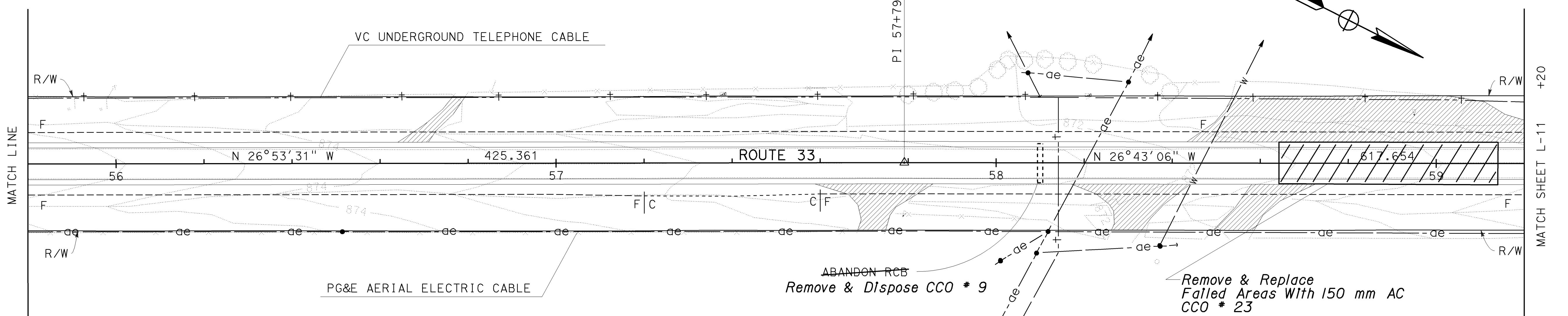
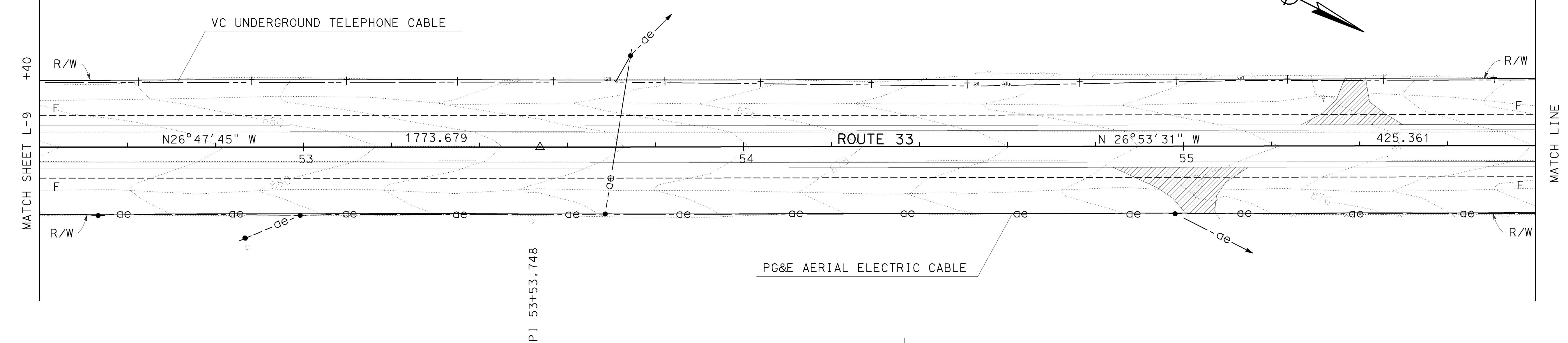
11-29-04  
PLANS APPROVAL DATE  
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**STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION**

**Caltrans PROJECT DEVELOPMENT V. CASTILLO**

CALCULATED BY  
DESIGNED BY  
CHECKED BY



**AS BUILT**  
CONTRACT NO. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN

**LAYOUT**

SCALE: 1:500 **L-10**

# *et Galtang* PROJECT DEVELOPMENT V. CASTILLO

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
PROJECT ENGINEER

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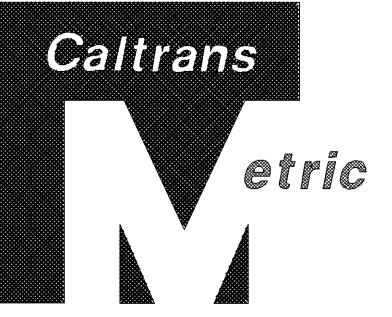
**PROJECT ENGINEER**

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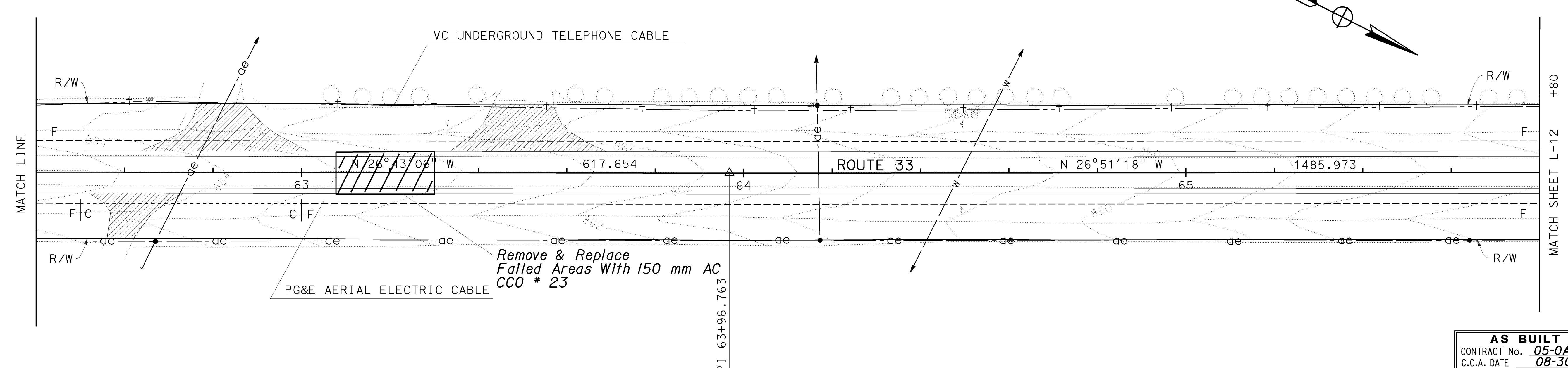
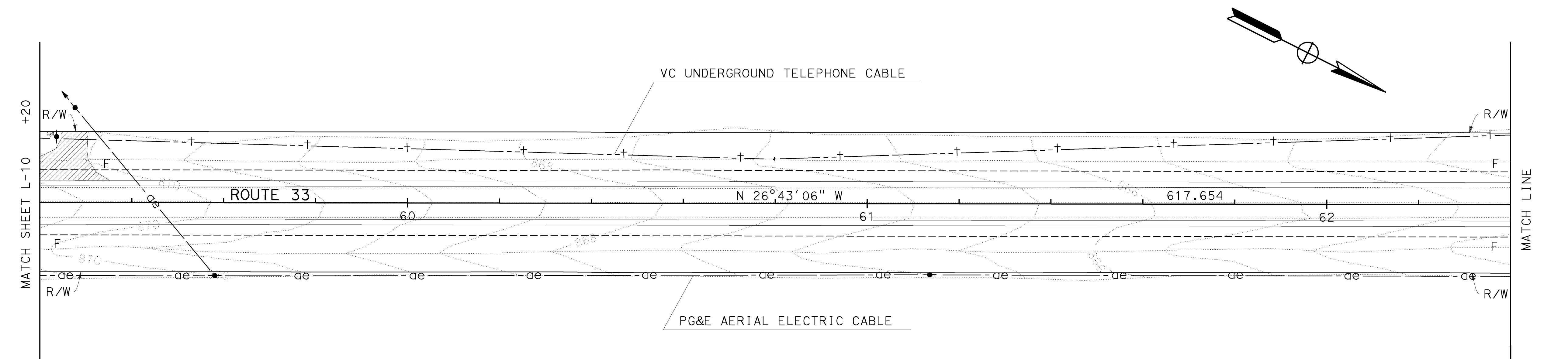
DEPARTMENT OF TRANSPORTATION

NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



| DIST  | COUNTY  | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET<br>No | TOTAL<br>SHEETS |
|---|---------|-------|---------------------------------|-------------|-----------------|
| 05  | SB, SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 15          | 155             |
|   |         |       | <u>Willard</u>                  | 01-26-04    |                 |
| REGISTERED CIVIL ENGINEER   |         |       |                                 |             |                 |
| <u>11-29-04</u>   |         |       |                                 |             |                 |
| PLANS APPROVAL DATE   |         |       |                                 |             |                 |
| <p>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</p> |         |       |                                 |             |                 |



**AS BUILT**  
CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

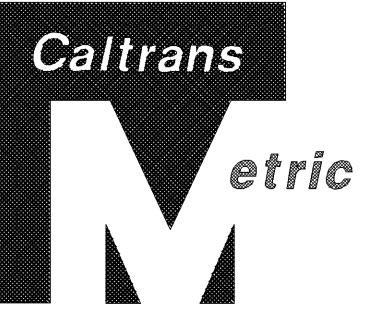
ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN

# LAYOUT

SCALE: 1:500 L-11



NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



|      |        |       |                                 |          |              |
|------|--------|-------|---------------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 17       | 155          |

01-26-04  
REGISTERED CIVIL ENGINEER  
WILLARD D.TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

11-29-04  
PLANS APPROVAL DATE  
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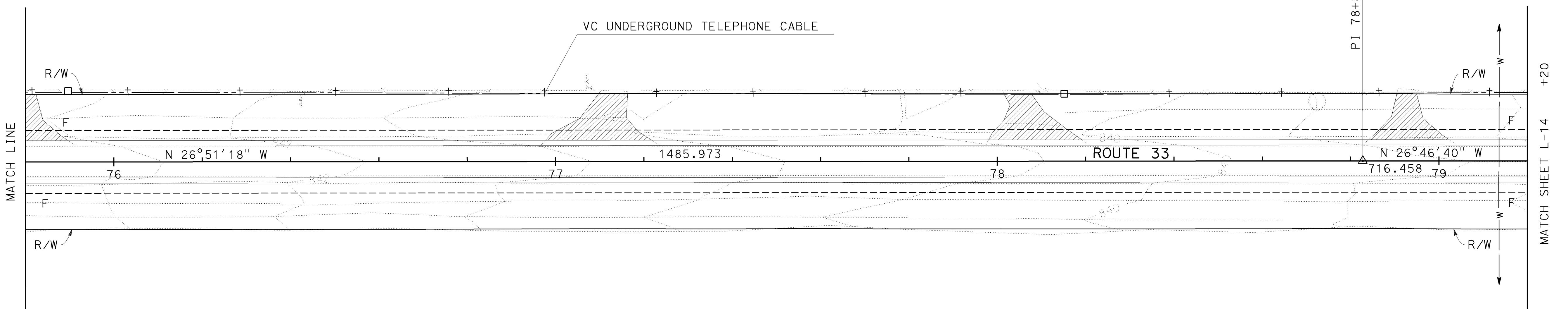
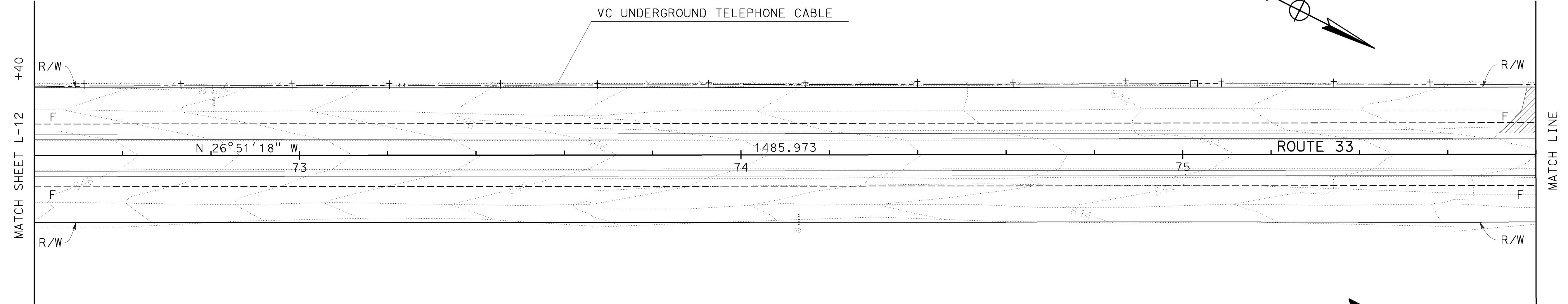
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DATE REVISED BY  
DATE REVISED

CALCULATED BY  
DESIGNED BY  
CHECKED BY

PROJECT ENGINEER  
V. CASTILLO

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** PROJECT DEVELOPMENT



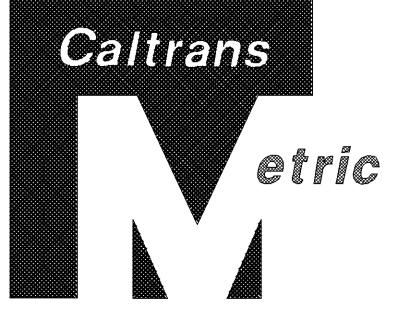
**AS BUILT**  
(NO CORRECTIONS ON THIS SHEET)  
CONTRACT NO. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

ALL DIMENSIONS ARE IN  
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## AYOUT

SCALE: 1:500 L-13

NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



|      |        |       |                                 |          |              |
|------|--------|-------|---------------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 18       | 155          |

01-26-04  
REGISTERED CIVIL ENGINEER  
WILLARD D. TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

11-29-04  
PLANS APPROVAL DATE  
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**STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION**

**Caltrans PROJECT DEVELOPMENT V. CASTILLO**

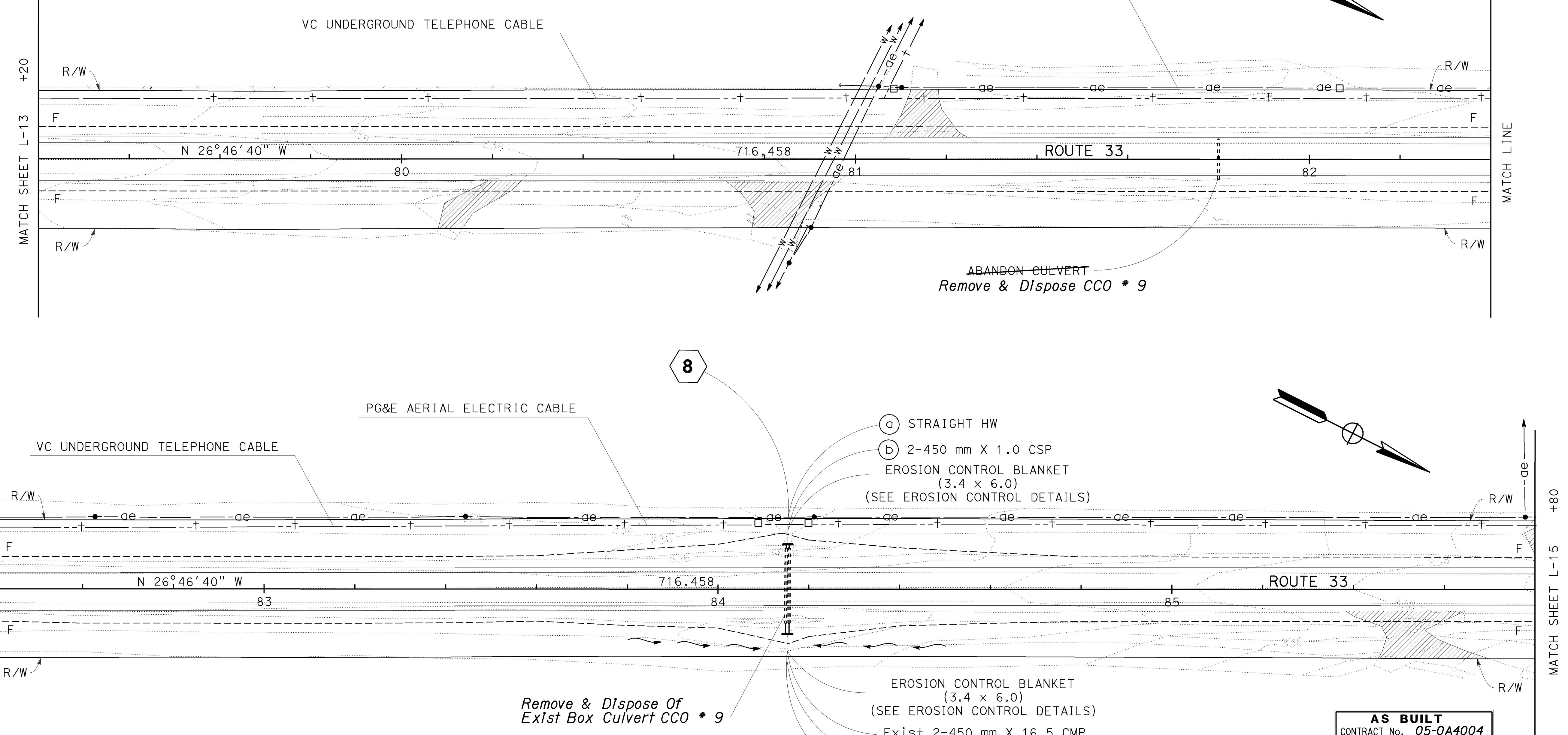
CALCULATED BY

DESIGNED BY

PROJECT ENGINEER

MATCH LINE

CHECKED BY



ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN

**LAYOUT**

SCALE: 1:500 L-14

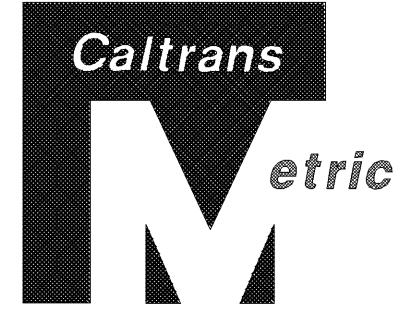
**STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION**

**Caltrans PROJECT DEVELOPMENT**

**V. CASTILLO**

|               |             |                  |
|---------------|-------------|------------------|
| CALCULATED BY | DESIGNED BY | PROJECT ENGINEER |
| CHECKED BY    |             |                  |

- NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.

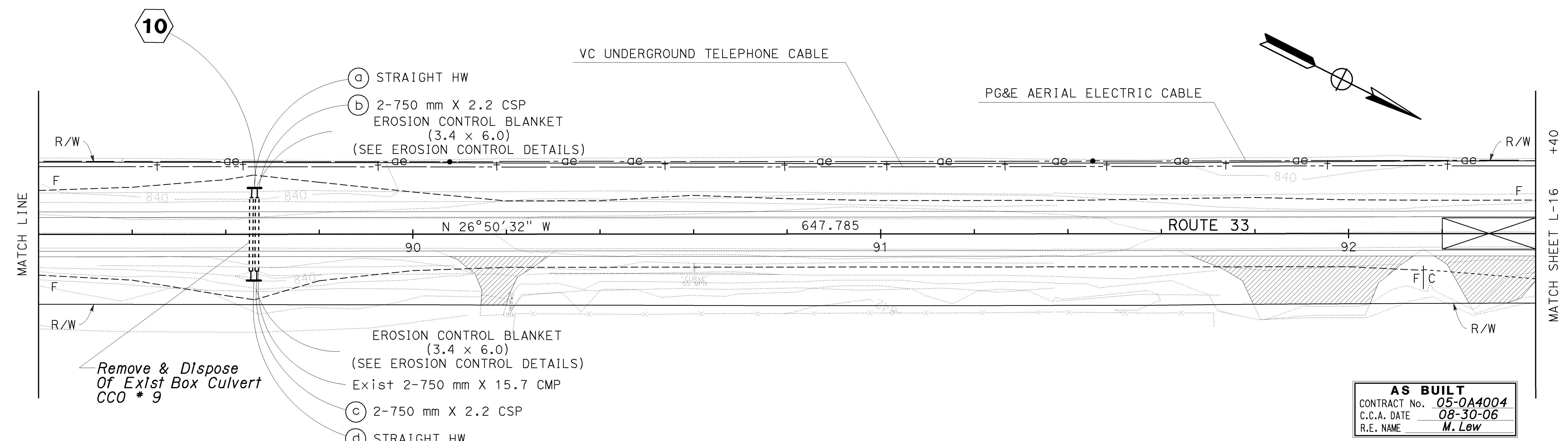
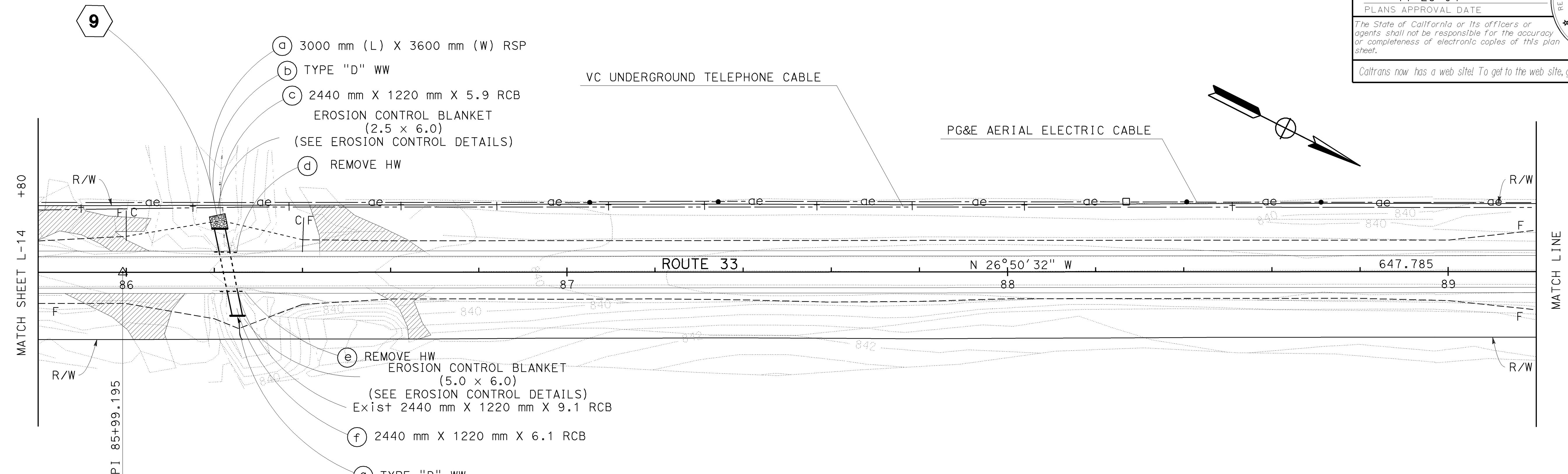


|      |        |       |                                 |          |              |
|------|--------|-------|---------------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 19       | 155          |

Willard  
01-26-04  
REGISTERED PROFESSIONAL ENG  
WILLARD D.TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

11-29-04  
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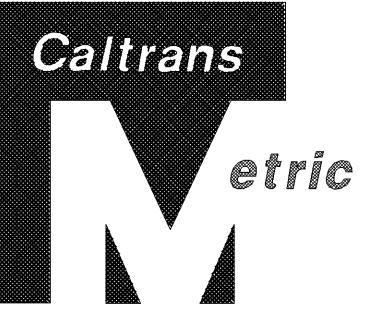
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

## LAYOUT

SCALE: 1:500 L-15



NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



|      |        |       |                                 |                          |
|------|--------|-------|---------------------------------|--------------------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO<br>TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 21 155                   |

01-26-04  
REGISTERED CIVIL ENGINEER  
WILLARD D.TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

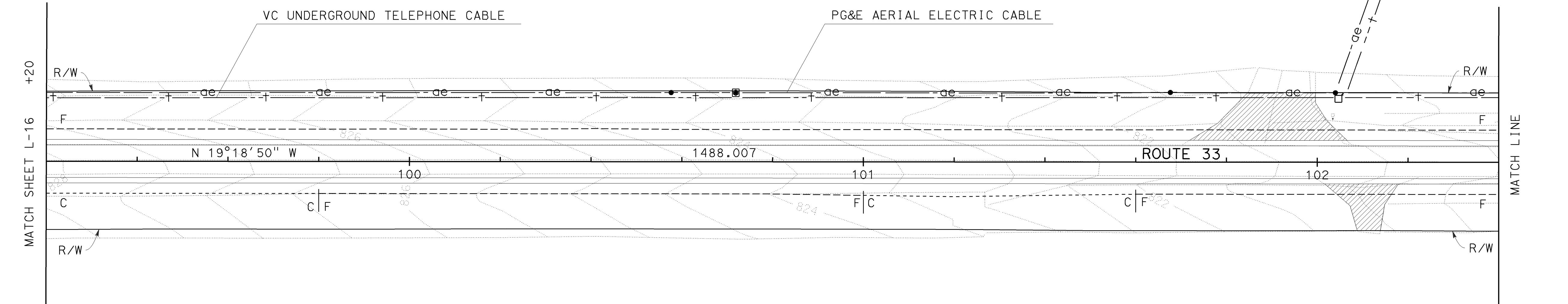
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**STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION** **V. CASTILLO**

PROJECT ENGINEER

PROJECT DEVELOPMENT



**AS BUILT**  
CONTRACT NO. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

**LAYOUT**

SCALE: 1:500 **L-17**

NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.

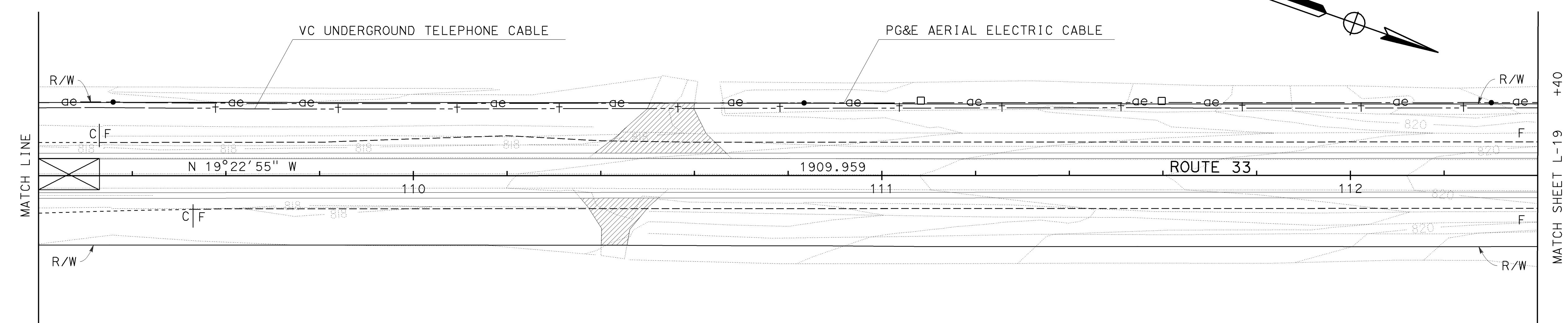
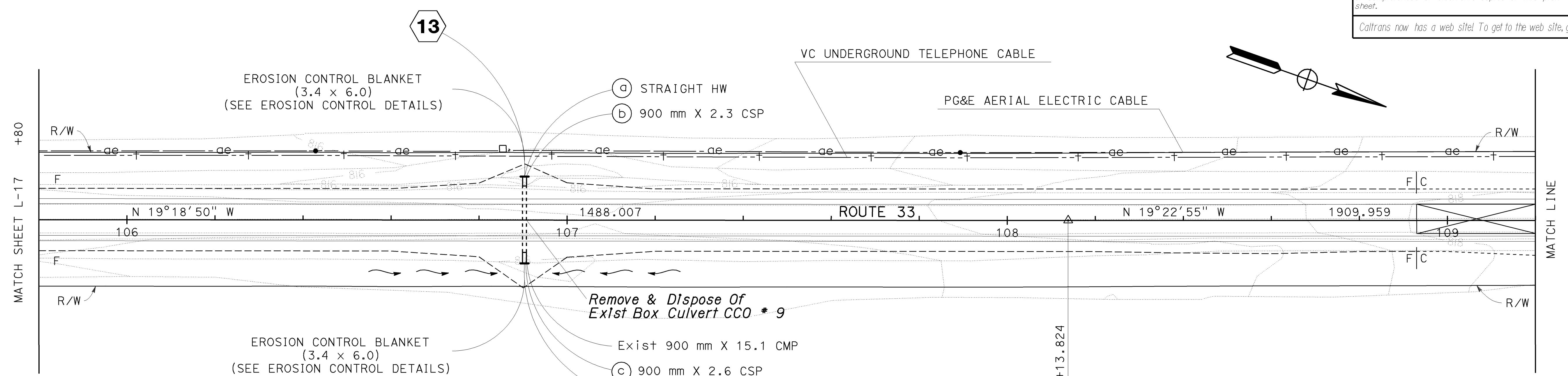


| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
|------|--------|-------|---------------------------------|----------|--------------|
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 22       | 155          |

01-26-04  
REGISTERED PROFESSIONAL ENG  
WILLARD D.TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

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**AS BUILT**  
CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

## LAYOUT

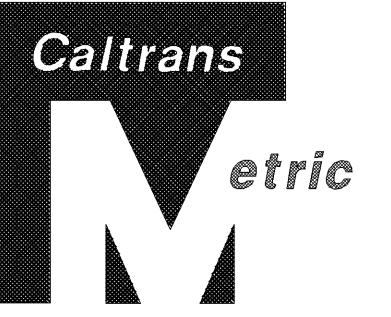
SCALE: 1:500 **L-18**

**STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION**

**Caltrans PROJECT DEVELOPMENT V. CASTILLO**

CALCULATED/  
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NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.

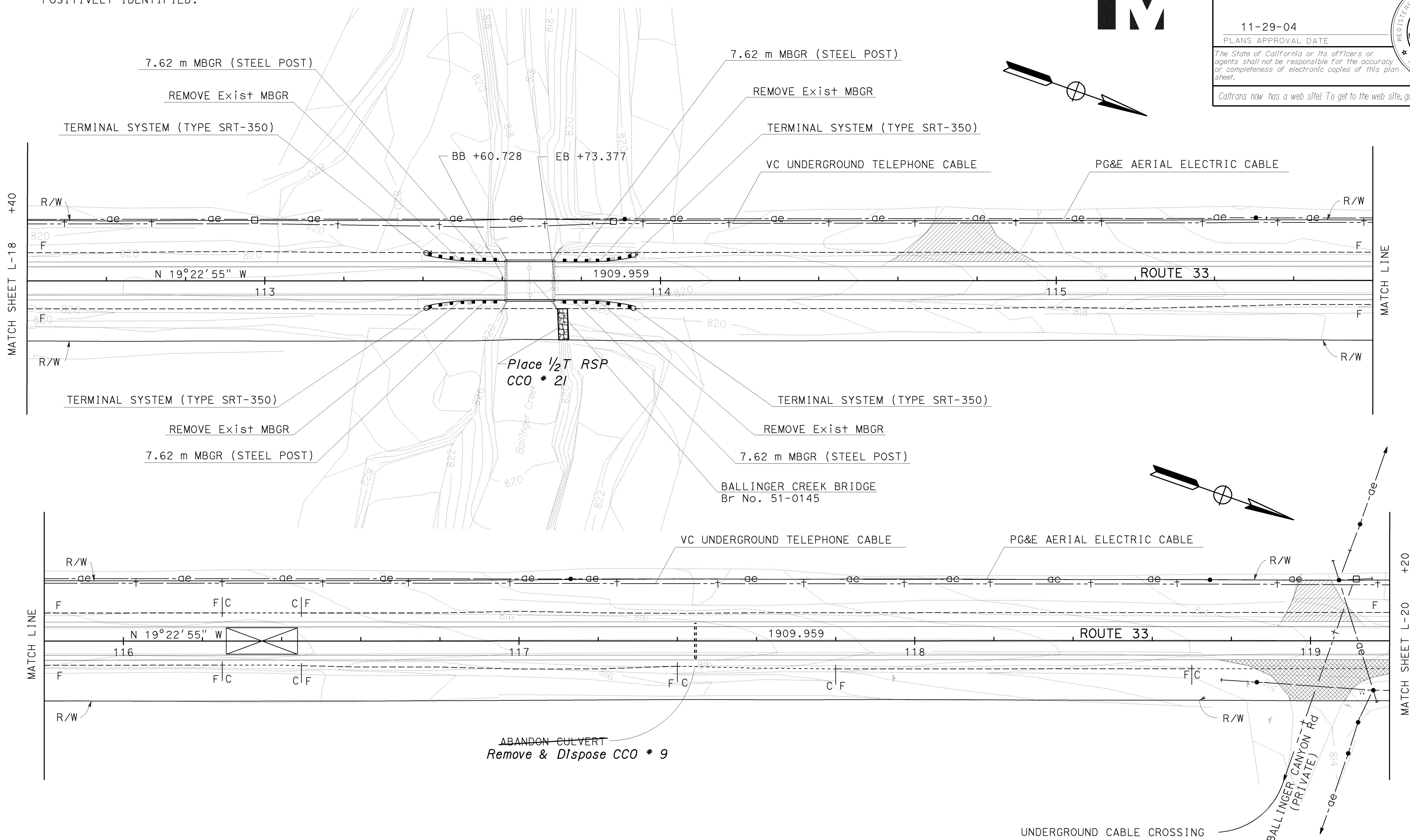


| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
|------|--------|-------|---------------------------------|----------|--------------|
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 23       | 155          |

01-26-04  
REGISTERED PROFESSIONAL ENG  
WILLARD D.TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

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CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

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METERS UNLESS OTHERWISE SHOWN

**LAYOUT**

SCALE: 1:500

**L-19**



NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



|      |        |       |                                 |             |                 |
|------|--------|-------|---------------------------------|-------------|-----------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET<br>No | TOTAL<br>SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 25          | 155             |

01-26-04  
REGISTERED CIVIL ENGINEER  
WILLARD D.TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

11-29-04  
PLANS APPROVAL DATE  
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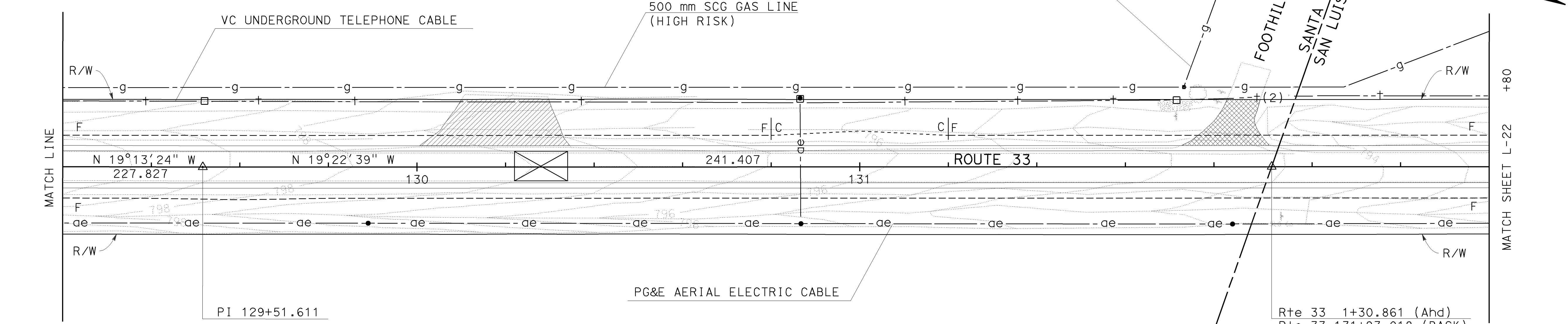
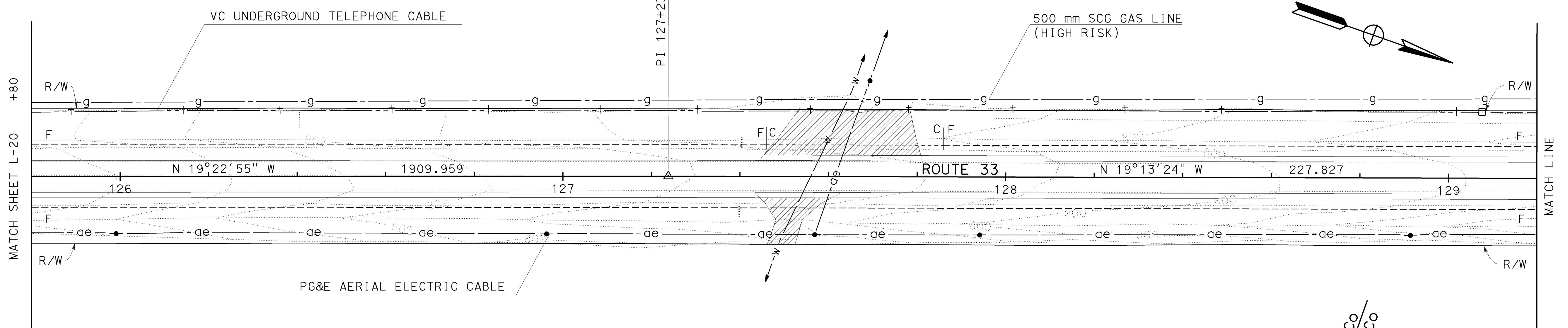
DATE REVISED BY  
DATE REVISED

CALCULATED/  
DESIGNED BY  
CHECKED BY

PROJECT ENGINEER  
**V. CASTILLO**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

**Caltrans**



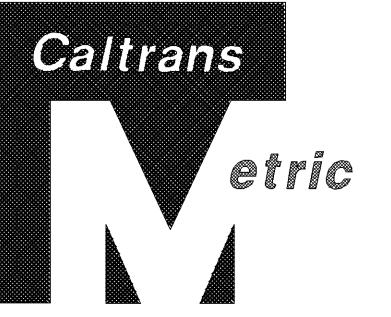
**AS BUILT**  
(NO CORRECTIONS ON THIS SHEET)  
CONTRACT NO. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

## LAYOUT

SCALE: 1:500 **L-21**

NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.

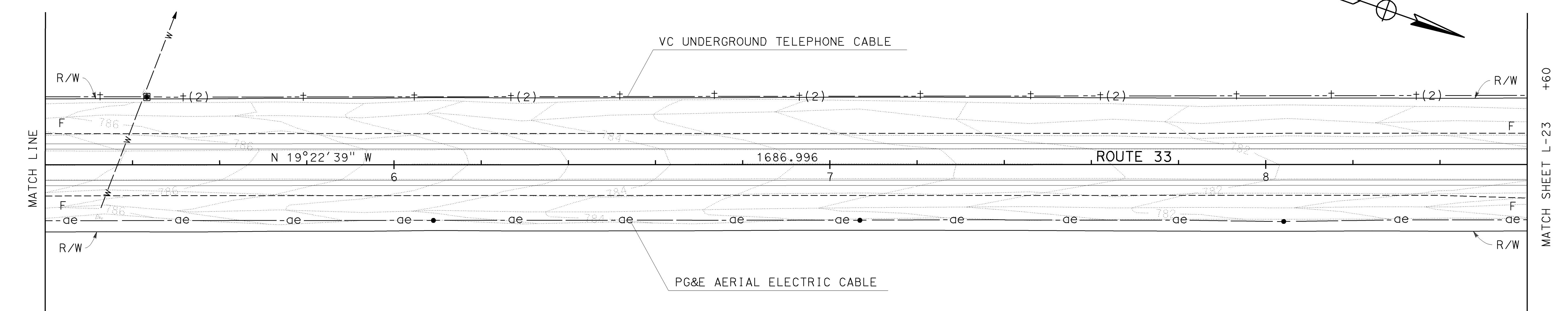
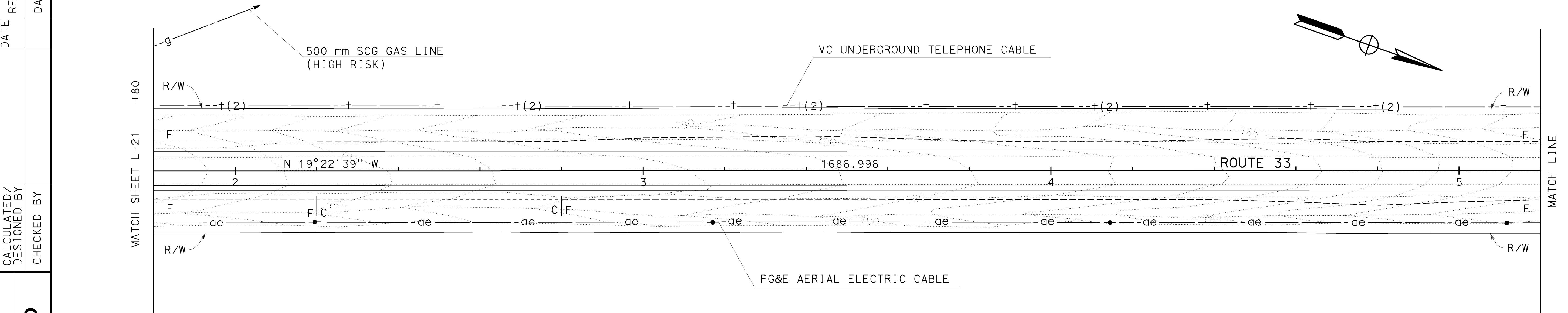


|      |        |       |                                 |             |                 |
|------|--------|-------|---------------------------------|-------------|-----------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET<br>No | TOTAL<br>SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 26          | 155             |

01-26-04  
REGISTERED CIVIL ENGINEER  
WILLARD D.TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

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CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN

## LAYOUT

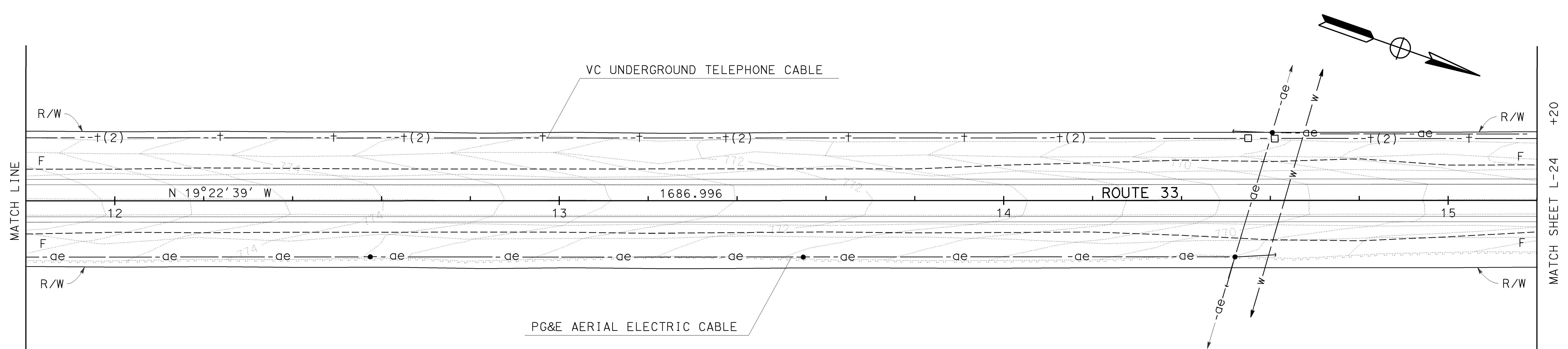
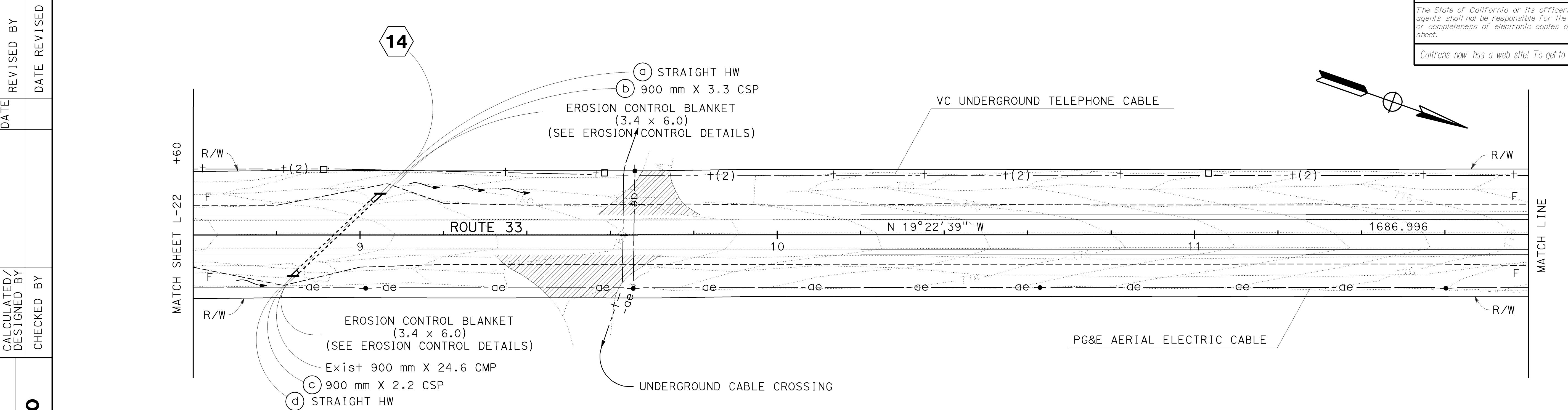
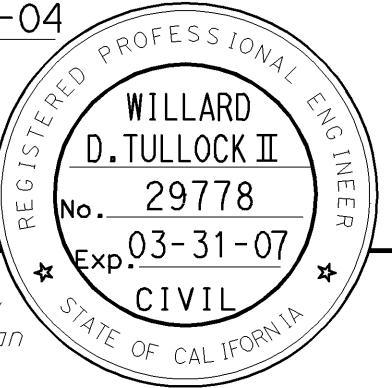
SCALE: 1:500 L-22

NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHET NO  | TOTAL SHEETS              |
|------|--------|-------|---------------------------------|----------|---------------------------|
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 27       | 155                       |
|      |        |       | Willard                         | 01-26-04 | REGISTERED CIVIL ENGINEER |

01-26-04  
PLANS APPROVAL DATE  
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C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

## LAYOUT

SCALE: 1:500 L-23

NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



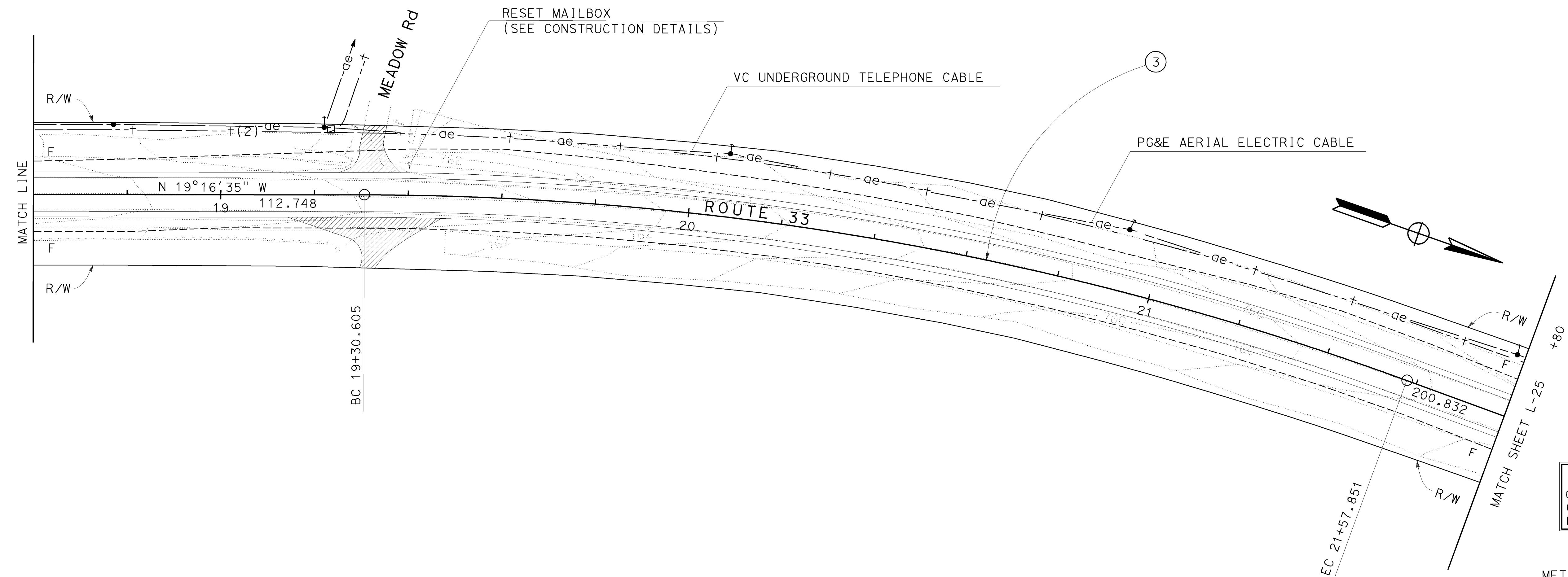
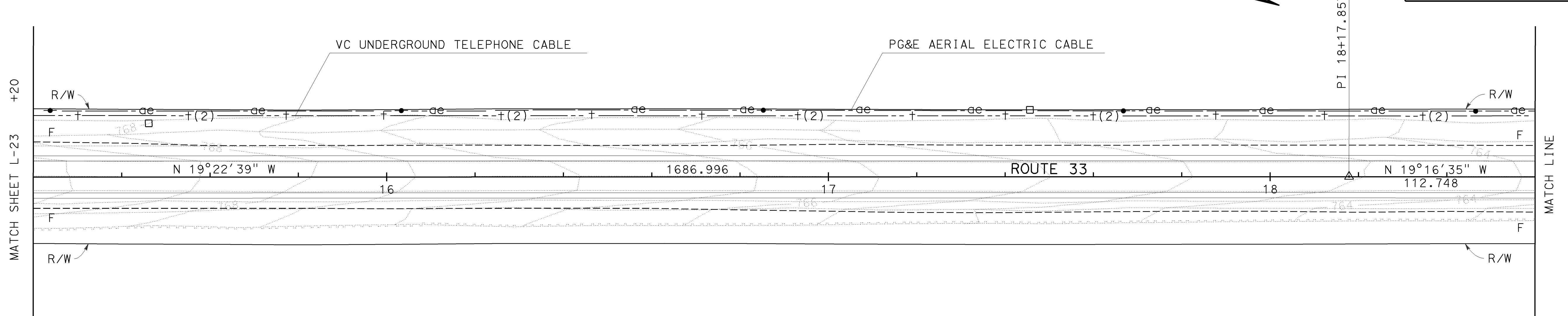
|      |        |       |                                 |          |              |
|------|--------|-------|---------------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 28       | 155          |

01-26-04  
REGISTERED PROFESSIONAL ENG  
WILLARD D.TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

11-29-04  
PLANS APPROVAL DATE  
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## CURVE DATA

| No. | R      | $\Delta$   | T       | L       |
|-----|--------|------------|---------|---------|
| (3) | 650.00 | 20° 1' 52" | 114.795 | 227.246 |



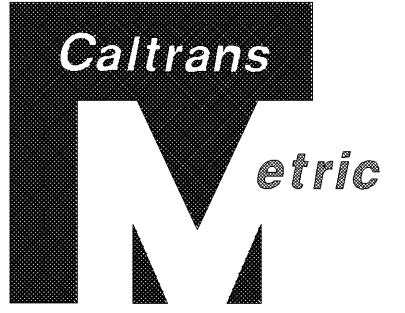
AS BUILT  
(NO CORRECTIONS ON THIS SHEET)  
CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

## LAYOUT

SCALE: 1:500 L-24

NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



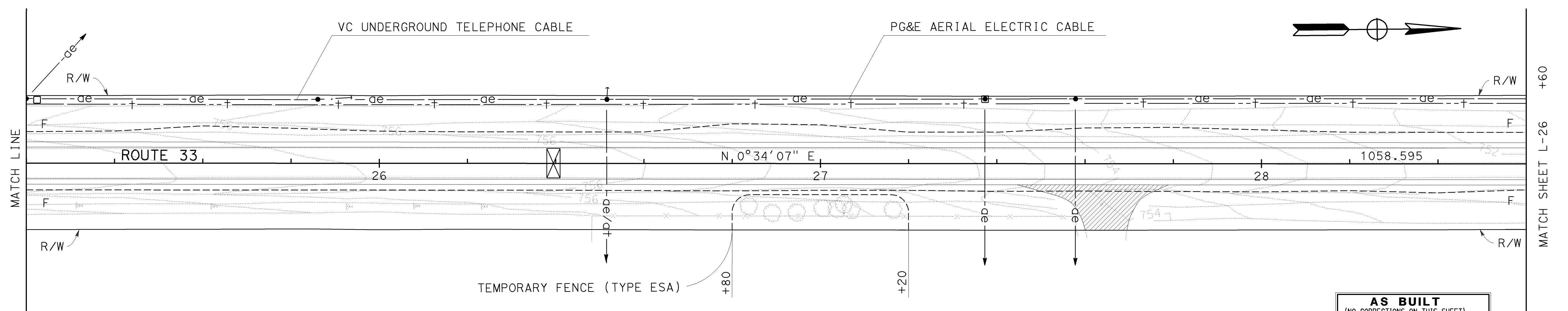
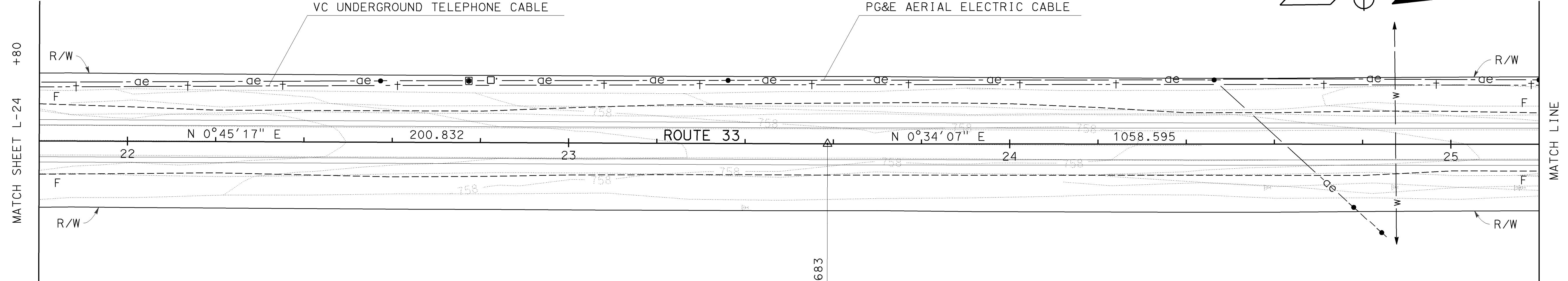
|  |        |       |   |          |                     |
|--|--------|-------|---|----------|---------------------|
| DIST   | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT   | SHEET NO | TOTAL SHEETS        |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0  | 29       | 155                 |
|  |        |       | <i>Willard</i>  | 01-26-04 | PLANS APPROVAL DATE |
|  |        |       | REGISTERED PROFESSIONAL ENG<br>WILLARD D.TULLOCK II<br>No. 29778<br>Exp. 03-31-07<br>CIVIL<br>STATE OF CALIFORNIA |          |                     |
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DATE REVISED BY  
DATE REVISED

CALCULATED/  
DESIGNED BY  
CHECKED BY

PROJECT ENGINEER  
**V. CASTILLO**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans PROJECT DEVELOPMENT**



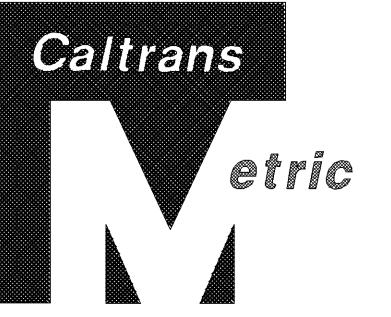
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

## LAYOUT

SCALE: 1:500 **L-25**



NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.

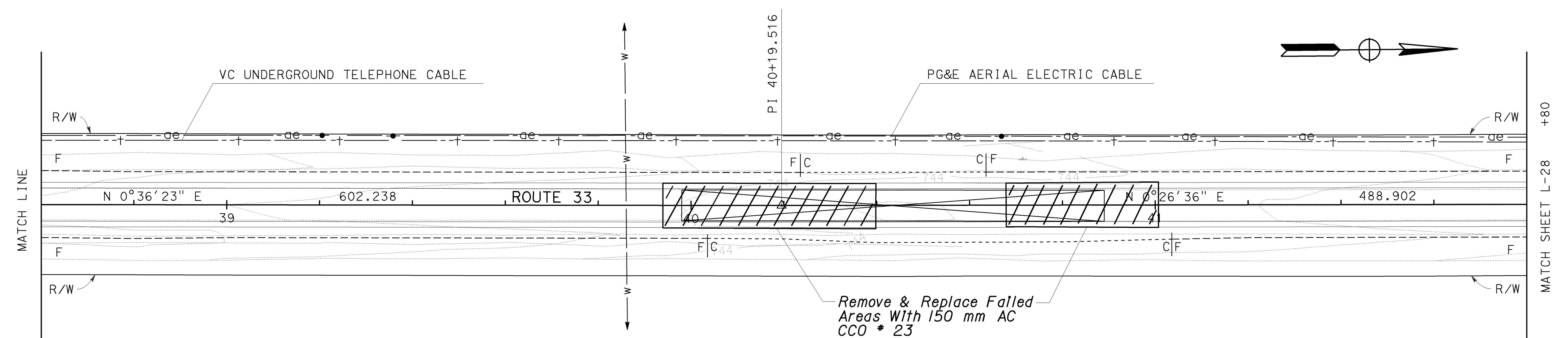
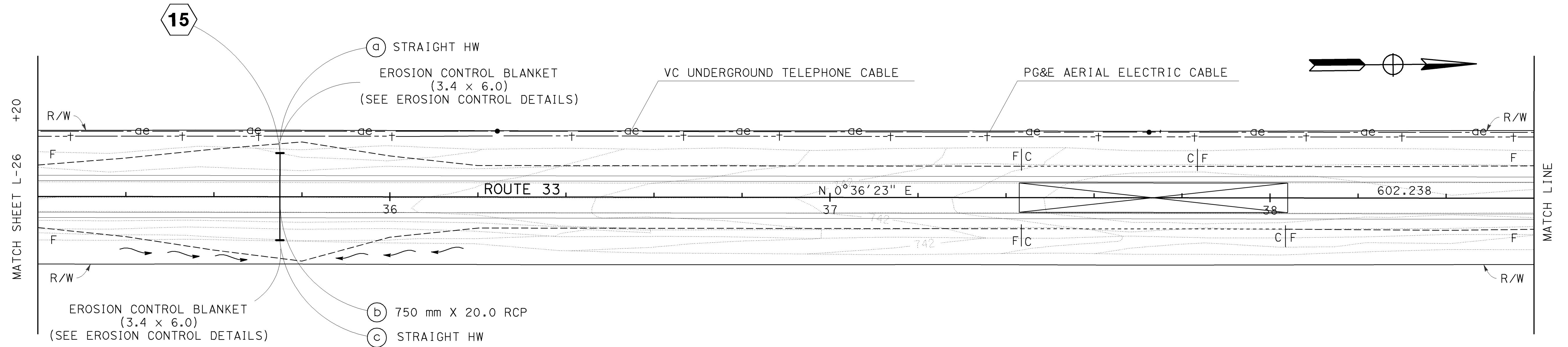


|      |        |       |                                 |          |              |
|------|--------|-------|---------------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 31       | 155          |

01-26-04  
REGISTERED PROFESSIONAL ENG  
WILLARD D.TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

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AS BUILT  
CONTRACT NO. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN

## LAYOUT

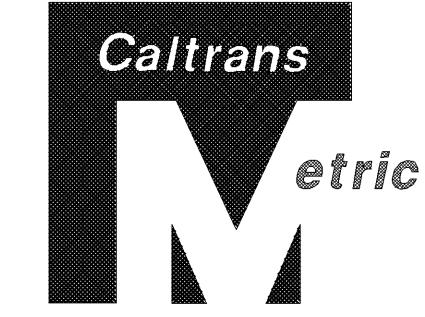
SCALE: 1:500 L-27

**STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION**

**Caltrans PROJECT DEVELOPMENT**

**V. CASTILLO**

- NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



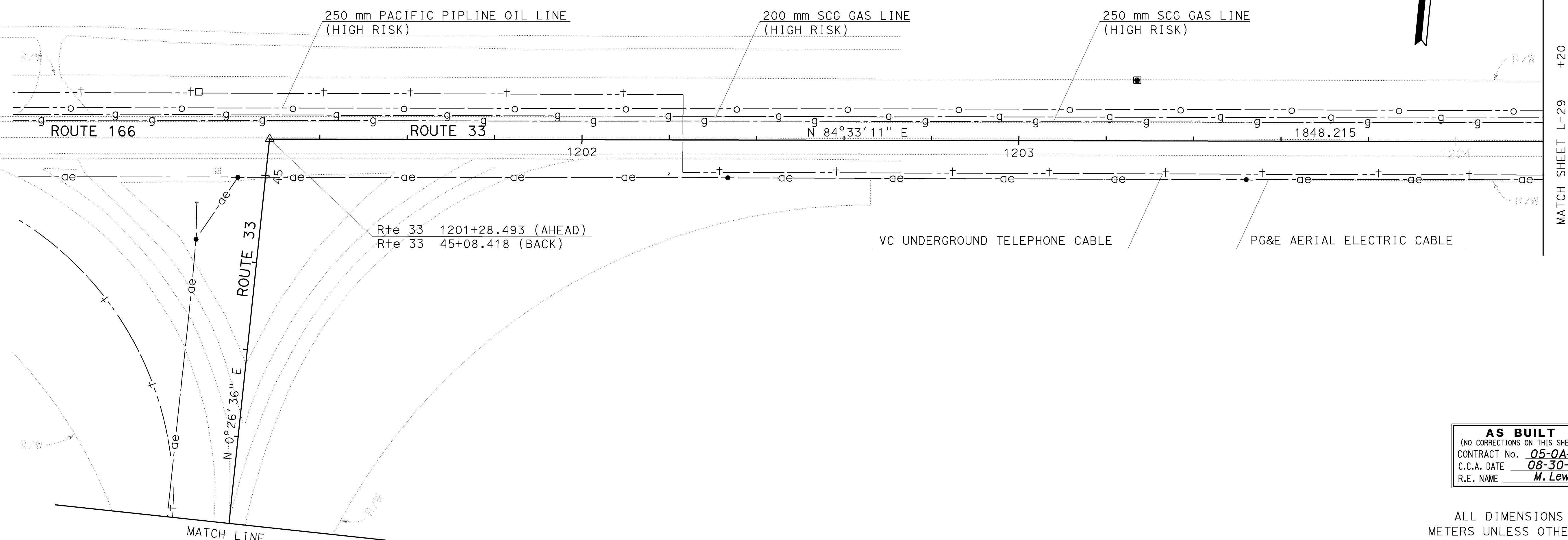
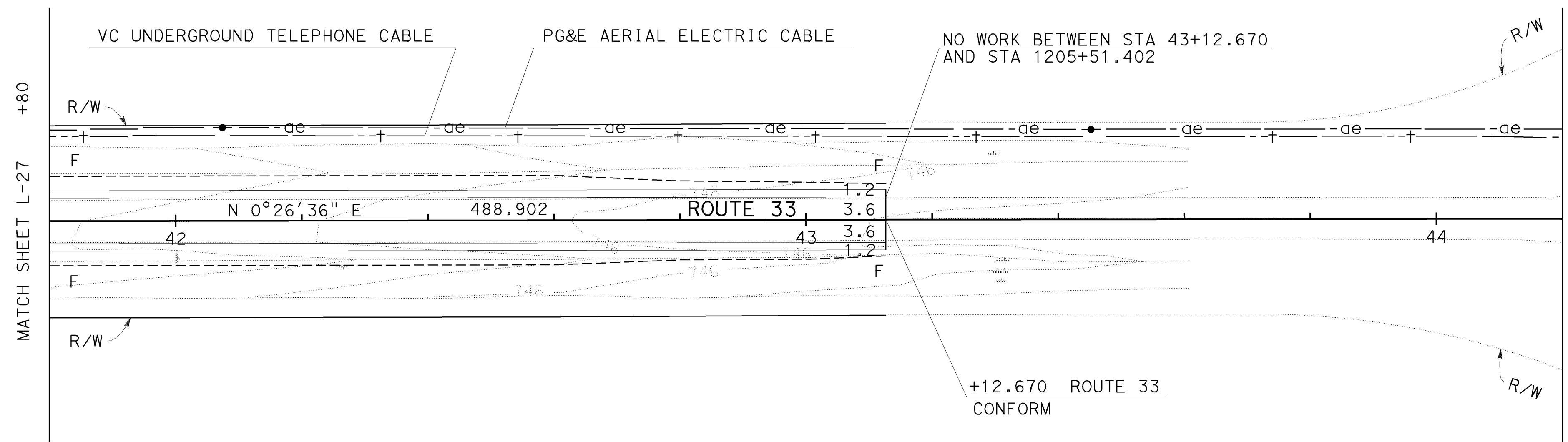
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|------|--------|-------|---------------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 32       | 155          |

01-26-04  
REGISTERED PROFESSIONAL ENG  
WILLARD D.TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

11-29-04  
PLANS APPROVAL DATE

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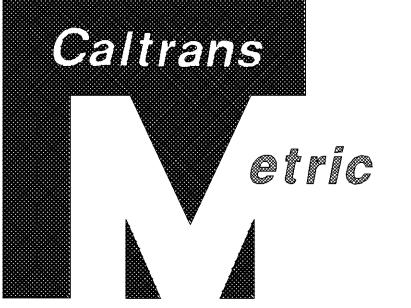
**AS BUILT**  
(NO CORRECTIONS ON THIS SHEET)  
CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN

**LAYOUT**

SCALE: 1:500 **L-28**

NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



|      |        |       |                                 |             |                 |
|------|--------|-------|---------------------------------|-------------|-----------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET<br>No | TOTAL<br>SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 33          | 155             |

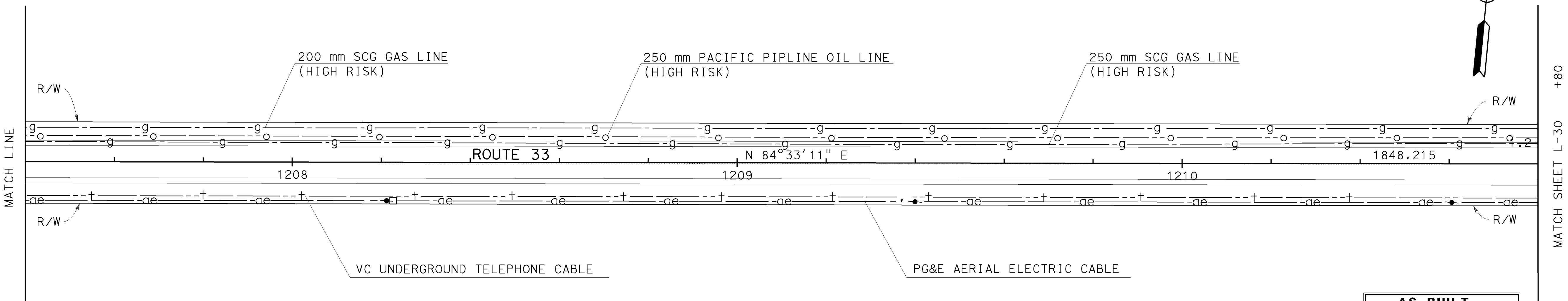
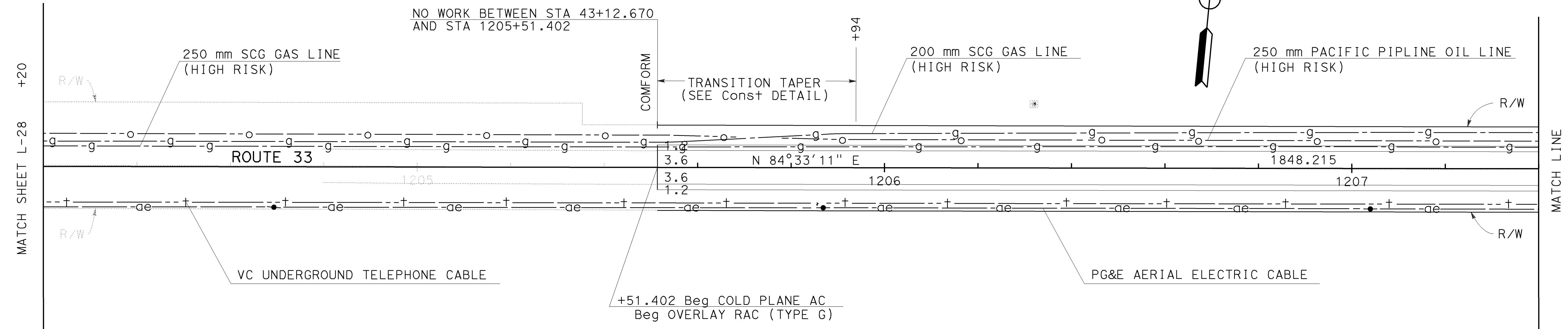
01-26-04  
REGISTERED CIVIL ENGINEER  
WILLARD D. TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

11-29-04  
PLANS APPROVAL DATE  
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DATE REVISED BY  
DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** PROJECT DEVELOPMENT V. CASTILLO



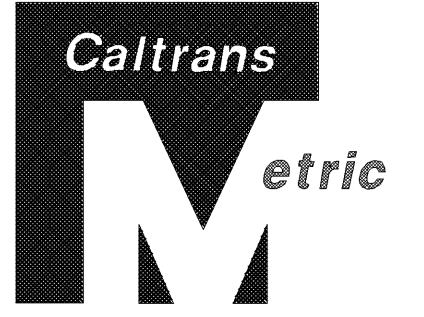
**AS BUILT**  
(NO CORRECTIONS ON THIS SHEET)  
CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

## LAYOUT

SCALE: 1:500 L-29

NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.

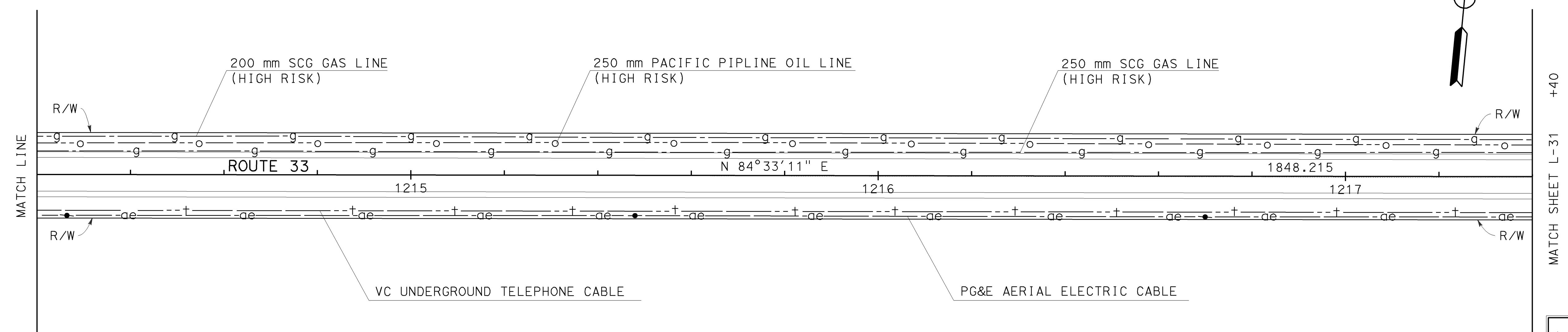
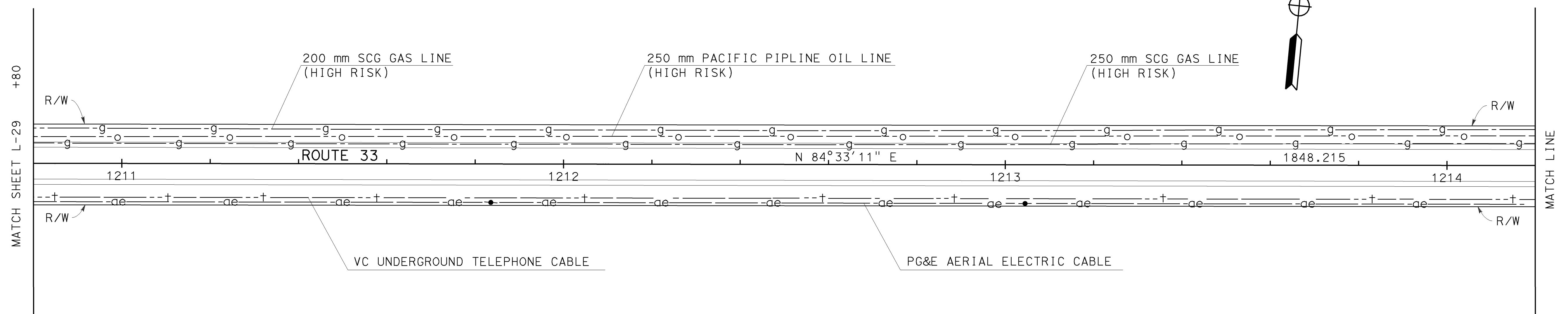


|      |        |       |                                 |                          |
|------|--------|-------|---------------------------------|--------------------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO<br>TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 34 155                   |

01-26-04  
REGISTERED CIVIL ENGINEER  
WILLARD D. TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

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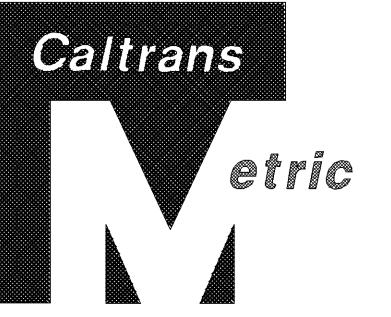
AS BUILT  
(NO CORRECTIONS ON THIS SHEET)  
CONTRACT NO. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN

## LAYOUT

SCALE: 1:500 L-30

NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



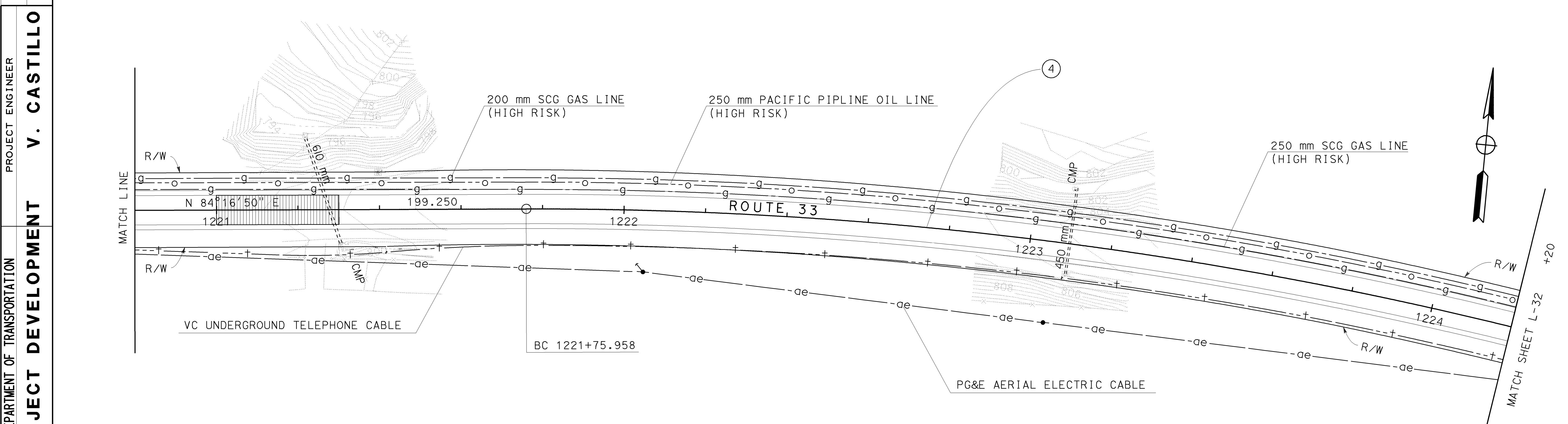
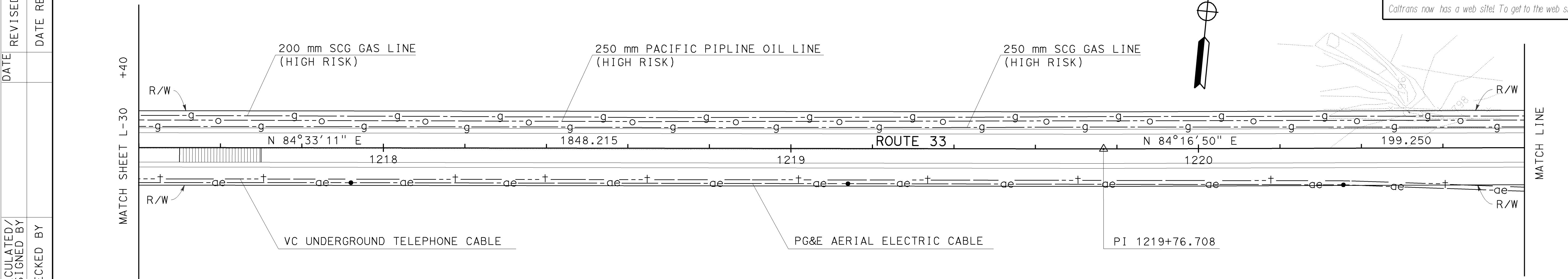
|      |        |       |                                 |          |              |
|------|--------|-------|---------------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 35       | 155          |

01-26-04  
REGISTERED PROFESSIONAL ENG  
WILLARD D.TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

11-29-04  
PLANS APPROVAL DATE

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**CURVE DATA**

| No. | R       | Δ         | T       | L       |
|-----|---------|-----------|---------|---------|
| (4) | 1000.00 | 16°31'00" | 145.290 | 288.560 |

**AS BUILT**  
(NO CORRECTIONS ON THIS SHEET)  
CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

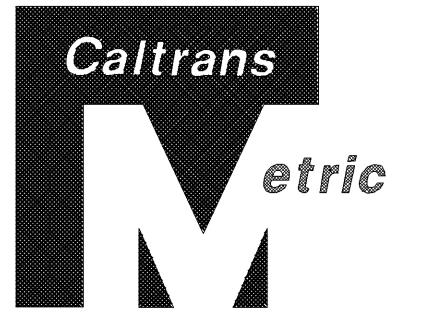
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

**LAYOUT**

SCALE: 1:500 **L-31**

NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



| DIST | COUNTY  | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET<br>No | TOTAL<br>SHEETS |
|------|---------|-------|---------------------------------|-------------|-----------------|
| 05   | SB, SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 36          | 155             |

*Willard*

01-26-04

REGISTERED CIVIL ENGINEER

11-29-04

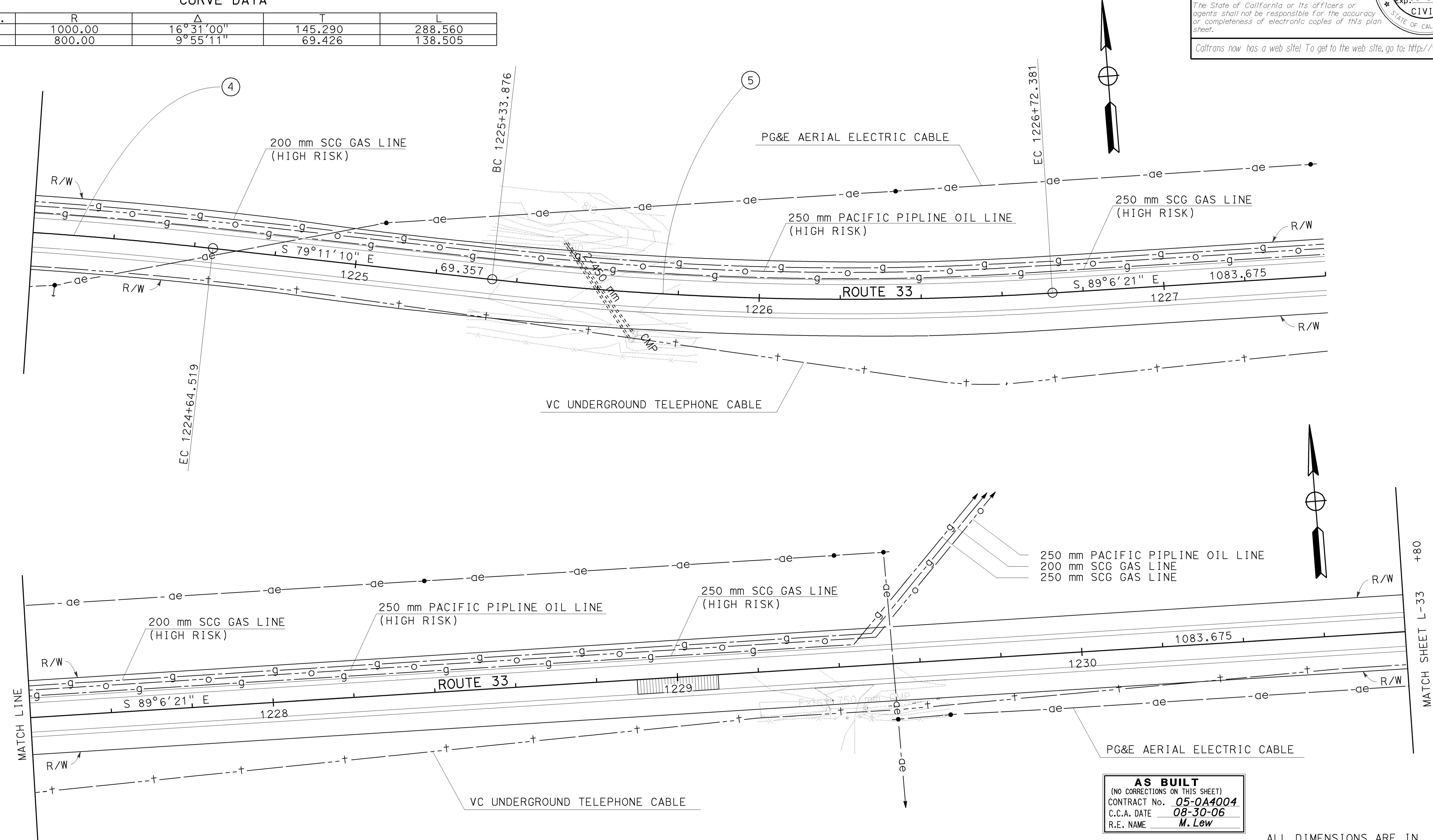
PLANS APPROVAL DATE

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## CURVE DATA

| No. | R       | $\Delta$              | T       | L       |
|-----|---------|-----------------------|---------|---------|
| ④   | 1000.00 | $16^{\circ} 31' 00''$ | 145.290 | 288.560 |
| ⑤   | 800.00  | $9^{\circ} 55' 11''$  | 69.426  | 138.505 |



ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN

# LAYOUT

SCALE: 1:500 L-32

NOTES: 1. FOR COMPLETE RIGHT OF WAY DATA SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.

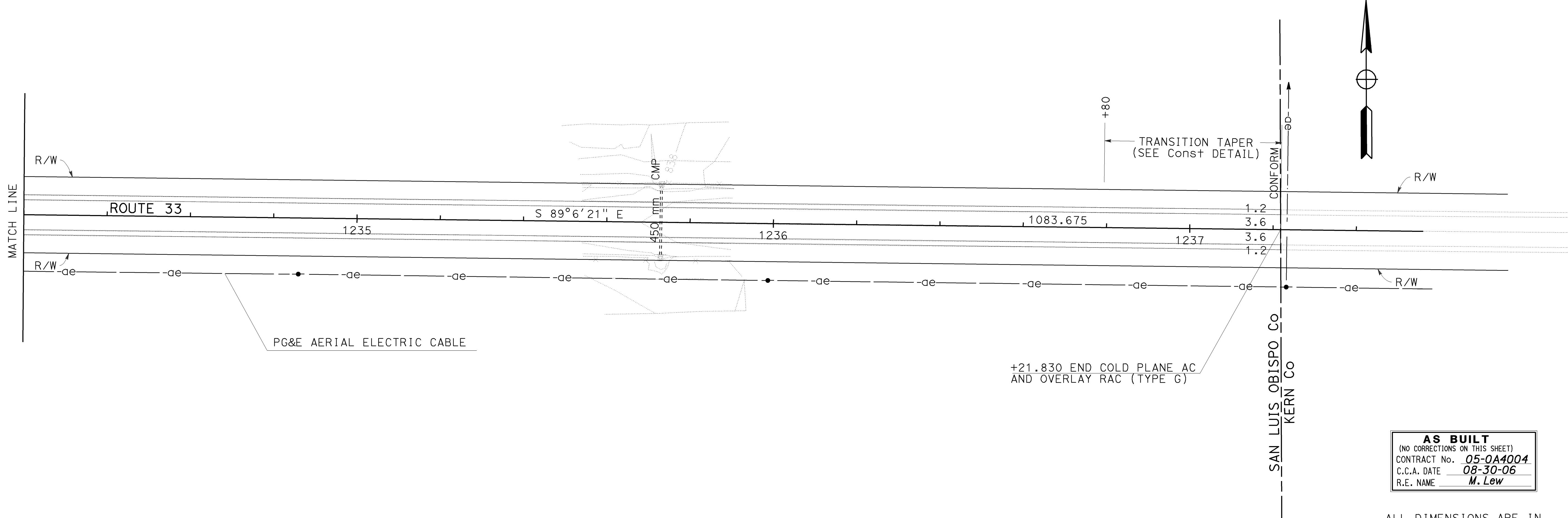
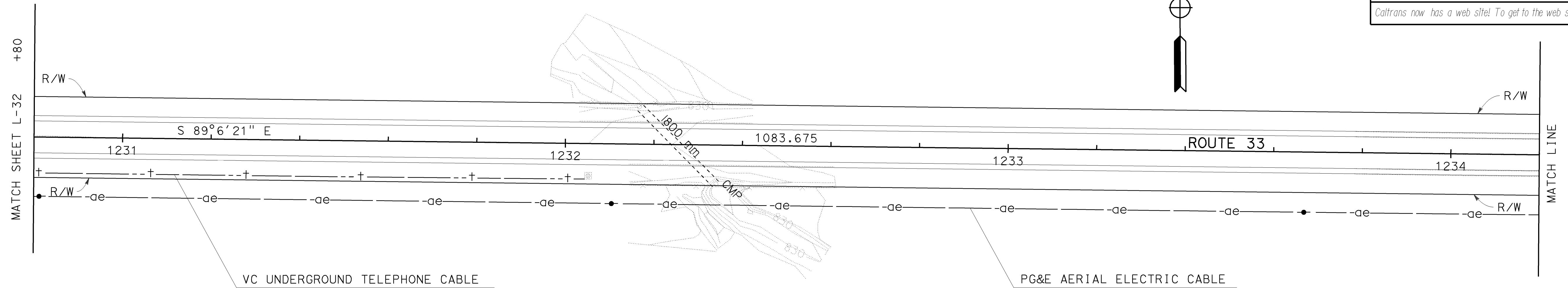


|      |        |       |                                 |             |                 |
|------|--------|-------|---------------------------------|-------------|-----------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET<br>No | TOTAL<br>SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 37          | 155             |

01-26-04  
REGISTERED CIVIL ENGINEER  
WILLARD D. TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

11-29-04  
PLANS APPROVAL DATE  
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**AS BUILT**  
(NO CORRECTIONS ON THIS SHEET)  
CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

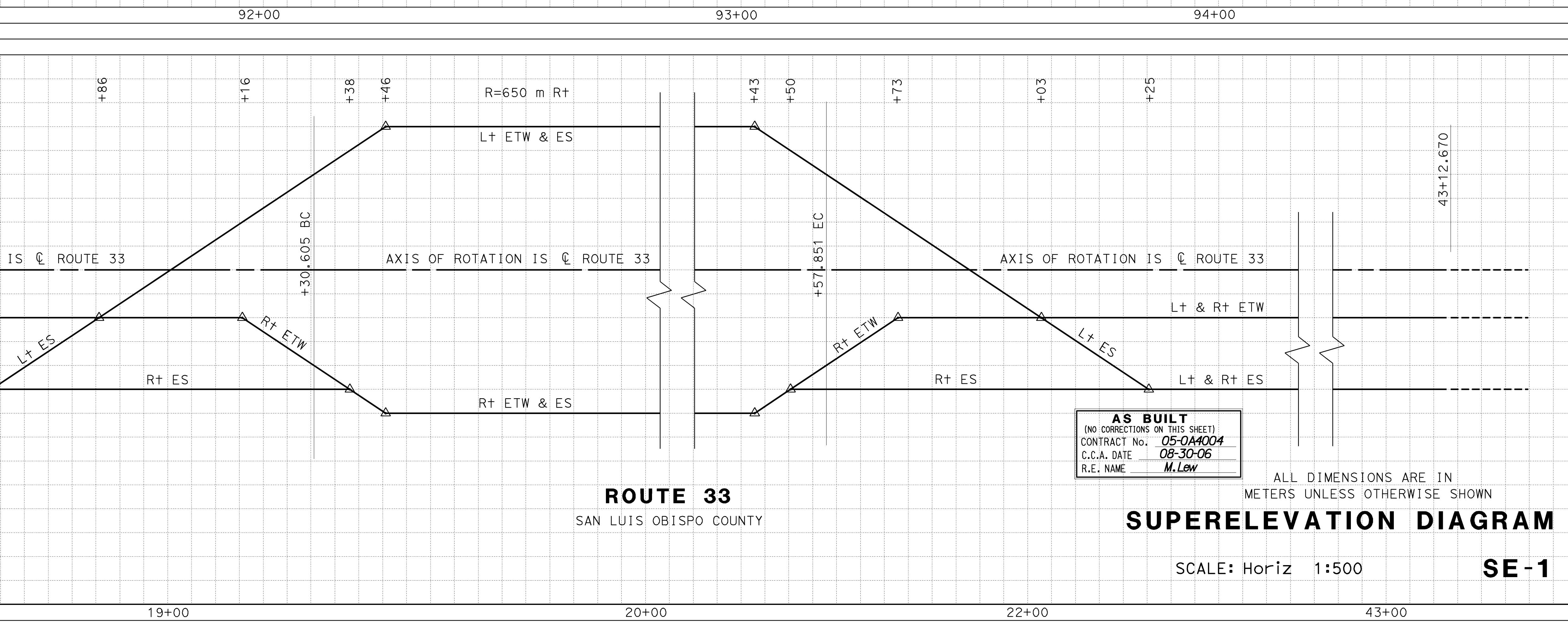
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

## LAYOUT

SCALE: 1:500 L-33

NOTE: EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.

0+10 CONFORM VENTURA CO/SANTA BARBARA CO LINE



| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET<br>NO | TOTAL<br>SHEETS |
|------|--------|-------|---------------------------------|-------------|-----------------|
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 63          | 155             |

01-26-04  
REGISTERED CIVIL ENGINEER

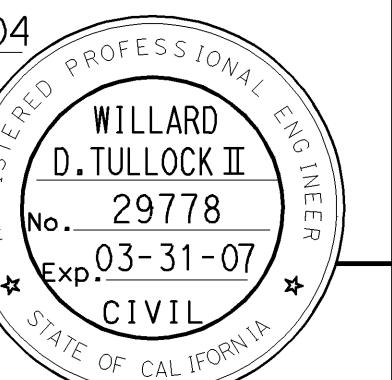
11-29-04

PLANS APPROVAL DATE

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SLO Rte 33 1+30.861 (Ahd)  
SB Rte 33 131+93.018 (Bk)



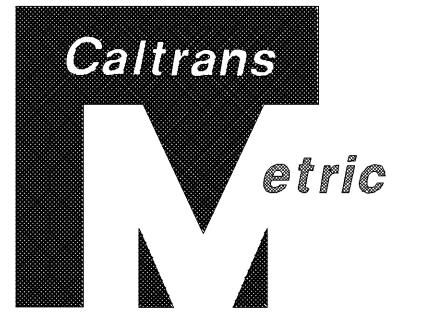
NOTE: EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.

LEGEND:

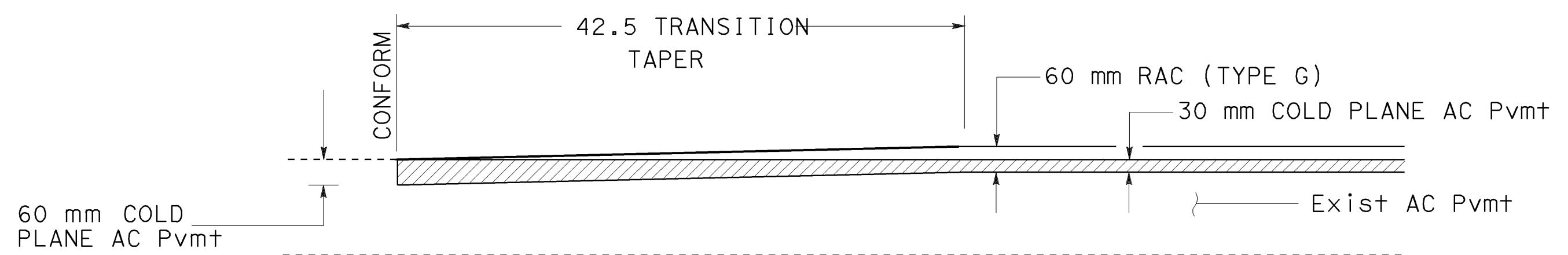


ABBREVIATIONS:

RAC = RUBBERIZED ASPHALT CONCRETE  
CFIPR = COLDFOAM IN-PLACE RECYCLING

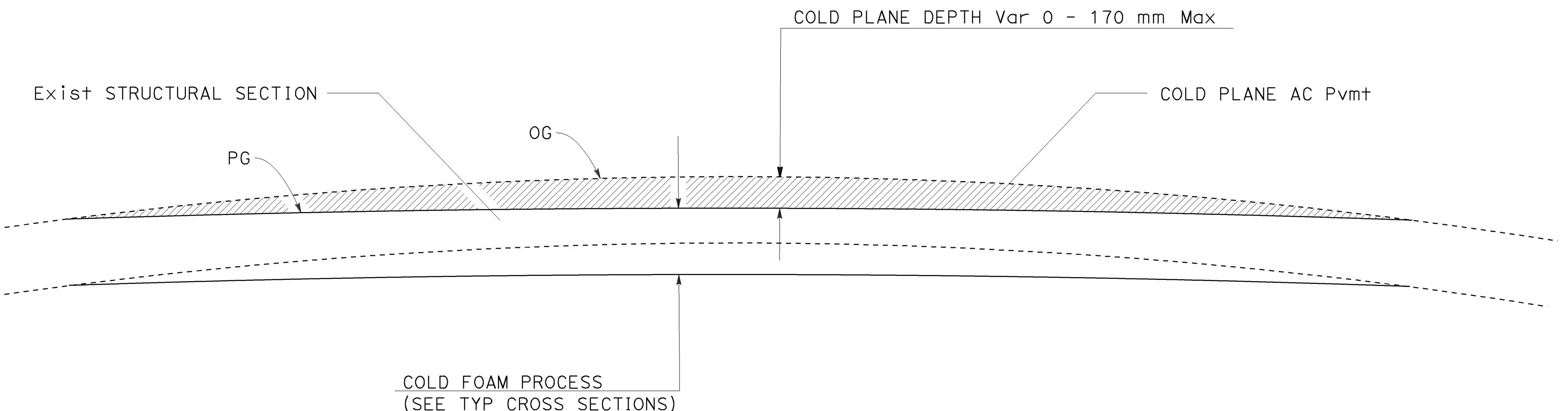


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|--|--------|-------|---------------------------------|-------------|-----------------|
| DIST   | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET<br>NO | TOTAL<br>SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 64          | 155             |
| 01-26-04   |        |       |                                 |             |                 |
| REGISTERED CIVIL ENGINEER  |        |       |                                 |             |                 |
| 11-29-04   |        |       |                                 |             |                 |
| PLANS APPROVAL DATE  |        |       |                                 |             |                 |
| The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet. |        |       |                                 |             |                 |
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**TYPICAL LONGITUDINAL AC OVERLAY TRANSITION**

SLO STA 1205+51  
SLO STA 1237+20



**TYPICAL LONGITUDINAL AC COLD PLANE**

(SEE SUMMARY OF QUANTITIES SHEET FOR LOCATIONS AND DEPTH)

|                                |           |
|--------------------------------|-----------|
| <b>AS BUILT</b>                |           |
| (NO CORRECTIONS ON THIS SHEET) |           |
| CONTRACT NO.                   | 05-0A4004 |
| C.C.A. DATE                    | 08-30-06  |
| R.E. NAME                      | M.Lew     |

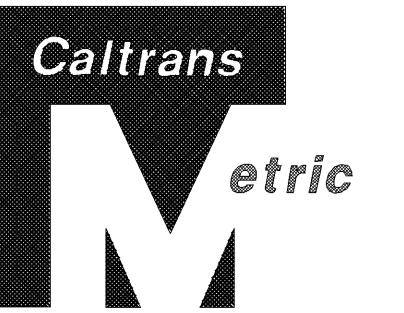
ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN

**CONSTRUCTION DETAILS**

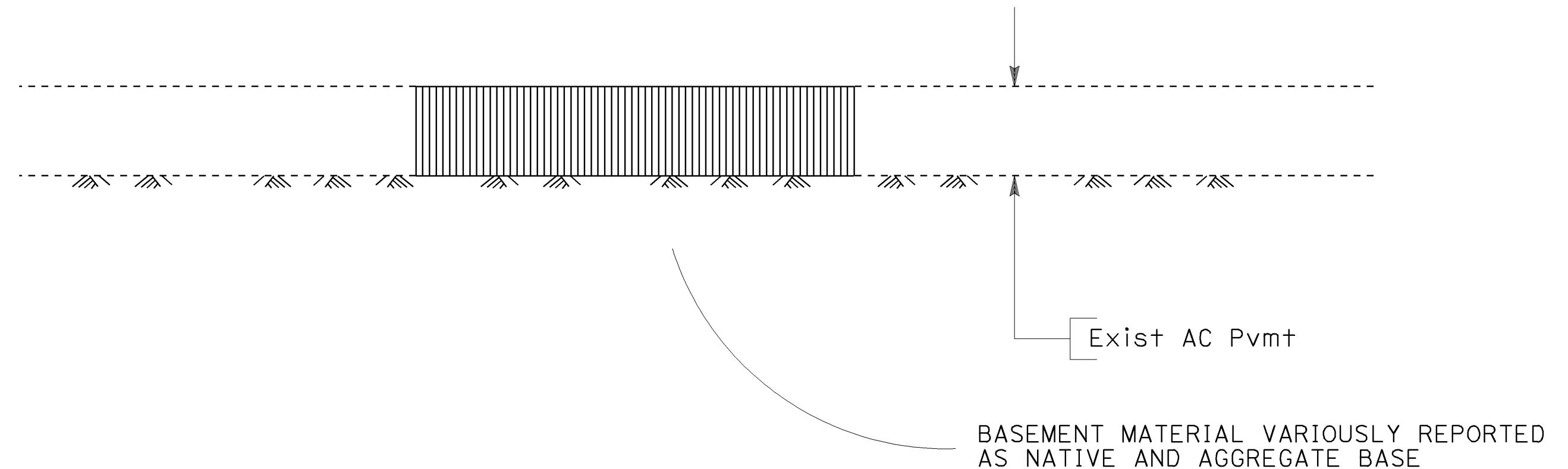
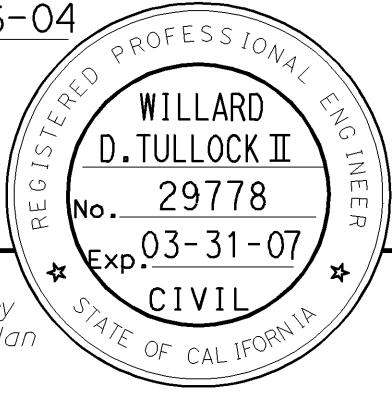
NO SCALE

**C-1**

NOTE: EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.

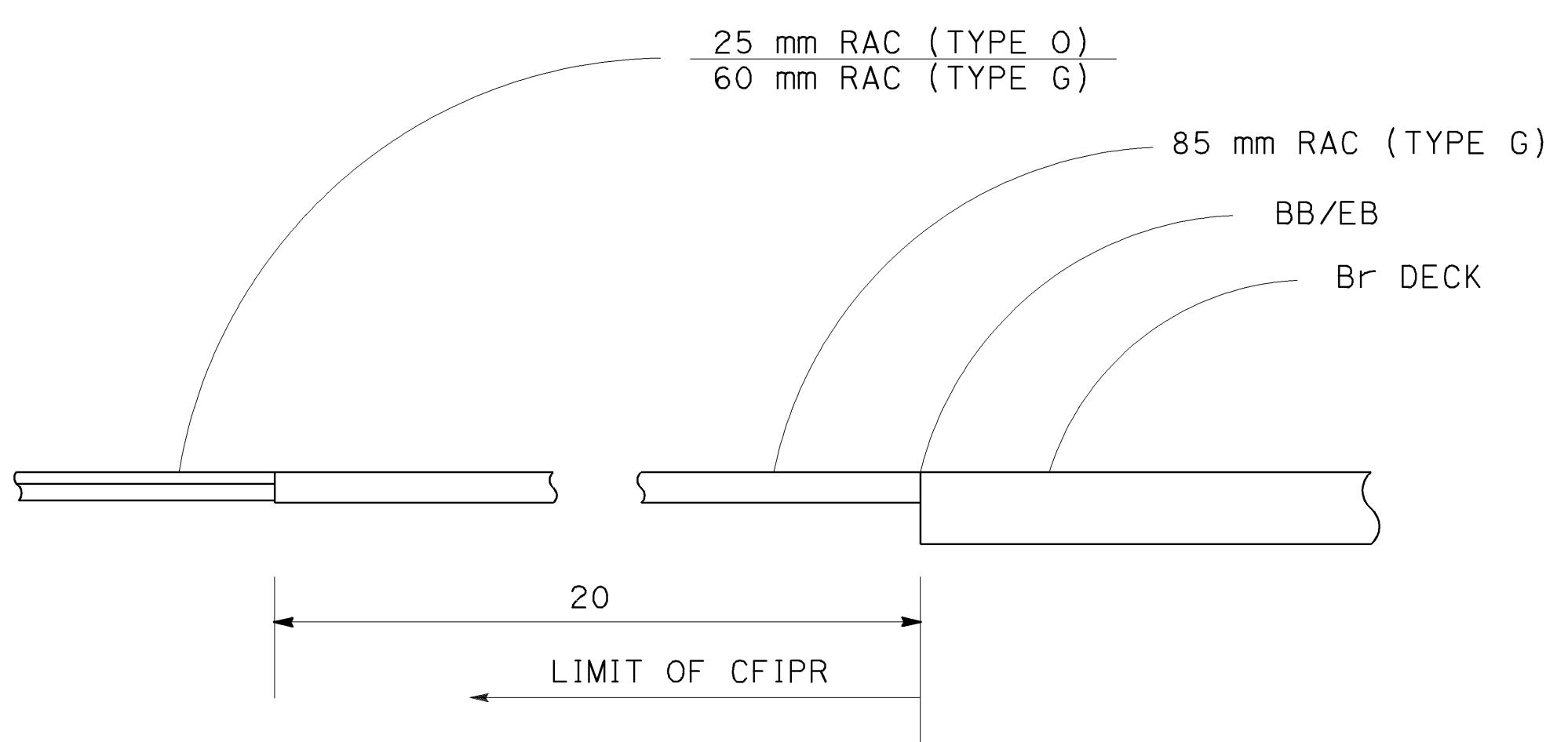


| DIST  | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET<br>No | TOTAL<br>SHEETS |
|---|--------|-------|---------------------------------|-------------|-----------------|
| 05  | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 65          | 155             |
| <p>Willard 01-26-04<br/>REGISTERED CIVIL ENGINEER</p>   |        |       |                                 |             |                 |
| <p>11-29-04<br/>PLANS APPROVAL DATE</p>   |        |       |                                 |             |                 |
| <p>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</p> |        |       |                                 |             |                 |
| <p>Caltrans now has a web site! To get to the web site, go to: <a href="http://www.dot.ca.gov">http://www.dot.ca.gov</a></p>                                |        |       |                                 |             |                 |



### TYPICAL LONGITUDINAL ROADWAY SECTION IN AC REMOVAL AREAS

SLO STA 1217+50 TO 1217+70  
SLO STA 1221+00 TO 1221+30  
SLO STA 1228+90 TO 1229+10



### TYPICAL LONGITUDINAL ROADWAY SECTION AT BRIDGE APPROACH/DEPARTURE

SLO STA 29+84  
SLO STA 30+21  
SLO STA 113+61  
SLO STA 113+73

|                                |           |
|--------------------------------|-----------|
| <b>AS BUILT</b>                |           |
| (NO CORRECTIONS ON THIS SHEET) |           |
| CONTRACT NO.                   | 05-0A4004 |
| C.C.A. DATE                    | 08-30-06  |
| R.E. NAME                      | M. Low    |

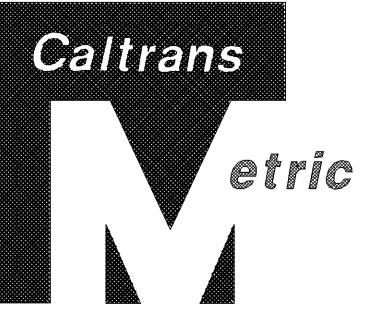
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

### CONSTRUCTION DETAILS

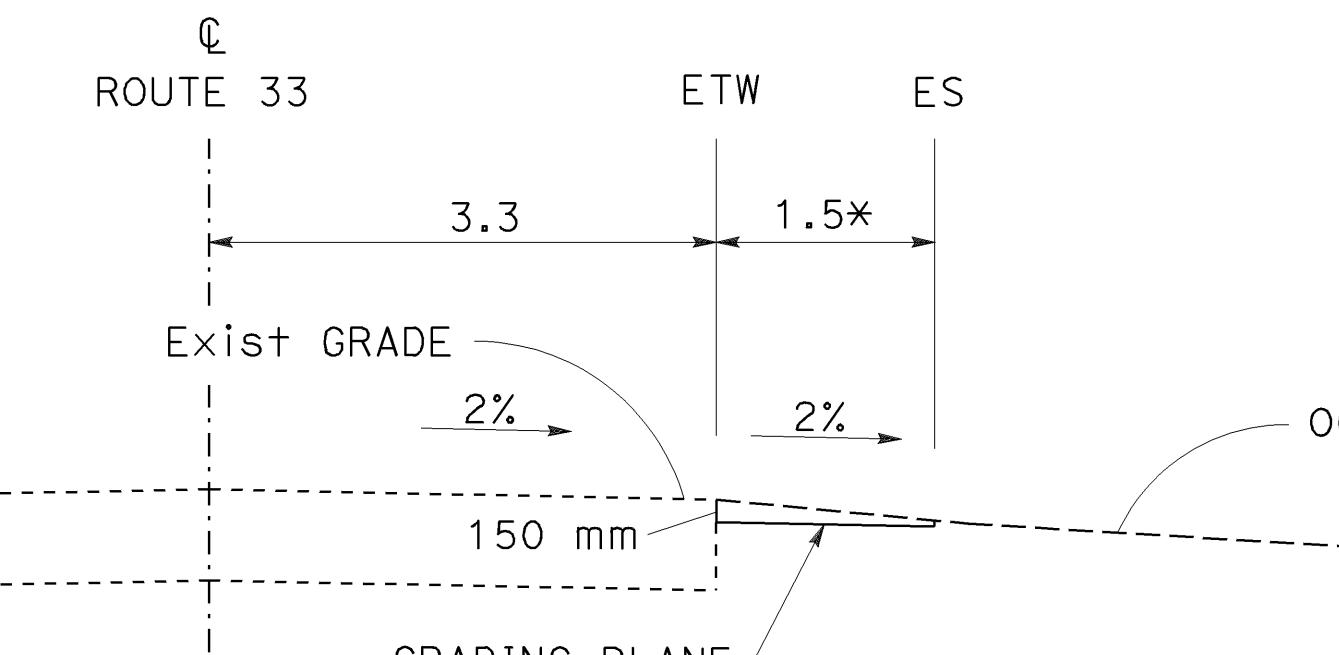
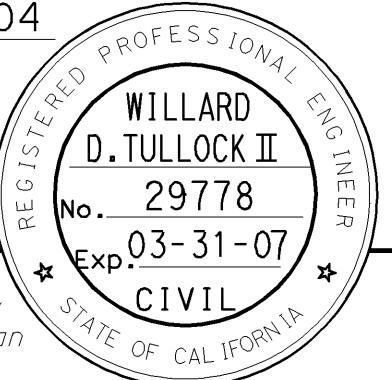
NO SCALE

C-2

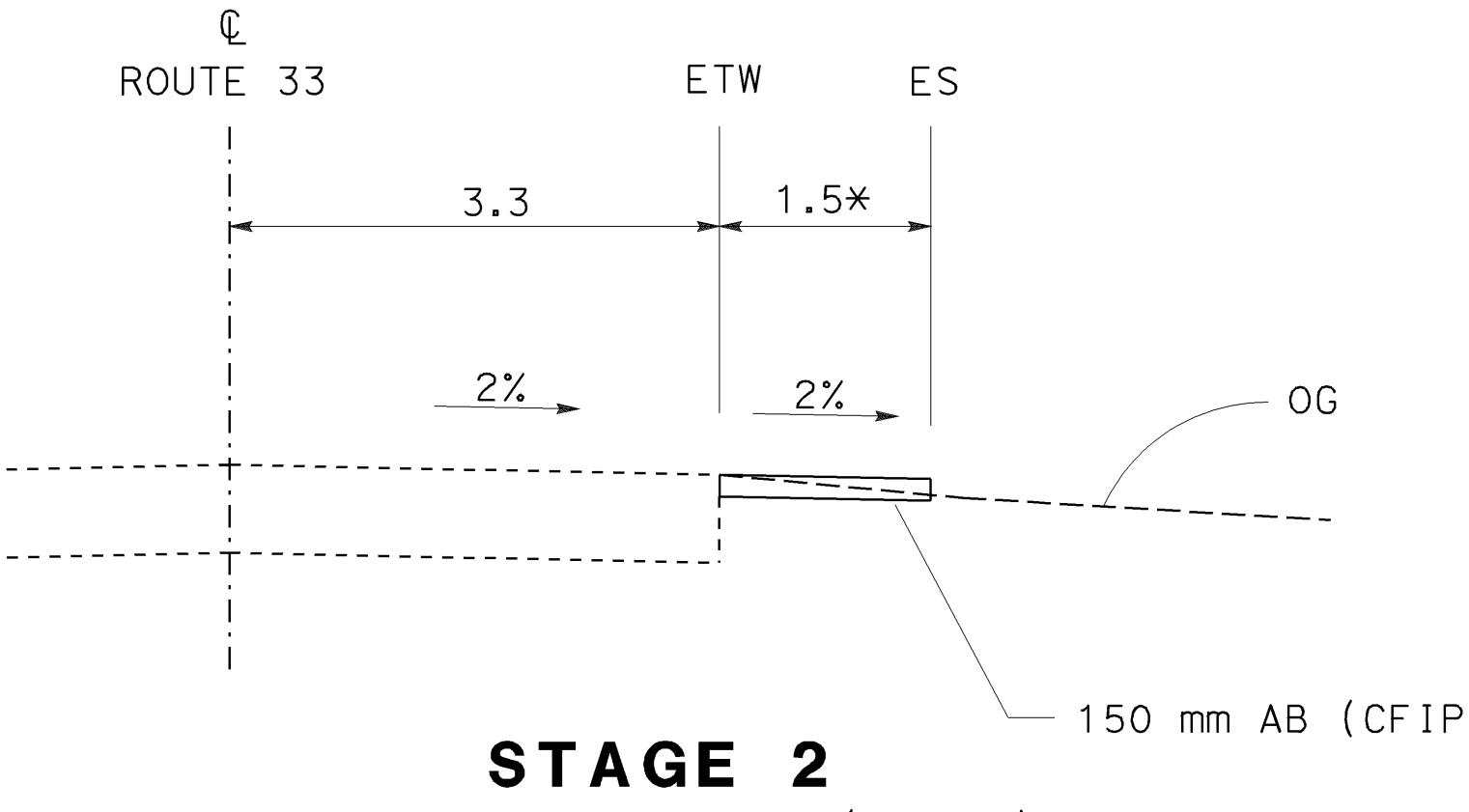
NOTE: EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



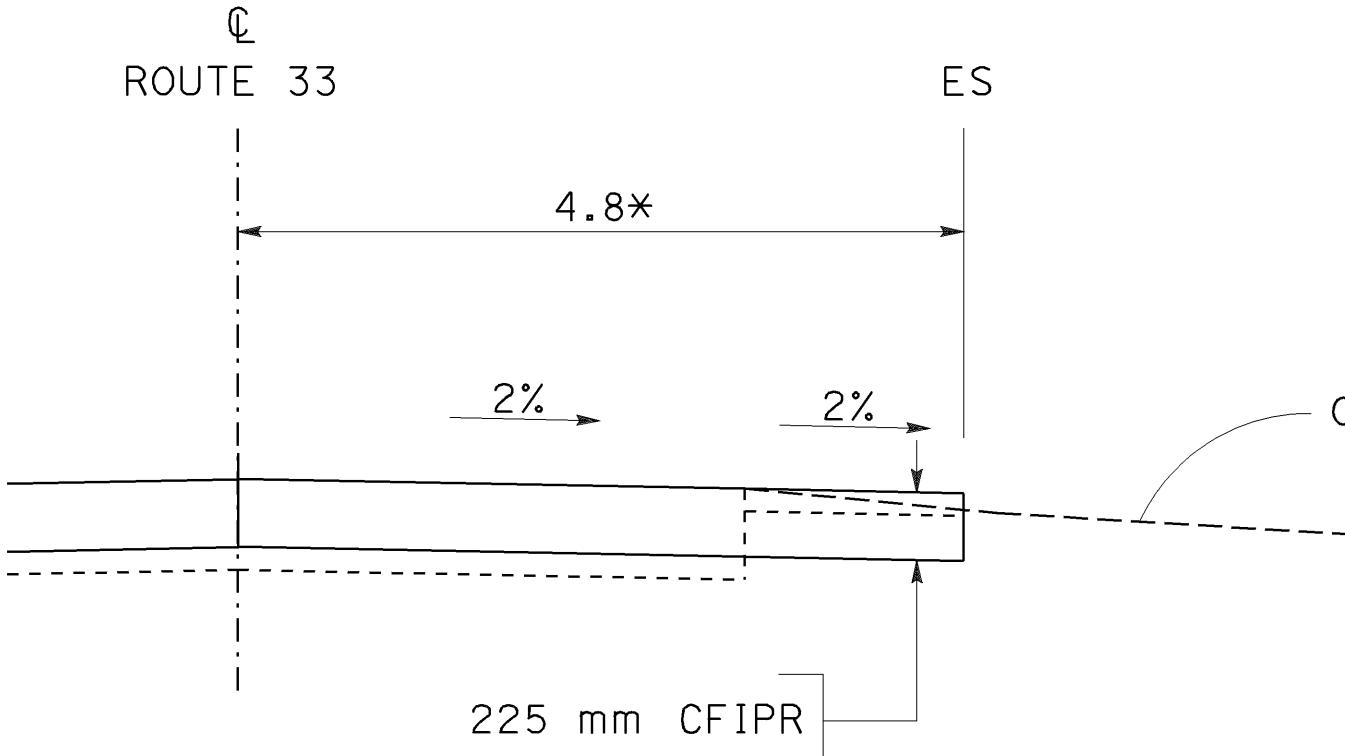
|  |        |       |                                 |                     |                           |
|--|--------|-------|---------------------------------|---------------------|---------------------------|
| DIST   | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET<br>No         | TOTAL<br>SHEETS           |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 66                  | 155                       |
|  |        |       | <i>Willard</i>                  | 10-18-04            | REGISTERED CIVIL ENGINEER |
|  |        |       | 11-29-04                        | PLANS APPROVAL DATE |                           |
| The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet. |        |       |                                 |                     |                           |
| Caltrans now has a web site! To get to the web site, go to: <a href="http://www.dot.ca.gov">http://www.dot.ca.gov</a>                                |        |       |                                 |                     |                           |



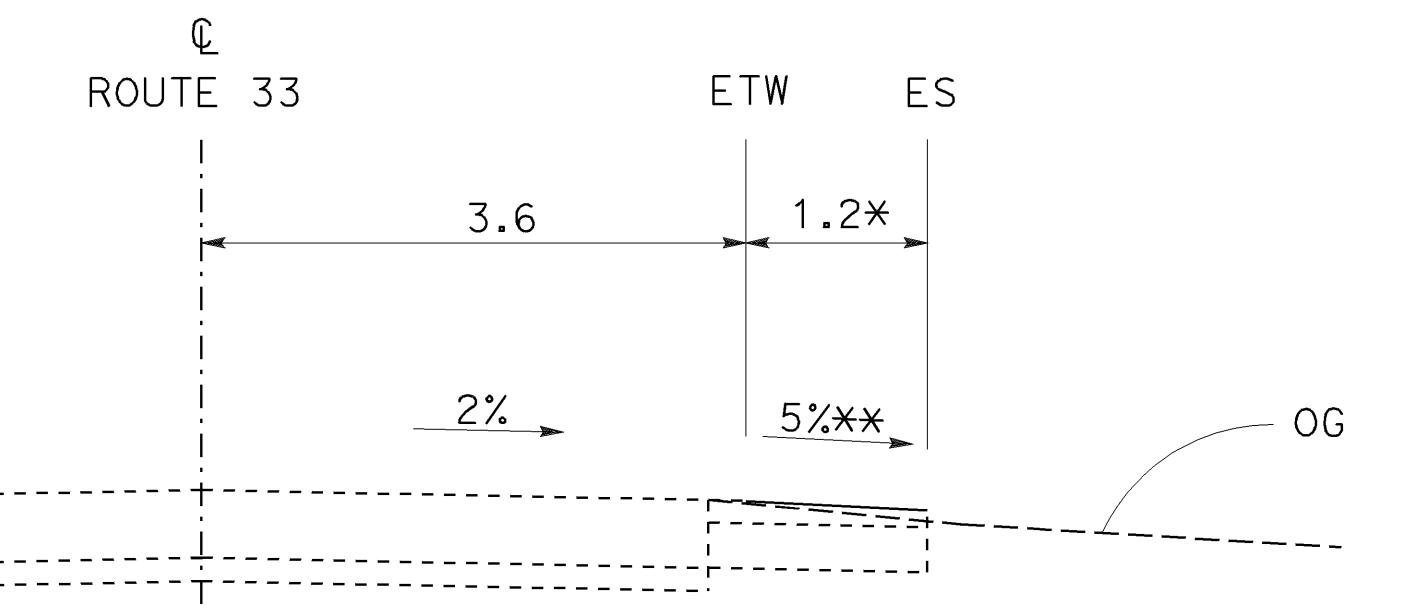
**STAGE 1**  
ESTABLISH GRADING PLANE 150 mm  
BELOW EXISTING GRADE AT 2 %



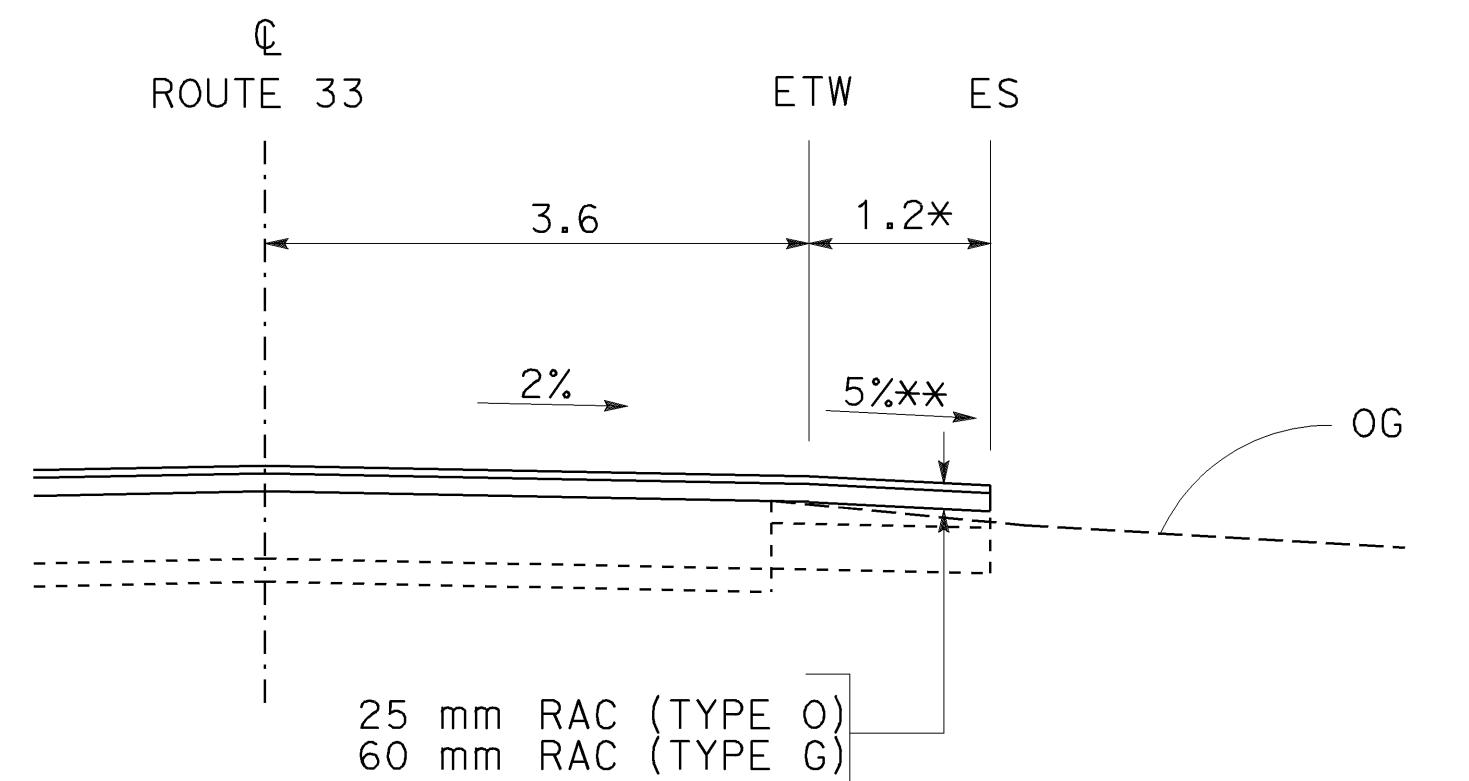
**STAGE 2**  
PLACE 150 mm AB (CFIPR)



**STAGE 3**  
COLD FOAM PROCESS



**STAGE 4\*\*\***  
GRADE SHOULDER CROSS SLOPE TO 5%



**STAGE 5**  
RAC OVERLAY

### SHOULDER AND TEMPORARY TRAVEL WAY CONSTRUCTION

SB STA 0+10 TO STA 131+93  
SLO STA 1+31 TO STA 43+12

\* WIDTH VARIES IN TEMPORARY TRAVEL WAY SECTION  
\*\* SLOPE 2% IN TEMPORARY TRAVEL WAY SECTION  
\*\*\* FOR SHOULDER CONSTRUCTION ONLY

**AS BUILT**  
(NO CORRECTIONS ON THIS SHEET)  
CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Low

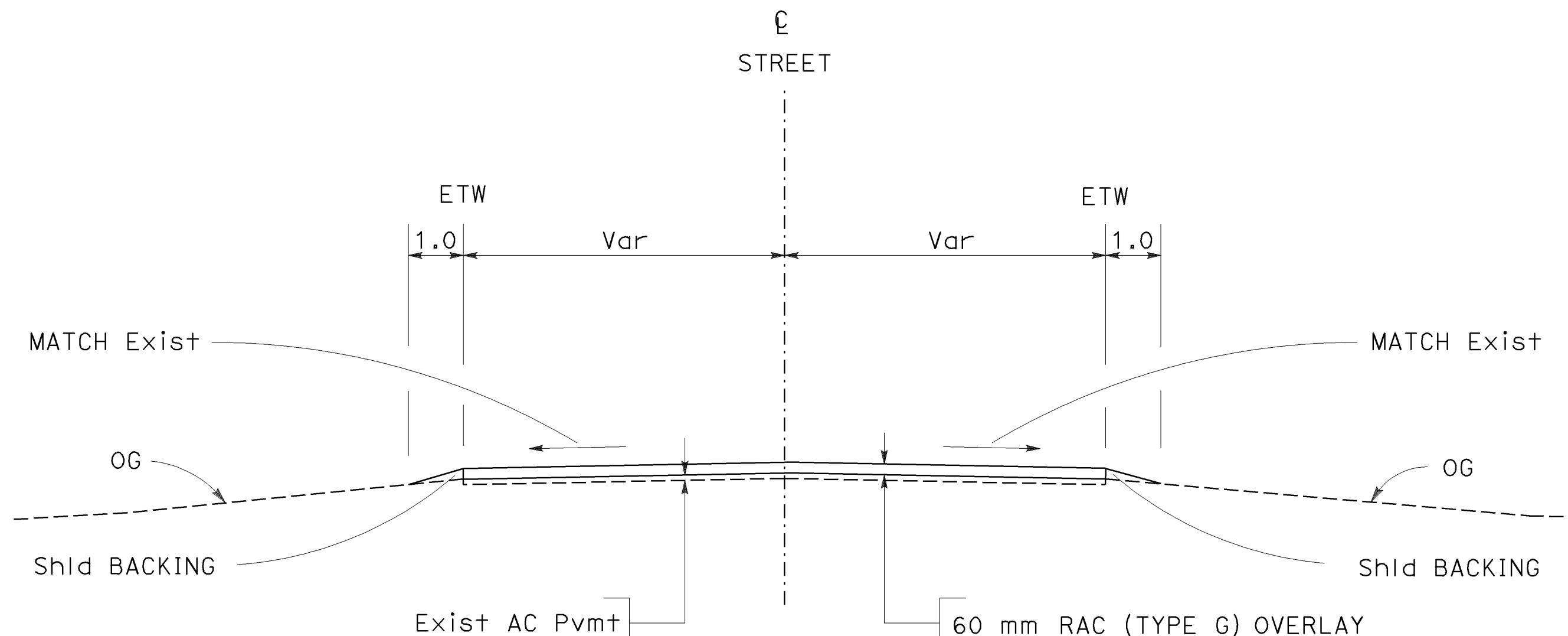
ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN

### CONSTRUCTION DETAILS

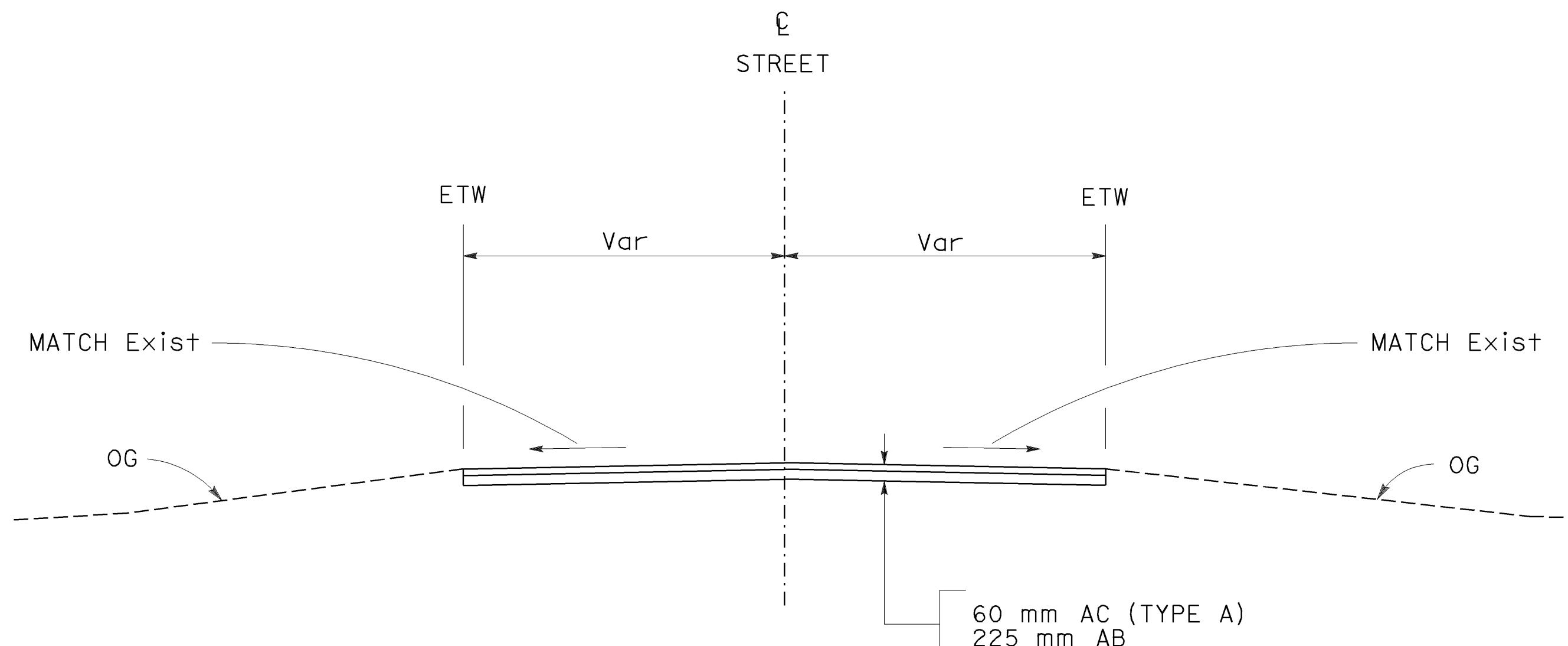
NO SCALE

C-3

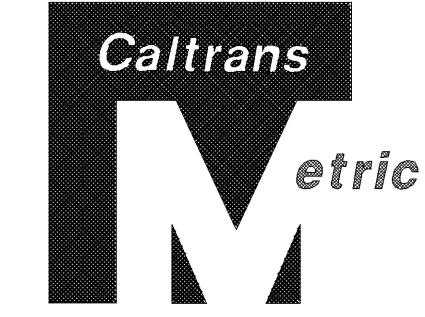
NOTE: EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.

**PAVED STREET INTERSECTION**

SB STA 51+22 (Rt AND Lt) (LA PANZA Ave)  
 SB STA 119+00 (BALLINGER CANYON Rd)  
 SB STA 131+90 (ROOTHILL Rd)

**UNPAVED STREET INTERSECTION**

SB STA 36+00 (QUATAL CANYON Rd)



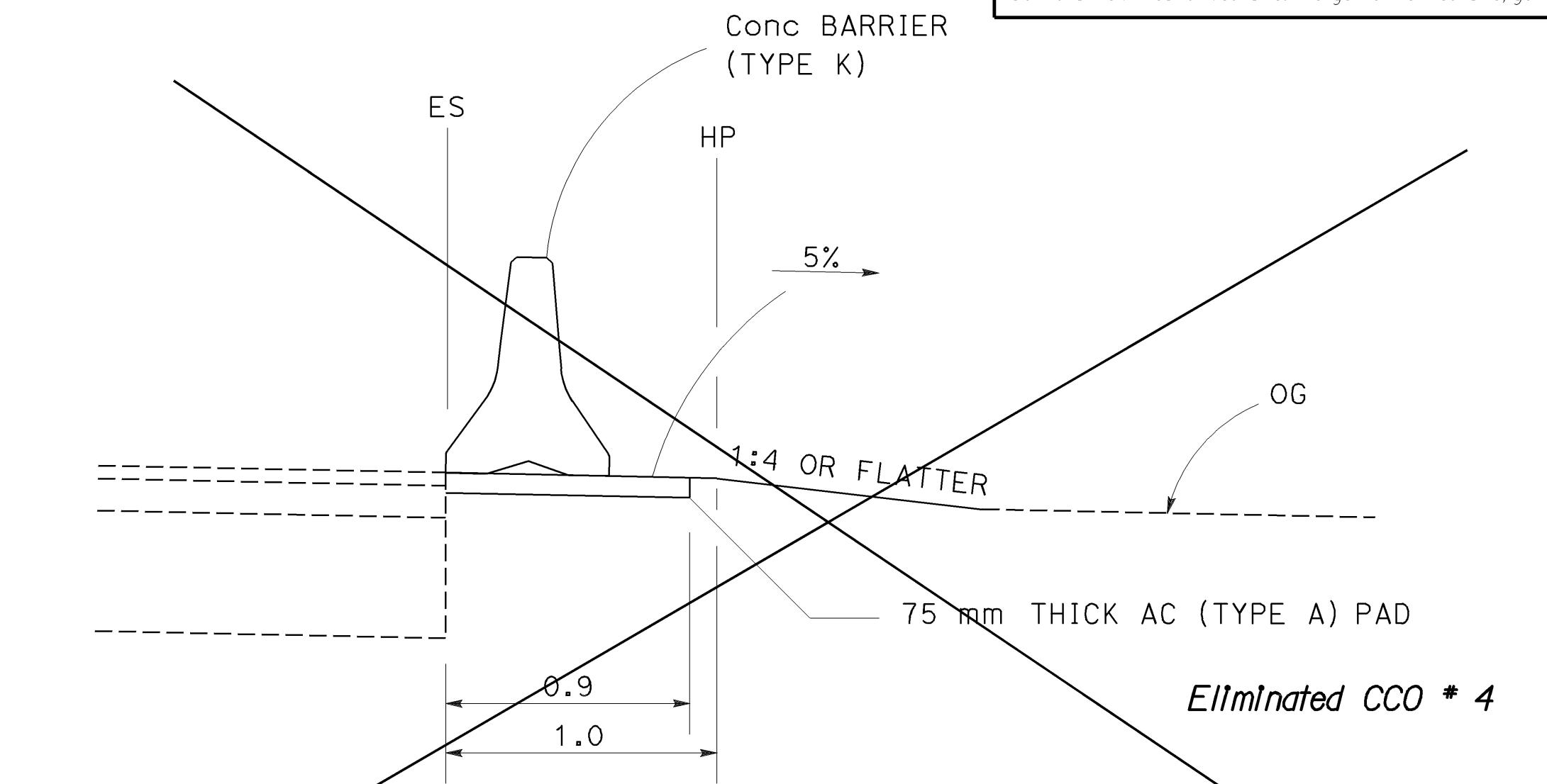
|      |         |       |                                 |          |              |
|------|---------|-------|---------------------------------|----------|--------------|
| DIST | COUNTY  | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
| 05   | SB, SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 67       | 155          |

Willard  
01-26-04  
REGISTERED CIVIL ENGINEER

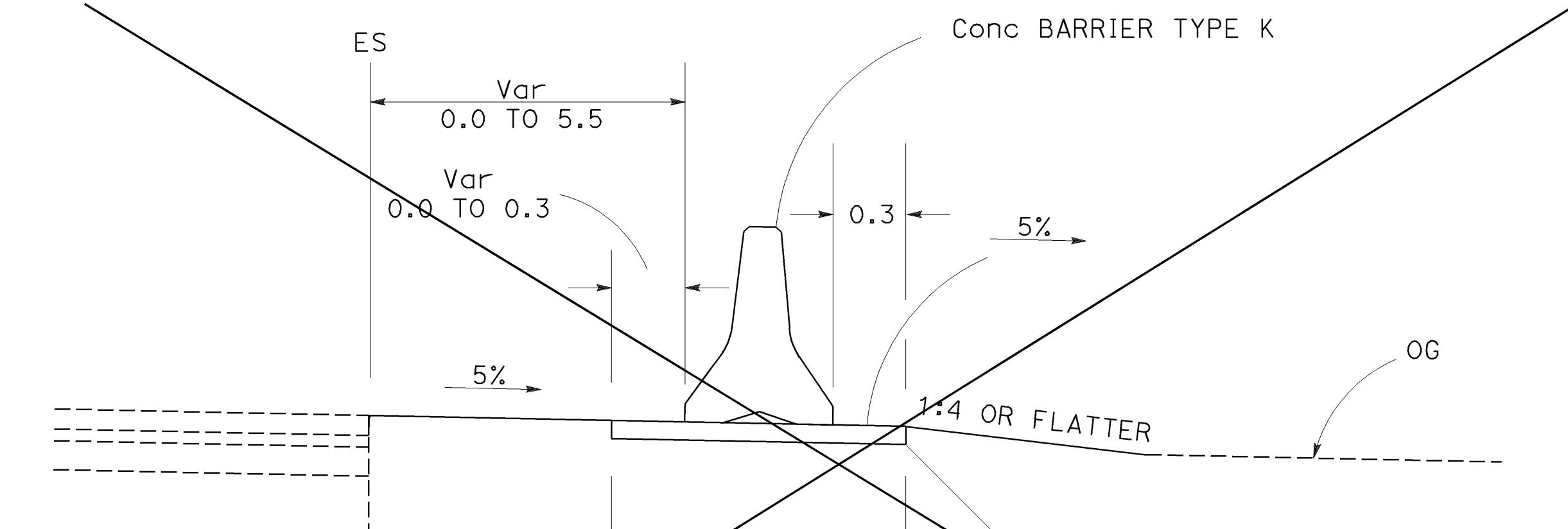
11-29-04  
PLANS APPROVAL DATE

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**BARRIER ADJACENT TO ES**

STA 12+62 TO STA 12+68

**BARRIER OFF ES**SB STA 12+07 TO 12+62  
STA 12+68 TO 13+23**CONCRETE BARRIER AND AC PAD (RIGHT SIDE)**

SB STA 12+07 TO STA 13+23

|              |           |
|--------------|-----------|
| AS BUILT     |           |
| CONTRACT No. | 05-0A4004 |
| C.C.A. DATE  | 08-30-06  |
| R.E. NAME    | M.Lew     |

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN**CONSTRUCTION DETAILS**

NO SCALE

C-4



## METRIC MEASUREMENTS NOTE:

ALL HARDWARE, WOOD PRODUCTS AND OTHER FABRICATED MATERIAL USED  
IN THIS SYSTEM WILL BE CONVERTED TO NEAREST AVAILABLE ENGLISH MEASUREMENTS.

**OFFSET NOTE:**

THE POST OFFSET DIMENSION IS GIVEN TO THE CENTER OF THE TRAFFIC FACE  
OF POST No. 1 (HBA)

**FIRST LINE POST MUST BE A  
"BREAKAWAY" WOOD POST  
SAME AS POSTS 3-6  
(POST #7 NOT INCLUDED WITH SRT)**

FIRST LINE POST MUST BE A  
"BREAKAWAY" WOOD POST  
SAME AS POSTS 3-6  
(POST #7 NOT INCLUDED WITH SRT)

POSITIONED IMMEDIATELY DOWNSTREAM OF SLOTS.

MEASURED AT  
BACK OF RAIL

STANDARD GUARDRAIL SRT-350  
(SEE NOTE ABOVE AT POST #7)

1905 1905 1905

PC 3360G & PC 3340G

705

PC 9G

PC 39G

PC 9960G

7 6 5

PC6321 W/ PC4258, PC4254 & PC6405  
INSTALL WITH HEAD ON STRUT SIDE  
W/WASHER & LOCKWASHER UNDER HEX NUT



PC3718 W/ PC3701, PC4699 & PC3704  
INSTALL WITH HEAD ON STRUT SIDE  
W/WASHER & LOCKWASHER UNDER HEX NUT

PC 9G OR 39G

PC 4075B

PC 3580G W/PC3340G  
AND PC3300G

PC 4063B

PC 4063B

PC 4075B

**SECTION "C-C"**

---

## SECTION "B-B"

**VIEW "H-H"** ON CTR. SIDE  
(@ POST #2) W/WASHER & LOCKWASHER  
UNDER HEX NUT

NOTE: EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.

LENGTH OF NEED

The diagram illustrates a control system for a conveyor belt. A horizontal conveyor belt is shown with a central support structure. Four callouts point to specific components: 'PC 3000G' points to the top center; '2 ~ PC 33879G' points to the left side; 'PC 700A' points to the bottom left; and 'PC 907G' points to the right side.

PC 3G ATTACHED TO POST 2

A

05 1905

60G AND 40G

PC 3360G & PC 3340G

The diagram shows a mechanical assembly with a horizontal base plate. A vertical post labeled 'Post 2' is attached to the base. A circular callout 'A' points to the top of this post. The text 'PC 3G ATTACHED TO POST 2' is written above the post. To the left, the text '05 1905' is positioned above a horizontal line. Below this line, the text '60G AND 40G' is followed by 'PC 3360G & PC 3340G'. At the bottom, there is a detailed view of a mechanical interface, showing two sets of pins and a central slot.

PC4261G W/ PC6405G & PC4254G

TRAFFIC SIDE

PC 33881G  
ATTACHES TO WEB OF POST #1

PC 33880G  
INSTALL PLATE SO SLOT  
OPENING IS AT TOP

PC 3000G W/ PC 3910G EACH  
END & PC 3900G OPP END

PC9961G

PC6321 W/ PC4258, PC4254 & PC6405  
INSTALL WITH HEAD ON STRUT SIDE  
W/WASHER & LOCKWASHER UNDER HEX NUT

IEW "G-G"  
@ POST #1)

## LIST OF MATERIAL

| C    | QTY | DESCRIPTION                       |
|------|-----|-----------------------------------|
|      | 1   | 3/305/BACKUP (GUARDRAIL)          |
|      | 1   | 3/3810/1905/S (GUARDRAIL)         |
| G    | 1   | 3/3810/S SRT-1 (GUARDRAIL)        |
| G    | 1   | 3/3810/S SRT-2 (GUARDRAIL)        |
| OA   | 1   | CABLE ANCHOR BRACKET              |
| 7G   | 1   | 3/BUFFER/ROLLED (TERMINAL)        |
| 00G  | 1   | 19 x 1980 CABLE                   |
| 00G  | 14  | 16 WASHER                         |
| 40G  | 58  | 16 HEX NUT                        |
| 60G  | 44  | 16 Ø x 32 SPLICE BOLT             |
| 80G  | 8   | 16 Ø x 38 HEX HD BOLT             |
| 00G  | 2   | 16 Ø x 50 POST BOLT               |
| 80G  | 4   | 16 Ø x 455 POST BOLT              |
| 01G  | 10  | 19 WASHER                         |
| 04G  | 4   | 19 HEX NUT                        |
| 18G  | 4   | 19 Ø x 76 HEX HD BOLT (A325)      |
| 00G  | 1   | 25 WASHER                         |
| 10G  | 2   | 25 HEX NUT                        |
| 63B  | 4   | WOOD 1803 POST 150 x 200 CRT      |
| 75B  | 4   | WOOD 360 BLOCK 150 x 200 DR       |
| 54G  | 5   | 10 WASHER                         |
| 58G  | 4   | 10 LOCKWASHER                     |
| 61G  | 1   | 10 Ø x 38 HEX HD BOLT (GR 5)      |
| 99G  | 4   | 19 LOCKWASHER                     |
| 21G  | 4   | 10 Ø x 50 HEX HD BOLT (GR 5)      |
| 05G  | 5   | 10 HEX NUT                        |
| 60G  | 4   | SLOT GUARD                        |
| 61G  | 1   | 10 x 76 x 102 PLATE WASHER        |
| 376A | 1   | HBA POST 1 TOP (W150 x 13)        |
| 377A | 1   | HBA POST 2 TOP (W150 x 13)        |
| 378A | 2   | HBA POST 1 & 2 BOT (TS 152 x 102) |
| 379G | 2   | ANGLE STRUT 2 x 2 x 3/8           |
| 380G | 1   | 25 x 152 x 203 BEARING PLATE      |
| 381G | 1   | CABLE WEB PI 102 x 6              |

ALL DIMENSIONS ARE IN  
MILLIMETERS UNLESS OTHERWISE SHOWN

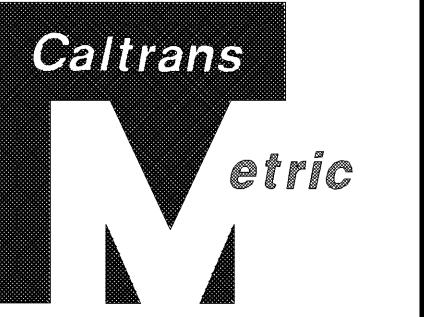
# **CONSTRUCTION DETAILS**

## **LOTTED RAIL TERMINAL (TYPE SRT)**

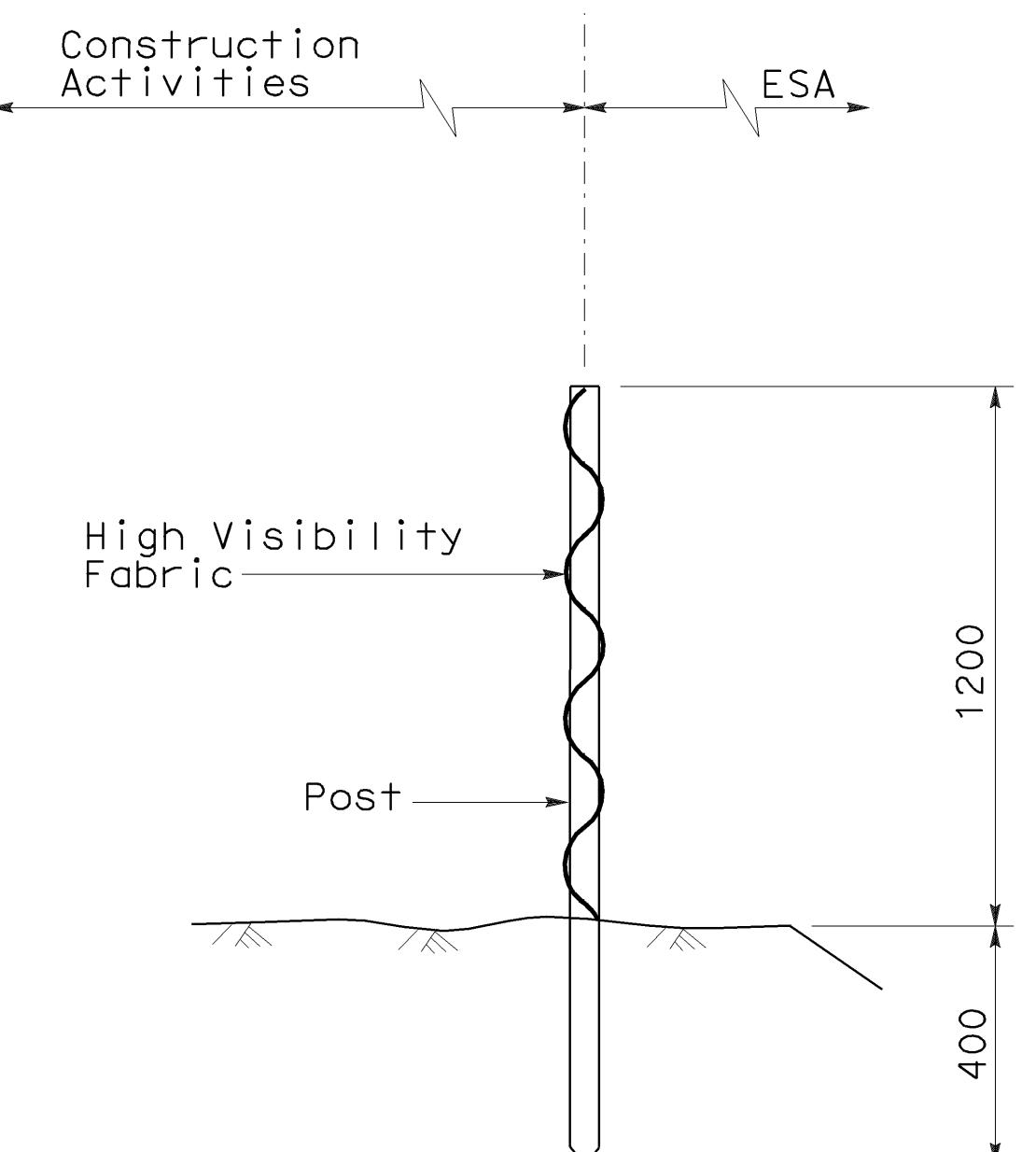
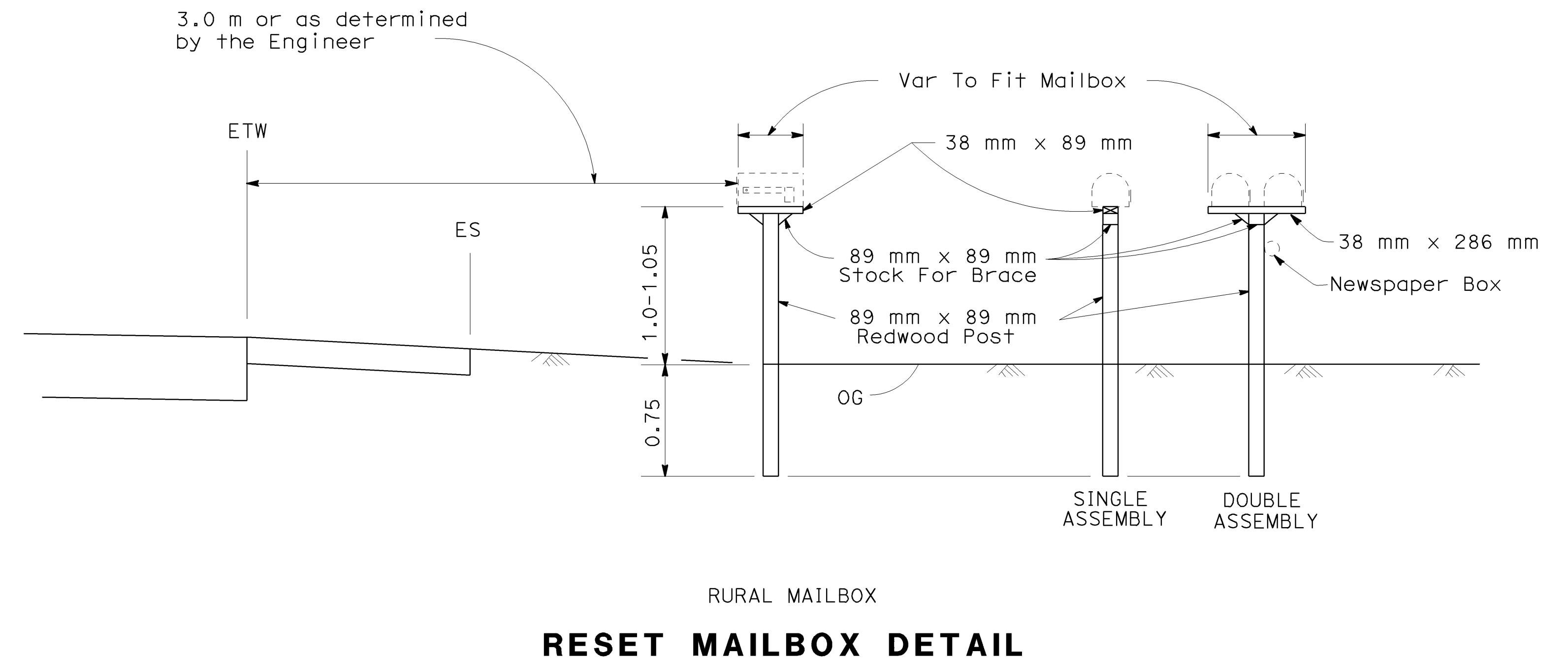
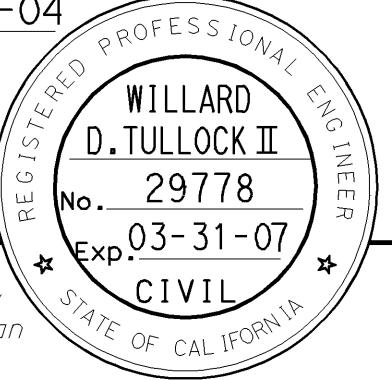
### **(HBA POSTS)**

NO SCALE

NOTE: EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



|  |         |       |                                 |          |              |
|--|---------|-------|---------------------------------|----------|--------------|
| DIST   | COUNTY  | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
| 05   | SB, SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 70       | 155          |
| Willard 01-26-04<br>REGISTERED CIVIL ENGINEER  |         |       |                                 |          |              |
| 11-29-04 PLANS APPROVAL DATE   |         |       |                                 |          |              |
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## TEMPORARY FENCE (TYPE ESA)

**AS BUILT**  
(NO CORRECTIONS ON THIS SHEET)  
CONTRACT NO. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

ALL DIMENSIONS ARE IN  
MILLIMETERS UNLESS OTHERWISE SHOWN

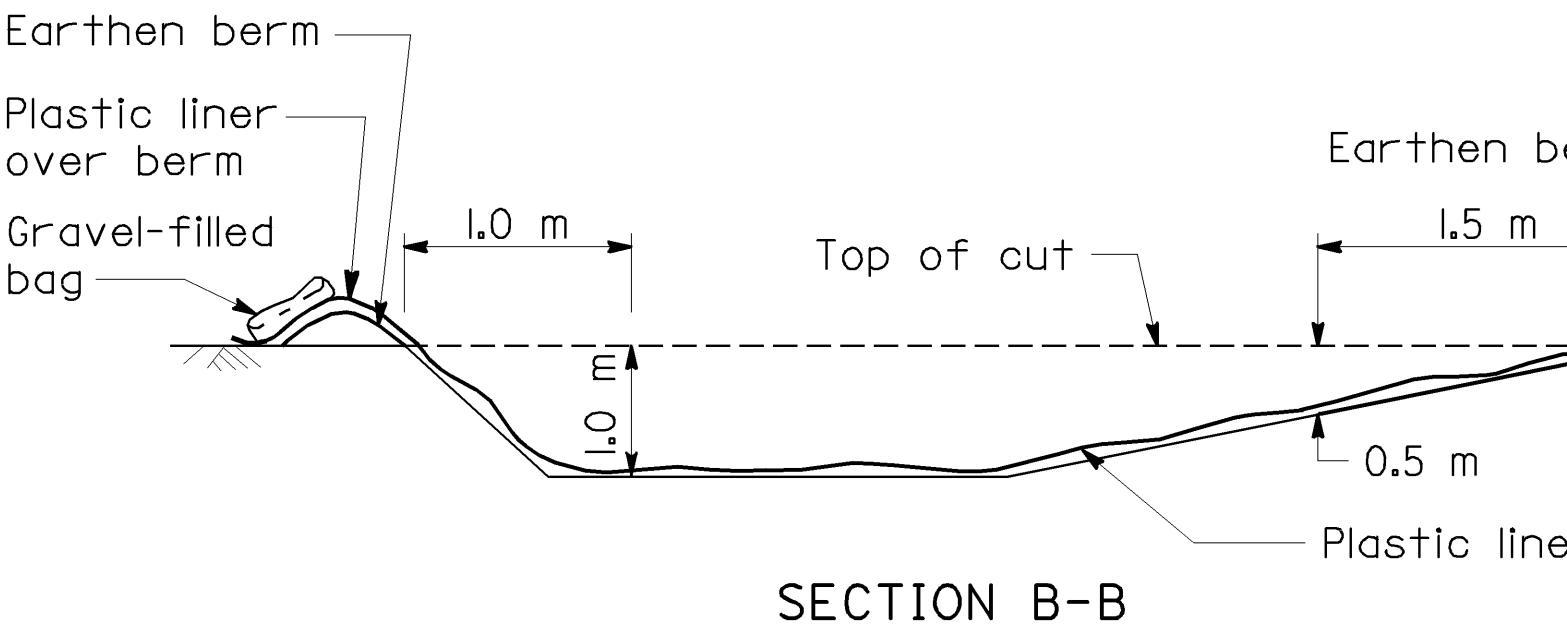
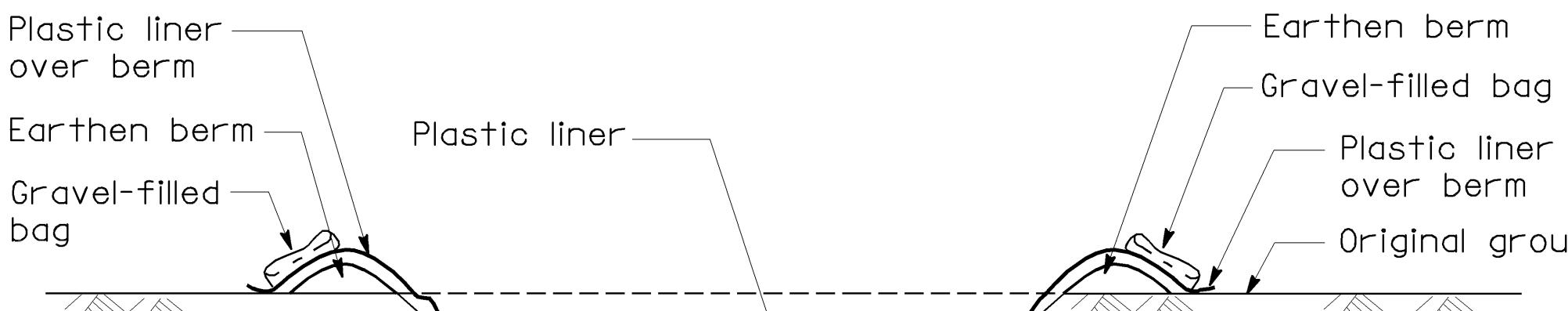
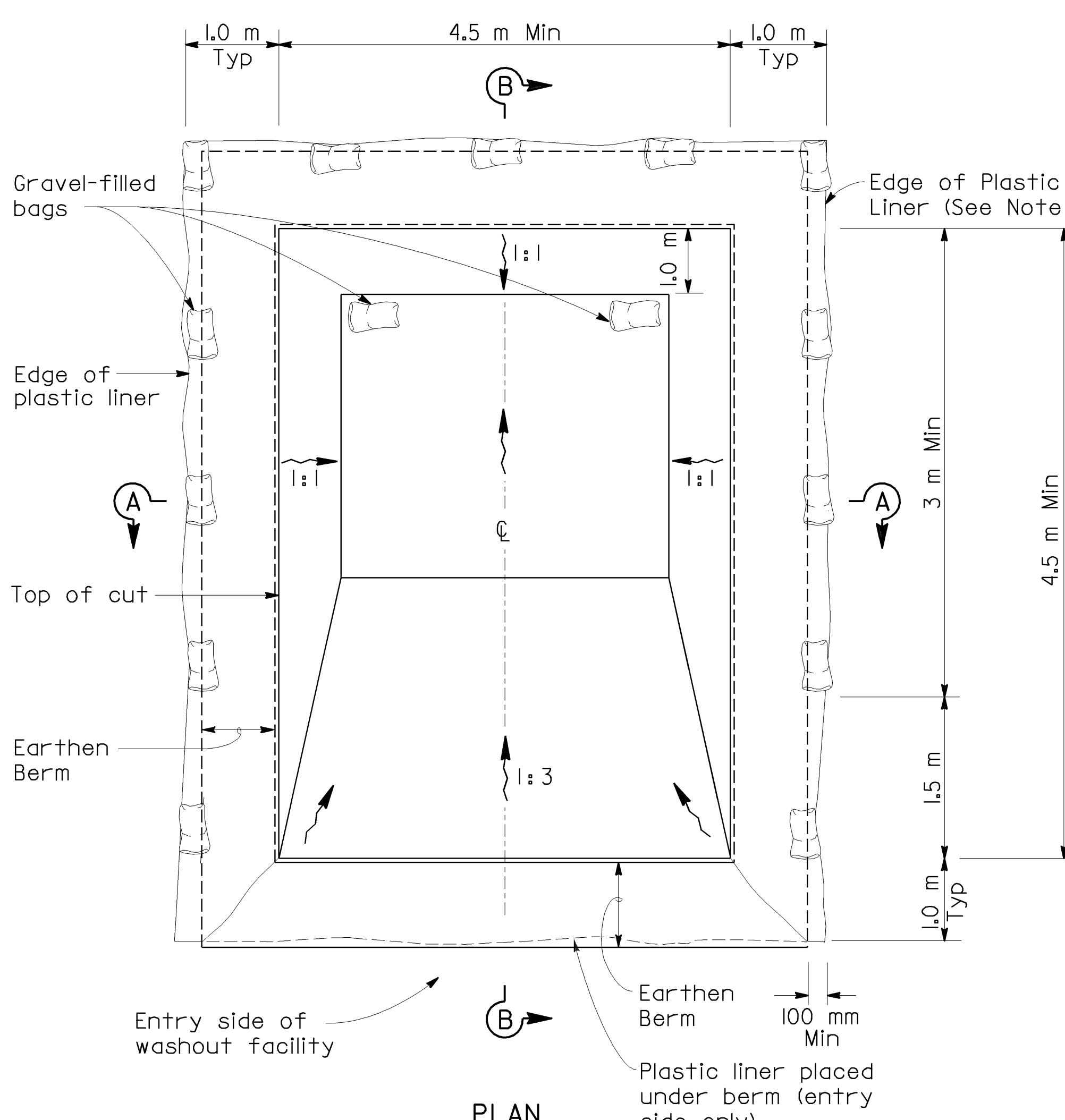
## CONSTRUCTION DETAILS

NO SCALE

**C-7**

**TEMPORARY CONCRETE WASHOUT FACILITY**

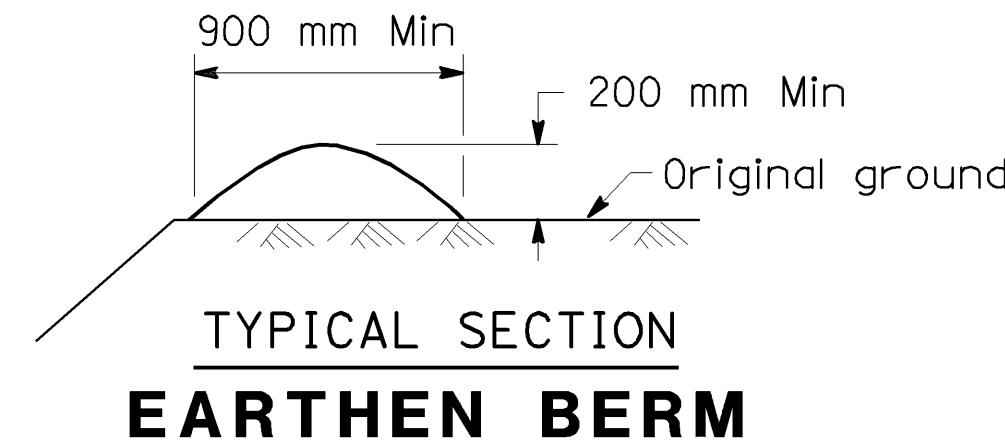
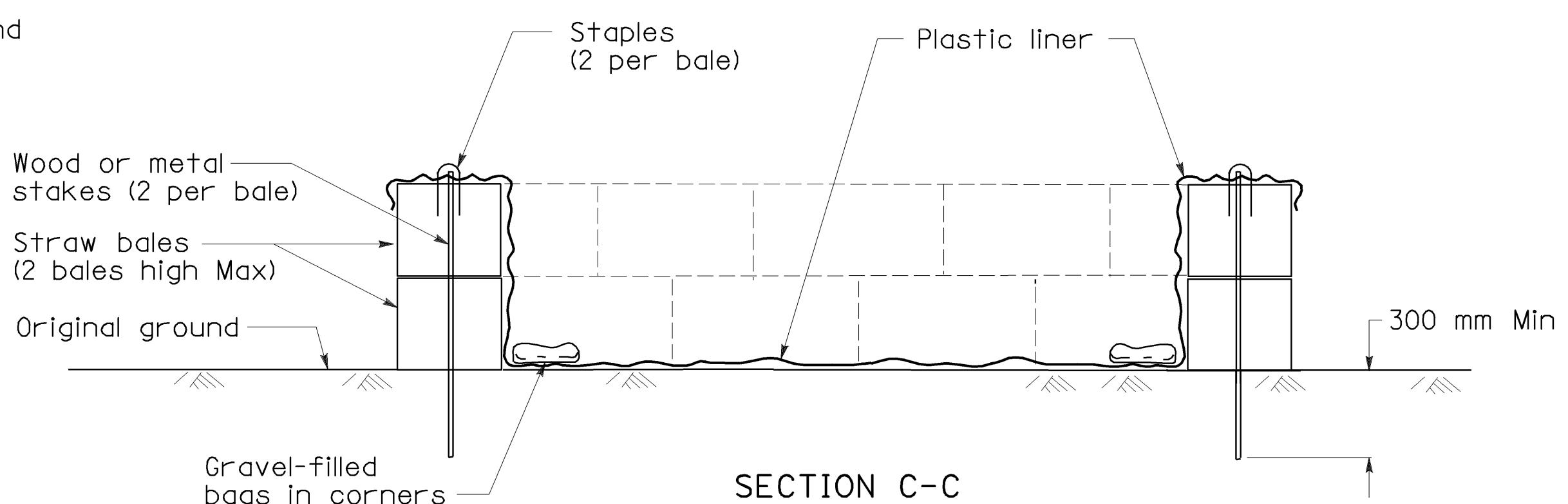
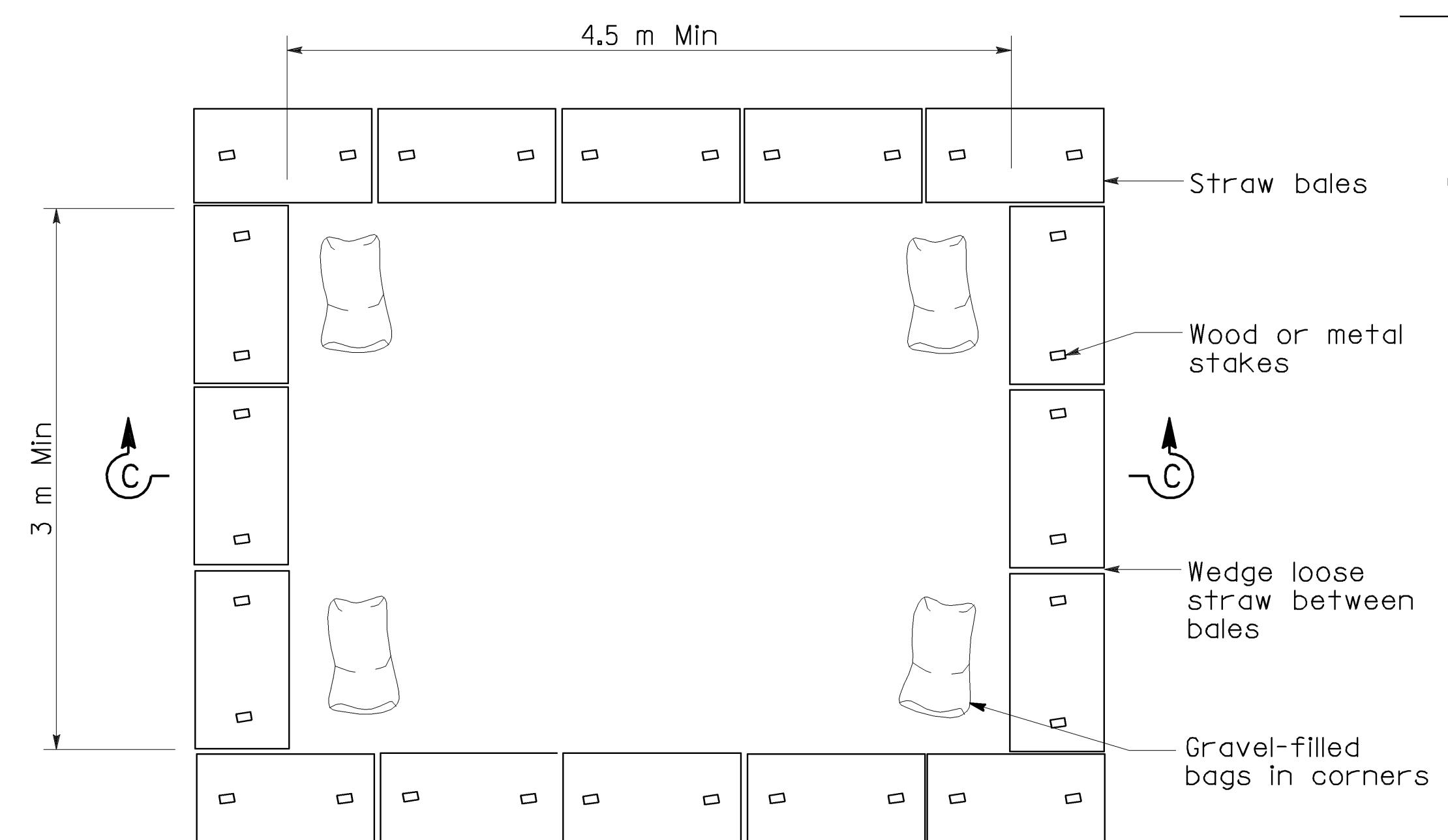
(Below Grade)

**SECTION B-B****SECTION A-A****PLAN****TEMPORARY CONCRETE WASHOUT FACILITY**

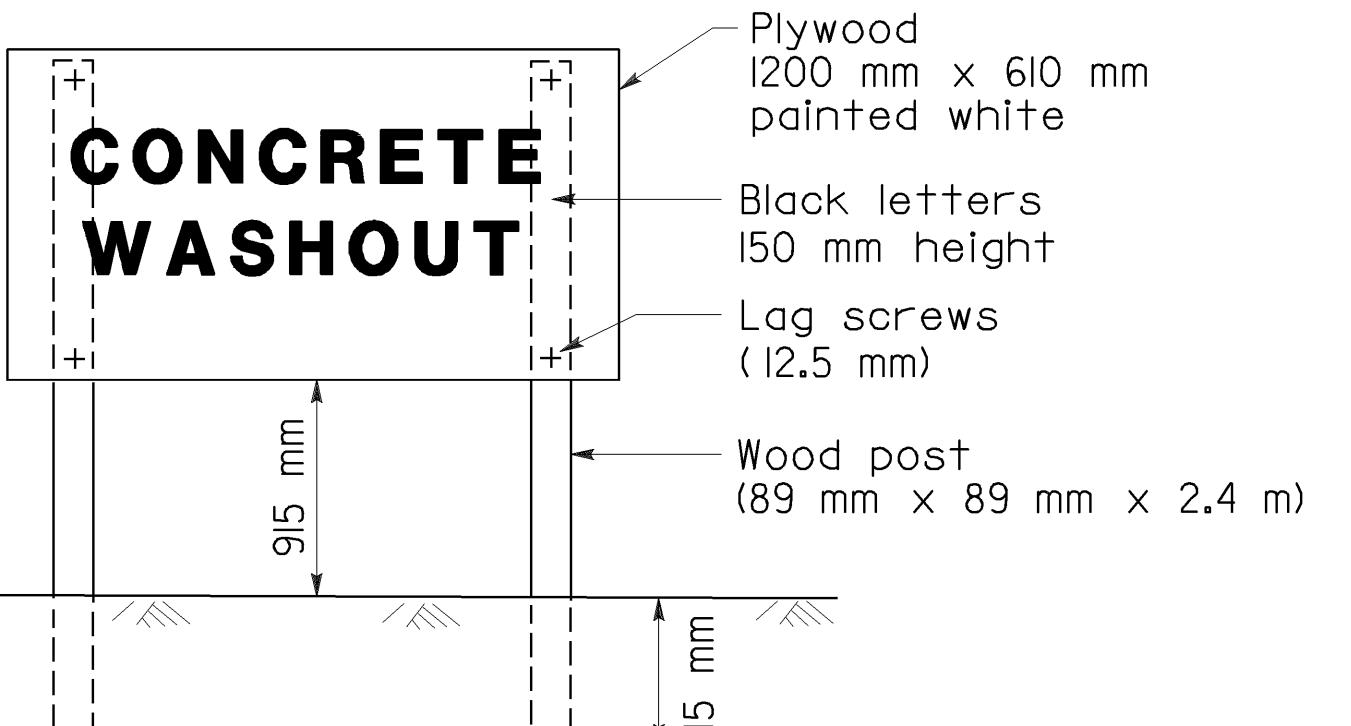
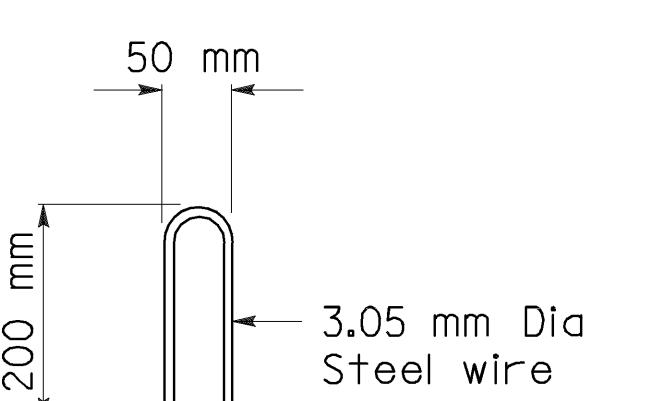
(On Grade)

ALL DIMENSIONS ARE IN  
MILLIMETERS UNLESS OTHERWISE SHOWN**TEMPORARY WATER POLLUTION  
CONTROL DETAILS  
(TEMPORARY CONCRETE  
WASHOUT FACILITY)****WPCD-1**

NO SCALE

**TYPICAL SECTION  
EARTHEN BERM****SECTION C-C**

|                                |
|--------------------------------|
| <b>AS BUILT</b>                |
| (NO CORRECTIONS ON THIS SHEET) |
| CONTRACT NO. 05-0A4004         |
| C.C.A. DATE 08-30-06           |
| R.E. NAME M.Lew                |

**CONCRETE WASHOUT  
SIGN DETAIL****STAPLE DETAIL****NOTES**

1. The concrete washout sign shall be installed within 10 meters of the temporary concrete washout facility.
2. Plastic liner shall be anchored with gravel-filled bags for below grade concrete washout facility.

Caltrans

Metric

|      |        |       |                                 |          |              |
|------|--------|-------|---------------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 71       | 155          |

Katherine Brown  
LICENSED LANDSCAPE ARCHITECT  
11-29-04  
PLANS APPROVAL DATE

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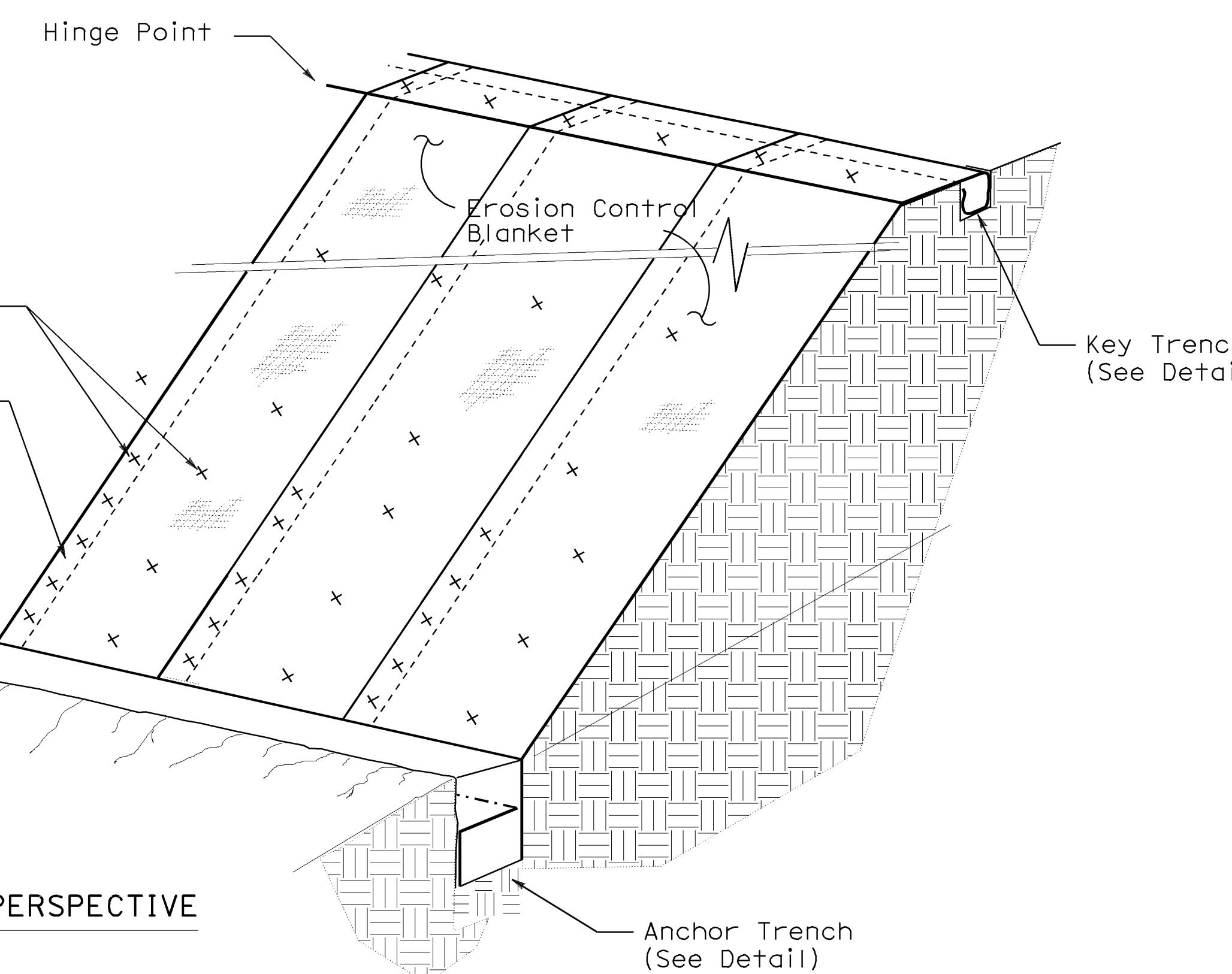
Caltrans now has a web site! To get to the web site, go to: <http://www.dot.ca.gov>

Staple Pattern  
(See Detail)

Blanket Overlap  
(See Detail)

PERSPECTIVE

### EROSION CONTROL BLANKET

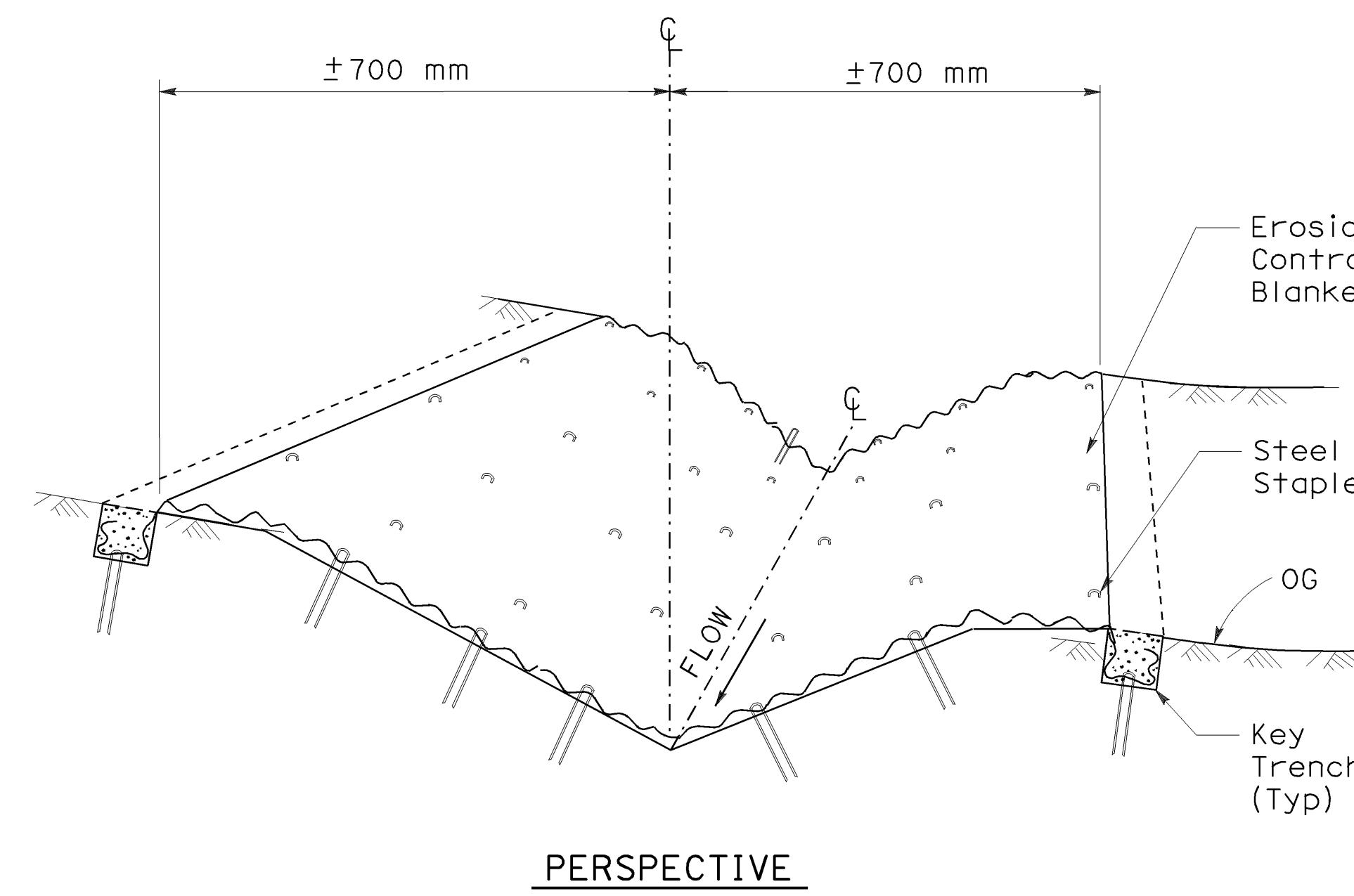


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METERS UNLESS OTHERWISE SHOWN

**AS BUILT**  
(NO CORRECTIONS ON THIS SHEET)  
CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

### EROSION CONTROL DETAILS ECD-1

NO SCALE



### EROSION CONTROL BLANKET AT CENTER FLOW LINE

DESIGNED BY

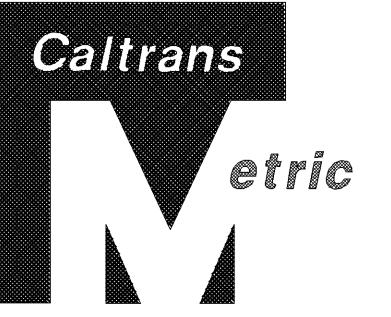
CHECKED BY

DATE

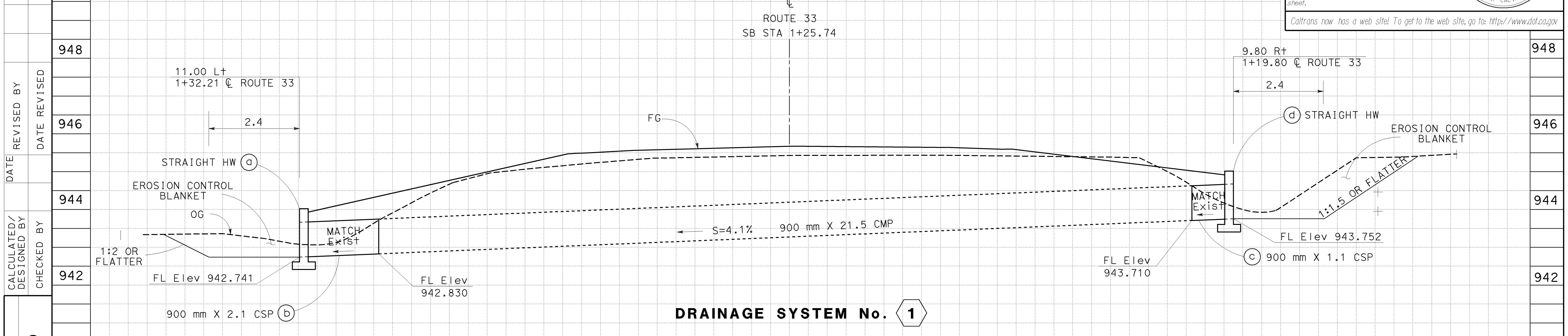
REVISED BY

**NOTES:**

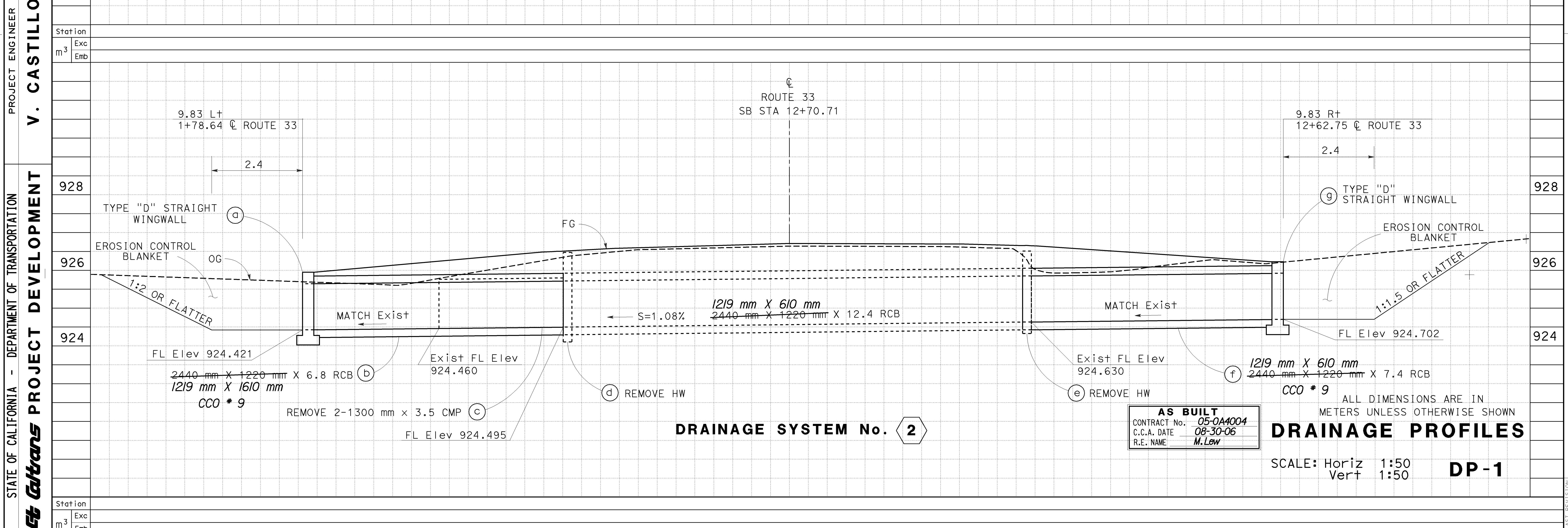
1. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.
2. EXISTING DRAINAGE LOCATIONS ARE APPROXIMATE ONLY, VERIFY LOCATION AND ELEVATION BEFORE MODIFYING EXISTING DRAINAGE FACILITIES.
3. CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
4. FOR EROSION CONTROL BLANKET PLACEMENT SEE EROSION CONTROL DETAILS SHEET



| DIST  | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET<br>NO | TOTAL<br>SHEETS |
|---|--------|-------|---------------------------------|-------------|-----------------|
| 05  | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 73          | 155             |
|   |        |       | <i>Willard</i>                  | 01-26-04    |                 |
| REGISTERED CIVIL ENGINEER   |        |       |                                 |             |                 |
| 11-29-04  |        |       |                                 |             |                 |
| PLANS APPROVAL DATE   |        |       |                                 |             |                 |
| <p>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</p> |        |       |                                 |             |                 |
|   |        |       |                                 |             |                 |
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# DRAINAGE SYSTEM No. 1



# DRAINAGE SYSTEM No. 2

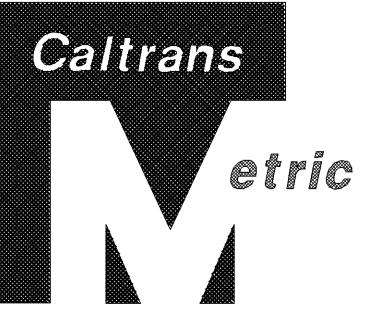
|                 |                  |
|-----------------|------------------|
| <b>AS BUILT</b> |                  |
| CONTRACT No.    | <u>05-0A4004</u> |
| C.C.A. DATE     | <u>08-30-06</u>  |
| P.F. NAME       | <u>M. Law</u>    |

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN

SCALE: Horiz 1:50  
Vert 1:50

DP-1

NOTE: EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.

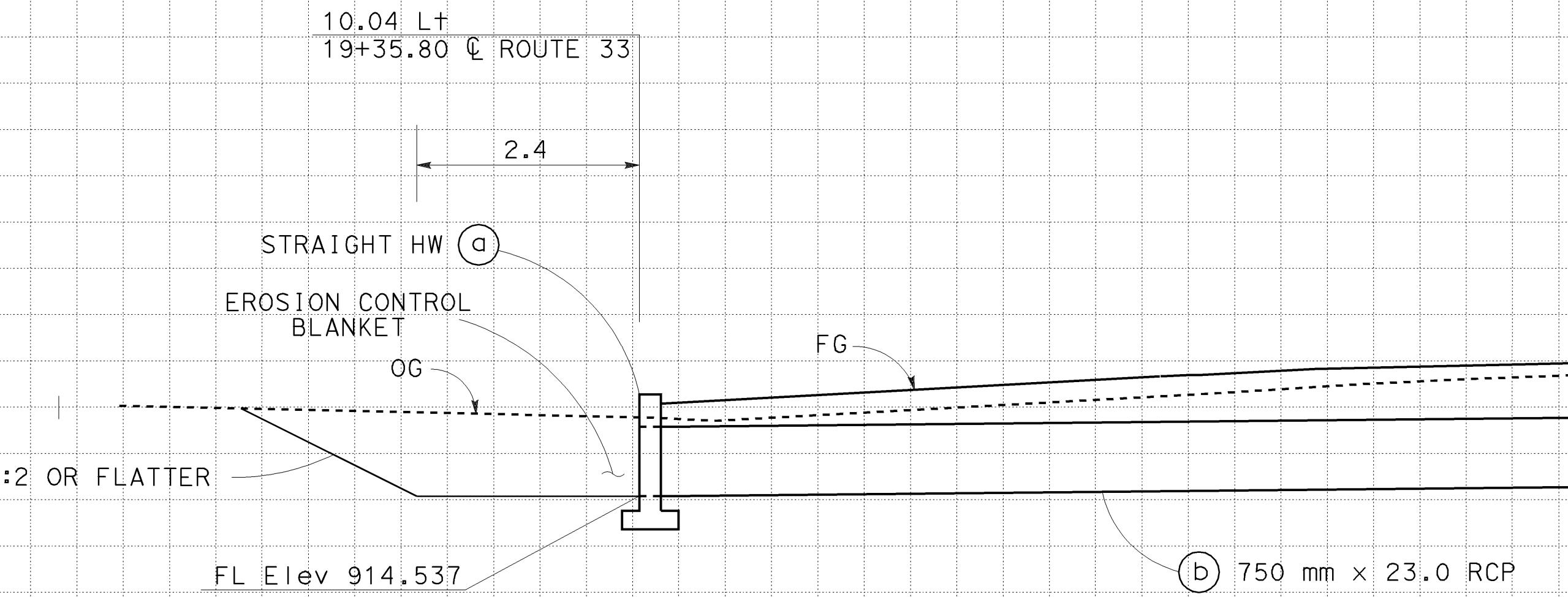
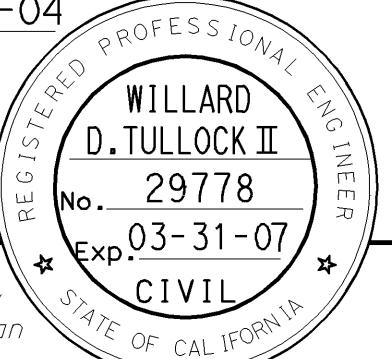


|      |        |       |                                 |                          |
|------|--------|-------|---------------------------------|--------------------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO<br>TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 74 155                   |

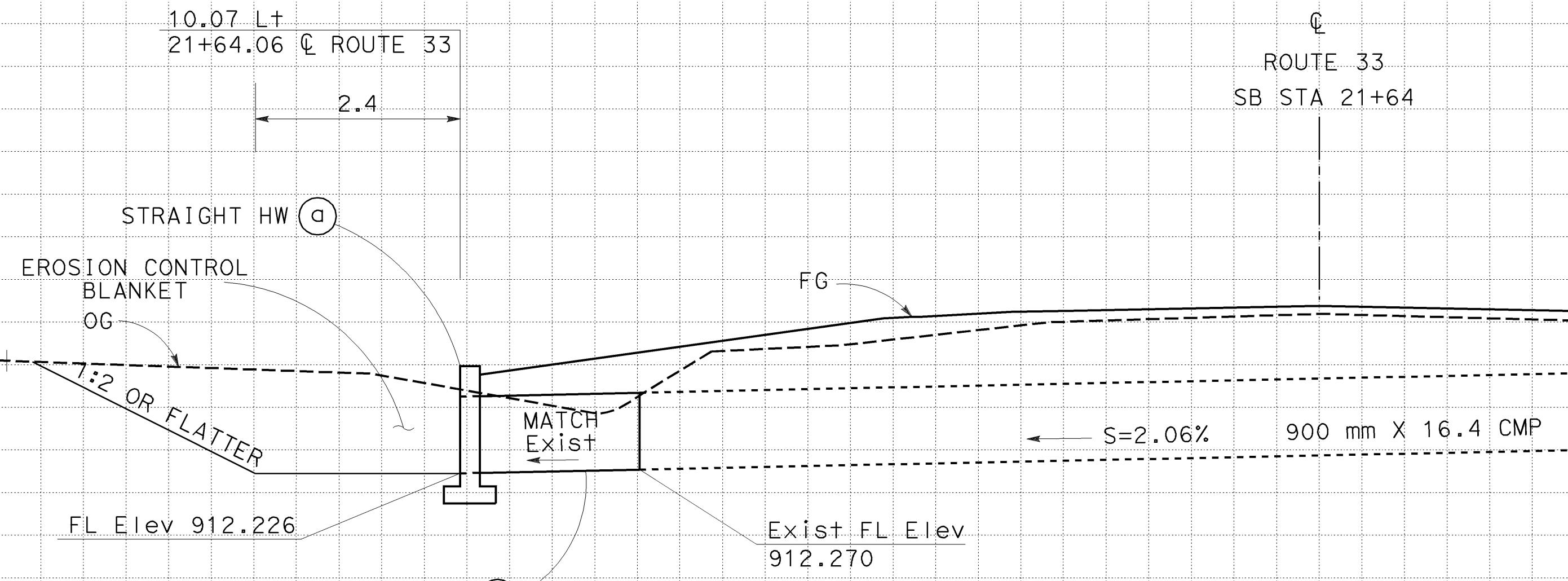
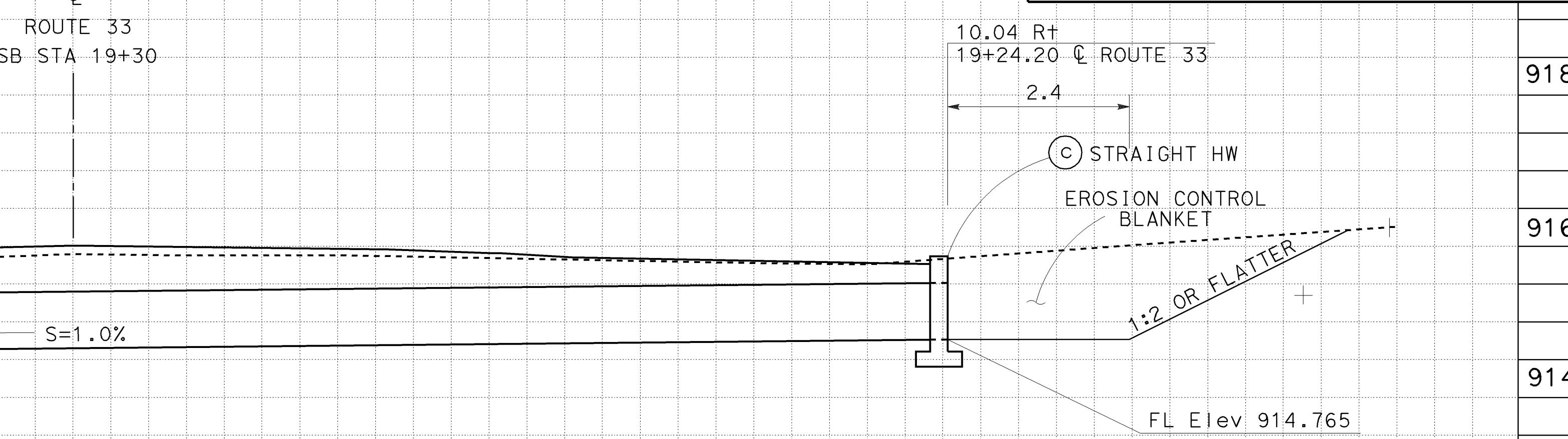
01-26-04  
REGISTERED PROFESSIONAL ENG  
WILLARD D.TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

11-29-04  
PLANS APPROVAL DATE  
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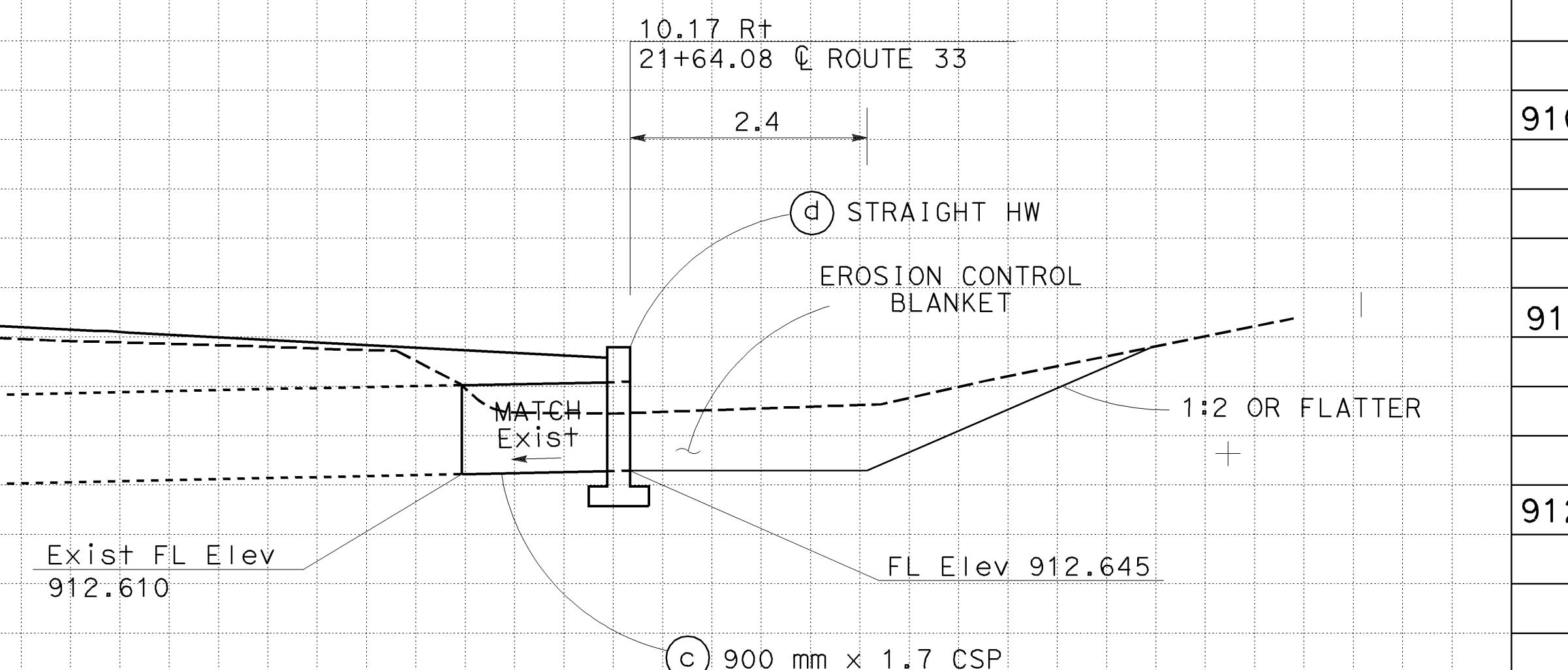
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DRAINAGE SYSTEM No. 3



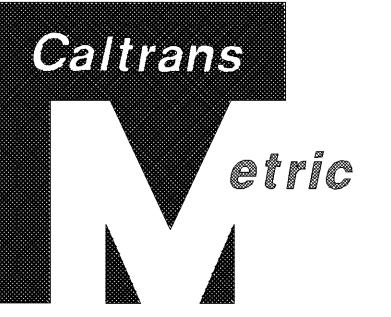
DRAINAGE SYSTEM No. 4

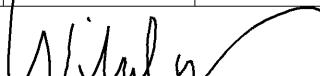
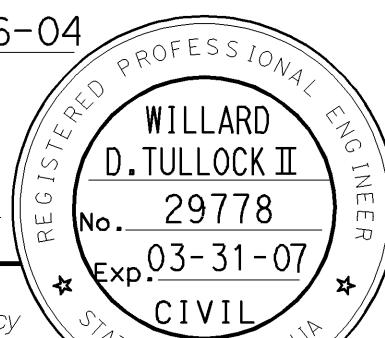


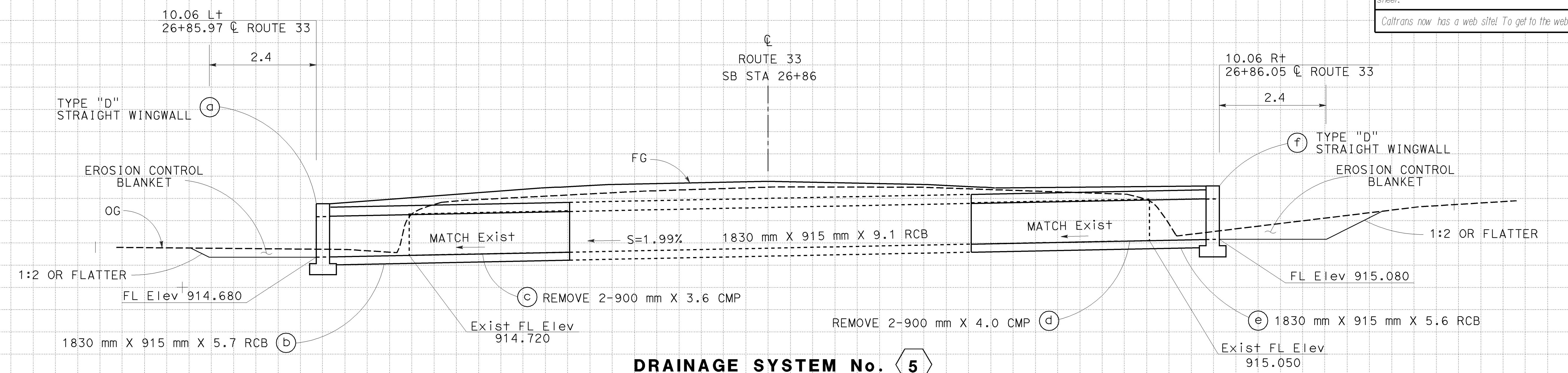
**AS BUILT**  
(NO CORRECTIONS ON THIS SHEET)  
CONTRACT NO. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M.Lew

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN**DRAINAGE PROFILES**SCALE: Horiz 1:50  
Vert 1:50**DP-2**

NOTE: EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



| LIST  | COUNTY  | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET<br>No | TOTAL<br>SHEETS |
|---|---------|-------|---------------------------------|-------------|-----------------|
| 05  | SB, SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 75          | 155             |
|  <span style="margin-left: 100px;">01-26-04</span>                               |         |       |                                 |             |                 |
| REGISTERED CIVIL ENGINEER   |         |       |                                 |             |                 |
| <span style="float: left; margin-right: 20px;">11-29-04</span> <span style="float: right;">PLANS APPROVAL DATE</span>   |         |       |                                 |             |                 |
| <p>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</p>         |         |       |                                 |             |                 |
|    |         |       |                                 |             |                 |
| <span style="float: right;">920</span> <p>Caltrans now has a web site! To get to the web site, go to: <a href="http://www.dot.ca.gov">http://www.dot.ca.gov</a></p> |         |       |                                 |             |                 |



# DRAINAGE SYSTEM No. 5

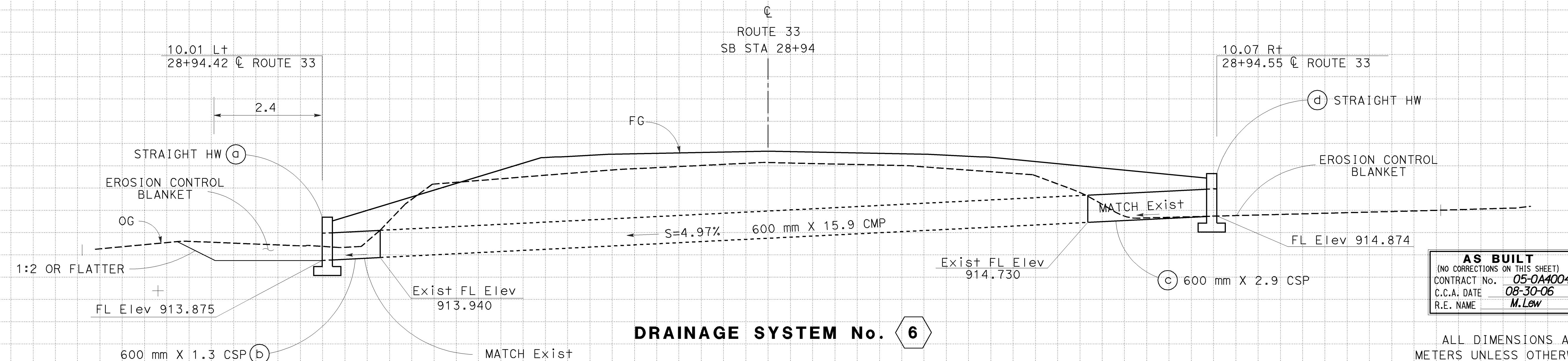
MENSIONS ARE IN  
LESS OTHERWISE SHOWN

# DRainage Profiles

# DRainage Profiles

CALE: Horiz 1:50  
Vert 1:50

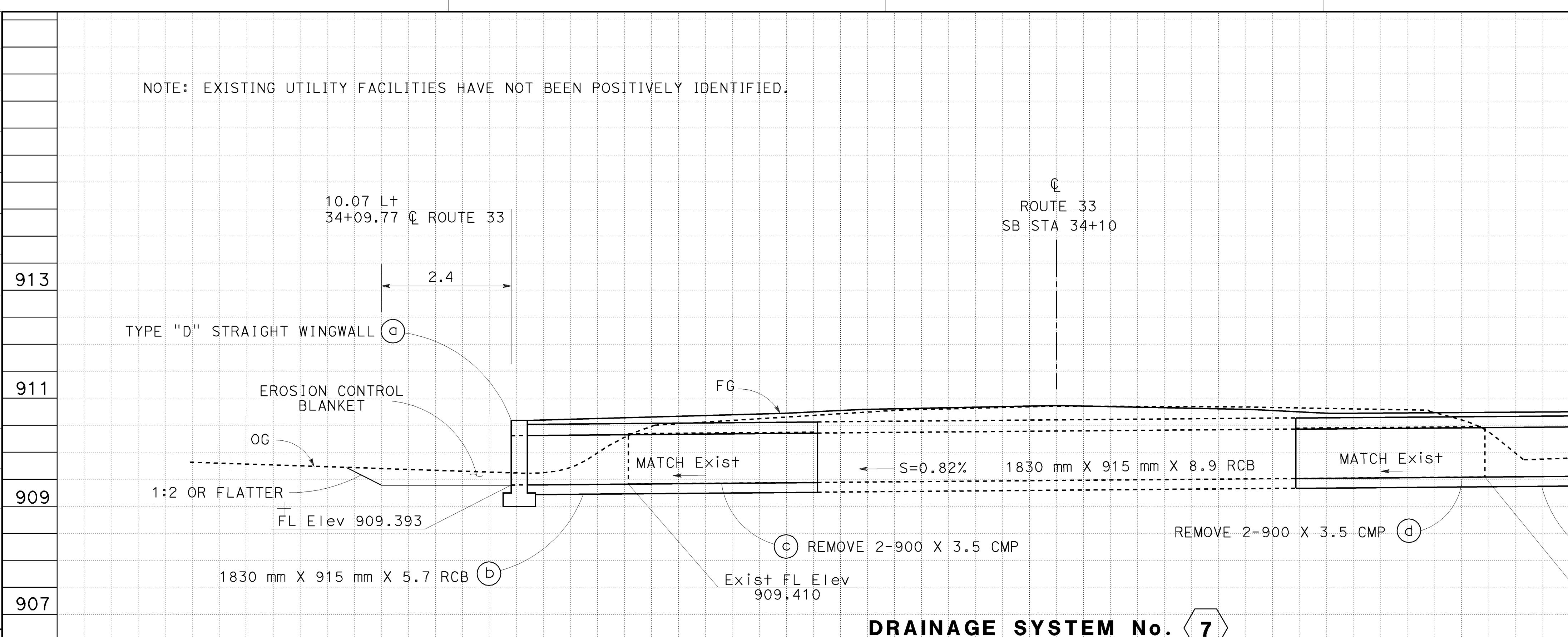
DP - 3



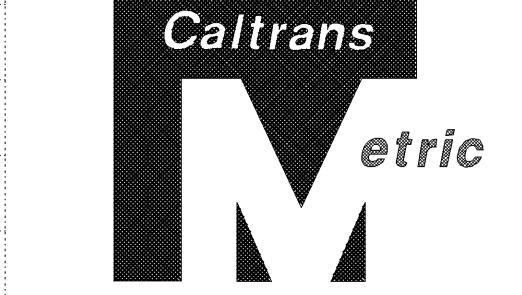
**DRAINAGE SYSTEM No. 6**

**BUILT**  
NS ON THIS SHEET)  
D. 05-0A4004  
08-30-06  
Mew

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN



**AS BUILT**  
CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew



|      |        |       |                                 |                          |
|------|--------|-------|---------------------------------|--------------------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO<br>TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 76 155                   |

01-26-04  
REGISTERED PROFESSIONAL ENG.  
WILLARD D.TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

11-29-04  
PLANS APPROVAL DATE  
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LAST REVISION 01-22-04 DATE PLOTTED => 16-JAN-2007  
TIME PLOTTED => 10:58

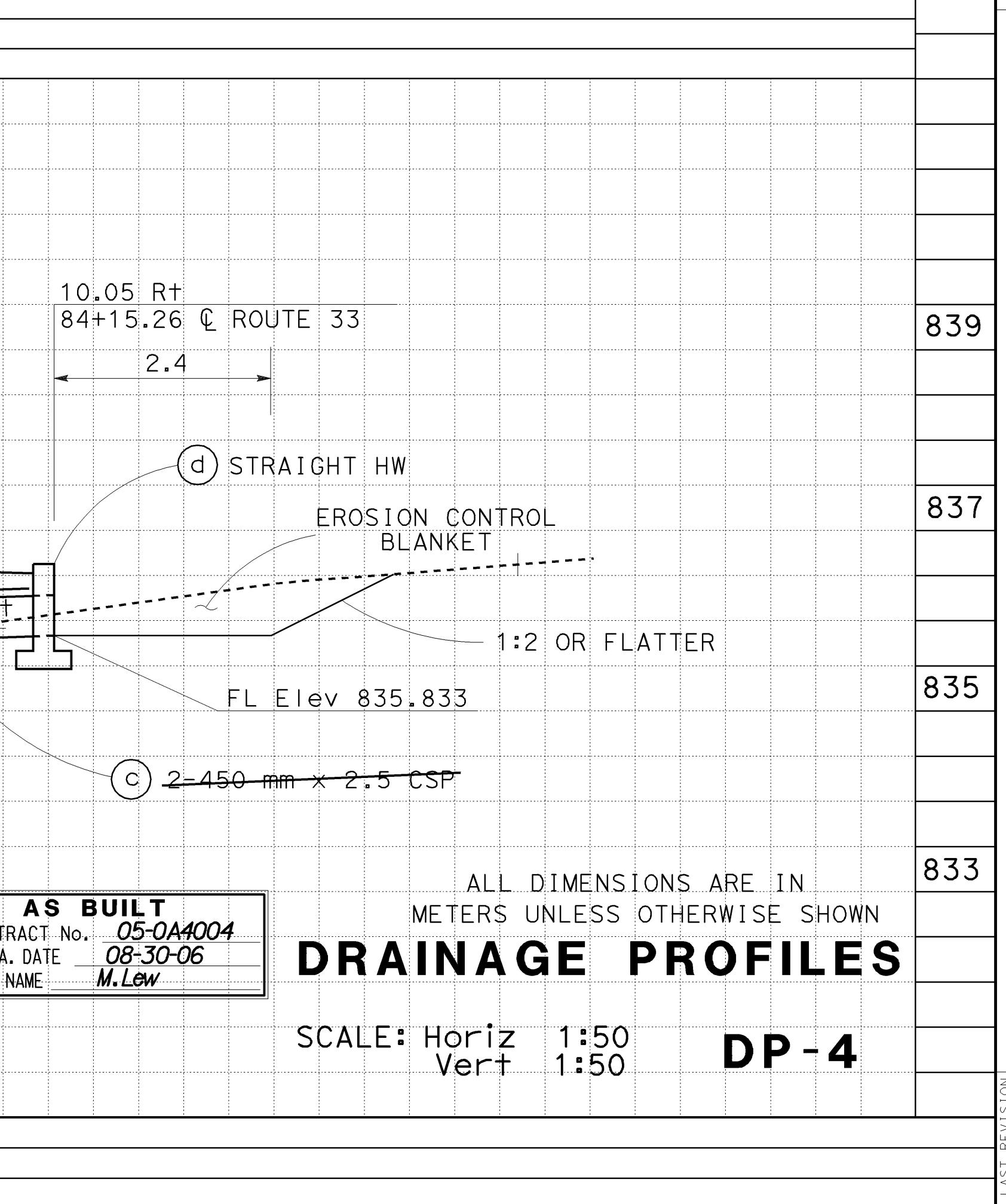
ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN

## DRAINAGE PROFILES

SCALE: Horiz 1:50  
Vert 1:50

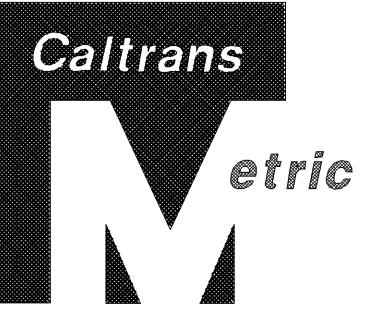
**DP-4**

CU 06227 EA 0A4001





NOTE: EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.

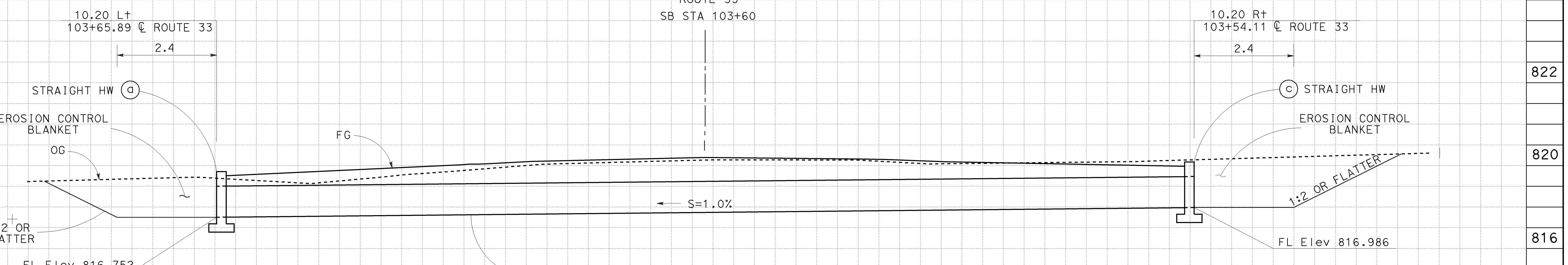
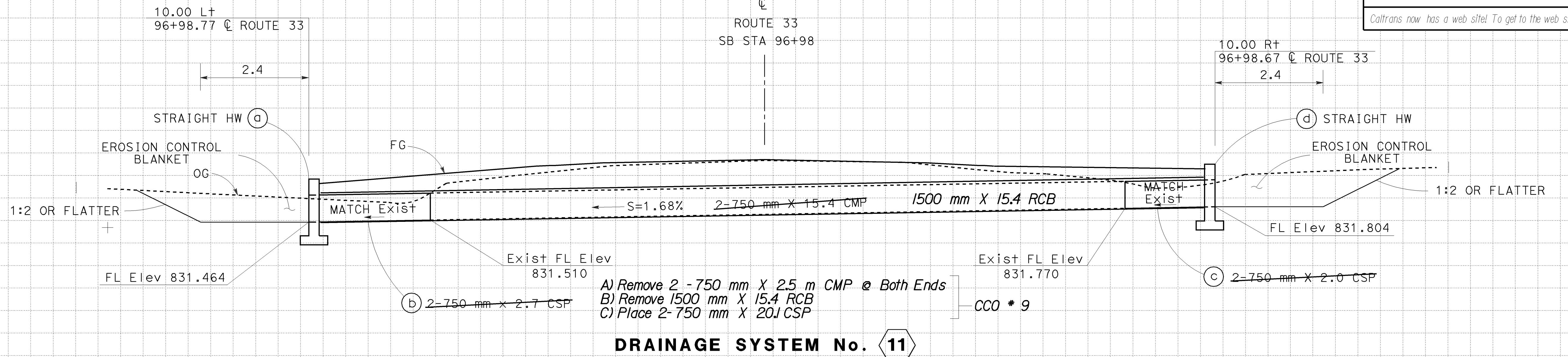


|      |        |       |                                 |                          |
|------|--------|-------|---------------------------------|--------------------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO<br>TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 78 155                   |

01-26-04  
REGISTERED CIVIL ENGINEER  
WILLARD D.TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

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| AS BUILT     |           |  |  |
|--------------|-----------|--|--|
| CONTRACT NO. | 05-0A4004 |  |  |
| C.C.A. DATE  | 08-30-06  |  |  |
| R.E. NAME    | M.Lew     |  |  |

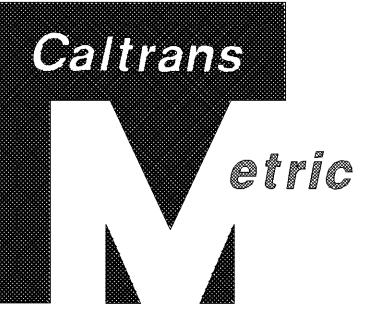
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METERS UNLESS OTHERWISE SHOWN

## DRAINAGE PROFILES

SCALE: Horiz 1:50  
Vert 1:50

DP-6

NOTE: EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



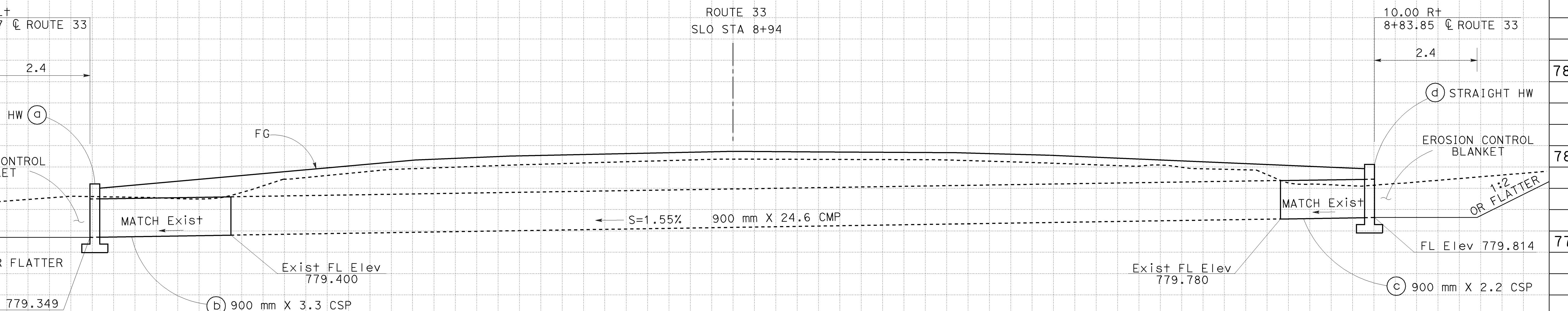
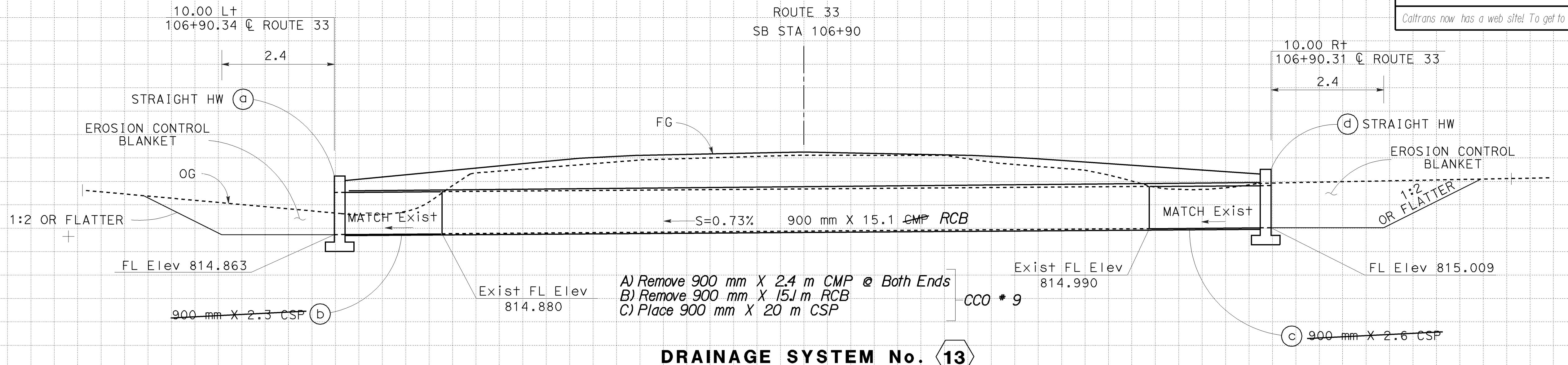
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|------|--------|-------|---------------------------------|--------------------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO<br>TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 79 155                   |

01-26-04  
REGISTERED PROFESSIONAL ENG  
WILLARD D.TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

11-29-04  
PLANS APPROVAL DATE

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| AS BUILT     |           |             |          |
|--------------|-----------|-------------|----------|
| CONTRACT No. | 05-0A4004 | C.C.A. DATE | 08-30-06 |
| R.E. NAME    | M.Lew     |             |          |

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN

## DRAINAGE PROFILES

SCALE: Horiz 1:50  
Vert 1:50 DP-7

**Caltrans PROJECT DEVELOPMENT**

CALCULATED/  
DESIGNED BY

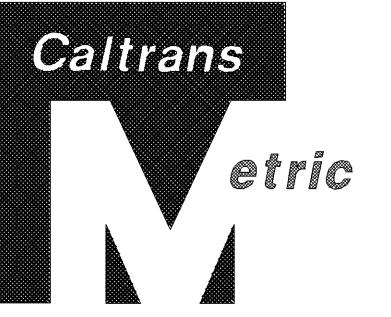
PROJECT ENGINEER

V. CASTILLO

DEPARTMENT OF TRANSPORTATION

Station  
m<sup>3</sup>  
Exc  
Emb

NOTE: EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.

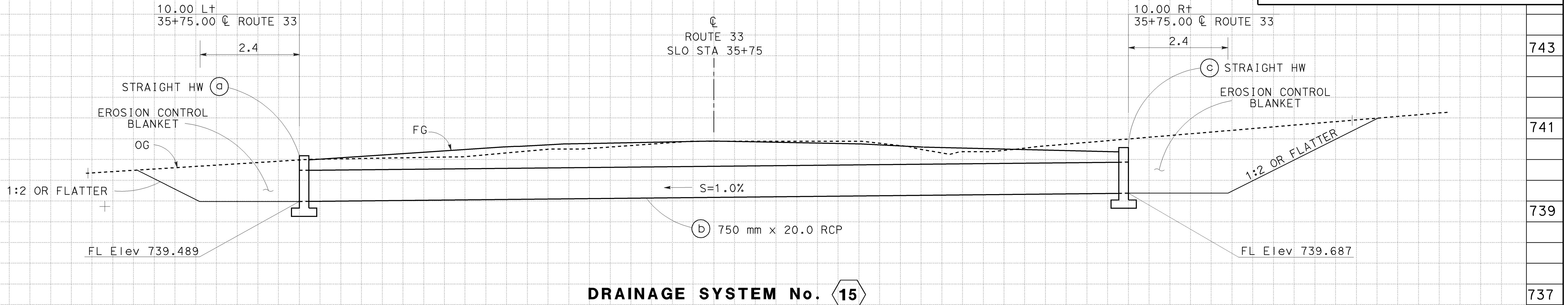


|      |        |       |                                 |          |              |
|------|--------|-------|---------------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 80       | 155          |

01-26-04  
REGISTERED CIVIL ENGINEER  
WILLARD D.TULLOCK II  
No. 29778  
Exp. 03-31-07  
CIVIL  
STATE OF CALIFORNIA

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**AS BUILT**  
(NO CORRECTIONS ON THIS SHEET)  
CONTRACT NO. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M.Lew

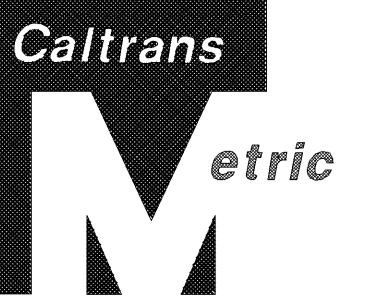
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## DRAINAGE PROFILE

SCALE: Horiz 1:50  
Vert 1:50      DP-8

DATE REVISED BY

DATE REVISED



|  |        |       |                                 |          |              |
|--|--------|-------|---------------------------------|----------|--------------|
| DIST   | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 124      | 155          |
| 10-18-04<br>REGISTERED CIVIL ENGINEER  |        |       |                                 |          |              |
| 11-29-04<br>PLANS APPROVAL DATE  |        |       |                                 |          |              |
| The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet. |        |       |                                 |          |              |
| WILLARD D.TULLOCK II<br>No. 29778<br>Exp 03-31-07<br>CIVIL<br>STATE OF CALIFORNIA  |        |       |                                 |          |              |

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## PAVEMENT DELINEATION QUANTITIES

| SHEET No. | STATION LIMIT          | THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE) |                                 |                                   |                     |                                   | PAVEMENT MARKER      | THERMOPLASTIC PAVEMENT MARKING |        |          | DELINERATOR (CLASS 1) |
|-----------|------------------------|--|---------------------------------|-----------------------------------|---------------------|-----------------------------------|----------------------|--------------------------------|--------|----------|-----------------------|
|           |                        | DETAIL 27B                               | DETAIL 27C                      | DETAIL 6                          | DETAIL 19           | DETAIL 22                         |                      | 300 mm LIMIT LINE              | STOP   | AHEAD    |                       |
|           |                        | 100 mm SOLID WHITE                       | 100 mm WHITE (BROKEN 3.66-0.92) | 100 mm YELLOW (BROKEN 10.98-3.66) | 100 mm SOLID YELLOW | 100 mm YELLOW (BROKEN 10.98-3.66) | 100 mm DOUBLE YELLOW | TYPE D                         | TYPE H | TYPE F-1 |                       |
|           |                        | m  |                                 |                                   |                     |                                   | EA                   | m <sup>2</sup>                 |        | EA       |                       |
| PD-1      | 0+10.0 to 5+80.0       | 1140                                     |                                 |                                   |                     | 570                               | 156                  |                                |        |          |                       |
| PD-2      | 5+80.0 to 12+40.0      | 1320                                     |                                 |                                   |                     | 660                               | 180                  |                                |        |          |                       |
| PD-3      | 12+40.0 to 19+20.0     | 1360                                     |                                 | 260                               |                     | 420                               | 133                  |                                |        |          |                       |
| PD-4      | 19+20.0 to 25+80.0     | 1320                                     |                                 | 640                               | 20                  |                                   | 47                   | 4                              |        |          |                       |
| PD-5      | 25+80.0 to 32+40.0     | 1320                                     |                                 |                                   | 360                 | 300                               | 110                  | 50                             |        |          |                       |
| PD-6      | 32+40.0 to 39+20.0     | 1330                                     | 30                              |                                   | 350                 | 330                               | 117                  | 49                             | 2.98   | 2.04     |                       |
| PD-7      | 39+20.0 to 45+80.0     | 1320                                     |                                 | 560                               | 100                 |                                   | 47                   | 15                             |        |          |                       |
| PD-8      | 45+80.0 to 52+40.0     | 1320                                     | 42                              | 410                               | 220                 |                                   | 45                   | 31                             | 4.02   | 4.08     |                       |
| PD-9      | 52+40.0 to 59+20.0     | 1360                                     |                                 | 210                               | 470                 |                                   | 48                   | 65                             |        |          |                       |
| PD-10     | 59+20.0 to 65+80.0     | 1320                                     |                                 | 500                               | 160                 |                                   | 47                   | 23                             |        |          |                       |
| PD-11     | 65+80.0 to 72+40.0     | 1320                                     |                                 | 660                               |                     |                                   | 46                   |                                |        |          |                       |
| PD-12     | 72+40.0 to 79+20.0     | 1360                                     |                                 | 680                               |                     |                                   | 47                   |                                |        |          |                       |
| PD-13     | 79+20.0 to 85+80.0     | 1320                                     |                                 | 490                               | 170                 |                                   | 47                   | 24                             |        |          |                       |
| PD-14     | 85+80.0 to 92+40.0     | 1320                                     |                                 |                                   | 230                 | 430                               | 137                  | 32                             |        |          | 1                     |
| PD-15     | 92+40.0 to 99+20.0     | 1360                                     |                                 | 400                               | 210                 | 70                                | 64                   | 30                             |        |          | 4                     |
| PD-16     | 99+20.0 to 105+80.0    | 1320                                     |                                 | 660                               |                     |                                   | 46                   |                                |        |          |                       |
| PD-17     | 105+80.0 to 112+40.0   | 1320                                     |                                 | 440                               | 220                 |                                   | 47                   | 31                             |        |          |                       |
| PD-18     | 112+40.0 to 119+20.0   | 1315                                     | 45                              |                                   | 112                 | 539                               | 148                  | 17                             | 3.48   | 2.04     |                       |
| PD-19     | 119+20.0 to 125+80.0   | 1295                                     | 25                              | 660                               | 142                 |                                   | 57                   | 21                             |        |          |                       |
| PD-20     | 125+80.0 to 1+80.0     | 1221                                     | 30                              | 480                               | 150                 |                                   | 45                   | 21                             | 2.53   | 2.04     |                       |
| PD-21     | 1+90.0 to 8+60.0       | 1360                                     |                                 | 510                               | 170                 |                                   | 49                   | 24                             |        |          |                       |
| PD-22     | 8+60.0 to 15+20.0      | 1320                                     |                                 | 510                               | 150                 |                                   | 47                   | 21                             |        |          |                       |
| PD-23     | 15+20.0 to 21+80.0     | 1320                                     |                                 | 660                               |                     |                                   | 46                   |                                |        |          | 8                     |
| PD-24     | 21+80.0 to 28+60.0     | 1360                                     |                                 | 105                               | 215                 | 360                               | 124                  | 30                             |        |          | 1                     |
| PD-25     | 28+60.0 to 35+20.0     | 1320                                     |                                 | 340                               | 320                 |                                   | 47                   | 45                             |        |          |                       |
| PD-26     | 35+20.0 to 41+80.0     | 1320                                     |                                 | 350                               | 310                 |                                   | 47                   | 43                             |        |          |                       |
| PD-27     | 41+80.0 to 43+12.7     | 266                                      |                                 |                                   | 133                 |                                   | 10                   | 19                             | 2.04   | 2.88     |                       |
| PD-28     | 1205+51.4 to 1210+80.0 | 1057                                     |                                 | 320                               |                     | 209                               | 84                   |                                |        |          |                       |
| PD-29     | 1210+80.0 to 1217+40.0 | 1320                                     |                                 | 620                               | 40                  |                                   | 47                   | 7                              |        |          |                       |
| PD-30     | 1217+40.0 to 1224+20.0 | 1360                                     |                                 |                                   | 270                 | 410                               | 133                  | 38                             |        |          |                       |
| PD-31     | 1224+20.0 to 1230+80.0 | 1320                                     |                                 | 160                               | 248                 | 252                               | 89                   | 35                             |        |          |                       |
| PD-32     | 1230+80.0 to 1237+56.1 | 1352                                     |                                 | 500                               | 176                 |                                   | 48                   | 25                             |        |          |                       |
|           | SUBTOTAL               | 40 936                                   | 172                             | 11 125                            | 4946                | 4550                              | 2385                 | 700                            | 13.01  | 12.24    | 2.88                  |
|           | TOTAL                  |  |                                 | 61 729                            |                     | 3085                              |                      |                                | 28.13  |          | 14                    |

**AS BUILT**  
(NO CORRECTIONS ON THIS SHEET)  
CONTRACT NO. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

**PAVEMENT DELINEATION QUANTITIES**  
**PDQ-1**

## STREET INTERSECTIONS

| LOCATION (Y)  | L+/R+ | PLAN SHEET | AREA (m <sup>2</sup> ) | RAC (TYPE G) ** | AC (TYPE A) ** | CLASS2 AB * | ROADWAY Exc *** m <sup>3</sup> |
|---------------|-------|------------|------------------------|-----------------|----------------|-------------|--------------------------------|
| SB STA 36+00  | R+    | L-7        | 337.55                 |                 | 35.52          | 75.95       | 76.00                          |
| SB STA 58+00  | L+/R+ | L-9        | 191.15                 | 22.97           |                |             |                                |
| SB STA 119+00 | R+    | L-19       | 301.60                 | 36.24           |                |             |                                |
| SB STA 131+80 | L+    | L-21       | 115.20                 | 13.84           |                |             |                                |
| TOTAL         |       |            | 73.05                  | 35.52           | 75.95          |             | 76.00                          |

(Y) EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.  
\*\* QUANTITIES INCLUDED IN ROADWAY QUANTITIES TABLE.

## CONCRETE BARRIER TEMPORARY CRASH CUSHION MODULE

| DIRECTION | SHEET No. | (m) |
|-----------|-----------|-----|
| SB        | L-2       | 171 |
| NB        | L-2 & 3   | 116 |
|           | TOTAL     | 287 |

| SHEET No.  | EACH |
|------------|------|
| L-2        | 28   |
| FROM SCQ-1 | 88   |
| TOTAL      | 116  |

## ROADWAY QUANTITIES

| LOCATION                          | ROADWAY EXCAVATION m <sup>3</sup> | EMBANKMENT (N) m <sup>3</sup> | AB (CFIPR) m <sup>3</sup> | CFIPR m <sup>2</sup> | PAVING ASPHALT (FOAMING ASPHALT) TONNE | RAC (TYPE G) TONNE | RAC (TYPE O) TONNE | IMPORTED BORROW m <sup>3</sup> | CLASS 2 AB m <sup>3</sup> | REPLACE AC SURFACING m <sup>3</sup> | AC TYPE A TONNE | PLACE AC (MISC AREA) m <sup>2</sup> |
|-----------------------------------|-----------------------------------|-------------------------------|---------------------------|----------------------|--|--------------------|--------------------|--------------------------------|---------------------------|-------------------------------------|-----------------|-------------------------------------|
| SB STA 0+10 - SLO STA 43+13       | 4,013                             | 8,403                         | 12,284                    | 169,717              | 2,443                                  | 24,518             | 10,149             | 4,190                          |                           |                                     |                 |                                     |
| SLO STA 1205+51 - SLO STA 1237+20 |                                   |                               |                           |                      |  | 4,435              |                    |                                |                           |                                     |                 |                                     |
| STREET INTERSECTIONS              | 76                                |                               |                           |                      |  | 73                 |                    |                                | 76                        |                                     | 36              |                                     |
| PAD FOR Conc BARRIER              |                                   |                               |                           |                      |  |                    |                    |                                |                           |                                     | 26              | 139                                 |
| SHEETS L-31 AND L-32              |                                   |                               |                           |                      |  |                    |                    |                                |                           | 103                                 |                 |                                     |
| FROM SHEET SCQ-1                  |                                   |                               |                           |                      |  |                    |                    |                                |                           |                                     | 152             |                                     |
| TOTAL                             | 4,089                             | 8,403                         | 12,284                    | 169,717              | 2,443                                  | 29,026             | 10,149             | 4,190                          | 76                        | 103                                 | 214             | 139                                 |

CFIPR COLD FOAM IN PLACE RECYCLING  
(N) NOT A SEPARATE PAY ITEM FOR INFORMATION ONLY  
RAC RUBBERIZED ASPHALT CONCRETE

## COLD PLANE AC PAVEMENT \*

| LOCATION                  | LENGTH m | AVERAGE DEPTH (Z) mm | AREA m <sup>2</sup> |
|---------------------------|----------|----------------------|---------------------|
| SB STA 24+46 - 24+60*     | 14       | 29                   | 96                  |
| SB STA 49+47 - 49+92*     | 45       | 75                   | 301                 |
| SB STA 92+20 - 92+99*     | 79       | 165                  | 528                 |
| SB STA 105+24 - 105+44*   | 20       | 7                    | 131                 |
| SB STA 108+93 - 109+37*   | 44       | 65                   | 294                 |
| SB STA 116+26 - 116+44*   | 18       | 49                   | 118                 |
| SB STA 130+22 - 130+34*   | 12       | 7                    | 80                  |
| SLO STA 26+38 - 26+41*    | 3        | 7                    | 22                  |
| SLO STA 33+58 - 33+95*    | 37       | 26                   | 249                 |
| SLO STA 37+43 - 38+04*    | 61       | 150                  | 415                 |
| SLO STA 39+98 - 40+89*    | 91       | 170                  | 606                 |
| SLO STA 1205+51 - 1237+20 | 3,169    | 30                   | 30,768              |
| TOTAL                     |          |                      | 33,608              |

\* COLD PLANE IS IN ADDITION TO THE 225 mm ASSOCIATED WITH THE COLD FOAM PROCESS.

(Z) AVERAGE DEPTH GIVEN FOR ESTIMATE PURPOSES ONLY

## METAL BEAM GUARD RAILING

| LOCATION                | L+/R+ | FLARE TYPE LAYOUT | REMOVE MBGR | MBGR (STEEL POST) | TERMINAL SYSTEM (TYPE SRT) | EA  |
|-------------------------|-------|-------------------|-------------|-------------------|----------------------------|-----|
|                         |       |                   |             |                   |                            | (m) |
| SB STA 29+60 TO 29+81   | R+    | 1A                | 22          | 8                 | 1                          |     |
| SB STA 29+66 TO 29+86   | L+    | 1A                | 22          | 8                 | 1                          |     |
| SB STA 30+18 TO 30+38   | R+    | 1A                | 22          | 8                 | 1                          |     |
| SB STA 30+24 TO 30+44   | L+    | 1A                | 22          | 8                 | 1                          |     |
| SB STA 113+40 TO 113+61 | L+/R+ | 1A                | 44          | 16                | 2                          |     |
| SB STA 113+73 TO 113+94 | L+/R+ | 1A                | 44          | 16                | 2                          |     |
| TOTAL                   |       |                   | 176         | 64                | 8                          |     |

## IMPORTED MATERIAL (SHOULDER BACKING)

|                           | LENGTH (m) | TONNE |
|---------------------------|------------|-------|
| SLO STA 1205+51 - 1237+20 | 3,205      | 134   |
| STREET INTERSECTIONS      | 79         | 7     |
| TOTAL                     | 3,284      | 141   |

## CHANNELIZER SURFACE MOUNTED

| SHEET No.  | EACH | LEFT IN PLACE EACH |
|------------|------|--------------------|
| L-1, 2 & 3 | 121  | 121                |
| FROM SCQ-1 | 224  |                    |
| TOTAL      | 345  | 121                |

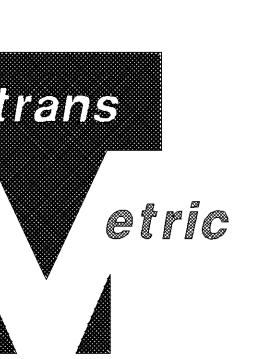
## TEMPORARY CONCRETE WASHOUT FACILITY

| LOCATION                     | EA |
|------------------------------|----|
| SB STA 1+25 TO SLO STA 35+75 | 6  |

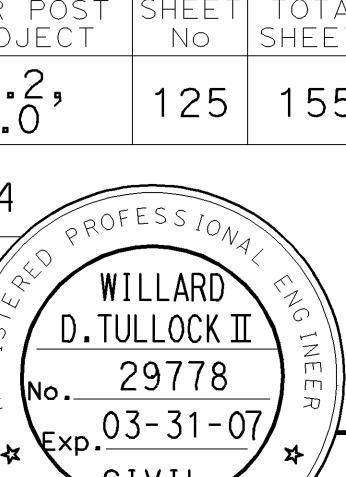
(N) NOT A SEPARATE PAY ITEM FOR INFORMATION ONLY

|  |           |
|--|-----------|
| AS BUILT<br>(NO CORRECTIONS ON THIS SHEET) |           |
| CONTRACT No.                               | 05-0A4004 |
| C.C.A. DATE                                | 08-30-06  |
| R.E. NAME                                  | M.Lew     |

## SUMMARY OF QUANTITIES Q-1



|  |        |       |                      |          |              |
|--|--------|-------|----------------------|----------|--------------|
| DIST   | COUNTY | ROUTE | KILOMETER POST       | SHEET NO | TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0 | 125      | 155          |
| 10-18-04<br>REGISTERED CIVIL ENGINEER<br>11-29-04<br>PLANS APPROVAL DATE   |        |       |                      |          |              |
| The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet. |        |       |                      |          |              |
| Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov  |        |       |                      |          |              |



## ABANDON CULVERT

| LOCATION (X)  | SAND BACKFILL m <sup>3</sup> | ABANDON CULVERTS m |
|---------------|------------------------------|--------------------|
| SB STA 49+72  | 2.6                          | 9                  |
| SB STA 58+10  | 2.6                          | 9                  |
| SB STA 81+80  | 2.6                          | 9                  |
| SB STA 92+60  | 2.6                          | 9                  |
| SB STA 117+45 | 2.6                          | 9                  |
| TOTAL         | 13.0                         | 45                 |

(X) APPROXIMATE LOCATION

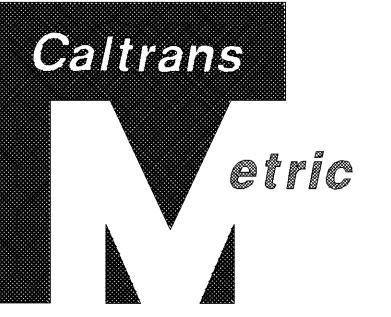
## REMOVE TREE (N)

| LOCATION        | EA |
|-----------------|----|
| SB STA 37+80 R+ | 1  |
| SB STA 38+40 R+ | 1  |
| SB STA 38+55 R+ | 1  |
| SB STA 38+90 R+ | 1  |
| TOTAL           | 4  |

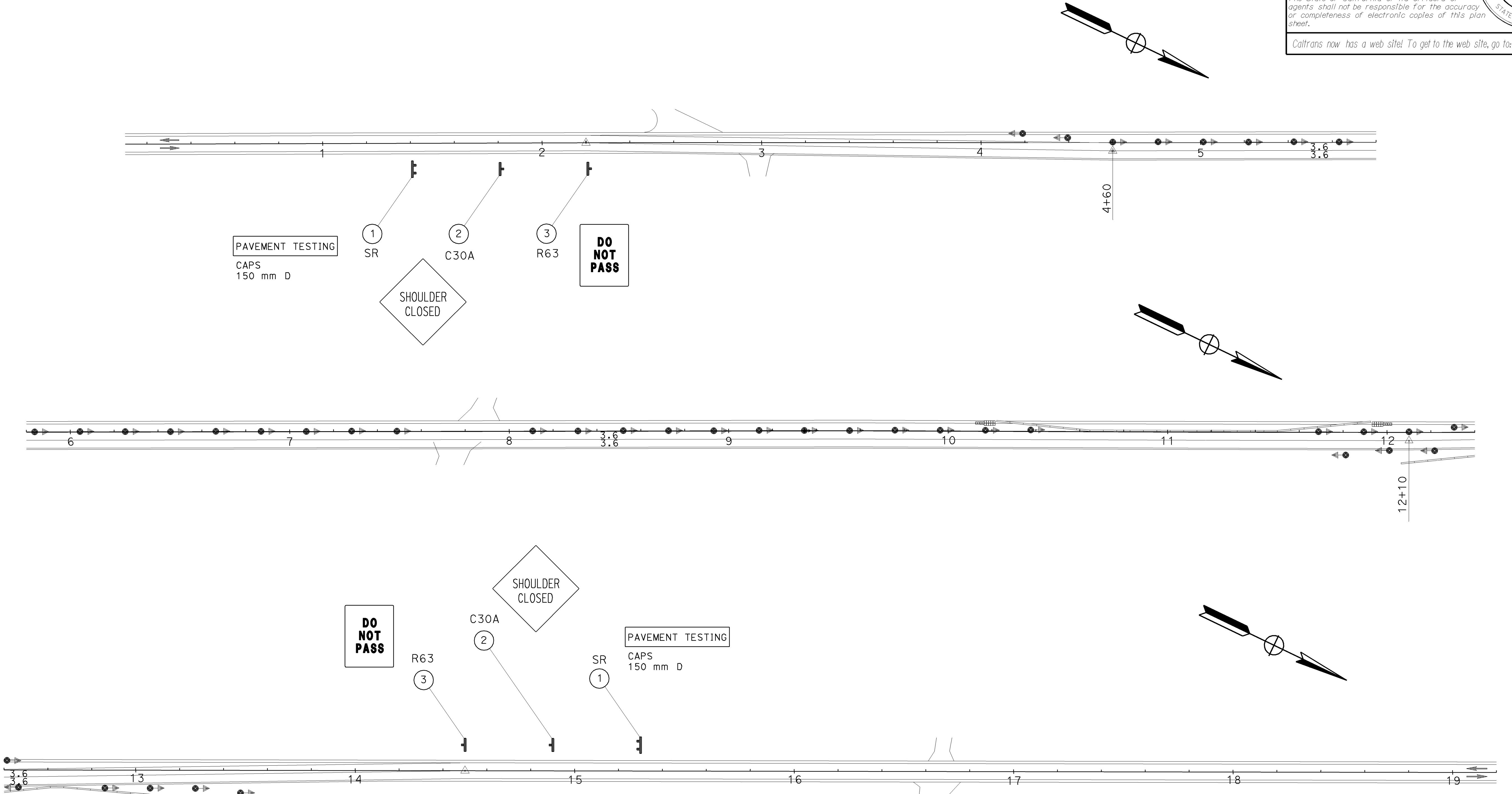
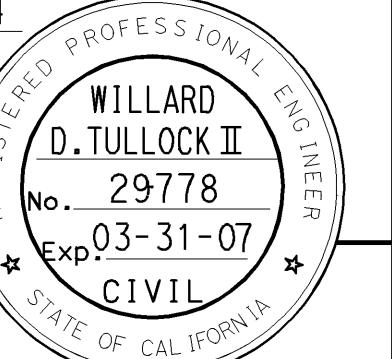
(N) NOT A SEPARATE PAY ITEM FOR INFORMATION ONLY

| LOCATION | Side | EROSION CONTROL (TYPE D) m<sup>2</sup> | EROSION CONTROL (BLANKET) m<sup>2</sup> | MOVE-IN/MOVE-OUT EA | STRAW (EROSION |
| --- | --- | --- | --- | --- | --- |

NOTE: SIGN LOCATIONS SHOWN ARE APPROXIMATE, EXACT,  
LOCATIONS AND HEIGHT TO BE DETERMINED BY THE ENGINEER.



|  |        |       |                                 |                           |                 |
|--|--------|-------|---------------------------------|---------------------------|-----------------|
| DIST   | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET<br>NO               | TOTAL<br>SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 126                       | 155             |
|  |        |       | 10-18-04                        | REGISTERED CIVIL ENGINEER |                 |
|  |        |       | 11-29-04                        | PLANS APPROVAL DATE       |                 |
| The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet. |        |       |                                 |                           |                 |
| Caltrans now has a web site! To get to the web site, go to: <a href="http://www.dot.ca.gov">http://www.dot.ca.gov</a>                                |        |       |                                 |                           |                 |



**AS BUILT**  
(NO CORRECTIONS ON THIS SHEET)  
CONTRACT NO. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN

## SIGN PLAN

SCALE: 1:1000

**S-1**

THIS PLAN ACCURATE FOR SIGNING WORK ONLY.

NOTES: (FOR SHEETS E-1 TO E-9)

- 1 120/240 V, 1 Ø, 3-WIRE, TYPE A SERVICE ON 12.2 m WOOD POLE  
(SEE DETAIL A1 OR A2 AS REQUIRED ON SHEET E-9)  
WITH THE FOLLOWING CIRCUIT BREAKERS:

| AMPERES | VOLTS      | POLES | LOAD                   | METER | PHOTOELECTRIC CONTROL TYPE |
|---------|------------|-------|------------------------|-------|----------------------------|
| 100     | 240        | 2     | MAIN BREAKER           | YES   | —                          |
| 60 30   | 120        | 1     | TRAFFIC SIGNAL         | YES   | —                          |
| 15      | 120        | 1     | FLASHING BEACON(SOUTH) | YES   | —                          |
| 15      | 120        | 1     | FLASHING BEACON(NORTH) | YES   | —                          |
| 40 30   | 240<br>120 | 21    | LIGHTING               | YES   | V                          |

- 2 INSTALL STATE-FURNISHED MODEL 170 CONTROLLER ASSEMBLY WITH MODEL 332 CABINET (SEE DETAIL B ON SHEET E-9).

- 3 INSTALL 12.2 m WOOD POLE WITH SIGNAL AND LIGHTING EQUIPMENT.  
SEE DETAIL D ON SHEET E-9. LUMINAIRE SHALL BE 200 W HPS, 240 VOLT.
- 4 INSTALL 5.5 m WOOD POLE WITH FLASHING BEACONS, FBCA, INCANDESCENT SIGN LIGHTING AND W41 SIGN (SEE DETAIL C ON SHEET E-9).
- 5 MINIMUM HEIGHT OF THE WOOD POLE SHALL BE 9.1 m UNLESS OTHERWISE SHOWN.  
(SEE STAGE CONSTRUCTION AND TRAFFIC HANDLING PLANS)
- 6 INSTALL INCANDESCENT LIGHTING ON SIGN POST WITH 'STOP HERE ON RED' SIGN.  
(SEE STAGE CONSTRUCTION AND TRAFFIC HANDLING PLANS)
7. CONTACT PG&E FOR SERVICE CONNECTION AT 661-398-5711
8. LOCATIONS ARE APPROXIMATE ONLY, EXACT LOCATIONS WILL BE DETERMINED BY ENGINEER.
9. TEMPORARY SIGNAL SYSTEM TO REMAIN THROUGH STAGE CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

10. DEPTH OF CONDUIT SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.

11. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.

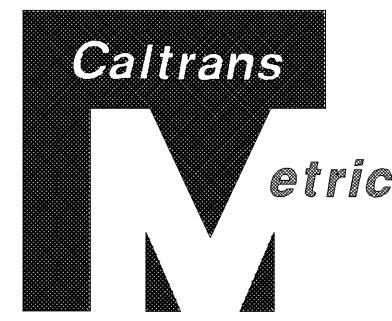
12. All Signal Sections Shall Be 12" LED

13. Flashing Beacons To Be Terminated By Caltrans In The 332 Cabinet

CCO \* 5

#### LEGEND:

 Exist UTILITY CABINET



|      |        |       |                                 |          |              |
|------|--------|-------|---------------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
| 05   | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 129      | 155          |

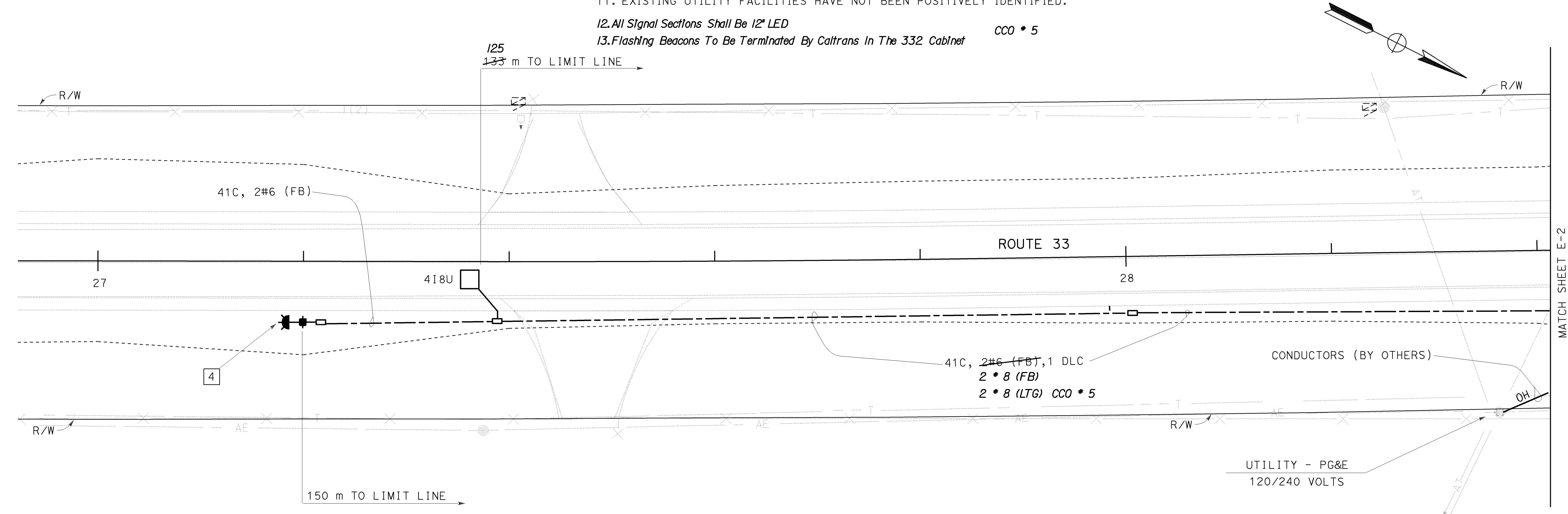
Ihab R. Elzaanoun 01-26-04  
REGISTERED ELECTRICAL ENGINEER

11-29-04  
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENG.  
IHAB R.  
ELZAANOUN  
17106  
No. 17106  
Exp. 9-30-05  
ELECTRICAL  
STATE OF CALIFORNIA



#### ABBREVIATIONS:

PG&E PACIFIC GAS AND ELECTRIC

| AS BUILT     |           |             |          |
|--------------|-----------|-------------|----------|
| CONTRACT No. | 05-0A4004 | C.C.A. DATE | 08-30-06 |
| R.E. NAME    | M.Lew     |             |          |

## (TEMPORARY) SIGNAL SYSTEM (LOCATION 1) (ROUTE 33/ QUATAL BRIDGE)

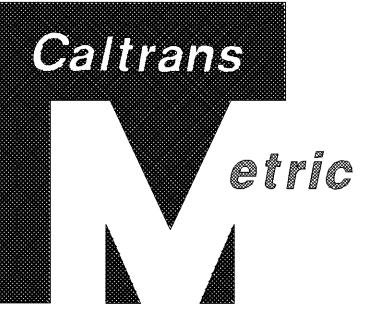
E-1

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

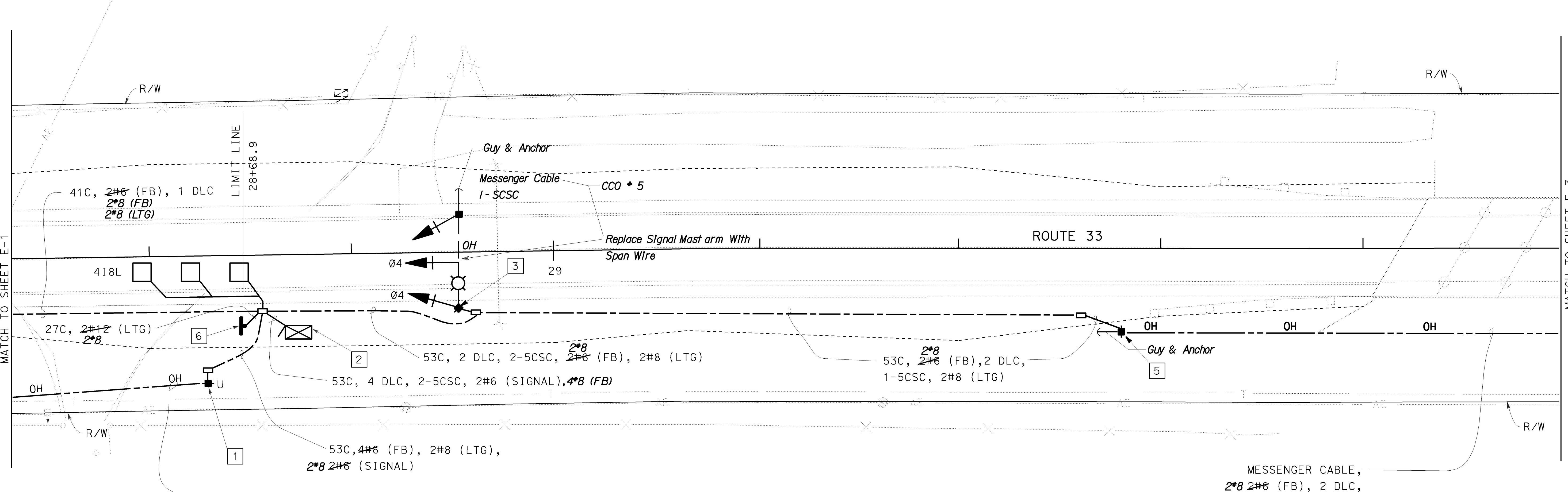
ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN.

SCALE 1:200

NOTES: (SEE SHEET E-1)



|   |        |       |  |          |              |
|---|--------|-------|--|----------|--------------|
| DIST  | COUNTY | ROUTE | KILOMETER POST<br>TOTAL PROJECT  | SHEET NO | TOTAL SHEETS |
| 05  | SB,SLO | 33    | 0.0/13.2,<br>0.0/8.0   | 130      | 155          |
| Ihab R. Elzaanoun 01-26-04<br>REGISTERED ELECTRICAL ENGINEER  |        |       | IHAB R.<br>ELZANOUN<br>No. 17106<br>Exp. 9-30-05<br>ELECTRICAL<br>STATE OF CALIFORNIA  |          |              |
| 11-29-04<br>PLANS APPROVAL DATE   |        |       | The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet. |          |              |
| Caltrans now has a web site! To get to the web site, go to: <a href="http://www.dot.ca.gov">http://www.dot.ca.gov</a> |        |       |  |          |              |



PHASE DIAGRAM  
STEADY DEMAND SEQUENCE

AS BUILT  
CONTRACT No. 05-OA4004  
C.C.A. DATE 08-30-06  
R.E. NAME M.Lew

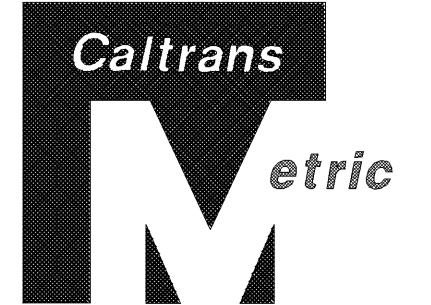
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN.

SCALE 1:200

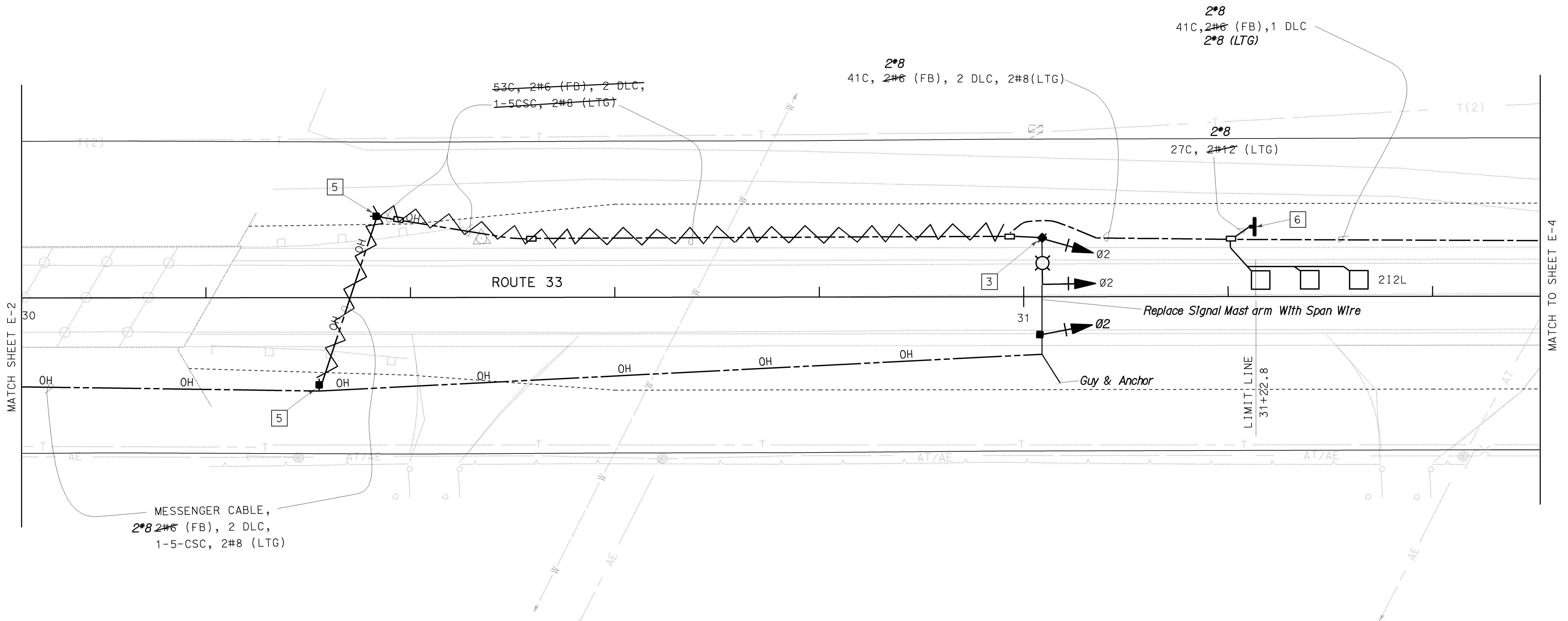
E-2

NOTES: (SEE SHEET E-1)



|  |         |       |                                 |          |              |
|--|---------|-------|---------------------------------|----------|--------------|
| DIST   | COUNTY  | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
| 05   | SB, SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 131      | 155          |
| Ihab R. Elzaanoun 01-26-04<br>REGISTERED ELECTRICAL ENGINEER   |         |       |                                 |          |              |
| 11-29-04 PLANS APPROVAL DATE   |         |       |                                 |          |              |
| The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet. |         |       |                                 |          |              |
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All Changes On This Sheet Are Under CCO # 5



|                 |           |  |
|-----------------|-----------|--|
| <b>AS BUILT</b> |           |  |
| CONTRACT NO.    | 05-0A4004 |  |
| C.C.A. DATE     | 08-30-06  |  |
| R.E. NAME       | M.LGW     |  |

## TEMPORARY SIGNAL SYSTEM (LOCATION 1) (ROUTE 33/QUATAL BRIDGE)

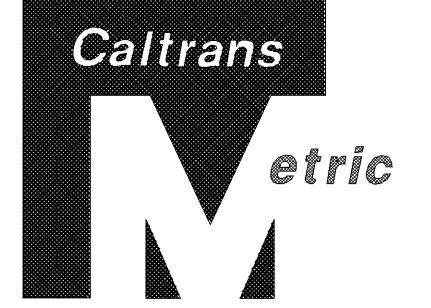
E-3

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

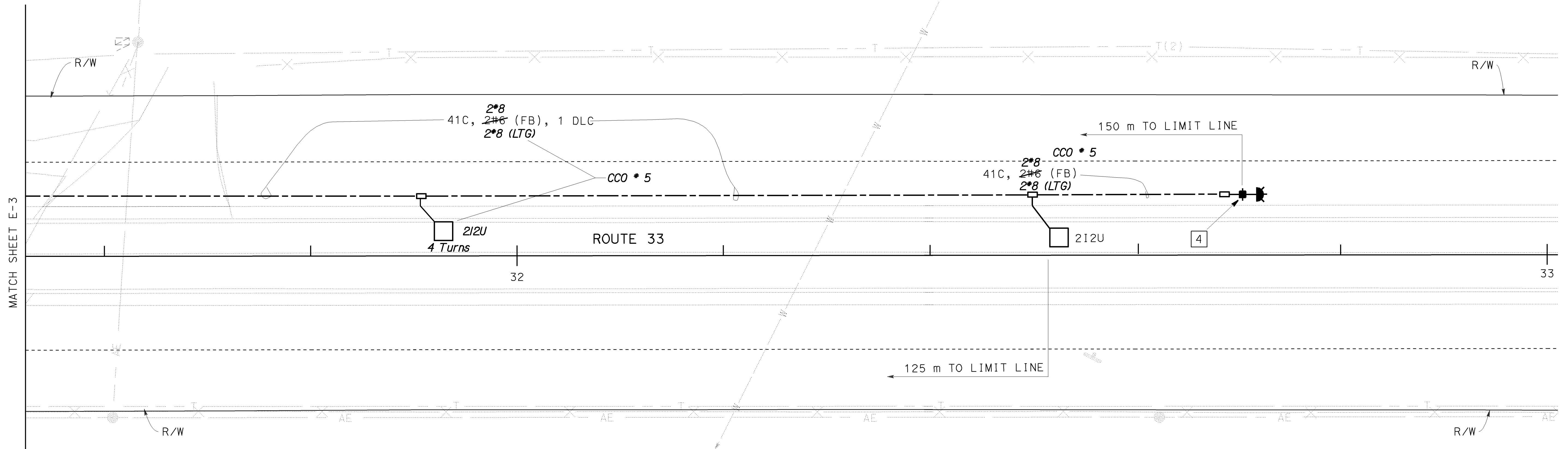
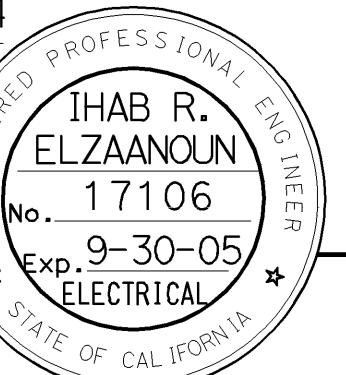
ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN.

SCALE 1:200

NOTES: (SEE SHEET E-1)



|      |         |       |  |             |                 |
|------|---------|-------|--|-------------|-----------------|
| DIST | COUNTY  | ROUTE | KILOMETER POST<br>TOTAL PROJECT  | SHEET<br>NO | TOTAL<br>SHEETS |
| 05   | SB, SLO | 33    | 0.0/13.2,<br>0.0/8.0   | 132         | 155             |
|      |         |       | Ihab R. Elzaanoun 01-26-04<br>REGISTERED ELECTRICAL ENGINEER   |             |                 |
|      |         |       | 11-29-04<br>PLANS APPROVAL DATE  |             |                 |
|      |         |       | The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet. |             |                 |
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|                 |           |             |          |
|-----------------|-----------|-------------|----------|
| <b>AS BUILT</b> |           |             |          |
| CONTRACT No.    | 05-0A4004 | C.C.A. DATE | 08-30-06 |
| R.E. NAME       | M.Lew     |             |          |

## TEMPORARY SIGNAL SYSTEM (LOCATION 1) (ROUTE 33/ QUATAL BRIDGE)

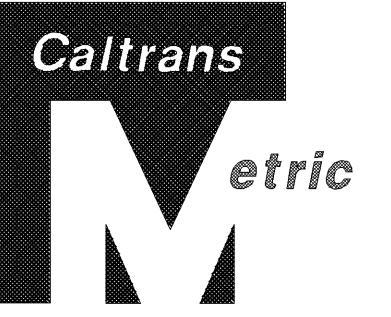
E-4

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN.

SCALE 1:200

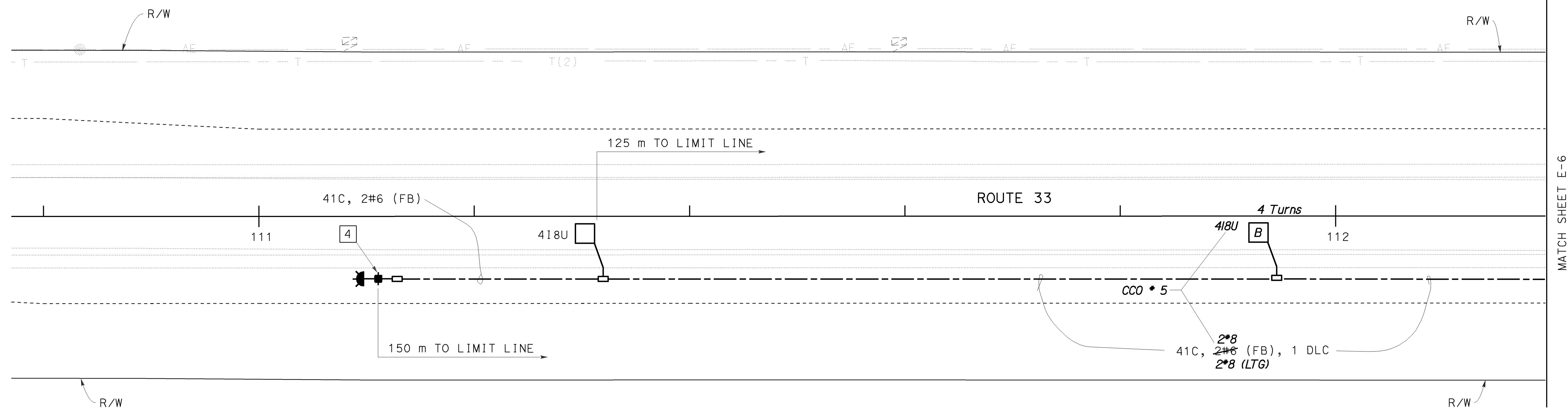
NOTES: (SEE SHEET E-1)



The logo consists of the word "Caltrans" in a bold, italicized serif font above the word "Metric" in a bold, italicized sans-serif font. The letters are white on a black background.

| IST   | COUNTY  | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET<br>No | TOTAL<br>SHEETS |
|---|---------|-------|---------------------------------|-------------|-----------------|
| 05  | SB, SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 133         | 155             |
| <p><u>Ihab R. Elzaanoun</u> 01-26-04</p> <p>REGISTERED ELECTRICAL ENGINEER</p> <p>11-29-04</p> <p>PLANS APPROVAL DATE</p> <p>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</p> <p>altrans now has a web site! To get to the web site, go to: <a href="http://www.dot.ca.gov">http://www.dot.ca.gov</a></p> <p>REGISTERED PROFESSIONAL ELECTRICAL ENGINEER</p> <p>IHAB R.<br/>ELZAANOUN<br/>No. 17106<br/>Exp. 9-30-05<br/>ELECTRICAL<br/>STATE OF CALIFORNIA</p> |         |       |                                 |             |                 |

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**AS BUILT**  
CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M.Lew

# **TEMPORARY SIGNAL SYSTEM (LOCATION 2) (ROUTE 33/BALLINGER BRIDGE)**

E - 5

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN.

CALE 1:200

FOR REDUCED PLANS ORIGINAL  
SCALE IS IN MILLIMETERS

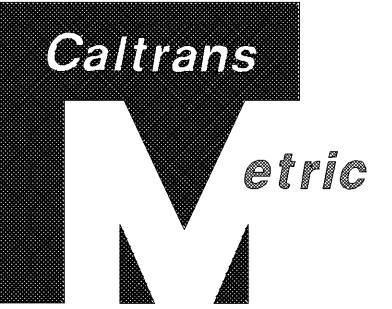
A horizontal number line starting at 0 and ending at 60. Major tick marks are labeled with the values 0, 20, 40, and 60. Between each labeled value, there are four unlabeled tick marks, dividing the distance into five equal segments.

USERNAME => jscardin  
DGN FILE => 50g400u05.dan

U 06391

EA OA4001

NOTES: (SEE SHEET E-1)



www.estrus.com

Metric

The figure consists of three side-by-side grayscale images. The first image shows a small triangular region in the center of a larger square frame, filled with a dense pattern of black dots. The second image shows the same triangular region, but it has grown significantly larger, filling most of the central area. The third image shows the triangular region at its maximum size, nearly covering the entire frame. All three images have a white border.

| DIST   | COUNTY  | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET<br>No | TOTAL<br>SHEETS |
|--|---------|-------|---------------------------------|-------------|-----------------|
| 05   | SB, SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 134         | 155             |
| <p><u>Ihab R. Elzaanoun</u> 01-26-04</p> <p>REGISTERED ELECTRICAL ENGINEER</p> <p>11-29-04</p> <p>PLANS APPROVAL DATE</p> <p>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</p> <p>Caltrans now has a web site! To get to the web site, go to: <a href="http://www.dot.ca.gov">http://www.dot.ca.gov</a></p> |         |       |                                 |             |                 |

*Caltrans now has a web site! To get to the web site, go to: <http://www.dot.ca.gov>*

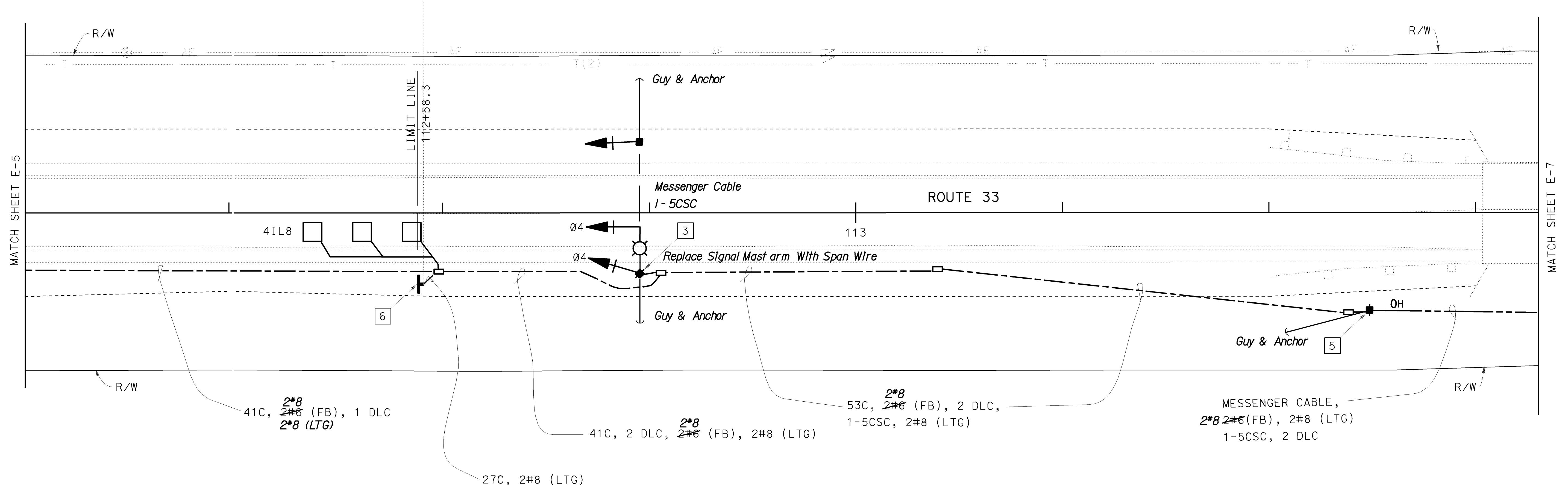
**ANSWER** The answer is 1000. The area of the rectangle is 1000 square centimeters.

$$\emptyset 2 \quad \xleftarrow{\hspace{1cm}} \qquad \qquad \xrightarrow{\hspace{1cm}} \emptyset 4$$

# PHASE DIAGRAM

## STEADY DEMAND SEQUENCE

*All Changes On This Sheet Are Made Under CCO # 5*



**AS BUILT**  
CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Lew

# **TEMPORARY SIGNAL SYSTEM (LOCATION 2) (ROUTE 33/BALLINGER BRIDGE)**

E - 6

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN.

SCALE 1:200

FOR REDUCED PLANS ORIGINAL  
SCALE IS IN MILLIMETERS

A horizontal number line starting at 0 and ending at 60. There are tick marks at intervals of 10, labeled 0, 20, 40, and 60.

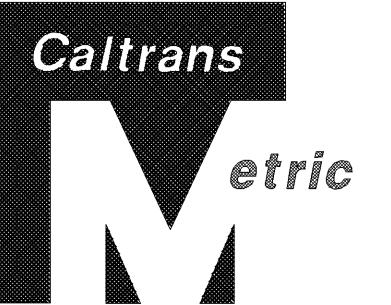
USERNAME => jscardin  
DGN FILE => 50a400uq06.dgn

CU 06391

EA OA4001

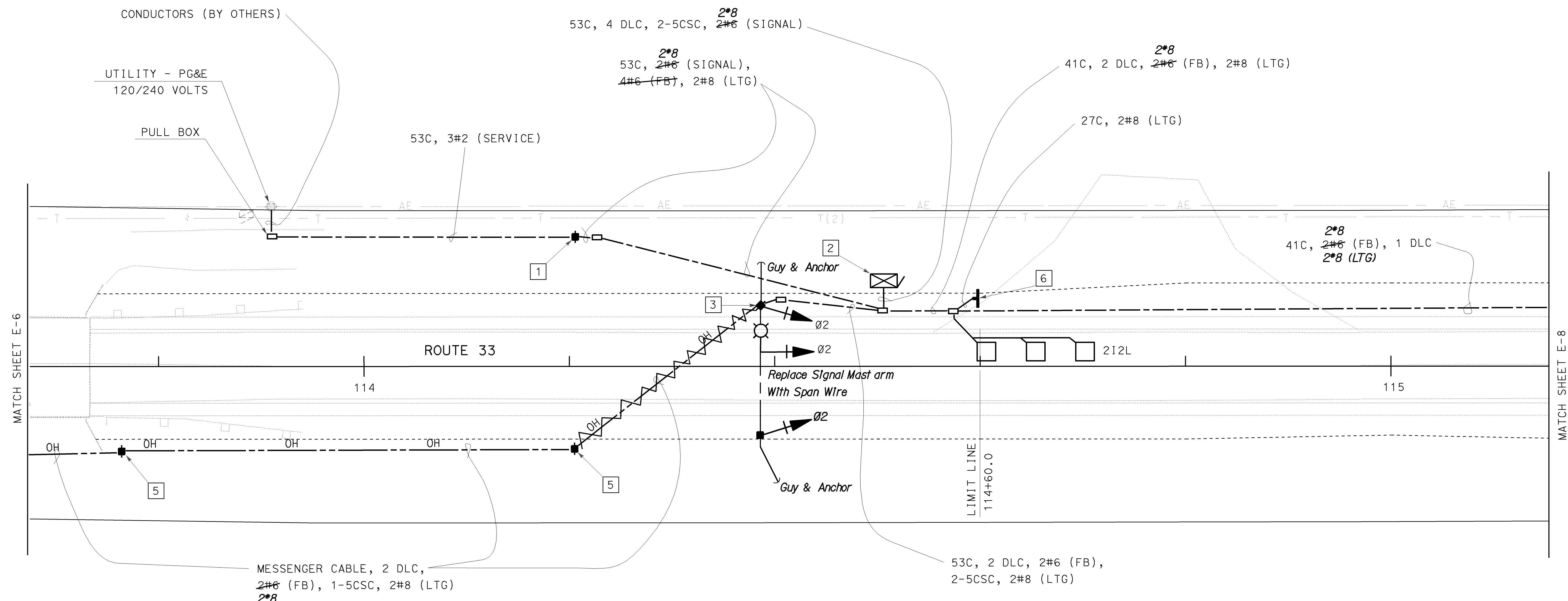
|  |                            |  |  |                               |   |
|--|----------------------------|--|--|-------------------------------|---|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | Caltrans ELECTRICAL DESIGN |  | PROJECT ENGINEER<br>CALCULATED/<br>DESIGNED BY<br>CHECKED BY | XAVIER ALFARO<br>DERRAN REITZ | DATE REVISED BY<br>9/03<br>DATE REVISED<br>9/03 |
|  |                            |  |  |                               |   |

NOTES: (SEE SHEET E-1)



|  |         |       |   |             |                 |
|--|---------|-------|---|-------------|-----------------|
| DIST   | COUNTY  | ROUTE | KILOMETER POST<br>TOTAL PROJECT   | SHEET<br>NO | TOTAL<br>SHEETS |
| 05   | SB, SLO | 33    | 0.0/13.2,<br>0.0/8.0  | 135         | 155             |
| Ihab R. Elzaanoun 01-26-04<br>REGISTERED ELECTRICAL ENGINEER   |         |       | IHAB R.<br>ELZAANOUN<br>17106<br>No. 17106<br>Exp. 9-30-05<br>ELECTRICAL<br>STATE OF CALIFORNIA |             |                 |
| 11-29-04<br>PLANS APPROVAL DATE  |         |       |   |             |                 |
| The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet. |         |       |   |             |                 |
| Caltrans now has a web site! To get to the web site, go to: <a href="http://www.dot.ca.gov">http://www.dot.ca.gov</a>                                |         |       |   |             |                 |

All Changes On This Sheet Are Made Under CCO # 5



AS BUILT  
CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M.Lew

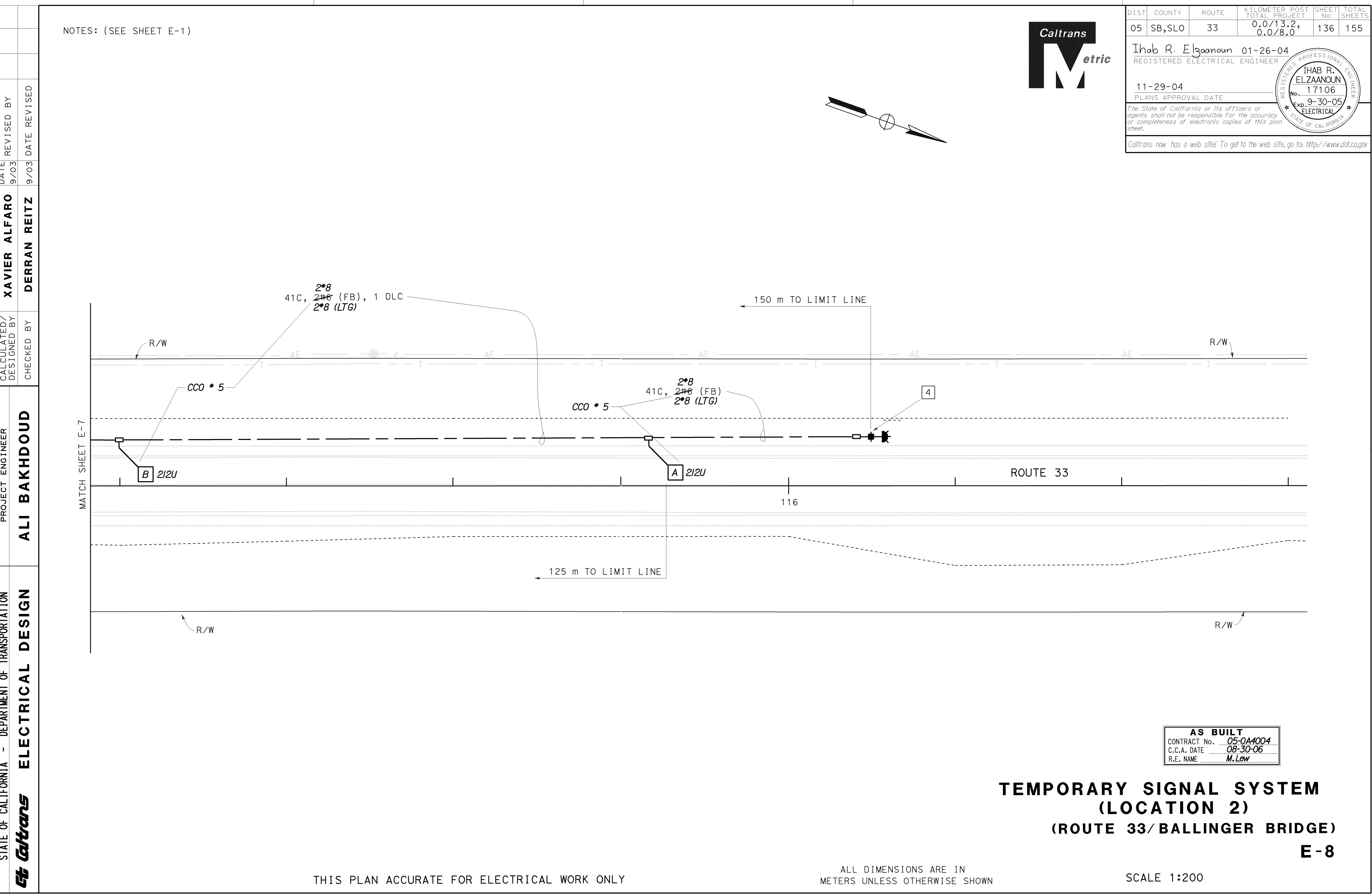
## TEMPORARY SIGNAL SYSTEM (LOCATION 2) (ROUTE 33/BALLINGER BRIDGE)

E-7

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN.

SCALE 1:200



CALCULATED/  
DESIGNED BY  
CHECKED BY

PROJECT ENGINEER

XAVIER ALFARO

DATE REVISED BY

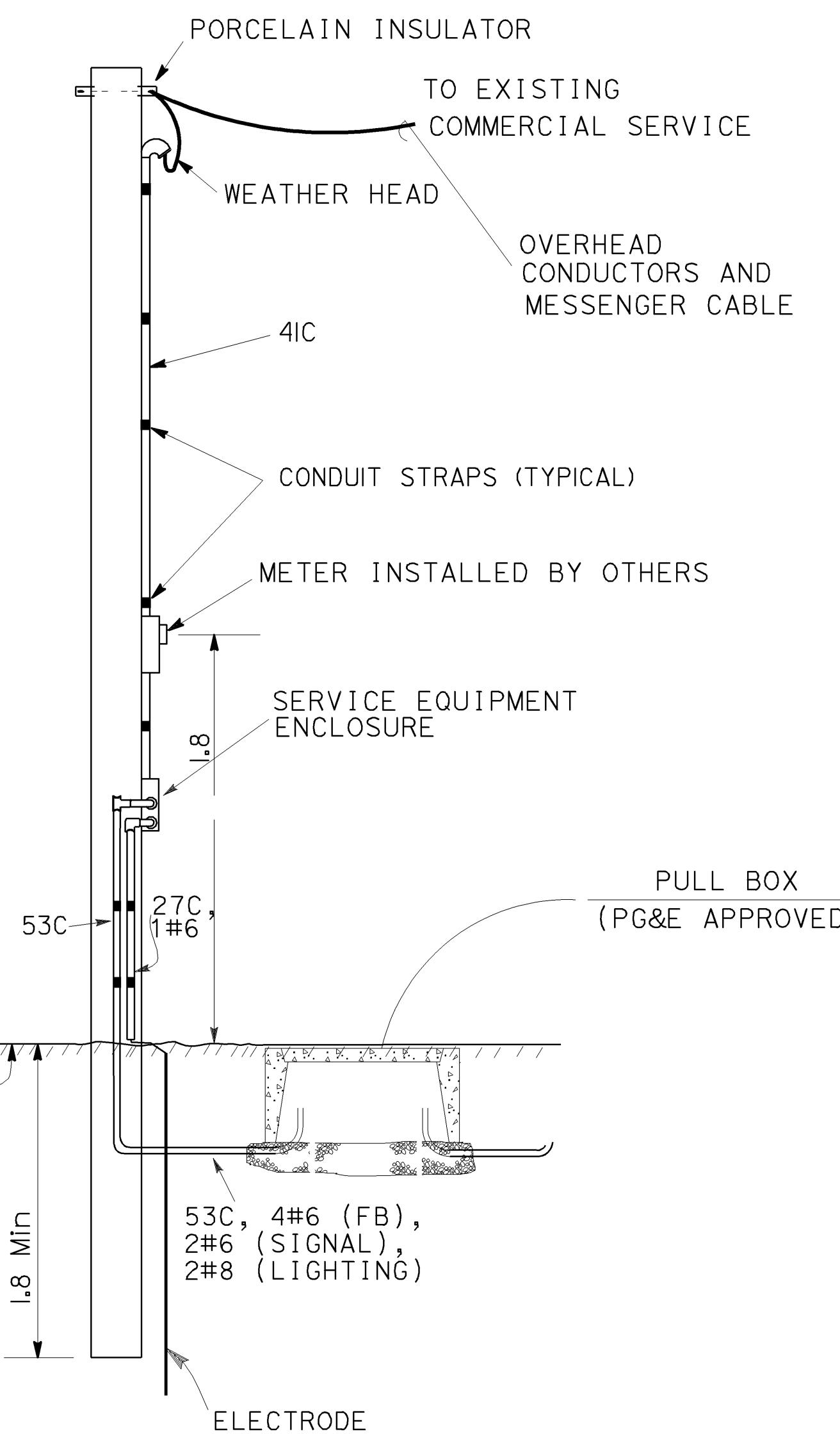
9/03

REvised BY

DERRAN REITZ

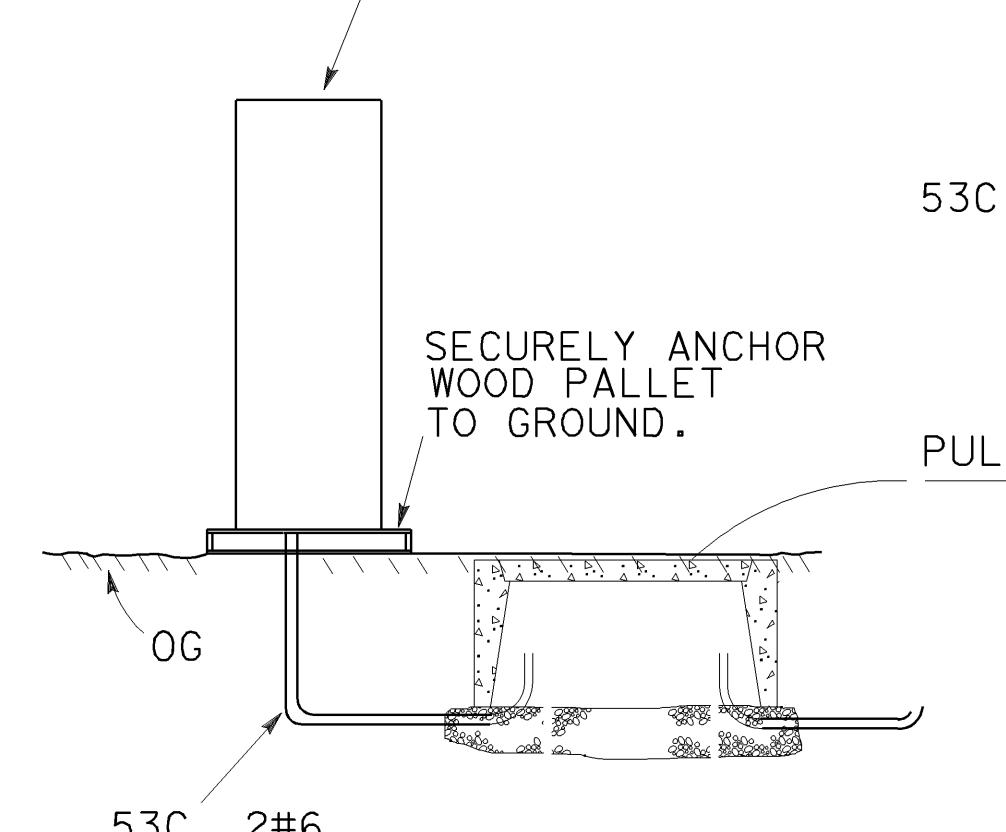
DATE REVISED

9/03



**TEMPORARY SERVICE  
INSTALLATION  
OF 12.2 m WOOD POLE  
DETAIL A1**

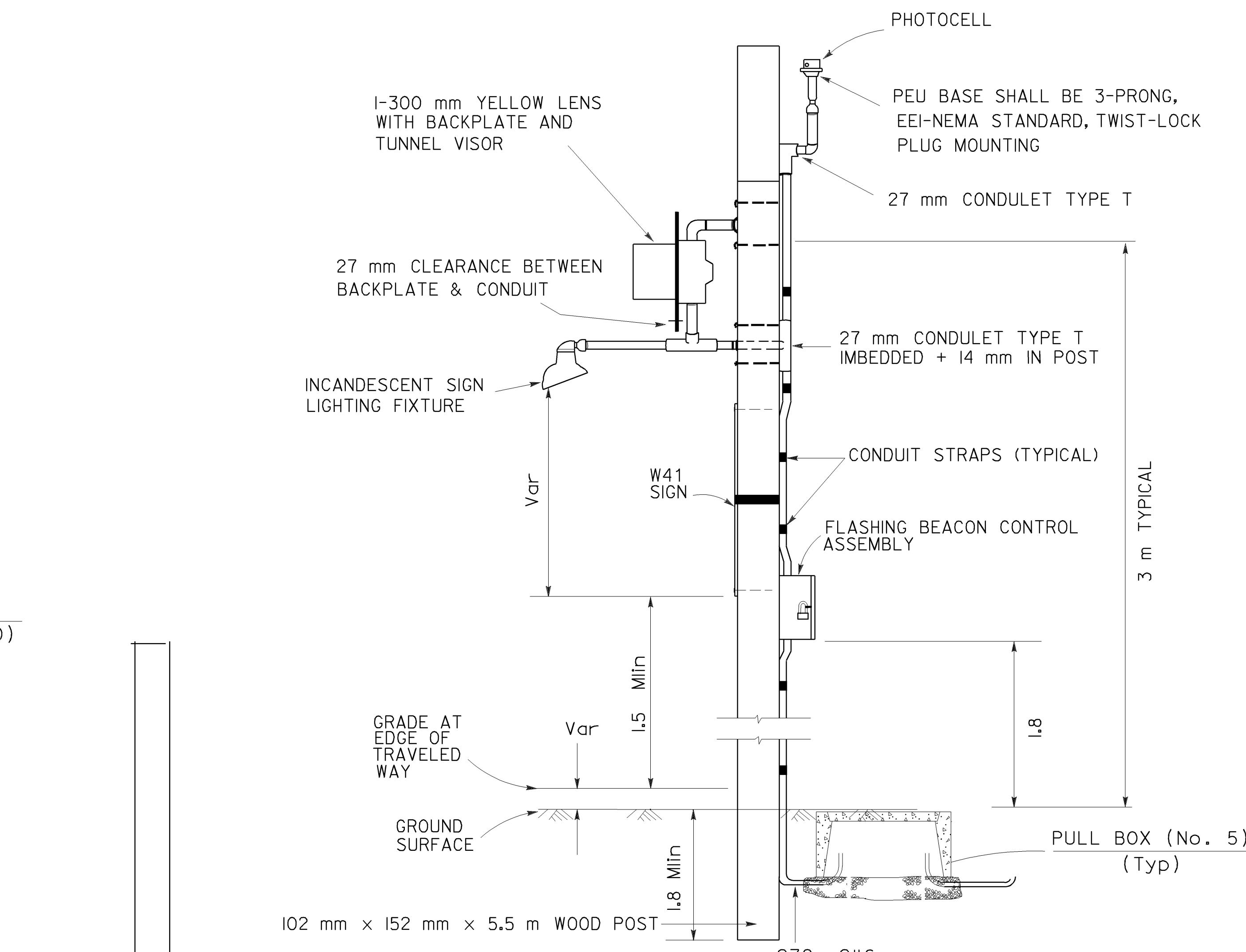
STATE-FURNISHED MODEL  
170 CONTROLLER ASSEMBLY  
WITH MODEL 332 CABINET  
BOLT TO WOOD PALLET.



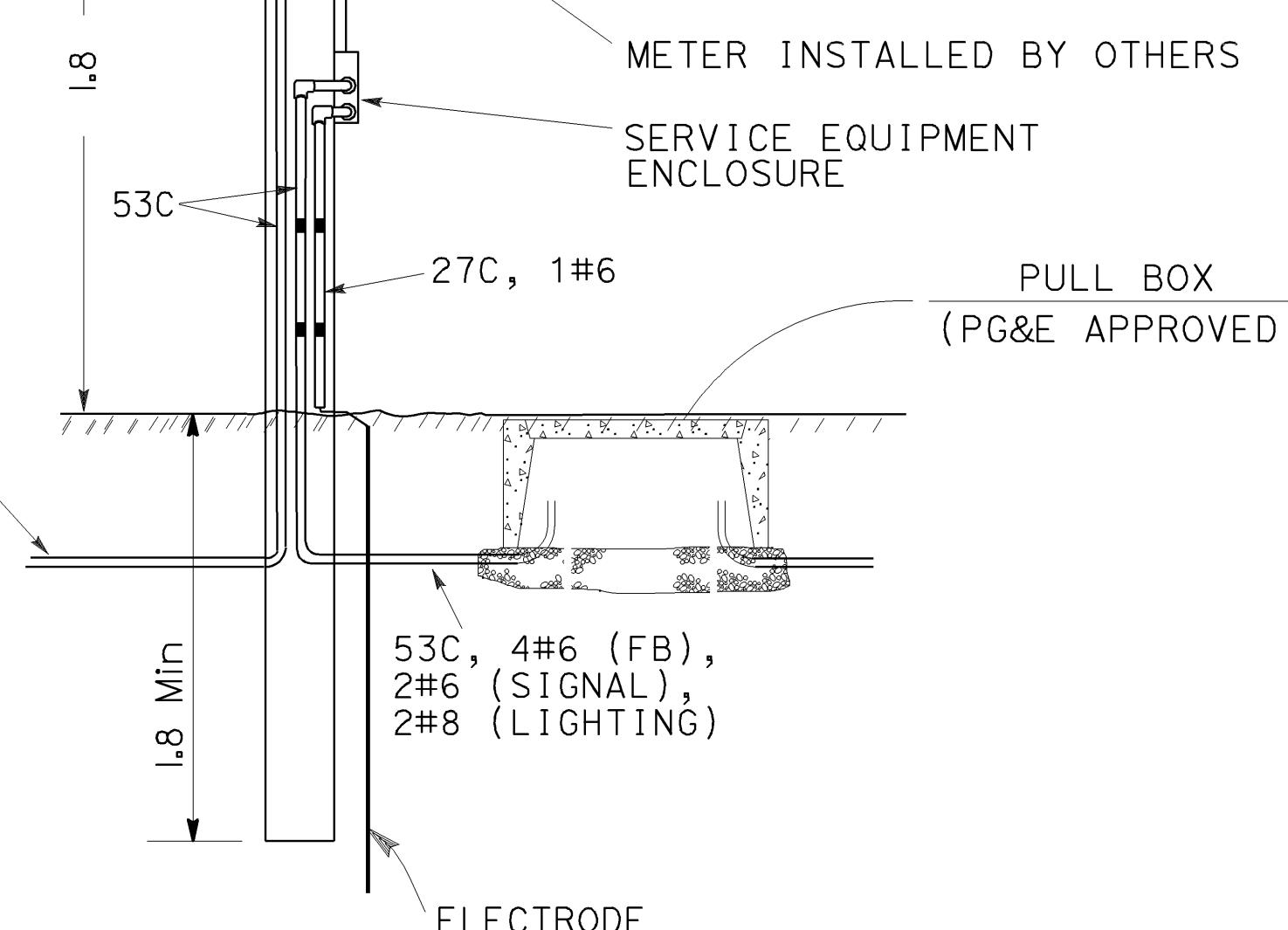
**CONTROLLER INSTALLATION  
DETAIL B**

**TEMPORARY SERVICE  
INSTALLATION OF 12.2 m WOOD POLE  
DETAIL A2**

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY



**TEMPORARY FLASHING BEACON  
INSTALLATION ON 5.5 m WOOD POLE  
DETAIL C**



**TEMPORARY SIGNAL AND LIGHTING  
INSTALLATION ON 12.2 m WOOD POLE  
DETAIL D**

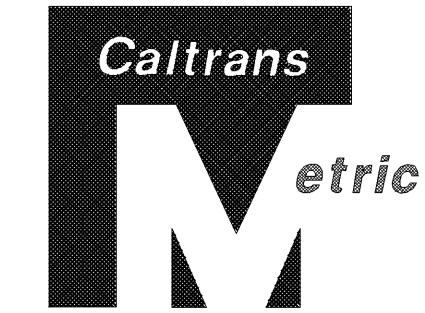
**AS BUILT**  
CONTRACT No. 05-0A4004  
C.C.A. DATE 08-30-06  
R.E. NAME M. Low

**TEMPORARY SIGNAL SYSTEM (DETAILS)  
(LOCATIONS 1 AND 2)  
(ROUTE 33 - QUATAL/BALLINGER BRIDGES)**

**E-9**

ALL DIMENSIONS ARE IN  
METERS UNLESS OTHERWISE SHOWN.

NO SCALE

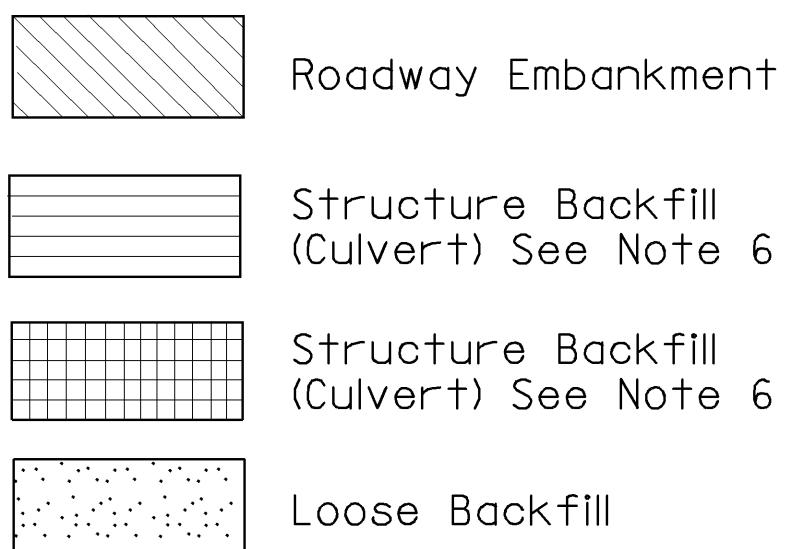
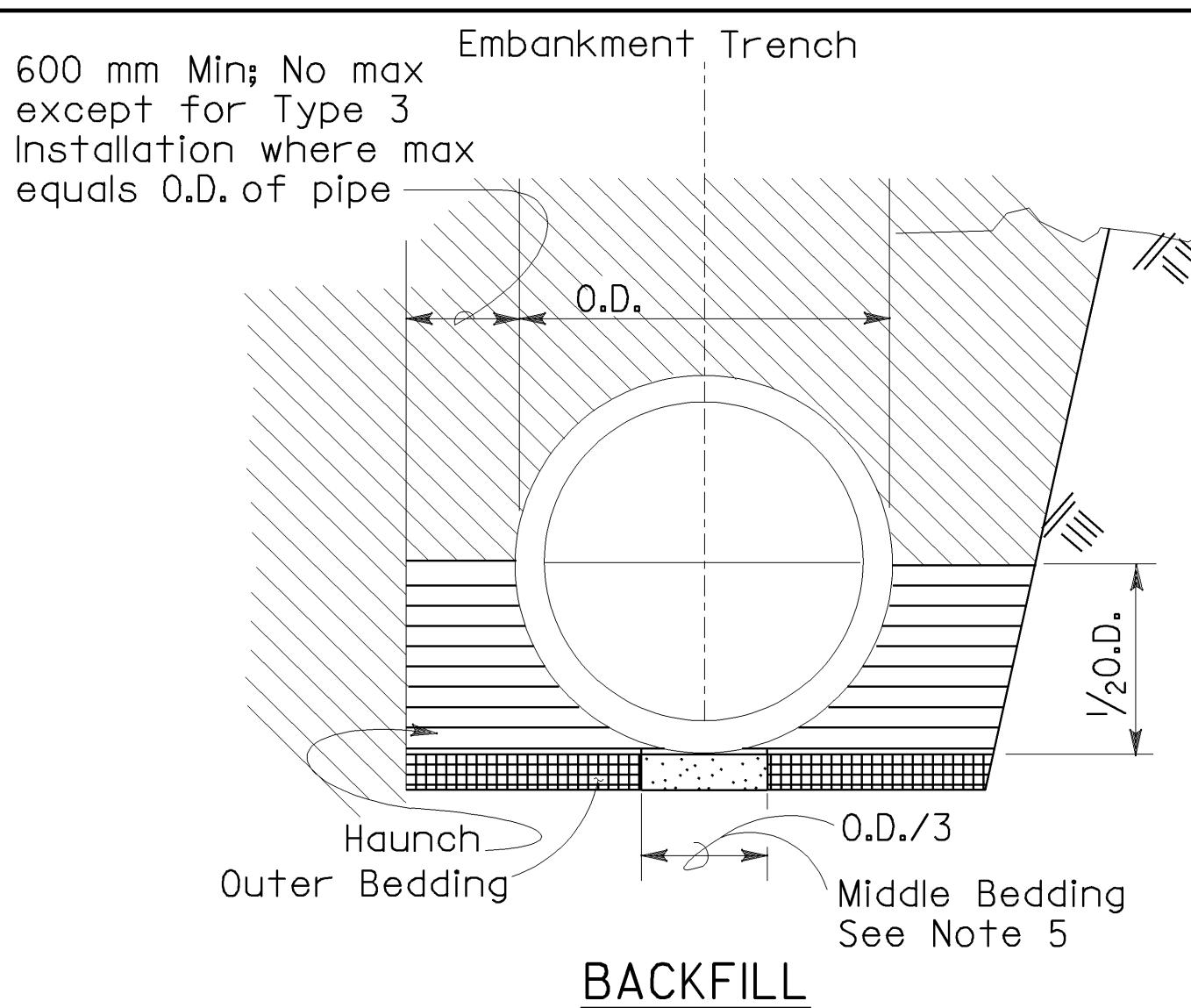


| DIST              | COUNTY   | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
|-------------------|----------|-------|---------------------------------|----------|--------------|
| 05                | SB,SLO   | 33    | 0.0/13.2,<br>0.0/8.0            | 137      | 155          |
| Ihab R. Elzaanoun | 01-26-04 |       |                                 |          |              |

REGISTERED ELECTRICAL ENGINEER  
IHAB R.  
ELZAANOUN  
No. 17106  
Exp. 9-30-05  
RE-REGISTERED PROFESSIONAL ENG.  
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

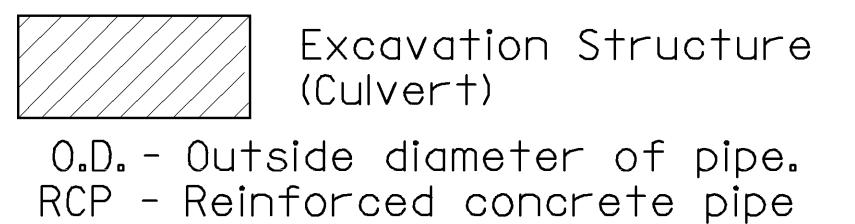
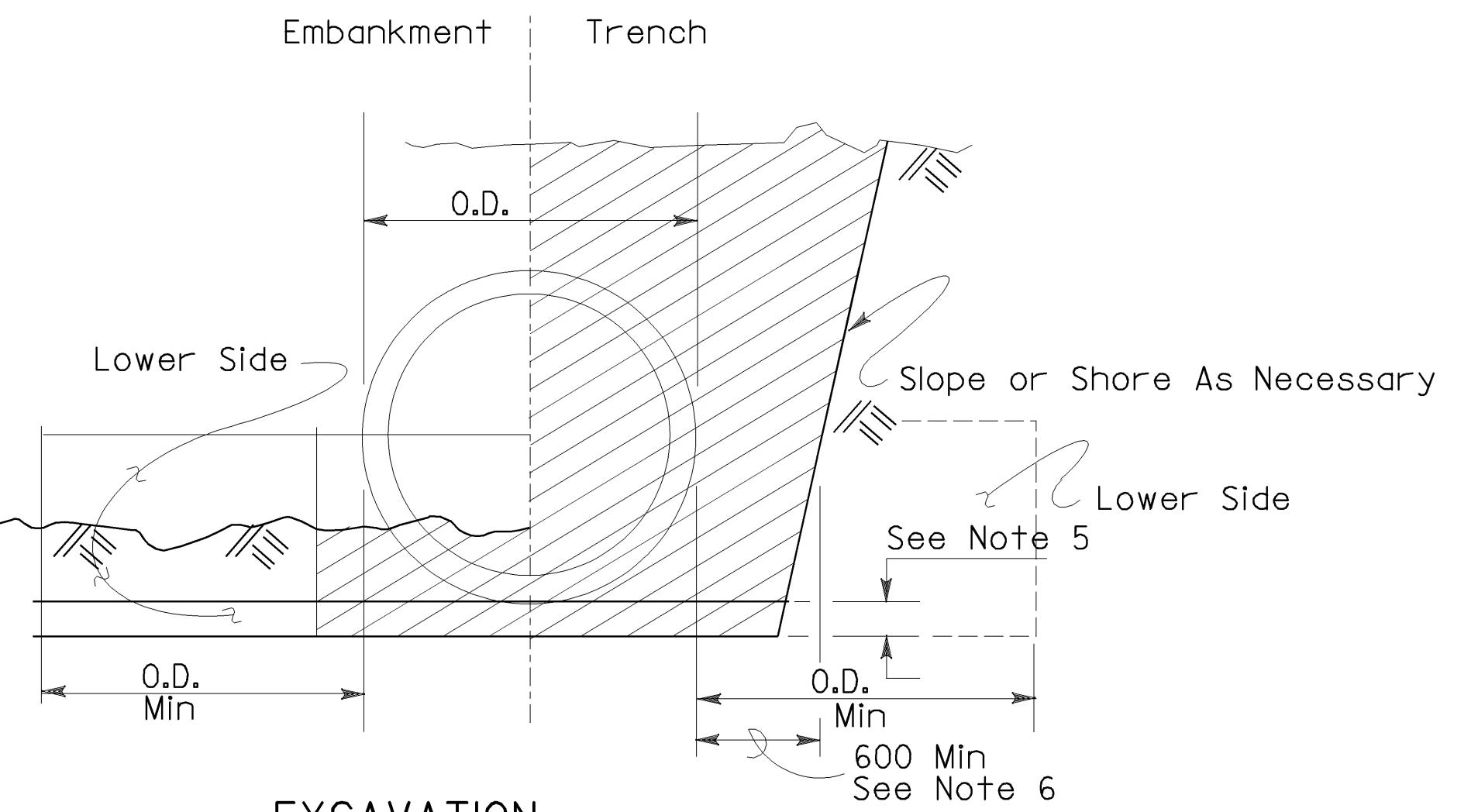
Caltrans now has a web site! To get to the web site, go to: <http://www.dot.ca.gov>

**INSTALLATION TYPE 1**

| MINIMUM CLASS AND D-LOAD | COVER (IN METERS)     |               |
|--------------------------|-----------------------|---------------|
|                          | 2700 DIA. AND SMALLER | OVER 2700 DIA |
| Class II 50D             | 4.50                  | 4.00          |
| Class III 65D            | 4.5I - 6.40           | 4.0I - 5.80   |
| Class III Special 80D    | 6.4I - 8.20           | 5.8I - 7.60   |
| Class IV I00D            | 8.2I - 9.70           | 7.6I - 9.10   |
| Class IV Special I20D    | 9.7I - 12.50          | 9.1I - 11.90  |
| Class V I40D             | 12.5I - 15.20         | 11.9I - 14.30 |
| Class V Special I70D     | 15.2I - 18.00         | 14.3I - 17.70 |

**INSTALLATION TYPE 2**

| MINIMUM CLASS AND D-LOAD | COVER (IN METERS) |
|--------------------------|-------------------|
| Class II 50D             | 3.00              |
| Class III 65D            | 3.0I - 4.60       |
| Class III Special 80D    | 4.6I - 6.10       |
| Class IV I00D            | 6.1I - 7.60       |
| Class IV Special I20D    | 7.6I - 9.80       |
| Class V I40D             | 9.8I - 11.90      |
| Class V Special I70D     | 11.9I - 14.30     |



O.D. - Outside diameter of pipe.  
RCP - Reinforced concrete pipe

**TYPE 1 INSTALLATION:**

The haunch and outer bedding shall be compacted to a minimum 90 percent relative compaction. In addition, the minimum sand equivalent in these areas shall be 30 and the maximum percentage passing the 75  $\mu\text{m}$  sieve size shall be 12. Lower side shall be suitable material as determined by the Engineer. Otherwise it shall be considered unsuitable as set forth in Section I9-2.02 of the Standard Specifications. See Note 9.

**TYPE 2 INSTALLATION:**

The haunch and outer bedding shall be compacted to a minimum 90 percent relative compaction. In addition, the minimum sand equivalent in these areas shall be 25. Lower side shall be suitable material as determined by the Engineer. Otherwise it shall be considered unsuitable as set forth in Section I9-2.02 of the Standard Specifications. See Note 9.

**TYPE 3 INSTALLATION:**

The haunch and outer bedding shall be compacted to a minimum 85 percent relative compaction. In addition, the minimum sand equivalent in these areas shall be 25. If the sand equivalent is between 20 and 25, 90 percent relative compaction will be required. This installation may not be used where the fill over the pipe is less than  $1/2$  O.D. Lower side shall be suitable material as determined by the Engineer. Otherwise it shall be considered unsuitable as set forth in Section I9-2.02 of the Standard Specifications. See Note 9.

**INSTALLATION TYPE 3**

| MINIMUM CLASS AND D-LOAD | COVER (IN METERS)     |               |
|--------------------------|-----------------------|---------------|
|                          | I200 DIA. AND SMALLER | OVER I200 DIA |
| Class II 50D             | 2.40                  | 1.80          |
| Class III 65D            | 2.4I - 3.40           | 1.8I - 2.70   |
| Class III Special 80D    | 3.4I - 4.60           | 2.7I - 4.00   |
| Class IV I00D            | 4.6I - 5.50           | 4.0I - 4.90   |
| Class IV Special I20D    | 5.5I - 6.70           | 4.9I - 6.10   |
| Class V I40D             | 6.7I - 8.20           | 6.1I - 7.60   |
| Class V Special I70D     | 8.2I - 10.00          | 7.6I - 9.50   |



|      |         |       |                                 |           |              |
|------|---------|-------|---------------------------------|-----------|--------------|
| DIST | COUNTY  | ROUTE | KILOMETER POST<br>TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 05   | SB, SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 138       | 155          |

Paul Cotter  
REGISTERED CIVIL ENGINEER

October 26, 2000  
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENG. ING.  
No. C34509  
Exp. 9-30-03  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 11-29-04

**NOTES:**

- Unless otherwise shown on the plans or specified in the special provision, the Contractor shall have the option of selecting the class of RCP and the type of installation to be used, provided the height of cover does not exceed the value shown for the RCP selected.  
Example: 600 mm RCP culvert with maximum cover of 5.80 m the options are:
  - Class III or stronger with Installation Type 1.
  - Class III Special or stronger with Installation Type 2.
  - Class IV Special or stronger with Installation Type 3.
 Cover is defined as the maximum vertical distance from top of the pipe to finished grade within the length of any given culvert.
- The class of RCP and Installation Type selected shall be the same throughout the length of any given culvert.
- The "length of any culvert" is defined as the culvert between:
  - Successive drainage structure (inlets, junction boxes, headwalls, etc.).
  - A drainage structure and the inlet or outlet end of the culvert.
  - The inlet and outlet end of the culvert when there are no intervening drainage structures.
- Oval and arch shaped RCP shall not be used.
- O.D./25 min, not less than 75.
- Slurry cement backfill may be substituted for backfill in the outer bedding and haunch areas. If slurry is used the outer and middle beddings shall be omitted. Prior to installation the soil under the middle 1/3 of the outside diameter of the pipe shall be softened by scarifying or other means to a minimum depth of O.D./25, but not less than 75 mm. Where slurry cement backfill is used clear distance to trench wall may be reduced as set forth in Section I9-3.062 of the Standard Specifications.
- Backfill shall be placed full width of excavation except where dimensions are shown for backfill width or thickness. Dimensions shown are minimums.
- Minimum cover over top of pipe at edge of traveled way shall be 600 mm for AC pavement and 300 mm for PCC pavement.
- Where the pipe is placed in a trench, if the trench walls are sloped at 5 vertical to 1 horizontal or steeper for at least 90 percent of the trench height, or sloped up to not less than 300 mm from the grading plane, the firmness of the soil in the lower side need not be considered.
- Non-reinforced precast concrete pipe sizes 900 or smaller may be placed under installation types 1, 2 or 3.

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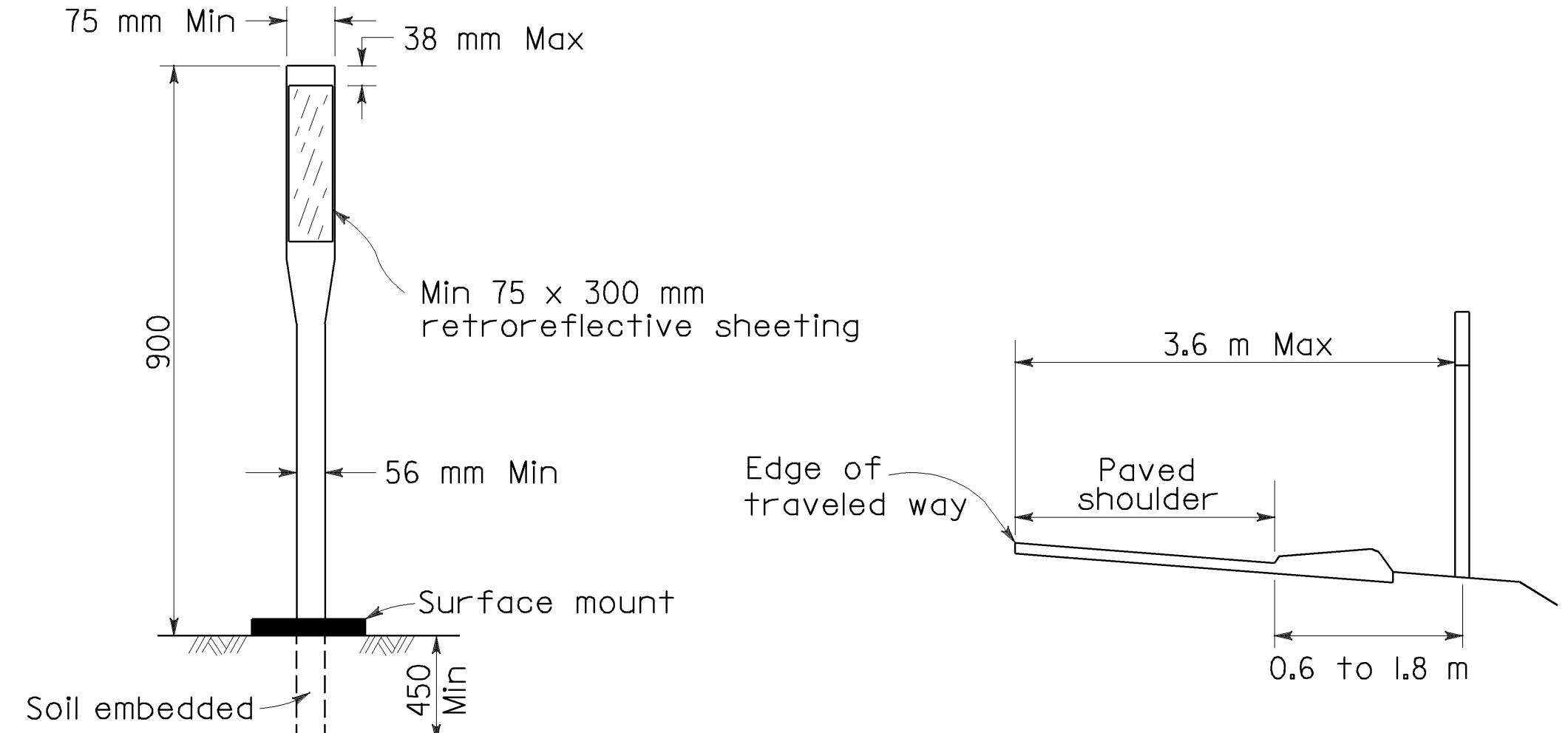
**EXCAVATION AND BACKFILL CONCRETE PIPE CULVERTS**

NO SCALE

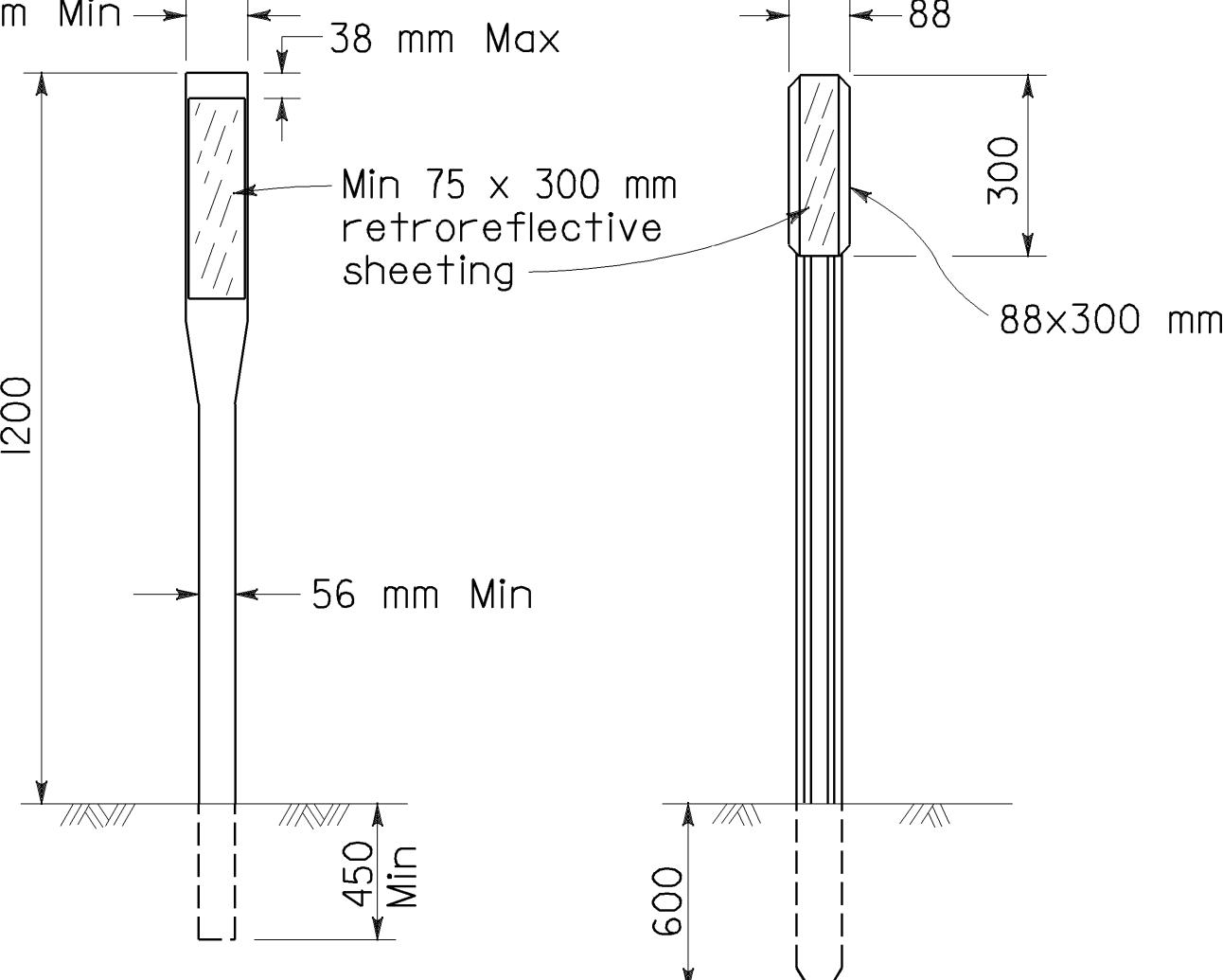
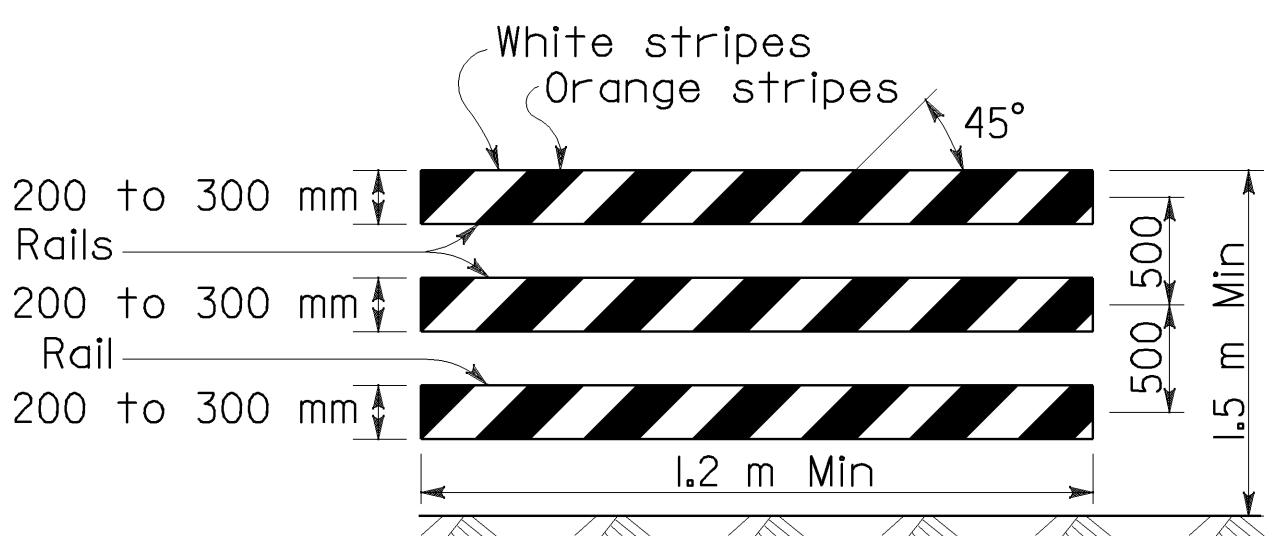
ALL DIMENSIONS ARE IN  
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RSP A62DA DATED OCTOBER 26, 2000 SUPERSEDES STANDARD PLAN A62DA  
DATED JULY 1, 1999-PAGE 20 OF THE STANDARD PLANS BOOK DATED JULY 1999.

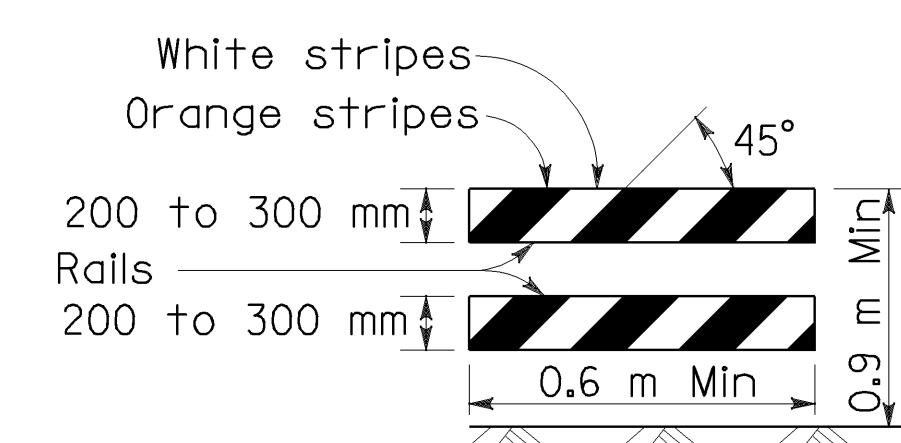
**REVISED STANDARD PLAN RSP A62DA**



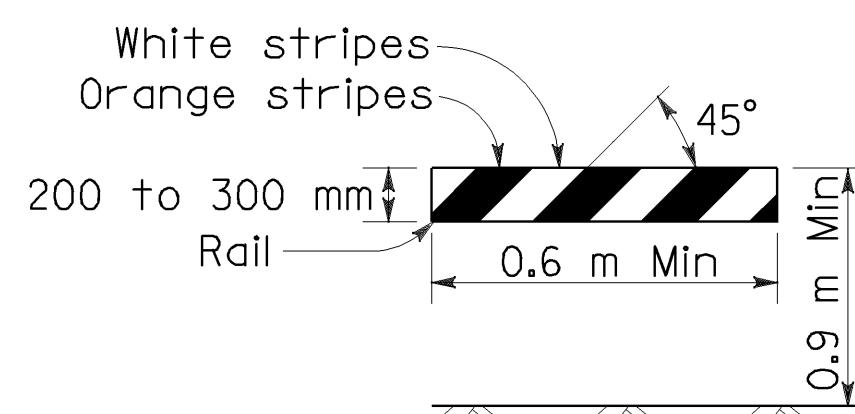
DELINEATOR POSITIONING

CLASS 2  
METAL POST  
See Note 4CHANNELIZERS

TYPE III BARRICADE



TYPE II BARRICADE

TYPE I BARRICADE  
See Note ABARRICADES (See Note 3)

Only face of rails shown. Barricade construction materials and supports as specified in the specifications.

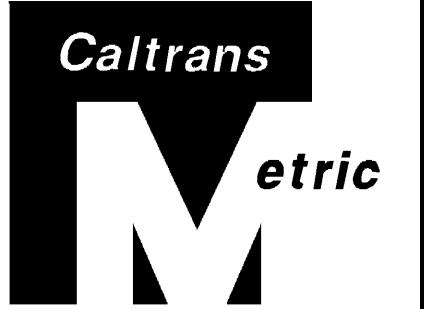
| BARRICADE                            | TYPE I                 | TYPE II                | TYPE III  |
|--------------------------------------|------------------------|------------------------|---|
| Width of Rail                        | 200 mm Min-300 mm Max* | 200 mm Min-300 mm Max* | 200 mm Min-300 mm Max*  |
| Length of Rail                       | 0.6 m Min              | 0.6 m Min              | 1.2 m Min   |
| Width of Stripes **                  | 150 mm                 | 150 mm                 | 150 mm  |
| Height                               | 0.9 m Min              | 0.9 m Min              | 1.5 m Min   |
| Number of Retroreflective Rail Faces | 2 (one each direction) | 4 (two each direction) | 3 if facing traffic in one direction<br>6 if facing traffic in two directions |

\* For the wooden option dimensions are nominal lumber dimensions.

\*\* For rails less than 0.9 m long, 100 mm wide stripes shall be used.

NOTE A

Barricades to have a minimum of 0.17 m<sup>2</sup> (17,204 mm<sup>2</sup>) of retroreflective area facing traffic when used on freeways, expressways, and other high speed highways.



|      |        |       |                      |           |              |
|------|--------|-------|----------------------|-----------|--------------|
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*G.W. Edwards*  
REGISTERED CIVIL ENGINEER  
October 26, 2000  
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G.W. Edwards  
No. C36386  
Exp. 6-30-04  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 11-29-04

| TYPE  | DELINATEATORS            |                     |
|-------|--------------------------|---------------------|
|       | RETROREFLECTIVE SHEETING |                     |
| FRONT | BACK                     |                     |
| E     | White                    | White (See Note I)  |
| F     | White                    | None                |
| G     | Yellow                   | None                |
| I     | Yellow                   | Yellow (See Note I) |
| J     | Red                      | None                |

NOTES

- The retroreflective sheeting used on the back of delineator shall be a minimum size of 75 mm x 75 mm.
- The type of delineator to be installed will be designated on the plans.
- All barricade stripes shall be retroreflective.
- See Standard Plan A73B for Metal Post Details.

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**DELINATEATORS, CHANNELIZERS AND BARRICADES**

NO SCALE

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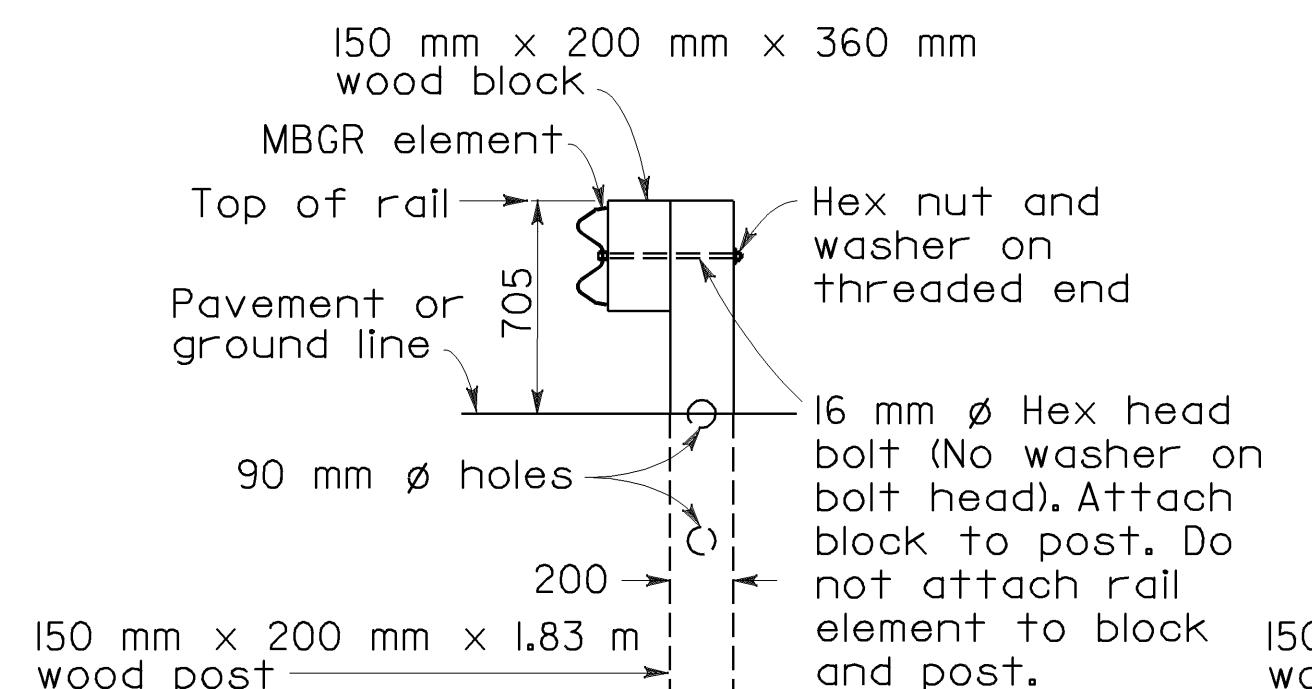
RSP A73C DATED OCTOBER 26, 2000 SUPERSEDES STANDARD PLAN A73C  
DATED JULY 1, 1999-PAGE 25 OF THE STANDARD PLANS BOOK DATED JULY 1999.

**REVISED STANDARD PLAN RSP A73C**

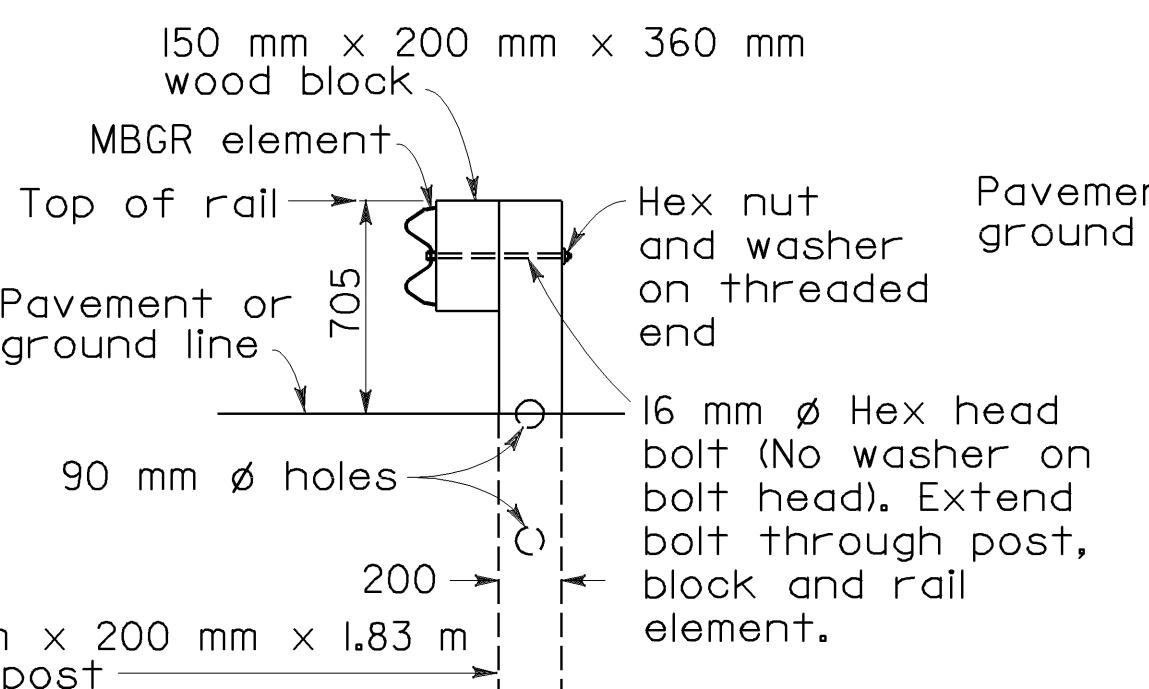
TABLE A

| Post No. | POST OFFSET DIMENSIONS   |                           |
|----------|--------------------------|---------------------------|
|          | 915 mm System End Offset | 1070 mm System End Offset |
| 1        | 915 mm                   | 1070 mm                   |
| 2        | 565 mm                   | 705 mm                    |
| 3        | 300 mm                   | 420 mm                    |
| 4        | 170 mm                   | 270 mm                    |
| 5        | 75 mm                    | 150 mm                    |
| 6        | 20 mm                    | 70 mm                     |
| 7        | 0 mm                     | 20 mm                     |
| 8        | 0 mm                     | 0 mm                      |
| 9        | 0 mm                     | 0 mm                      |

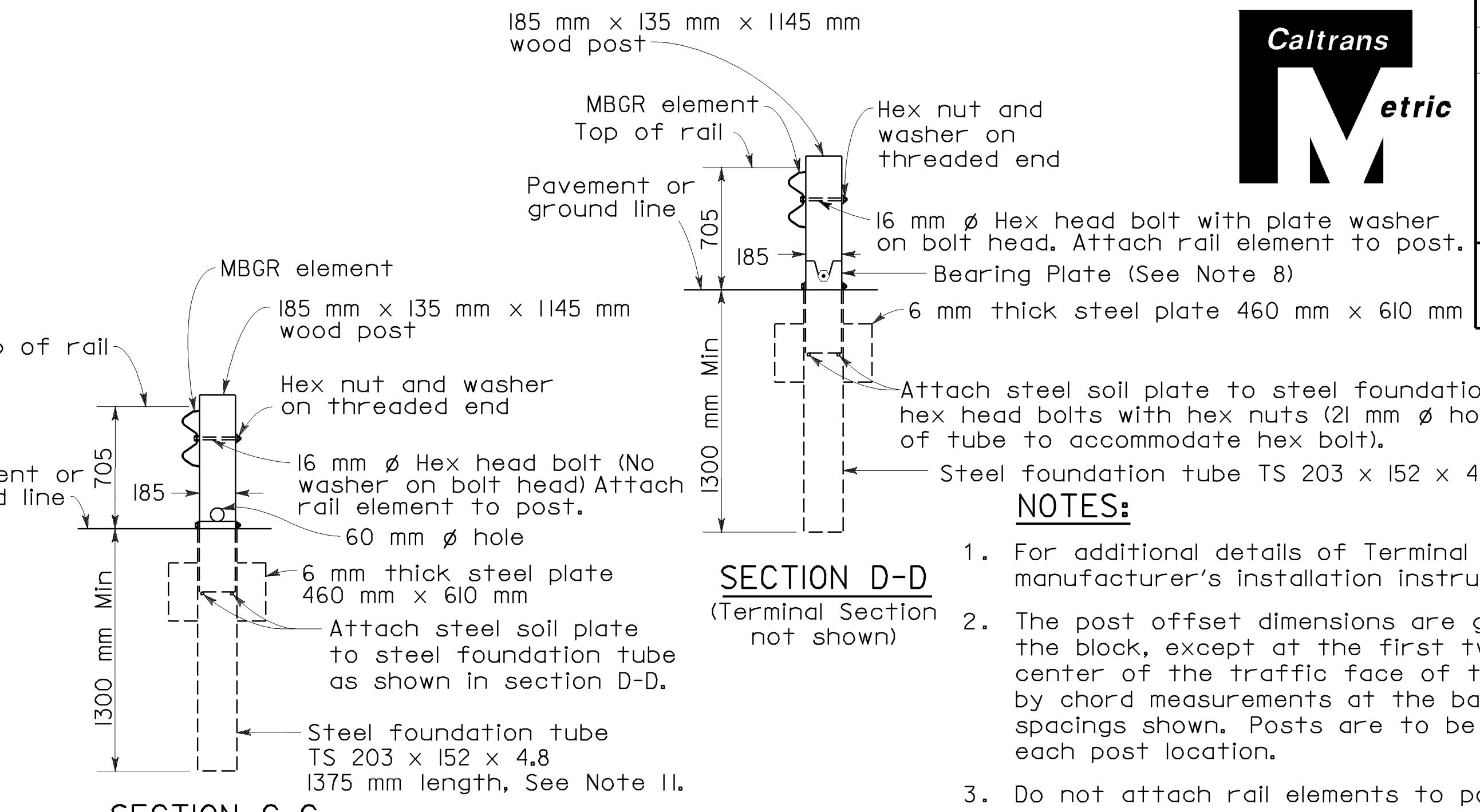
See Note 12



SECTION A-A



SECTION B-B

SECTION D-D  
(Terminal Section not shown)

|      |         |       |                      |           |              |
|------|---------|-------|----------------------|-----------|--------------|
| DIST | COUNTY  | ROUTE | KILOMETER POST       | SHEET NO. | TOTAL SHEETS |
| 05   | SB, SLO | 33    | 0.0/13.2,<br>0.0/8.0 | 140       | 155          |

R. A. Peterson  
REGISTERED CIVIL ENGINEER  
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To accompany plans dated 11-29-04

- NOTES:**
- For additional details of Terminal System (Type SRT), refer to the manufacturer's installation instructions.
  - The post offset dimensions are given to the center of the traffic face of the block, except at the first two posts, where the dimension is to the center of the traffic face of the post. Offset points are to be located by chord measurements at the back of the rail equal to the nominal post spacings shown. Posts are to be set approximately radial to the railing at each post location.
  - Do not attach rail elements to posts 7 and 8.
  - Attach strut to Post Nos. 1 and 2 foundation tubes with 16 mm hex head bolts, washers and hex nuts. Bolts extend through the strut, steel foundation tube, and wood posts.
  - For the length and type of guard railing or barrier the terminal system is attached to, see the Project Plans. For minimum length of guard railing used with terminal system end treatments, see Standard Plans A77D and A77E.
  - Attach rail element to this post and block. Payment for this post, block and hardware is included in payment for the type of railing or barrier the terminal system is attached to, not part of payment for Terminal System (Type SRT).
  - The deflector angle of the slot guard is to be positioned immediately downstream of the slots.
  - For bearing plate orientation, refer to the manufacturer's installation instructions.
  - Terminal system (Type SRT) is a flared end treatment for guard railing or single faced barrier railing. See Type IA and IB Layouts on Standard Plan A77D and Type 8A Layout on Standard Plan A77E for typical use of this terminal system with guard railing. See Standard Plan A78E for typical use of this terminal system with single thrie beam barrier.
  - A complete wrap around terminal section may continued to be used in existing installations. New installations shall be constructed with the  $\frac{3}{4}$  wrap terminal section shown.
  - A 1830 mm length steel foundation tube, TS 203 x 152 x 4.8, without a soil plate, may be furnished and installed in place of the 1375 mm length steel foundation tube and soil plate shown. Minimum embedment of the 1830 mm length tube shall be 1760 mm. A 16 mm hex head bolt and nut shall be installed in the hole in 1830 mm length tube to keep the wood post from dropping into the tube.
  - Where site conditions will not accommodate use of the standard 1220 mm system end offset, 1070 mm or 915 mm system end offsets, as applicable, may be used. See Table A for post offset dimensions for 1070 mm and 915 mm system end offsets.

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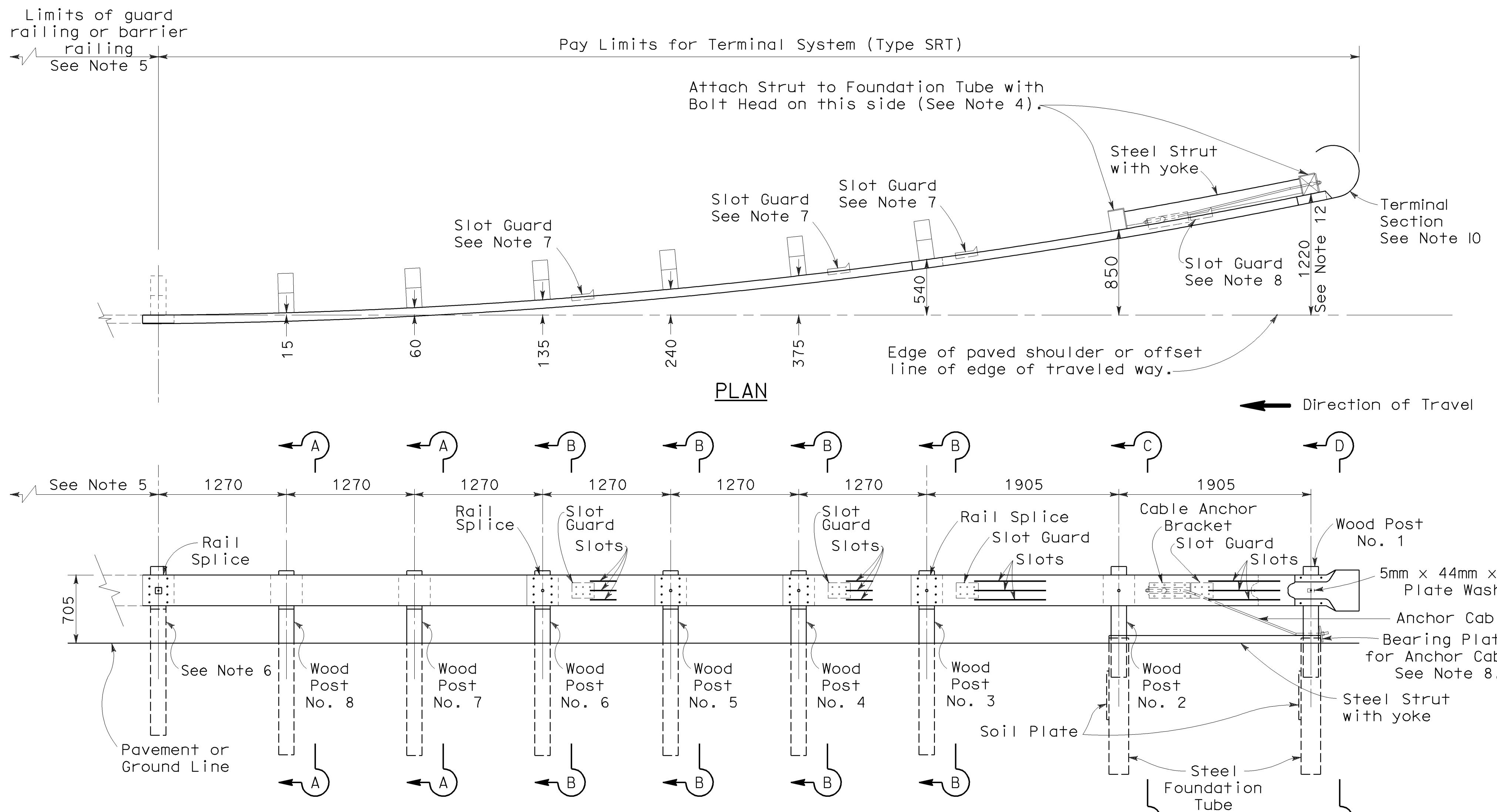
## METAL BEAM GUARD RAILING AND SINGLE FACED BARRIER RAILING TERMINAL SYSTEM END TREATMENTS

NO SCALE

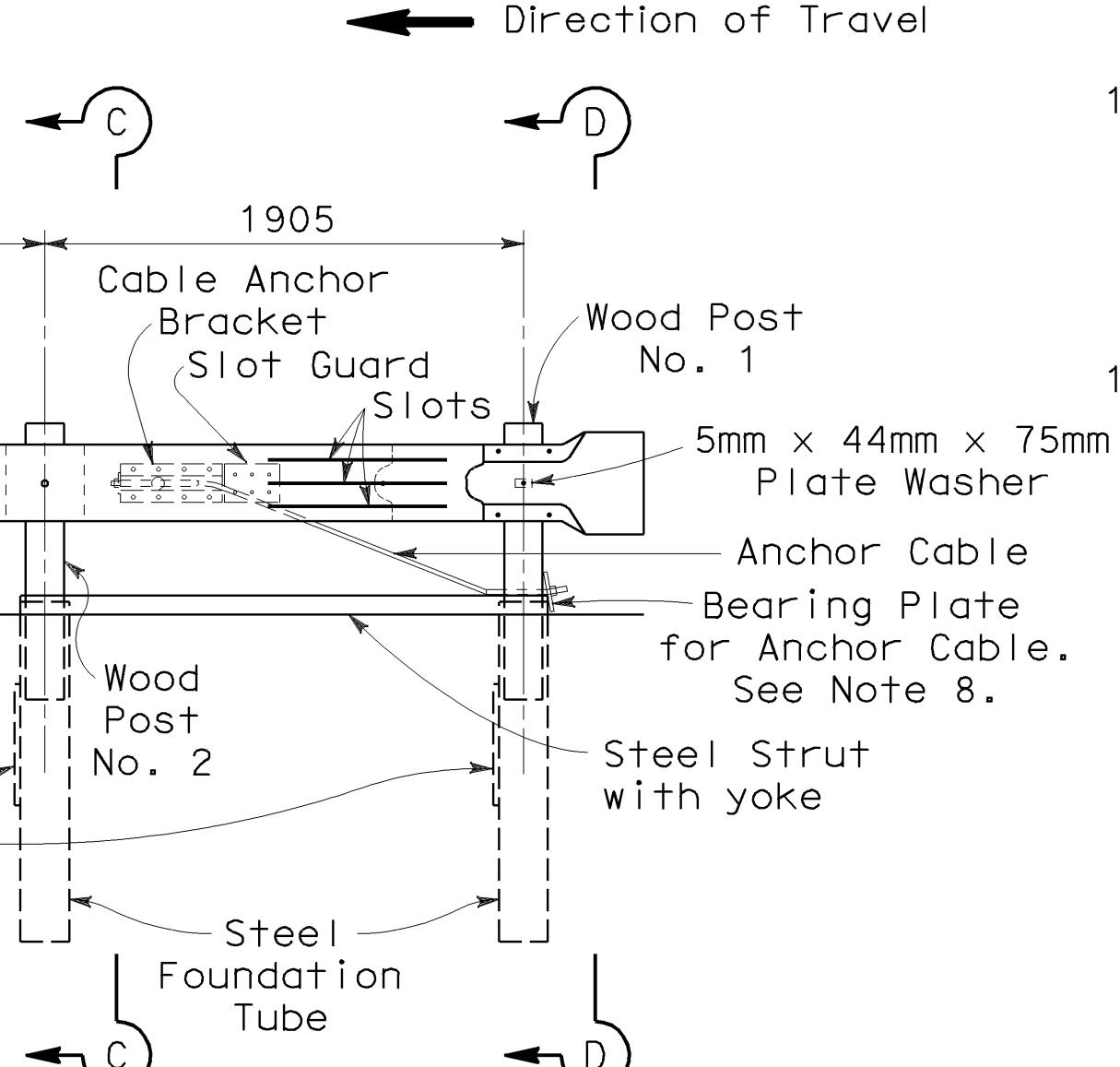
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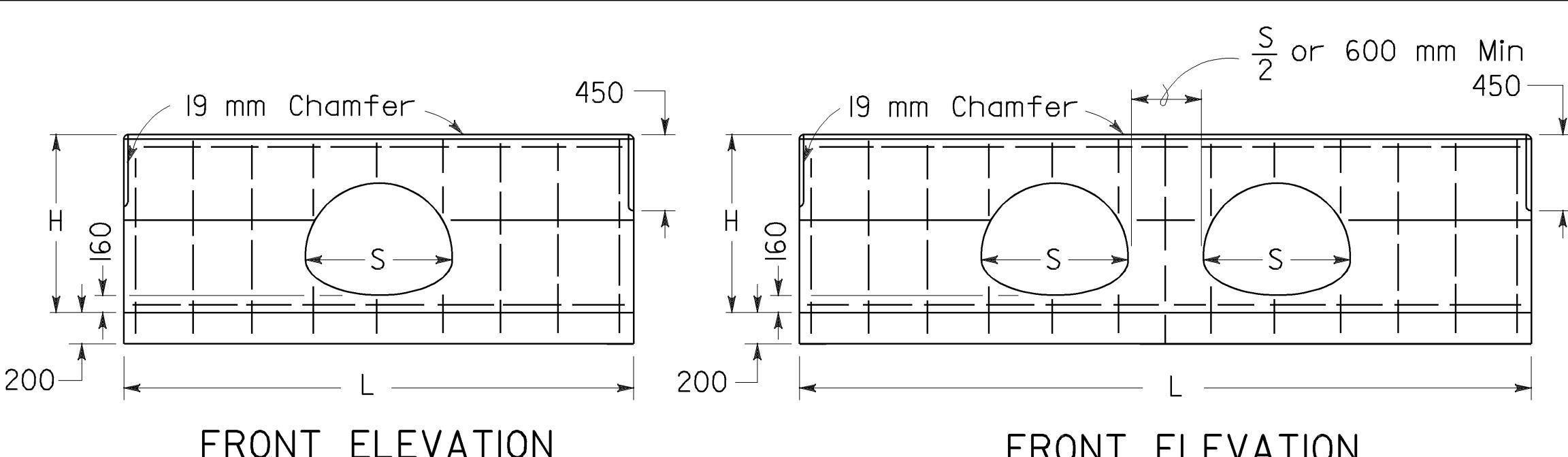
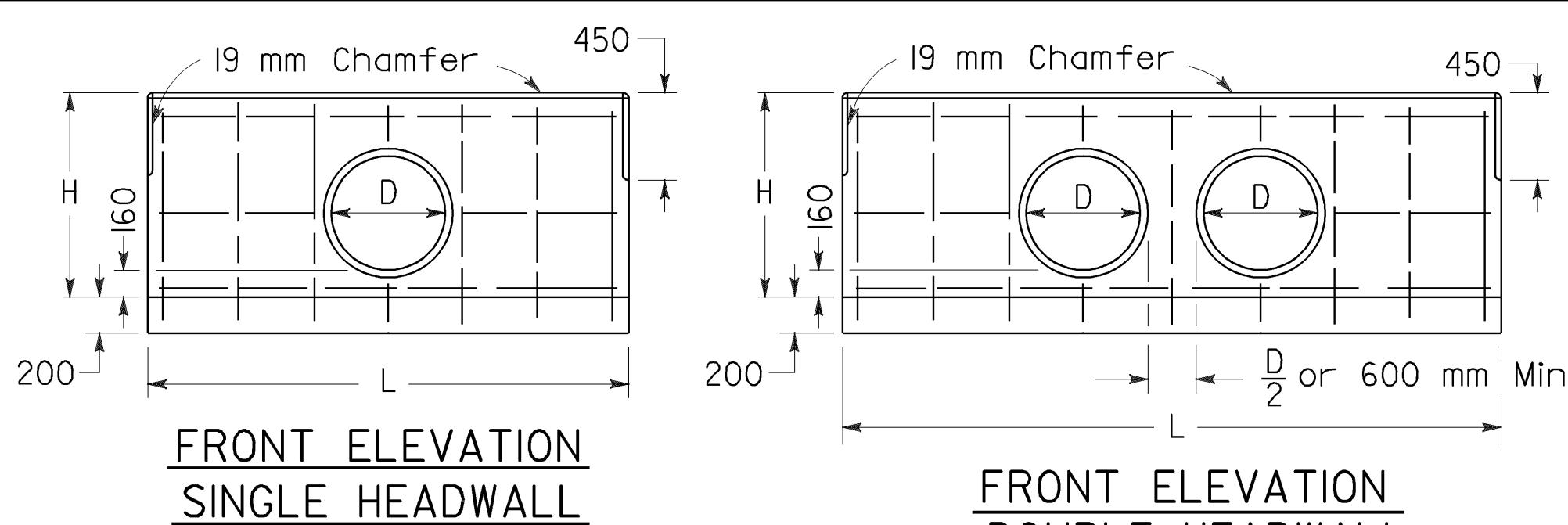
**TERMINAL SYSTEM (TYPE SRT)**  
(8 Post System)  
See Note 9



ELEVATION



REVISED STANDARD PLAN RSP A77L



**Caltrans**  
**Metric**

|      |         |       |                                 |           |              |
|------|---------|-------|---------------------------------|-----------|--------------|
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| 05   | SB, SLO | 33    | 0.0/13.2,<br>0.0/8.0            | 141       | 155          |

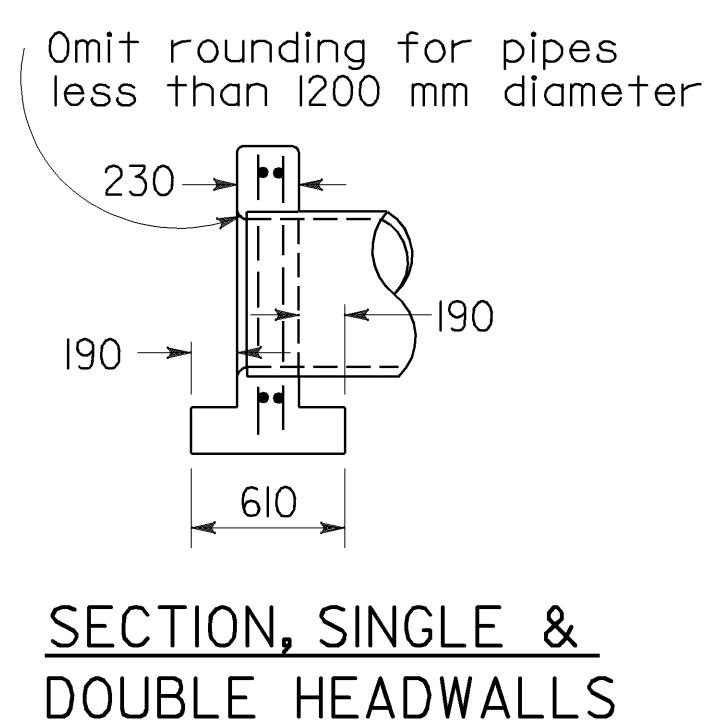
Glenn DeCoy  
REGISTERED CIVIL ENGINEER  
October 26, 2000  
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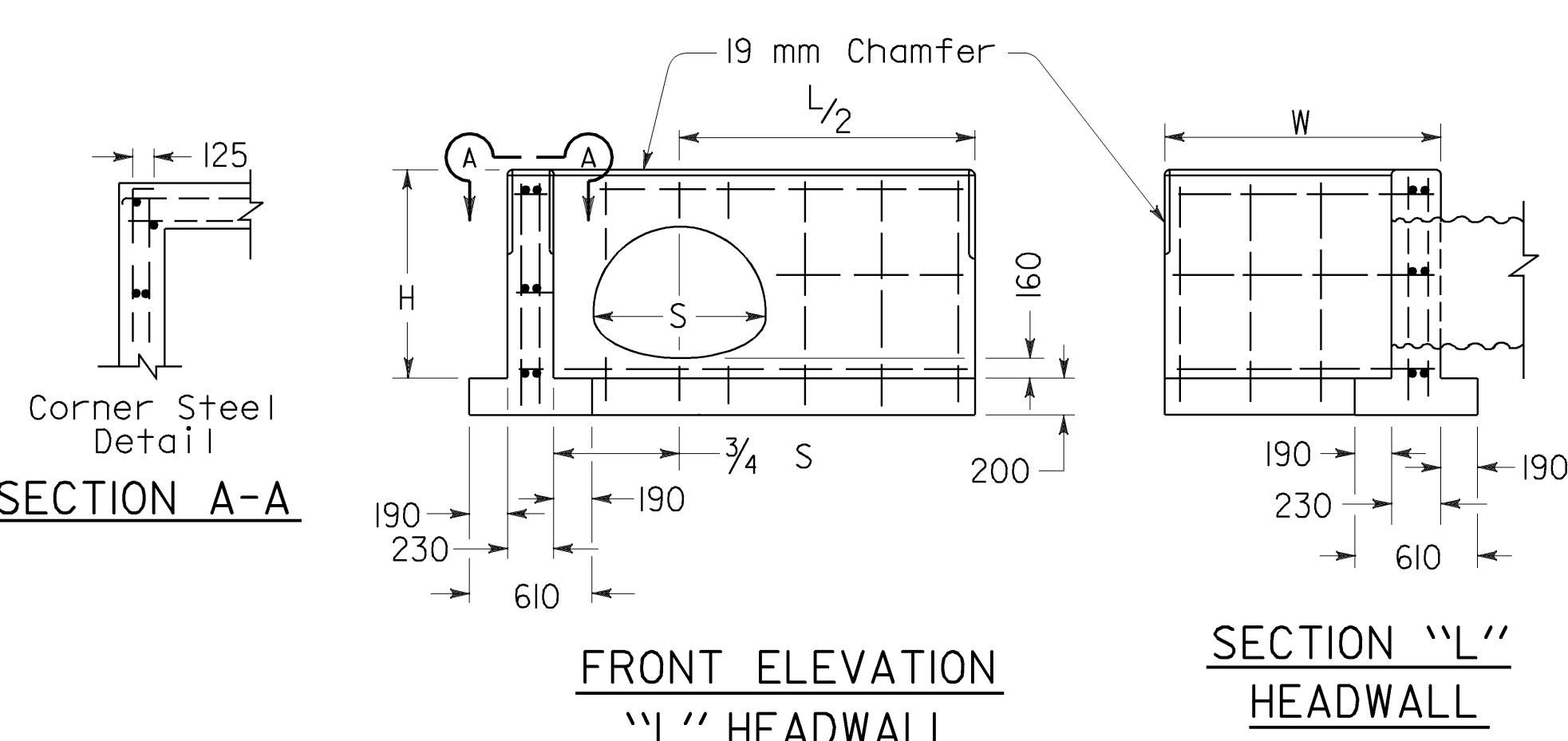
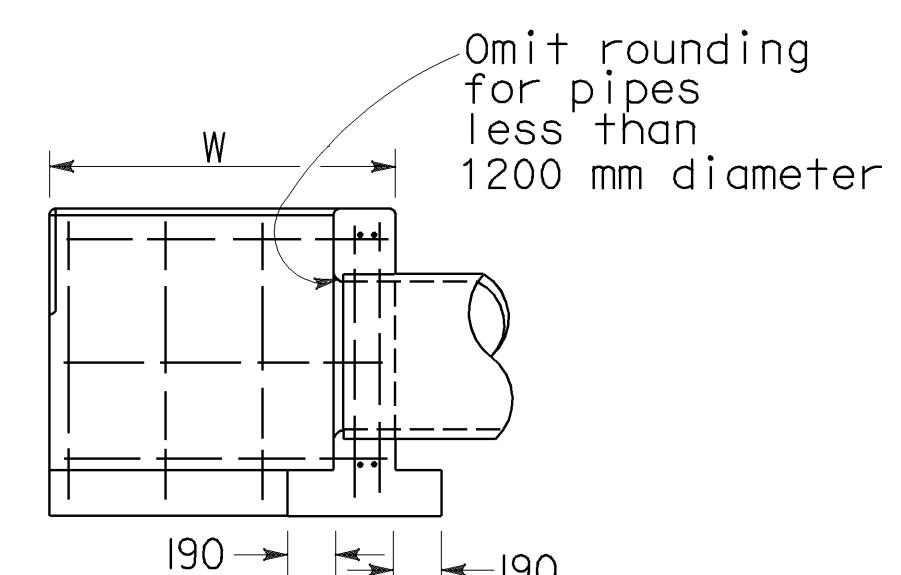
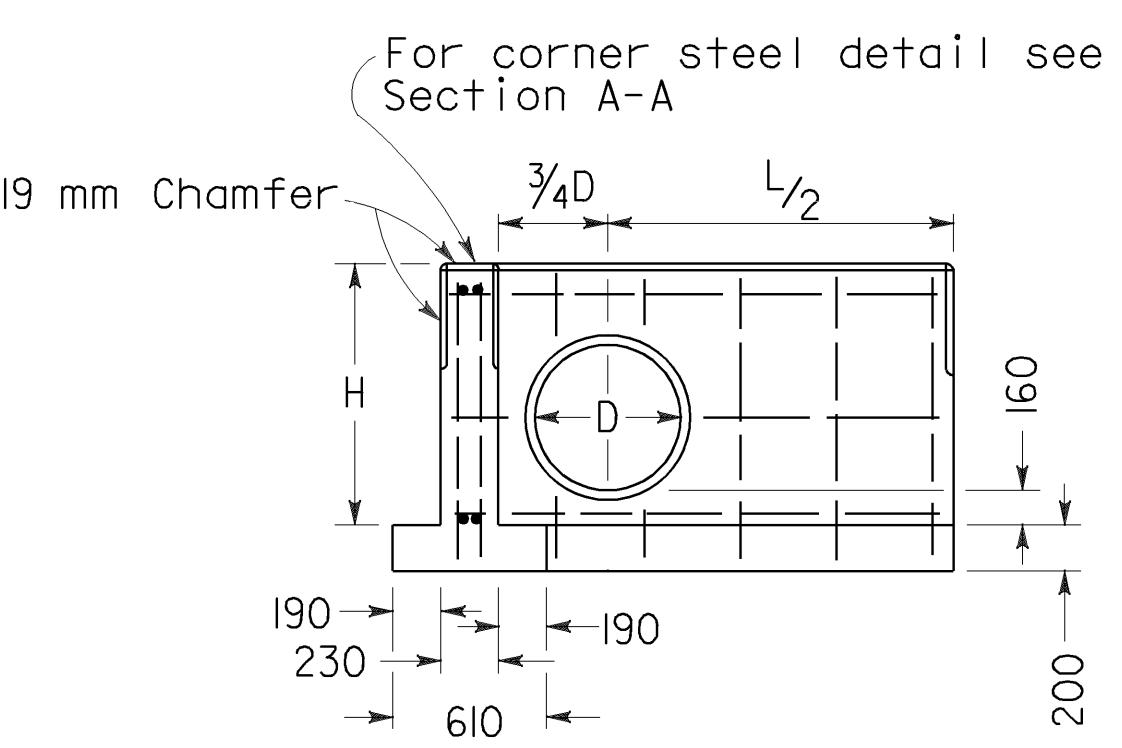
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| D    | H    | SINGLE |       |      | DOUBLE |       |      |
|------|------|--------|-------|------|--------|-------|------|
|      |      | L      | Steel | Conc | L      | Steel | Conc |
| mm   | mm   | mm     | kg    | m³   | mm     | kg    | m³   |
| 300  | 810  | 1500   | 16    | 0.45 | 2500   | 24    | 0.74 |
| 375  | 885  | 1800   | 18    | 0.56 | 2950   | 28    | 0.91 |
| 450  | 960  | 2100   | 22    | 0.68 | 3250   | 34    | 1.04 |
| 525  | 1035 | 2250   | 26    | 0.76 | 3550   | 40    | 1.18 |
| 600  | 1110 | 2550   | 34    | 0.90 | 3850   | 46    | 1.32 |
| 675  | 1185 | 2850   | 38    | 1.04 | 4300   | 52    | 1.53 |
| 750  | 1260 | 3000   | 40    | 1.13 | 4600   | 54    | 1.69 |
| 825  | 1335 | 3300   | 44    | 1.29 | 4900   | 58    | 1.86 |
| 900  | 1410 | 3600   | 46    | 1.46 | 5200   | 66    | 2.03 |
| 975  | 1485 | 3750   | 58    | 1.57 | 5500   | 78    | 2.21 |
| 1050 | 1560 | 4050   | 62    | 1.75 | 5800   | 84    | 2.39 |
| 1125 | 1635 | 4350   | 66    | 1.94 | 6100   | 88    | 2.58 |
| 1200 | 1710 | 4500   | 70    | 2.06 | 6400   | 90    | 2.78 |
| 1275 | 1785 | 4800   | 80    | 2.26 | 6850   | 102   | 3.06 |
| 1350 | 1860 | 5100   | 84    | 2.47 | 7150   | 108   | 3.27 |

### STRAIGHT HEADWALLS



| CMP ARCH SIZE | SINGLE |      |       | DOUBLE |      |       |      |
|---------------|--------|------|-------|--------|------|-------|------|
|               | H      | L    | Steel | Conc   | L    | Steel | Conc |
| mm            | mm     | kg   | m³    | mm     | kg   | m³    |      |
| 530x380       | 885    | 2000 | 20    | 0.61   | 3000 | 28    | 0.91 |
| 610x460       | 960    | 2300 | 22    | 0.74   | 3500 | 32    | 1.10 |
| 710x510       | 1010   | 2600 | 28    | 0.85   | 4100 | 40    | 1.32 |
| 885x610       | 1110   | 3200 | 38    | 1.11   | 4700 | 54    | 1.58 |
| 1060x740      | 1235   | 3800 | 50    | 1.40   | 5500 | 66    | 1.95 |
| 1240x840      | 1335   | 4400 | 58    | 1.70   | 6400 | 78    | 2.37 |
| 1440x970      | 1460   | 5200 | 70    | 2.13   | 7450 | 96    | 2.91 |
| 1620x1100     | 1585   | 5800 | 80    | 2.50   | 8200 | 104   | 3.36 |
| 1800x1200     | 1685   | 6400 | 88    | 2.89   | 9100 | 116   | 3.88 |



| D    | H    | L/2  | LENGTH OF W |      |      |      |      |       |      |      |
|------|------|------|-------------|------|------|------|------|-------|------|------|
|      |      |      | 1000        | 1450 | 1900 | 2350 | 2800 | Steel | Conc |      |
| mm   | mm   | mm   | kg          | m³   | kg   | m³   | kg   | m³    | kg   | m³   |
| 300  | 810  | 750  | 22          | 0.59 | 26   | 0.73 | —    | —     | —    | —    |
| 375  | 885  | 900  | 24          | 0.68 | 28   | 0.83 | —    | —     | —    | —    |
| 450  | 960  | 1050 | 28          | 0.78 | 32   | 0.94 | —    | —     | —    | —    |
| 525  | 1035 | 1125 | 32          | 0.86 | 40   | 1.02 | —    | —     | —    | —    |
| 600  | 1110 | 1275 | 38          | 0.96 | 44   | 1.13 | 48   | 1.30  | —    | —    |
| 675  | 1185 | 1425 | 40          | 1.07 | 46   | 1.25 | 50   | 1.43  | —    | —    |
| 750  | 1260 | 1500 | 42          | 1.16 | 48   | 1.34 | 52   | 1.53  | 60   | 1.72 |
| 825  | 1335 | 1650 | 46          | 1.28 | 52   | 1.47 | 60   | 1.67  | 66   | 1.86 |
| 900  | 1410 | 1800 | 48          | 1.40 | 54   | 1.61 | 62   | 1.81  | 68   | 2.01 |
| 975  | 1485 | 1875 | —           | —    | 66   | 1.71 | 74   | 1.92  | 80   | 2.13 |
| 1050 | 1560 | 2025 | —           | —    | 68   | 1.85 | 76   | 2.07  | 84   | 2.28 |
| 1125 | 1635 | 2175 | —           | —    | 78   | 2.22 | 88   | 2.45  | 94   | 2.67 |
| 1200 | 1710 | 2250 | —           | —    | 84   | 2.34 | 94   | 2.57  | 100  | 2.81 |
| 1275 | 1785 | 2400 | —           | —    | —    | —    | 96   | 2.75  | 102  | 2.98 |
| 1350 | 1860 | 2550 | —           | —    | —    | —    | 102  | 2.92  | 110  | 3.17 |

### "L" HEADWALLS

### CIRCULAR PIPE CULVERT HEADWALLS

| CMP ARCH SIZE | H    | LENGTH OF W |      |      |      |      |      |      |
|---------------|------|-------------|------|------|------|------|------|------|
|               |      | L/2         | 1000 | 1450 | 1900 | 2350 | 2800 |      |
| mm            | mm   | kg          | m³   | kg   | m³   | kg   | m³   |      |
| 530x380       | 885  | 1000        | 26   | 0.74 | 30   | 0.89 | 34   | 1.04 |
| 610x460       | 960  | 1150        | 28   | 0.84 | 32   | 1.00 | 36   | 1.15 |
| 710x510       | 1010 | 1300        | 32   | 0.93 | 36   | 1.09 | 40   | 1.25 |
| 885x610       | 1110 | 1600        | 44   | 1.13 | 50   | 1.30 | 54   | 1.47 |
| 1060x740      | 1235 | 1900        | 52   | 1.36 | 58   | 1.54 | 62   | 1.72 |
| 1240x840      | 1335 | 2200        | 58   | 1.58 | 64   | 1.77 | 70   | 1.96 |
| 1440x970      | 1460 | 2600        | 64   | 1.89 | 72   | 2.09 | 78   | 2.30 |
| 1620x1100     | 1585 | 2900        | 84   | 2.16 | 90   | 2.38 | 96   | 2.60 |
| 1800x1200     | 1685 | 3200        | 90   | 2.44 | 96   | 2.66 | 104  | 2.89 |

### CORRUGATED METAL PIPE ARCH CULVERT HEADWALLS

**PIPE HEADWALLS**  
NO SCALE  
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

RSP D89 DATED OCTOBER

**Caltrans**  
**Metric**

R. A. Peterson  
REGISTERED CIVIL ENGINEER

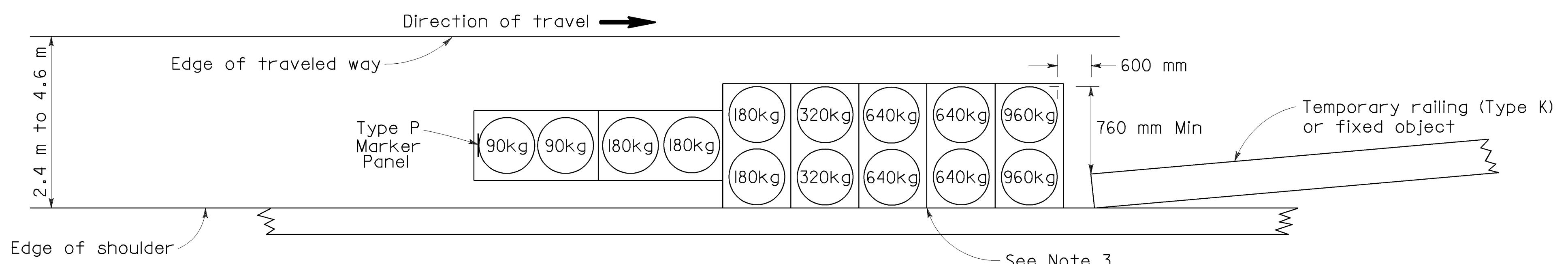
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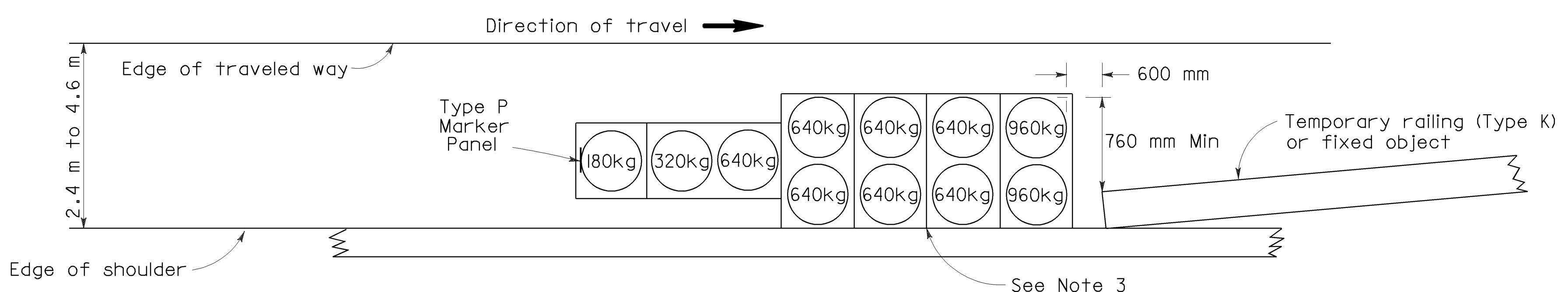
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|------|---------|-------|----------------------|-----------|--------------|
| DIST | COUNTY  | ROUTE | KILOMETER POST       | SHEET NO. | TOTAL SHEETS |
| 05   | SB, SLO | 33    | 0.0/13.2,<br>0.0/8.0 | 142       | 155          |

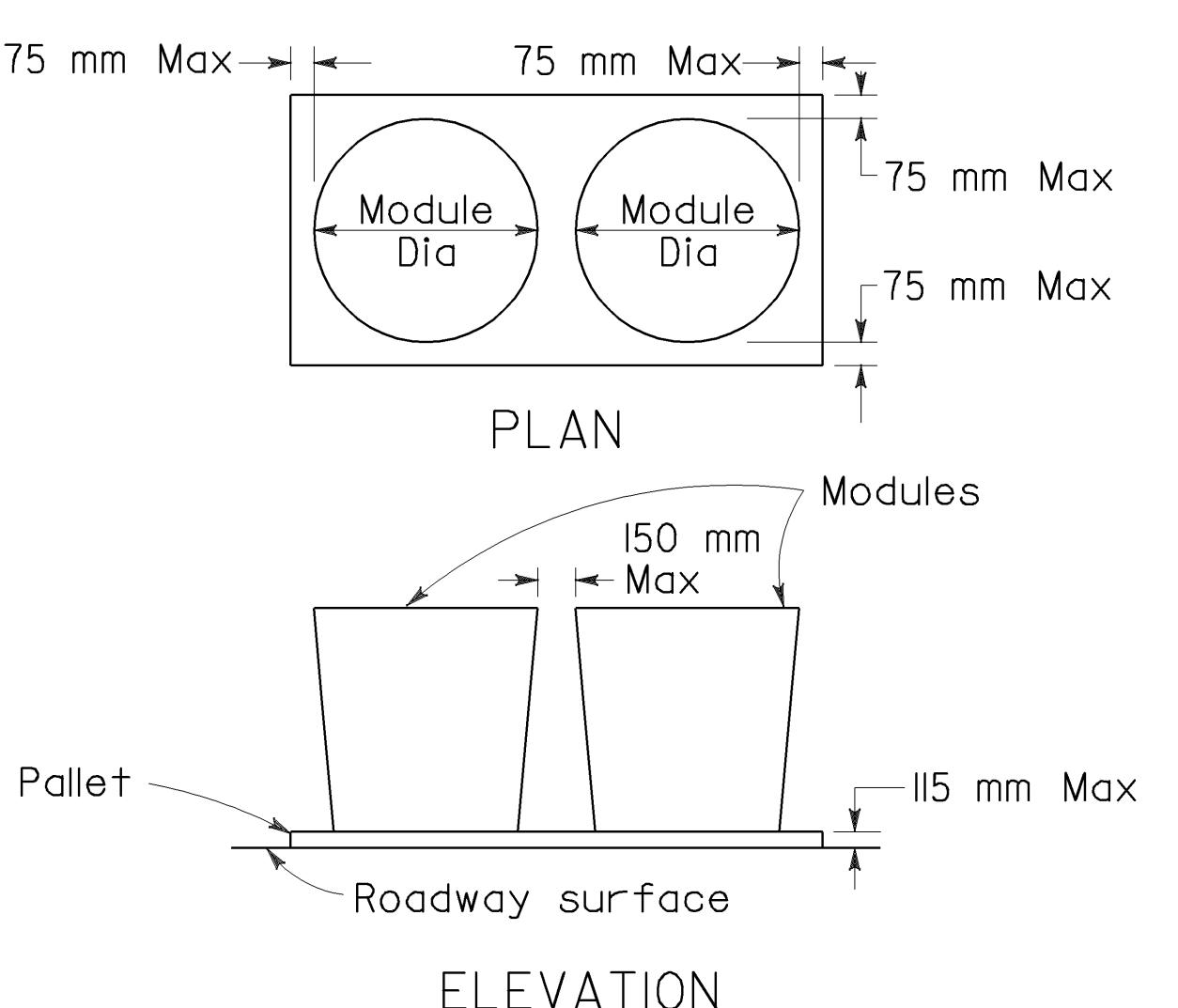
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Roy A. Peterson  
No. C47715  
Exp. 12-31-03  
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STATE OF CALIFORNIA

**ARRAY 'TSI4'**

Approach speed 100 km/h or less  
See Note 9

**ARRAY 'TSI1'**

Approach speed 70 km/h or less  
See Note 9

**CRASH CUSHION PALLET DETAIL****NOTES**

1. (XXX) Indicates sand filled module location and mass of sand in kilograms for each module. Module spacing is based on the greater diameter of the module.
2. All sand masses are nominal.
3. The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
4. If the fixed object or approach end of the temporary railing is less than 4.60 meters from the edge of traveled way, a temporary crash cushion is required.
5. Temporary crash cushion arrays shall not encroach on the traveled way.
6. Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
7. Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
8. Refer to Standard Plan A73B for marker details.
9. For shoulder widths less than 2.4 m, appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
10. Approach speeds indicated conform to NCHRP 350 Report criteria.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

## **TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)**

NO SCALE

ALL DIMENSIONS ARE IN  
MILLIMETERS UNLESS OTHERWISE SHOWN

RSP T2 DATED OCTOBER 26, 2000 SUPERSEDES STANDARD PLAN T2  
DATED JULY 1, 1999-PAGE 157 OF THE STANDARD PLANS BOOK DATED JULY 1999.

**REVISED STANDARD PLAN RSP T2**

