| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 901 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

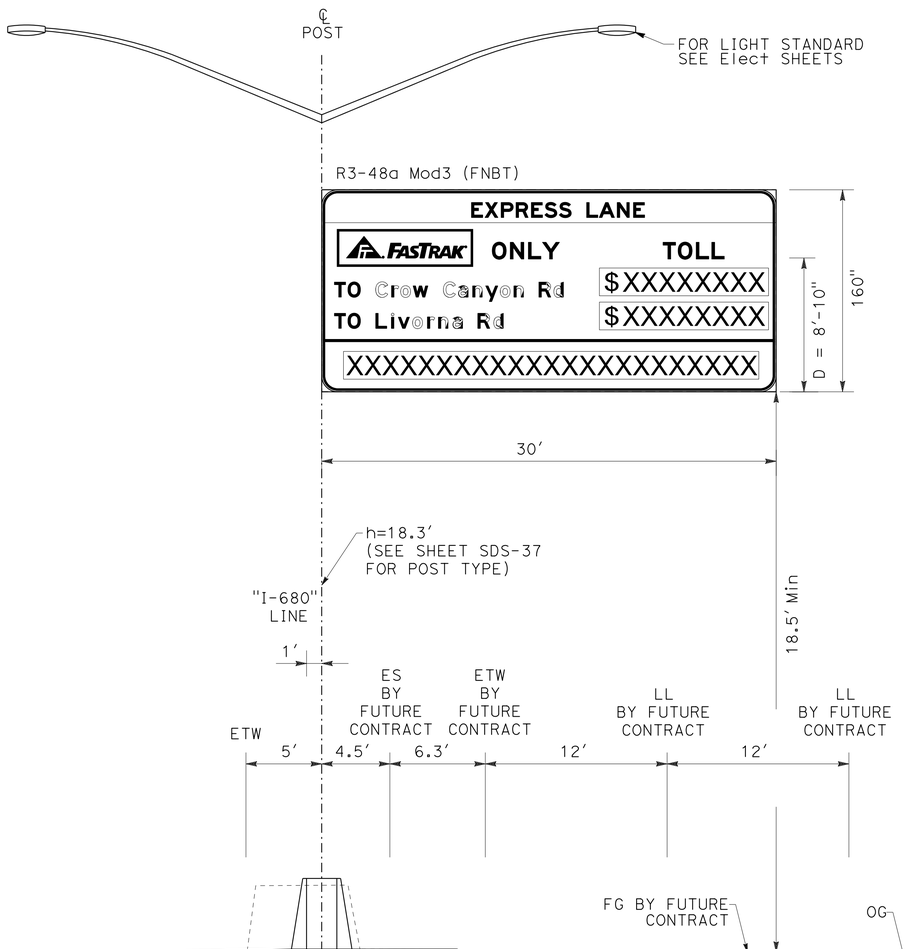
October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi — No. 68606 — Exp. 9-30-23 — CIVIL — STATE OF CALIFORNIA

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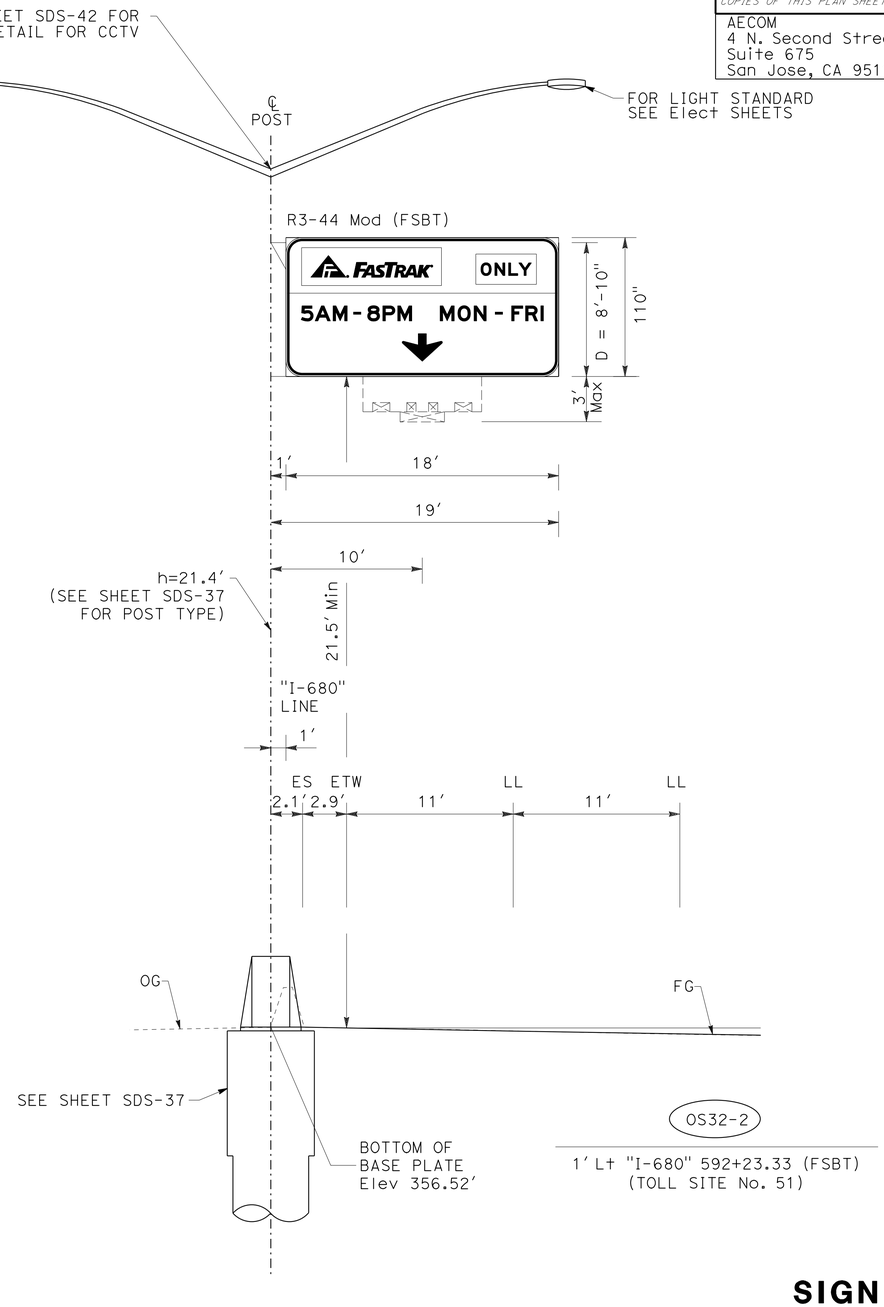

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4 N. Second Street
Suite 675
San Jose, CA 95113

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607


OS31-3

1′ Rt "I-680" 588+50 (FNBT)
(TOLL SITE No. B4)




OS32-2

1′ Lt "I-680" 592+23.33 (FSBT)
(TOLL SITE No. 51)

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SD-1

# SIGN DETAILS

NO SCALE

SD-17

LAST REVISION 09-29-21
DATE PLOTTED => 7-MAR-2022
TIME PLOTTED => 14:54

| REVISED BY | DATE REVISED |
|---|---|
| SS | 9-29-21 |

CALCULATED-DESIGNED BY: SHRUTI SHAH/ JOSE CORONEL
CHECKED BY: TIANHUA SUN
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

01\0030\DRAFTING\FINAL_PS&E\04200002350b017.dgn

BORDER LAST REVISED 7/2/2010

USERNAME => p302438
DGN FILE => 04200002350b017.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0733

PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 902 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

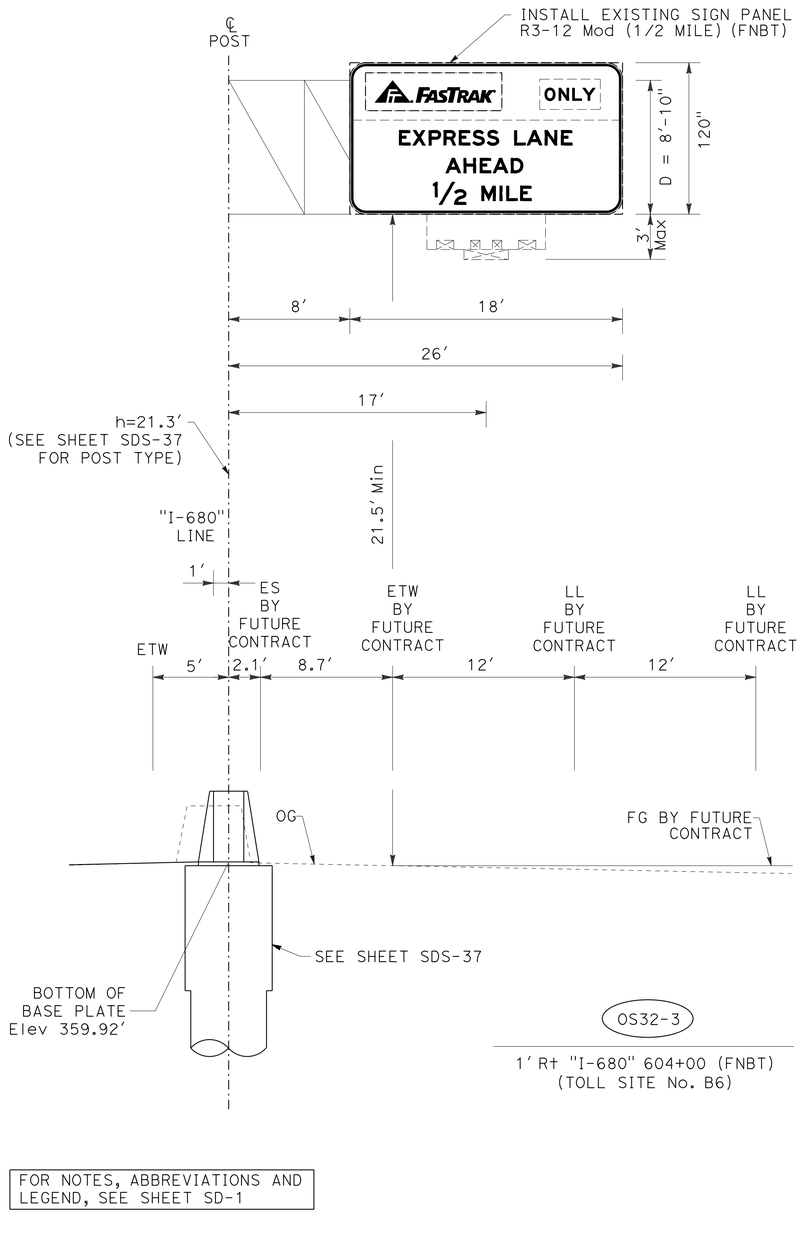
October 8, 2021
PLANS APPROVAL DATE

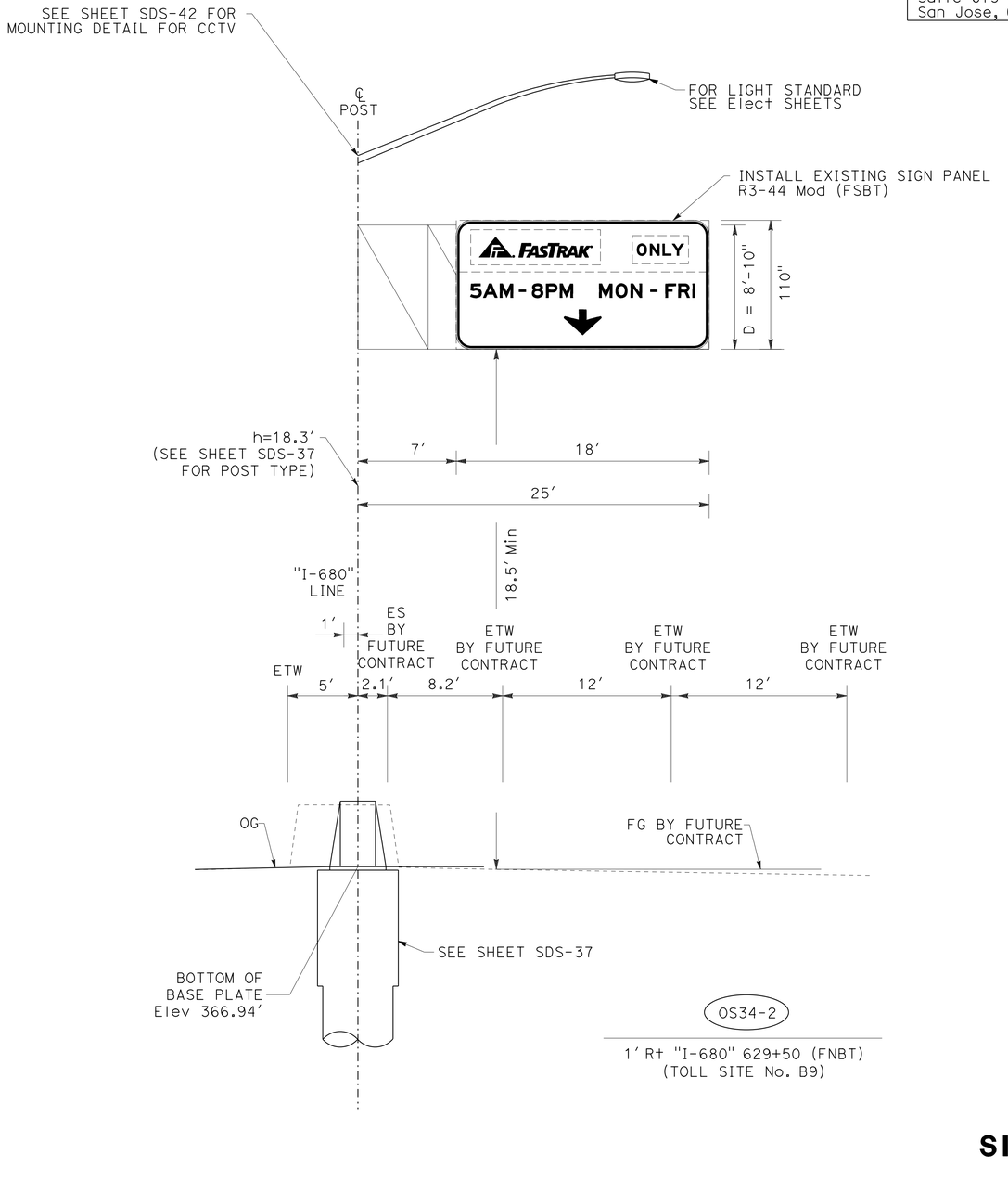
REGISTERED PROFESSIONAL ENGINEER
Abhijeet R. Bhoi
No. 68606
Exp. 9-30-23
CIVIL
STATE OF CALIFORNIA

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SD-1

# SIGN DETAILS

NO SCALE

SD-18

| REVISED BY | DATE REVISED |
|---|---|
| SS | 9-29-21 |

CALCULATED-DESIGNED BY: SHRUTI SHAH/ JOSE CORONEL
CHECKED BY: TIANHUA SUN
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

O:\6030\DRAFTING\FINAL_PS&E\04200002350b018.dgn

LAST REVISION | DATE PLOTTED => 7-MAR-2022
09-29-21 | TIME PLOTTED => 14:54

BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 04200002350b018.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 903 | 1710 |

ARBhoi
REGISTERED CIVIL ENGINEER — 9-29-21 DATE

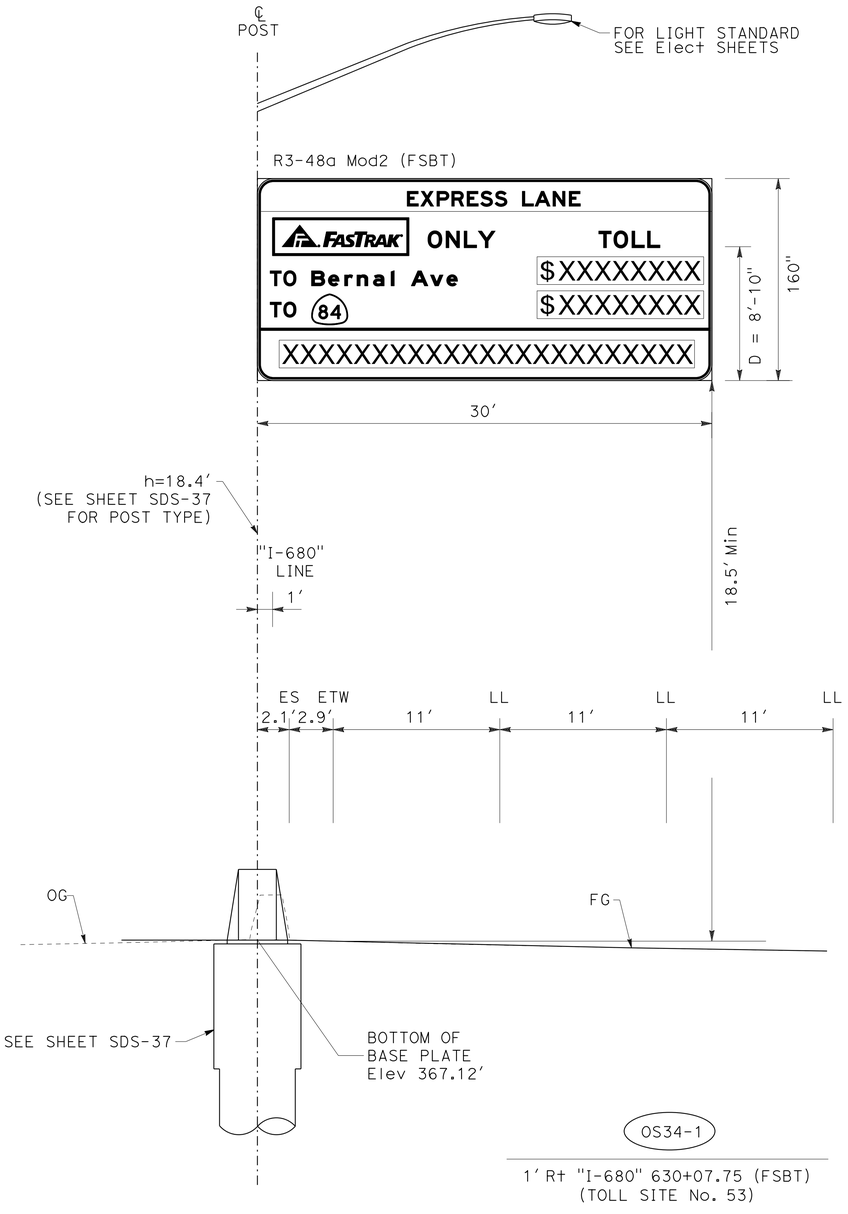
October 8, 2021
PLANS APPROVAL DATE

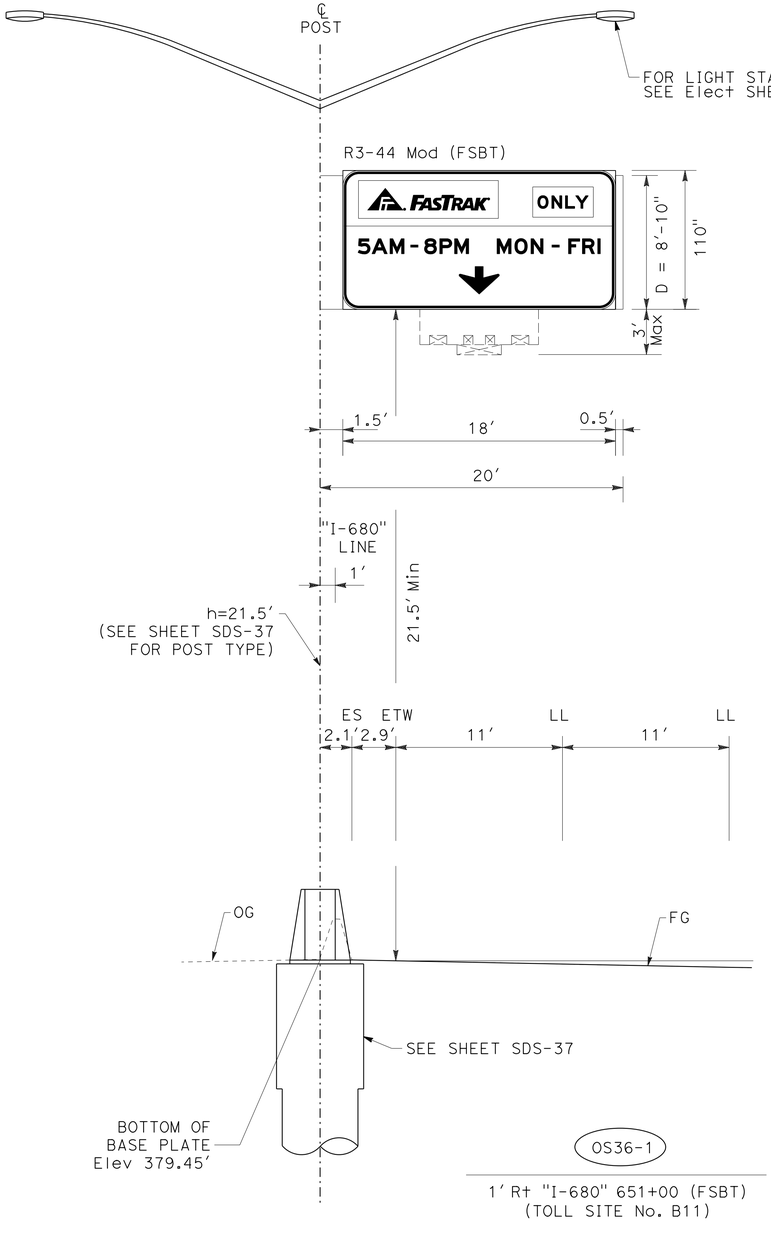
Abhijeet R. Bhoi
No. 68606
Exp. 9-30-23
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SD-1

# SIGN DETAILS

NO SCALE

**SD-19**

| REVISED BY | DATE REVISED |
|---|---|
| SS | 9-29-21 |

CALCULATED-DESIGNED BY: SHRUTI SHAH/ JOSE CORONEL
CHECKED BY: TIANHUA SUN
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI

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Caltrans

LAST REVISION | DATE PLOTTED => 7-MAR-2022
09-29-21 | TIME PLOTTED => 14:54

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BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 04200002350b019.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 904 | 1710 |

ARBhoi
REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

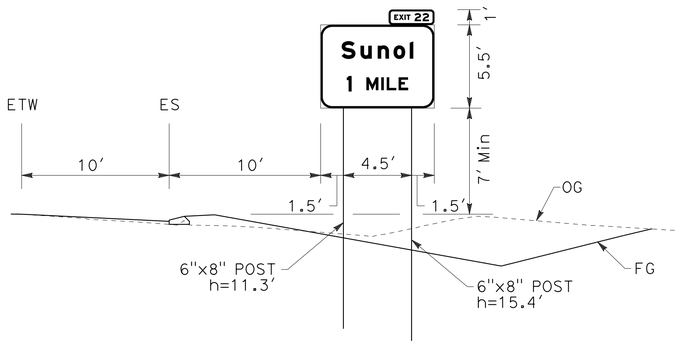
Abhijeet R. Bhoi, No. 68606, Exp. 9-30-23, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

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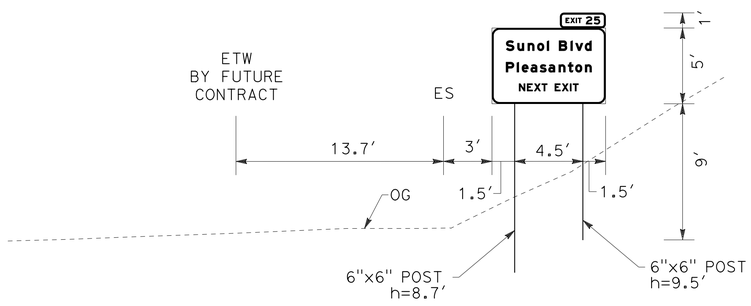

E1-5P Mod
G83-1 (CA) Mod




S6-2

"I-680" 228+22 (FSBT)

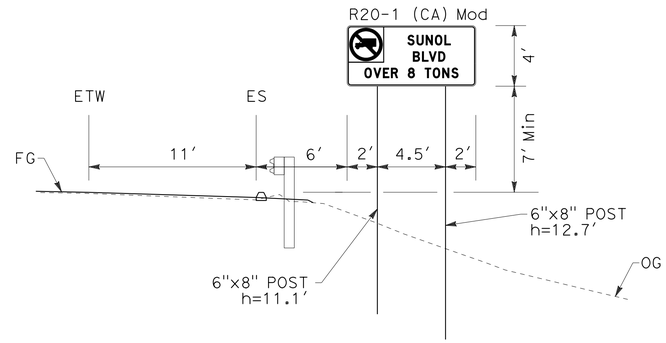
E1-5P Mod
G86-5 (CA) Mod




S9-1

"I-680" 273+50 (FNBT)

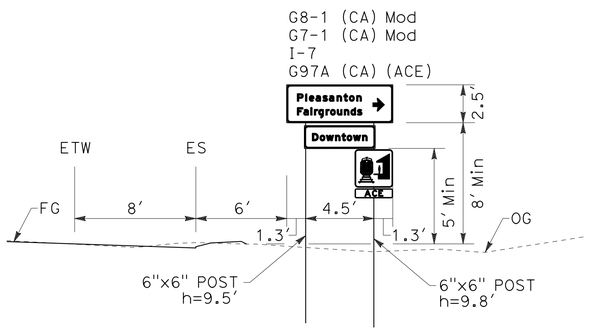
R20-1 (CA) Mod




S15-1

"I-680" 359+58 (FSBT)

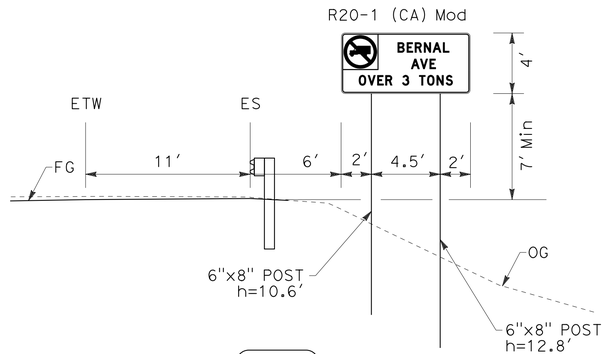
G8-1 (CA) Mod
G7-1 (CA) Mod
I-7
G97A (CA) (ACE)




S17-13

"SBO" 21+00 (FSBT)

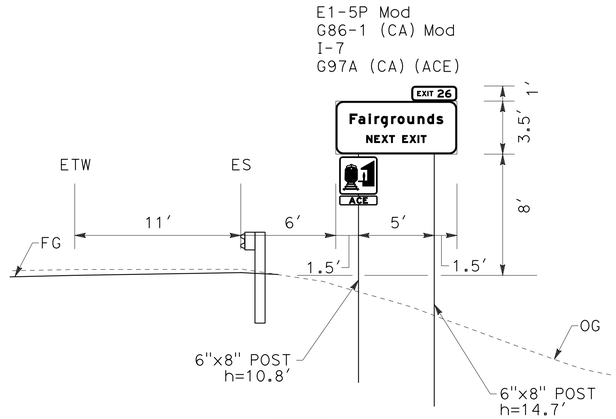
R20-1 (CA) Mod




S18-3

"I-680" 405+74 (FSBT)

E1-5P Mod
G86-1 (CA) Mod
I-7
G97A (CA) (ACE)




S19-1

"I-680" 413+29 (FSBT)

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SD-1

# SIGN DETAILS

NO SCALE

SD-20

| REVISED BY | DATE REVISED |
|---|---|
| SS | 9-29-21 |

SHRUTI SHAH/
JOSE CORONEL
TIANHUA SUN

CALCULATED-DESIGNED BY
CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR
ABHIJEET R. BHOI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 09-29-21
DATE PLOTTED => 7-MAR-2022
TIME PLOTTED => 14:54

BORDER LAST REVISED 7/2/2010
USERNAME => p302438
DGN FILE => 04200002350b020.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0733
PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 905 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

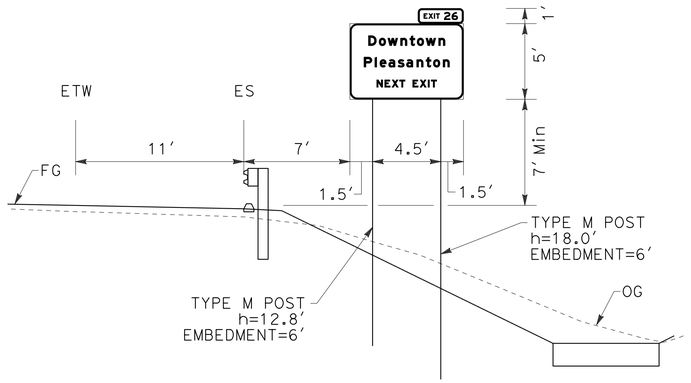
REGISTERED PROFESSIONAL ENGINEER
Abhijeet R. Bhoi
No. 68606
Exp. 9-30-23
CIVIL
STATE OF CALIFORNIA

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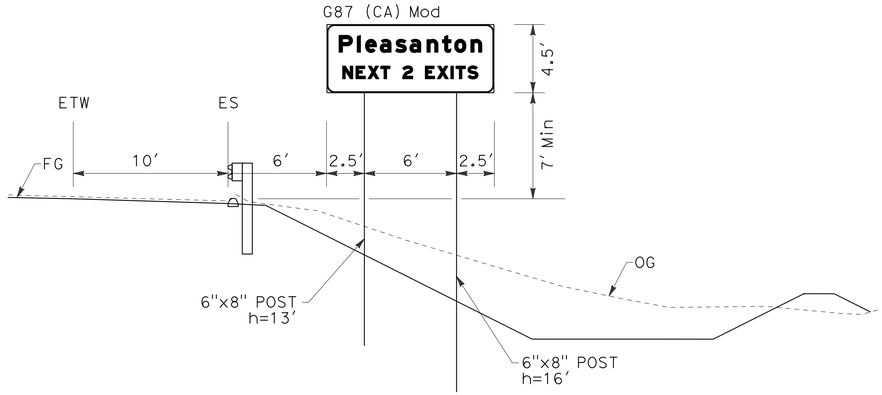
E1-5P Mod
G86-5 (CA) Mod




S21-1

"I-680" 439+64 (FSBT)

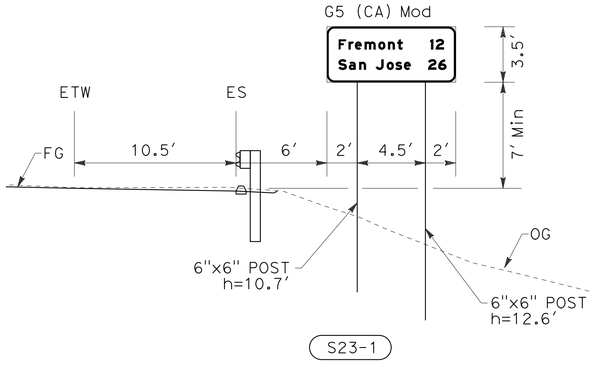
G87 (CA) Mod




S22-1

"I-680" 457+60 (FSBT)

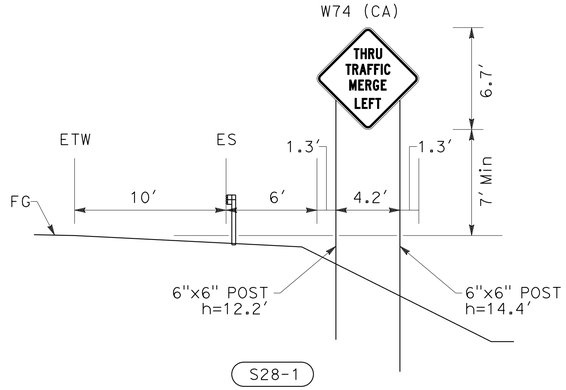
G5 (CA) Mod




S23-1

"I-680" 466+38 (FSBT)

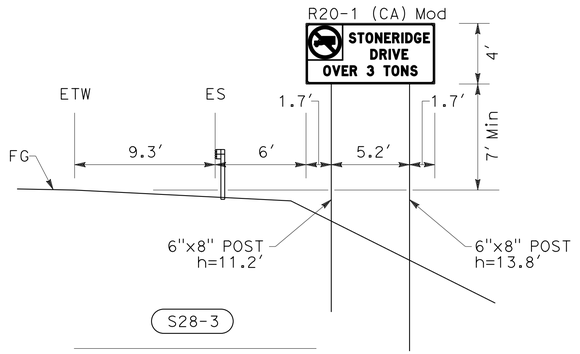
W74 (CA)




S28-1

"I-680" 544+23 (FSBT)

R20-1 (CA) Mod




S28-3

"I-680" 547+80 (FSBT)

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SD-1

# SIGN DETAILS

NO SCALE

**SD-21**

| REVISED BY | DATE REVISED |
|---|---|
| SS | 9-29-21 |

CALCULATED-DESIGNED BY: SHRUTI SHAH/ JOSE CORONEL
CHECKED BY: TIANHUA SUN

CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION | DATE PLOTTED => 7-MAR-2022
09-29-21 | TIME PLOTTED => 14:55

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BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 04200002350b021.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 906 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

Abhijeet R. Bhoi No. 68606 Exp. 9-30-23 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

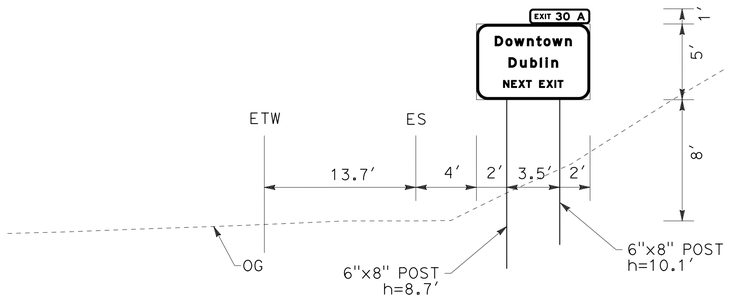
October 8, 2021
PLANS APPROVAL DATE

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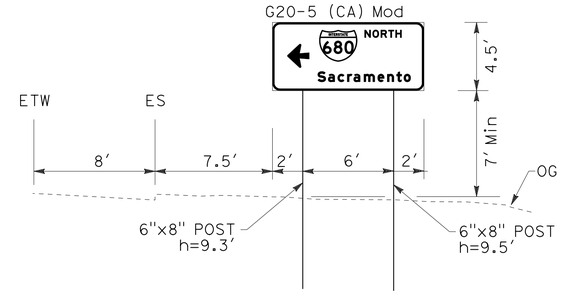
E1-5P Mod
G86-5 (CA) Mod




S34-3

"I-680" 633+48 (FSBT)

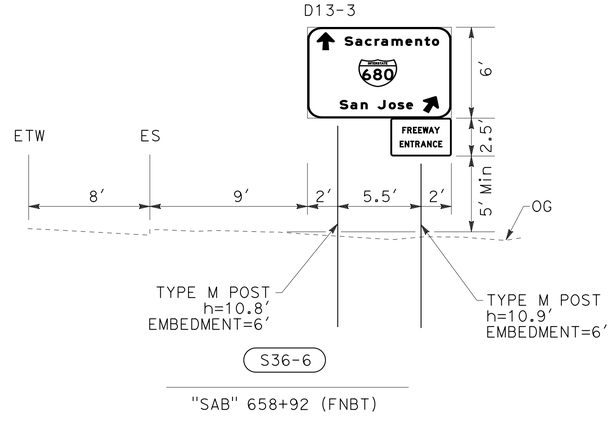
G20-5 (CA) Mod




S36-1

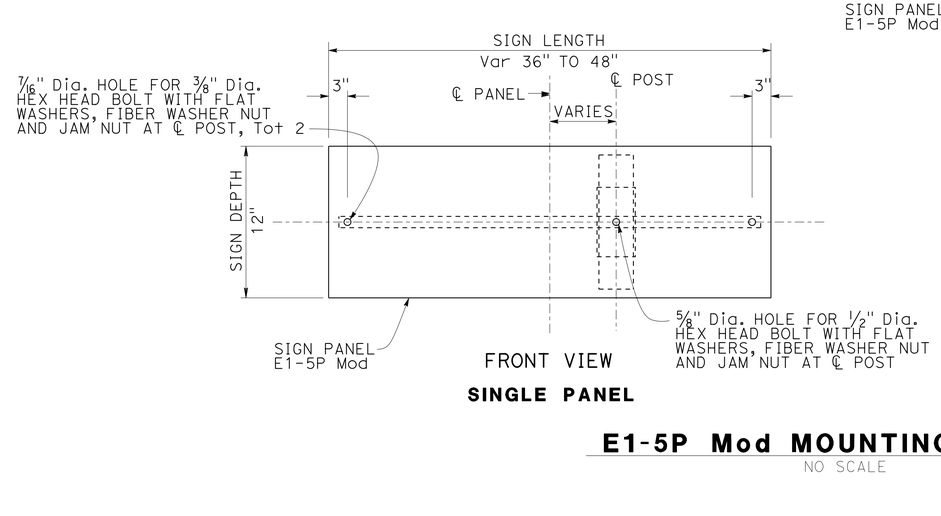
"SAB" 658+42 (FNBT)

G77-7 (CA) Mod
D13-3

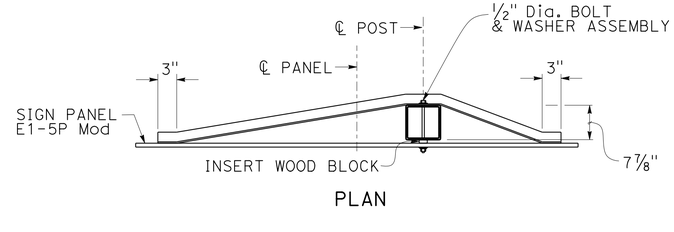



S36-6

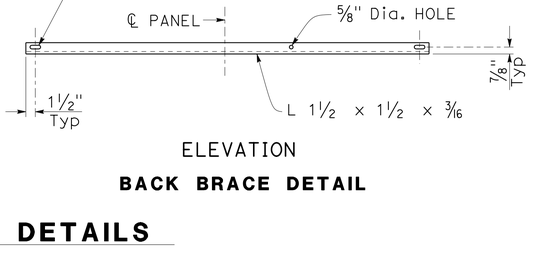
"SAB" 658+92 (FNBT)




FRONT VIEW
**SINGLE PANEL**




PLAN




ELEVATION
**BACK BRACE DETAIL**

## E1-5P Mod MOUNTING DETAILS
NO SCALE

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SD-1

# SIGN DETAILS
NO SCALE

**SD-22**

| | | |
|---|---|---|
| CALCULATED-DESIGNED BY | | |
| CHECKED BY | | |
| SHRUTI SHAH/ JOSE CORONEL | SS | 9-29-21 |
| TIANHUA SUN | REVISED BY | DATE REVISED |

CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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LAST REVISION | DATE PLOTTED => 7-MAR-2022
09-29-21 | TIME PLOTTED => 14:55

BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 04200002350b022.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 907 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

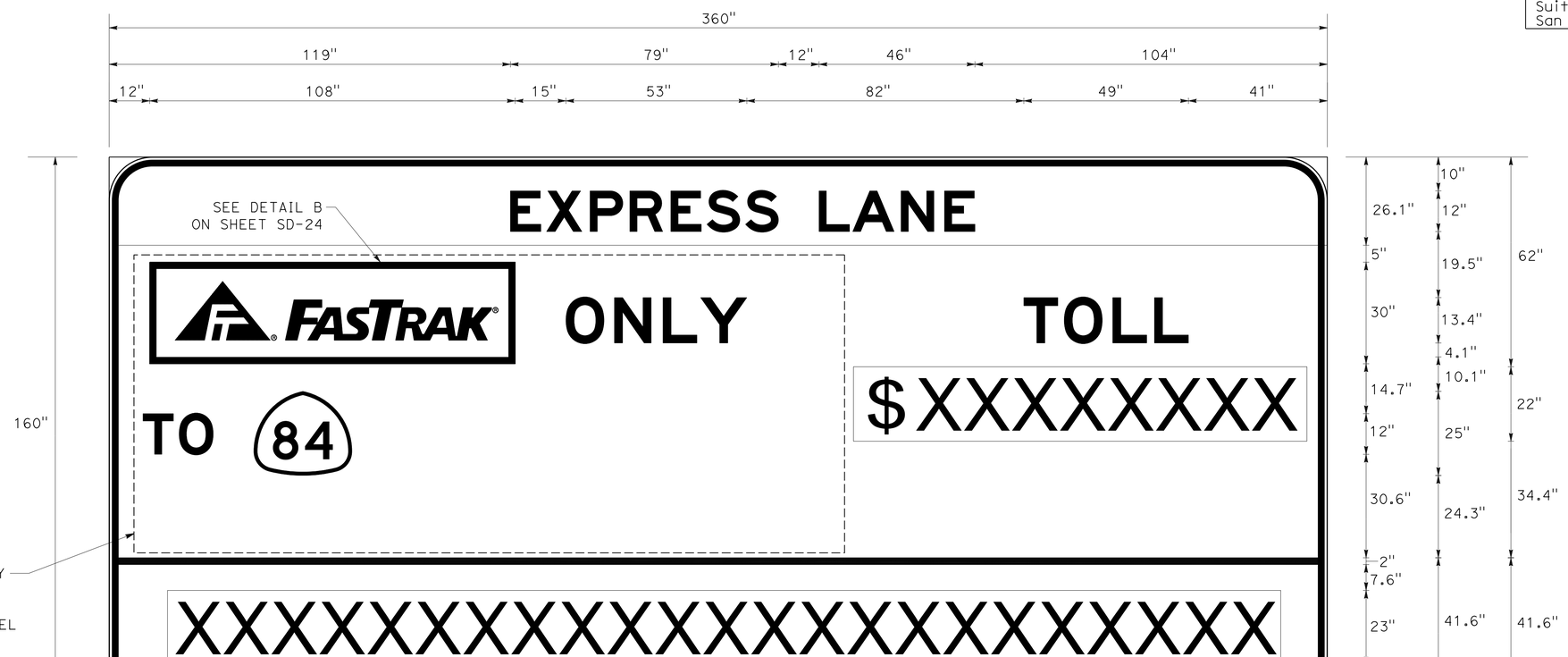
REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi — No. 68606 — Exp. 9-30-23 — CIVIL — STATE OF CALIFORNIA

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R3-48a Mod1




12.0" RADIUS, 2.0" BORDER, 0.8" INDENT, WHITE ON GREEN;
[EXPRESS LANE] E;
12.0" RADIUS, 2.0" BORDER, 0.8" INDENT, BLACK ON WHITE;
[ONLY] E; [TOLL] E;
[TO] E;

OS3-1 OS10-1 OS15-1

FOR NOTES, SEE SHEET SD-1

# SIGN DETAILS

NO SCALE

SD-23

REVISED BY: SS — DATE REVISED: 9-29-21
CALCULATED-DESIGNED BY: JOSE CORONEL — CHECKED BY: SHRUTI SHAH
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION: 09-29-21
DATE PLOTTED => 7-MAR-2022
TIME PLOTTED => 14:55

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BORDER LAST REVISED 7/2/2010
USERNAME => p302438
DGN FILE => 04200002350b023.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0733
PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 908 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi — No. 68606 — Exp. 9-30-23 — CIVIL — STATE OF CALIFORNIA

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Suite 675
San Jose, CA 95113

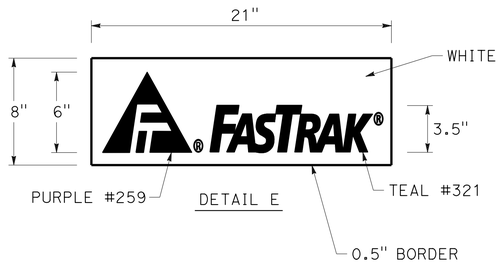
ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607

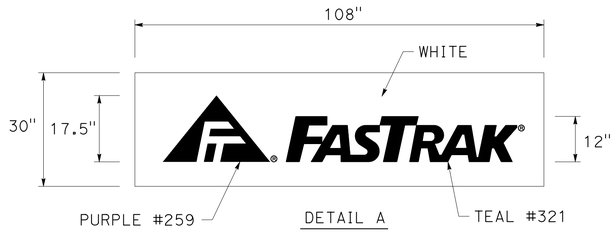

R3-44 Mod

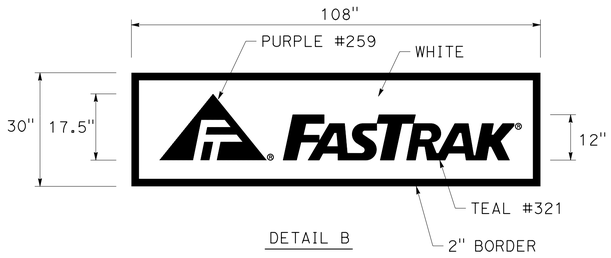



2.0" INNER BORDER WHITE, 12.0" RADIUS, 0.8" INDENT, WHITE ON PURPLE;
RECTANGLE, PURPLE/TEAL ON WHITE; [FASTRAK] GRAPHIC;
RECTANGLE, BLACK ON WHITE; [ONLY] E;
12.0" RADIUS, 2.0" BORDER, 0.8" INDENT, BLACK ON WHITE;
[5AM-8PM] E; [MON - FRI] E; DOWN ARROW 22.0" 270°;

OS6-1 OS8-1 OS13-1 OS18-1 OS20-1 OS22-1 OS29-1
OS32-2 OS36-1







FOR NOTES, SEE SHEET SD-1

# SIGN DETAILS

NO SCALE

**SD-24**

| | |
|---|---|
| REVISED BY | SS |
| DATE REVISED | 9-29-21 |
| CALCULATED-DESIGNED BY | JOSE CORONEL |
| CHECKED BY | SHRUTI SHAH |
| CONSULTANT FUNCTIONAL SUPERVISOR | ABHIJEET R. BHOI |

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 7-MAR-2022
09-29-21 TIME PLOTTED => 14:55

O:\0030\DRAFTING\FINAL_PS&E\04200002350b024.dgn

BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 04200002350b024.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 909 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

Abhijeet R. Bhoi, No. 68606, Exp. 9-30-23, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

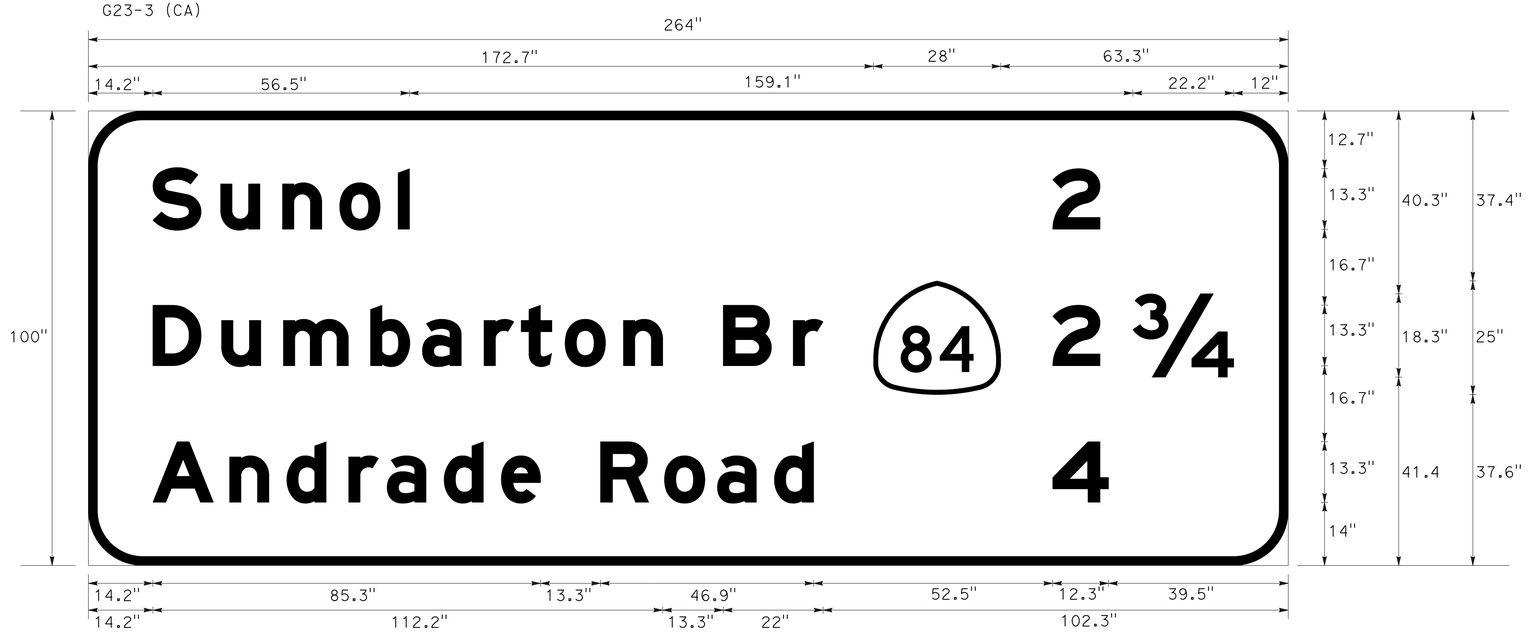
October 8, 2021
PLANS APPROVAL DATE

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*


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Oakland, CA 94607

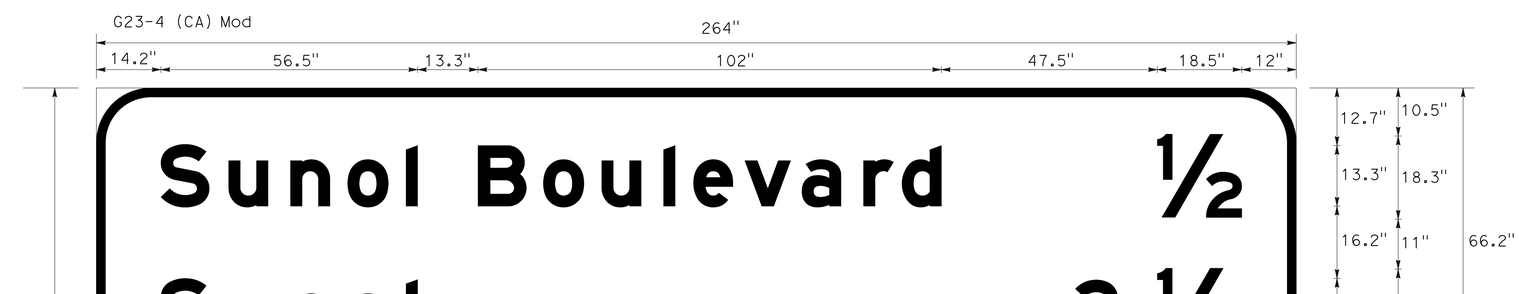

G23-3 (CA)




12.0" RADIUS, 2.0" BORDER, WHITE ON GREEN;
[Sunol Exit] E Mod; [2] E;
[Dumbarton Br] E Mod; [2 ¾] E;
[Andrade Road] E Mod; [4] E;

OS9-1

G23-4 (CA) Mod




12.0" RADIUS, 2.0" BORDER, WHITE ON GREEN;
[Sunol Boulevard] E Mod; [½] E;
[Sunol Exit] E Mod; [3 ¼] E;
[Dumbarton Br] E Mod; [4] E;

OS14-2

# SIGN DETAILS

NO SCALE

**SD-25**

| REVISED BY | DATE REVISED |
|---|---|
| SS | 9-29-21 |

CALCULATED-DESIGNED BY: JOSE CORONEL
CHECKED BY: SHRUTI SHAH
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION | DATE PLOTTED => 7-MAR-2022
09-29-21 | TIME PLOTTED => 14:55

O:\0030\DRAFTING\FINAL_PS&E\042000235ob025.dgn

BORDER LAST REVISED 7/2/2010

USERNAME => p302438
DGN FILE => 0420000235ob025.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0733

PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 910 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

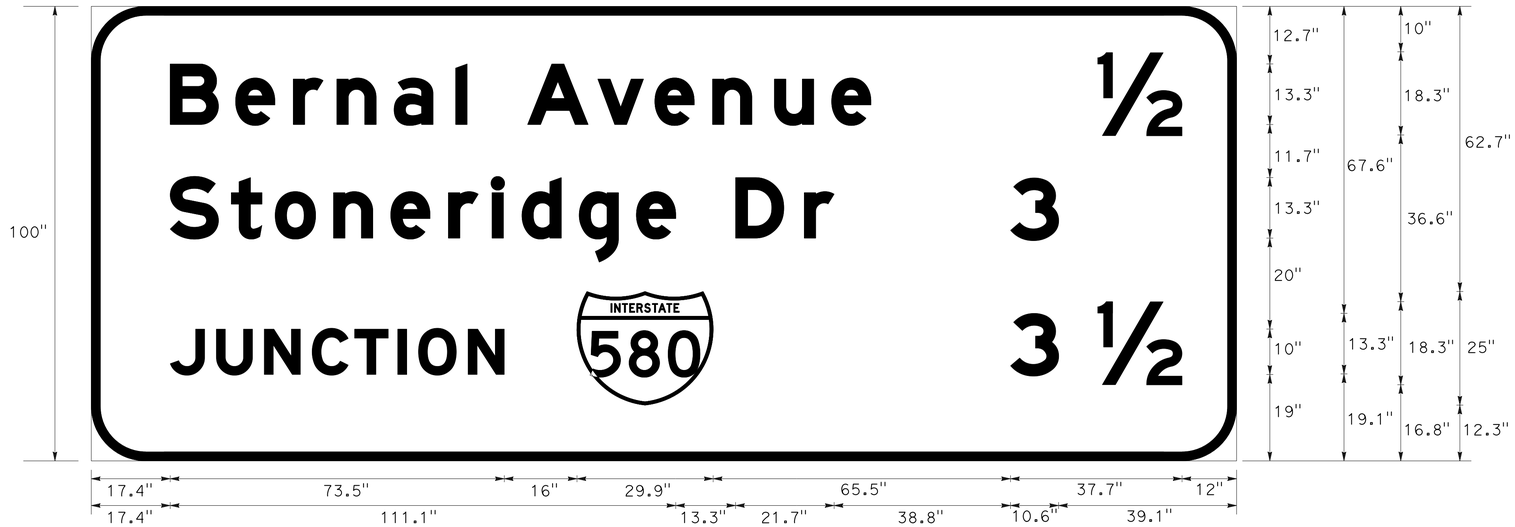
REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi — No. 68606 — Exp. 9-30-23 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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1111 Broadway
Suite 800
Oakland, CA 94607

G23-4 (CA)




12.0" RADIUS, 2.0" BORDER, WHITE ON GREEN;
[Bernal Avenue] E Mod; [½] E;
[Stoneridge Dr] E Mod; [3] E;
[JUNCTION] E Mod; [3 ½] E;

OS14-3

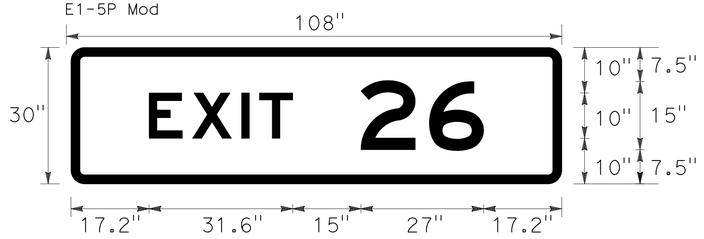
G86-14 (CA) Mod




12.0" RADIUS, 2.0" BORDER, WHITE ON GREEN
[Bernal Avenue] E Mod;
[Pleasanton] E Mod;
[NEXT EXIT] E;

OS19-2

E1-5P Mod




3.0" RADIUS, 2.0" BORDER, WHITE ON GREEN;
[EXIT] E 107% SPACING;
[26] E;

OS19-2

## SIGN DETAILS
NO SCALE

SD-26

| REVISED BY | DATE REVISED |
|---|---|
| SS | 9-29-21 |

JOSE CORONEL — CALCULATED-DESIGNED BY
SHRUTI SHAH — CHECKED BY
ABHIJEET R. BHOI — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

O:\0030U\DRAFTING\FINAL_PS&E\04200002351ob026.dgn

LAST REVISION | DATE PLOTTED => 7-MAR-2022
09-29-21 | TIME PLOTTED => 14:55

BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 04200002351ob026.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 911 | 1710 |

ARBhoi
REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

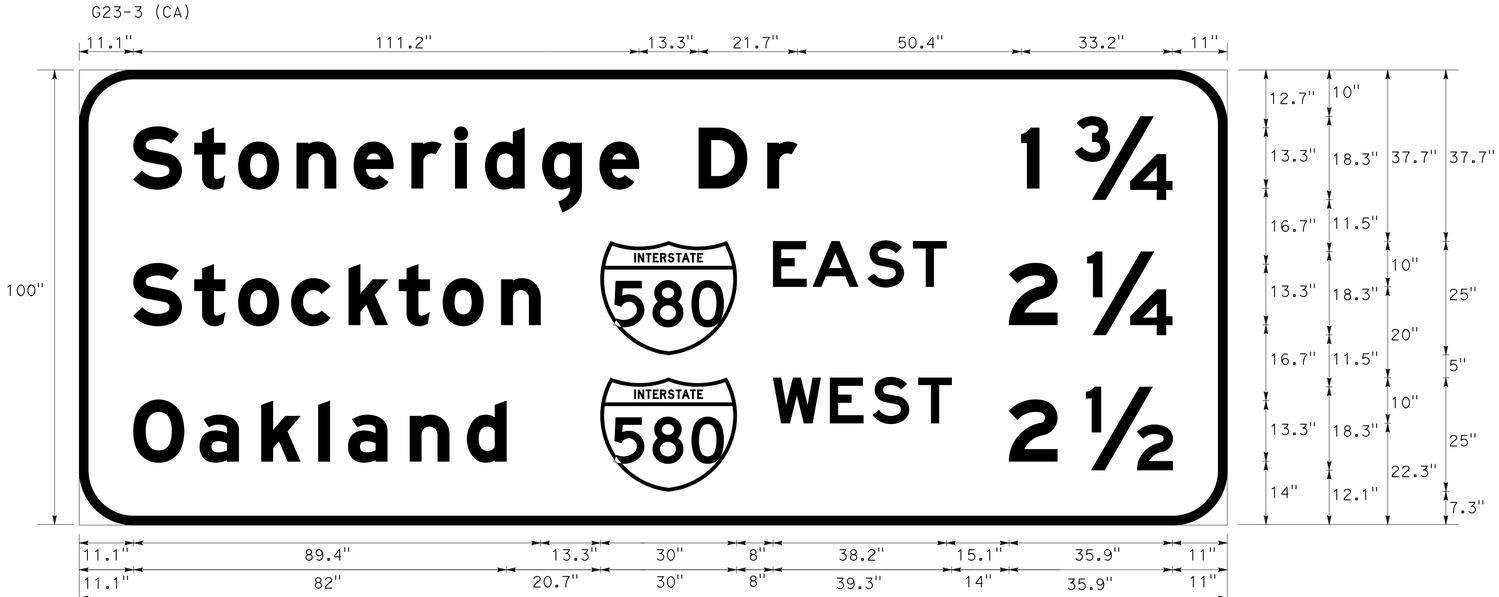
REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi — No. 68606 — Exp. 9-30-23 — CIVIL — STATE OF CALIFORNIA

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1111 Broadway
Suite 800
Oakland, CA 94607


G23-3 (CA)




12.0" RADIUS, 2.0" BORDER, WHITE ON GREEN;
[Stoneridge Dr] E Mod; [1 ¾] E Mod;
[Stockton] E Mod; [EAST] E; [2 ¼] E Mod;
[Oakland] E Mod; [WEST] E; [2 ½] E Mod;

OS19-3

# SIGN DETAILS

NO SCALE

**SD-27**

| REVISED BY | DATE REVISED |
|---|---|
| SS | 9-29-21 |

JOSE CORONEL — CALCULATED-DESIGNED BY
SHRUTI SHAH — CHECKED BY
ABHIJEET R. BHOI — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 09-29-21
DATE PLOTTED => 7-MAR-2022
TIME PLOTTED => 14:55

O:\0030U\DRAFTING\FINAL_PS&E\04200002350b027.dgn

BORDER LAST REVISED 7/2/2010
USERNAME => p302438
DGN FILE => 04200002350b027.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0733
PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 912 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

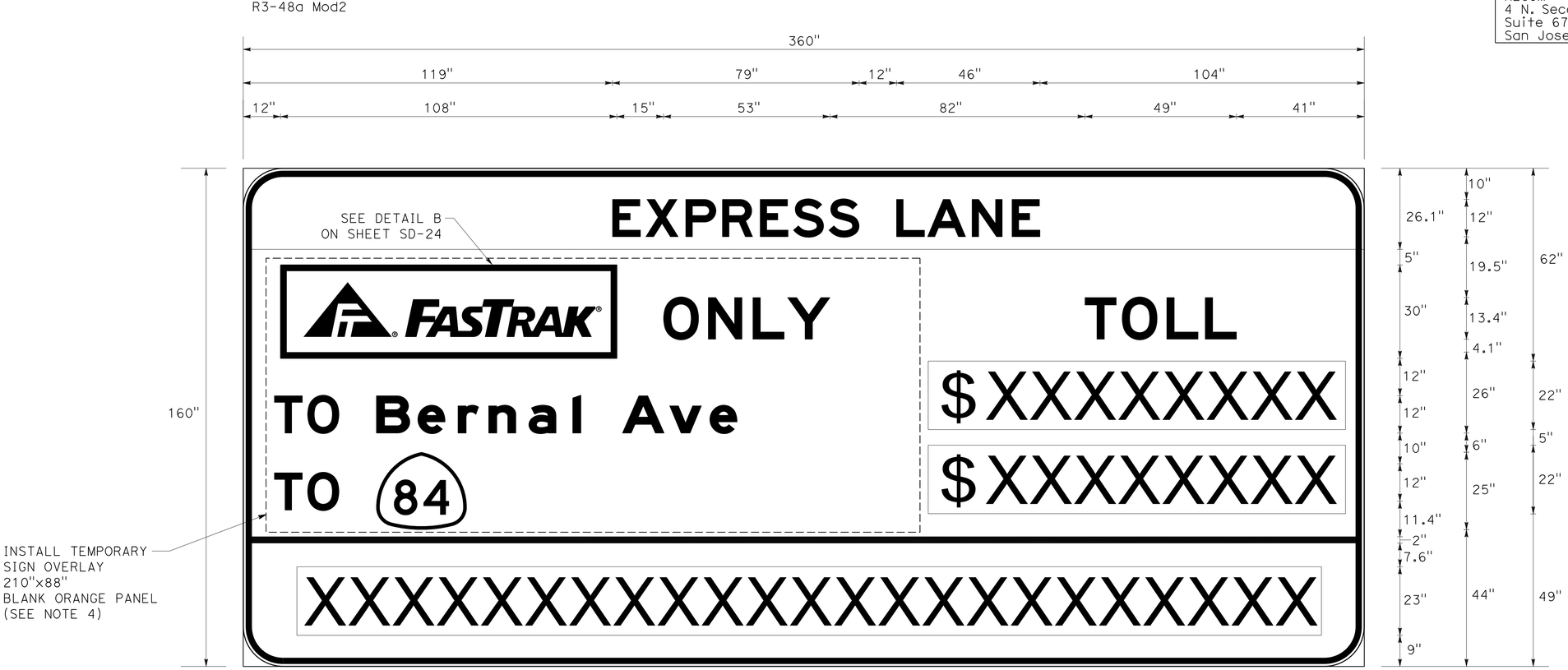
REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi No. 68606 Exp. 9-30-23 CIVIL — STATE OF CALIFORNIA

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R3-48a Mod2




12.0" RADIUS, 2.0" BORDER, 0.8" INDENT, WHITE ON GREEN;
[EXPRESS LANE] E;
12.0" RADIUS, 2.0" BORDER, 0.8" INDENT, BLACK ON WHITE;
[ONLY] E; [TOLL] E;
[TO] E; [Bernal Ave] E MOD;
[TO] E;

OS25-1 OS28-5 OS34-1

FOR NOTES, SEE SHEET SD-1

## SIGN DETAILS
NO SCALE

**SD-28**

| | | | |
|---|---|---|---|
| REVISED BY | SS | LAST REVISION | DATE PLOTTED => 7-MAR-2022 |
| DATE REVISED | 9-29-21 | | TIME PLOTTED => 14:55 |
| CALCULATED-DESIGNED BY | JOSE CORONEL | | 09-29-21 |
| CHECKED BY | SHRUTI SHAH | | |
| CONSULTANT FUNCTIONAL SUPERVISOR | ABHIJEET R. BHOI | | |

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

O:\0030U\DRAFTING\FINAL_PS&E\04200002350b028.dgn

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 913 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

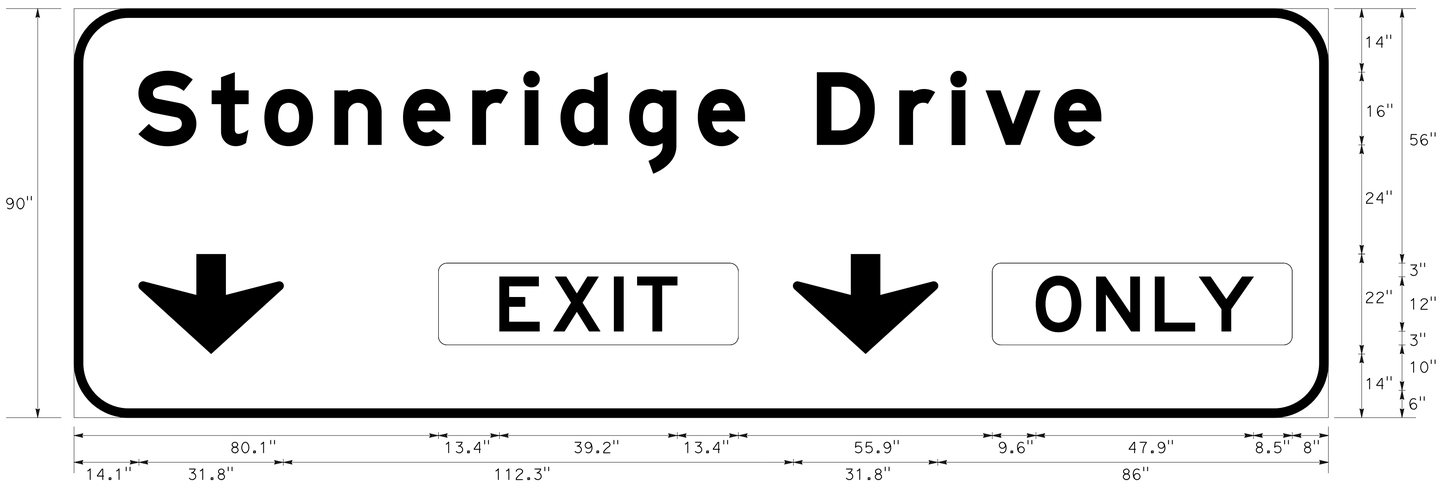
REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi — No. 68606 — Exp. 9-30-23 — CIVIL — STATE OF CALIFORNIA

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4 N. Second Street
Suite 675
San Jose, CA 95113

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607

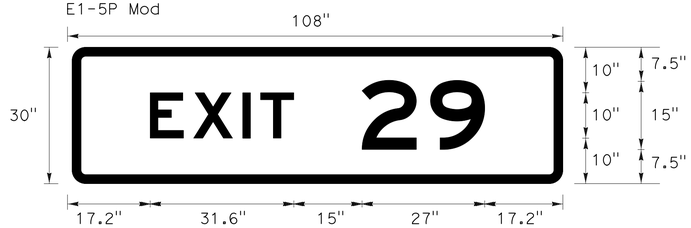

G24-6 (CA) Mod




12.0" RADIUS, 2.0" BORDER, WHITE ON GREEN;
[Stoneridge Drive] E Mod;
1.875" RADIUS, NO BORDER, BLACK ON YELLOW;
[EXIT] E Mod, E11-1a; [ONLY] E Mod, E11-1b;
STANDARD VERTICAL DOWN ARROW 22" 270°

OS28-2

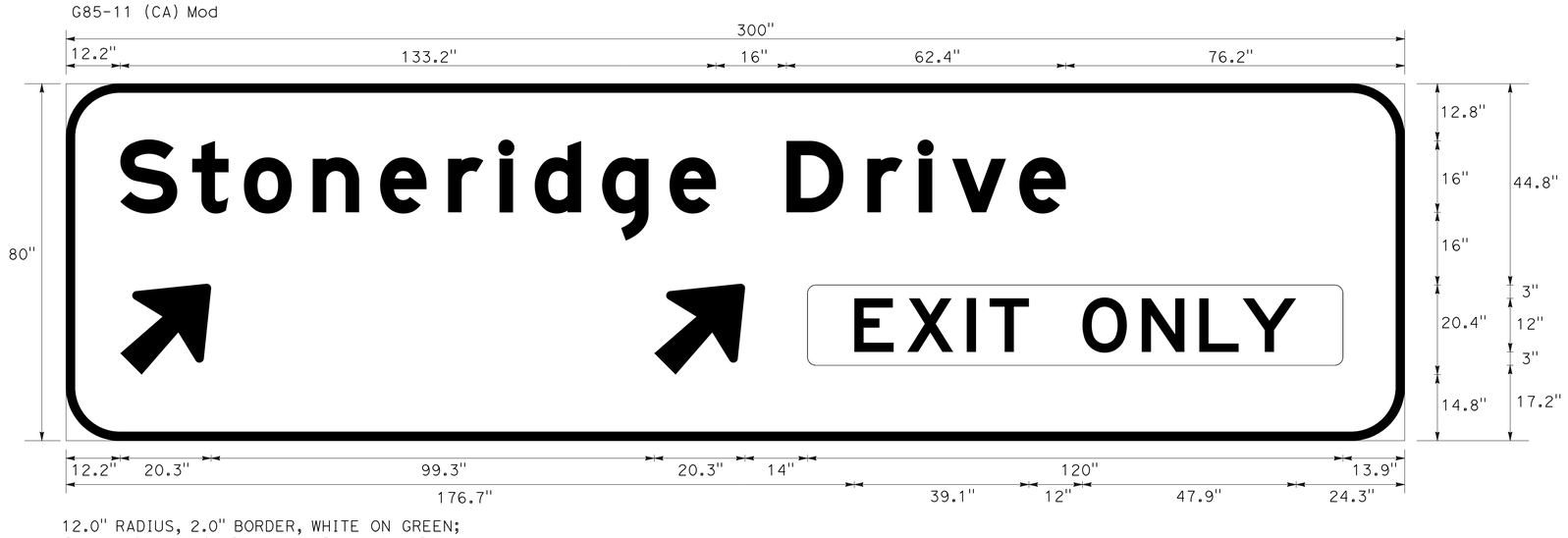
E1-5P Mod




3.0" RADIUS, 2.0" BORDER, WHITE ON GREEN;
[EXIT] E 107% SPACING;
[29] E;

OS28-2 OS28-4

G85-11 (CA) Mod




12.0" RADIUS, 2.0" BORDER, WHITE ON GREEN;
[Stoneridge Drive] E Mod; [EXIT ONLY] E;
STANDARD DIAGONAL ARROW 25" 45°;
1.9" RADIUS, NO BORDER, BLACK ON YELLOW;
[EXIT ONLY] E; E11-1c;

OS28-4

# SIGN DETAILS

NO SCALE

**SD-29**

| REVISED BY | DATE REVISED |
|---|---|
| SS | 9-29-21 |

JOSE CORONEL — CALCULATED-DESIGNED BY
SHRUTI SHAH — CHECKED BY
ABHIJEET R. BHOI — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION | DATE PLOTTED => 7-MAR-2022
09-29-21 | TIME PLOTTED => 14:55

O:\0030U\DRAFTING\FINAL_PS&E\04200002351ob029.dgn

BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 04200002351ob029.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 914 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

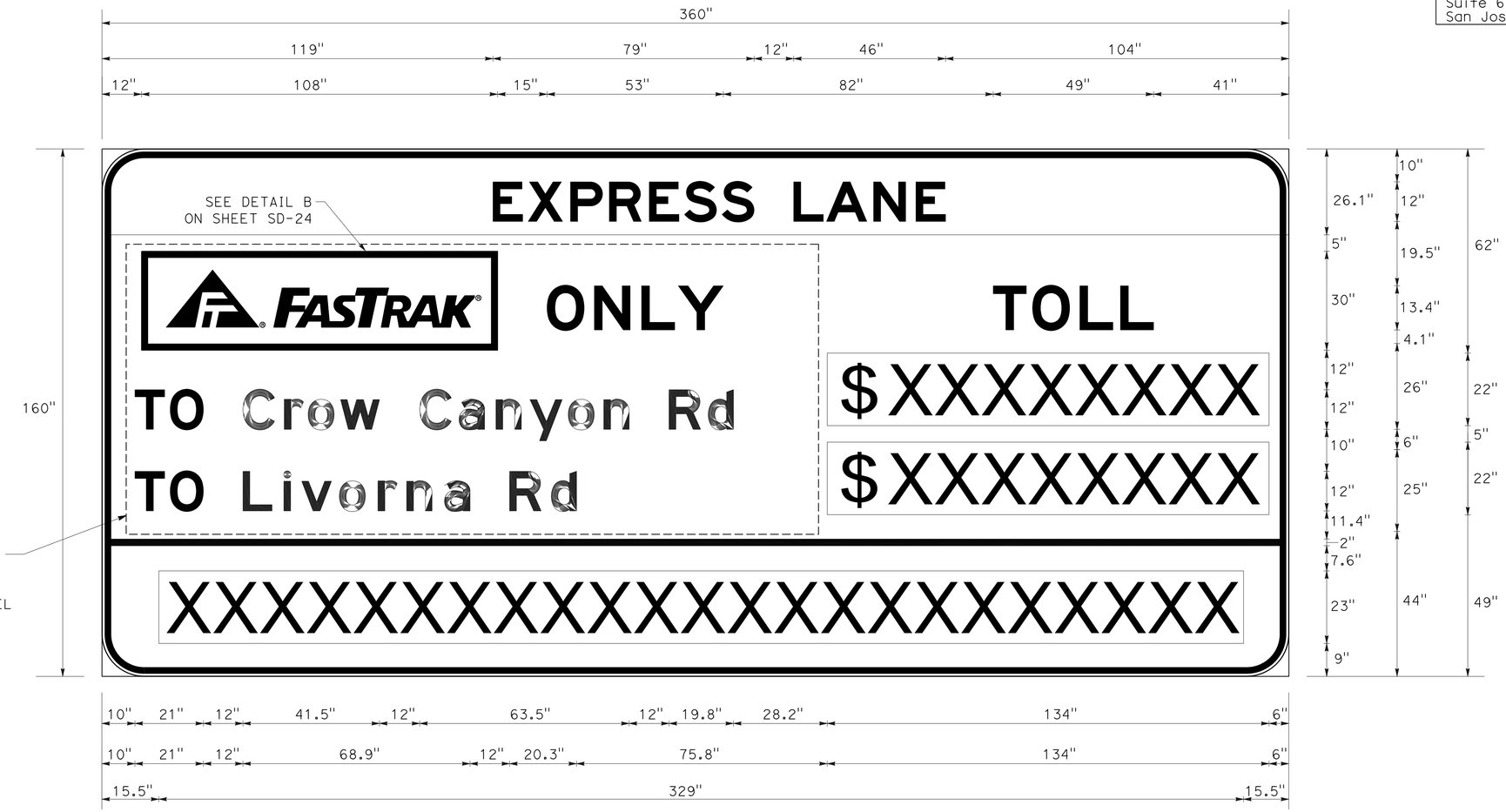
REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi No. 68606 Exp. 9-30-23 CIVIL — STATE OF CALIFORNIA

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1111 Broadway
Suite 800
Oakland, CA 94607


R3-48a Mod3




12.0" RADIUS, 2.0" BORDER, 0.8" INDENT, WHITE ON GREEN;
[EXPRESS LANE] E;
12.0" RADIUS, 2.0" BORDER, 0.8" INDENT, BLACK ON WHITE;
[ONLY] E; [TOLL] E;
[TO] E; [Crow Canyon Rd] E MOD;
[TO] E; [Livorna Rd] E MOD;

OS31-3

# SIGN DETAILS

NO SCALE

SD-30

| REVISED BY | DATE REVISED |
|---|---|
| SS | 9-29-21 |

JOSE CORONEL — CALCULATED-DESIGNED BY
SHRUTI SHAH — CHECKED BY
ABHIJEET R. BHOI — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION | DATE PLOTTED => 7-MAR-2022
09-29-21 | TIME PLOTTED => 14:56

O:\0030U\DRAFTING\FINAL_PS&E\04200002350b030.dgn

BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 0420000235ob030.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 915 | 1710 |

ARBhoi
REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

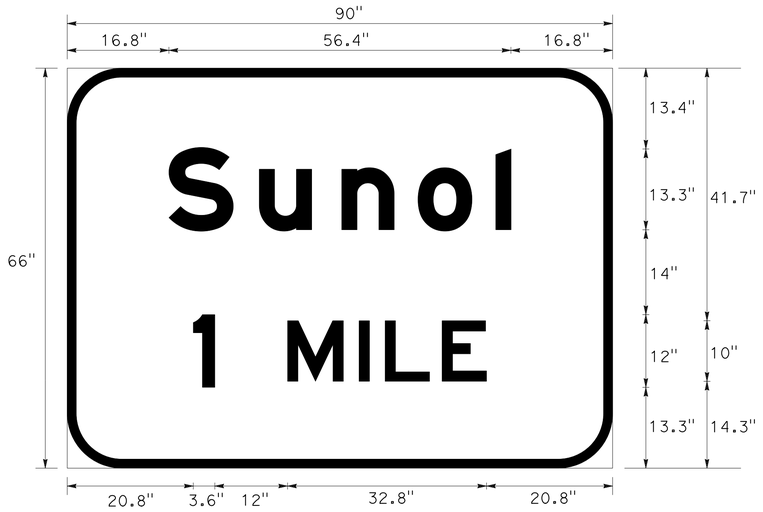
REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi — No. 68606 — Exp. 9-30-23 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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1111 Broadway
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Oakland, CA 94607

G83-1 (CA) Mod




9.0" RADIUS, 1.5" BORDER, WHITE ON GREEN;
[SUNOL] E Mod;
[1 MILE] E;

S6-2

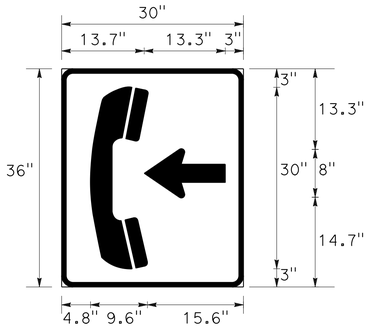
G86-5 (CA) Mod




6.0" RADIUS, 1.25" BORDER, WHITE ON GREEN
[Sunol Blvd] E Mod;
[Pleasanton] E Mod;
[NEXT EXIT] E;

S9-1

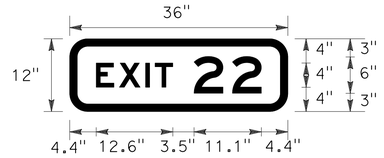
D9-1a (CA) Mod




1.875" RADIUS, 0.75" BORDER, WHITE ON BLUE;
SYMBOL RM150; CUSTOM HORIZONTAL ARROW 13.4" X 8" 180;

S12-3

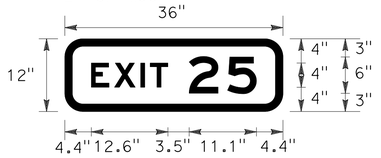
E1-5P Mod




3.0" RADIUS, 1.25" BORDER, WHITE ON GREEN;
[EXIT] E 107% SPACING;
[22] E;

S6-2

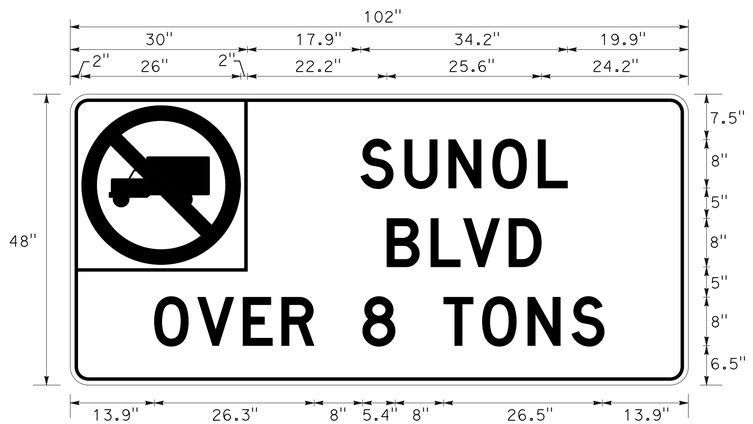
E1-5P Mod




3.0" RADIUS, 1.25" BORDER, WHITE ON GREEN;
[EXIT] E 107% SPACING;
[25] E;

S9-1

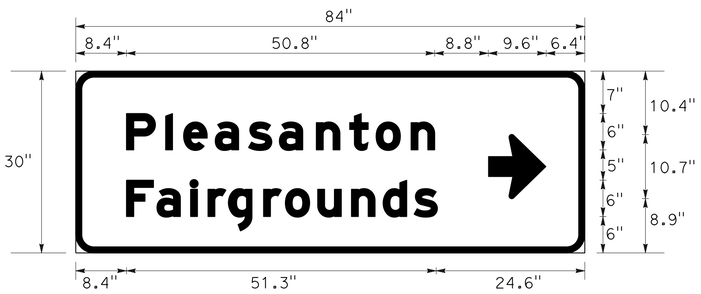
R20-1 (CA) Mod




3.0" RADIUS, 0.75" OUTER BORDER WHITE,
0.5" INNER BORDER BLACK, BLACK ON WHITE;
[SUNOL] D;
[AVE] D;
[OVER 8 TONS] D;
SYMBOL 12T;

S15-1

G8-1 (CA) Mod




3.0" RADIUS, 1.0" BORDER, WHITE ON GREEN;
[PLEASANTON] E Mod;
[FAIRGROUNDS] E Mod;
STANDARD HORIZONTAL ARROW 9.6" 0°;

S17-13

# SIGN DETAILS

NO SCALE

**SD-31**

| REVISED BY | DATE REVISED |
|---|---|
| SS | 9-29-21 |

JOSE CORONEL — CALCULATED-DESIGNED BY
SHRUTI SHAH — CHECKED BY
ABHIJEET R. BHOI — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION — DATE PLOTTED => 7-MAR-2022 — TIME PLOTTED => 14:56
09-29-21

D1:\0030U\DRAFTING\FINAL_PS&E\04200002350b031.dgn

BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 04200002350b031.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 916 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

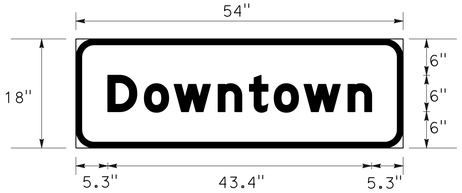
REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi — No. 68606 — Exp. 9-30-23 — CIVIL — STATE OF CALIFORNIA

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

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1111 Broadway
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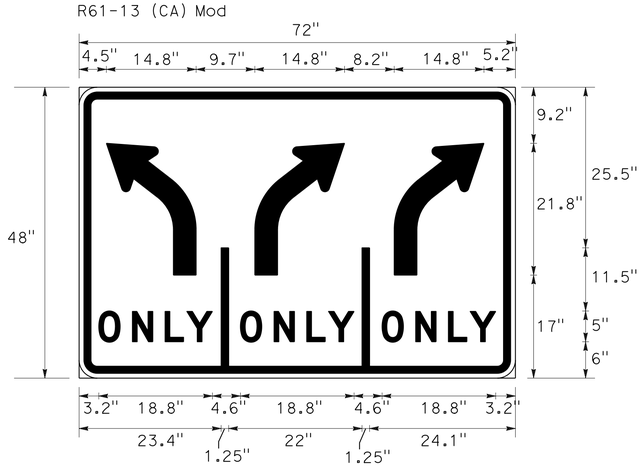
G7-1 (CA) Mod




3.0" RADIUS, 1.0" BORDER, WHITE ON GREEN;
[Downtown] E Mod;

S17-13

R61-13 (CA) Mod




3.0" RADIUS, 1.25" INNER BORDER BLACK,
0.75" OUTER BORDER WHITE, BLACK ON WHITE;
45°ADVANCE TURN ARROW;
315°ADVANCE TURN ARROW;
[ONLY] D;

S17-7 S17-9 S17-11

R20-1 (CA) Mod




3.0" RADIUS, 0.75" OUTER BORDER WHITE,
0.5" INNER BORDER BLACK, BLACK ON WHITE;
[BERNAL] D;
[AVE] D;
[OVER 3 TONS] D;
SYMBOL 12T;

S18-3

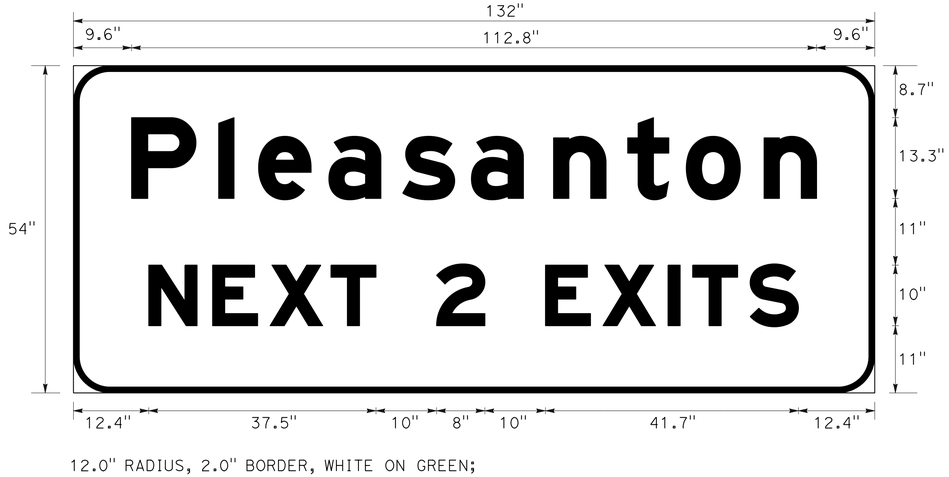
G86-1 (CA) Mod




6.0" RADIUS, 1.25" BORDER, WHITE ON GREEN;
[FAIRGROUNDS] E Mod;
[NEXT EXIT] E Mod;

S19-1

G87 (CA) Mod




12.0" RADIUS, 2.0" BORDER, WHITE ON GREEN;
[FAIRGROUNDS] E Mod;
[NEXT EXIT] E Mod;

S22-1

# SIGN DETAILS
NO SCALE

**SD-32**

REVISED BY: SS — DATE REVISED: 9-29-21
CALCULATED-DESIGNED BY: JOSE CORONEL
CHECKED BY: SHRUTI SHAH
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION: DATE PLOTTED => 7-MAR-2022
TIME PLOTTED => 14:56

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BORDER LAST REVISED 7/2/2010
USERNAME => p302438
DGN FILE => 0420000235ob032.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0733
PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 917 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi — No. 68606 — Exp. 9-30-23 — CIVIL — STATE OF CALIFORNIA

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Oakland, CA 94607

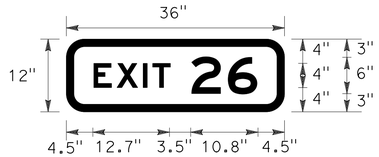

G86-5 (CA) Mod




6.0" RADIUS, 1.25" BORDER, WHITE ON GREEN;
[DOWNTOWN] E Mod;
[PLEASANTON] E Mod;
[NEXT EXIT] E Mod;

S21-1

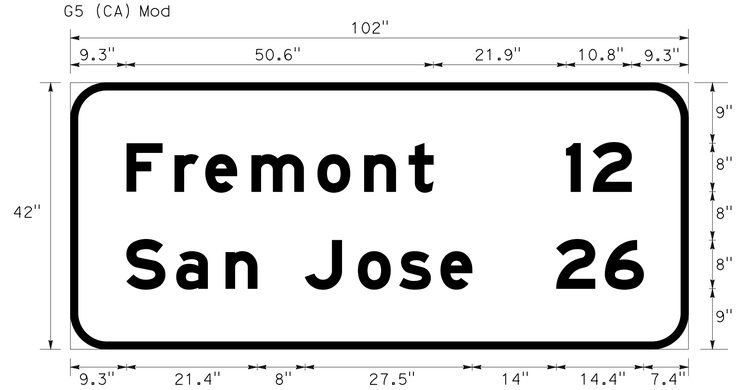
FHWA E1-5P Mod




3.0" RADIUS, 1.25" BORDER, WHITE ON GREEN;
[EXIT] E 107% SPACING;
[26] E;

S19-1 S21-1

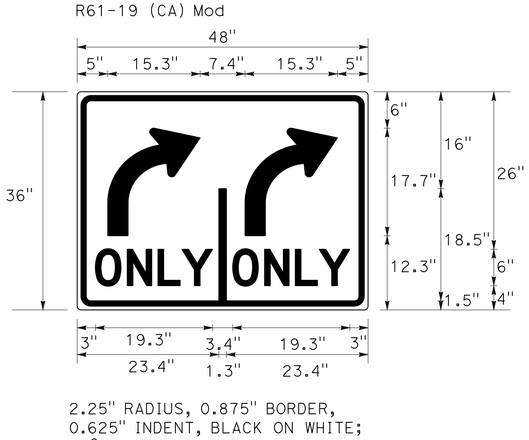
G5 (CA) Mod




6.0" RADIUS, 1.25" BORDER, WHITE ON GREEN
[Fremont] E Mod; [12] E Mod;
[San Jose] E Mod; [26] E Mod;

S23-1

R61-19 (CA) Mod




2.25" RADIUS, 0.875" BORDER,
0.625" INDENT, BLACK ON WHITE;
45°ADVANCE TURN ARROW;
45°ADVANCE TURN ARROW;
[ONLY] D, [ONLY] D;

S27-12

R20-1 (CA) Mod




3.0" RADIUS, 0.5" BORDER, BLACK ON WHITE;
3.0" RADIUS, 0.5" BORDER, BLACK ON WHITE;
[STONERIDGE] D; [DRIVE] D; [OVER 3 TONS] D;
SYMBOL 12T;

S28-3

# SIGN DETAILS

NO SCALE

SD-33

| REVISED BY | SS |
|---|---|
| DATE REVISED | 9-29-21 |
| CALCULATED-DESIGNED BY | JOSE CORONEL |
| CHECKED BY | SHRUTI SHAH |
| CONSULTANT FUNCTIONAL SUPERVISOR | ABHIJEET R. BHOI |

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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LAST REVISION | DATE PLOTTED => 7-MAR-2022
09-29-21 | TIME PLOTTED => 14:56

BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 0420000235ob033.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 918 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

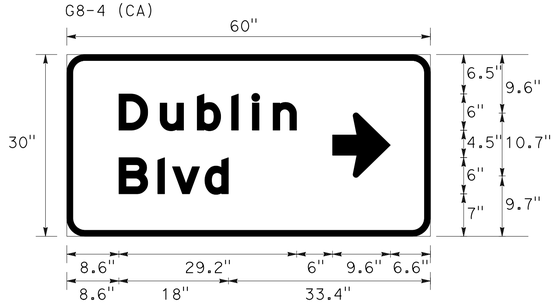
REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi — No. 68606 — Exp. 9-30-23 — CIVIL — STATE OF CALIFORNIA

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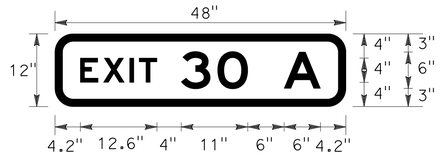
G8-4 (CA)




3.0" RADIUS, 1.0" BORDER, WHITE ON GREEN;
[DUBLIN] E Mod; [BLVD] E Mod;
STANDARD HORIZONTAL ARROW 9.6" 0°;

S30-25

FHWA E1-5P Mod




3.0" RADIUS, 1.25" BORDER, WHITE ON GREEN;
[EXIT] E 107% SPACING;
[30 A] E;

S34-3

G86-5 (CA) Mod




9.0" RADIUS, 2.0" BORDER, WHITE ON GREEN;
[DOWNTOWN] E Mod;
[DUBLIN] E Mod;
[NEXT EXIT] E Mod;

S34-3

G20-5 (CA) Mod




6.0" RADIUS, 1.5" BORDER, WHITE ON GREEN;
[NORTH] E;
[SACRAMENTO] E Mod;
STANDARD HORIZONTAL ARROW 17.25" 180°;

S36-1

G77-7 (CA) Mod




9.0" RADIUS, 1.5" BORDER, WHITE ON GREEN;
[SACRAMENTO] E Mod;
[SAN JOSE] E Mod;
STANDARD VERTICAL ARROW 12.75" 90°;
STANDARD DIAGONAL ARROW 12.75" 60°;

S36-6

# SIGN DETAILS

NO SCALE

**SD-34**

| REVISED BY | DATE REVISED |
|---|---|
| SS | 9-29-21 |

CALCULATED-DESIGNED BY: JOSE CORONEL
CHECKED BY: SHRUTI SHAH
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION | DATE PLOTTED => 7-MAR-2022
09-29-21 | TIME PLOTTED => 14:56

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BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 04200002351ob034.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 919 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

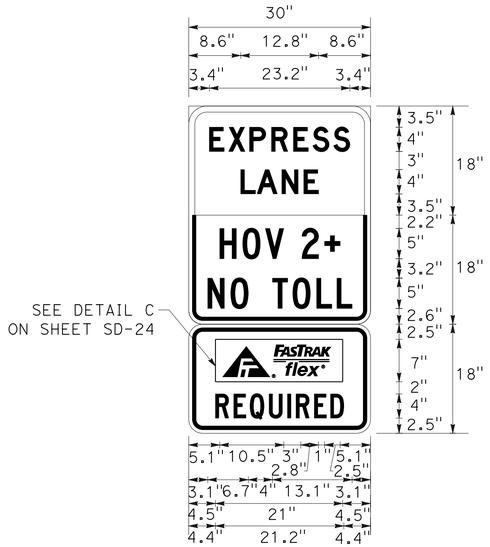
Abhijeet R. Bhoi No. 68606 Exp. 9-30-23 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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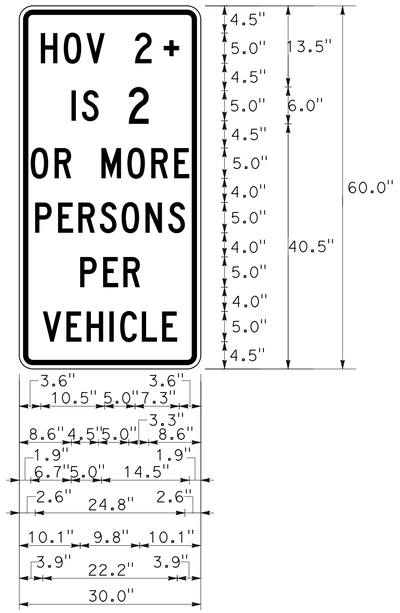

SPECIAL EL




3.0" RADIUS, 1.0" BORDER, WHITE ON GREEN;
[EXPRESS] D; [LANE] D;
2.25" RADIUS, 0.625" BORDER, 0.625" INDENT, BLACK ON WHITE;
[HOV 2+] C; [NO TOLL] C;
2.25" RADIUS, 0.625" BORDER, 0.625" INDENT, BLACK ON WHITE;
[REQUIRED] C;

S2-1 S3-1 S6-5 S7-5 S9-3 S10-2 S13-1
S15-3 S18-5 S20-1 S23-3 S25-3 S28-8 S30-34
S31-2 S32-2 S32-5 S35-1 S38-5

R93-2 (CA) Mod




2.3" RADIUS, 0.875" BORDER, 0.625" INDENT, BLACK ON WHITE;
[HOV 2 +] C; [IS] C; [2] C;
[OR MORE] C; [PERSONS] C;
[PER] C; [VEHICLE] C;

S8-1 S10-1 S12-8 S14-5 S16-4 S17-28 S19-4
S21-4 S23-4 S24-4 S26-3 S28-9 S30-35 S31-3
S33-2 S35-2 S37-1 S37-2 S38-2

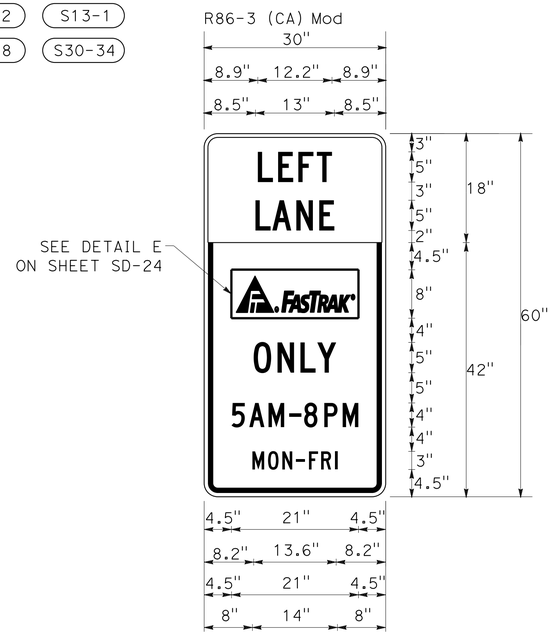
SR50-2 (CA) Mod




2.25" RADIUS, 0.875" BORDER, 0.625" INDENT, BLACK ON WHITE;
[HOV] C 90% SPACING;
[VIOLATION] C 60% SPACING;
[$490] D 90% SPACING;
[MINIMUM] C 108% SPACING;
[FINE] C 107% SPACING;

S11-3 S16-3 S19-3 S27-17
S31-4 S34-5 S36-3

R86-3 (CA) Mod




2.25" RADIUS, 0.625" BORDER, WHITE ON BLACK;
[LEFT] C; [LANE] C;
2.25" RADIUS, 0.875" BORDER, 0.625" INDENT, BLACK ON WHITE;
[ONLY] C; [5AM-8PM] C;
[MON-FRI] C;

S9-2 S12-7 S15-4 S17-27 S21-3 S24-3
S26-4 S27-16 S30-36 S33-1 S37-3 S38-1

# SIGN DETAILS

NO SCALE

**SD-35**

| REVISED BY | SS |
|---|---|
| DATE REVISED | 9-29-21 |
| CALCULATED-DESIGNED BY | JOSE CORONEL |
| CHECKED BY | SHRUTI SHAH |
| CONSULTANT FUNCTIONAL SUPERVISOR | ABHIJEET R. BHOI |

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 7-MAR-2022
TIME PLOTTED => 14:56

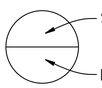
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# INDEX TO PLANS


| SHEET NO. | TITLE |
|---|---|
| SDS-1 | GENERAL NOTES |
| SDS-2 | LOCATION PLAN No. 1 |
| SDS-3 | LOCATION PLAN No. 2 |
| SDS-4 | LOCATION PLAN No. 3 |
| SDS-5 | LOCATION PLAN No. 4 |
| SDS-6 | LOCATION PLAN No. 5 |
| SDS-7 | SIGN OS6-1 (GANTRY) LAYOUT |
| SDS-8 | SIGN OS6-2 (GANTRY) LAYOUT |
| SDS-9 | SIGN OS8-1 (GANTRY) LAYOUT |
| SDS-10 | SIGN OS8-2 (GANTRY) LAYOUT |
| SDS-11 | SIGN OS9-1 (GANTRY) LAYOUT |
| SDS-12 | SIGN OS10-1 (GANTRY) LAYOUT |
| SDS-13 | SIGN OS13-1 (GANTRY) LAYOUT |
| SDS-14 | SIGN OS14-2 (GANTRY) LAYOUT |
| SDS-15 | SIGN OS14-3 (GANTRY) LAYOUT |
| SDS-16 | SIGN OS15-1 (GANTRY) LAYOUT |
| SDS-17 | SIGN OS18-1 (GANTRY) LAYOUT |
| SDS-18 | SIGN OS19-2 (GANTRY) LAYOUT |
| SDS-19 | SIGN OS19-3 (GANTRY) LAYOUT |
| SDS-20 | SIGN OS20-1 (GANTRY) LAYOUT |
| SDS-21 | SIGN OS22-1 (GANTRY) LAYOUT |
| SDS-22 | SIGN OS22-2 (GANTRY) LAYOUT |
| SDS-23 | SIGN OS25-1 (GANTRY) LAYOUT |
| SDS-24 | SIGN OS28-2 (GANTRY) LAYOUT |
| SDS-25 | SIGN OS28-4 (GANTRY) LAYOUT |
| SDS-26 | SIGN OS28-5 (GANTRY) LAYOUT |
| SDS-27 | SIGN OS28-6 (GANTRY) LAYOUT |
| SDS-28 | SIGN OS29-1 (GANTRY) LAYOUT |
| SDS-29 | SIGN OS30-2 (GANTRY) LAYOUT |
| SDS-30 | SIGN OS31-3 (GANTRY) LAYOUT |
| SDS-31 | SIGN OS32-2 (GANTRY) LAYOUT |
| SDS-32 | SIGN OS32-3 (GANTRY) LAYOUT |
| SDS-33 | SIGN OS34-1 (GANTRY) LAYOUT |
| SDS-34 | SIGN OS34-2 (GANTRY) LAYOUT |
| SDS-35 | SIGN OS36-1 (GANTRY) LAYOUT |
| SDS-36 | SIGN DETAILS No. 1 |
| SDS-37 | SIGN DETAILS No. 2 |
| SDS-38 | SIGN DETAILS No. 3 |
| SDS-39 | SIGN DETAILS No. 4 |
| SDS-40 | SIGN DETAILS No. 5 |
| SDS-41 | SIGN DETAILS No. 6 |
| SDS-42 | SIGN DETAILS No. 7 |
| SDS-43 | SIGN DETAILS No. 8 |
| SDS-44 | SITE B10 GANTRY LAYOUT |
| SDS-45 | LOG OF TEST BORINGS (OS6-1) |
| SDS-46 | LOG OF TEST BORINGS (OS6-2) |
| SDS-47 | LOG OF TEST BORINGS (OS8-1 AND OS8-2) |
| SDS-48 | LOG OF TEST BORINGS (OS9-1) |
| SDS-49 | LOG OF TEST BORINGS (OS10-1) |
| SDS-50 | LOG OF TEST BORINGS (OS13-1) |
| SDS-51 | LOG OF TEST BORINGS (OS14-2 AND OS14-3) |
| SDS-52 | LOG OF TEST BORINGS (OS15-1) |
| SDS-53 | LOG OF TEST BORINGS (OS18-1) |
| SDS-54 | LOG OF TEST BORINGS (OS19-2 AND OS19-3) |
| SDS-55 | LOG OF TEST BORINGS (OS20-1) |
| SDS-56 | LOG OF TEST BORINGS (OS22-1 AND OS22-2) |
| SDS-57 | LOG OF TEST BORINGS (OS25-1) |
| SDS-58 | LOG OF TEST BORINGS (OS28-4, OS28-5, AND OS28-6) |
| SDS-59 | LOG OF TEST BORINGS (OS28-2) |
| SDS-60 | LOG OF TEST BORINGS (OS29-1) |
| SDS-61 | LOG OF TEST BORINGS (OS32-2) |
| SDS-62 | LOG OF TEST BORINGS (OS34-1 AND OS34-2) |
| SDS-63 | LOG OF TEST BORINGS (OS30-2 AND OS31-3) |
| SDS-64 | LOG OF TEST BORINGS (OS32-3) |
| SDS-65 | LOG OF TEST BORINGS (OS36-1) |


# STANDARD PLANS DATED 2018

| | |
|---|---|
| A3A | ABBREVIATIONS (SHEET 1 OF 3) |
| A3B | ABBREVIATIONS (SHEET 2 OF 3) |
| A3C | ABBREVIATIONS (SHEET 3 OF 3) |
| A10A | LEGEND LINES AND SYMBOLS (SHEET 1 OF 5) |
| A10B | LEGEND LINES AND SYMBOLS (SHEET 2 OF 5) |
| A76C | CONCRETE BARRIER TYPE 60MF |
| RSP S1 | OVERHEAD SIGNS-TRUSS, INSTRUCTIONS AND EXAMPLES |
| RSP S2 | OVERHEAD SIGNS-TRUSS, SINGLE POST TYPE, POST TYPES II TO IX |
| S3 | OVERHEAD SIGNS-TRUSS, SINGLE POST TYPE, BASE PLATE AND ANCHORAGE DETAILS |
| S4 | OVERHEAD SIGNS-TRUSS, SINGLE POST TYPE, STRUCTURAL FRAME MEMBERS DETAILS No. 1 |
| S5 | OVERHEAD SIGNS-TRUSS, SINGLE POST TYPE, STRUCTURAL FRAME MEMBERS DETAILS No. 2 |
| S6 | OVERHEAD SIGNS-TRUSS, GUSSET PLATE DETAILS |
| S12 | OVERHEAD SIGNS-TRUSS, STRUCTURAL FRAME DETAILS |
| S13 | OVERHEAD SIGNS-TRUSS, FRAME JUNCTURE DETAILS |
| S19 | OVERHEAD SIGNS-TRUSS, SIGN MOUNTING DETAILS, LAMINATED PANEL-TYPE A |
| S50 | OVERHEAD SIGNS - LIGHT WEIGHT EXTINGUISHABLE MESSAGE SIGN AND FLASHING BEACONS |
| S81 | OVERHEAD LAMINATED SIGN-SINGLE OR MULTIPLE PANEL (TYPE A, 1" THICK) |
| S85 | SEAM CLOSURE, "H" SECTION EXTRUSION AND POST SPACING TABLES (MULTI-HORIZONTAL LAMINATED PANEL ALUMINUM SIGNS) |
| S86 | LAMINATED PANEL DETAILS (EXTRUSIONS FOR TYPE A, B AND H PANELS) |
| S87 | TYPE A-1 MOUNTING HARDWARE FOR OVERHEAD LAMINATED TYPE A PANEL (TRUSS AND LIGHTWEIGHT SIGN STRUCTURES) |
| RSP S122 | OVERHEAD SIGNS-VERSATILE TRUSS EXIT PLAQUE MOUNTING DETAILS |
| ES-6B | ELECTRICAL SYSTEMS (ELECTROLIER ANCHORAGE AND GROUTING FOR TYPE 15 AND TYPE 21, BARRIER RAIL MOUNTED) |
| RSP ES-6C | ELECTRICAL SYSTEMS (LIGHTING STANDARD, TYPE 5 AND 10, OVERHEAD SIGN MOUNTED) |
| ES-6D | ELECTRICAL SYSTEMS (LIGHTING STANDARD, TYPES 15D AND 21D, DOUBLE LUMINAIRE MAST ARM) |
| ES-6E | ELECTRICAL SYSTEMS (LIGHTING STANDARD, TYPES 30 AND 31) |
| ES-7H | ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD, CASE 5 SIGNAL MAST ARM LOADING, WIND VELOCITY = 100MPH AND SIGNAL MAST ARM LENGTHS 60′ TO 65′) |
| RSP ES-7M | ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD, DETAIL No. 1) |
| RSP ES-7N | ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD, DETAIL No. 2) |
| RSP ES-7O | ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD, DETAIL No. 3) |
| ES-14C | ELECTRICAL SYSTEMS (EXTINGUISHABLE MESSAGE SIGN ON A FULL CANTILEVER) |
| RSP ES-15C | ELECTRICAL SYSTEMS (SIGN ILLUMINATION EQUIPMENT) |
| RSP ES-16A | ELECTRICAL SYSTEMS (CAMERA POLE 5′ TO 15′ OVERHEAD SIGN MOUNTED) |
| RSP ES-16B | ELECTRICAL SYSTEMS (CLOSED CIRCUIT TELEVISION, 25′ TO 45′ POLE) |




| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 920 | 1710 |

REGISTERED CIVIL ENGINEER — DATE 9-29-21

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN — No. C56803 — Exp. 06-30-23 — CIVIL — STATE OF CALIFORNIA

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4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

# GENERAL NOTES

DESIGN:

AASHTO Standard Specifications For Structural Supports For Highway Signs, Luminaires and Traffic Signals, 6th Edition, 2013.

LOADING:

SERVICE LOADING:
500 LBS concentrated live load at any one point.

TOLL EQUIPMENT LOADING:
PROJECTED AREA = 12 SQFT; WEIGHT = 400 LBS

WIND LOADING:
85 mph (3-second gust)
G = 1.14 Ir = 1.0

MATERIALS (STRUCTURAL STEEL):
Pipe Posts: fy = 42 ksi
Anchor bolts: fy = 55 ksi
Plates, hot rolled open shapes, fy = 36 ksi

MATERIALS (REINFORCED CONCRETE):
f′c = 3.6 ksi
fy = 60 ksi

MINIMUM CLEARANCE:
Vertical roadway clearance 18′-6" above roadway and shoulders.

WELDING:
Welding shall be in accordance with AWS Structural Welding Code D1.1.
All welding shall be continuous unless otherwise noted on the plans.

**NOTES:**

1. H = Distance from bottom of lower chord to bottom of base plate on truss sign structure.
2. D = Depth of truss frame
3. For location plans, see "LOCATION PLAN" sheets.
4. Base plate elevation will be verified by the Engineer.
5. For standard overhead and roadside sign panel details, see sheet SD-1 to SD-35.
6. For concrete barrier details and other information not shown on Sign Details sheets, see Construction Details sheets.
7. For the standard details of sign post, pedestal, and foundation, refer to Standard Plans, unless otherwise shown.
8. Walkway loading is not considered in design. Walkway shall not be added.
9. Toll equipments, including LED panels on overhead signs, to be installed by system integrator as part of separate contract.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

SPECIAL DESIGN SIGNS
GENERAL NOTES

SDS-1

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:56
FILE => 0420000235oc001.dgn USERNAME => p302438

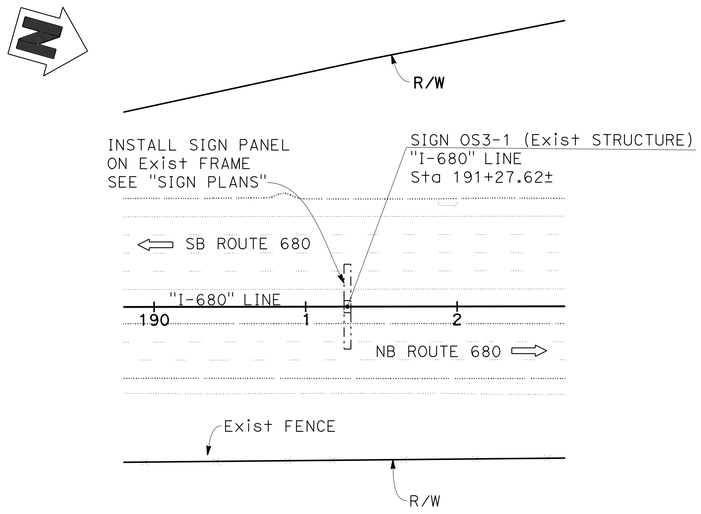
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

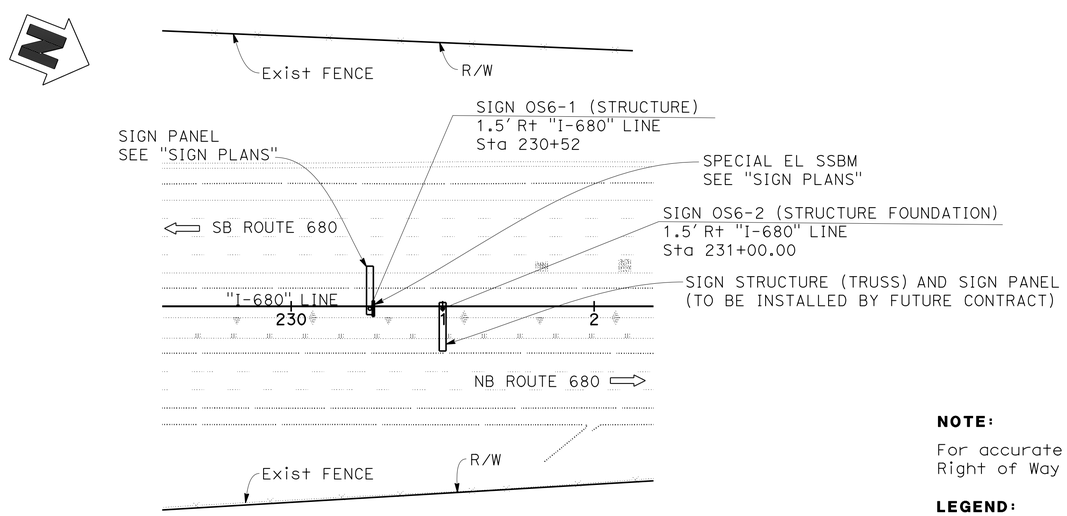
| REVISION DATES | | |
|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 |

SHEET 1 OF 65




## SIGN OS3-1 LOCATION PLAN

1" = 50'-0"




## SIGN OS6-1 AND OS6-2 LOCATION PLAN

1" = 50'-0"

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 921 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

ALAMEDA CTC
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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

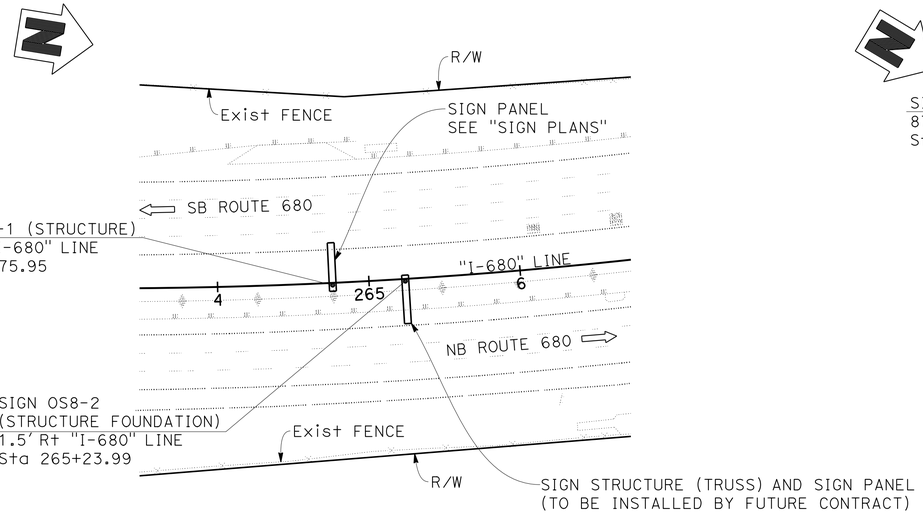
**NOTE:**

For accurate Right of Way data, contact
Right of Way Engineering at the district office.

**LEGEND:**

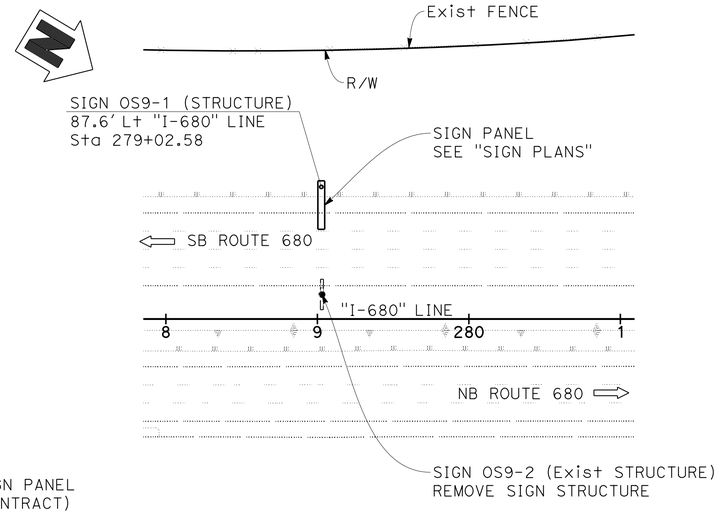
-·-·- Existing structure

⇦ Direction of Traffic




## SIGN OS8-1 AND OS8-2 LOCATION PLAN

1" = 50'-0"




## SIGN OS9-1 LOCATION PLAN

1" = 50'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT — Norbert Gee
2/15/22
SIGN OFF DATE

| | | | |
|---|---|---|---|
| DESIGN | BY D. Nguyen | CHECKED K. Lee | PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION |
| DETAILS | BY C. Tu | CHECKED K. Lee | |
| QUANTITIES | BY R. Kargarmockhar | CHECKED K. Lee | |

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## LOCATION PLAN No. 1

SDS-2

DESIGN DETAIL SHEET
(ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:56
FILE => 0420000235oc002.dgn USERNAME => p302438

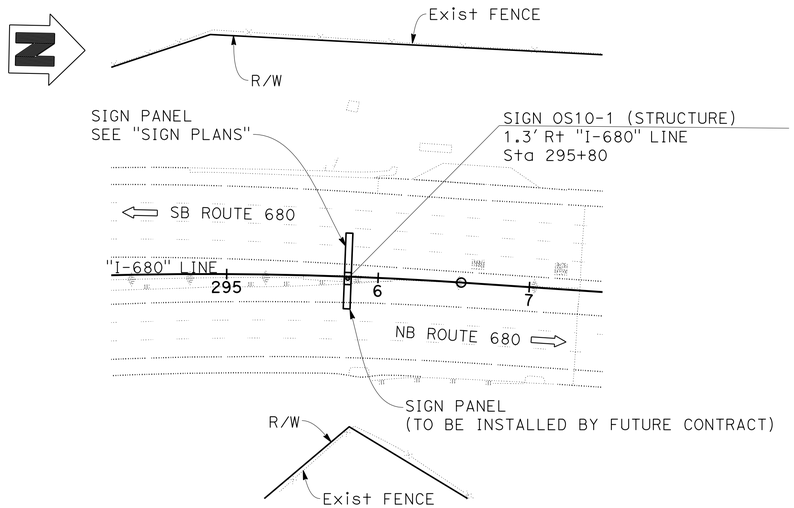
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

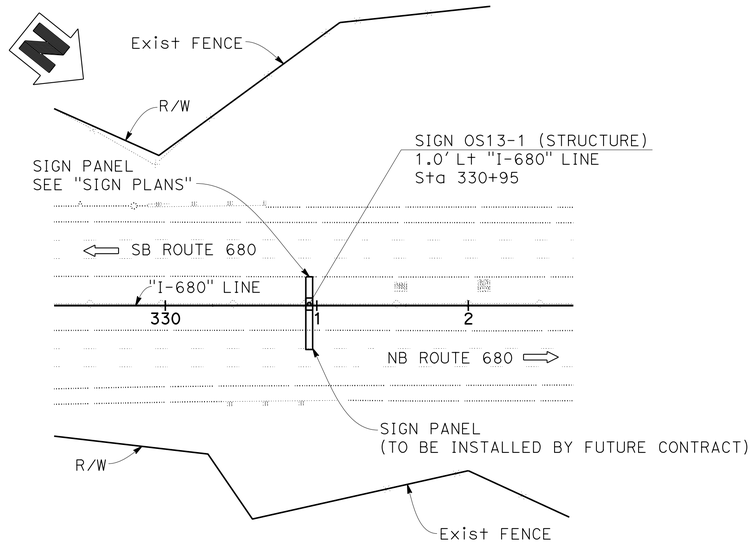
REVISION DATES: 07-31-20 / 08-30-21 09-29-21

SHEET 2 OF 65




## SIGN OS10-1 LOCATION PLAN

1" = 50'-0"




## SIGN OS13-1 LOCATION PLAN

1" = 50'-0"

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 922 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

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ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

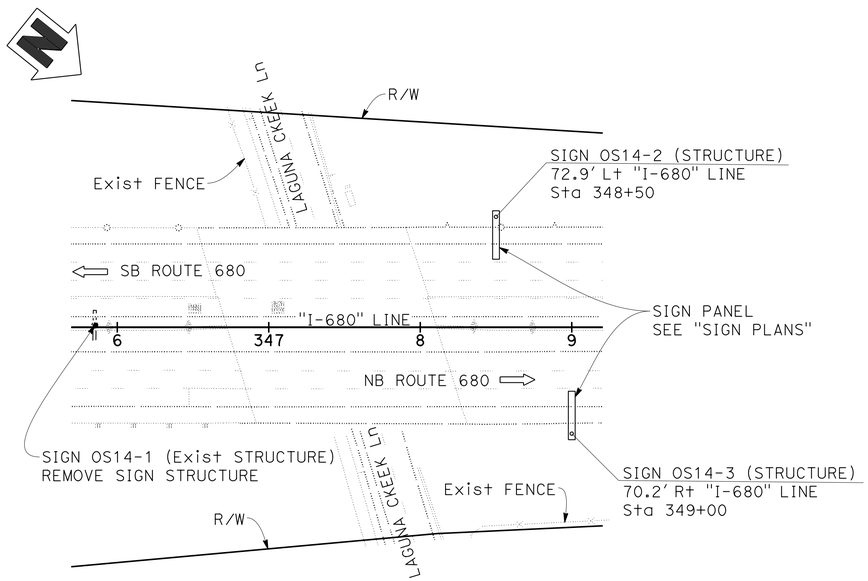
**NOTE:**

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Right of Way Engineering at the district office.

**LEGEND:**

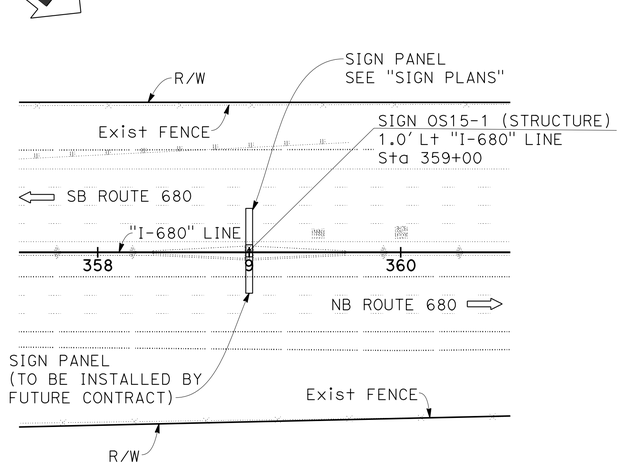
-·-·- Existing structure

⇦ Direction of Traffic



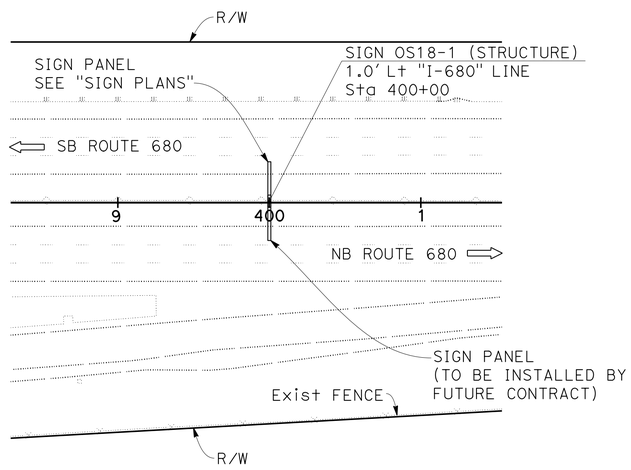

## SIGN OS14-2 AND OS14-3 LOCATION PLAN

1" = 50'-0"




## SIGN OS15-1 LOCATION PLAN

1" = 50'-0"




## SIGN OS18-1 LOCATION PLAN

1" = 50'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT — Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## LOCATION PLAN No. 2

SDS-3

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

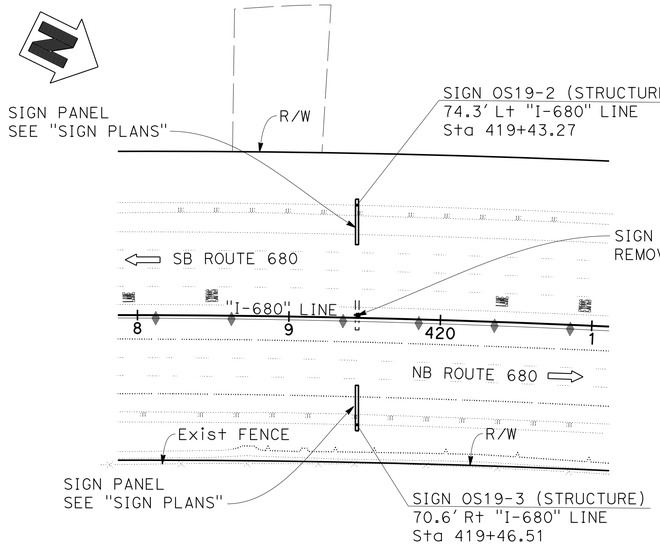
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:56
FILE => 0420000235oc003.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

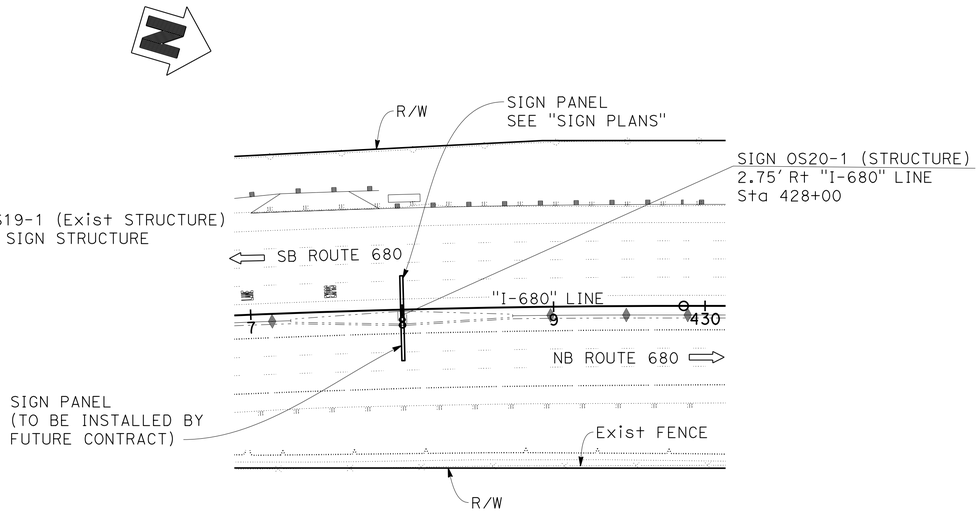
DISREGARD PRINTS BEARING EARLIER REVISION DATES

| REVISION DATES | | | SHEET | OF |
|---|---|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 | 3 | 65 |




## SIGN OS19-2 AND OS19-3 LOCATION PLAN

1" = 50'-0"




## SIGN OS20-1 LOCATION PLAN

1" = 50'-0"

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 923 | 1710 |

REGISTERED CIVIL ENGINEER — DATE 9-29-21

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN — No. C56803 — Exp. 06-30-23 — CIVIL — STATE OF CALIFORNIA

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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

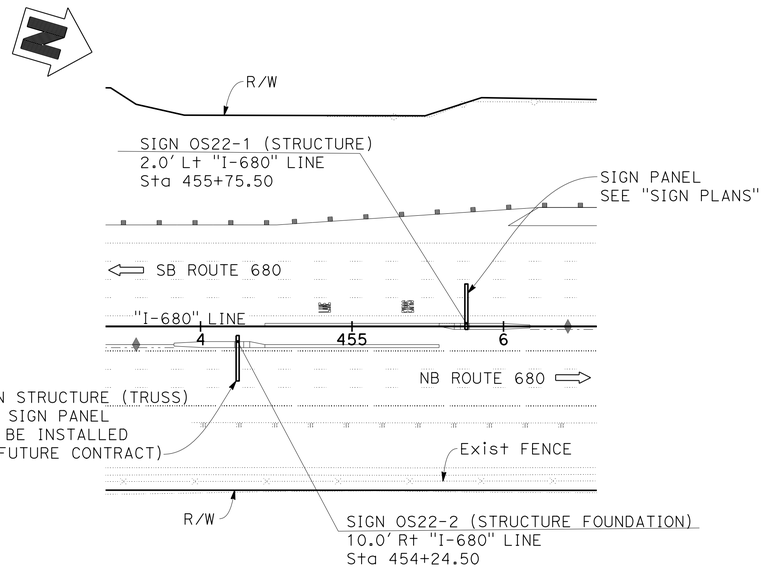
**NOTE:**

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**LEGEND:**

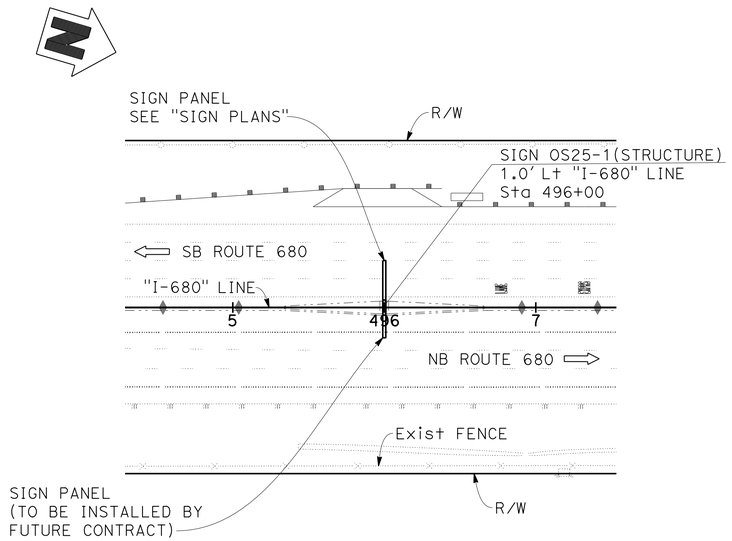
-·-·- Existing structure

⇦ Direction of Traffic



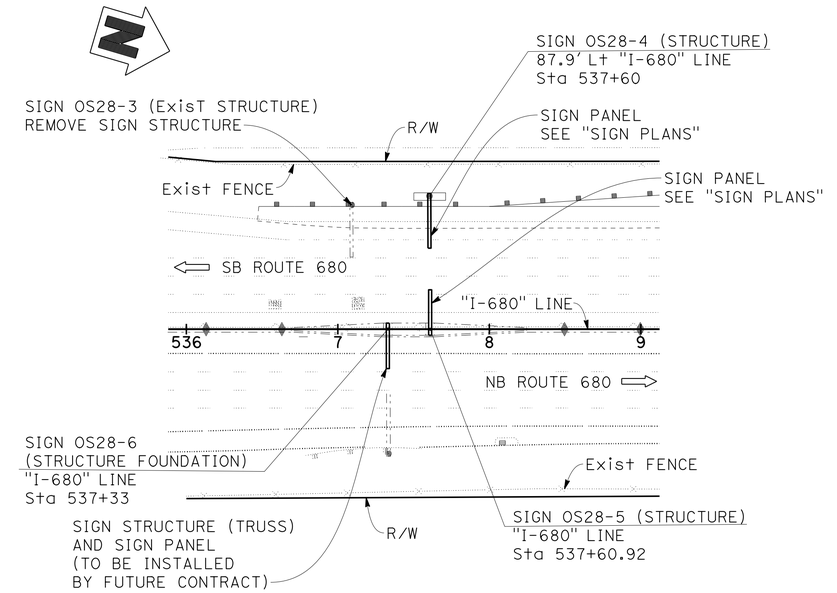

## SIGN OS22-1 AND OS22-2 LOCATION PLAN

1" = 50'-0"




## SIGN OS25-1 LOCATION PLAN

1" = 50'-0"




## SIGN OS28-6, OS28-5, AND OS28-4 LOCATION PLAN

1" = 50'-0"

NOTE:
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CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT — Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
# LOCATION PLAN No. 3

SDS-4

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:56
FILE => 0420000235oc004.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | SHEET | OF |
|---|---|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 | 4 | 65 |

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 924 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

**NOTE:**

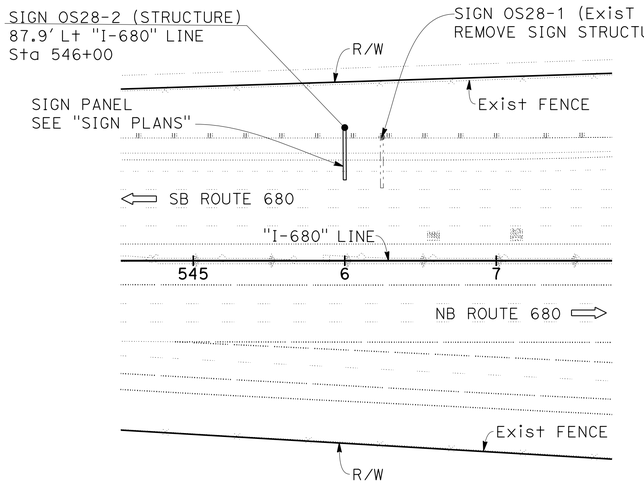
For accurate Right of Way data, contact Right of Way Engineering at the district office.

**LEGEND:**

-·-·- Existing structure

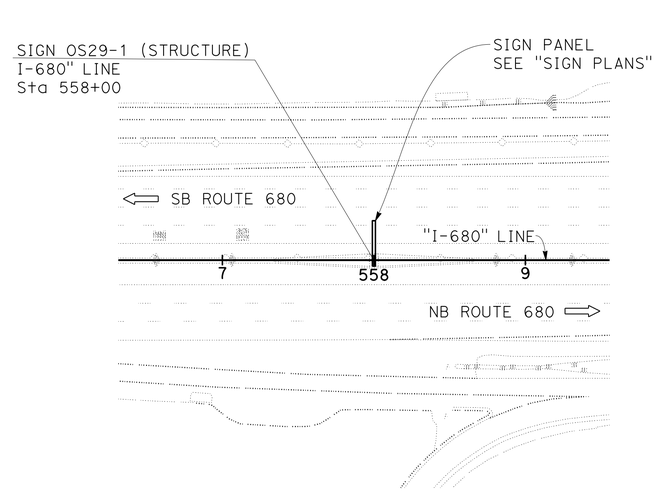
⇦ Direction of Traffic

## PLEASANTON




## SIGN OS28-2 LOCATION PLAN

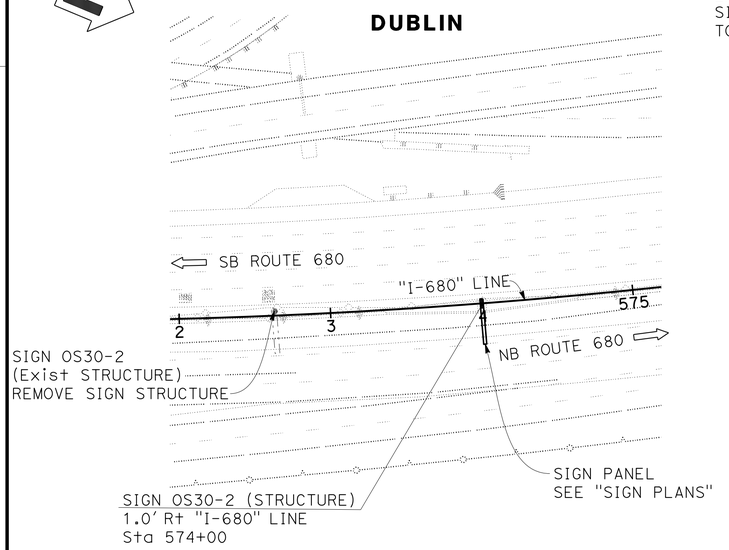
1" = 50'-0"




## SIGN OS29-1 LOCATION PLAN

1" = 50'-0"

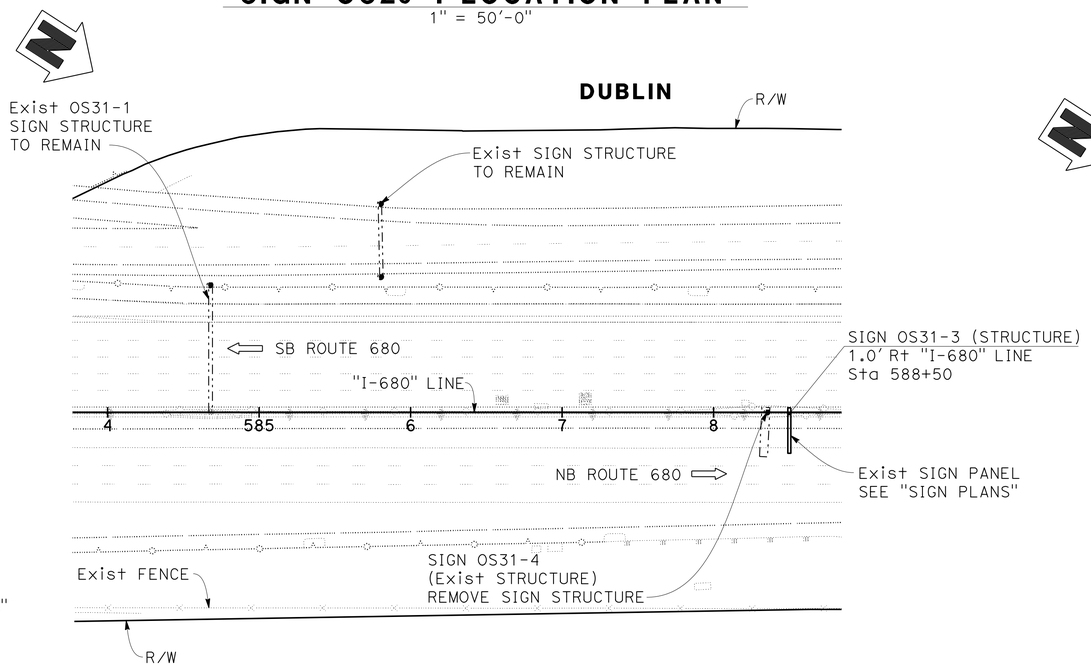
## DUBLIN




## SIGN OS30-2 LOCATION PLAN

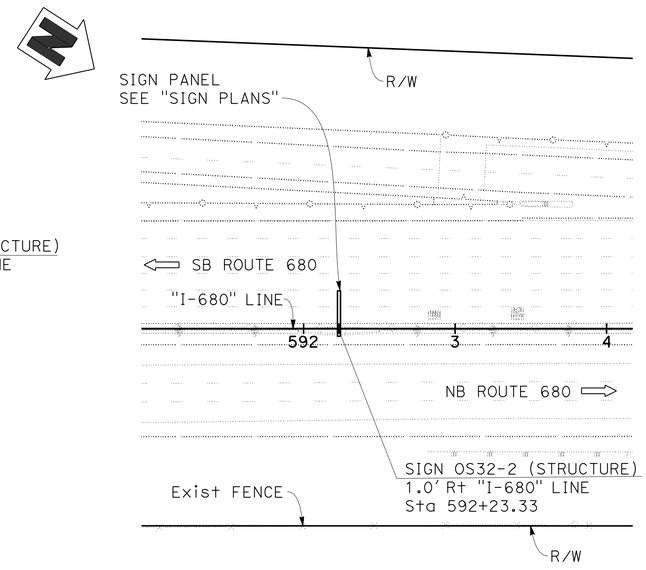
1" = 50'-0"

## DUBLIN




## SIGN OS31-3 LOCATION PLAN

1" = 50'-0"




## SIGN OS32-2 LOCATION PLAN

1" = 50'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## LOCATION PLAN No. 4

SDS-5

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

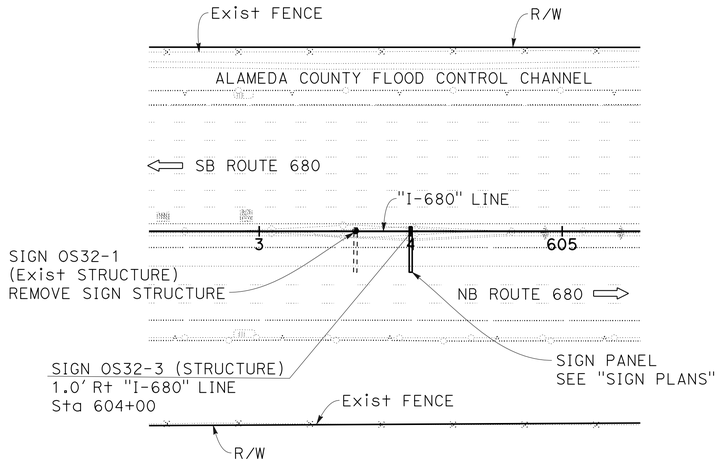
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:57
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

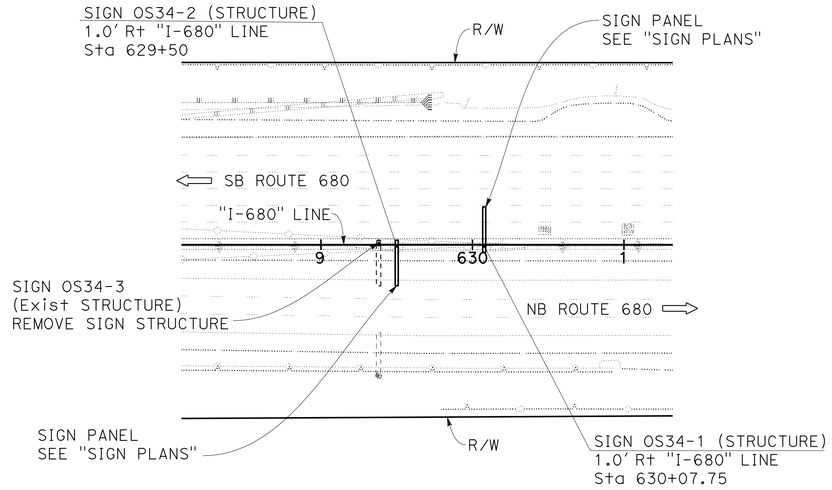
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | SHEET | OF |
|---|---|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 | 5 | 65 |




## SIGN OS32-3 LOCATION PLAN

1" = 50'-0"




## SIGN OS34-1 AND OS34-2 LOCATION PLAN

1" = 50'-0"

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 925 | 1710 |

REGISTERED CIVIL ENGINEER — DATE: 9-29-21

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN, No. C56803, Exp. 06-30-23, CIVIL, STATE OF CALIFORNIA

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ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

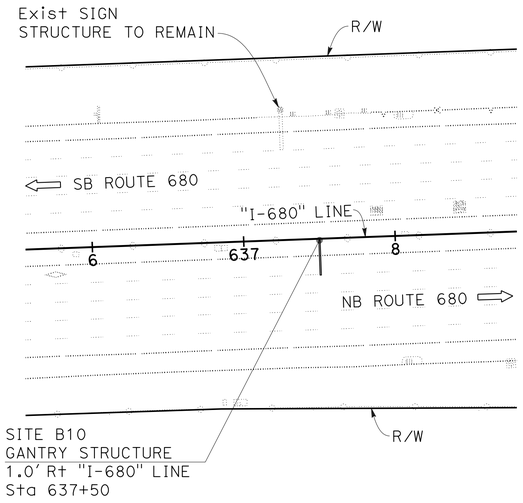
**NOTE:**

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**LEGEND:**

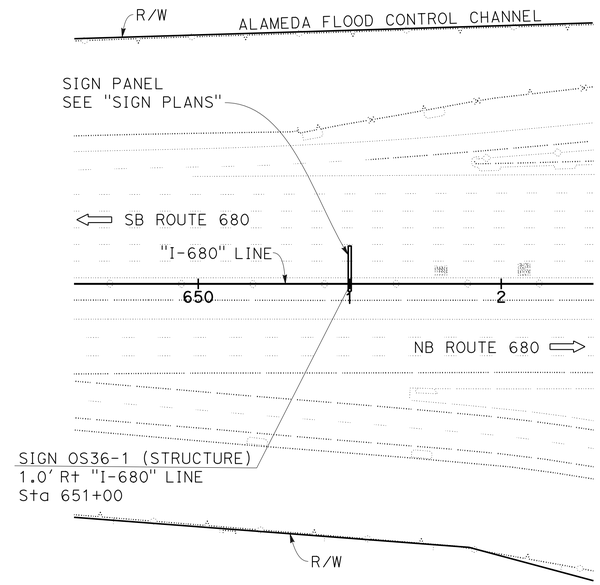
-·-·- Existing structure

⇦ Direction of Traffic




## B10 GANTRY LOCATION PLAN

1" = 50'-0"




## SIGN OS36-1 LOCATION PLAN

1" = 50'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## LOCATION PLAN No. 5

SDS-6

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

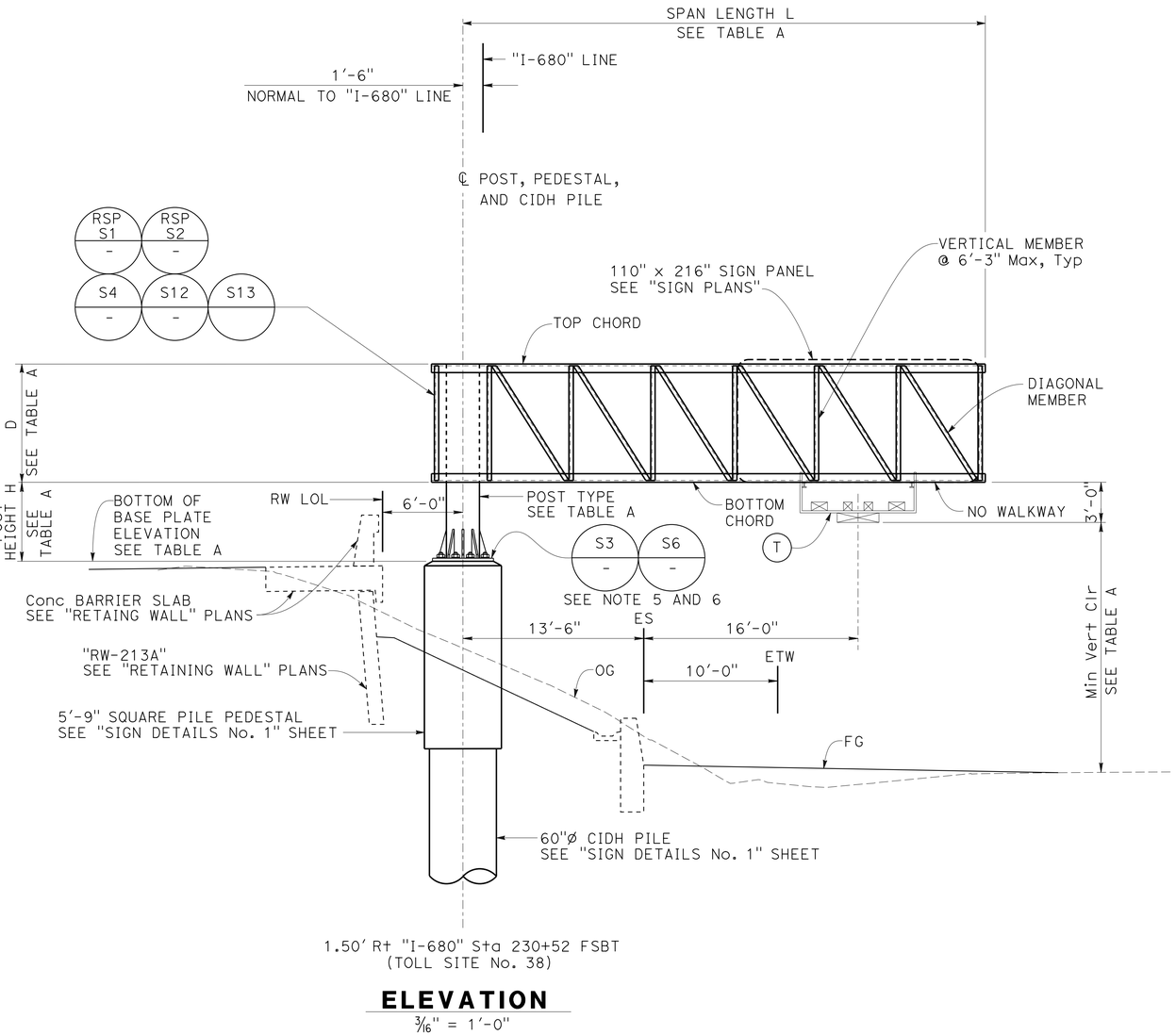
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:57
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

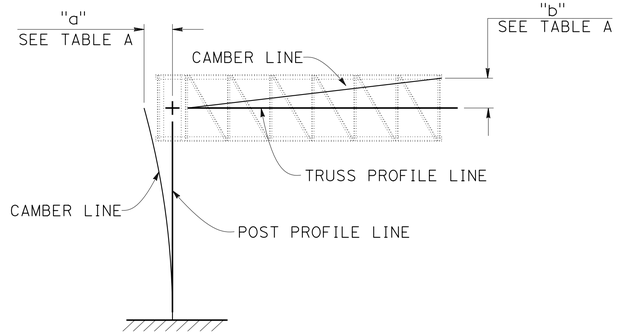
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | SHEET | OF |
|---|---|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 | 6 | 65 |




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 926 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

**LEGEND:**

(T) Electronic Toll Equipment

## TABLE A

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS6-1 | IX | 5.9' | 8'-10" | 39.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 1/2 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 1/2" | 2" | 349.05' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS6-1 (GANTRY) LAYOUT

SDS-7

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

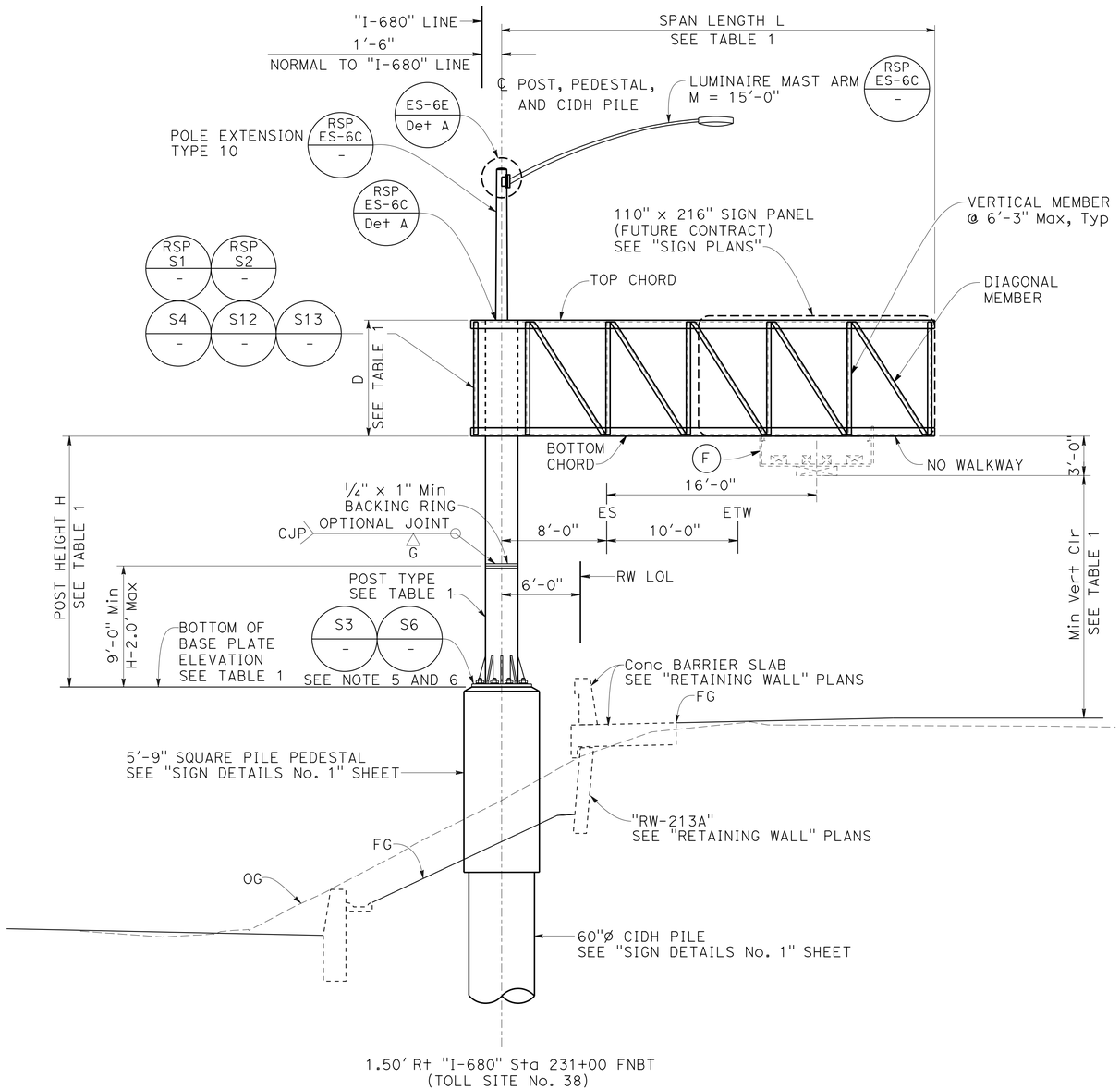
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:57
FILE => 0420000235oc007.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

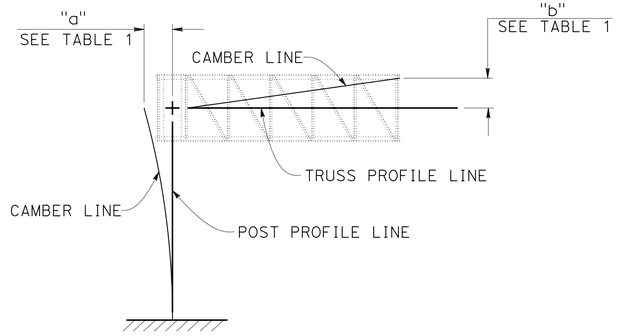
| REVISION DATES | | | | SHEET | OF |
|---|---|---|---|---|---|
| 09-29-21 | | | | 7 | 65 |




## ELEVATION

3/16" = 1'-0"

Note: Only foundation to be constructed at this location. Other information and details of post, truss frame, and sign panel shown are for future construction.




## CAMBER DIAGRAM

NO SCALE

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

**LEGEND:**

(F) Future Electronic Toll Equipment mounted on overhead sign structure.

**TABLE 1**

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS6-2 | VII | 19.1' | 8'-10" | 33.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 1/2 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 1" | 2" | 352.45' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 927 | 1710 |

REGISTERED CIVIL ENGINEER — DATE: 9-29-21

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN — No. C56803 — Exp. 06-30-23 — CIVIL — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

DESIGN OVERSIGHT — Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS6-2 (GANTRY) LAYOUT

SDS-8

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

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FILE => 0420000235oc008.dgn USERNAME => p302438

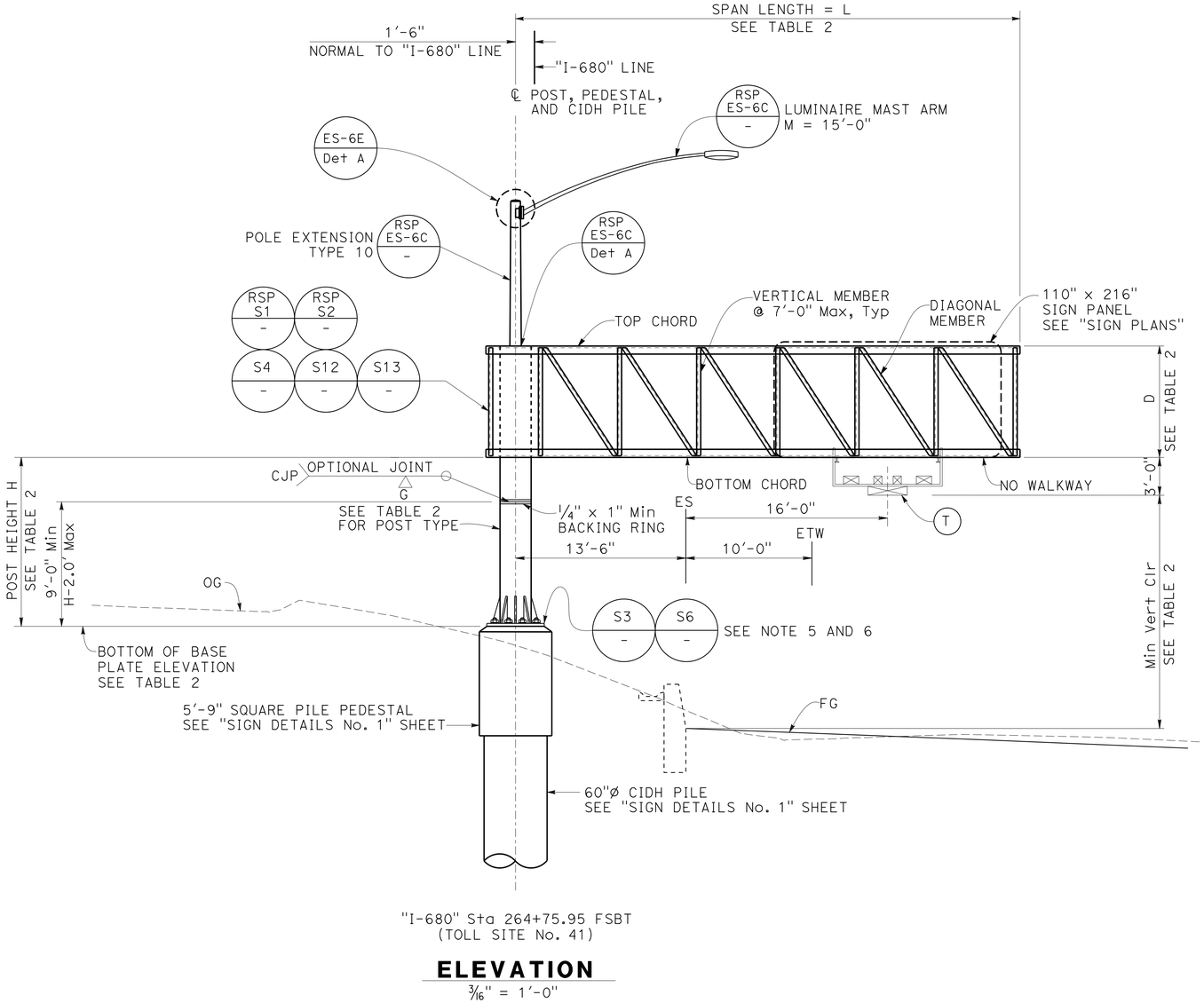
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

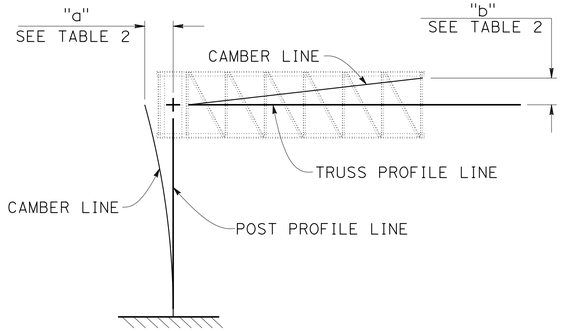
| REVISION DATES | | |
|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 |

SHEET 8 OF 65




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 928 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

**LEGEND:**

(T) Electronic Toll Equipment

## TABLE 2

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS8-1 | VIII | 13.4' | 8'-10" | 40.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 1/2 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 0.75" | 2.25" | 352.95' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS8-1 (GANTRY) LAYOUT

SDS-9

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

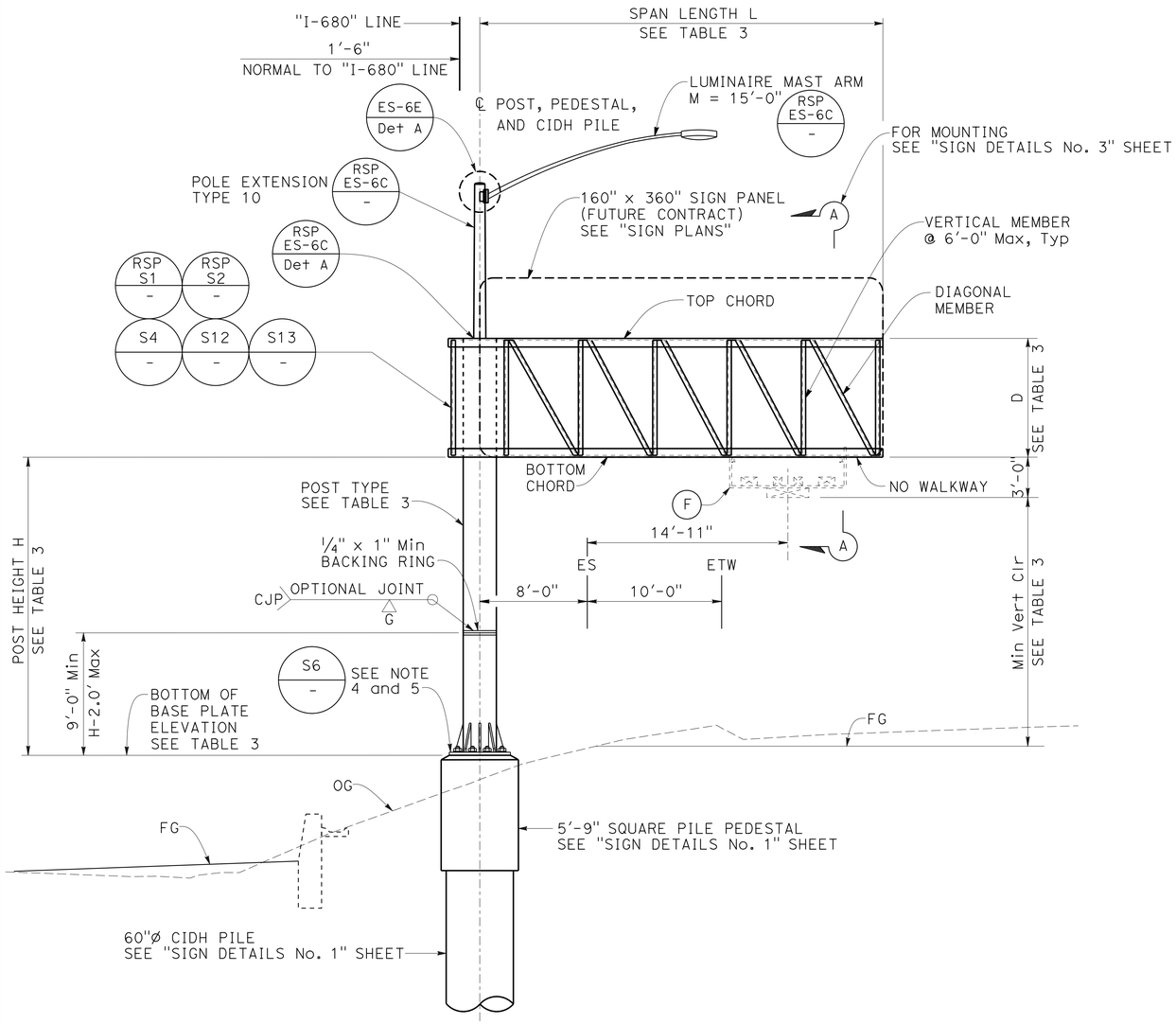
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | SHEET | OF |
|---|---|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 | 9 | 65 |

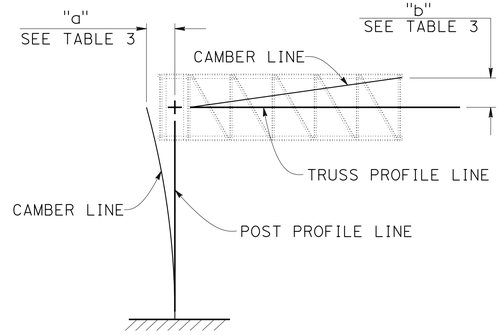



1.50' Rt "I-680" Sta 265+23.99 FNBT
(TOLL SITE No. 41)

## ELEVATION

3/16" = 1'-0"

Note: Only foundation to be constructed at this location. Other information and details of post, truss frame, and sign panel shown are for future construction.




## CAMBER DIAGRAM

NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 929 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN, No. C56803, Exp. 06-30-23, CIVIL, STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

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ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

**LEGEND:**

(F) Future Electronic Toll Equipment mounted on overhead sign structure.

## TABLE 3

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS8-2 | SPECIAL (NPS = 24" AND THICKNESS = 1.219") | 23.2' | 8'-10" | 30.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 3/4 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 1" | 1.75" | 354.08' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Norbert Lee
DESIGN OVERSIGHT — Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS8-2 (GANTRY) LAYOUT

SDS-10

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

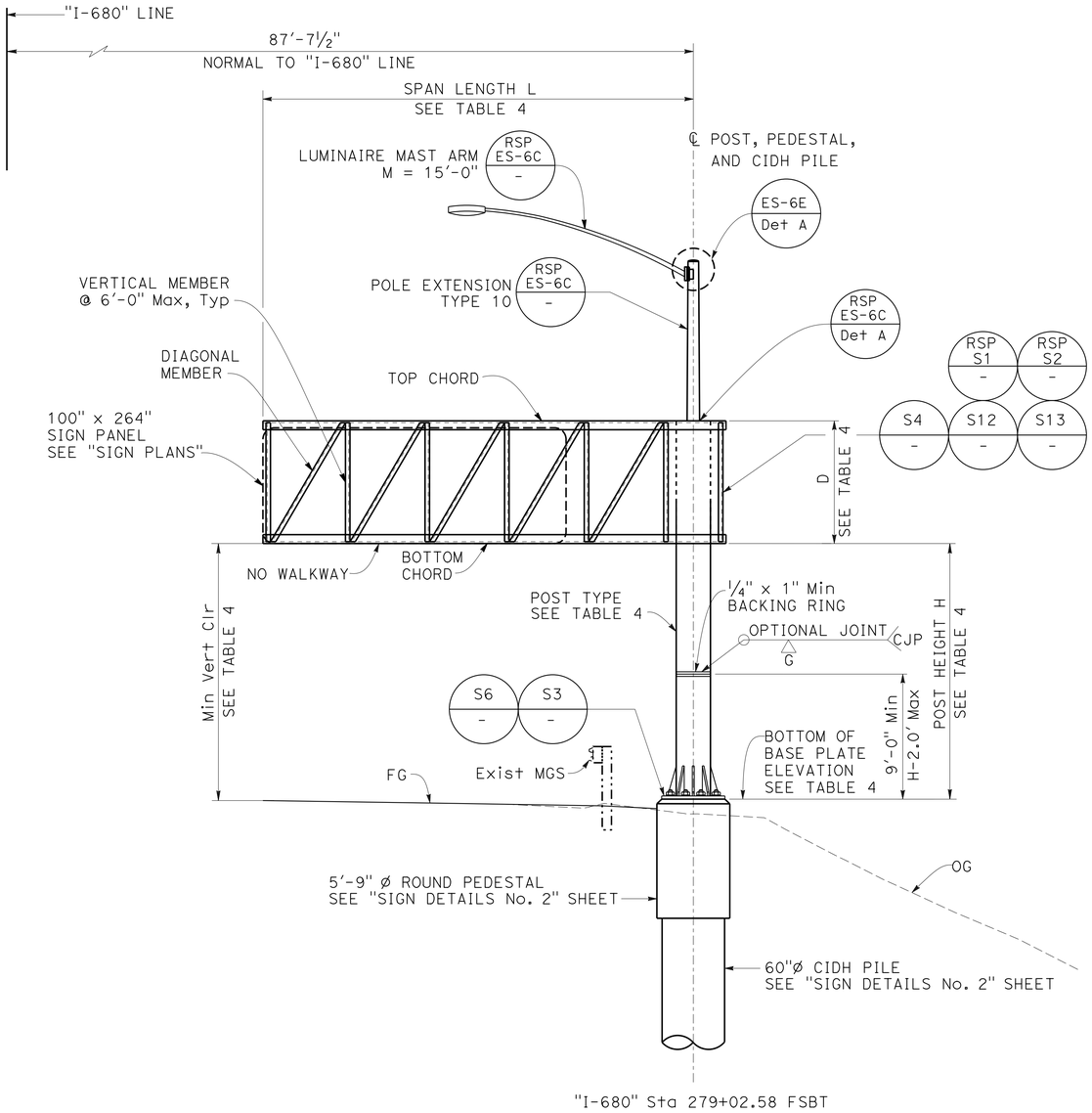
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

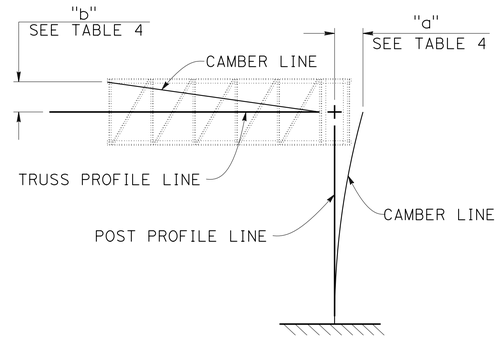
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | SHEET | OF |
|---|---|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 | 10 | 65 |




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Provide handhole and couplings per Standard Plan RSP S2. Weld ¾" coupling or drill and tap for ¾" short nipple, same side as sign face. Plug with recessed pipe plug. See Standard Plan ES-15C.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 930 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

## TABLE 4

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS9-1 | VII | 18.4' | 8'-10" | 31.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x ½ | L's 3½ x 3½ x 5/16 | L's 2½ x 2½ x ¼ | 18.5' | 0.75" | 1.75" | 370.15' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS9-1 (GANTRY) LAYOUT

SDS-11

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

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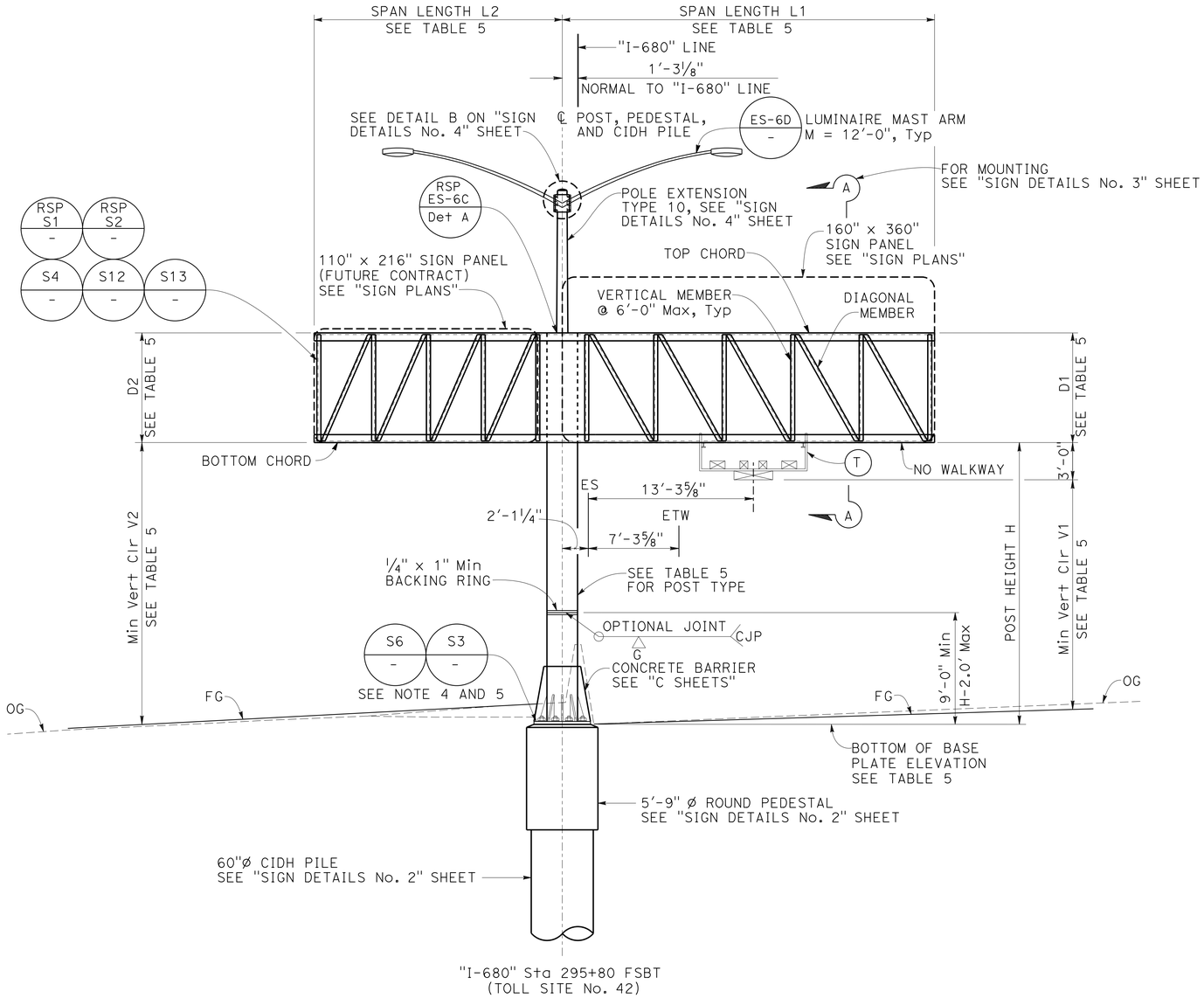
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

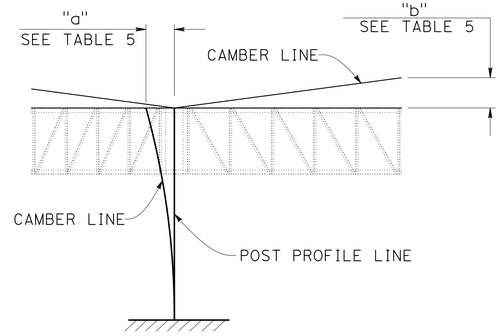
REVISION DATES: 07-31-20 / 08-30-21 09-29-21

SHEET 11 OF 65




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 931 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

**LEGEND:**

(T) Electronic Toll Equipment

## TABLE 5

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D1 | FRAME DEPTH D2 | SPAN LENGTH L1 | SPAN LENGTH L2 | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr V1 | Min Vert Clr V2 | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS10-1 | SPECIAL (NPS = 24" AND THICKNESS = 1.219") | 22.7' | 8'-10" | 8'-10" | 30.0' | 20.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x ¾ | L's 3½ x 3½ x 5/16 | L's 2½ x 2½ x ¼ | 18.5' | 18.5' | 0.5" | 1" | 352.65' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT — Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS10-1 (GANTRY) LAYOUT

SDS-12

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:57
FILE => 0420000235oc012.dgn USERNAME => p302438

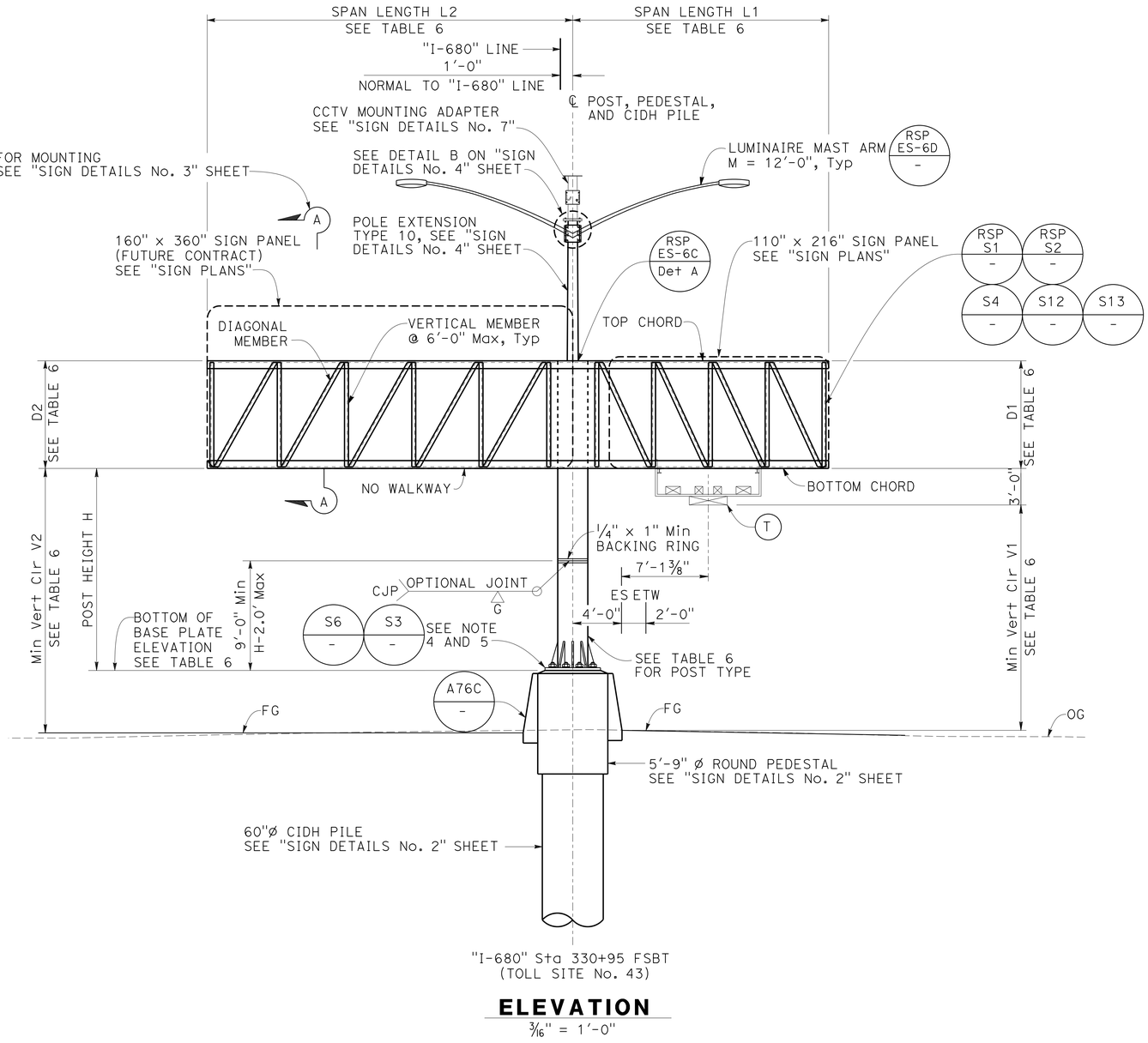
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

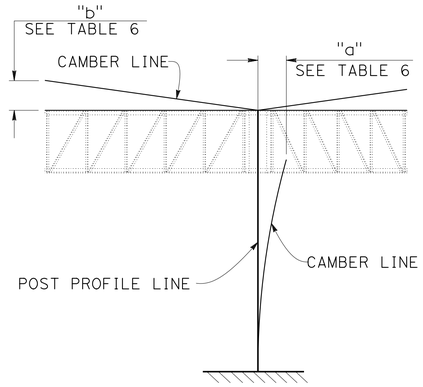
REVISION DATES: 07-31-20 / 08-30-21 / 09-29-21

SHEET 12 OF 65




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 932 | 1710 |

REGISTERED CIVIL ENGINEER — DATE 9-29-21

DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

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SAN JOSE, CA 95113

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

**LEGEND:**

(T) Electronic Toll Equipment

## TABLE 6

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH | | SPAN LENGTH | | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | D1 | D2 | L1 | L2 | | | | | V1 | V2 | | | |
| OS13-1 | IX | 16.6' | 8'-10" | 8'-10" | 21.0' | 30.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 3/4 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 18.5' | 0.25" | 0.75" | 394.62' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS13-1 (GANTRY) LAYOUT

SDS-13

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:57
FILE => 0420000235oc013.dgn USERNAME => p302438

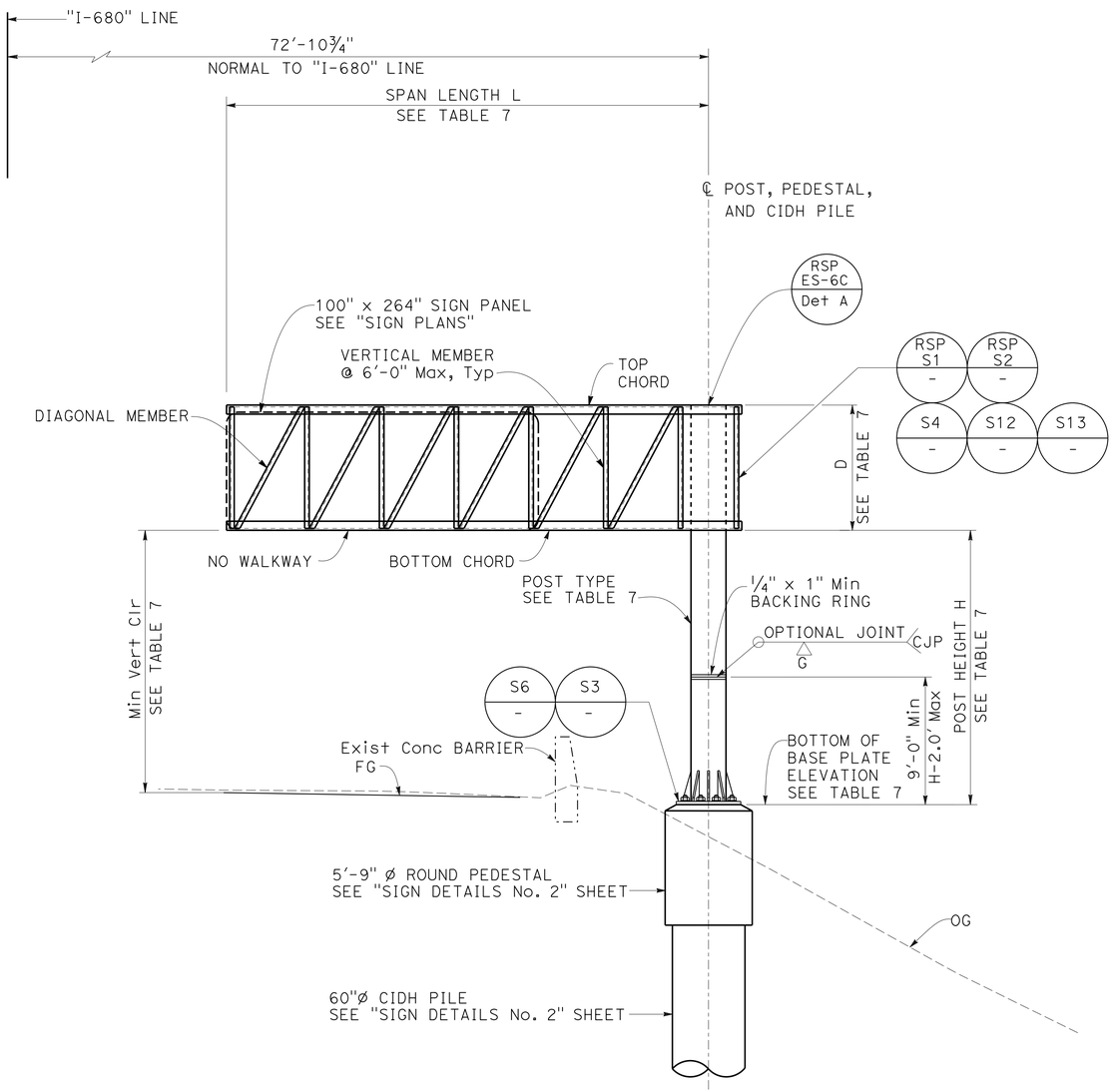
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 07-31-20 / 08-30-21 09-29-21

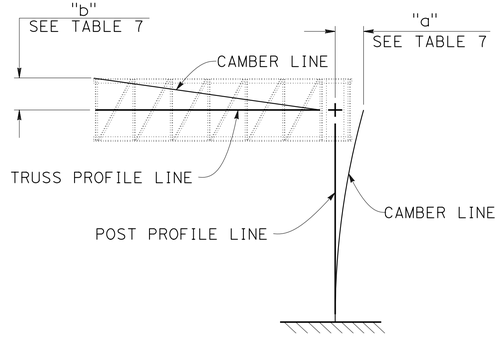
SHEET 13 OF 65




"I-680" Sta 348+50 FSBT

## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Provide handhole and couplings per Standard Plan RSP S2. Weld ¾" coupling or drill and tap for ¾" short nipple, same side as sign face. Plug with recessed pipe plug. See Standard Plan ES-15C.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.

**TABLE 7**

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS14-2 | VII | 19.4' | 8'-10" | 34'-0" | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x ½ | L's 3½ x 3½ x 5/16 | L's 2½ x 2½ x ¼ | 18.5' | 1" | 2.25" | 338.08' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 933 | 1710 |

REGISTERED CIVIL ENGINEER — DATE 9-29-21

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

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AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

DESIGN OVERSIGHT Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS

## SIGN OS14-2 (GANTRY) LAYOUT

SDS-14

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:58
FILE => 0420000235oc014.dgn USERNAME => p302438

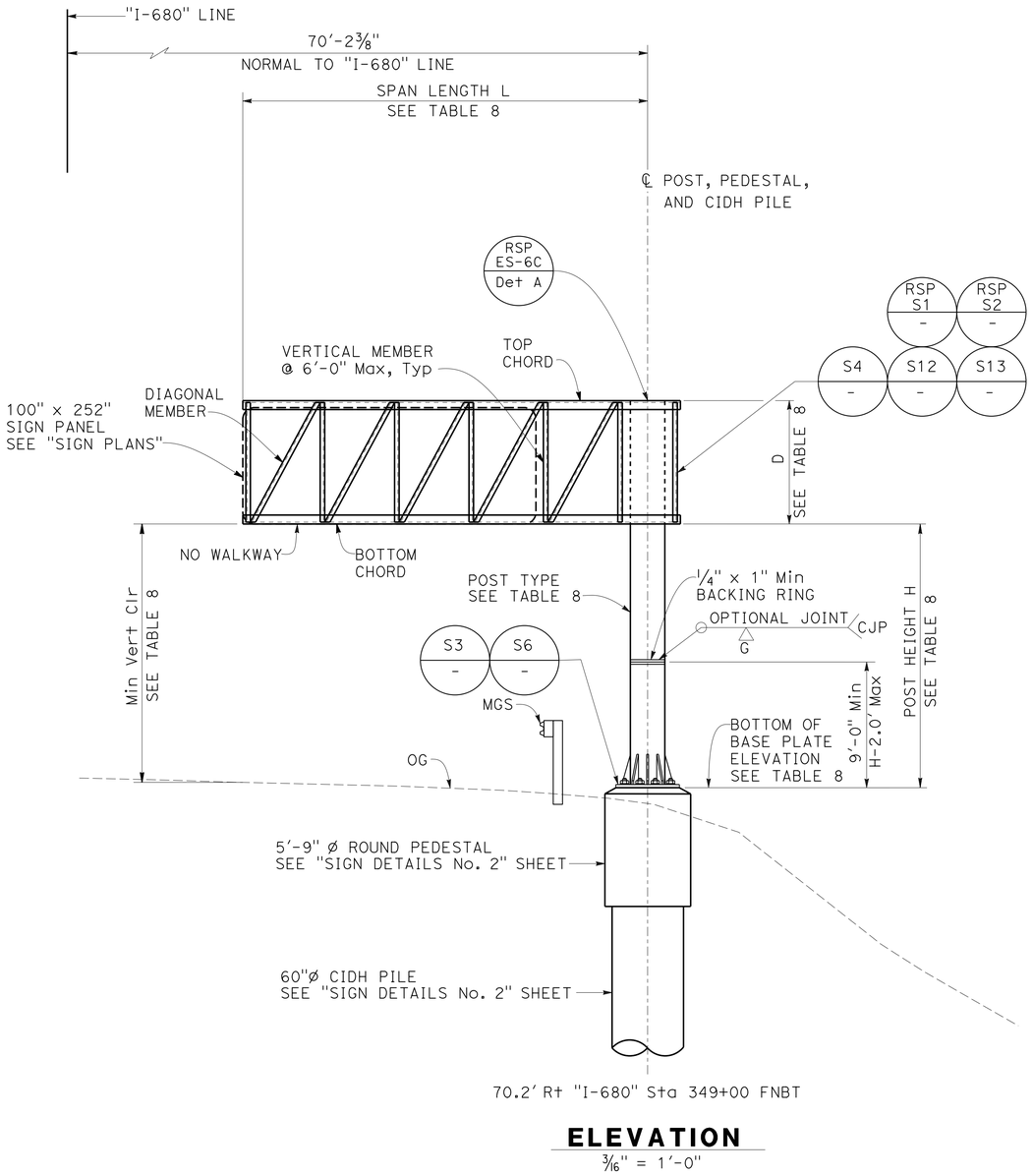
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES

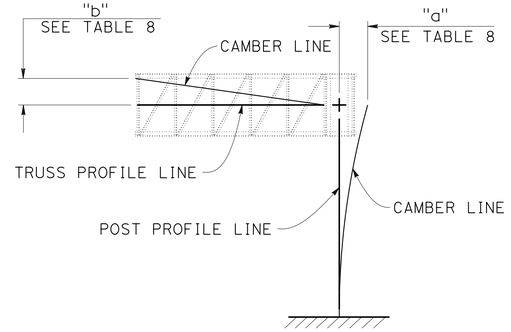
REVISION DATES: 07-31-20 / 08-30-21 09-29-21

SHEET 14 OF 65




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Provide handhole and couplings per Standard Plan RSP S2. Weld ¾" coupling or drill and tap for ¾" short nipple, same side as sign face. Plug with recessed pipe plug. See Standard Plan ES-15C.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.

**TABLE 8**

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS14-3 | VII | 18.7' | 8'-10" | 29'-0" | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x ½ | L's 3½ x 3½ x 5/16 | L's 2½ x 2½ x ¼ | 18.5' | 0.75" | 1.5" | 337.19' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 934 | 1710 |

REGISTERED CIVIL ENGINEER — DATE: 9-29-21

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

DESIGN OVERSIGHT: Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS14-3 (GANTRY) LAYOUT

SDS-15

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

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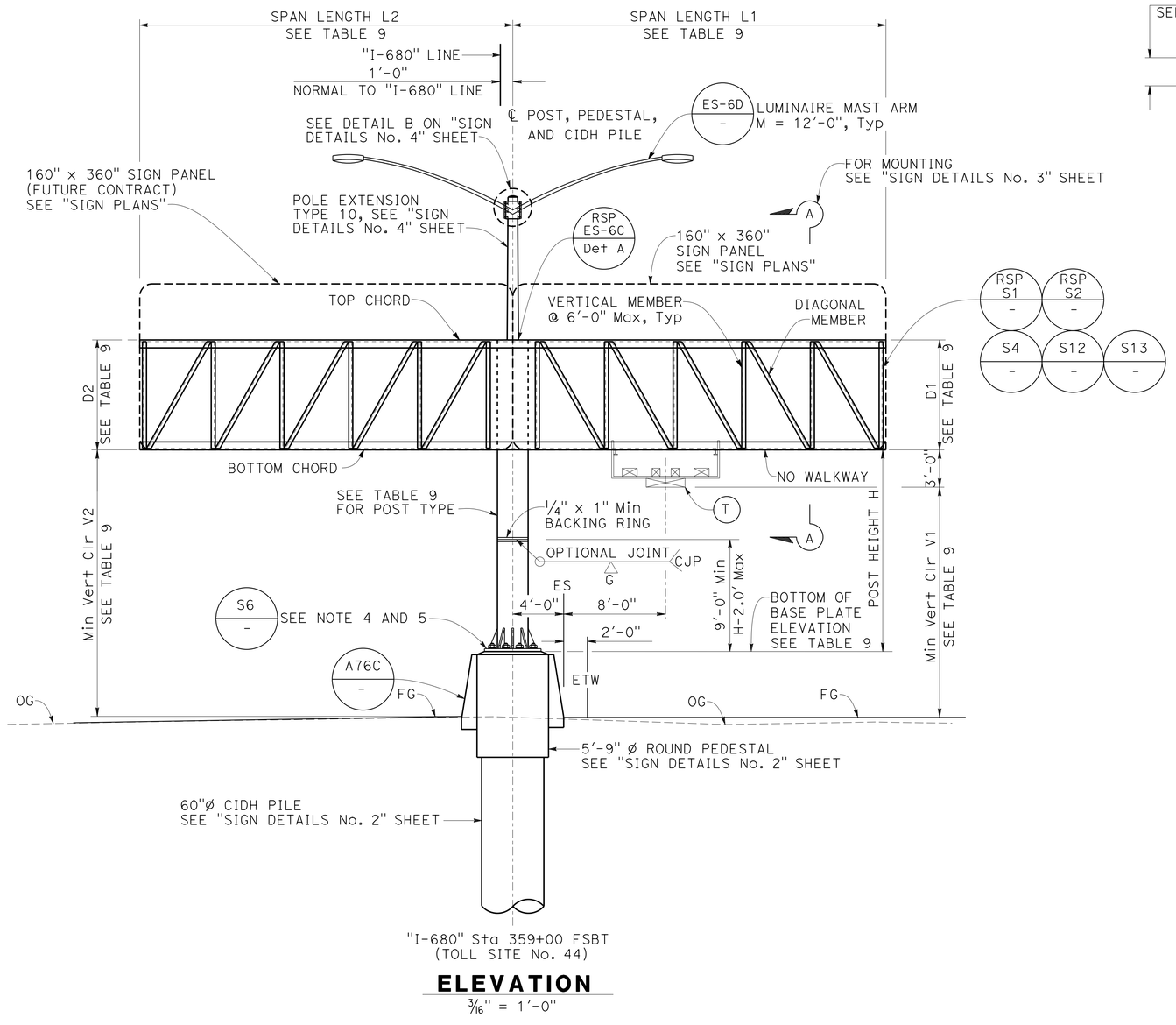
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

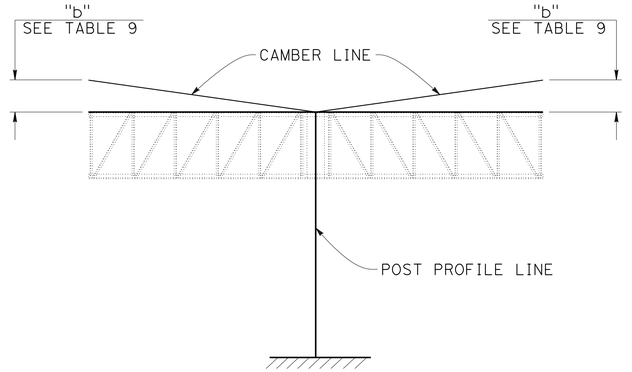
| REVISION DATES | | |
|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 |

SHEET 15 OF 65




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 935 | 1710 |

REGISTERED CIVIL ENGINEER — DATE 9-29-21

DUNG NGUYEN
No. C56803
Exp. 06-30-23
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

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4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

**LEGEND:**

(T) Electronic Toll Equipment

## TABLE 9

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH | | SPAN LENGTH | | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | D1 | D2 | L1 | L2 | | | | | V1 | V2 | | |
| OS15-1 | SPECIAL (NPS = 24" AND THICKNESS = 1.531") | 16.5' | 8'-10" | 8'-10" | 30.0' | 30.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 3/4 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 18.5' | 1" | 334.21 |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS15-1 (GANTRY) LAYOUT

SDS-16

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:58
FILE => 0420000235oc016.dgn USERNAME => p302438

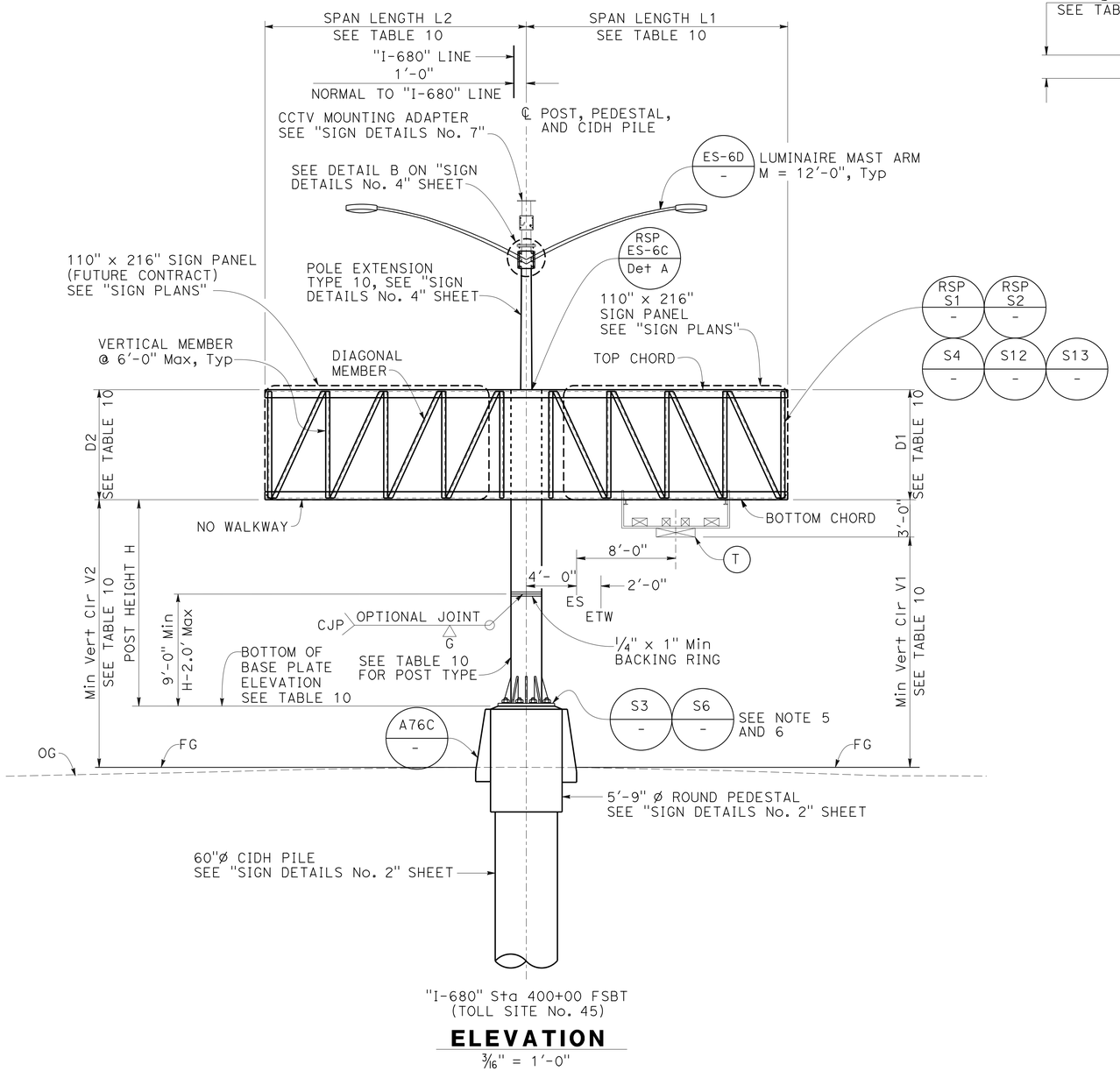
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

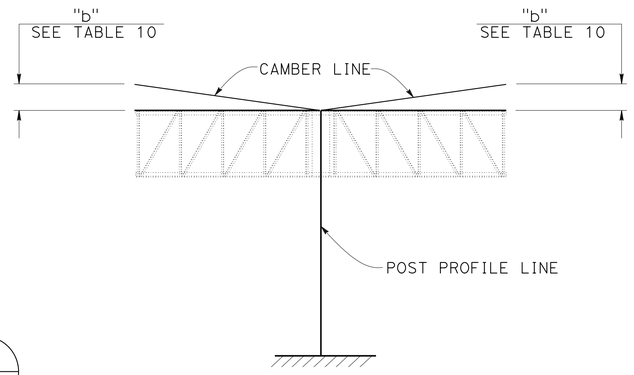
REVISION DATES: 07-31-20 / 08-30-21 / 09-29-21

SHEET 16 OF 65




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

**LEGEND:**

(T) Electronic Toll Equipment

## TABLE 10

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D1 | FRAME DEPTH D2 | SPAN LENGTH L1 | SPAN LENGTH L2 | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr V1 | Min Vert Clr V2 | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS18-1 | VII | 16.5' | 8'-10" | 8'-10" | 21.0' | 21.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 1/2 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 18.5' | 0.5" | 337.25' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 936 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

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4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

DESIGN OVERSIGHT Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS18-1 (GANTRY) LAYOUT

SDS-17

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

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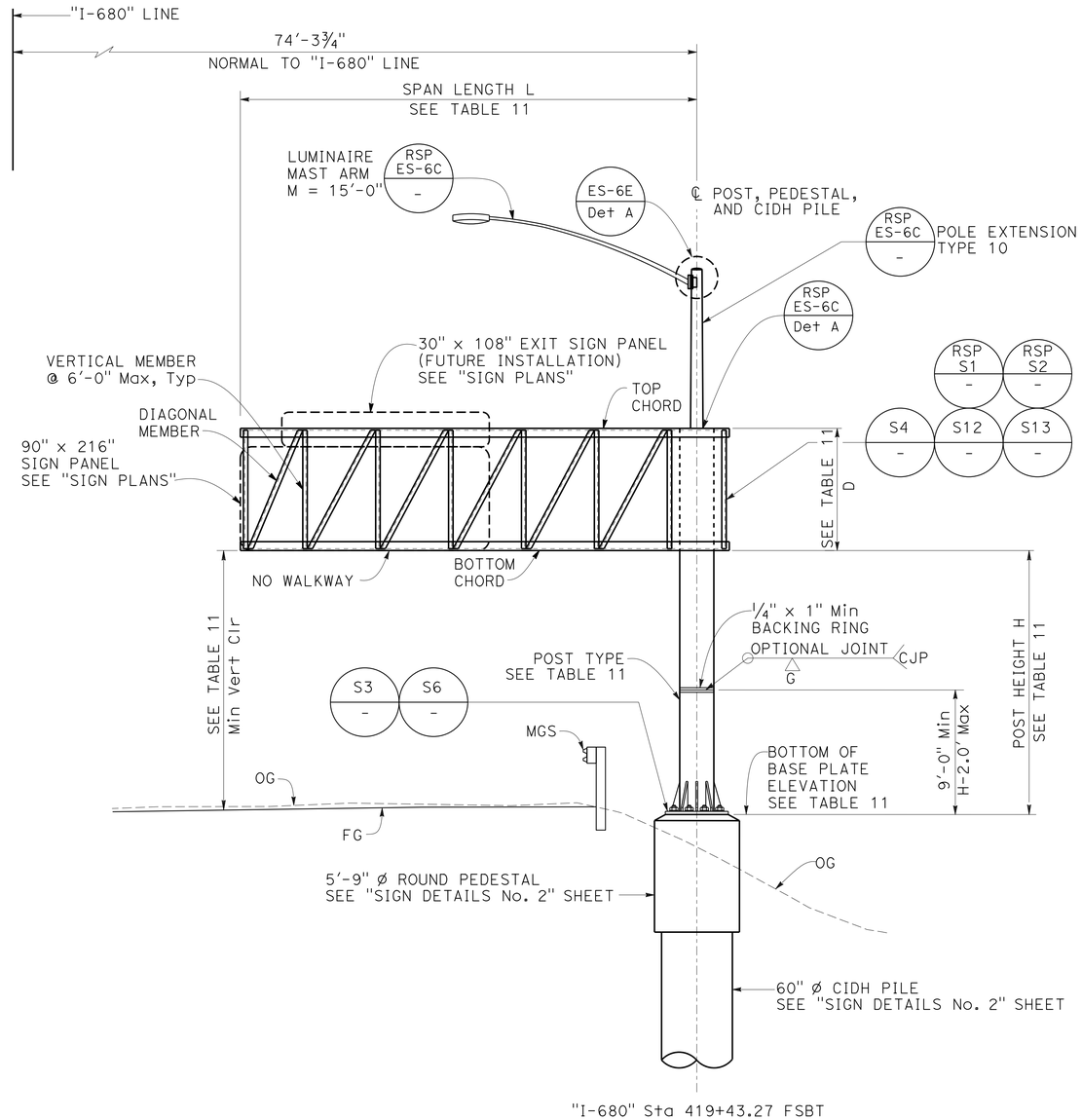
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES

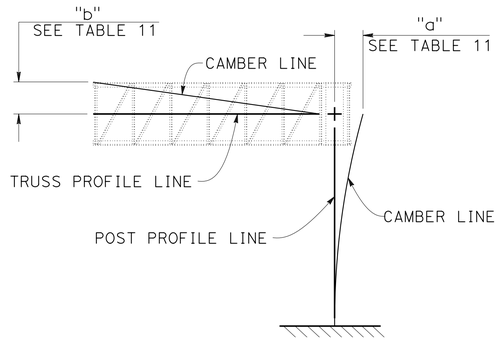
REVISION DATES: 07-31-20 / 08-30-21 / 09-29-21

SHEET 17 OF 65




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Provide handhole and couplings per Standard Plan RSP S2. Weld ¾" coupling or drill and tap for ¾" short nipple, same side as sign face. Plug with recessed pipe plug. See Standard Plan ES-15C.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 937 | 1710 |

REGISTERED CIVIL ENGINEER — DATE: 9-29-21

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

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4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

## TABLE 11

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS19-2 | VII | 19.1' | 8'-10" | 33'-0" | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x ½ | L's 3½ x 3½ x 5/16 | L's 2½ x 2½ x ¼ | 18.5' | 0.75" | 2" | 327.64' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Norbert Lee
DESIGN OVERSIGHT — Norbert Lee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS19-2 (GANTRY) LAYOUT

SDS-18

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

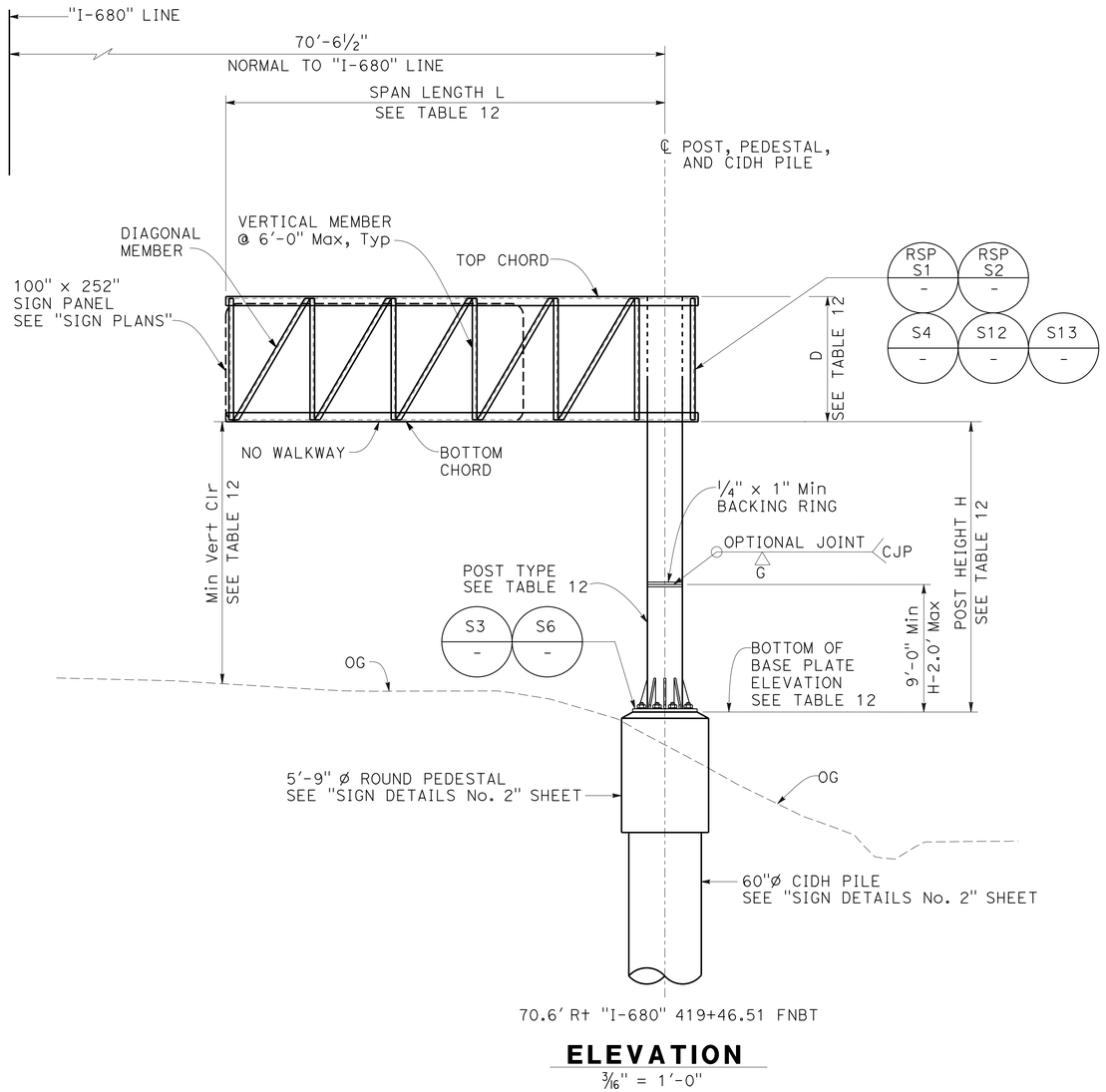
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:58
FILE => 0420000235oc018.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

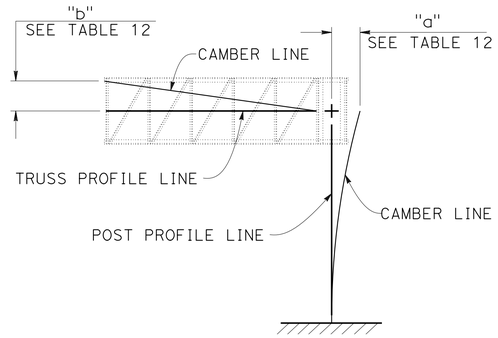
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | SHEET | OF |
|---|---|---|
| 07-31-20 / 08-30-21 / 09-29-21 | 18 | 65 |




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 938 | 1710 |

REGISTERED CIVIL ENGINEER — DATE 9-29-21

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Provide handhole and couplings per Standard Plan RSP S2. Weld ¾" coupling or drill and tap for ¾" short nipple, same side as sign face. Plug with recessed pipe plug. See Standard Plan ES-15C.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.

## TABLE 12

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS19-3 | VII | 20.5' | 8'-10" | 31.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x ½ | L's 3½ x 3½ x 5/16 | L's 2½ x 2½ x ¼ | 18.5' | 0.75" | 1.75" | 325.17' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS19-3 (GANTRY) LAYOUT

SDS-19

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

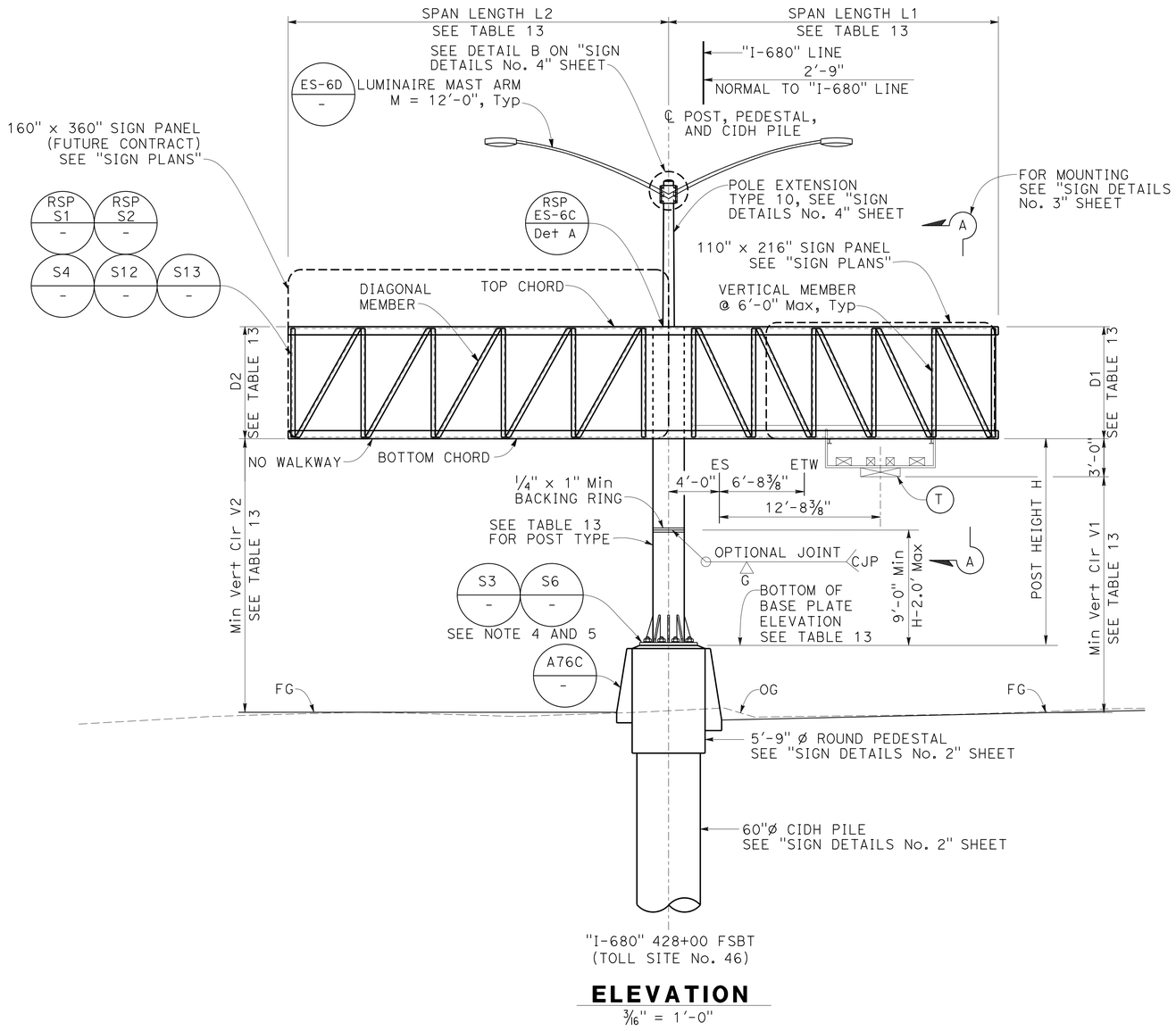
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:58
FILE => 0420000235oc019.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

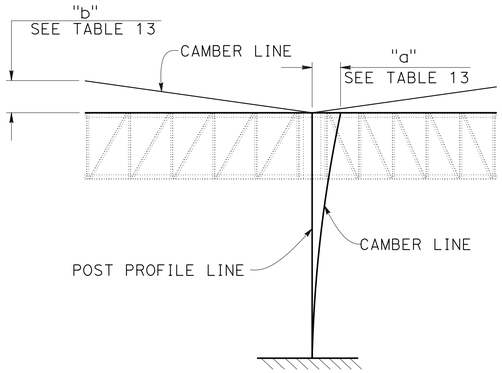
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | SHEET | OF |
|---|---|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 | 19 | 65 |




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 939 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

**LEGEND:**

(T) Electronic Toll Equipment

## TABLE 13

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH | | SPAN LENGTH | | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | D1 | D2 | L1 | L2 | | | | | V1 | V2 | | | |
| OS20-1 | IX | 16.6' | 8'-10" | 8'-10" | 26.0' | 30.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 3/4 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 18.5' | 0.25" | 0.5" | 333.67' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS20-1 (GANTRY) LAYOUT

SDS-20

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:58
FILE => 0420000235oc020.dgn USERNAME => p302438

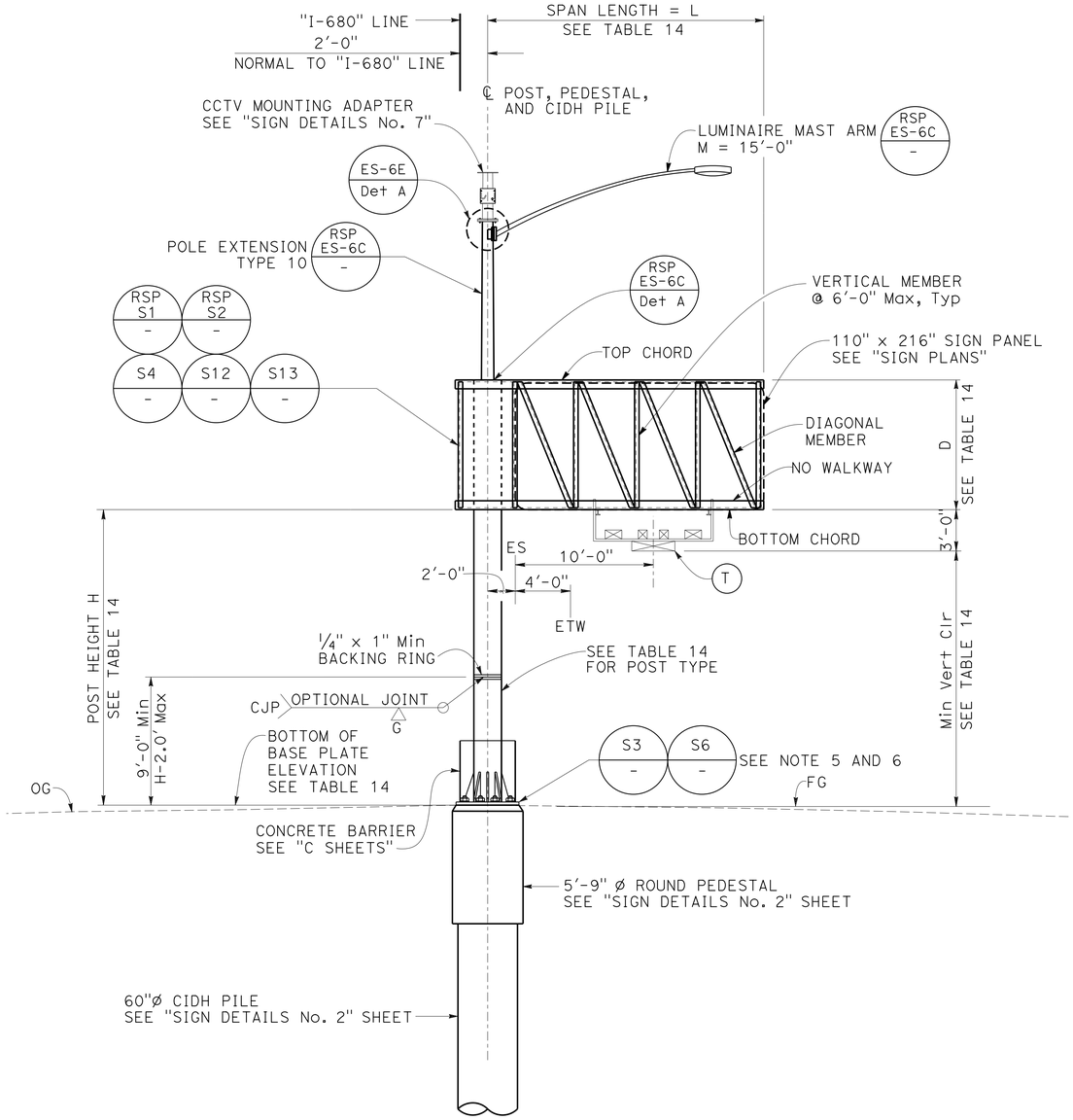
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 07-31-20 / 08-30-21 / 09-29-21

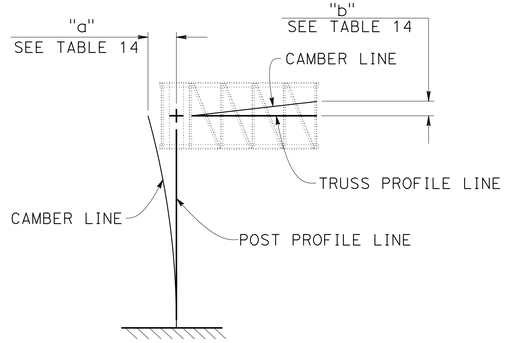
SHEET 20 OF 65




"I-680" 455+75.50 FSBT
(TOLL SITE NO. 47)

## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 940 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

**LEGEND:**

(T) Electronic Toll Equipment

## TABLE 14

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS22-1 | VI | 21.4' | 8'-10" | 21.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 1/2 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 0.75" | 1" | 333.04' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS22-1 (GANTRY) LAYOUT

SDS-21

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:58
FILE => 0420000235oc021.dgn USERNAME => p302438

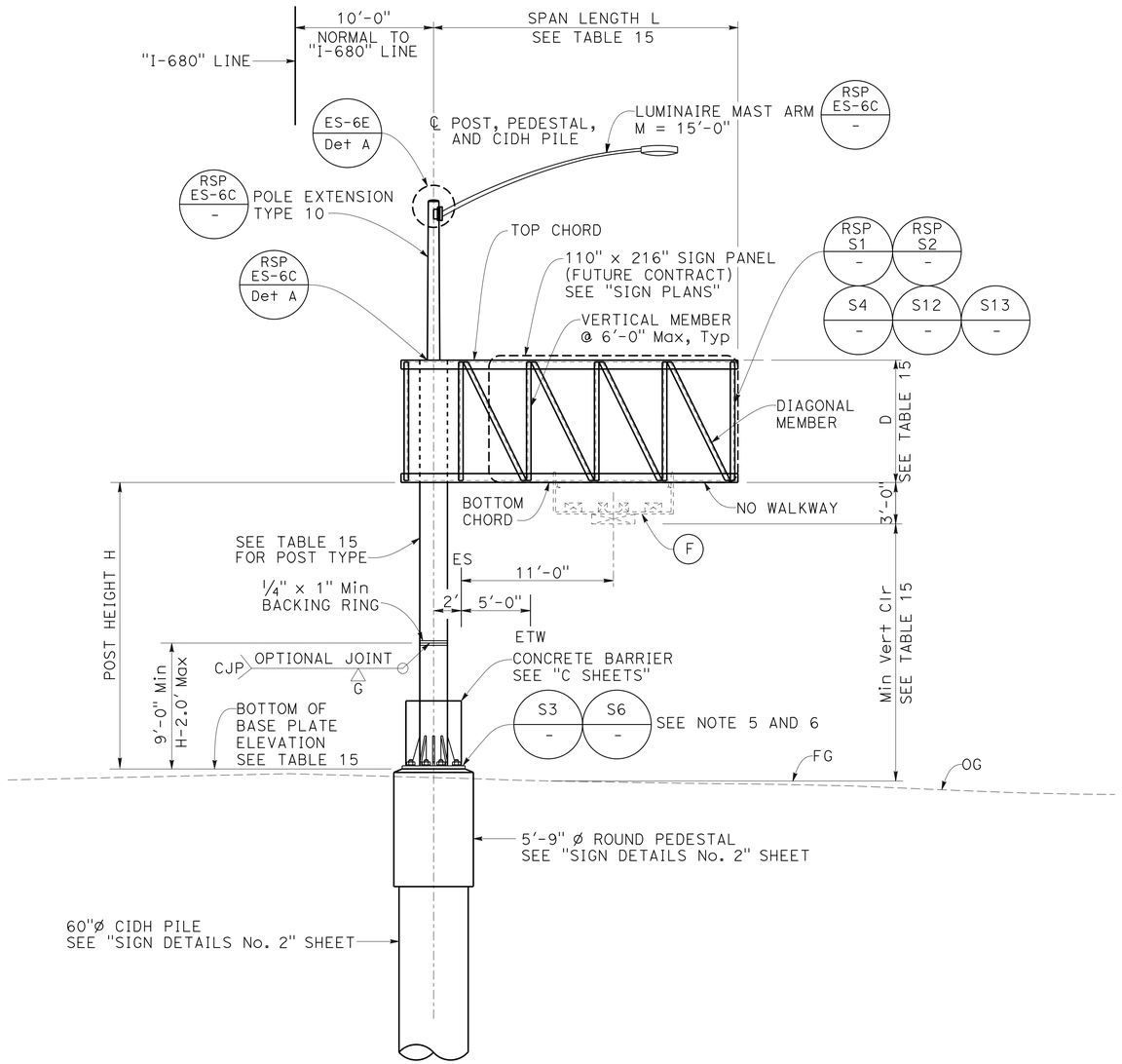
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 07-31-20 / 08-30-21 09-29-21

SHEET 21 OF 65

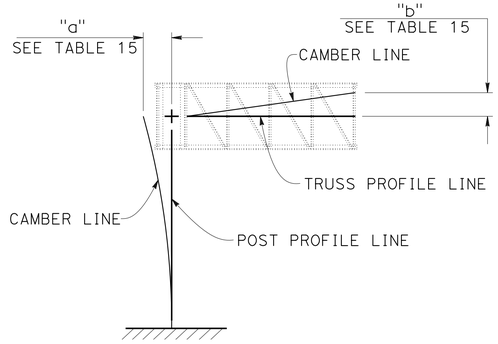



10.0' Rt "I-680" 454+24.50 FNBT
(TOLL SITE No. 47)

## ELEVATION

3/16" = 1'-0"

Note: Only foundation to be constructed at this location. Other information and details of post, truss frame, and sign panel shown are for future construction.




## CAMBER DIAGRAM

NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 941 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

**LEGEND:**

(F) Future Electronic Toll Equipment mounted on overhead sign structure.

## TABLE 15

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS22-2 | VI | 20.7' | 8'-10" | 22.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 1/2 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 0.75" | 1" | 333.22' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS22-2 (GANTRY) LAYOUT

SDS-22

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:58
FILE => 0420000235oc022.dgn USERNAME => p302438

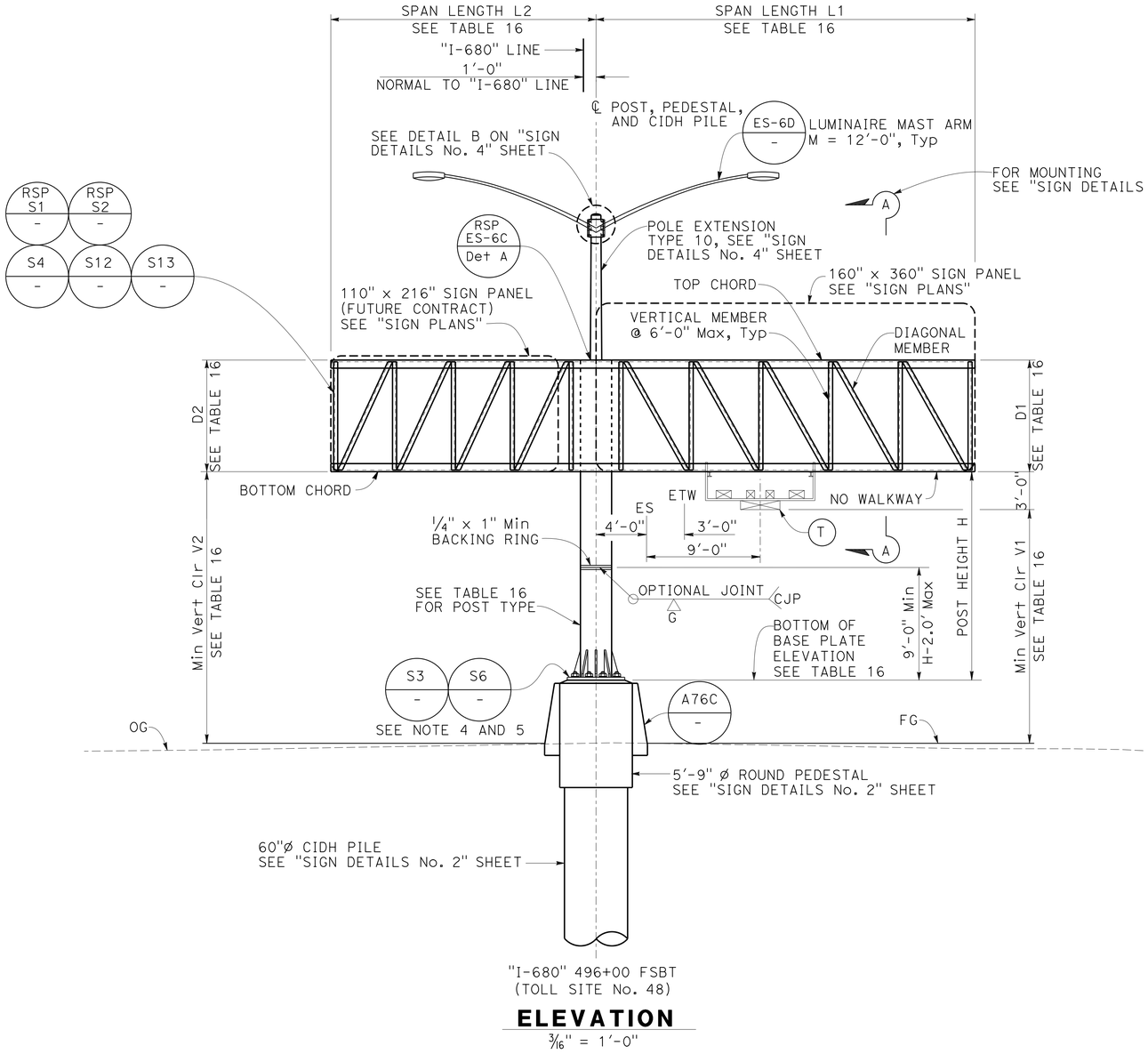
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

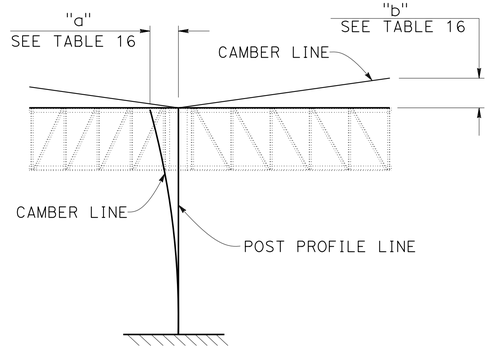
REVISION DATES: 07-31-20 / 08-30-21 09-29-21

SHEET 22 OF 65




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

**LEGEND:**

(T) Electronic Toll Equipment

## TABLE 16

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH | | SPAN LENGTH | | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | D1 | D2 | L1 | L2 | | | | | V1 | V2 | | | |
| OS25-1 | IX | 16.5' | 8'-10" | 8'-10" | 30.0' | 21.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 3/4 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 18.5' | 0.5" | 0.75" | 340.74' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 942 | 1710 |

REGISTERED CIVIL ENGINEER — DATE 9-29-21

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN — No. C56803 — Exp. 06-30-23 — CIVIL — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

DESIGN OVERSIGHT Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS25-1 (GANTRY) LAYOUT

SDS-23

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:58
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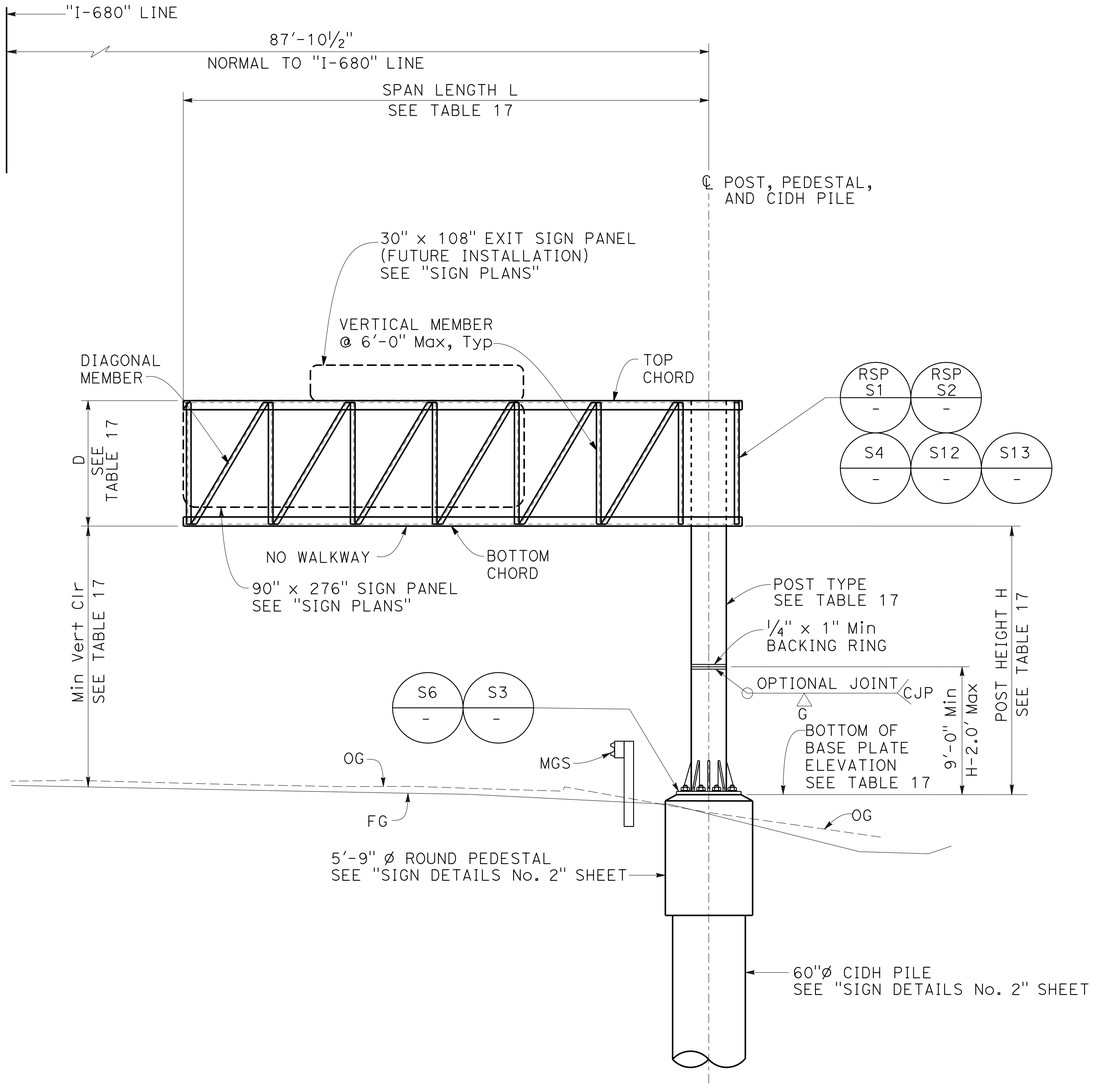
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

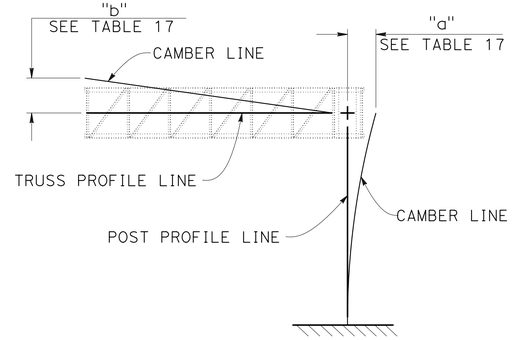
REVISION DATES: 07-31-20 / 08-30-21 / 09-29-21

SHEET 23 OF 65




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Provide handhole and couplings per Standard Plan RSP S2. Weld ¾" coupling or drill and tap for ¾" short nipple, same side as sign face. Plug with recessed pipe plug. See Standard Plan ES-15C.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.

**TABLE 17**

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS28-2 | VII | 19.0' | 8'-10" | 37'-0" | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x ½ | L's 3½ x 3½ x 5/16 | L's 2½ x 2½ x ¼ | 18.5' | 1" | 2.75" | 333.19' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 943 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

DESIGN OVERSIGHT Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS28-2 (GANTRY) LAYOUT

SDS-24

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:59
FILE => 0420000235oc024.dgn USERNAME => p302438

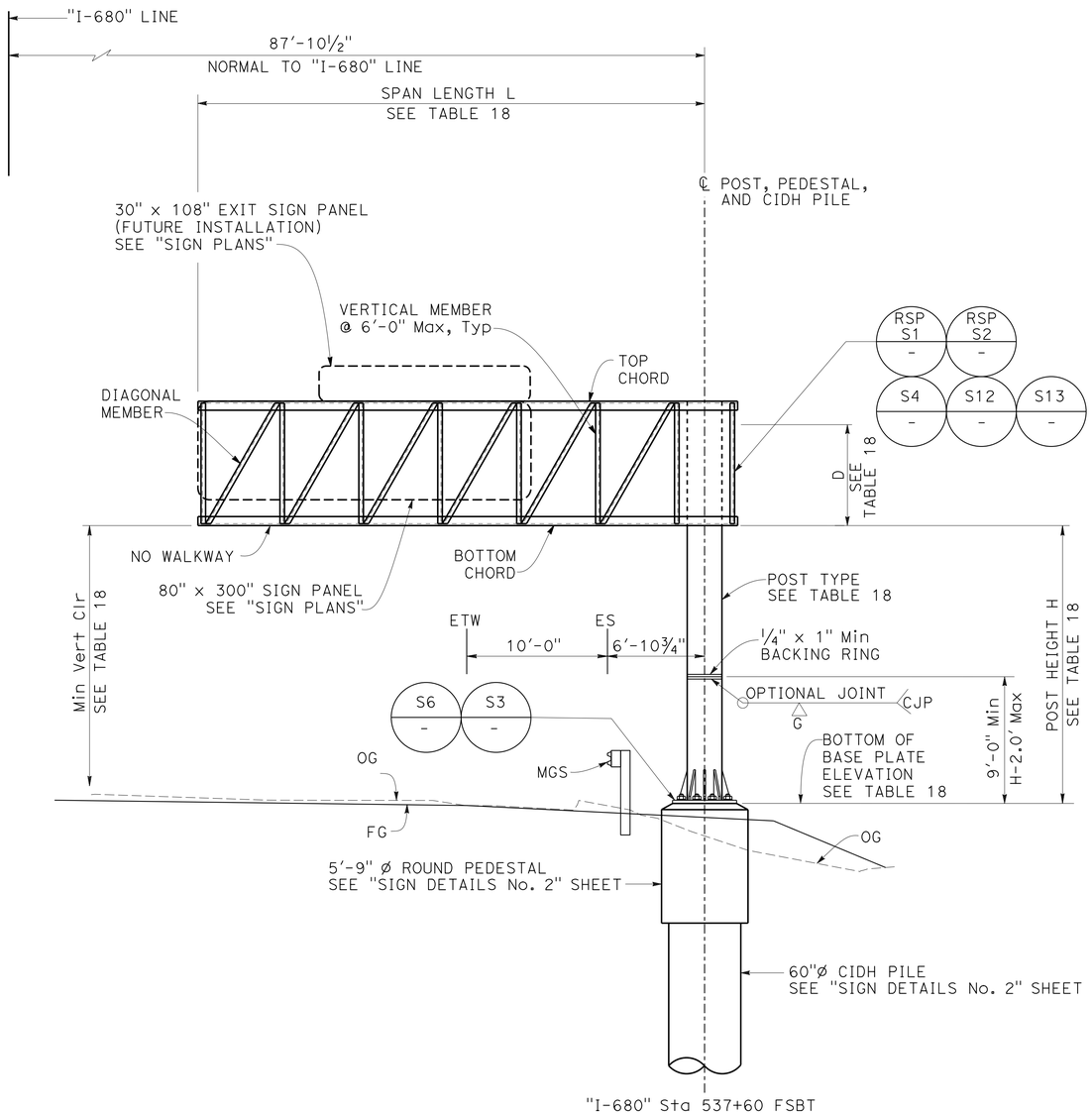
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

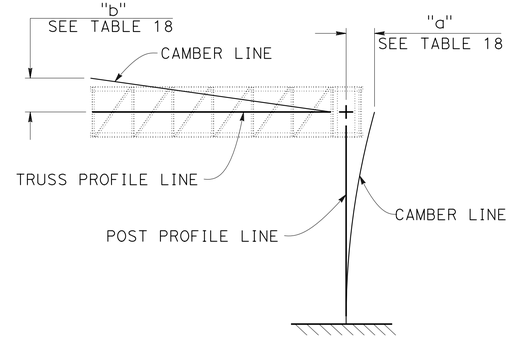
REVISION DATES: 07-31-20 / 08-30-21 09-29-21

SHEET 24 OF 65




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Provide handhole and couplings per Standard Plan RSP S2. Weld ¾" coupling or drill and tap for ¾" short nipple, same side as sign face. Plug with recessed pipe plug. See Standard Plan ES-15C.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.

**TABLE 18**

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS28-4 | VII | 19.8' | 8'-10" | 36'-0" | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x ½ | L's 3½ x 3½ x 5/16 | L's 2½ x 2½ x ¼ | 18.5' | 1" | 2.5" | 331.49' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 944 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

DESIGN OVERSIGHT Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS28-4 (GANTRY) LAYOUT

SDS-25

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:59
FILE => 0420000235oc025.dgn USERNAME => p302438

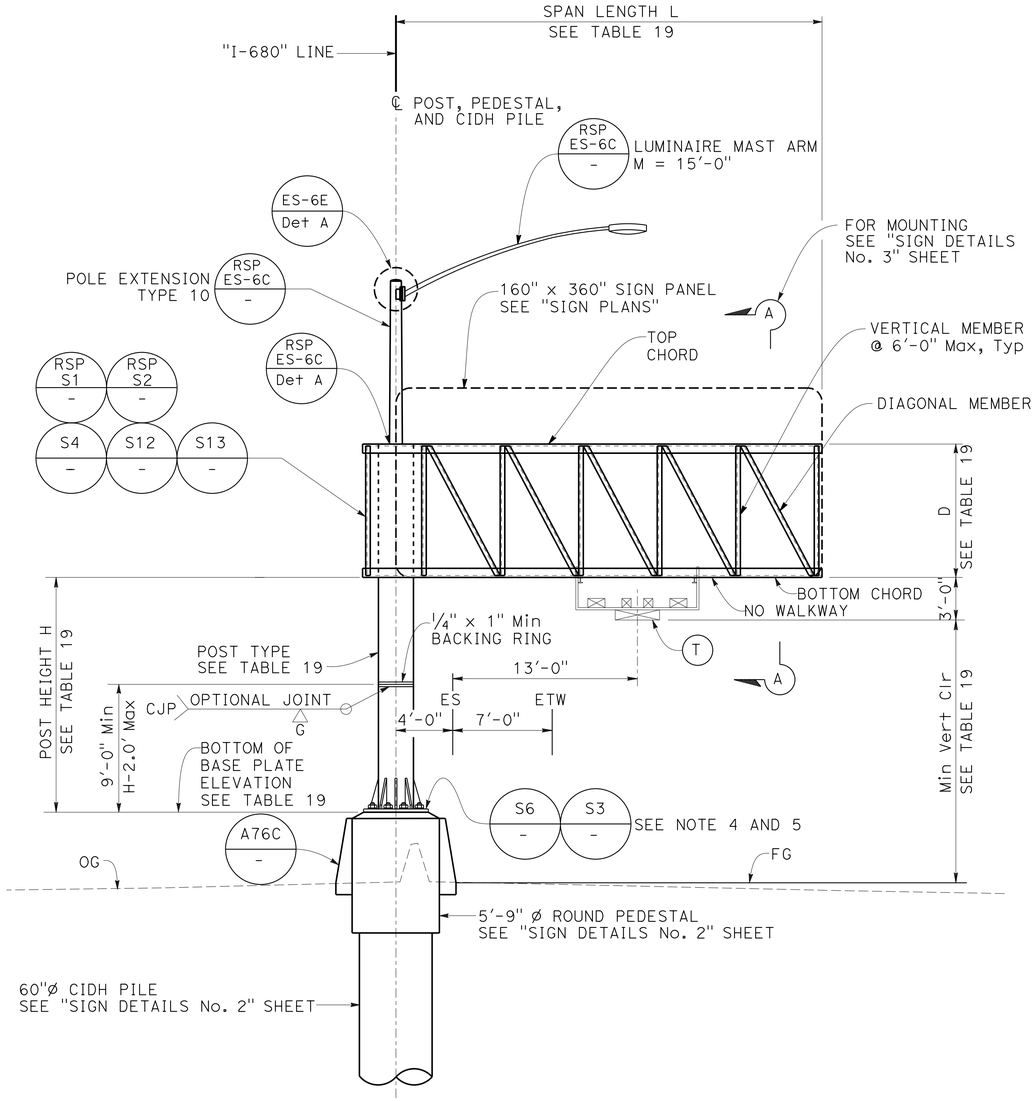
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 07-31-20 / 08-30-21 09-29-21

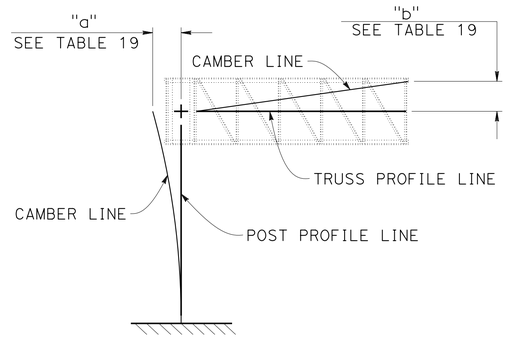
SHEET 25 OF 65




"I-680" Sta 537+60.92 FSBT
(TOLL SITE No. 49)

## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 945 | 1710 |

REGISTERED CIVIL ENGINEER — DATE 9-29-21

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

**LEGEND:**

(T) Electronic Toll Equipment

## TABLE 19

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS28-5 | VIII | 16.4' | 8'-10" | 30.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 3/4 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 0.75" | 1.75" | 338.68' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
# SIGN OS28-5 (GANTRY) LAYOUT

SDS-26

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:59
FILE => 0420000235oc026.dgn USERNAME => p302438

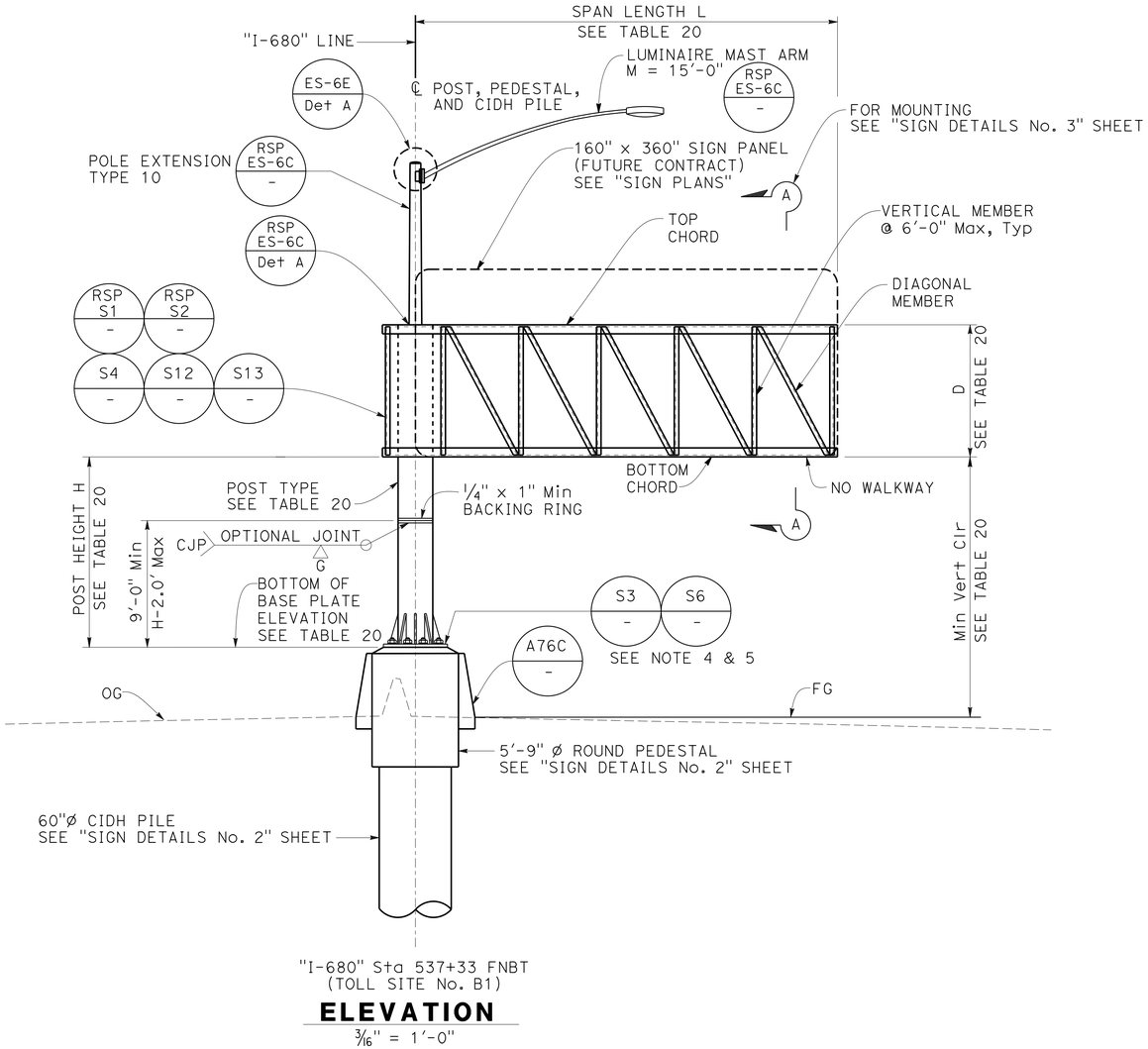
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES

| REVISION DATES | | |
|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 |

SHEET 26 OF 65

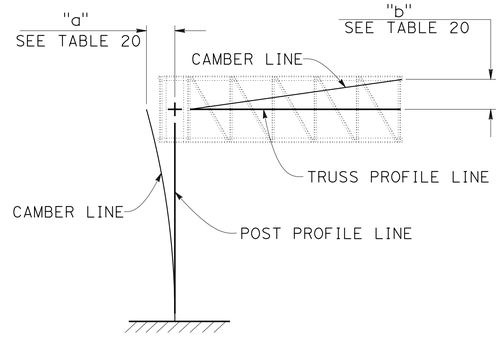



"I-680" Sta 537+33 FNBT
(TOLL SITE No. B1)

## ELEVATION

3/16" = 1'-0"

Note: Only foundation to be constructed at this location. Other information and details of post, truss frame, and sign panel shown are for future construction.




## CAMBER DIAGRAM

NO SCALE

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

## TABLE 20

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS28-6 | VIII | 13.4' | 8'-10" | 30.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 3/4 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 0.5" | 1.5" | 338.61' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 946 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

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4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS28-6 (GANTRY) LAYOUT

SDS-27

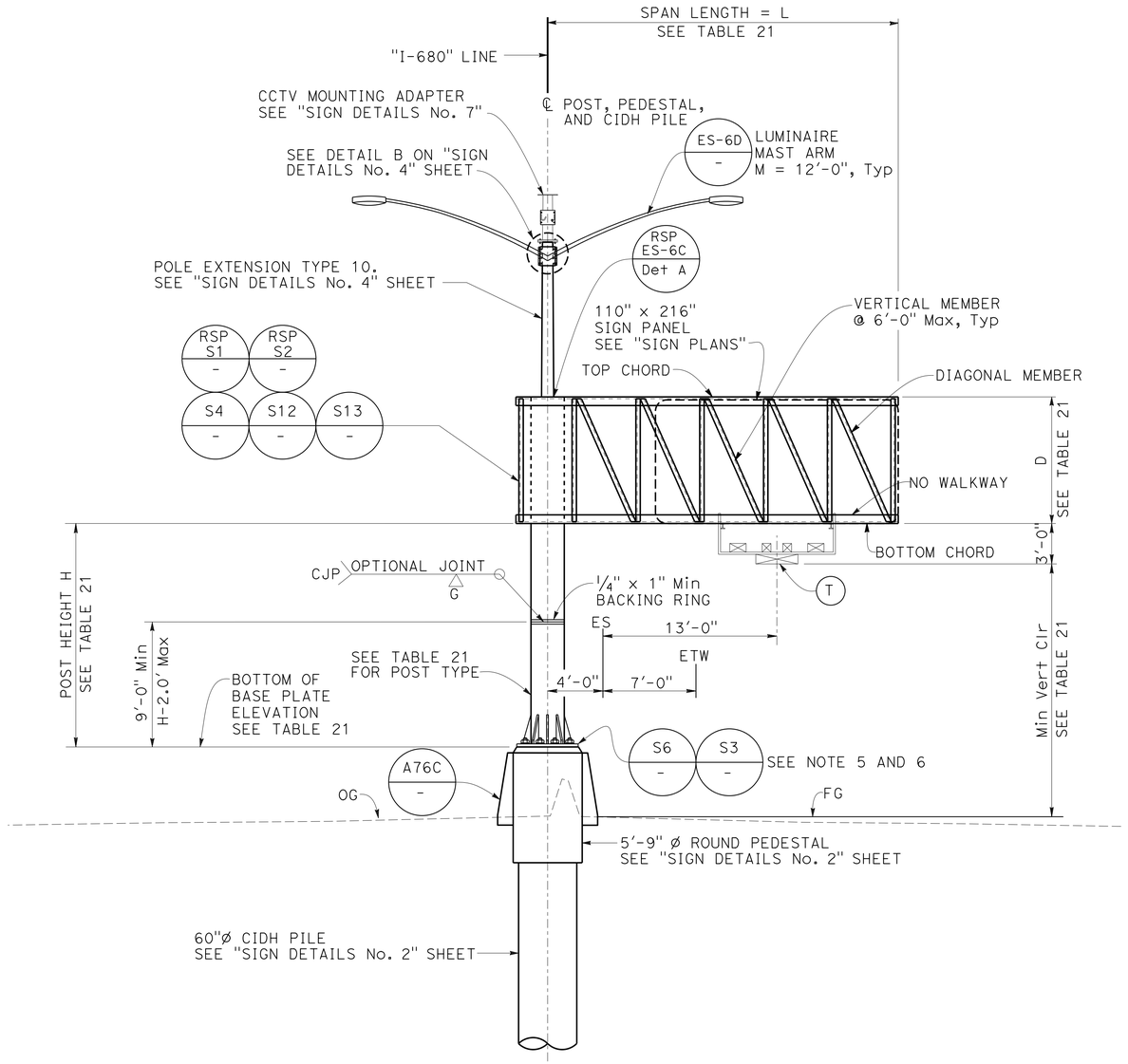
DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:59
FILE => 0420000235oc027.dgn USERNAME => p302438
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

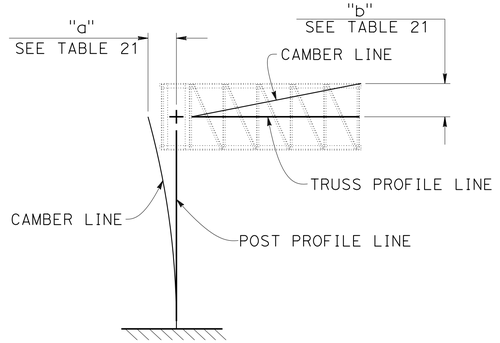
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | SHEET | OF |
|---|---|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 | 27 | 65 |




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 947 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

**LEGEND:**

(T) Electronic Toll Equipment

## TABLE 21

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS29-1 | VI | 16.4' | 8'-10" | 26.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 1/2 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 0.75" | 1.5" | 361.05' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Norbert Lee
DESIGN OVERSIGHT — Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
# SIGN OS29-1 (GANTRY) LAYOUT

SDS-28

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

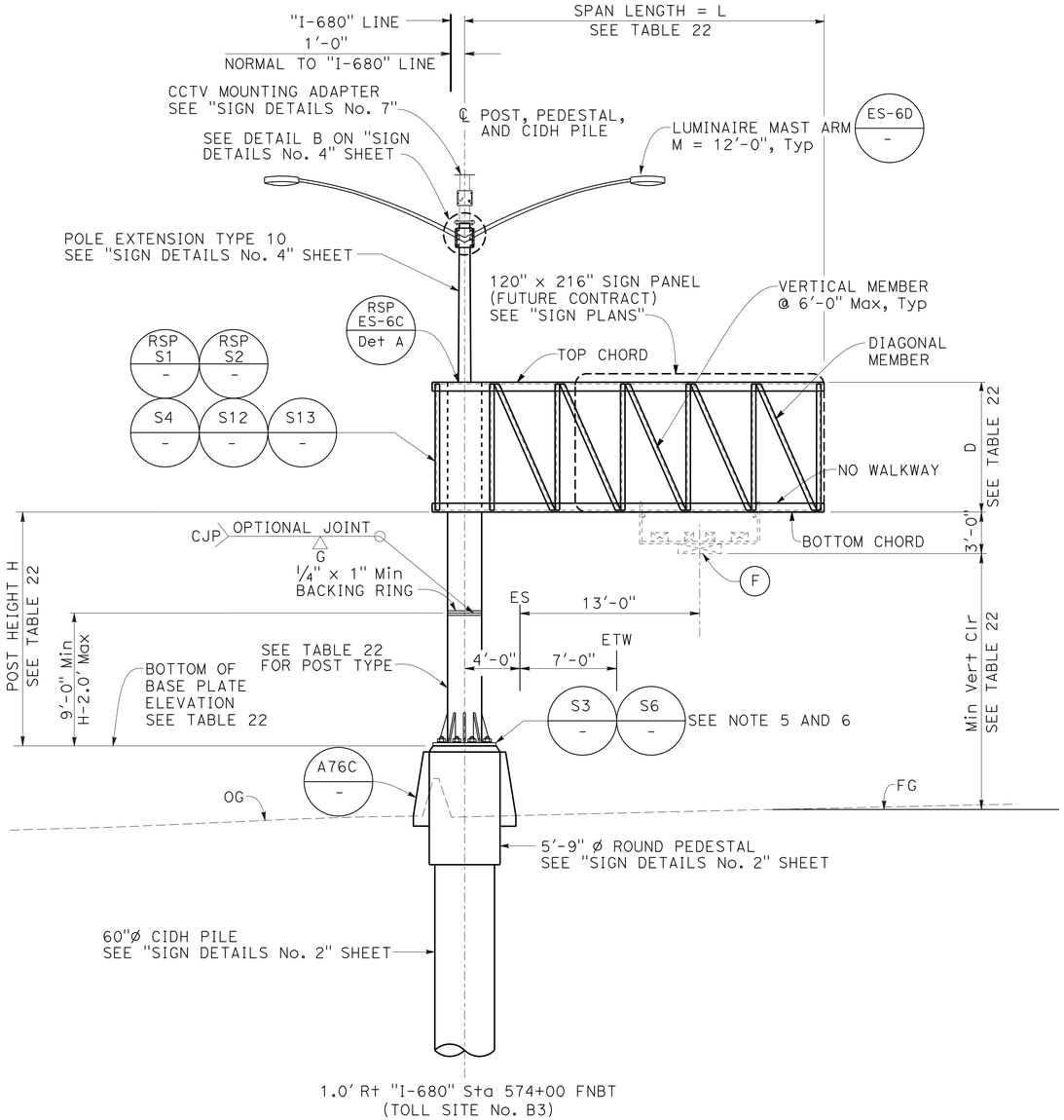
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:59
FILE => 0420000235oc028.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

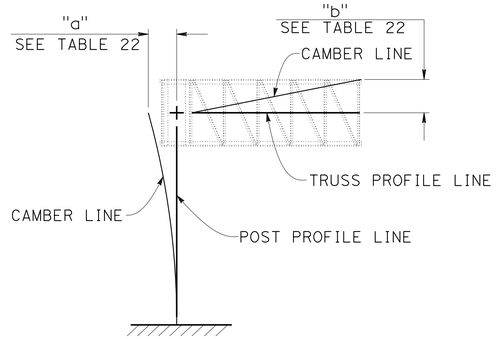
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | SHEET | OF |
|---|---|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 | 28 | 65 |




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 948 | 1710 |

REGISTERED CIVIL ENGINEER — DATE 9-29-21

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN — No. C56803 — Exp. 06-30-23 — CIVIL — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
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3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

**LEGEND:**

(F) Future Electronic Toll Equipment mounted on overhead sign structure.

## TABLE 22

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS30-2 | VII | 17.1' | 8'-10" | 26.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 1/2 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 0.75" | 1.5" | 364.01' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS30-2 (GANTRY) LAYOUT

SDS-29

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

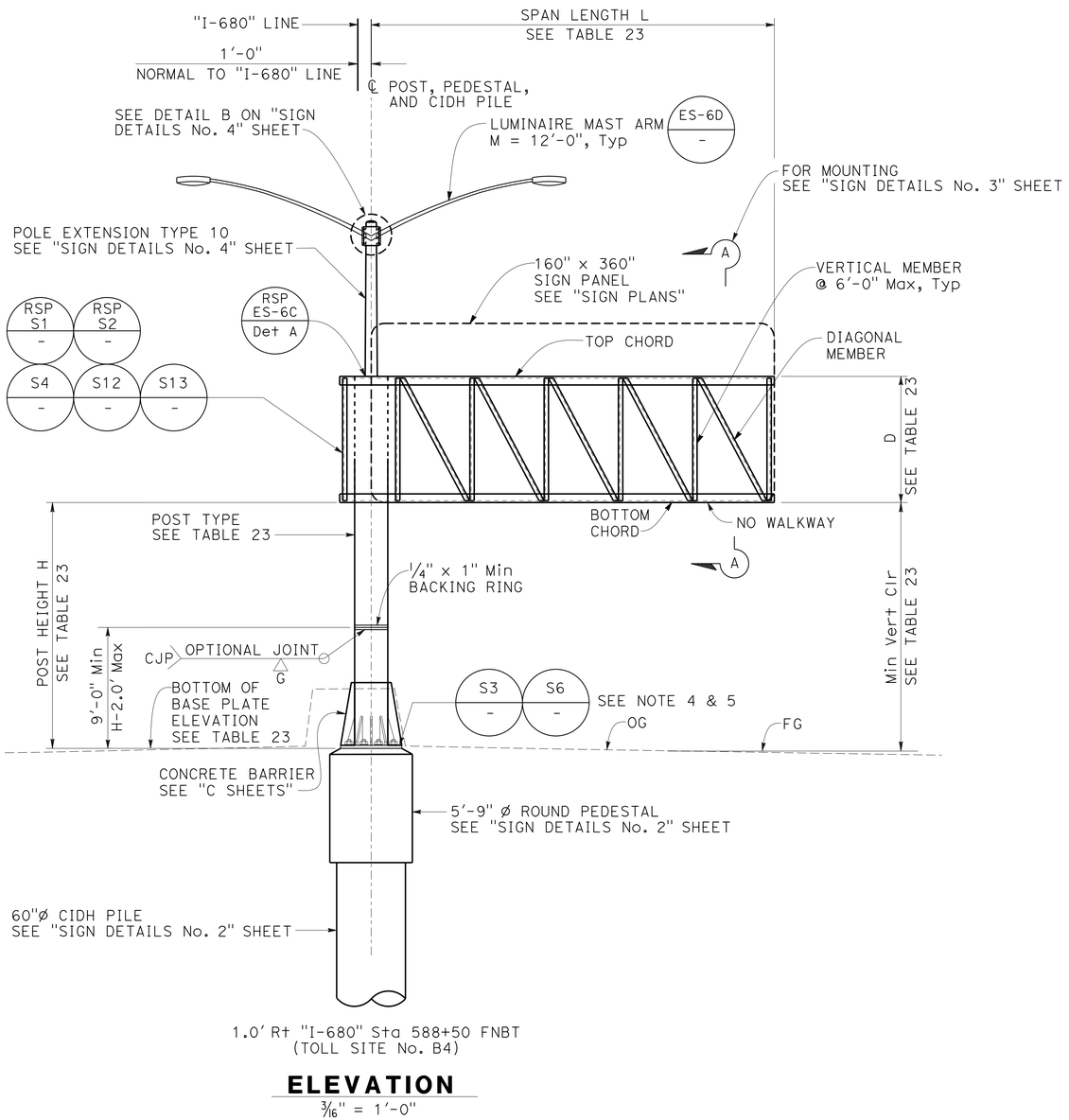
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:59
FILE => 0420000235oc029.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

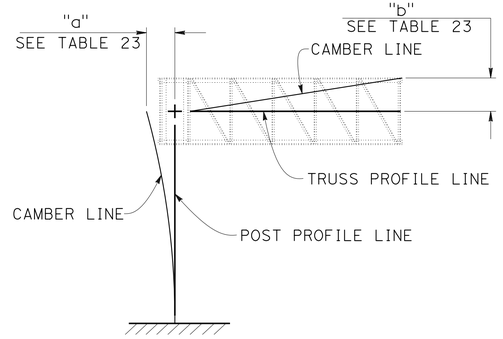
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | SHEET | OF |
|---|---|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 | 29 | 65 |




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 949 | 1710 |

REGISTERED CIVIL ENGINEER — DATE 9-29-21

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN — No. C56803 — Exp. 06-30-23 — CIVIL — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

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AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

## TABLE 23

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS31-3 | VIII | 18.3' | 8'-10" | 30.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 3/4 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 0.75" | 1.75" | 355.63' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT — Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS31-3 (GANTRY) LAYOUT

SDS-30

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

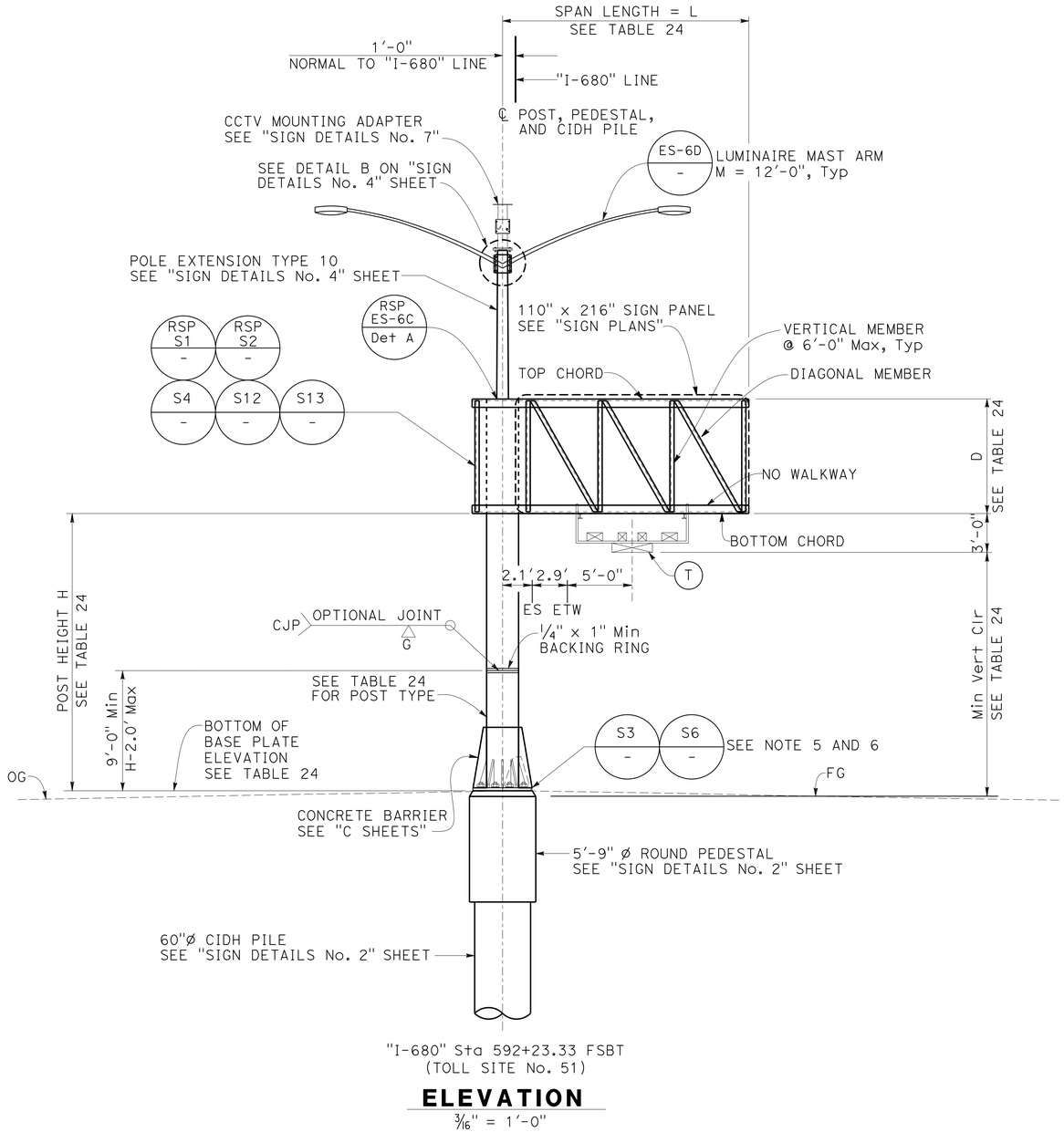
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:59
FILE => 0420000235oc030.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

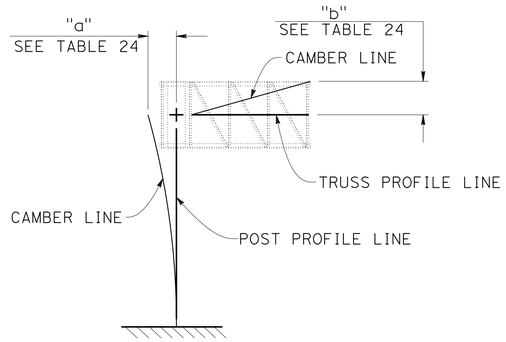
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | SHEET | OF |
|---|---|---|---|
| 07-31-20 | 08-30-21 09-29-21 | 30 | 65 |




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 950 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

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SAN JOSE, CA 95113

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

**LEGEND:**

(T) Electronic Toll Equipment

## TABLE 24

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS32-2 | VI | 21.4' | 8'-10" | 19.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 1/2 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 0.75" | 0.75" | 356.52' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS32-2 (GANTRY) LAYOUT

SDS-31

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:59
FILE => 0420000235oc031.dgn USERNAME => p302438

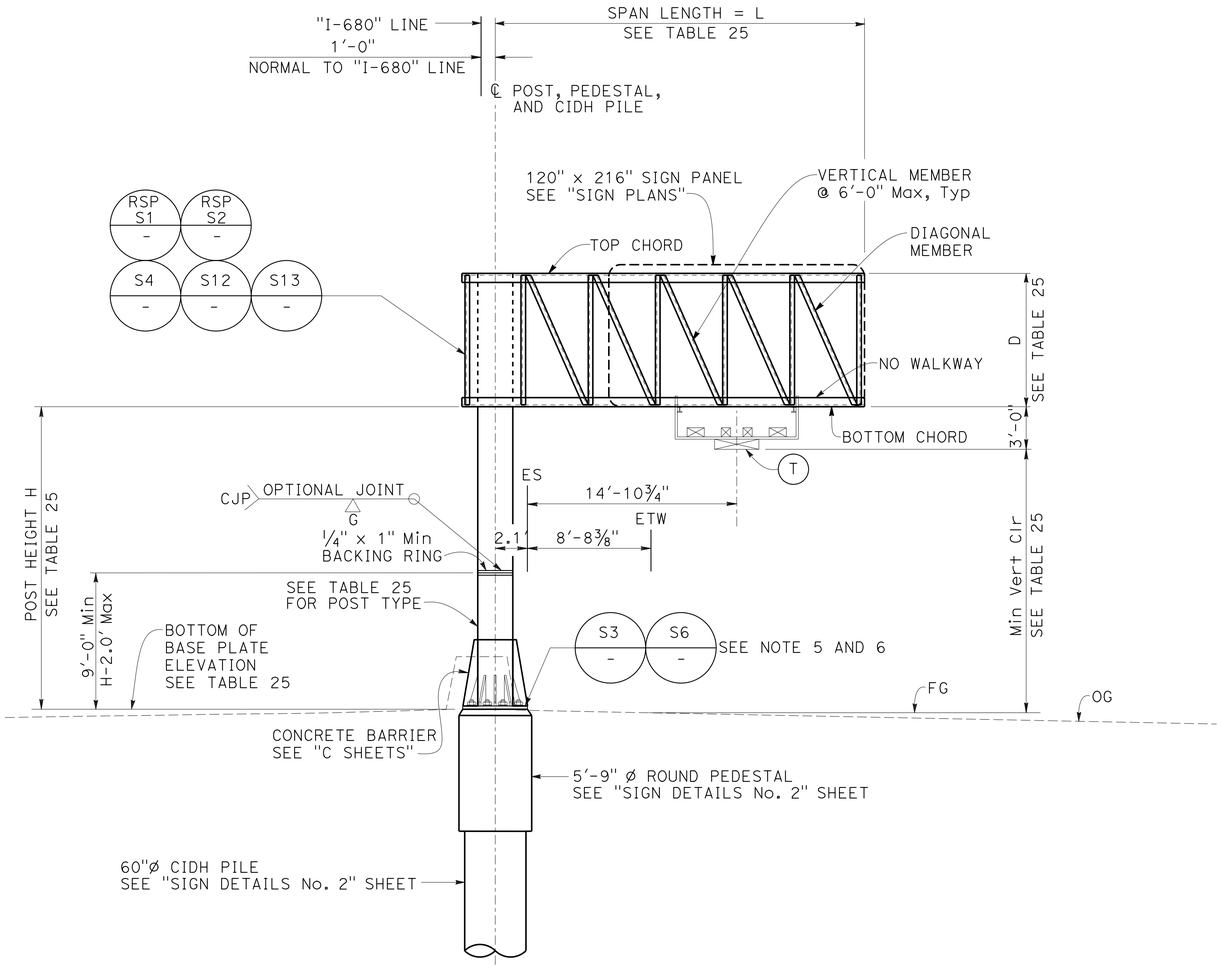
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351
CONTRACT No.: EA 04-0030U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 07-31-20 / 08-30-21 / 09-29-21

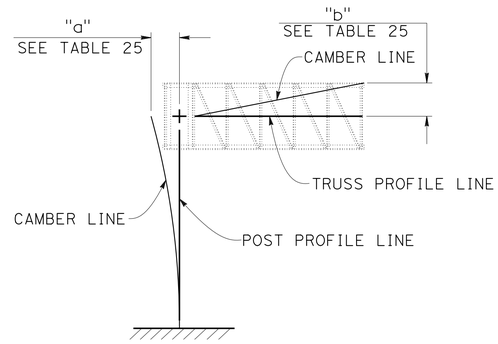
SHEET 31 OF 65




1.0' Rt "I-680" Sta 604+00 FNBT
(TOLL SITE NO. B6)

## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

**LEGEND:**

(T) Electronic Toll Equipment

## TABLE 25

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS32-3 | VII | 21.3' | 8'-10" | 26.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x ½ | L's 3½ x 3½ x 5/16 | L's 2½ x 2½ x ¼ | 18.5' | 0.75" | 1.25" | 359.92' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 951 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

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AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

DESIGN OVERSIGHT — Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS32-3 (GANTRY) LAYOUT

SDS-32

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 14:59
FILE => 0420000235oc032.dgn USERNAME => p302438

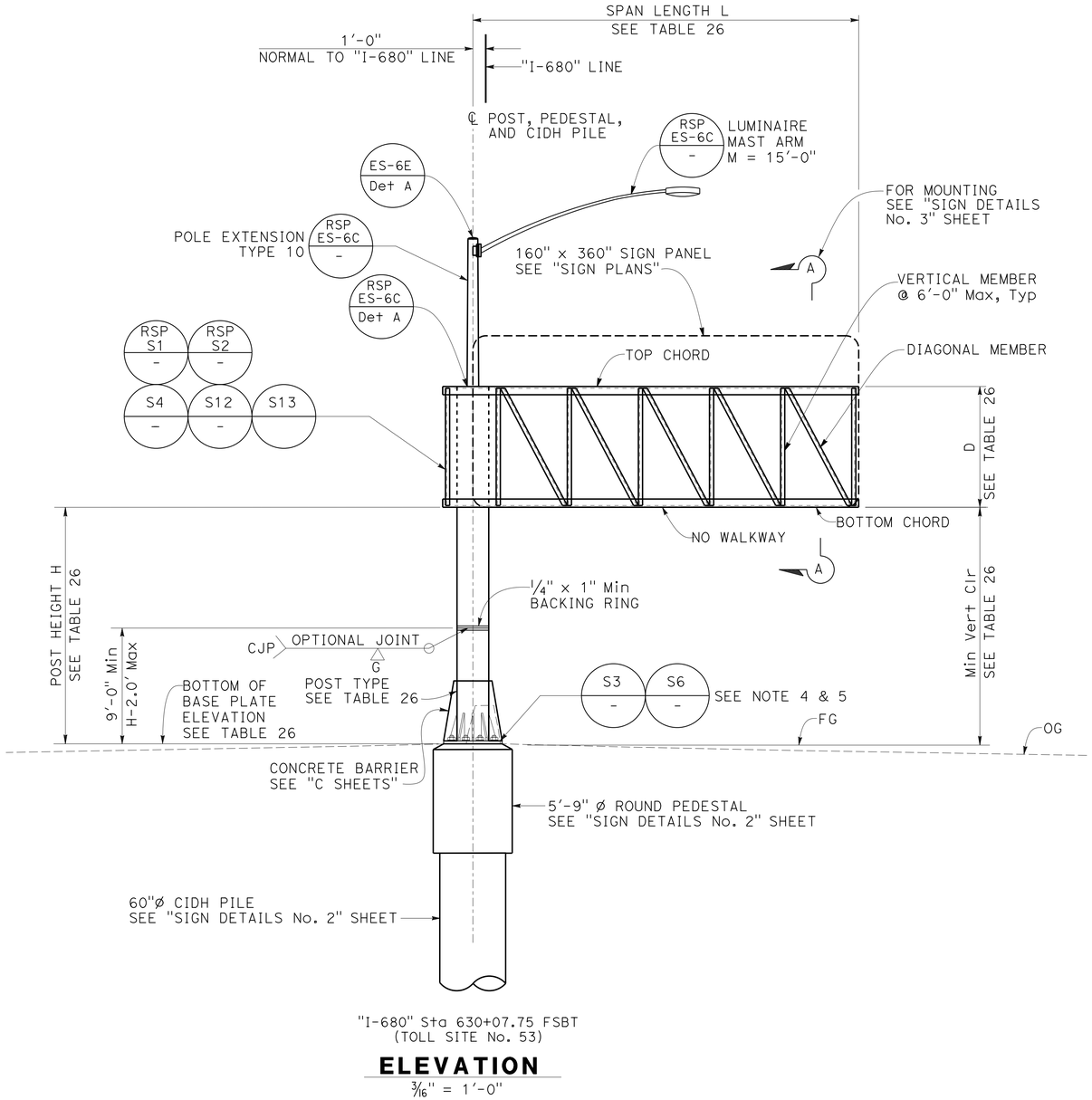
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

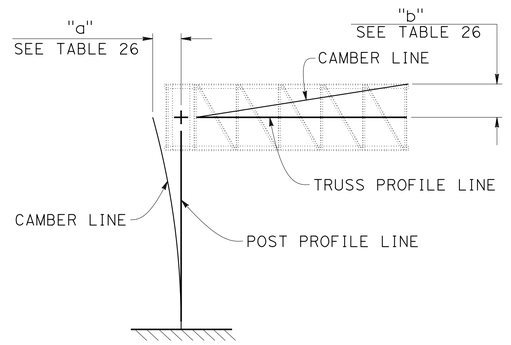
REVISION DATES: 07-31-20 / 08-30-21 / 09-29-21

SHEET 32 OF 65




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 952 | 1710 |

REGISTERED CIVIL ENGINEER — DATE 9-29-21

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

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SAN JOSE, CA 95113

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Standard handhole and coupling are replaced with special handhole and coupling. See "SIGN DETAILS No. 6" for locations of special handhole and coupling.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
5. See "SIGN DETAILS No. 5" sheet for base plate opening for electrical conduits.
6. See "SIGN DETAILS No. 6" for additional details not shown.

## TABLE 26

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS34-1 | VIII | 18.4' | 8'-10" | 30.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 3/4 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 0.75" | 1.75" | 367.12' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
# SIGN OS34-1 (GANTRY) LAYOUT

SDS-33

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

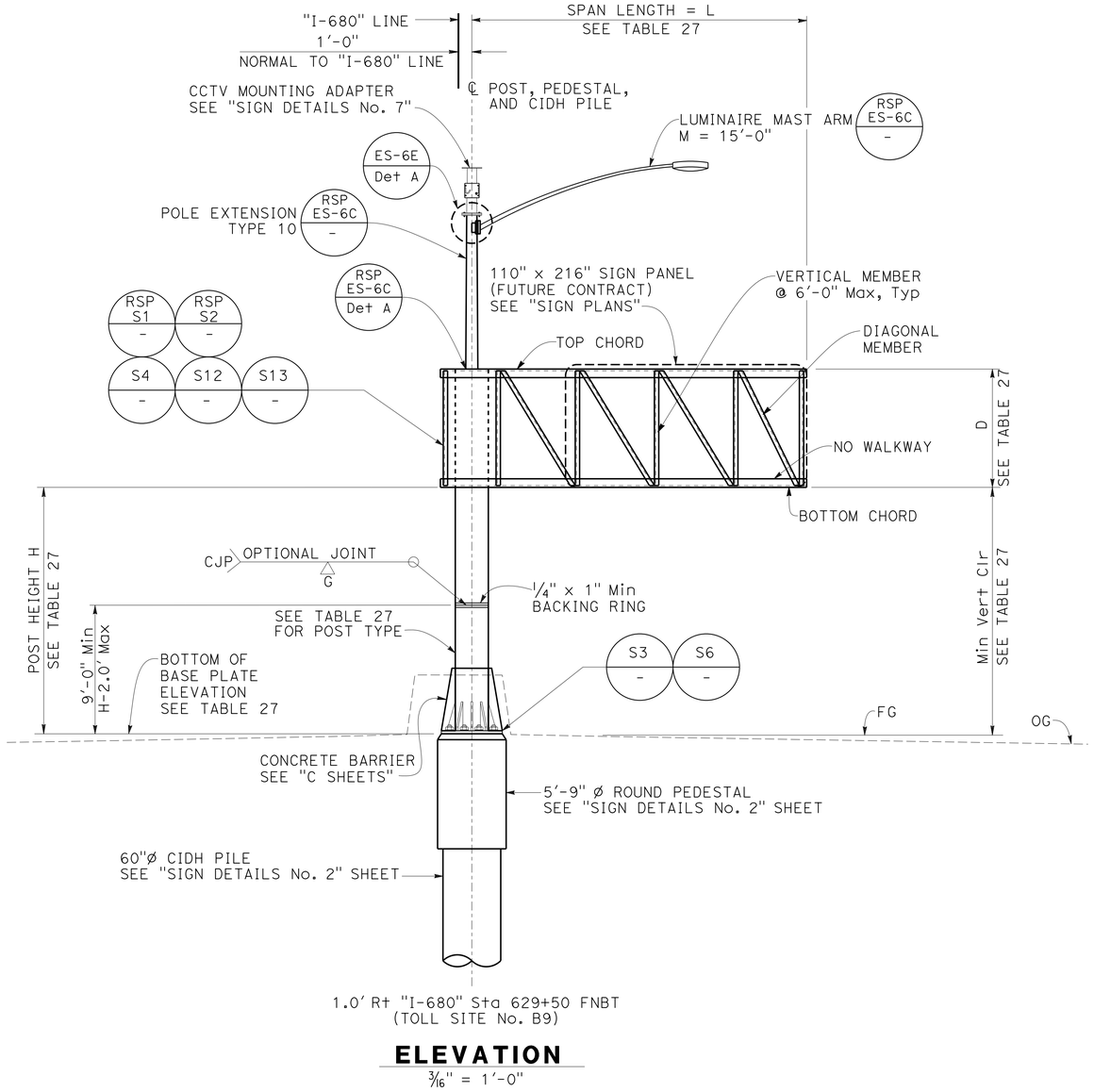
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:00
FILE => 0420000235oc033.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

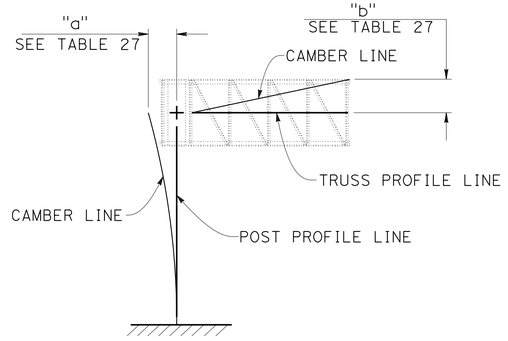
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | SHEET | OF |
|---|---|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 | 33 | 65 |




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Provide handhole and couplings per Standard Plan RSP S2. Weld ¾" coupling or drill and tap for ¾" short nipple, same side as sign face. Plug with recessed pipe plug. See Standard Plan ES-15C.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.

## TABLE 27

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS34-2 | VI | 18.3' | 8'-10" | 25.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 5 x 5 x 1/2 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 0.75" | 1.25" | 366.94' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 953 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

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SAN JOSE, CA 95113

DESIGN OVERSIGHT Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS34-2 (GANTRY) LAYOUT

SDS-34

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:00
FILE => 0420000235oc034.dgn USERNAME => p302438

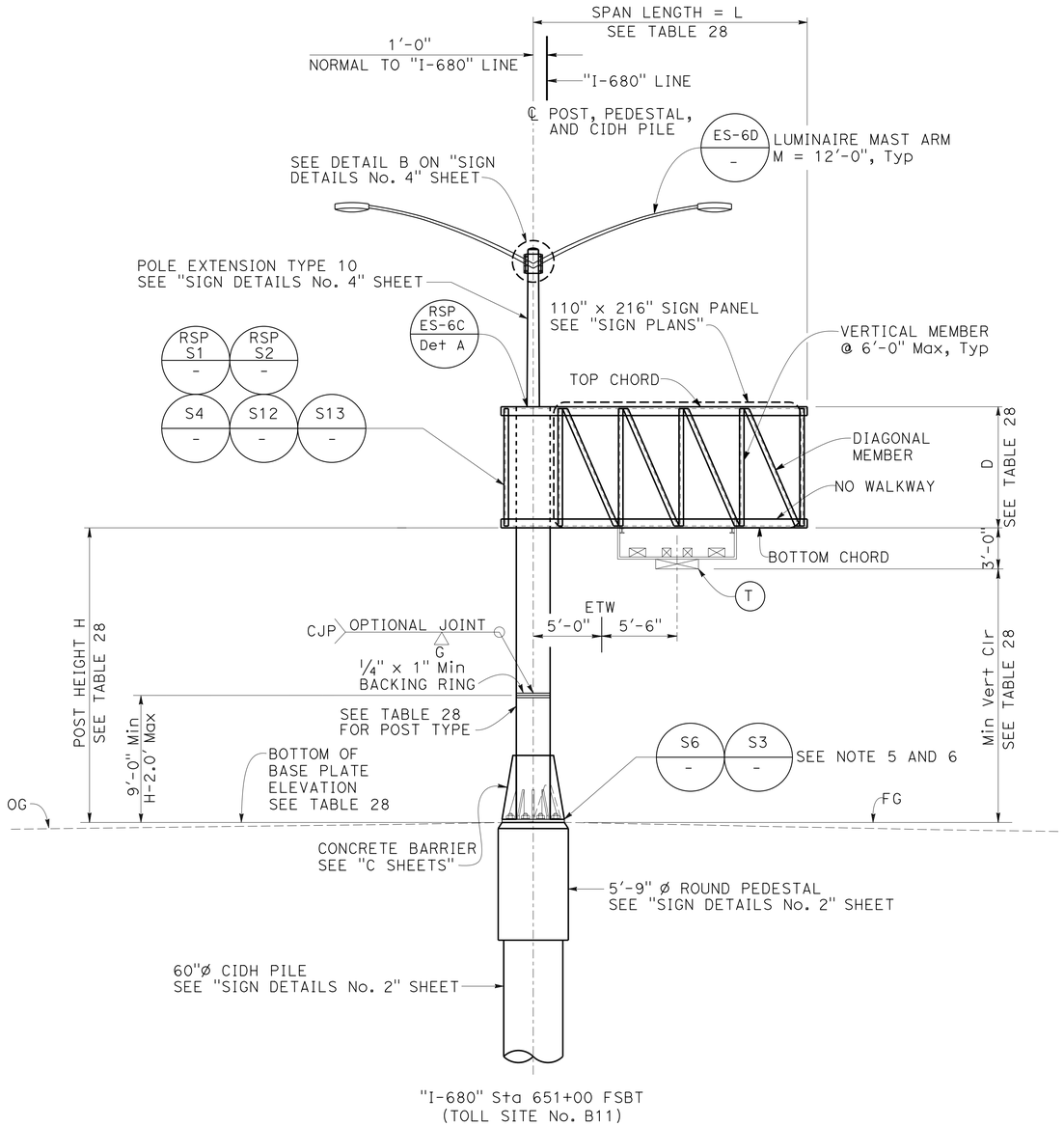
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

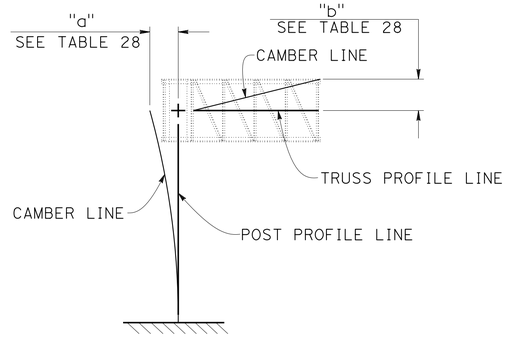
REVISION DATES: 07-31-20 / 08-30-21 09-29-21

SHEET 34 OF 65




## ELEVATION

3/16" = 1'-0"




## CAMBER DIAGRAM

NO SCALE

**NOTES:**

1. For J-Hook, upper handhole and recessed coupling, see "SIGN DETAILS No. 6" sheet.
2. Provide handhole and couplings per Standard Plan RSP S2. Weld 3/4" coupling or drill and tap for 3/4" short nipple, same side as sign face. Plug with recessed pipe plug. See Standard Plan ES-15C.
3. See Standard Plan S19 for sign mounting details not noted.
4. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.

**LEGEND:**

(T) Electronic Toll Equipment

## TABLE 28

| SIGN No. | POST TYPE | POST HEIGHT H | FRAME DEPTH D | SPAN LENGTH L | FRAME WIDTH | TOP AND BOTTOM CHORD | VERTICAL AND DIAGONAL | WIND BRACING | Min Vert Clr | a | b | BOTTOM OF BASE PLATE ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS36-1 | VI | 21.5' | 8'-10" | 20.0' | SEE NOTE 1 ON STANDARD PLAN S5 | L's 6 x 6 x 1/2 | L's 3 1/2 x 3 1/2 x 5/16 | L's 2 1/2 x 2 1/2 x 1/4 | 18.5' | 0.75" | 1" | 379.45' |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 954 | 1710 |

REGISTERED CIVIL ENGINEER — DATE: 9-29-21

DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

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SAN JOSE, CA 95113

DESIGN OVERSIGHT: Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN OS36-1 (GANTRY) LAYOUT

SDS-35

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:00
FILE => 0420000235oc035.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 07-31-20 / 08-30-21 / 09-29-21

SHEET 35 OF 65

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 955 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

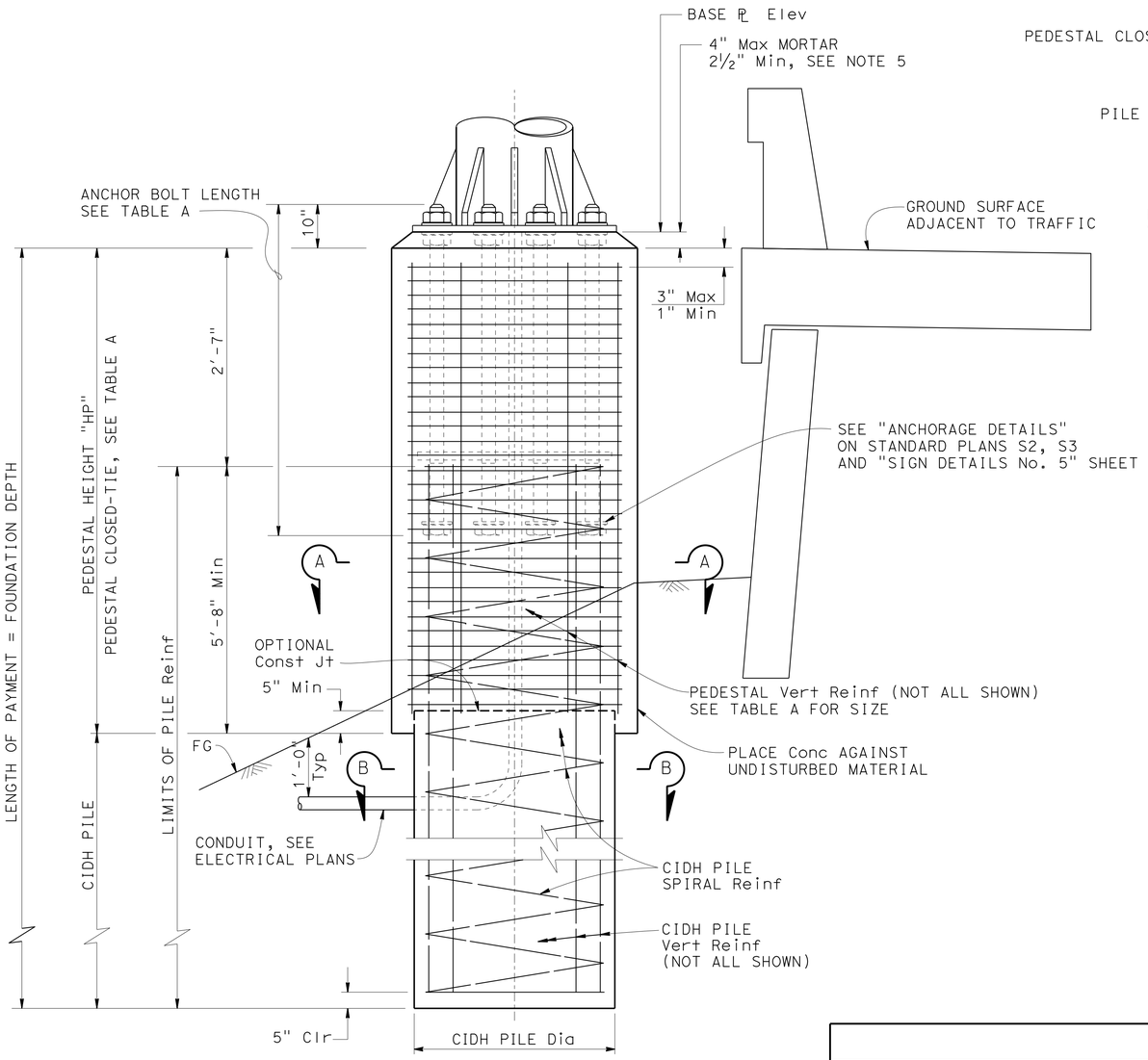
October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

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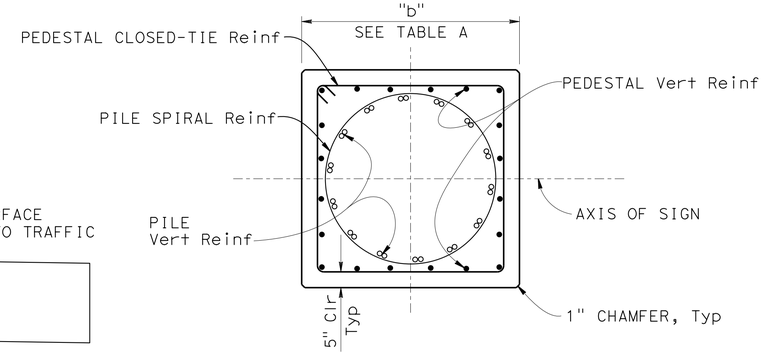
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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

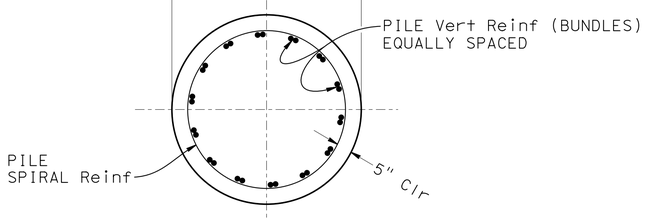



DETAIL AT OS6-2 SHOWN,
AT OS8-1 AND OS8-2 SIMILAR

## DETAIL A
NO SCALE




## SECTION A-A
½" = 1'-0"




## SECTION B-B
½" = 1'-0"

**NOTES:**

1. For anchor bolt layout, see Standard Plan S3 and "BASE PLATE DETAILS SINGLE POST TYPE" on "SIGN DETAILS No. 5" sheet.
2. For "Base ℄ Elevation", see "SDS-8" TO "SDS-10".
3. Prior to erection of the post, backfill which is equivalent to the surrounding material shall be in place.
4. Pedestal shall be 6" minimum below ground surface. Remainder to be placed against undisturbed material.
5. For drain holes and central void in mortar, see Standard Plan ES-6B (Detail N).
6. Inspection tubes must be provided in all piles except dry and dewatered holes. For alternate pile section (with inspection tubes), see "SIGN DETAILS No. 3" sheet.

## TABLE A

| SIGN STRUCTURE | POST TYPE | ANCHOR BOLTS | | | | SQUARE PILE PEDESTAL | | | | | | | CIDH PILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | BOLT CIRCLE | Qty | LENGTH | Dia | HEIGHT "HP" | "b" | VERTICAL REINFORCING | | | CLOSED-TIE | | Dia | VERTICAL REINFORCING | | SPIRAL REINFORCING | | FOUNDATION DEPTH |
| | | | | | | | | TOTAL | BAR SIZE | No. of BAR EACH FACE | BAR SIZE | SPACING | | TOTAL | BAR SIZE | BAR SIZE | PITCH | |
| OS6-1 | IX | 2'-10" | 16 | 6'-0" | 2½" | 13'-8" | 5'-9" | 20 | #11 | 5 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 39'-6" |
| OS6-2 | VII | 2'-10" | 16 | 5'-0" | 2½" | 13'-4" | 5'-9" | 20 | #11 | 6 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 36'-0" |
| OS8-1 | VIII | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 20 | #11 | 6 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 30'-0" |
| OS8-2 | SPECIAL (NPS = 24" AND THICKNESS = 1.219") | 2'-10" | 16 | 6'-0" | 2½" | 8'-3" | 5'-9" | 20 | #11 | 6 | #5 | 3½" | 60" | 32 | #11 | #7 | 7" | 33'-0" |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN DETAILS No. 1

SDS-36

DESIGN DETAIL SHEET
(ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:00
FILE => 0420000235oc036.dgn USERNAME => p302438

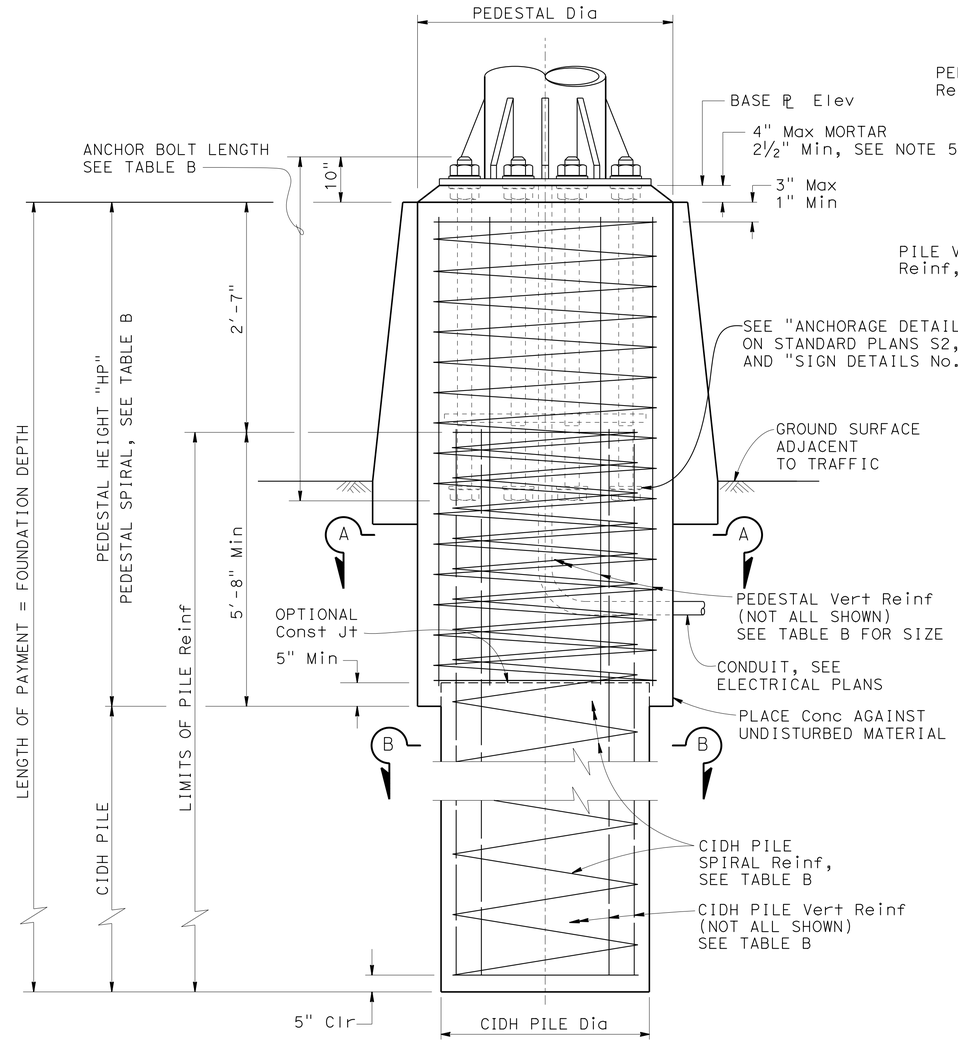
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

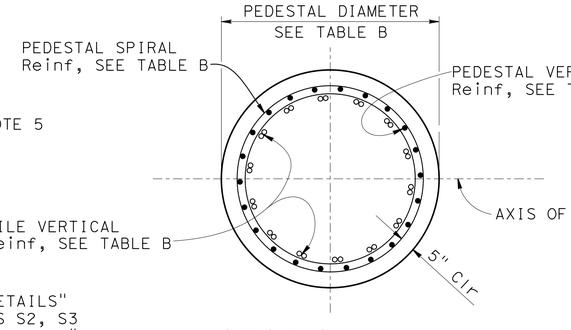
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | |
|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 |

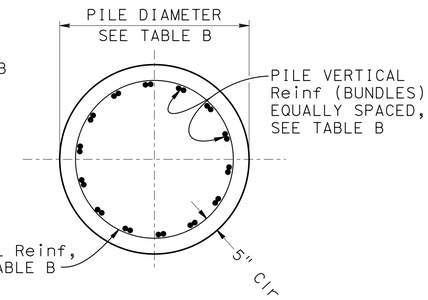
SHEET 36 OF 65




**DETAIL A**
NO SCALE




**SECTION A-A**
½" = 1'-0"




**SECTION B-B**
½" = 1'-0"

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 956 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

**TABLE B**

| SIGN STRUCTURE | POST TYPE | ANCHOR BOLTS | | | | ROUND PILE PEDESTAL | | | | | | CIDH PILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | BOLT CIRCLE | Qty | LENGTH | Dia | HEIGHT "HP" | Dia | VERTICAL REINFORCING | | SPIRAL REINFORCING | | Dia | VERTICAL REINFORCING | | SPIRAL REINFORCING | | FOUNDATION DEPTH |
| | | | | | | | | TOTAL | BAR SIZE | BAR SIZE | PITCH | | TOTAL | BAR SIZE | BAR SIZE | PITCH | |
| OS22-1 | VI | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 20 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 28'-0" |
| OS22-2 | VI | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 20 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 28'-0" |
| OS29-1 | VI | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 20 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 28'-0" |
| OS32-2 | VI | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 20 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 24'-0" |
| OS34-2 | VI | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 20 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 24'-0" |
| OS36-1 | VI | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 20 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 28'-0" |
| OS9-1 | VII | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 20 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 24'-0" |
| OS14-2 | VII | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 20 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 30'-0" |
| OS14-3 | VII | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 20 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 29'-0" |
| OS18-1 | VII | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 20 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 31'-0" |
| OS19-2 | VII | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 20 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 27'-0" |
| OS19-3 | VII | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 20 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 27'-0" |
| OS28-2 | VII | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 20 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 26'-0" |
| OS28-4 | VII | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 20 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 25'-0" |
| OS30-2 | VII | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 20 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 31'-0" |
| OS32-3 | VII | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 20 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 24'-0" |
| OS34-1 | VIII | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 22 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 28'-0" |
| OS28-5 | VIII | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 22 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 34'-0" |
| OS28-6 | VIII | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 22 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 34'-0" |
| OS31-3 | VIII | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 22 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 28'-0" |
| OS10-1 | SPECIAL (NPS = 24" AND THICKNESS = 1.219") | 2'-10" | 16 | 6'-0" | 2½" | 8'-3" | 5'-9" | 22 | #11 | #5 | 3½" | 60" | 32 | #11 | #7 | 7" | 28'-0" |
| OS13-1 | IX | 2'-10" | 16 | 6'-0" | 2½" | 8'-3" | 5'-9" | 22 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 34'-0" |
| OS15-1 | SPECIAL (NPS = 24" AND THICKNESS = 1.531") | 2'-10" | 16 | 6'-0" | 2½" | 8'-3" | 5'-9" | 22 | #11 | #5 | 3½" | 60" | 32 | #11 | #7 | 7" | 34'-0" |
| OS20-1 | IX | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 22 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 35'-0" |
| OS25-1 | IX | 2'-10" | 16 | 5'-0" | 2½" | 8'-3" | 5'-9" | 22 | #11 | #5 | 3½" | 60" | 28 | #11 | #7 | 7" | 34'-0" |

**NOTES:**

1. For anchor bolt layout, see Standard Plan S3 and "BASE PLATE DETAILS SINGLE POST TYPE" on "SIGN DETAILS No. 5" sheet.
2. For "Base ℄ Elevation", see "SDS-11" TO SDS-35".
3. Prior to erection of the post, backfill which is equivalent to the surrounding material shall be in place.
4. Pedestal shall be 6" minimum below ground surface. Remainder to be placed against undisturbed material.
5. For drain holes and central void in mortar, see Standard Plan ES-6B (Detail N).
6. Inspection tubes must be provided in all piles except dry and dewatered holes. For alternate pile section (with inspection tubes), see "SIGN DETAILS No. 3" sheet.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT — Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN DETAILS No. 2

SDS-37

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:00
FILE => 0420000235oc037.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | |
|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 |

SHEET 37 OF 65

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 957 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

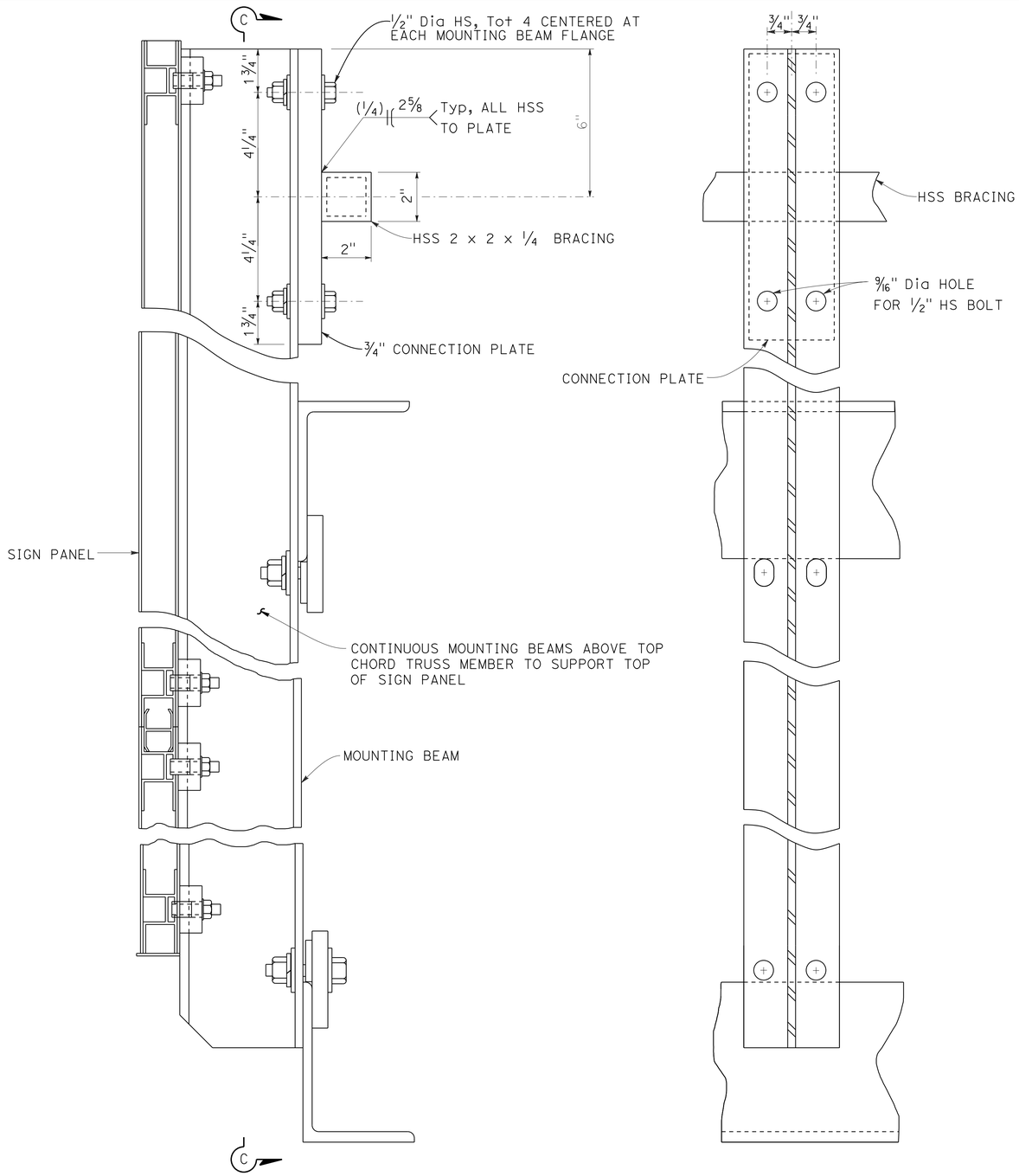
October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113




**SECTION A-A**
NO SCALE




**SECTION C-C**
NO SCALE

**NOTES:**

1. For details not shown, see Standard Plan S19
2. Place 1/4" cap at ends of HSS 2 x 2 x 1/4 bracing, weld all around.




**ALTERNATIVE PILE SECTION (WITH INSPECTION TUBES) OVERHEAD SIGN FOUNDATIONS**
NO SCALE

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN DETAILS No. 3

SDS-38

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

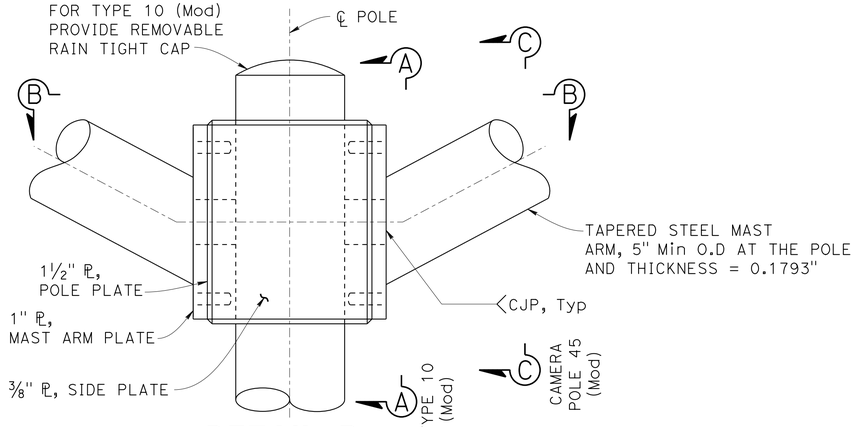
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:00
FILE => 0420000235oc038.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

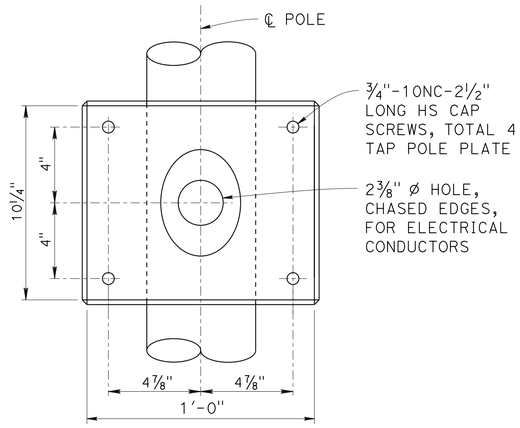
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | SHEET | OF |
|---|---|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 | 38 | 65 |




**DETAIL B**

3" = 1′-0"




**SECTION C-C**

3" = 1′-0"

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 958 | 1710 |

Sum 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DUNG NGUYEN
No. C56803
Exp. 06-30-23
CIVIL
STATE OF CALIFORNIA

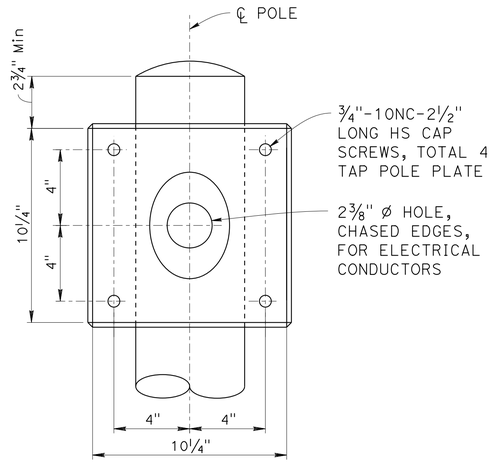
*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

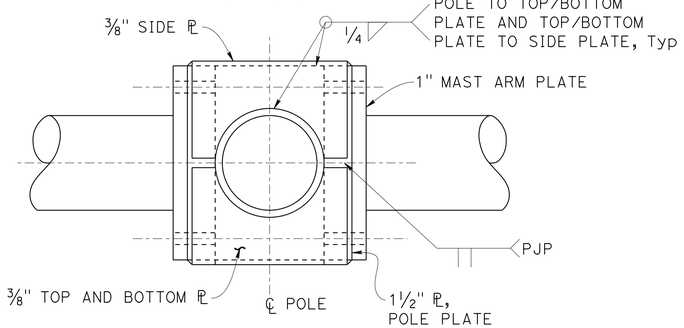
**NOTES:**

1. For additional notes and details, see Standard Plans S19, S50, and ES-6D.
2. For details not shown, see Standard Plans ES-14C.




**SECTION A-A**

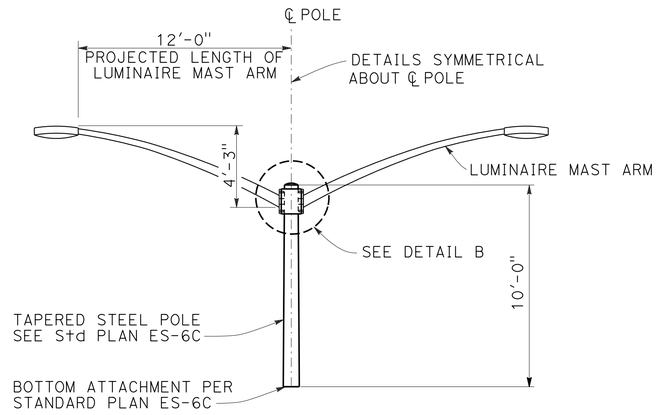
3" = 1′-0"




**SECTION B-B**

3" = 1′-0"

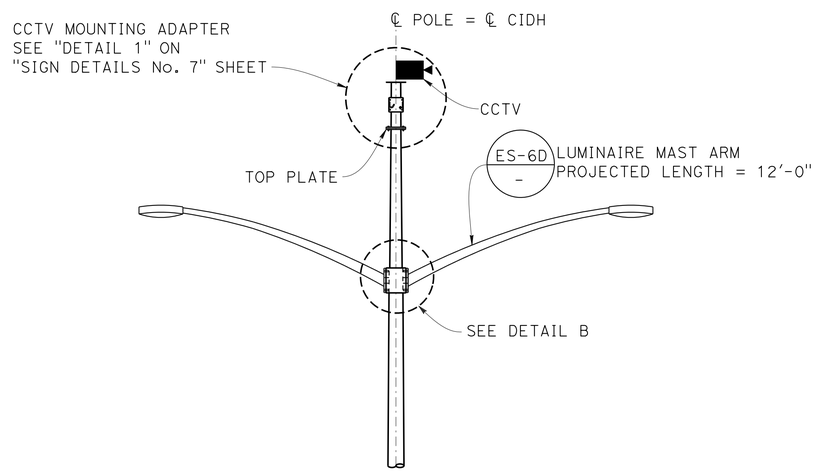
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.




**DOUBLE LUMINAIRE MAST ARM DETAIL**
**TYPE 10 (Mod)**

**POLE/LUMINAIRE ELEVATION**

NO SCALE




**DOUBLE LUMINAIRE MAST ARM DETAIL**
**CAMERA POLE 45 (Mod)**

**POLE/LUMINAIRE ELEVATION**

NO SCALE

Norbert Lee
DESIGN OVERSIGHT Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN DETAILS No. 4

SDS-39

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:00
FILE => 0420000235oc039.dgn USERNAME => p302438

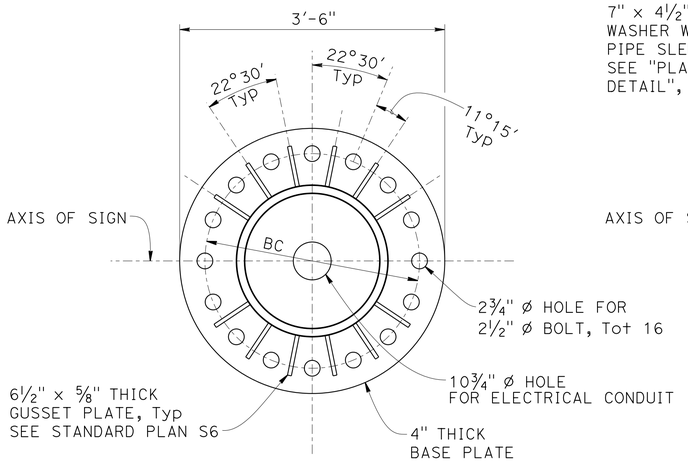
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | |
|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 |

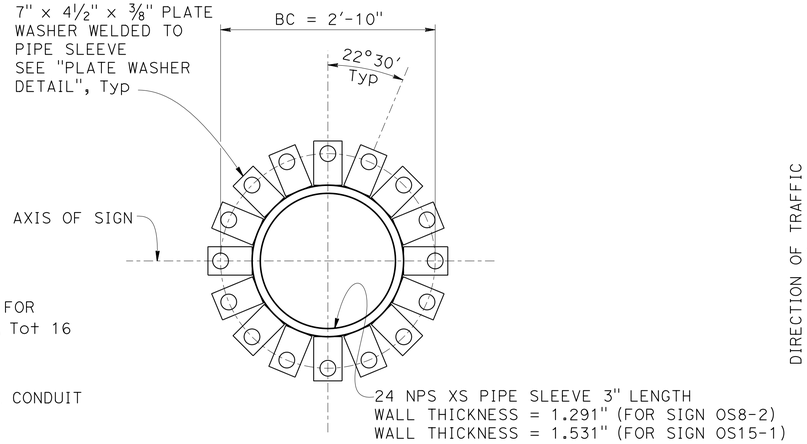
| SHEET | OF |
|---|---|
| 39 | 65 |




**16 BOLT**

## BASE PLATE DETAILS SINGLE POST TYPE

1" = 1'-0"



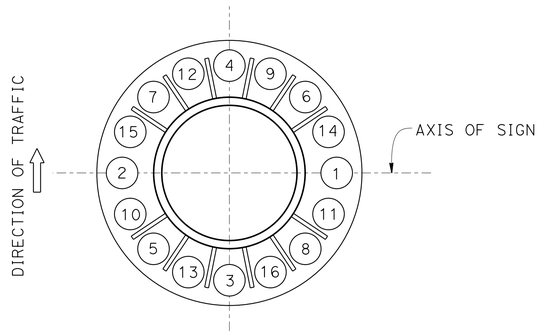

BC = BOLT CIRCLE DIAMETER

**16 BOLT**

## ANCHOR BOLT TEMPLATE

1" = 1'-0"

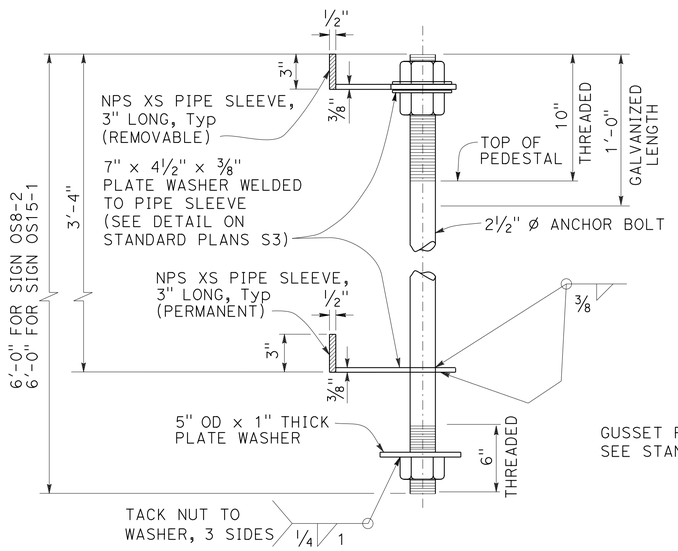
TEMPLATE TO MATCH BASE PLATE ANCHOR BOLT PATTERN




**16 BOLT**

## TIGHTENING SEQUENCE

1" = 1'-0"

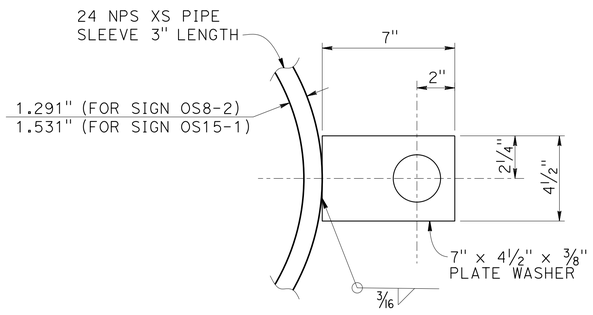



## ANCHOR BOLT TEMPLATE ASSEMBLY PLATE WASHER TYPE

NO SCALE

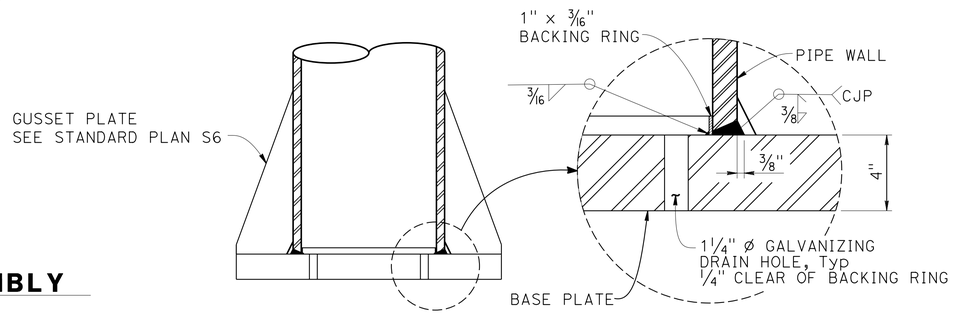
NOTE: ONE BOLT SHOWN ONLY. OTHER BOLTS SAME COFIGURATION AROUND PIPE SLEEVE.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.




## PLATE WASHER DETAIL

1" = 1'-0"

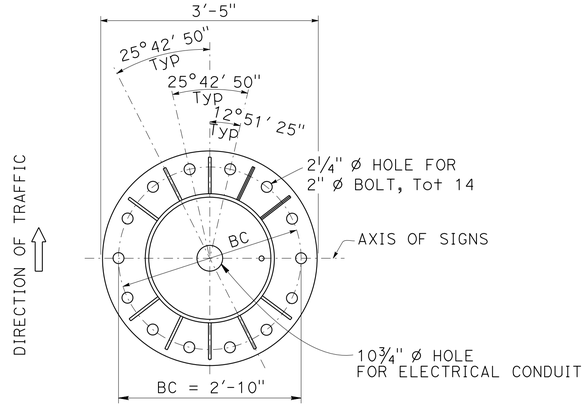



## POST TO BASE PLATE CONNECTION DETAIL

NO SCALE

**NOTES:**

1. On single post sign structures, the post shall be raked out of plumb, with the use of leveling nuts to make the bottom of sign frame level.
2. For single post type base plate and anchorage details not shown, see Standard Plan S3.
3. For base plate details, notes and dimension not shown, see Standard Plan S3, unless noted otherwise UNO.




**14 BOLT**

## BASE PLATE DETAILS SINGLE POST TYPE

NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 959 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN, No. C56803, Exp. 06-30-23, CIVIL, STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

DESIGN OVERSIGHT — Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
# SIGN DETAILS No. 5

SDS-40

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:00
FILE => 0420000235oc040.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 07-31-20 / 08-30-21 / 09-29-21

SHEET 40 OF 65

**NOTE:**
Details shown on this sheet apply to truss structures with toll equipment and supersedes those shown on the Standard Plans in terms of conduit openings, hand holes, "J" hooks, and base plate openings. For other details not shown see Standard Plans.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 960 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

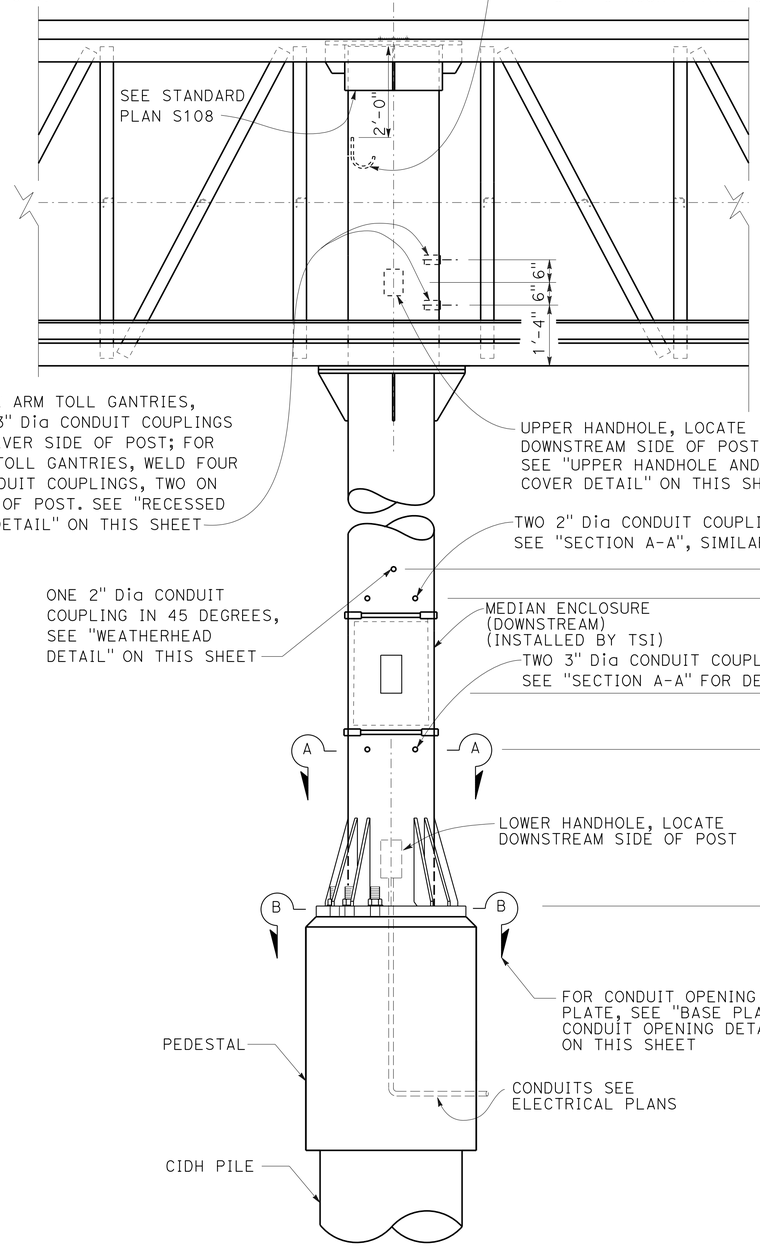
REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

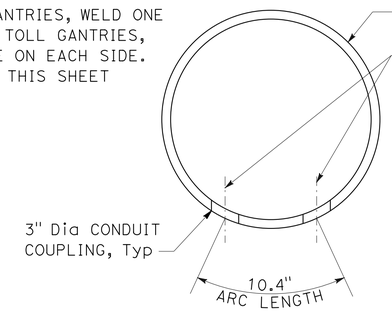
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1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

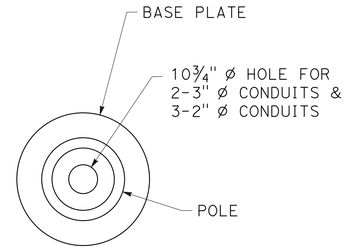
AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113




## FRAME ELEVATION
NO SCALE



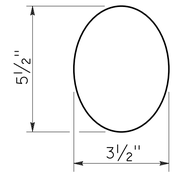

## SECTION A-A
NO SCALE



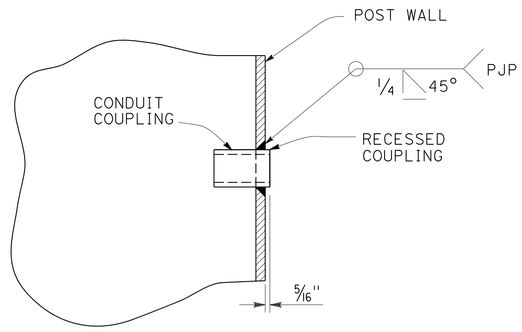

NOTE: SEE STANDARD PLAN S3 FOR DETAILS NOT SHOWN

## SECTION B-B
NO SCALE

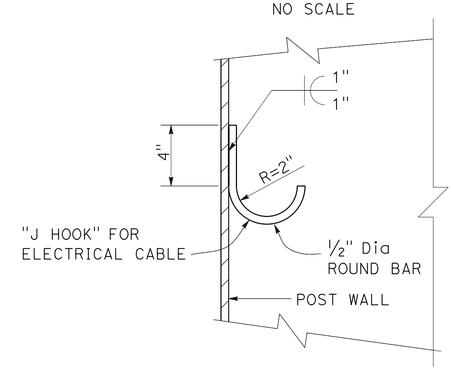
## BASE PLATE CONDUIT OPENING DETAIL



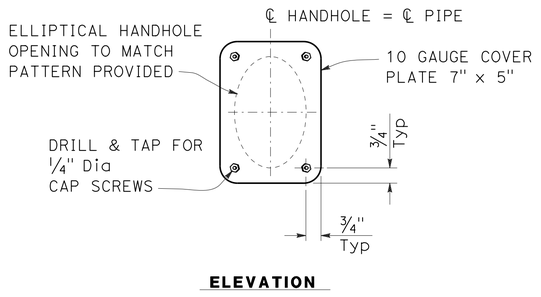

## PATTERN OF ELLIPTICAL HANDHOLE CUT OUT
NO SCALE




## RECESSED COUPLING DETAIL
NO SCALE

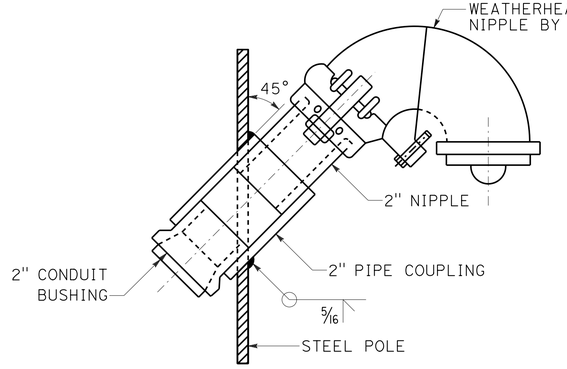



## J HOOK DETAIL
NO SCALE




**ELEVATION**

## UPPER HANDHOLE AND COVER DETAIL
NO SCALE




## WEATHERHEAD DETAIL
NO SCALE

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT — Norbert Gee
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN DETAILS No. 6

SDS-41

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:00
FILE => 0420000235oc041.dgn USERNAME => p302438
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

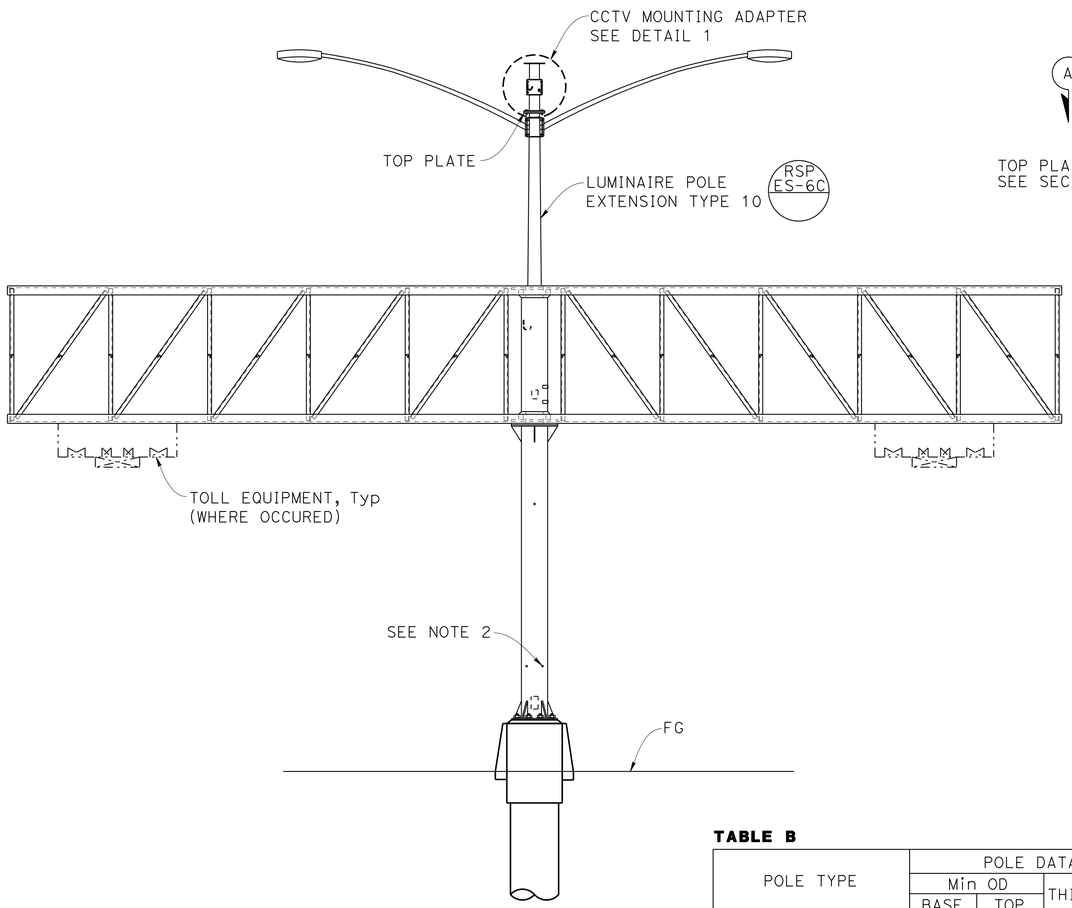
UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES

| REVISION DATES | | | SHEET | OF |
|---|---|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 | 41 | 65 |

**NOTES:**

1. FOR DETAILS OF CCTV CONNECTION NOT SHOWN, SEE REVISED STANDARD PLANS (RSP) ES-16A, DETAIL D.
2. FOR RECESSED COUPLING DETAILS NOT SHOWN, SEE RECESSED COUPLING DETAIL ON "SIGN DETAILS No. 6" SHEET.
3. THE BASE PLATE OF THE CCTV MOUNTING ADAPTER TO MATCH EXACTLY THE TOP PLATE DETAIL IN RSP ES-16A, DETAIL E (FOR 5′ TO 15′ POLE) AND RSP ES-16B, DETAIL B (FOR 25′ TO 45′ POLE).
4. FOR DOUBLE LUMINAIRE MAST ARM MOUNTING DETAILS NOT SHOWN, SEE "SIGN DETAILS No. 4" SHEET. FOR SINGLE LUMINAIRE MAST ARM MOUNTING DETAILS, SEE STANDARD PLAN ES-6E, DETAIL A.
5. ACTC: CABINET TO BE PROVIDED BY TSI, INSTALLED BY CONTRACTOR. BAIFA: CABINET TO BE PROVIDED AND INSTALLED BY TSI.
6. FOR OTHER INFORMATION AND DESIGN DATA NOT SHOWN, SEE RSP ES-16B, CAMERA POLE 45.

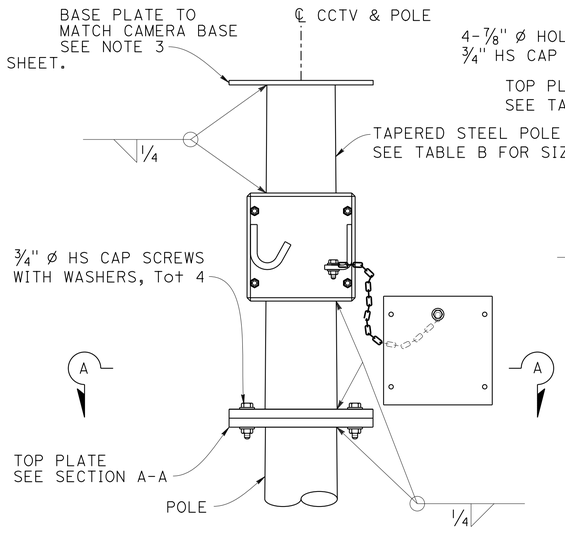



**ELEVATION**

NOTE: DOUBLE LUMINAIRE MAST ARM SHOWN, SINGLE LUMINAIRE MAST ARM SIMILAR.

## CCTV MOUNTED ON TOLL GANTRY-TRUSS WITH LUMINAIRES

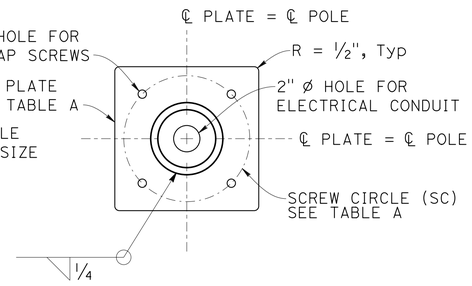
NO SCALE




**CCTV MOUNTING ADAPTER**
(SEE NOTE 1)

## DETAIL 1

NO SCALE




## SECTION A-A

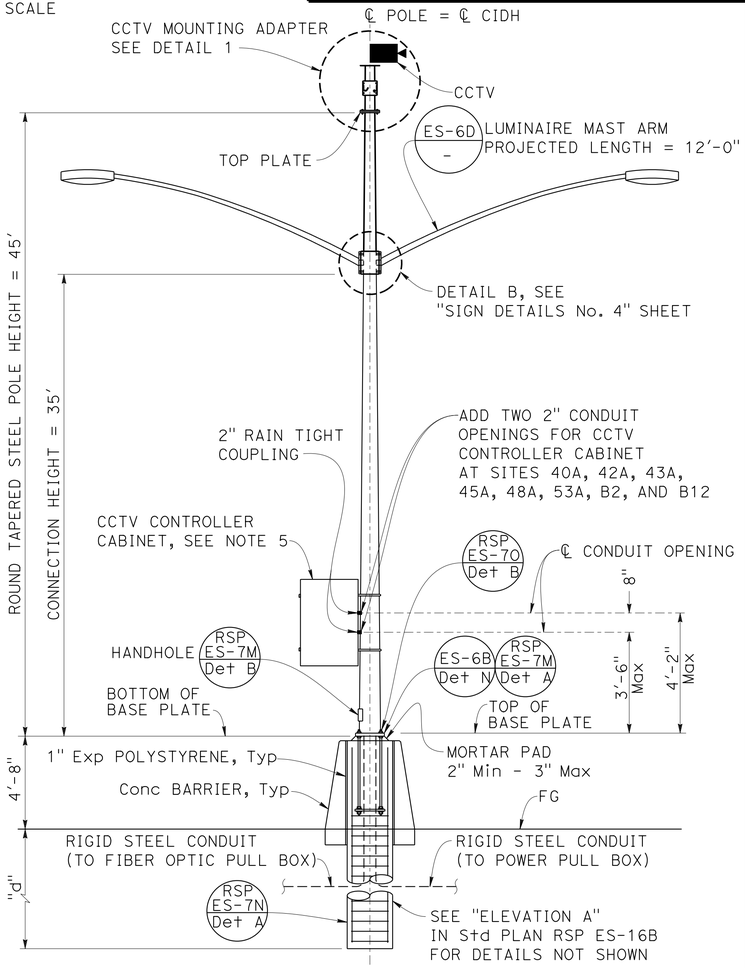
NO SCALE

**TABLE A**

| CCTV MOUNTING LOCATION | TOP PLATE SIZE | SCREW CIRCLE (SC) |
|---|---|---|
| TOLL GANTRY-TRUSS | ½" x 8" x 8" | 7" Dia |
| LIGHTING POLE | ¾" x 13½" x 13½" | 12" Dia |

**TABLE B**

| POLE TYPE | POLE DATA | | | BASE PLATE DATA | | | | CIDH | |
|---|---|---|---|---|---|---|---|---|---|
| | Min OD | | THICKNESS | "C" | THICKNESS | ANCHOR BOLT SIZE | BC = BOLT CIRCLE | Dia | "d" |
| | BASE | TOP | | | | | | | |
| CAMERA POLE 45 (Mod) | 12" | 8.875" | 0.3125" | 1′-6" | 2" | 1¾"ø x 4′-0" | 1′-4" | 3′-0" | 12′-0" |




## FOUNDATION DETAILS OF LIGHTING AND CCTV MOUNTED ON LIGHTING POLE

NO SCALE

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 961 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

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4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN DETAILS No. 7

SDS-42

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

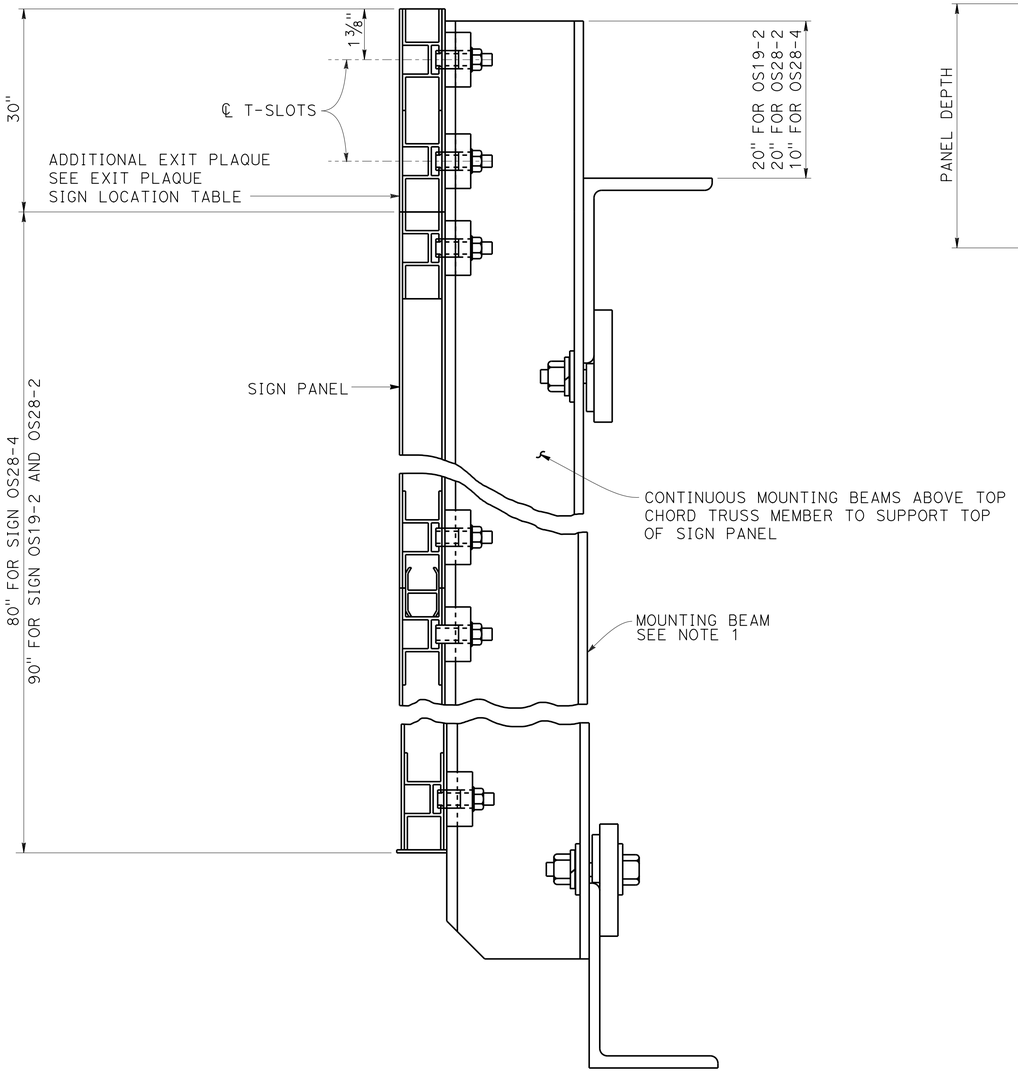
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:01
FILE => 0420000235oc042.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

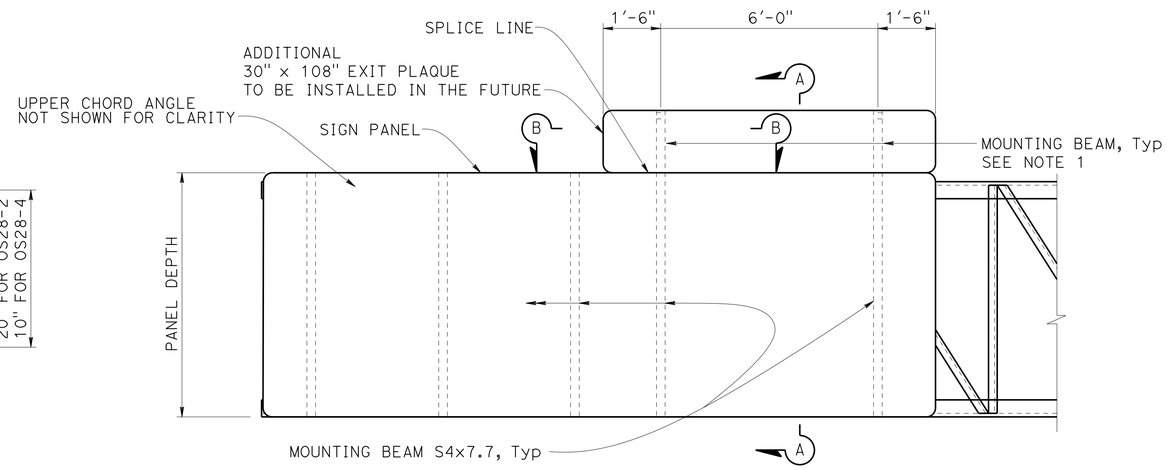
UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES

| REVISION DATES | | | SHEET | OF |
|---|---|---|---|---|
| 07-31-20 | 08-30-21 | 09-29-21 | 42 | 65 |




## SECTION A-A
NO SCALE



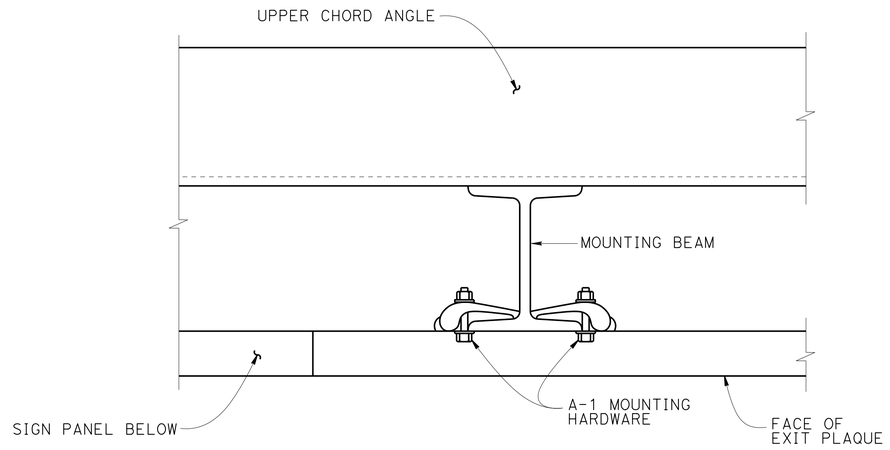

## ELEVATION
NO SCALE

## EXIT PLAQUE LOCATION TABLE

| SIGN No. | SIGN LOCATION |
|---|---|
| OS19-2 | 419+43.27 |
| OS28-2 | 546+00 |
| OS28-4 | 537+60 |

## NOTES:

1. For dimensions and details not shown, see Standard Plan S19.
2. For exit plaque location, see EXIT PLAQUE LOCATION TABLE.
3. The location of the horizontal splice line is dependent on the Contractor for sign greater than 60" in depth.
4. Mounting bolts and clamps are required on each side of the horizontal splice lines at each support beam.
5. Torque stainless steel sign panel mounting bolts to 100 inch-pounds.




## SECTION B-B
NO SCALE

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 962 | 1710 |

REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

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AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SIGN DETAILS No. 8

SDS-43

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)

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FILE => 0420000235oc043.dgn USERNAME => p302438

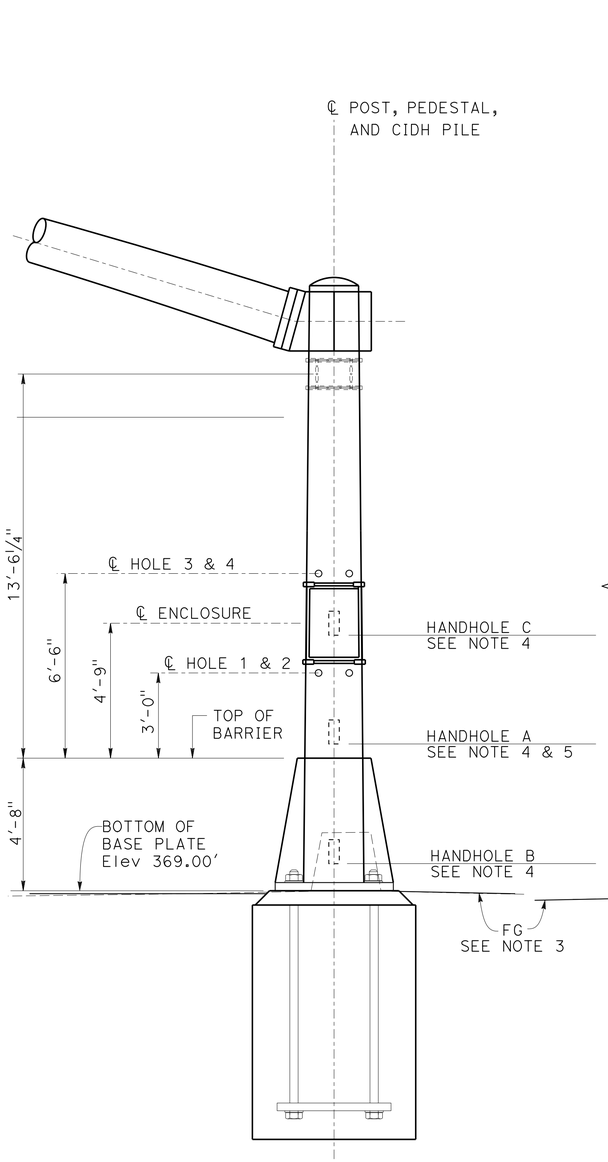
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

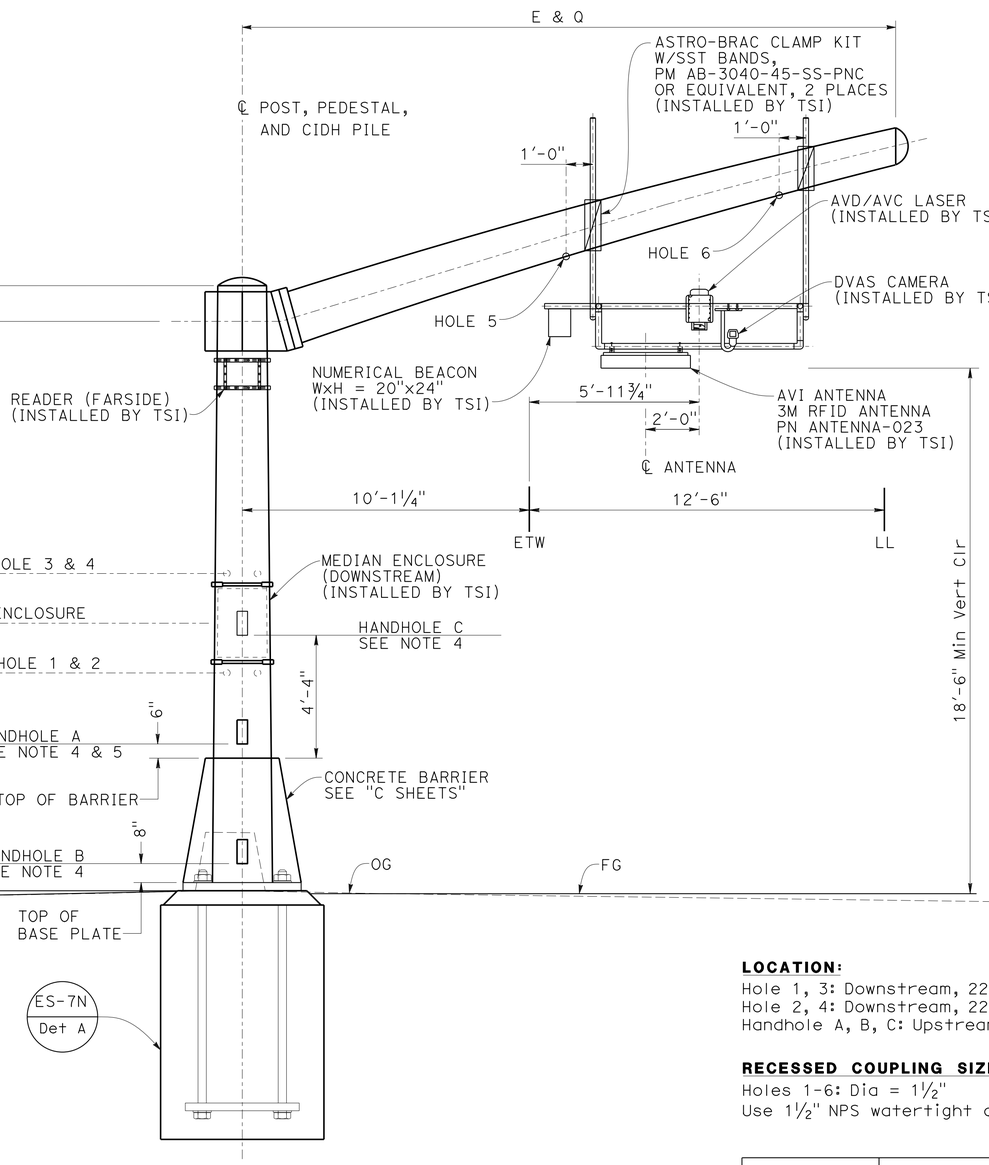
REVISION DATES: 07-31-20 / 08-30-21 / 09-29-21

SHEET 43 OF 65




## REAR ELEVATION

NO SCALE




POLE 61-5-100 Mod

"I-680" 637+50 FSBT

(TOLL SITE No. B10)

## ELEVATION

NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 963 | 1710 |

Syed Kazmi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DUNG NGUYEN No. C56803 Exp. 06-30-23 CIVIL — STATE OF CALIFORNIA

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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

**NOTES:**

1. For details and dimensions not shown, see Revised Standard Plans RSP ES-7M, Standard Plan ES-7H, and ES-7N.
2. For General Notes and Location Plans, see "GENERAL NOTES" and "LOCATION PLAN" sheets.
3. CIDH pile foundation located in the median must be constructed to be under FG on lower side of highway. Base plate must be above FG as shown.
4. For handhole and coupling details, see Standard Plan RSP S2.
5. Install J hook downstream 0 degree on centerline opposite of handhole A only, see "SIGN DETAILS No. 6" sheet.

**LOCATION:**

Hole 1, 3: Downstream, 22 degree left on centerline (farside)
Hole 2, 4: Downstream, 22 degree right of centerline (traffic side)(farside)
Handhole A, B, C: Upstream, 0 degree on centerline

**RECESSED COUPLING SIZES:**

Holes 1-6: Dia = 1½"
Use 1½" NPS watertight coupling for holes 1-4

| POLE TYPE | POLE DATA | | | | SIGNAL MAST ARM DATA | | LUMINAIRE MAST ARM |
|---|---|---|---|---|---|---|---|
| | H | A HEIGHT | Min OD BASE | Min OD TOP | E PROJECTED LENGTH | Q SECTION THICKNESS | |
| 61-5-100 Mod | 20.3′ | 21.3′ | 25" | 22⅝" | 23′-0" | 0.2391" | NONE |

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Nguyen | K. Lee |
| DETAILS | C. Tu | K. Lee |
| QUANTITIES | R. Kargarmockhar | K. Lee |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE NO. N/A
POST MILE N/A

# SPECIAL DESIGN SIGNS
## SITE B10 GANTRY LAYOUT

SDS-44

DESIGN DETAIL SHEET (ENGLISH) (REVISION 4/19/2018)
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:01
FILE => 0420000235oc044.dgn USERNAME => p302438
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4
DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES: 07-31-20 / 08-30-21 09-29-21
SHEET 44 OF 65

## BENCH MARK

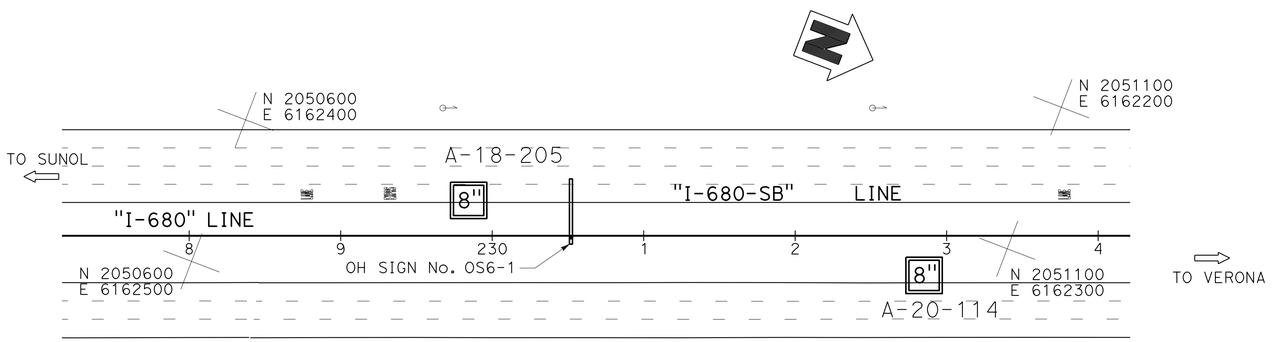
All elevations based on vertical datum NAVD88.
All stations and offsets based on horizontal datum NAD83.
Survey Control ID 119 El 257.23, N2039888.419 E6164368.97.

## NOTES

1. This LOTB Sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).
2. Standard Penetration test sampler I.D. = 1.38 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)
3. REF is defined as more than 50 blows in the first 6 inches.
4. Cobbles and boulders could be present based on information from published geologic maps.

BOREHOLE LOCATION TABLE

| Hole ID | Alignment Name | Station and Offset |
|---|---|---|
| A-18-205 | "I-680" LINE | 229+84 24' Lt |
| A-20-114 | "I-680" LINE | 232+85 26' Rt |




**PLAN**
1"=50'

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 964 | 1710 |

9-29-21
REGISTERED GEOTECHNICAL ENGINEER DATE

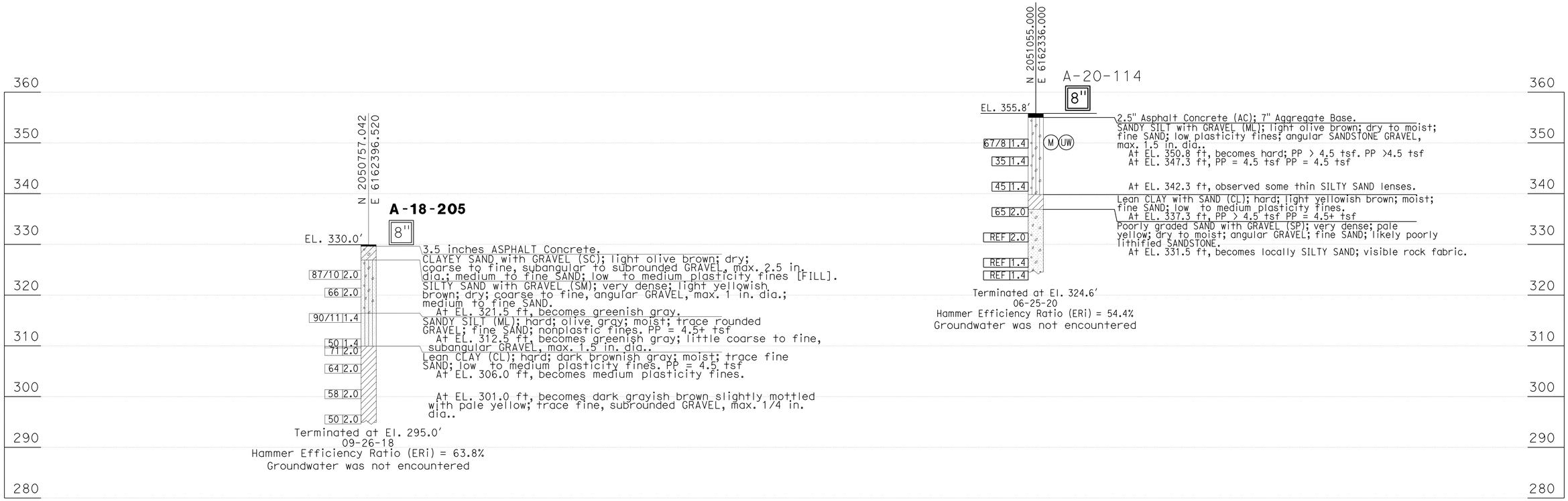
REGISTERED PROFESSIONAL ENGINEER
L. Allen Moore
No. GE 2607
Exp. 6-30-23
GEOTECHNICAL
STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

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SAN JOSE, CA 95113




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DESIGN OVERSIGHT Norbert Gee | DRAWN | BY E. Garnica | Tim Vande Voorde FIELD INVESTIGATOR | PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | L. Allen Moore PROJECT ENGINEER | BRIDGE No. N/A | OVERHEAD SIGN OS6-1 |
| 2/15/22 SIGN OFF DATE | CHECKED | BY A. M. Moore | DATE | | | POST MILE R13.79 | LOG OF TEST BORINGS SDS-45 |

GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:01
FILE => 0420000235oc045.dgn USERNAME => p302438
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | | SHEET | OF |
|---|---|---|---|---|---|
| 09-29-21 | | | | 45 | 65 |

## BENCH MARK

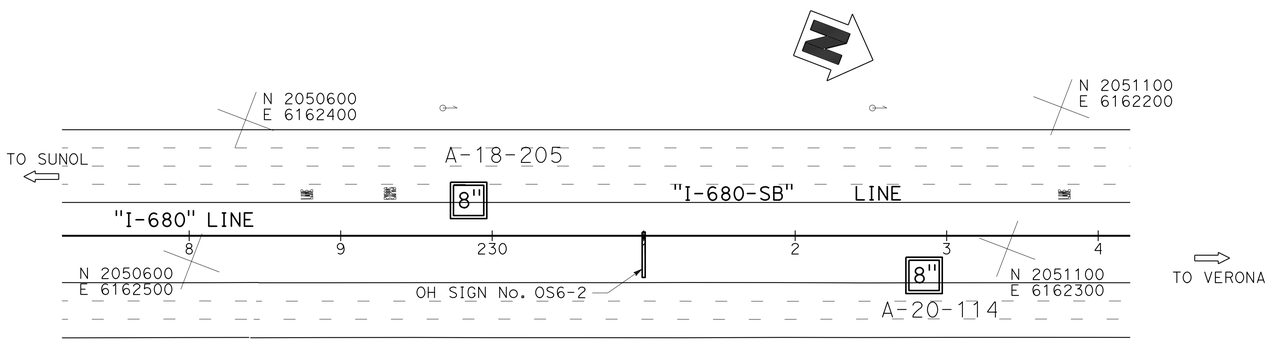
All elevations based on vertical datum NAVD88.
All stations and offsets based on horizontal datum NAD83.
Survey Control ID 119 El 257.23, N2039888.419 E6164368.97.

## NOTES

1. This LOTB Sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).
2. Standard Penetration test sampler I.D. = 1.38 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)
3. REF is defined as more than 50 blows in the first 6 inches.
4. Cobbles and boulders could be present based on information from published geologic maps.

BOREHOLE LOCATION TABLE

| Hole ID | Alignment Name | Station and Offset |
|---|---|---|
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| A-20-114 | "I-680" LINE | 232+85 26' Rt |




**PLAN**
1"=50'




| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 965 | 1710 |

9-29-21
REGISTERED GEOTECHNICAL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER — L. Allen Moore — No. GE 2607 — Exp. 6-30-23 — GEOTECHNICAL — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

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ALAMEDA CTC
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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

DRAWN — BY E. Garnica
CHECKED — BY A. M. Moore

Tim Vande Voorde
FIELD INVESTIGATOR
DATE

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

L. Allen Moore
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE R13.79

# OVERHEAD SIGN OS6-2
# LOG OF TEST BORINGS

SDS-46

GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:01
FILE => 0420000235oc046.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | | SHEET | OF |
|---|---|---|---|---|---|
| 07-31-20 | 03-30-21 | 08-30-21 | 09-29-21 | 46 | 65 |

## BENCH MARK

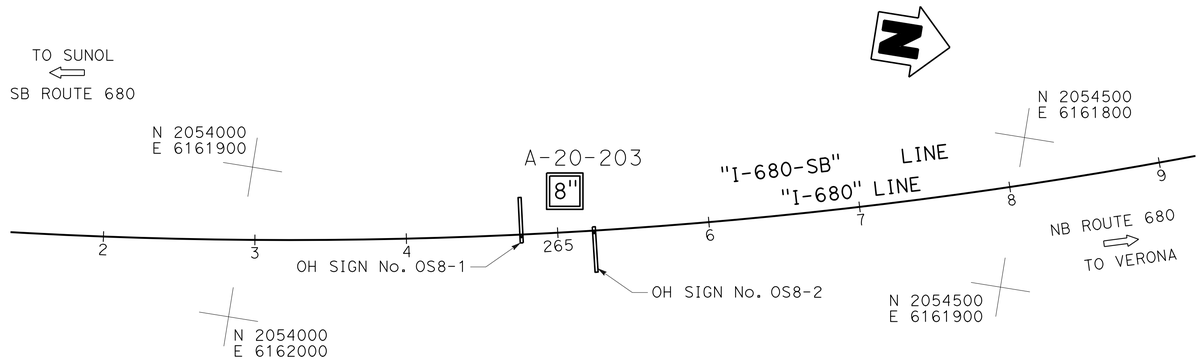
All elevations based on vertical datum NAVD88.
All stations and offsets based on horizontal datum NAD83.
Survey Control ID 119 El 257.23, N2039888.419 E6164368.97.

## NOTES

1. This LOTB Sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).
2. Standard Penetration test sampler I.D. = 1.38 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)
3. REF is defined as more than 50 blows in the first 6 inches.
4. Cobbles and boulders could be present based on information from published geologic maps.

BOREHOLE LOCATION TABLE

| Hole ID | Alignment Name | Station and Offset |
|---|---|---|
| A-20-203 | "I-680" LINE | 265+06 27' Lt |




**PLAN**
1"=50'

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 966 | 1710 |

9-29-21
REGISTERED GEOTECHNICAL ENGINEER DATE

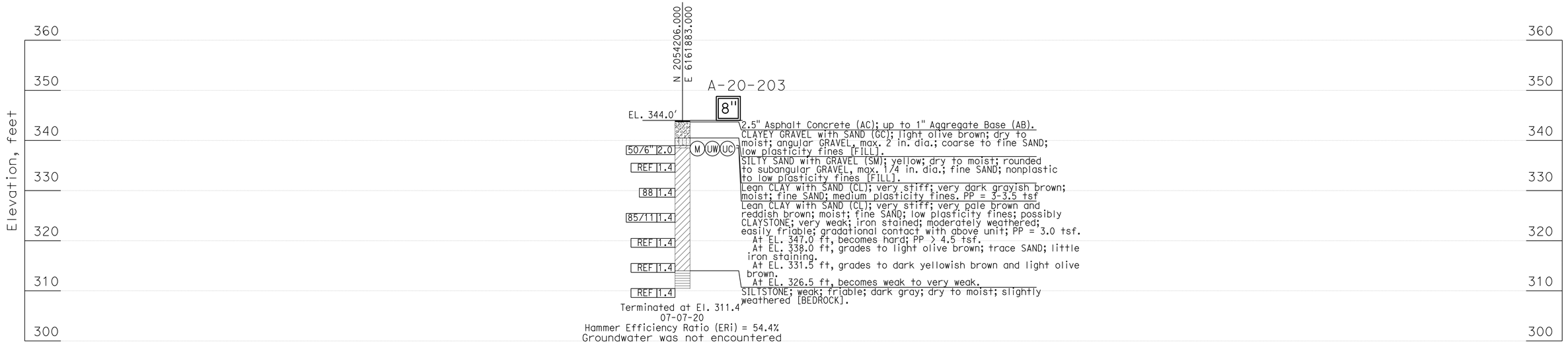
October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — L. Allen Moore — No. GE 2607 — Exp. 6-30-23 — GEOTECHNICAL — STATE OF CALIFORNIA

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Norbert Gee<br>DESIGN OVERSIGHT<br>2/15/22<br>SIGN OFF DATE | DRAWN | BY<br>E. Garnica | Tim Vande Voorde<br>FIELD INVESTIGATOR<br>DATE | PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | L. Allen Moore<br>PROJECT ENGINEER | BRIDGE No.<br>N/A<br>POST MILE<br>R14.43, R14.44 | OVERHEAD SIGN OS8-1 AND OS8-2<br>LOG OF TEST BORINGS | SDS-47 |
| | CHECKED | BY<br>A. M. Moore | | | | | | |

GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REVISION 4/19/2018)
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:01
FILE => 0420000235oc047.dgn USERNAME => p302438
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4
DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 07-31-20 | 03-30-21 | 08-30-21 | 09-29-21
SHEET 47 OF 65

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 967 | 1710 |

9-29-21
REGISTERED GEOTECHNICAL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — L. Allen Moore — No. GE 2607 — Exp. 6-30-23 — GEOTECHNICAL — STATE OF CALIFORNIA

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

## BENCH MARK

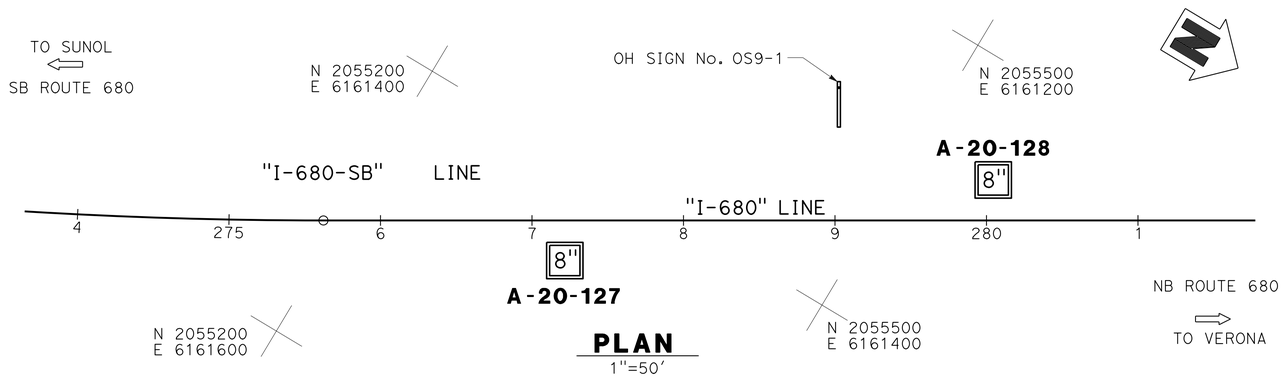
All elevations based on vertical datum NAVD88.
All stations and offsets based on horizontal datum NAD83.
Survey Control ID 119 EI 257.23, N2039888.419 E6164368.97.

## NOTES

1. This LOTB Sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).
2. Standard Penetration test sampler I.D. = 1.38 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)
3. REF is defined as more than 50 blows in the first 6 inches.
4. Cobbles and boulders could be present based on information from published geologic maps.

BOREHOLE LOCATION TABLE

| Hole ID | Alignment Name | Station and Offset |
|---|---|---|
| A-20-127 | "I-680" LINE | 277+22 26' Rt |
| A-20-128 | "I-680" LINE | 280+05 27' Lt |




PLAN
1"=50'




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Norbert Gee<br>DESIGN OVERSIGHT<br>2/15/22<br>SIGN OFF DATE | DRAWN | BY E. Garnica | Tim Vande Voorde/Joshua Moore<br>FIELD INVESTIGATOR<br>DATE | PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | L. Allen Moore<br>PROJECT ENGINEER | BRIDGE No. N/A<br>POST MILE R14.70 | OVERHEAD SIGN OS9-1<br>LOG OF TEST BORINGS | SDS-48 |
| | CHECKED | BY A. M. Moore | | | | | | |

GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REVISION 4/19/2018)
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:01
FILE => 0420000235oc048.dgn USERNAME => p302438
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4
DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES: 07-31-20 | 03-30-21 | 08-30-21 | 09-29-21
SHEET 48 OF 65

## BENCH MARK

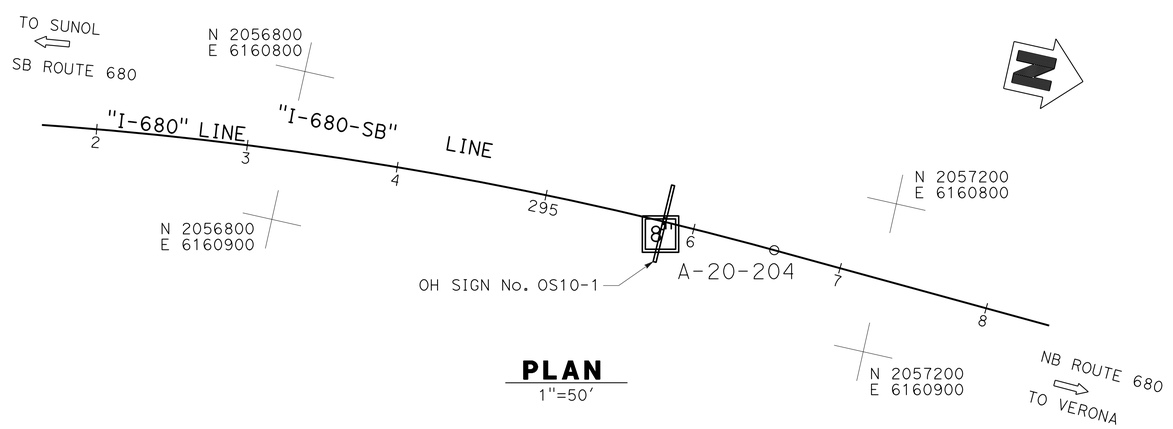
All elevations based on vertical datum NAVD88.
All stations and offsets based on horizontal datum NAD83.
Survey Control ID 119 El 257.23, N2039888.419 E6164368.97.

## NOTES

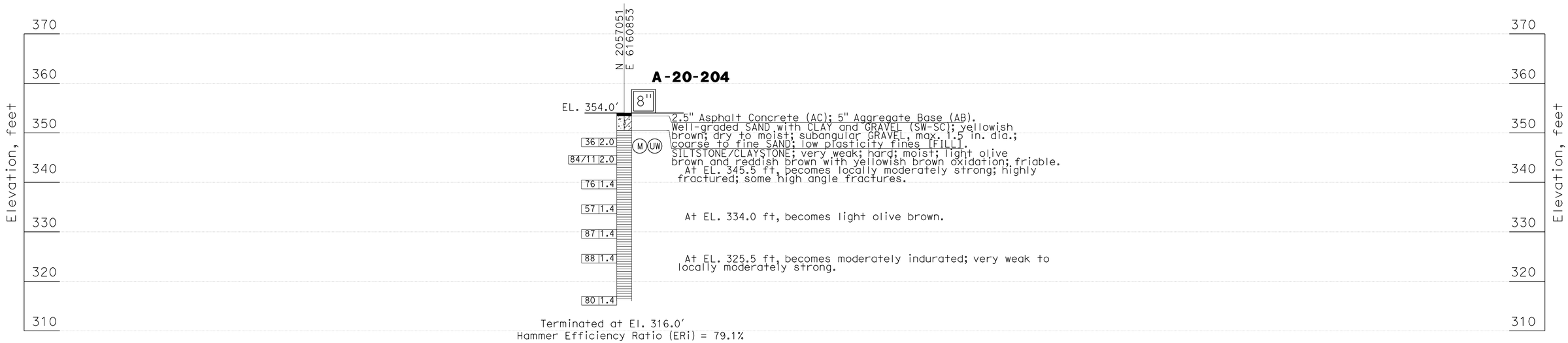
1. This LOTB Sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).
2. Standard Penetration test sampler I.D. = 1.38 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)
3. Cobbles and boulders could be present based on information from published geologic maps.

BOREHOLE LOCATION TABLE

| Hole ID | Alignment Name | Station and Offset |
|---|---|---|
| A-20-204 | "I-680" LINE | 295+80 8' Lt |




**PLAN**
1"=50'




| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 968 | 1710 |

9-29-21
REGISTERED GEOTECHNICAL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — L. Allen Moore — No. GE 2607 — Exp. 6-30-23 — GEOTECHNICAL — STATE OF CALIFORNIA

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

DRAWN — BY E. Garnica
CHECKED — BY A. M. Moore

Tim Vande Voorde/Joshua Moore
FIELD INVESTIGATOR
DATE

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

L. Allen Moore
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE R15.02

# OVERHEAD SIGN OS10-1
# LOG OF TEST BORINGS

SDS-49

GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:01
FILE => 0420000235oc049.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | | SHEET | OF |
|---|---|---|---|---|---|
| 07-31-20 | 03-30-21 | 08-30-21 | 09-29-21 | 49 | 65 |

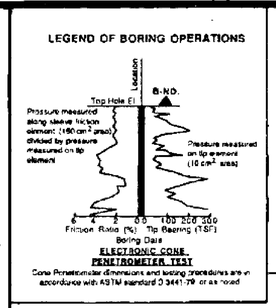
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala | 680 | R15.0/R20.1 | 193 | 258 |

REGISTERED · CERTIFIED ENGINEERING GEOLOGIST

November 30, 1987
PLANS APPROVAL DATE

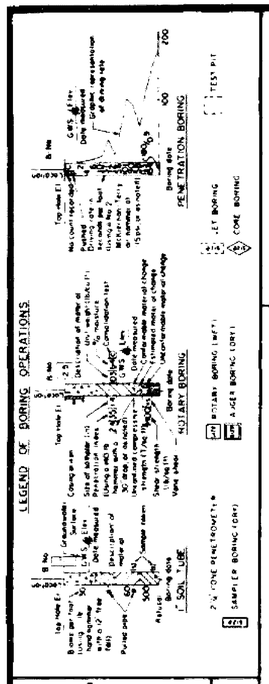
REGISTERED GEOLOGIST — S.F. GOLDSCHMIDT — No. 586 — Exp. 6-30-88 — STATE OF CALIFORNIA

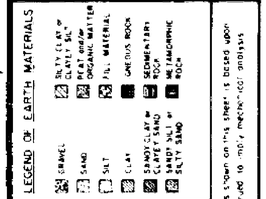
## LEGEND OF BORING OPERATIONS

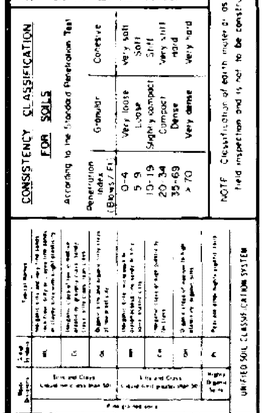


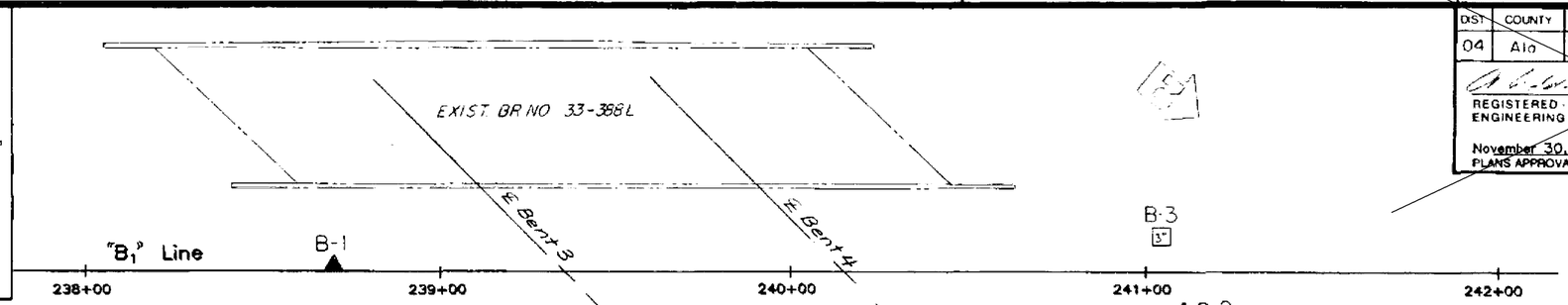

**ELECTRONIC CONE PENETROMETER TEST**

Cone Penetrometer dimensions and testing procedures are in accordance with ASTM standard D 3441-79 or as noted



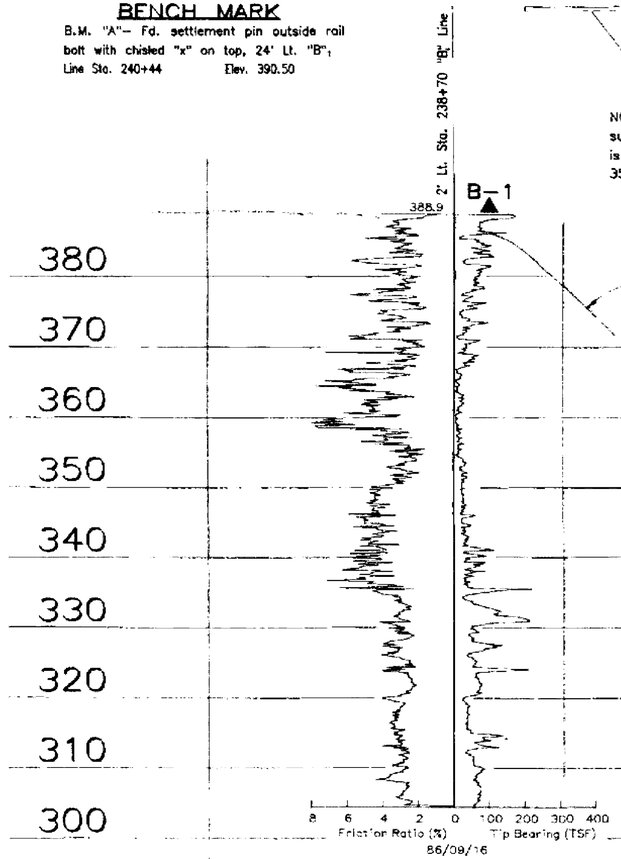



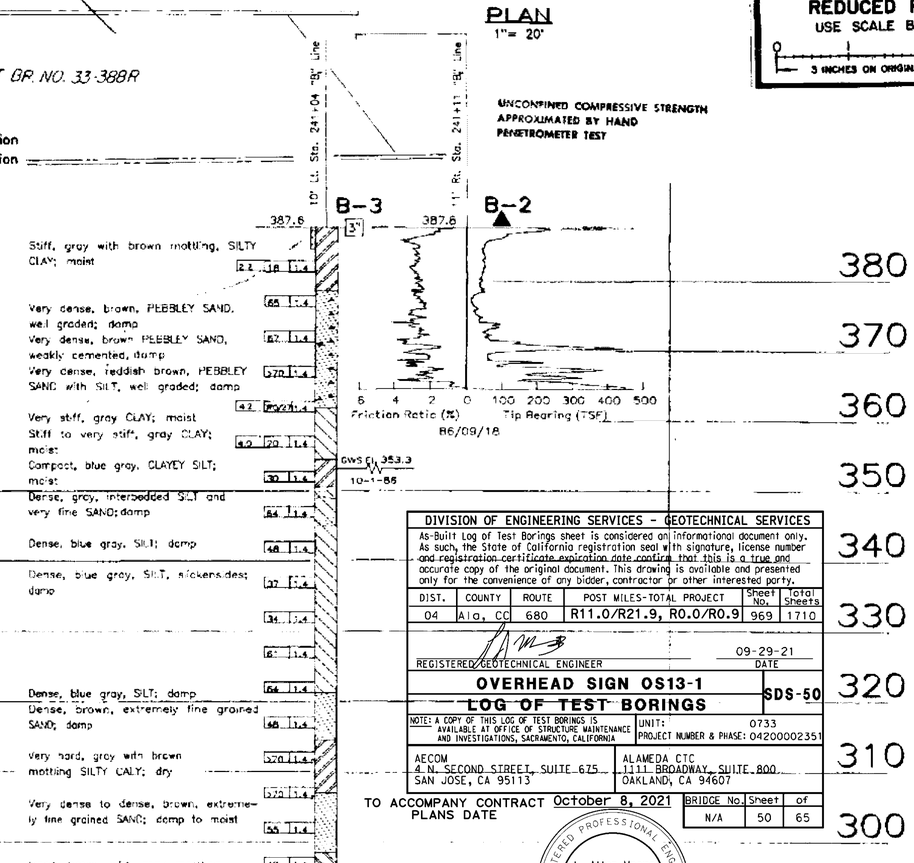




## BENCH MARK

B.M. "A"– Fd. settlement pin outside rail bolt with chisled "x" on top, 24' Lt. "B1" Line Sta. 240+44 Elev. 390.50

NOTE: Alameda County records of August 1986 suggest that the groundwater table at this location is at elevation 290. Water encountered at elevation 353 is believed to be perched.




## PLAN

1"= 20'

**REDUCED PLAN**
USE SCALE BELOW
0 1 2 3
3 INCHES ON ORIGINAL PLAN

UNCONFINED COMPRESSIVE STRENGTH APPROXIMATED BY HAND PENETROMETER TEST

## PROFILE

Hor. : 1"=20'
Ver. : 1"=10'

**DIVISION OF ENGINEERING SERVICES - GEOTECHNICAL SERVICES**

As-Built Log of Test Borings sheet is considered an informational document only. As such, the State of California registration seal with signature, license number and registration certificate expiration date confirm that this is a true and accurate copy of the original document. This drawing is available and presented only for the convenience of any bidder, contractor or other interested party.

| DIST. | COUNTY | ROUTE | POST MILES-TOTAL PROJECT | Sheet No. | Total Sheets |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 969 | 1710 |

REGISTERED GEOTECHNICAL ENGINEER — 09-29-21 DATE

**OVERHEAD SIGN OS13-1** — **SDS-50**

**LOG OF TEST BORINGS**

NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA

UNIT: 0733
PROJECT NUMBER & PHASE: 0420000235

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

TO ACCOMPANY CONTRACT October 8, 2021
PLANS DATE

| BRIDGE No. | Sheet | of |
|---|---|---|
| N/A | 50 | 65 |

REGISTERED PROFESSIONAL ENGINEER — L. Allen Moore — No. GE 2607 — Exp. 6-30-23 — GEOTECHNICAL — STATE OF CALIFORNIA

**GEOTECHNICAL BRANCH - TRANSPORTATION LABORATORY**

DRAWN BY: ED FONG 3/87
CHECKED BY:

Approved Recommended By:
PROJECT ENGINEER — C.E. NO.
R.C. Wilkerson — 500
ENGINEERING GEOLOGIST — C.E.G. NO.

CHARGE UNIT | EXPEND AUTHOR | SPEC DESIGN

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

STRUCTURES - DESIGN 8
PROJECT ENGINEER — REGISTERED CIVIL ENGINEER

BRIDGE NO. 33-388
POST MILE 10.6

CU 04126
EA 112031

33 PLEASANTON O.H. (WIDEN)

LOG OF TEST BORINGS (OF 2)

REVISION DATES (WHEN BLUEPRINTED)

SHEET 12 OF 13

USERNAME => $USER DATE PLOTTED => $DATE TIME PLOTTED => $TIME

## BENCH MARK

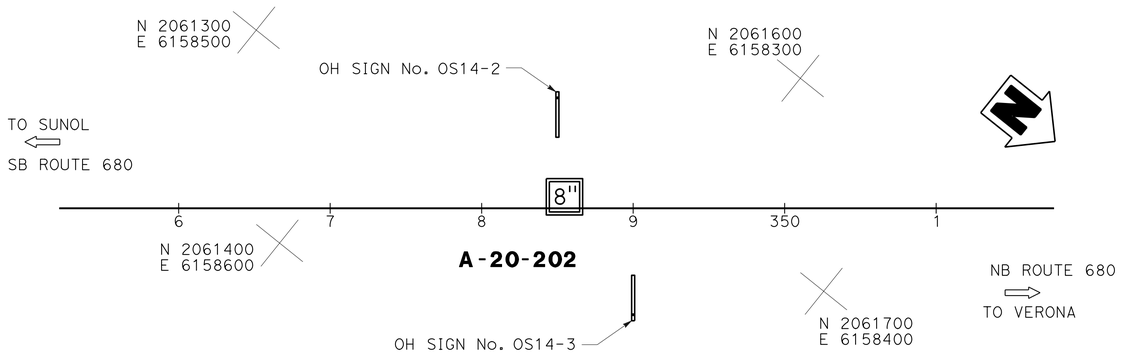
All elevations based on vertical datum NAVD88.
All stations and offsets based on horizontal datum NAD83.
Survey Control ID 119 El 257.23, N2039888.419 E6164368.97.

## NOTES

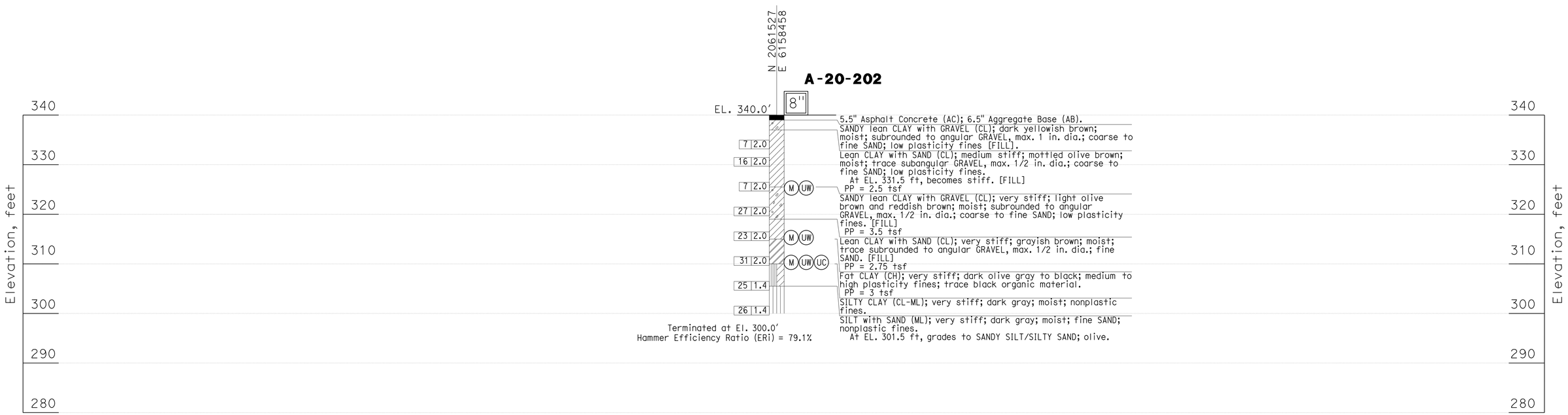
1. This LOTB Sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).
2. Standard Penetration test sampler I.D. = 1.38 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)

BOREHOLE LOCATION TABLE

| Hole ID | Alignment Name | Station and Offset |
|---|---|---|
| A-20-202 | "I-680" LINE | 348+50 8' Lt |




**PLAN**
1"=50'




| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 970 | 1710 |

09-29-21
REGISTERED GEOTECHNICAL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — L. Allen Moore — No. GE 2607 — Exp. 6-30-23 — GEOTECHNICAL — STATE OF CALIFORNIA

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

DRAWN — BY E. Garnica
CHECKED — BY A. M. Moore

Tim Vande Voorde
FIELD INVESTIGATOR
DATE

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

L. Allen Moore
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE R16.01, R16.02

# OVERHEAD SIGN OS14-2 AND OS14-3
# LOG OF TEST BORINGS

SDS-51

GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:01
FILE => 0420000235oc051.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

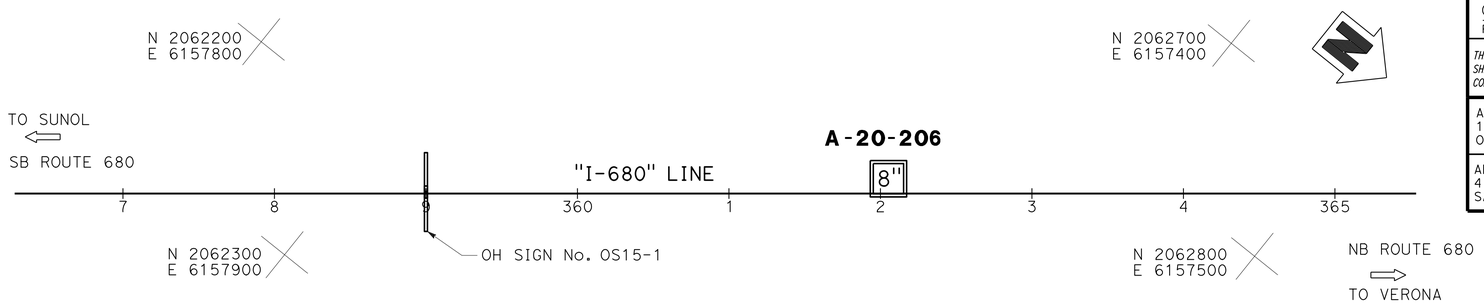
| REVISION DATES | | | | SHEET | OF |
|---|---|---|---|---|---|
| 07-31-20 | 03-30-21 | 08-30-21 | 09-29-21 | 51 | 65 |

## BENCH MARK

All elevations based on vertical datum NAVD88.
All stations and offsets based on horizontal datum NAD83.
Survey Control ID 119 El 257.23, N2039888.419 E6164368.97.

## NOTES

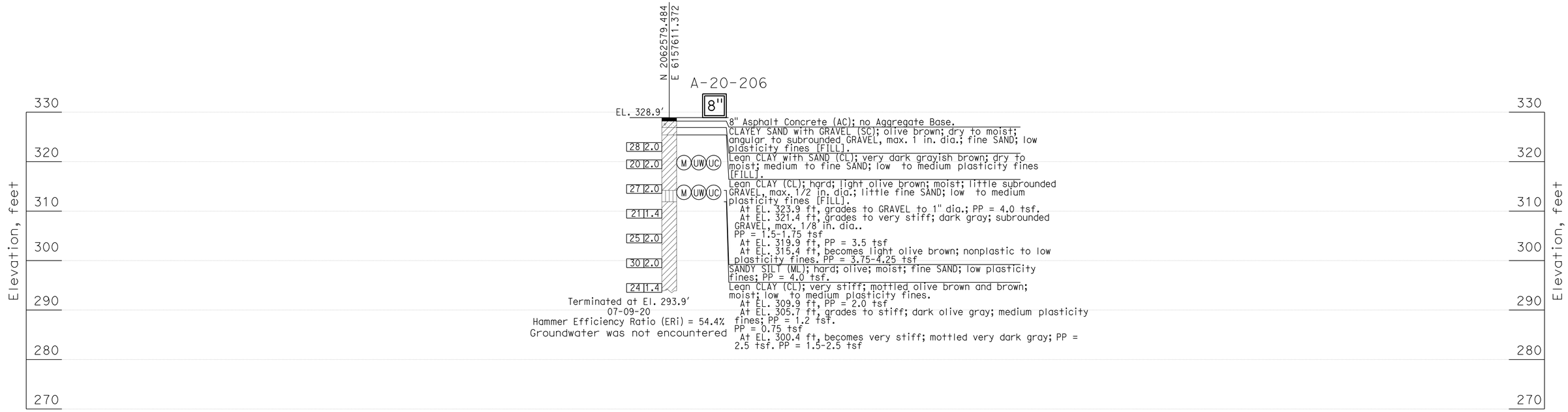
1. This LOTB Sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).
2. Standard Penetration test sampler I.D. = 1.38 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)




**PLAN**
1"=50'

BOREHOLE LOCATION TABLE

| Hole ID | Alignment Name | Station and Offset |
|---|---|---|
| A-20-206 | "I-680" LINE | 362+05 10' Lt |




| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 971 | 1710 |

09-29-21
REGISTERED GEOTECHNICAL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — L. Allen Moore — No. GE 2607 — Exp. 6-30-23 — GEOTECHNICAL — STATE OF CALIFORNIA

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

DRAWN — BY E. Garnica
CHECKED — BY A. M. Moore

Tim Vande Voorde
FIELD INVESTIGATOR
DATE

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

L. Allen Moore
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE R16.21

# OVERHEAD SIGN OS15-1
# LOG OF TEST BORINGS

SDS-52

GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:02
FILE => 0420000235oc052.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | | SHEET | OF |
|---|---|---|---|---|---|
| 07-31-20 | 03-30-21 | 08-30-21 | 09-29-21 | 52 | 65 |

## BENCH MARK

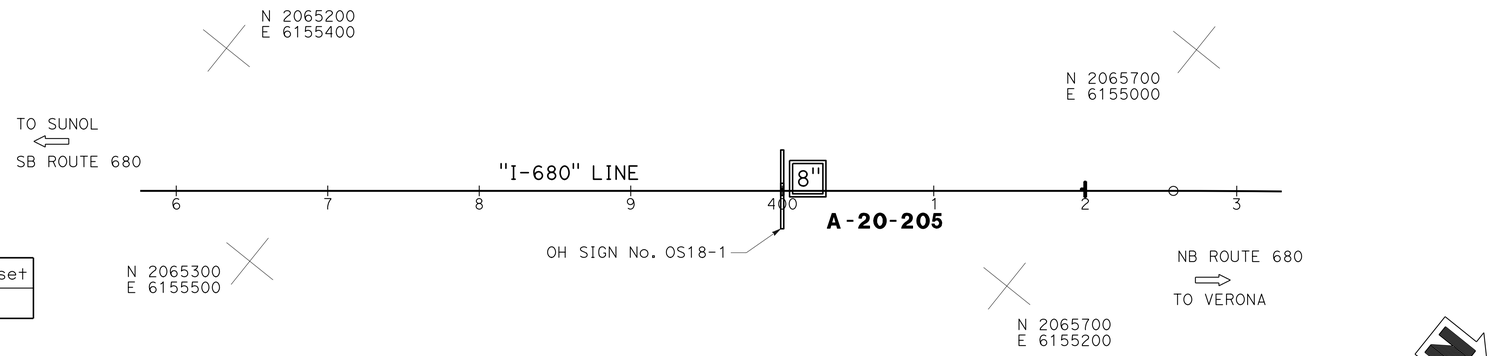
All elevations based on vertical datum NAVD88.
All stations and offsets based on horizontal datum NAD83.
Survey Control ID 119 El 257.23, N2039888.419 E6164368.97.

## NOTES

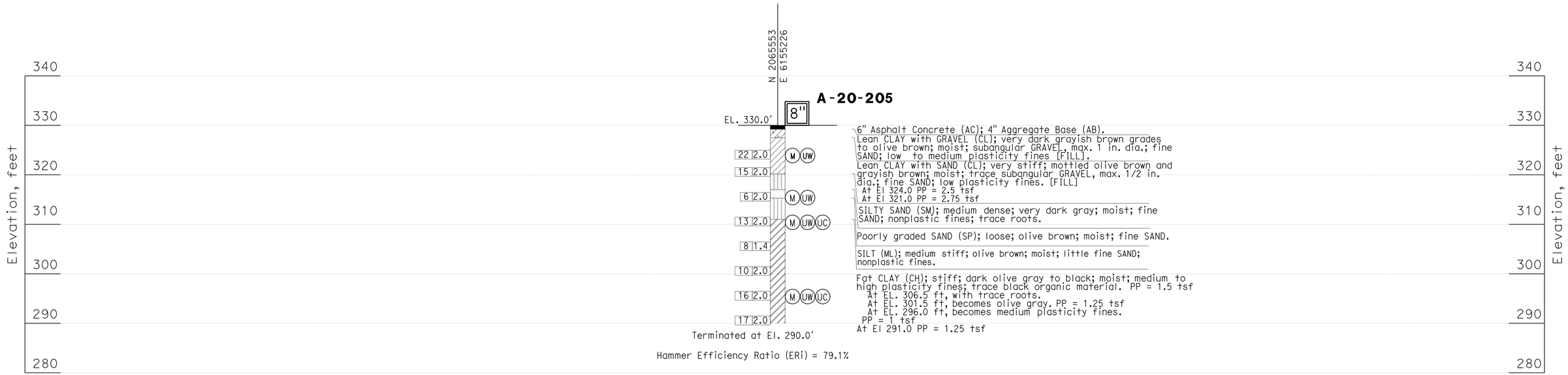
1. This LOTB Sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).
2. Standard Penetration test sampler I.D. = 1.38 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)

BOREHOLE LOCATION TABLE

| Hole ID | Alignment Name | Station and Offset |
|---|---|---|
| A-20-205 | "I-680" LINE | 400+00 8" Lt |




**PLAN**
1"=50'




| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 972 | 1710 |

09-29-21
REGISTERED GEOTECHNICAL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — L. Allen Moore — No. GE 2607 — Exp. 6-30-23 — GEOTECHNICAL — STATE OF CALIFORNIA

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*


ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113


Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

DRAWN — BY E. Garnica
CHECKED — BY A. M. Moore

Tim Vande Voorde
FIELD INVESTIGATOR
DATE

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

L. Allen Moore
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE R16.99

# OVERHEAD SIGN OS18-1
# LOG OF TEST BORINGS

SDS-53

GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:02
FILE => 0420000235oc053.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES

| REVISION DATES | | | | SHEET | OF |
|---|---|---|---|---|---|
| 07-31-20 | 03-30-21 | 08-30-21 | 09-29-21 | 53 | 65 |

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 973 | 1710 |

09-29-21
REGISTERED GEOTECHNICAL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — L. Allen Moore — No. GE 2607 — Exp. 6-30-23 — GEOTECHNICAL — STATE OF CALIFORNIA

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

## BENCH MARK

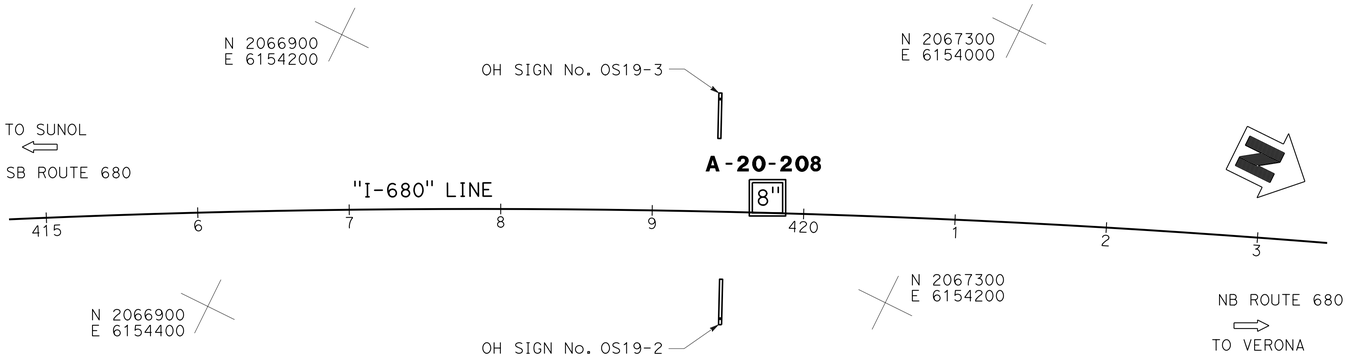
All elevations based on vertical datum NAVD88.
All stations and offsets based on horizontal datum NAD83.
Survey Control ID 119 El 257.23, N2039888.419 E6164368.97.

## NOTES

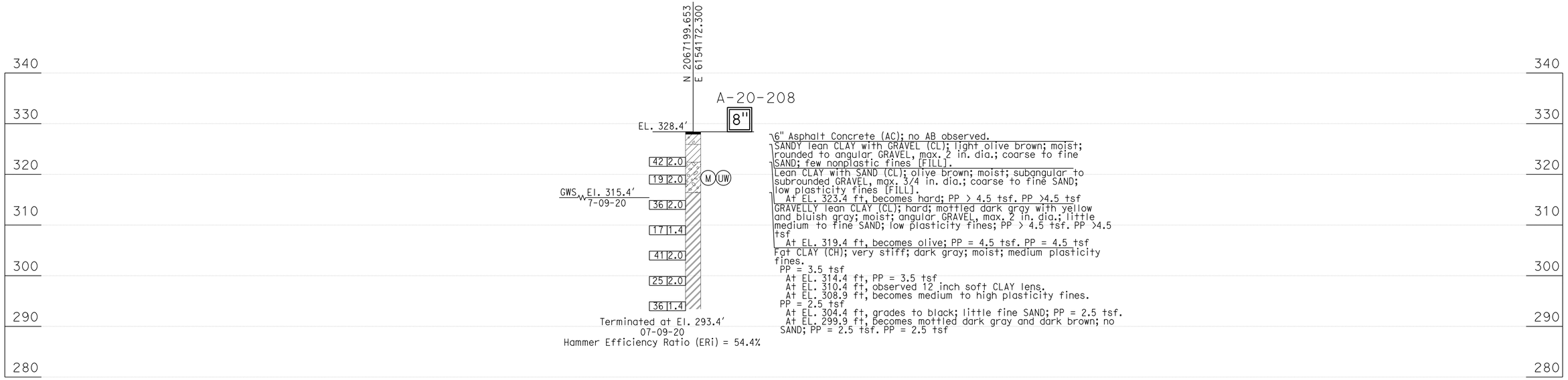
1. This LOTB Sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).
2. Standard Penetration test sampler I.D. = 1.38 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)

BOREHOLE LOCATION TABLE

| Hole ID | Alignment Name | Station and Offset |
|---|---|---|
| A-20-208 | "I-680" LINE | 419+76 10′ Lt |




**PLAN**
1"=50′




| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| DESIGN OVERSIGHT Norbert Gee | DRAWN | BY E. Garnica | Tim Vande Voorde FIELD INVESTIGATOR | | PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | L. Allen Moore PROJECT ENGINEER | BRIDGE No. N/A | OVERHEAD SIGN OS19-2 AND OS19-3 | SDS-54 |
| 2/15/22 SIGN OFF DATE | CHECKED | BY A. M. Moore | DATE | | | | POST MILE R17.36, R17.36 | LOG OF TEST BORINGS | |

GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REVISION 4/19/2018)
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:02
FILE => 0420000235oc054.dgn USERNAME => p302438
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4
DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 07-31-20 | 03-30-21 | 08-30-21 | 09-29-21
SHEET 54 OF 65

## BENCH MARK

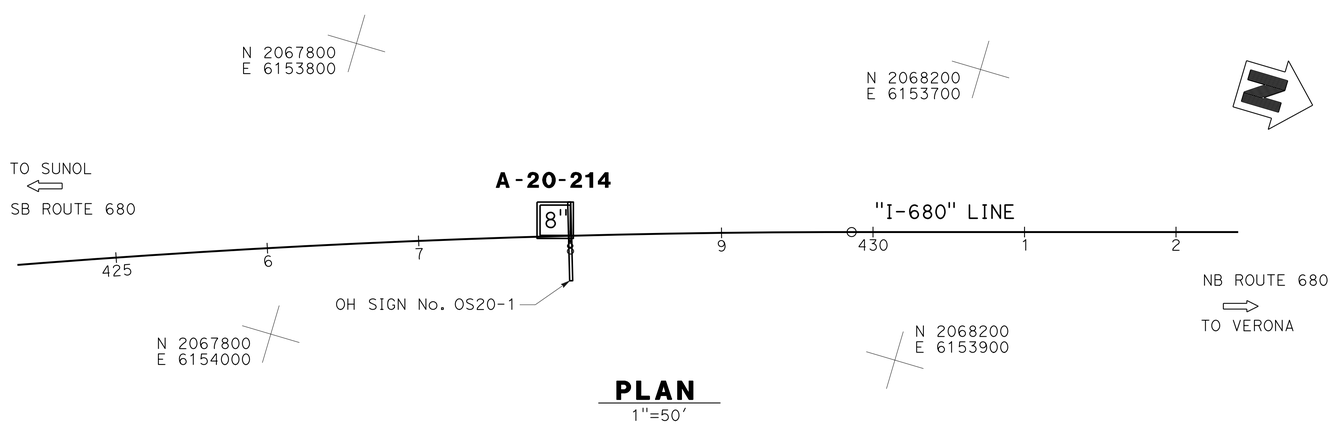
All elevations based on vertical datum NAVD88.
All stations and offsets based on horizontal datum NAD83.
Survey Control ID 119 El 257.23, N2039888.419 E6164368.97.

## NOTES

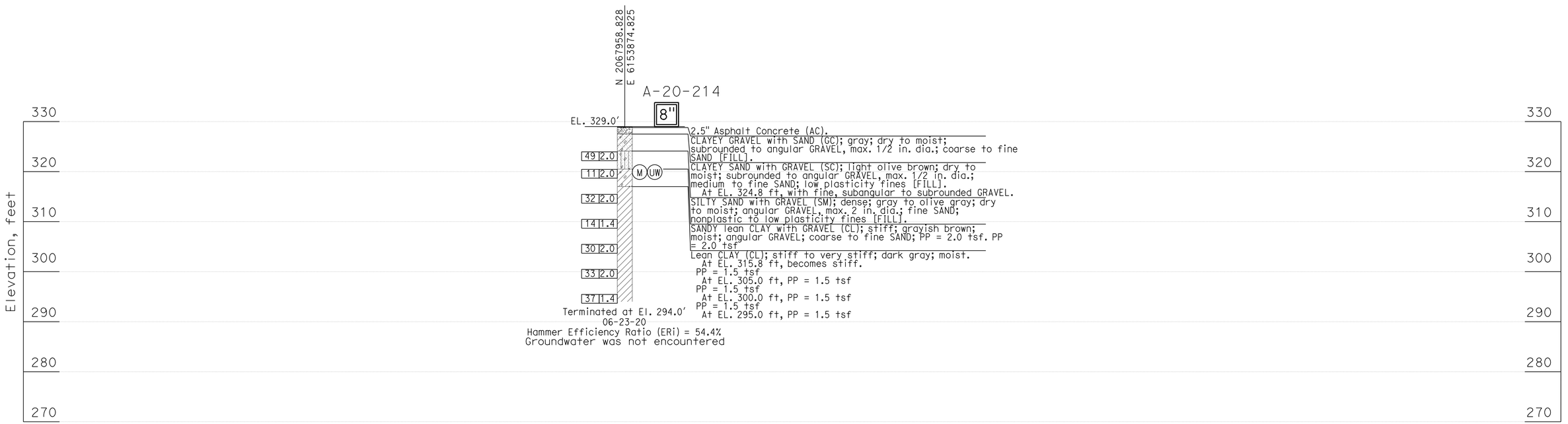
1. This LOTB Sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).
2. Standard Penetration test sampler I.D. = 1.38 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)

BOREHOLE LOCATION TABLE

| Hole ID | Alignment Name | Station and Offset |
|---|---|---|
| A-20-214 | "I-680" LINE | 427+90 11' Lt |




**PLAN**
1"=50'




| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 974 | 1710 |

09-29-21
REGISTERED GEOTECHNICAL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
L. Allen Moore
No. GE 2607
Exp. 6-30-23
GEOTECHNICAL
STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

DRAWN BY E. Garnica
CHECKED BY A. M. Moore

Tim Vande Voorde
FIELD INVESTIGATOR
DATE

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

L. Allen Moore
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE R17.52

# OVERHEAD SIGN OS20-1
# LOG OF TEST BORINGS

SDS-55

GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:02
FILE => 0420000235oc055.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | | SHEET | OF |
|---|---|---|---|---|---|
| 07-31-20 | 03-30-21 | 08-30-21 | 09-29-21 | 55 | 65 |

## BENCH MARK

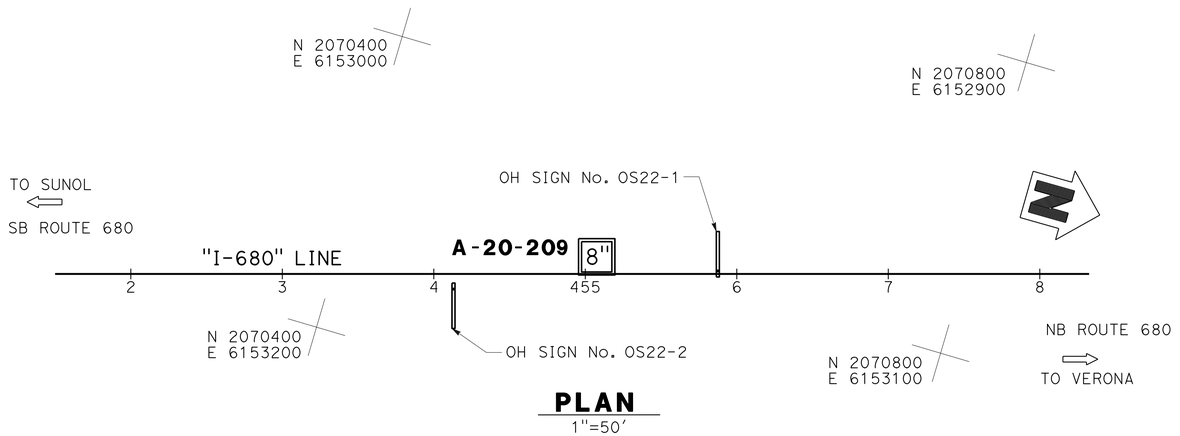
All elevations based on vertical datum NAVD88.
All stations and offsets based on horizontal datum NAD83.
Survey Control ID 119 El 257.23, N2039888.419 E6164368.97.

## NOTES

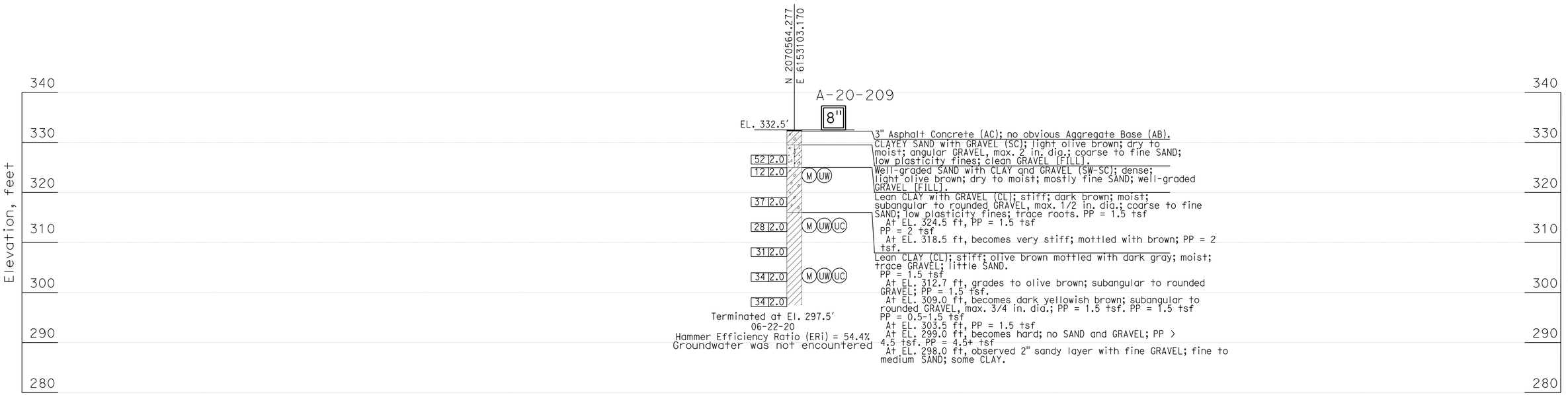
1. This LOTB Sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).
2. Standard Penetration test sampler I.D. = 1.38 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)

BOREHOLE LOCATION TABLE

| Hole ID | Alignment Name | Station and Offset |
|---|---|---|
| A-20-209 | "I-680" LINE | 455+08 11′ Lt |




PLAN
1"=50′




| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 975 | 1710 |

09-29-21
REGISTERED GEOTECHNICAL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — L. Allen Moore — No. GE 2607 — Exp. 6-30-23 — GEOTECHNICAL — STATE OF CALIFORNIA

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ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

DESIGN OVERSIGHT Norbert Gee
2/15/22
SIGN OFF DATE

DRAWN BY E. Garnica
CHECKED BY A. M. Moore

Tim Vande Voorde
FIELD INVESTIGATOR
DATE

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

L. Allen Moore
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE R18.0.04, R18.02

# OVERHEAD SIGN OS22-1 AND OS22-2
# LOG OF TEST BORINGS

SDS-56

GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:02
FILE => 0420000235oc056.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | |
|---|---|---|---|
| 07-31-20 | 03-30-21 | 08-30-21 | 09-29-21 |

SHEET 56 OF 65

7-MAR-2022 TIME PLOTTED => 15:02

## BENCH MARK

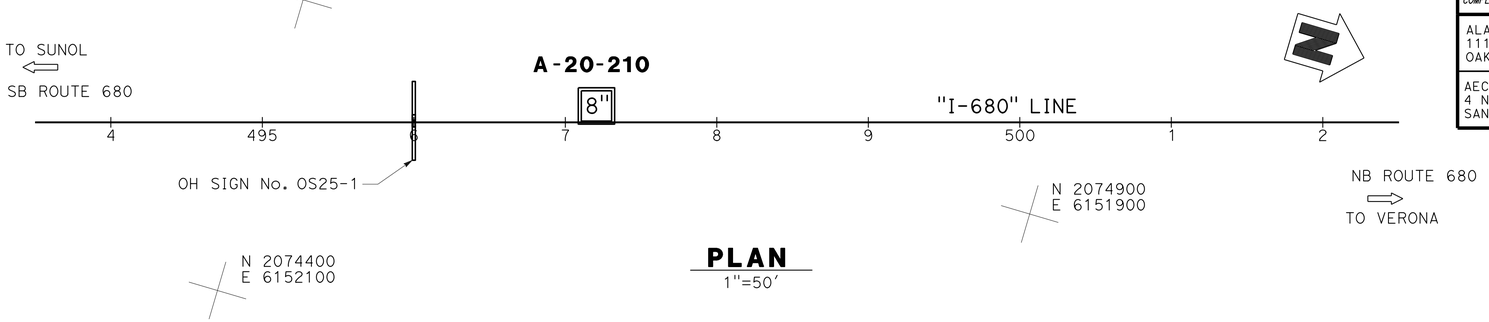
All elevations based on vertical datum NAVD88.
All stations and offsets based on horizontal datum NAD83.
Survey Control ID 119 El 257.23, N2039888.419 E6164368.97.

## NOTES

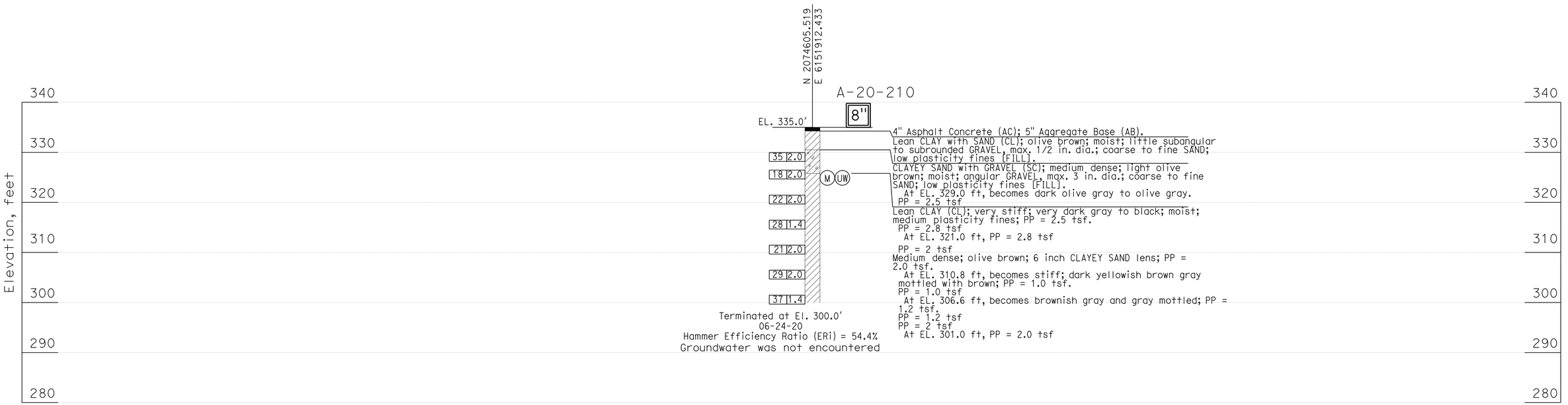
1. This LOTB Sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).
2. Standard Penetration test sampler I.D. = 1.38 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)

BOREHOLE LOCATION TABLE

| Hole ID | Alignment Name | Station and Offset |
|---|---|---|
| A-20-210 | "I-680" LINE | 497+21 11′ Lt |




**PLAN**
1"=50′




| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 976 | 1710 |

09-29-21
REGISTERED GEOTECHNICAL ENGINEER DATE

L. Allen Moore
No. GE 2607
Exp. 6-30-23
REGISTERED PROFESSIONAL ENGINEER
GEOTECHNICAL
STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

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ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

DRAWN BY E. Garnica
CHECKED BY A. M. Moore

Tim Vande Voorde
FIELD INVESTIGATOR
DATE

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

L. Allen Moore
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE R18.81

# OVERHEAD SIGN OS25-1
# LOG OF TEST BORINGS

SDS-57

GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:02
FILE => 0420000235oc057.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 07-31-20 | 03-30-21 | 08-30-21 | 09-29-21

SHEET 57 OF 65

## BENCH MARK

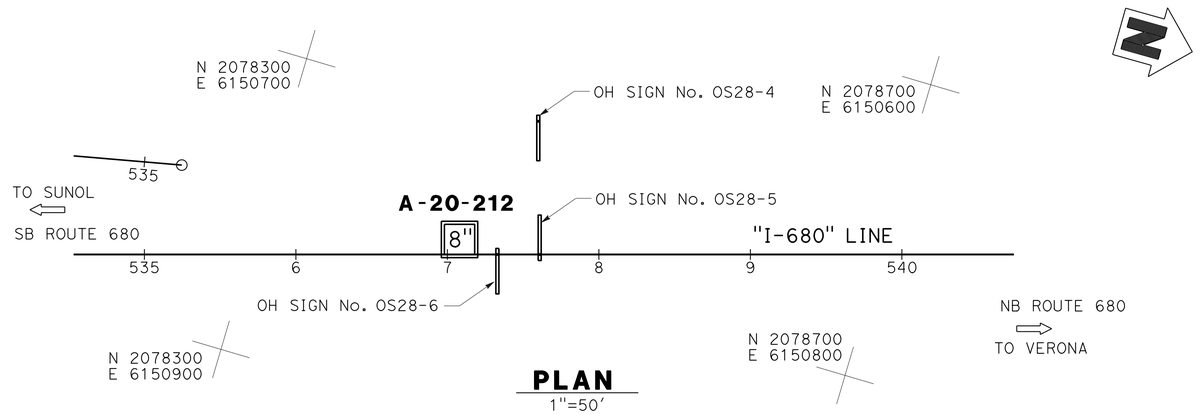
All elevations based on vertical datum NAVD88.
All stations and offsets based on horizontal datum NAD83.
Survey Control ID 119 El 257.23, N2039888.419 E6164368.97.

## NOTES

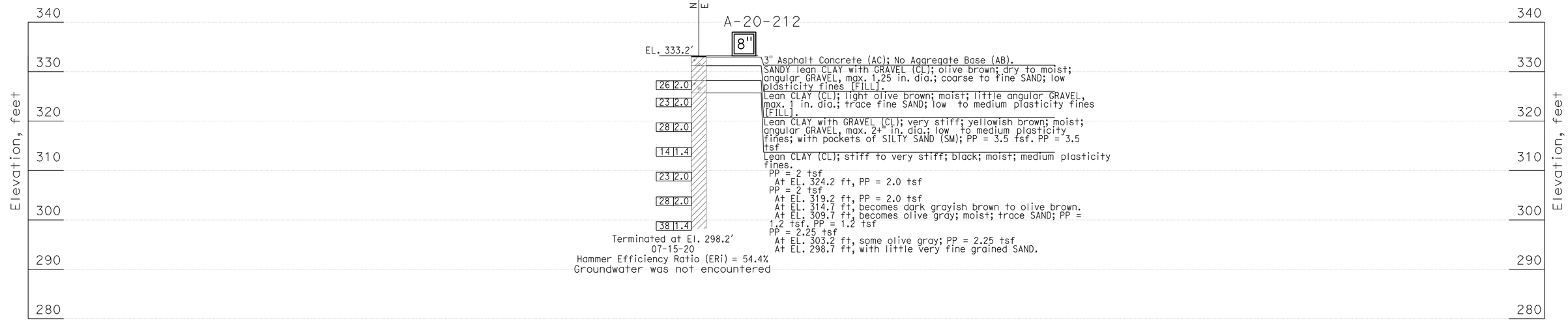
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2. Standard Penetration test sampler I.D. = 1.38 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)

BOREHOLE LOCATION TABLE

| Hole ID | Alignment Name | Station and Offset |
|---|---|---|
| A-20-212 | "I-680" LINE | 537+08 10' Lt |




**PLAN**
1"=50'




| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 977 | 1710 |

09-29-21
REGISTERED GEOTECHNICAL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER — L. Allen Moore — No. GE 2607 — Exp. 6-30-23 — GEOTECHNICAL — STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

DRAWN BY E. Garnica
CHECKED BY A. M. Moore

Tim Vande Voorde
FIELD INVESTIGATOR
DATE

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

L. Allen Moore
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE R19.59, R19.59, R1958

# OVERHEAD SIGN OS28-4, OS28-5 AND OS28-6
# LOG OF TEST BORINGS

SDS-58

GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:02
FILE => 0420000235oc058.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 07-31-20 | 03-30-21 | 08-30-21 | 09-29-21

SHEET 58 OF 65

## BENCH MARK

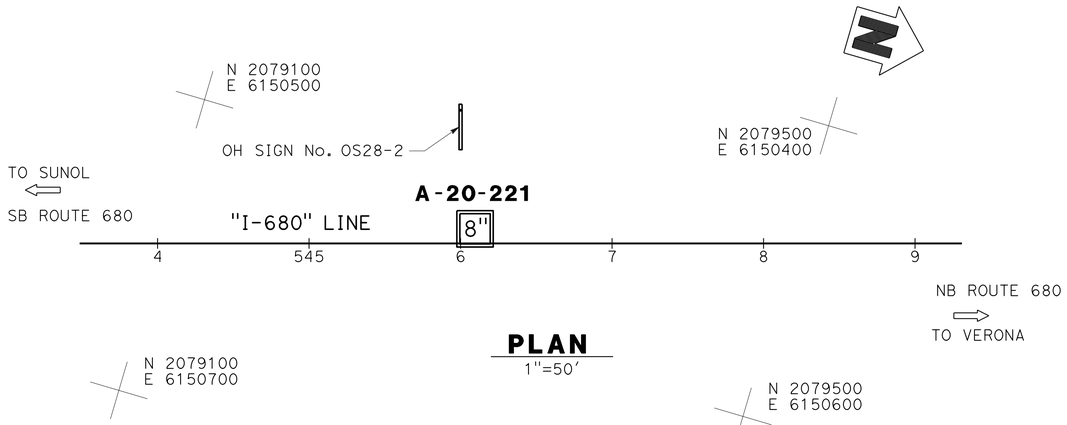
All elevations based on vertical datum NAVD88.
All stations and offsets based on horizontal datum NAD83.
Survey Control ID 119 El 257.23, N2039888.419 E6164368.97.

## NOTES

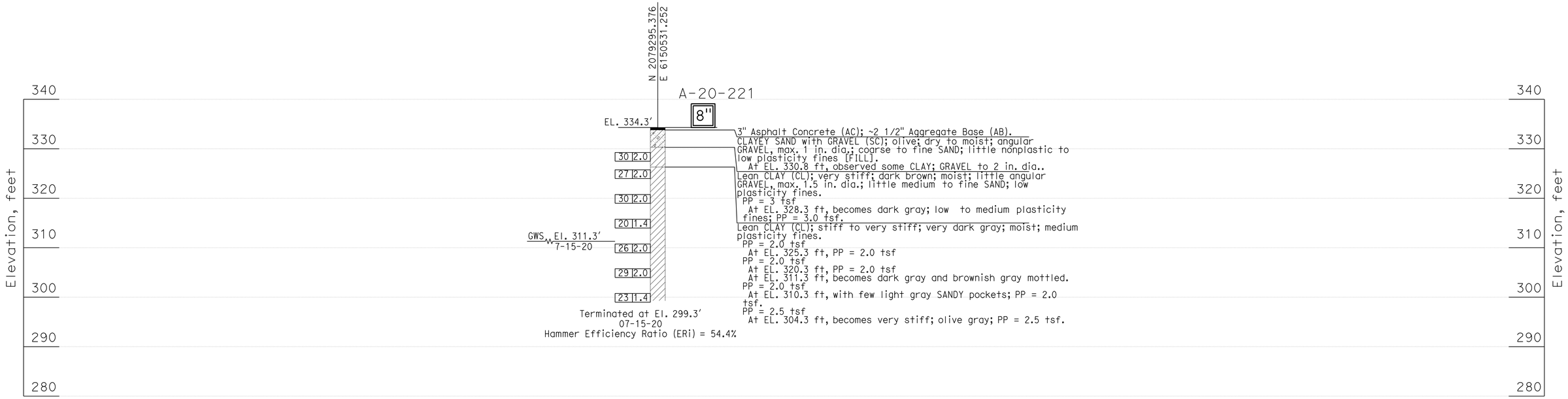
1. This LOTB Sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).
2. Standard Penetration test sampler I.D. = 1.38 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)

BOREHOLE LOCATION TABLE

| Hole ID | Alignment Name | Station and Offset |
|---|---|---|
| A-20-221 | "I-680" LINE | 546+10 10' Lt |




**PLAN**
1"=50'




| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 978 | 1710 |

09-29-21
REGISTERED GEOTECHNICAL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
L. Allen Moore
No. GE 2607
Exp. 6-30-23
GEOTECHNICAL
STATE OF CALIFORNIA

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

ALAMEDA CTC
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OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

DRAWN BY E. Garnica
CHECKED BY A. M. Moore

Tim Vande Voorde
FIELD INVESTIGATOR
DATE

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

L. Allen Moore
PROJECT ENGINEER

BRIDGE No. N/A
POST MILE R19.75

# OVERHEAD SIGN OS28-2
# LOG OF TEST BORINGS

SDS-59

GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REVISION 4/19/2018)

DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:02
FILE => 04200002350c059.dgn USERNAME => p302438

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0Q30U4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 07-31-20 | 03-30-21 | 08-30-21 | 09-29-21

SHEET 59 OF 65

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 979 | 1710 |

09-29-21
REGISTERED GEOTECHNICAL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — L. Allen Moore — No. GE 2607 — Exp. 6-30-23 — GEOTECHNICAL — STATE OF CALIFORNIA

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ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

## BENCH MARK

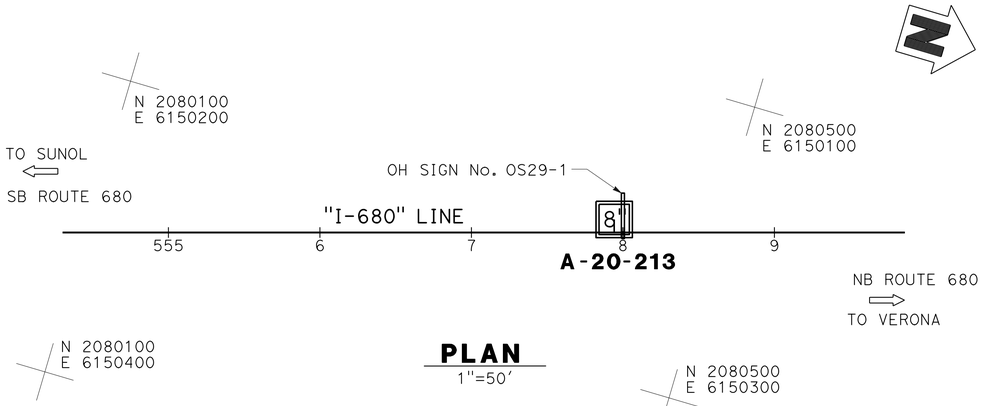
All elevations based on vertical datum NAVD88.
All stations and offsets based on horizontal datum NAD83.
Survey Control ID 119 El 257.23, N2039888.419 E6164368.97.

## NOTES

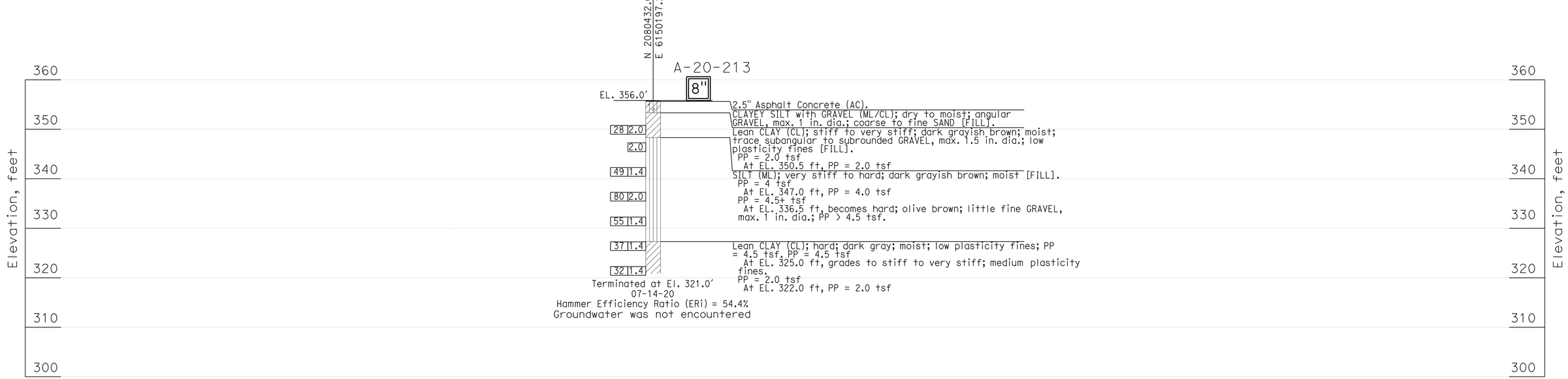
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2. Standard Penetration test sampler I.D. = 1.38 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)

BOREHOLE LOCATION TABLE

| Hole ID | Alignment Name | Station and Offset |
|---|---|---|
| A-20-213 | "I-680" LINE | 557+94 9' Lt |




**PLAN**
1"=50'




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DESIGN OVERSIGHT Norbert Gee | DRAWN | BY E. Garnica | Tim Vande Voorde FIELD INVESTIGATOR | PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | L. Allen Moore PROJECT ENGINEER | BRIDGE NO. N/A | OVERHEAD SIGN OS29-1 | SDS-60 |
| 2/15/22 SIGN OFF DATE | CHECKED | BY A. M. Moore | DATE | | | POST MILE R19.99 | LOG OF TEST BORINGS | |

GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REVISION 4/19/2018)
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:02
FILE => 0420000235oc060.dgn USERNAME => p302438
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4
DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES: 07-31-20 | 03-30-21 | 08-30-21 | 09-29-21
SHEET 60 OF 65

## BENCH MARK

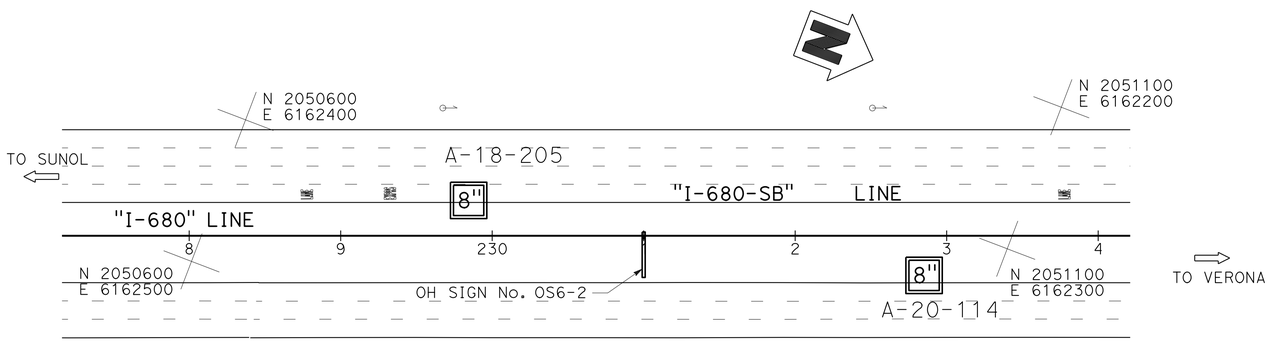
All elevations based on vertical datum NAVD88.
All stations and offsets based on horizontal datum NAD83.
Survey Control ID 119 El 257.23, N2039888.419 E6164368.97.

## NOTES

1. This LOTB Sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).
2. Standard Penetration test sampler I.D. = 1.38 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)
3. REF is defined as more than 50 blows in the first 6 inches.
4. Cobbles and boulders could be present based on information from published geologic maps.

BOREHOLE LOCATION TABLE

| Hole ID | Alignment Name | Station and Offset |
|---|---|---|
| A-18-205 | "I-680" LINE | 229+84 24' Lt |
| A-20-114 | "I-680" LINE | 232+85 26' Rt |




**PLAN**
1"=50'

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 980 | 1710 |

9-29-21
REGISTERED GEOTECHNICAL ENGINEER DATE

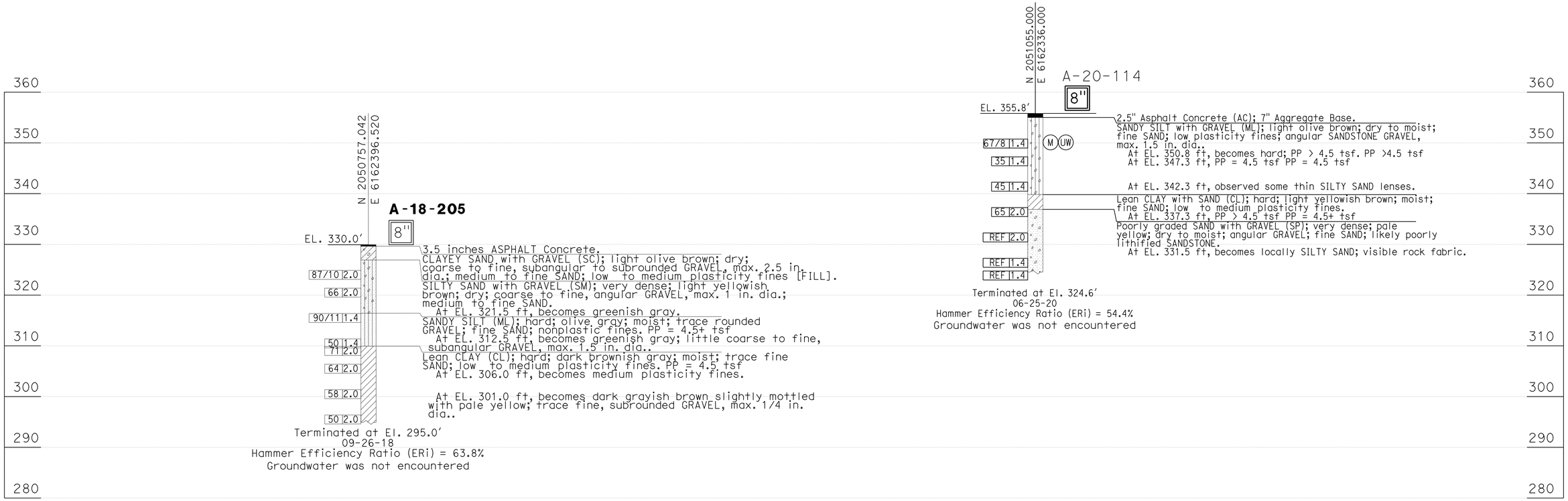
October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — L. Allen Moore — No. GE 2607 — Exp. 6-30-23 — GEOTECHNICAL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DESIGN OVERSIGHT Norbert Gee<br>2/15/22 SIGN OFF DATE | DRAWN | BY E. Garnica | Tim Vande Voorde<br>FIELD INVESTIGATOR | PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | L. Allen Moore<br>PROJECT ENGINEER | BRIDGE No. N/A<br>POST MILE R13.79 | OVERHEAD SIGN OS6-2<br>LOG OF TEST BORINGS | SDS-61 |
| | CHECKED | BY A. M. Moore | DATE | | | | | |

GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REVISION 4/19/2018)
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:02
FILE => 0420000235oc061.dgn USERNAME => p302438
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4
DISREGARD PRINTS BEARING EARLIER REVISION DATES

| REVISION DATES | | | | SHEET | OF |
|---|---|---|---|---|---|
| 07-31-20 | 03-30-21 | 08-30-21 | 09-29-21 | 61 | 65 |

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/0.9 | 981 | 1710 |

09-29-21
REGISTERED GEOTECHNICAL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
L. Allen Moore
No. GE 2607
Exp. 6-30-23
GEOTECHNICAL
STATE OF CALIFORNIA

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ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

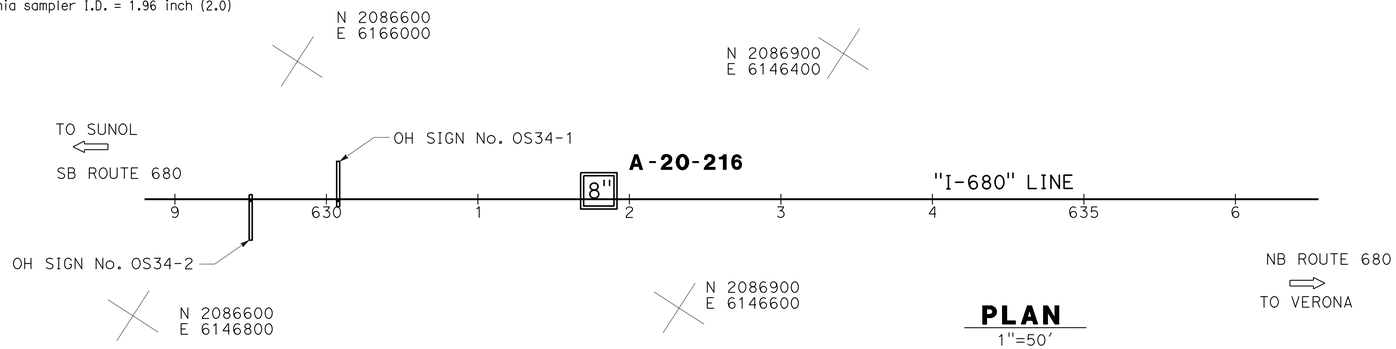
AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

## BENCH MARK

All elevations based on vertical datum NAVD88.
All stations and offsets based on horizontal datum NAD83.
Survey Control ID 119 El 257.23, N2039888.419 E6164368.97.

## NOTES

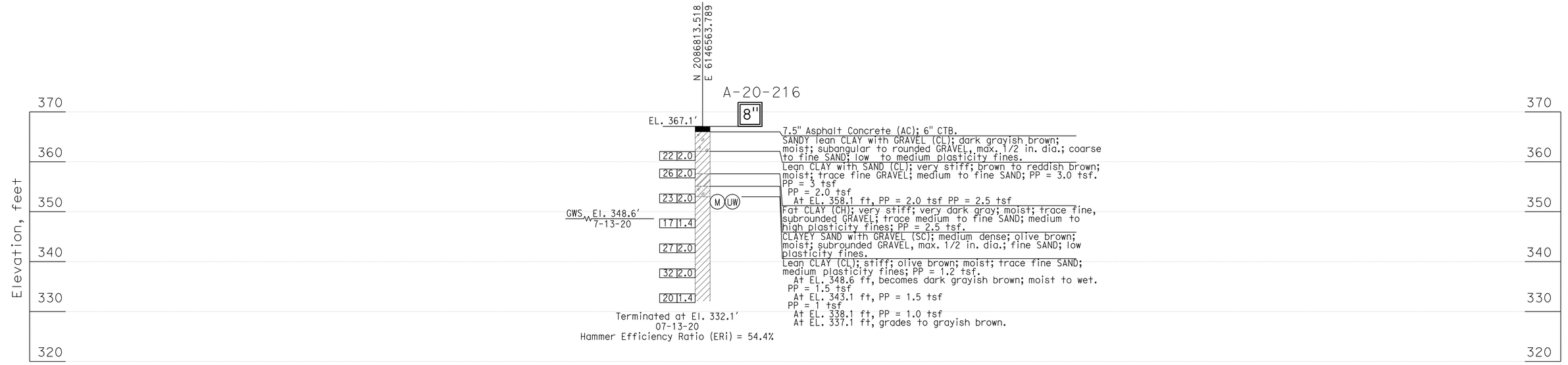
1. This LOTB Sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).
2. Standard Penetration test sampler I.D. = 1.38 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)




**PLAN**
1"=50'

BOREHOLE LOCATION TABLE

| Hole ID | Alignment Name | Station and Offset |
|---|---|---|
| A-20-216 | "I-680" LINE | 631+80 6' Lt |




| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| DESIGN OVERSIGHT Norbert Gee | DRAWN | BY E. Garnica | Tim Vande Voorde FIELD INVESTIGATOR | PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | L. Allen Moore PROJECT ENGINEER | BRIDGE No. N/A | OVERHEAD SIGN OS34-1 AND OS34-2 | SDS-62 |
| 2/15/22 SIGN OFF DATE | CHECKED | BY A. M. Moore | DATE | | | POST MILE R21.34, R21.33 | LOG OF TEST BORINGS | |

GS GEOLOGIST LOG OF TEST BORINGS SHEET (ENGLISH) (REVISION 4/19/2018)
DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:03
FILE => 0420000235oc062.dgn USERNAME => p302438
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
UNIT: 0733
PROJECT NUMBER & PHASE: 04200002351 CONTRACT No.: EA 04-0030U4
DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES: 07-31-20 | 03-30-21 | 08-30-21 | 09-29-21
SHEET 62 OF 65

## BENCH MARK:

All elevations based on vertical datum NAVD88.
All stations and offsets based on California Coordinate System Zone-III, Epoch 1991.

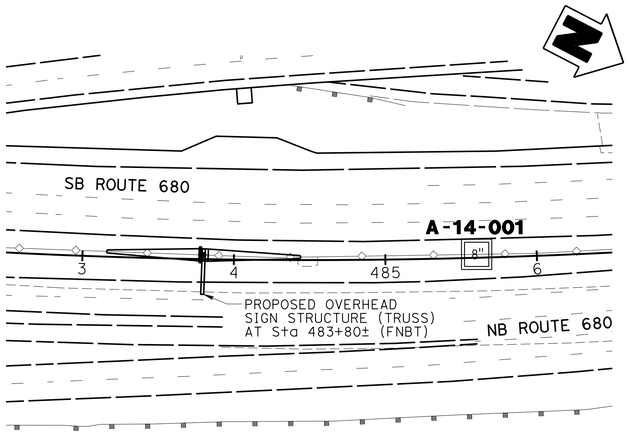
BM No. 1, Monument 501, El 9.35, N2045276.165 E6019489.935
BM No. 2, Monument 1003, El 10.93, N2043769.910 E6021712.494
BM No. 3, Monument 505, El 10.21, N2043140.717 E6021760.224
BM No. 4, Monument 74, El 35.48, N2042621.214 E6022476.873
BM No. 5, Monument 510, El 12.66 N2042355.119 E6022633.562

## NOTES:

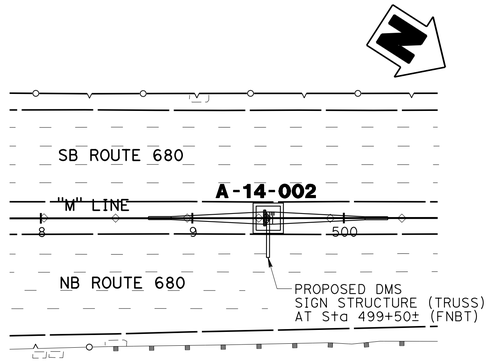
1. This LOTB Sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).
2. Standard Penetration test sampler I.D. = 1.44 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)
3. UC values reported are undrained shear strengths in tsf.

## ABBREVIATIONS:

DMS: Dynamic Messaging Sign
FNBT: Facing Northbound Traffic




PLAN
1" = 50'




**AS BUILT**
CONTRACT No. 04-3G9504
C.C.A. DATE 06-02-16
R.E. NAME N. HISSEN

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala/CC | 680 | R21.0-R21.9/ R0.0-14.0 | 567 | 617 |

GEOTECHNICAL PROFESSIONAL — 4-08-15 DATE

4-21-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Stephen Huang — No. C 42289 — Exp. 3-31-16 — GEOTECHNICAL — STATE OF CALIFORNIA

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URS CORPORATION
100 WEST SAN FERNANDO STREET, SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

**DIVISION OF ENGINEERING SERVICES - GEOTECHNICAL SERVICES**

As-Built Log of Test Borings sheet is considered an informational document only. As such, the State of California registration seal with signature, license number and registration certificate expiration date confirm that this is a true and accurate copy of the original document. This drawing is available and presented only for the convenience of any bidder, contractor or other interested party.

| DIST. | COUNTY | ROUTE | POST MILES-TOTAL PROJECT | Sheet No. | Total Sheets |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 982 | 1710 |

REGISTERED GEOTECHNICAL ENGINEER — 09-29-21 DATE

**OVERHEAD SIGN OS30-2 AND OS31-3**
**LOG OF TEST BORINGS** — SDS-63

NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA

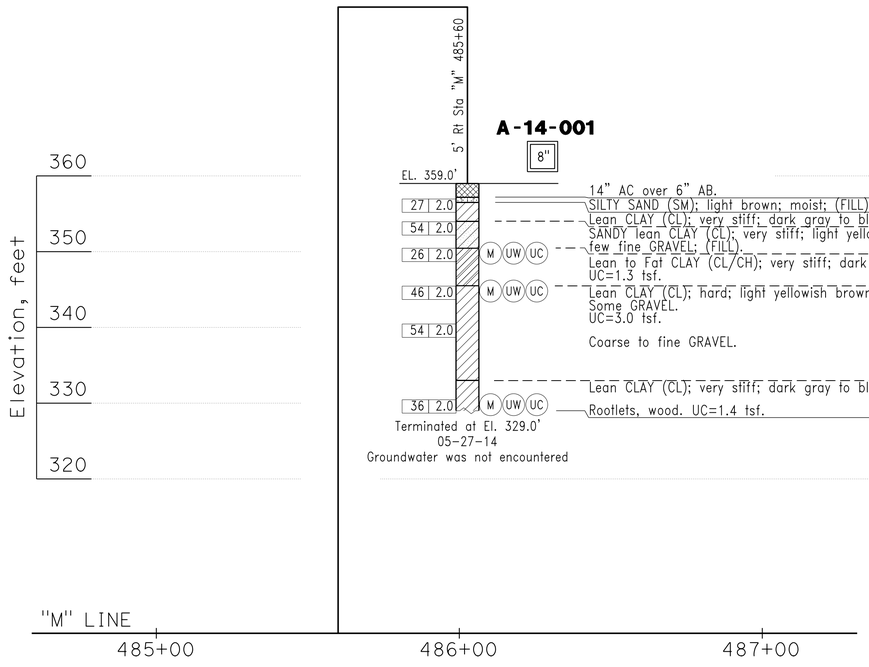
UNIT: 0733
PROJECT NUMBER & PHASE: 0420000235

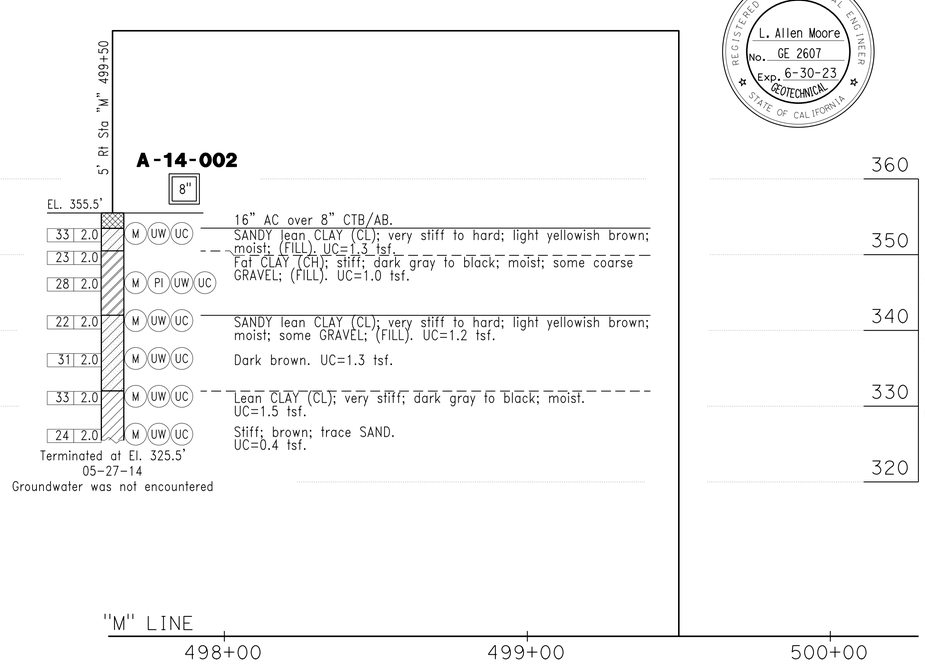
AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

| BRIDGE No. | Sheet | of |
|---|---|---|
| N/A | 63 | 65 |

October 8, 2021
PLANS APPROVAL DATE




PROFILE
Ver. 1" = 10'
Hor. 1" = 25'

REGISTERED PROFESSIONAL ENGINEER — L. Allen Moore — No. GE 2607 — Exp. 6-30-23 — GEOTECHNICAL — STATE OF CALIFORNIA

Norbert Gee
DESIGN OVERSIGHT
2/15/22
SIGN OFF DATE

| DRAWN BY | B. Vuong |
|---|---|
| CHECKED BY | A. M. Moore |

M. Thummaluru
FIELD INVESTIGATION BY:
DATE:

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

S. Huang
PROJECT ENGINEER

| BRIDGE NO. | N/A |
|---|---|
| POST MILES | N/A |

# OVERHEAD SIGN STRUCTURES
# LOG OF TEST BORINGS No. 1

GS GEOTECHNICAL LOG OF TEST BORINGS SHEET (ENGLISH) (REV. 7/16/10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: -
PROJECT NUMBER & PHASE: 04140004891 CONTRACT NO.: 04-3G9501

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES

SHEET 1 OF 15

FILE => 0420000235oc063.dgn

USERNAME => p302033 DATE PLOTTED => 7-MAR-2022 TIME PLOTTED => 15:03

## BENCH MARK:

All elevations based on vertical datum NAVD88.
All stations and offsets based on California Coordinate System Zone-III, Epoch 1991.

BM No. 1, Monument 501, El 9.35, N2045276.165 E6019489.935
BM No. 2, Monument 1003, El 10.93, N2043769.910 E6021712.494
BM No. 3, Monument 505, El 10.21, N2043140.717 E6021760.224
BM No. 4, Monument 74, El 35.48, N2042621.214 E6022476.873
BM No. 5, Monument 510, El 12.66 N2042355.119 E6022633.562

## NOTES:

1. This LOTB Sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).
2. Standard Penetration test sampler I.D. = 1.44 inch (1.4) Modified California sampler I.D. = 1.96 inch (2.0)
3. UC values reported are undrained shear strengths in tsf.

## ABBREVIATIONS:

FNBT: Facing Northbound Traffic

**AS BUILT**
CONTRACT No. 04-3G9504
C.C.A. DATE 06-02-16
R.E. NAME N. HISSEN

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala/CC | 680 | R21.0-R21.9/ R0.0-14.0 | 568 | 617 |

GEOTECHNICAL PROFESSIONAL — 4-08-15 DATE

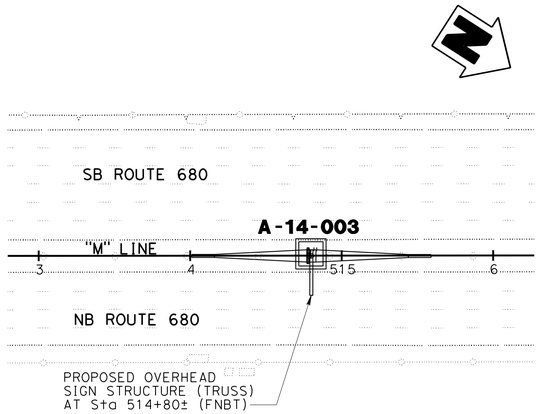
4-21-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Stephen Huang — No. C 42289 — Exp. 3-31-16 — GEOTECHNICAL — STATE OF CALIFORNIA

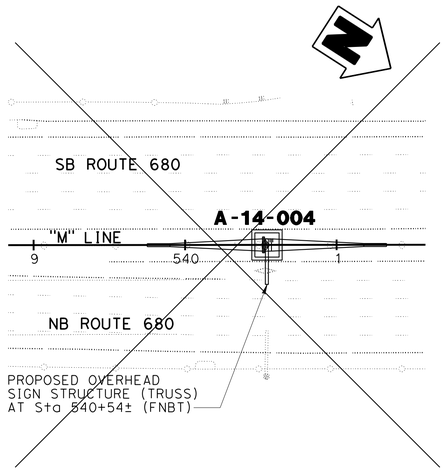
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SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607




PLAN
1" = 50'




**DIVISION OF ENGINEERING SERVICES - GEOTECHNICAL SERVICES**

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| DIST. | COUNTY | ROUTE | POST MILES-TOTAL PROJECT | Sheet No. | Total Sheets |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 983 | 1710 |

REGISTERED GEOTECHNICAL ENGINEER — 09-29-21 DATE

**OVERHEAD SIGN OS32-3**
**LOG OF TEST BORINGS** — SDS-64

NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA

UNIT: 0733
PROJECT NUMBER & PHASE: 0420000235

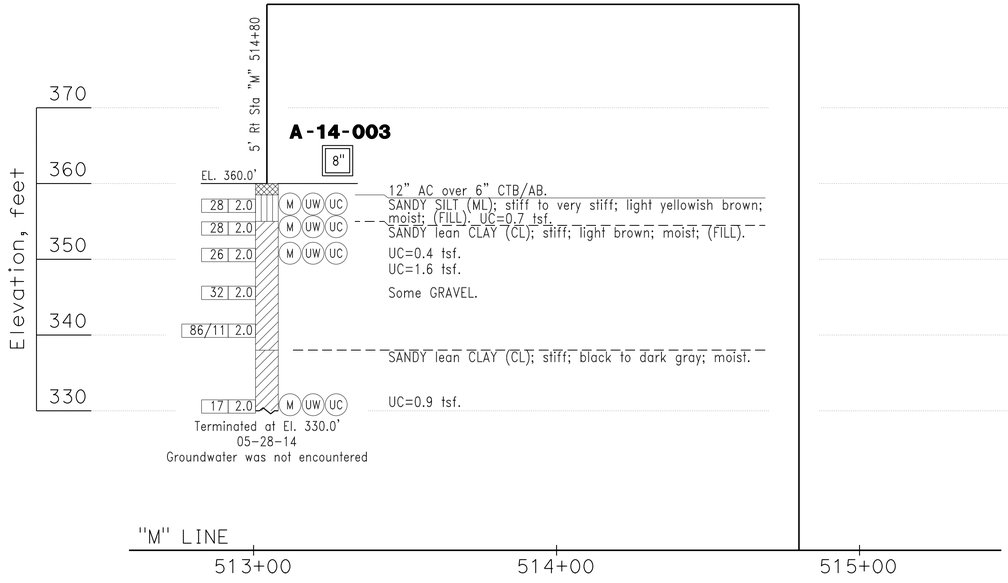
AECOM
4 N. SECOND STREET, SUITE 675
SAN JOSE, CA 95113

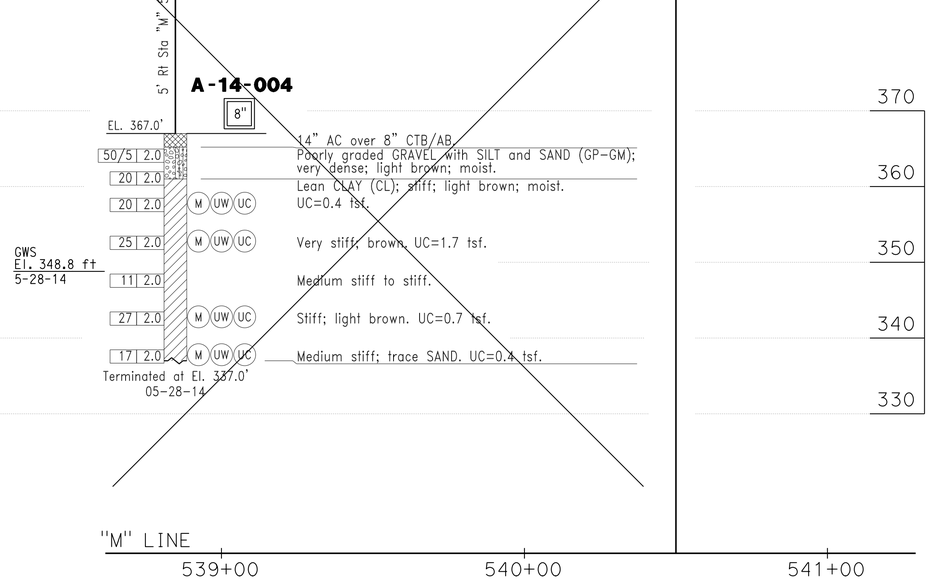
ALAMEDA CTC
1111 BROADWAY, SUITE 800
OAKLAND, CA 94607

| BRIDGE No. | Sheet | of |
|---|---|---|
| N/A | 64 | 65 |

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — L. Allen Moore — No. GE 2607 — Exp. 6-30-23 — GEOTECHNICAL — STATE OF CALIFORNIA




PROFILE
Ver. 1" = 10'
Hor. 1" = 25'

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Norbert Gee — DESIGN OVERSIGHT | DRAWN BY | B. Vuong | M. Thummaluru — FIELD INVESTIGATION BY: | PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | S. Huang — PROJECT ENGINEER | BRIDGE NO. N/A | OVERHEAD SIGN STRUCTURES |
| 2/15/22 — SIGN OFF DATE | CHECKED BY | A. M. Moore | DATE: | | | POST MILES N/A | LOG OF TEST BORINGS No. 2 |

GS GEOTECHNICAL LOG OF TEST BORINGS SHEET (ENGLISH) (REV. 7/16/10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: -
PROJECT NUMBER & PHASE: 04140004891 CONTRACT NO.: 04-3G9501

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

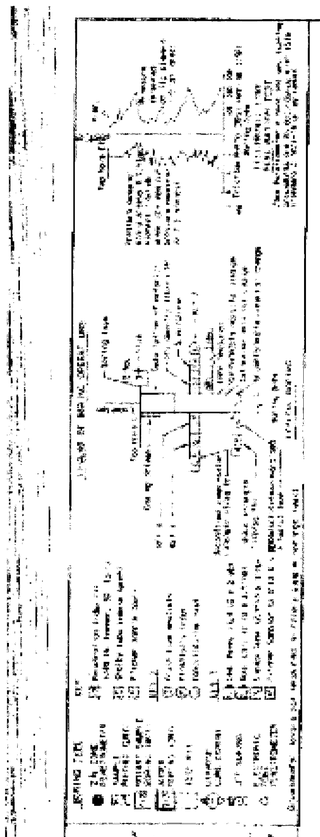
REVISION DATES

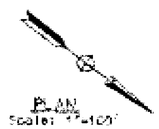
SHEET 2 OF 15

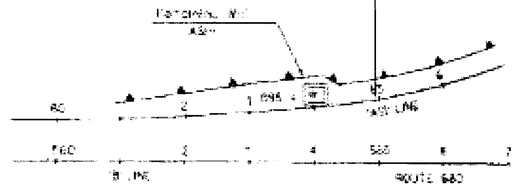
USERNAME => $USER DATE PLOTTED => $DATE TIME PLOTTED => $TIME
FILE => $REQUEST

THIS IS A COPY

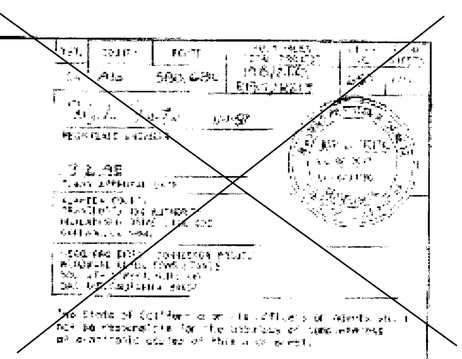
R11.0/R21.9, R0.0/R0.9 1604 1710



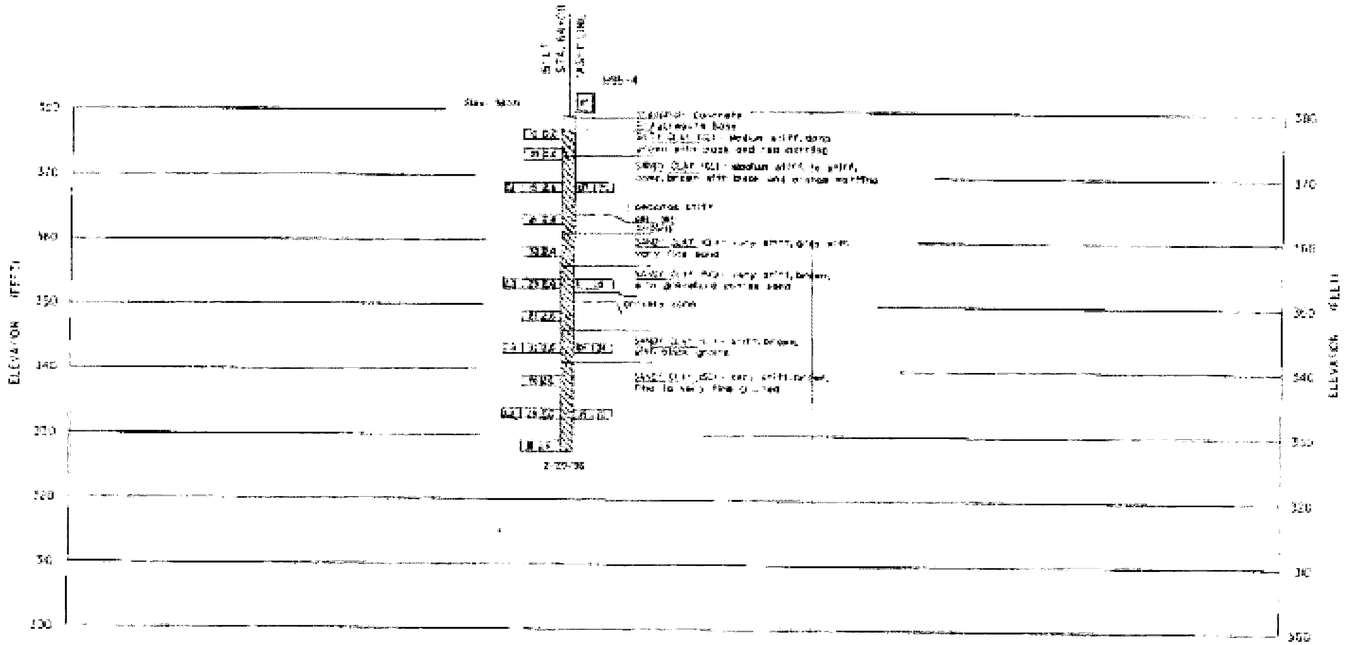



BENCHMARK:
STATE HIGHWAY MONUMENT "ALCO25
BRASS DISK ON THE A.C.P.T.A. OVERPASS IN
THE SIDEWALK ON NORTH SIDE AT THE CENTER OF THE
BRIDGE
ELEV. 388.3' (CITY OF FREMONT DATUM)
ELEV. 409.07' (NGVD 29)



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AS BUILT CHANGES UNKNOWN

| DIVISION OF ENGINEERING SERVICES - GEOTECHNICAL SERVICES | | | | | |
|---|---|---|---|---|---|
| As-Built Log of Test Borings sheet is considered an informational document only. As such, the State of California registration seal with signature, license number and registration certificate expiration date confirm that this is a true and accurate copy of the original document. This drawing is available and presented only for the convenience of any bidder, contractor or other interested party. | | | | | |
| DIST. | COUNTY | ROUTE | POST MILES-TOTAL PROJECT | Sheet No. | Total Sheets |
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 984 | 1710 |
| REGISTERED GEOTECHNICAL ENGINEER | | | | 09-29-21 DATE | |
| OVERHEAD SIGN OS36-1 | | | | SDS-65 | |
| LOG OF TEST BORINGS | | | | | |
| NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA | | | UNIT: PROJECT NUMBER & PHASE: | 0733 04200002351 | |
| AECOM<br>4 N. SECOND STREET, SUITE 675<br>SAN JOSE, CA 95113 | | | ALAMEDA CTC<br>1111 BROADWAY, SUITE 800<br>OAKLAND, CA 94607 | | |
| | | | BRIDGE No. | Sheet | of |
| | | | N/A | 65 | 65 |

REGISTERED PROFESSIONAL ENGINEER
L. Allen Moore
No. GE 2607
Exp. 6-30-23
GEOTECHNICAL
STATE OF CALIFORNIA

PROFILE
Scale: Horiz. 1"=50'
Scale: Vert. 1"=5'

WATERLINE

60+00 61+00 62+00 63+00 64+00 65+00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DESIGN BY | R. ADLEBRO | DESIGNED JAMES | PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | Gary Mikaelson | BRIDGE NO. 33L0024 POST MILE | RETAINING WALL NO. | |
| CHECKED BY | L. OAKLEY | FIELD INVESTIGATOR | | PROJECT ENGINEER | | LOG OF TEST BORINGS | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 1 2 3 | | | CU 042252<br>EA 725021 | | | |

USERNAME => LeeC10 DATE PLOTTED => 2/25/2022 TIME PLOTTED => 11:35:58 AM

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 985 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Abhijeet R. Bhoi
No. 68606
Exp. 9-30-23
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

AECOM
4 N. Second Street
Suite 675
San Jose, CA 95113

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607

NOTES:

1. EXACT LOCATION AND POSITION OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.
2. POST LENGTHS GIVEN ARE APPROXIMATE.
3. "C" = VERTICAL CLEARANCE EP TO BOTTOM OF SIGN PANEL.

# ROADSIDE SIGN QUANTITIES

| SHEET No. | SIGN No. (SIGN-No.) | SIGN DESIGNATION | "C" DIM IN FEET | POST SIZE AND LENGTH (N) | | | | | ROADSIDE SIGN | | REMOVE ROADSIDE SIGN (WOOD POST) | REMOVE ROADSIDE SIGN (SSBM) | REMOVE ROADSIDE SIGN PANEL | REMOVE ROADSIDE SIGN (METAL POST) | INSTALL ROADSIDE SIGN PANEL ON EXISTING POST | INSTALL SIGN (SSBM) | METAL (BARRIER MOUNTED SIGN) | INSTALL ROADSIDE SIGN (LAMINATED WOOD BOX POST) | RELOCATE ROADSIDE SIGN | RELOCATE SIGN PANEL ** | REMOVE SIGN OVERLAY ** | TREATED WOOD WASTE * | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | WOOD POST | | | | LAMINATED WOOD BOX POST, TYPE M | ONE POST | TWO POST | | | | | | | | | | | | | | |
| | | | | 4"x4" | 4"x6" | 6"x6" | 6"x8" | | EA | | EA | EA | EA | EA | EA | EA | LB | EA | EA | EA | EA | LB | |
| S-1 | S1-1 | R6-1 (L†)<br>R6-1 (R†) | 1.5 | | 7.5′ | | | | 1 | | | | | | | | | | | | | | INSTALL SIGNS BACK TO BACK |
| | S1-2 | R6-1 (L†)<br>R6-1 (R†) | | | | | | | | | 1 | | | | | | | | | | | 34 | |
| | S1-3 | R5-1<br>R5-1a | 2 | | 11.0′ | | | | 1 | | | | | | | | | | | | | | |
| | S1-4 | R5-1<br>R5-1a | | | | | | | | | 1 | | | | | | | | | | | 94 | |
| | S1-5 | R1-1 | 7 | | 14.5′ | | | | 1 | | | | | | | | | | | | | | |
| | S1-6 | R1-1 | | | | | | | | | 1 | | | | | | | | | | | 103 | |
| | S1-7 | R3-1 (R†) | 7 | | 14.5′ | | | | 1 | | | | | | | | | | | | | | |
| | S1-8 | R3-1 (R†) | | | | | | | | | 1 | | | | | | | | | | | 82 | |
| | S1-9 | R1-1<br>R6-1 (L†)<br>R6-1 (R†) | 7 | | | 14.5′ | | | 1 | | | | | | | | | | | | | | INSTALL R6-1 SIGNS BACK TO BACK, C=1.5′ |
| | S1-10 | R1-1<br>R6-1 (L†)<br>R6-1 (R†) | | | | | | | | | 1 | | | | | | | | | | | 129 | |
| | S1-11 | W3-1 | 7 | 13.0′ | | | | | 1 | | | | | | | | | | | | | | |
| | S1-12 | W3-1 | | | | | | | | | 1 | | | | | | | | | | | 103 | |
| | S1-13 | R5-10c | 7 | 11.0′ | | | | | 1 | | | | | | | | | | | | | | |
| | S1-14 | R5-10c | | | | | | | | | 1 | | | | | | | | | | | 60 | |
| S-3 | S3-1 | R86-3 Mod (CA) | | | | | | | | | | | 1 | | | | | | | | | | |
| S-4 | S4-1 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | | | | 1 | | | | BARRIER MOUNTED SIGN |
| | S4-2 | SR50-2 Mod (CA) | 7 | | | | | | | | | | | | | | | | 1 | | | | BARRIER MOUNTED SIGN |
| | S4-3 | SPECIAL EL | | | | | | | | | | 1 | | | | | | | | | | | |
| | S4-4 | SPECIAL EL | | | | | | | | | | | | | | | | | | 1 | | | |
| S-5 | S5-1 | R86-3 Mod (CA) | 7 | | | | | | | | | | | | | | | | 1 | | | | BARRIER MOUNTED SIGN |
| S-6 | S6-1 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | | | | 1 | | | | BARRIER MOUNTED SIGN |
| | S6-2 | E1-5P Mod<br>G83-1 Mod (CA) | 7 | | | | 17.3′ L†<br>21.6′ R† | | | 1 | | | | | | | | | | | | | |
| | S6-3 | G83-1 Mod (CA) | | | | | | | | | 1 | | | | | | | | | | | 395 | |
| | S6-4 | R3-12 Mod 1 | | | | | | | | | 1 | | | | | | | | | | | 206 | |
| | S6-5 | SPECIAL EL | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| SHEET TOTAL | | | | | | | | | 7 | 1 | 9 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 4 | 1 | 0 | 1,205 | |

(N) - NOT A SEPARATE BID ITEM
* - QUANTITIES INCLUDED IN SUMMARY OF QUANTITIES SHEETS
** - SUMMARY OF QUANTITIES INCLUDED ON SQ-22

## SIGN QUANTITIES

## SQ-1

REVISED BY: SS | DATE REVISED: 9-29-21
CALCULATED-DESIGNED BY: JOSE CORONEL/BENJAMIN DEMONBREUN | CHECKED BY: SHRUTI SHAH
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 986 | 1710 |

ARBhoi
REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi — No. 68606 — Exp. 9-30-23 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.


AECOM
4 N. Second Street
Suite 675
San Jose, CA 95113

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607


# ROADSIDE SIGN QUANTITIES

| SHEET No. | SIGN No. (SIGN-No.) | SIGN DESIGNATION | "C" DIM IN FEET | POST SIZE AND LENGTH (N) WOOD POST 4"x4" | WOOD POST 4"x6" | WOOD POST 6"x6" | WOOD POST 6"x8" | LAMINATED WOOD BOX POST, TYPE M | ROADSIDE SIGN ONE POST | ROADSIDE SIGN TWO POST | REMOVE ROADSIDE SIGN (WOOD POST) | REMOVE ROADSIDE SIGN (SSBM) | REMOVE ROADSIDE SIGN PANEL | REMOVE ROADSIDE SIGN (METAL POST) | INSTALL ROADSIDE SIGN PANEL ON EXISTING POST | INSTALL SIGN (SSBM) | METAL (BARRIER MOUNTED SIGN) | INSTALL ROADSIDE SIGN (LAMINATED WOOD BOX POST) | RELOCATE ROADSIDE SIGN | RELOCATE SIGN PANEL ** | REMOVE SIGN OVERLAY ** | TREATED WOOD WASTE * | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | EA | | | | | EA | | EA | EA | EA | EA | EA | EA | LB | EA | EA | EA | EA | LB | |
| S-7 | S7-1 | R86-3 Mod (CA) | | | | | | | | | 1 | | | | | | | | | | | 103 | |
| | S7-2 | S32 (CA)<br>S32-1 (CA) | 7 | | | 15.3′ | | | 1 | | | | | | | | | | | | | | |
| | S7-3 | S32 (CA)<br>S32-1 (CA) | | | | | | | | | 1 | | | | | | | | | | | 120 | |
| | S7-4 | R86-3 Mod (CA) | | | | | | | | | | | | | | | | | | 1 | | | |
| | S7-5 | R86-3 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | 1 | | |
| | S7-6 | SPECIAL EL-5 | | | | | | | | | 1 | | | | | | | | | | | 223 | |
| | S7-7 | R13-2 Mod 2 | | | | | | | | | 1 | | | | | | | | | | | 206 | |
| S-8 | S8-1 | SPECIAL EL | 7 | | | | | | | | | | | | | | 101 | | | | | | |
| S-9 | S9-1 | E1-5P Mod<br>G86-5 Mod (CA) | 9 | | | 13.7′ Lt<br>14.5′ Rt | | | | 1 | | | | | | | | | | | | | |
| | S9-2 | R86-3 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| | S9-3 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| S-10 | S10-1 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| | S10-2 | SPECIAL EL | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| S-11 | S11-1 | M3-3<br>G27-2 (680) (CA)<br>G30A (CA) | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S11-2 | M3-3<br>G27-2 (680) (CA)<br>G30A (CA) | | | | | | | | | | 1 | | | | | | | | | | | |
| | S11-3 | SR50-2 Mod (CA) | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S11-4 | W4-1 | 7 | | | 15.0′ | | | 1 | | | | | | | | | | | | | | |
| | S11-5 | W4-1 | | | | | | | | | 1 | | | | | | | | | | | 129 | |
| | S11-6 | R89 (2 Cars) (CA)<br>R10-6 (Rt) | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S11-7 | R89 (2 Cars) (CA)<br>R10-6 (Rt) | | | | | | | | | | 1 | | | | | | | | | | | |
| | S11-8 | R5-10c | 7 | 11.5′ | | | | | 1 | | | | | | | | | | | | | | |
| | S11-9 | R5-1<br>R5-1a | 2 | | 11.0′ | | | | 1 | | | | | | | | | | | | | | |
| | S11-10 | R5-1<br>R5-1a | | | | | | | | | 1 | | | | | | | | | | | 103 | |
| | S11-11 | R1-1<br>R6-1 (Lt)<br>R6-1 (Rt) | 7 | | | 14.5′ | | | 1 | | | | | | | | | | | | | | INSTALL R6-1 SIGNS BACK TO BACK, C=1.5′ |
| | S11-12 | R1-1 | | | | | | | | | 1 | | | | | | | | | | | 120 | |
| | S11-13 | R5-1<br>R5-1a | 2 | | 11.0′ | | | | 1 | | | | | | | | | | | | | | |
| | | | | | | | SHEET TOTAL | | 6 | 1 | 7 | 2 | 0 | 0 | 0 | 4 | 526 | 0 | 0 | 1 | 1 | 1,004 | |

(N) - NOT A SEPARATE BID ITEM
* - QUANTITIES INCLUDED IN SUMMARY OF QUANTITIES SHEETS
** - SUMMARY OF QUANTITIES INCLUDED ON SQ-22

## SIGN QUANTITIES

## SQ-2

REVISED BY: SS | DATE REVISED: 9-29-21
CALCULATED-DESIGNED BY: JOSE CORONEL/BENJAMIN DEMONBREUN | CHECKED BY: SHRUTI SHAH
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION: 09-29-21 | DATE PLOTTED => 7-MAR-2022 | TIME PLOTTED => 15:03

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 987 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

Abhijeet R. Bhoi No. 68606 Exp. 9-30-23 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

AECOM
4 N. Second Street
Suite 675
San Jose, CA 95113

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607

# ROADSIDE SIGN QUANTITIES

| SHEET No. | SIGN No. (SIGN-No.) | SIGN DESIGNATION | "C" DIM IN FEET | POST SIZE AND LENGTH (N) WOOD POST 4"x4" | 4"x6" | 6"x6" | 6"x8" | LAMINATED WOOD BOX POST, TYPE M | ROADSIDE SIGN ONE POST | ROADSIDE SIGN TWO POST | REMOVE ROADSIDE SIGN (WOOD POST) | REMOVE ROADSIDE SIGN (SSBM) | REMOVE ROADSIDE SIGN PANEL | REMOVE ROADSIDE SIGN (METAL POST) | INSTALL ROADSIDE SIGN PANEL ON EXISTING POST | INSTALL SIGN (SSBM) | METAL (BARRIER MOUNTED SIGN) | INSTALL ROADSIDE SIGN (LAMINATED WOOD BOX POST) | RELOCATE ROADSIDE SIGN | RELOCATE SIGN PANEL ** | REMOVE SIGN OVERLAY ** | TREATED WOOD WASTE * | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | EA | | EA | EA | EA | EA | EA | EA | LB | EA | EA | EA | EA | LB | |
| S-11 | S11-14 | R5-1 | | | | | | | | | 1 | | | | | | | | | | | 103 | |
| | | R5-1a | | | | | | | | | | | | | | | | | | | | | |
| | S11-15 | R1-1 | 7 | | 14.0′ | | | | 1 | | | | | | | | | | | | | | |
| | | R4-7 | | | | | | | | | | | | | | | | | | | | | |
| | | OM1-3 | | | | | | | | | | | | | | | | | | | | | |
| | S11-16 | R1-1 | | | | | | | | | 1 | | | | | | | | | | | 112 | |
| | | R4-7 | | | | | | | | | | | | | | | | | | | | | |
| | | OM1-3 | | | | | | | | | | | | | | | | | | | | | |
| | S11-17 | D13-3 | 5 | | | 12.5′ | | | 1 | | | | | | | | | | | | | | |
| | | M3-3 | | | | | | | | | | | | | | | | | | | | | |
| | | G27-2 (680) (CA) | | | | | | | | | | | | | | | | | | | | | |
| | | M6-2a (L+) | | | | | | | | | | | | | | | | | | | | | |
| | S11-18 | G92 (CA) | | | | | | | | | 1 | | | | | | | | | | | 94 | |
| | | M3-3 | | | | | | | | | | | | | | | | | | | | | |
| | | G27-2 (680) (CA) | | | | | | | | | | | | | | | | | | | | | |
| | | M6-2a (L+) | | | | | | | | | | | | | | | | | | | | | |
| | S11-19 | W1-2 (L+) | 5 | | | 16.5′ | | | 1 | | | | | | | | | | | | | | |
| | | W13-1P (30) | | | | | | | | | | | | | | | | | | | | | |
| | | R3-1 (R+) | | | | | | | | | | | | | | | | | | | | | |
| | S11-20 | W1-2 (L+) | | | | | | | | | 1 | | | | | | | | | | | 129 | |
| | | W13-1P (30) | | | | | | | | | | | | | | | | | | | | | |
| | | R3-1 (R+) | | | | | | | | | | | | | | | | | | | | | |
| | S11-21 | D13-3 | 5 | | | | | | | | | | | | | 1 | | | | | | | |
| | | M3-3 | | | | | | | | | | | | | | | | | | | | | |
| | | G27-2 (680) (CA) | | | | | | | | | | | | | | | | | | | | | |
| | S11-22 | G92 (CA) | | | | | | | | | | 1 | | | | | | | | | | | |
| | | G27-2 (680) (CA) | | | | | | | | | | | | | | | | | | | | | |
| | | M3-3 | | | | | | | | | | | | | | | | | | | | | |
| | S11-23 | D13-3 | 5 | | | 12.5′ | | | 1 | | | | | | | | | | | | | | |
| | | M3-3 | | | | | | | | | | | | | | | | | | | | | |
| | | G27-2 (680) (CA) | | | | | | | | | | | | | | | | | | | | | |
| | | M6-2a (R+) | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | SHEET TOTAL | | 4 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 438 | |

(N) - NOT A SEPARATE BID ITEM
* - QUANTITIES INCLUDED IN SUMMARY OF QUANTITIES SHEETS
** - SUMMARY OF QUANTITIES INCLUDED ON SQ-22

## SIGN QUANTITIES
## SQ-3

REVISED BY: SS | DATE REVISED: 9-29-21
CALCULATED-DESIGNED BY: JOSE CORONEL/ BENJAMIN DEMONBREUN | CHECKED BY: SHRUTI SHAH
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

O:\0030U\DRAFTING\FINAL_PS&E\04200002351od003.dgn

LAST REVISION | DATE PLOTTED => 7-MAR-2022 | TIME PLOTTED => 15:03
09-29-21

BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 04200002351od003.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 988 | 1710 |

ARBhoi
REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi — No. 68606 — Exp. 9-30-23 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

AECOM
4 N. Second Street
Suite 675
San Jose, CA 95113

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607

# ROADSIDE SIGN QUANTITIES

| SHEET No. | SIGN No. (SIGN-No.) | SIGN DESIGNATION | "C" DIM IN FEET | POST SIZE AND LENGTH (N) WOOD POST 4"x4" | WOOD POST 4"x6" | WOOD POST 6"x6" | WOOD POST 6"x8" | LAMINATED WOOD BOX POST, TYPE M | ROADSIDE SIGN ONE POST | ROADSIDE SIGN TWO POST | REMOVE ROADSIDE SIGN (WOOD POST) | REMOVE ROADSIDE SIGN (SSBM) | REMOVE ROADSIDE SIGN PANEL | REMOVE ROADSIDE SIGN (METAL POST) | INSTALL ROADSIDE SIGN PANEL ON EXISTING POST | INSTALL SIGN (SSBM) | METAL (BARRIER MOUNTED SIGN) | INSTALL ROADSIDE SIGN (LAMINATED WOOD BOX POST) | RELOCATE ROADSIDE SIGN | RELOCATE SIGN PANEL ** | REMOVE SIGN OVERLAY ** | TREATED WOOD WASTE * | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | EA | | EA | EA | EA | EA | EA | EA | LB | EA | EA | EA | EA | LB | |
| S-11 | S11-24 | G92<br>M3-3<br>M6-2a (R+) | | | | | | | | | 1 | | | | | | | | | | | 94 | |
| | S11-25 | R5-10a | 7 | | 13.0′ | | | | 1 | | | | | | | | | | | | | | |
| | S11-26 | R5-10a | | | | | | | | | 1 | | | | | | | | | | | 112 | |
| S-12 | S12-1 | W34C (15′ 6") (L+) (CA) | 7 | | 13.8′ | | | | 1 | | | | | | | | | | | | | | |
| | S12-2 | W34C (15′ 6") (L+) (CA) | | | | | | | | | 1 | | | | | | | | | | | 112 | |
| | S12-3 | D9-1a Mod (CA) | 7 | | 13.0′ | | | | 1 | | | | | | | | | | | | | | |
| | S12-4 | D9-1a Mod (CA) | | | | | | | | | 1 | | | | | | | | | | | 86 | |
| | S12-5 | G84-2 (25) (CA) | 7 | | | 14.0′ | | | 1 | | | | | | | | | | | | | | |
| | S12-6 | G84-2 (25) (CA) | | | | | | | | | 1 | | | | | | | | | | | 120 | |
| | S12-7 | R86-3 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| | S12-8 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| S-13 | S13-1 | SPECIAL EL | 7 | | | | | | | | | | | | | | 101 | | | | | | |
| S-14 | S14-1 | R4-3 | | | | | | | | | | 1 | | | | | | | | | | | |
| | S14-2 | R4-3 | | | | | | | | | | 1 | | | | | | | | | | | |
| | S14-3 | R4-3 | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S14-4 | R4-3 | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S14-5 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| S-15 | S15-1 | R20-1 Mod (CA) | 7 | | | 17.6′ L+<br>22.3′ R+ | | | | 1 | | | | | | | | | | | | | |
| | S15-2 | R20-1 Mod (CA) | | | | | | | | | 1 | | | | | | | | | | | 378 | |
| | S15-3 | SPECIAL EL | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S15-4 | R86-3 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| S-16 | S16-1 | W4-1 | 7 | | | 15.0′ | | | 1 | | | | | | | | | | | | | | |
| | S16-2 | W4-1 | | | | | | | | | 1 | | | | | | | | | | | 129 | |
| | S16-3 | SR50-2 Mod (CA) | 7 | | | | | | | | | | | | | | 95 | | | | | | |
| | S16-4 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| S-17 | S17-1 | W13-2 (35) | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S17-2 | W13-2 (35) | | | | | | | | | | 1 | | | | | | | | | | | |
| | S17-3 | G84-2 (26) (CA) | 7 | | | 14.0′ | | | 1 | | | | | | | | | | | | | | |
| | S17-4 | G84-2 (26) (CA) | | | | | | | | | 1 | | | | | | | | | | | 120 | |
| | S17-5 | W3-3 | 7 | | | 15.0′ | | | 1 | | | | | | | | | | | | | | |
| | | | | | | | SHEET TOTAL | | 7 | 1 | 8 | 3 | 0 | 0 | 0 | 5 | 621 | 0 | 0 | 0 | 0 | 1,150 | |

(N) - NOT A SEPARATE BID ITEM
* - QUANTITIES INCLUDED IN SUMMARY OF QUANTITIES SHEETS
** - SUMMARY OF QUANTITIES INCLUDED ON SQ-22

## SIGN QUANTITIES

## SQ-4

REVISED BY: SS — DATE REVISED: 9-29-21
CALCULATED-DESIGNED BY: JOSE CORONEL/BENJAMIN DEMONBREUN
CHECKED BY: SHRUTI SHAH
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION — DATE PLOTTED => 7-MAR-2022 — TIME PLOTTED => 15:03

O:\0030U\DRAFTING\FINAL_PS&E\04200002350d004.dgn

BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 04200002350d004.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 989 | 1710 |

ARBhoi
REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi — No. 68606 — Exp. 9-30-23 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.


AECOM
4 N. Second Street
Suite 675
San Jose, CA 95113

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607


# ROADSIDE SIGN QUANTITIES

| SHEET No. | SIGN No. (SIGN-No.) | SIGN DESIGNATION | "C" DIM IN FEET | POST SIZE AND LENGTH (N) WOOD POST 4"x4" | 4"x6" | 6"x6" | 6"x8" | LAMINATED WOOD BOX POST, TYPE M | ROADSIDE SIGN ONE POST | ROADSIDE SIGN TWO POST | REMOVE ROADSIDE SIGN (WOOD POST) | REMOVE ROADSIDE SIGN (SSBM) | REMOVE ROADSIDE SIGN PANEL | REMOVE ROADSIDE SIGN (METAL POST) | INSTALL ROADSIDE SIGN PANEL ON EXISTING POST | INSTALL SIGN (SSBM) | METAL (BARRIER MOUNTED SIGN) | INSTALL ROADSIDE SIGN (LAMINATED WOOD BOX POST) | RELOCATE ROADSIDE SIGN | RELOCATE SIGN PANEL ** | REMOVE SIGN OVERLAY ** | TREATED WOOD WASTE * | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | EA | | EA | EA | EA | EA | EA | EA | LB | EA | EA | EA | EA | LB | |
| S-17 | S17-6 | W3-3 | | | | | | | | | 1 | | | | | | | | | | | 129 | |
| | S17-7 | R61-13 Mod (CA) | 7 | | | 14.0′ | | | 1 | | | | | | | | | | | | | | |
| | S17-8 | R61 Mod (CA) | | | | | | | | | 1 | | | | | | | | | | | 120 | |
| | S17-9 | R61-13 Mod (CA) | 7 | | | 14.0′ | | | 1 | | | | | | | | | | | | | | |
| | S17-10 | R61 Mod (CA) | | | | | | | | | 1 | | | | | | | | | | | 120 | |
| | S17-11 | R61-13 Mod (CA) | 7 | | | 14.0′ | | | 1 | | | | | | | | | | | | | | |
| | S17-12 | R61 Mod (CA) | | | | | | | | | 1 | | | | | | | | | | | 120 | |
| | S17-13 | G8-1 Mod (CA)<br>G7-1 Mod (CA)<br>I-7<br>G97A (ACE) (CA) | 7 | | | 14.5′ L†<br>14.8′ R† | | | | 1 | | | | | | | | | | | | | |
| | S17-14 | G8-1 Mod (CA)<br>G7-1 Mod (CA)<br>I-7<br>G97A (ACE) (CA) | | | | | | | | | 1 | | | | | | | | | | | 206 | |
| | S17-15 | R5-1<br>R5-1a | 2 | | | 11.0′ | | | 1 | | | | | | | | | | | | | | |
| | S17-16 | R5-1<br>R5-1a | | | | | | | | | 1 | | | | | | | | | | | 86 | |
| | S17-17 | W34C (14′ 11") (R†) (CA) | 7 | | | 13.8′ | | | 1 | | | | | | | | | | | | | | |
| | S17-18 | W34C (14′ 11") (R†) (CA) | | | | | | | | | 1 | | | | | | | | | | | 137 | |
| | S17-19 | R5-1<br>R5-1a | 2 | | | 11.0′ | | | 1 | | | | | | | | | | | | | | |
| | S17-20 | R5-1<br>R5-1a | | | | | | | | | 1 | | | | | | | | | | | 86 | |
| | S17-21 | D13-3<br>M3-3<br>G27-2 (680) (CA)<br>M6-2a (R†) | 5 | | | 12.5′ | | | 1 | | | | | | | | | | | | | | |
| | S17-22 | G92 (CA)<br>M3-3<br>G27-2 (680) (CA)<br>M6-2a (R†) | | | | | | | | | 1 | | | | | | | | | | | 94 | |
| | S17-23 | R4-7<br>OM1-3 | 7 | | | 14.0′ | | | 1 | | | | | | | | | | | | | | |
| | | | | | | | SHEET TOTAL | | 8 | 1 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,184 | |

(N) - NOT A SEPARATE BID ITEM
* - QUANTITIES INCLUDED IN SUMMARY OF QUANTITIES SHEETS
** - SUMMARY OF QUANTITIES INCLUDED ON SQ-22

## SIGN QUANTITIES
## SQ-5

CALCULATED-DESIGNED BY: JOSE CORONEL/ BENJAMIN DEMONBREUN
CHECKED BY: SHRUTI SHAH
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI
REVISED BY: SS
DATE REVISED: 9-29-21
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

O:\0030\DRAFTING\FINAL_PS&E\04200002350d005.dgn

LAST REVISION | DATE PLOTTED => 7-MAR-2022
09-29-21 | TIME PLOTTED => 15:03

BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 04200002350d005.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 990 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi — No. 68606 — Exp. 9-30-23 — CIVIL — STATE OF CALIFORNIA

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | EA | | EA | EA | EA | EA | EA | EA | LB | EA | EA | EA | EA | LB | |
| S-17 | S17-24 | R4-7<br>OM1-3 | | | | | | | | | 1 | | | | | | | | | | | 86 | |
| | S17-25 | R10-6 (L†)<br>R5-10c<br>R6-1 (L†)<br>R6-1 (R†) | 7 | | | 15.0′ | | | 1 | | | | | | | | | | | | | | INSTALL R6-1 SIGNS BACK TO BACK, C=1.5′ |
| | S17-26 | R10-6 (L†)<br>R5-10c<br>R6-1 (L†)<br>R6-1 (R†) | | | | | | | | | 1 | | | | | | | | | | | 112 | |
| | S17-27 | R86-3 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| | S17-28 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| S-18 | S18-1 | W34C (14′ 11") (UP R†) (CA) | 7 | | | 18.3′ | | | 1 | | | | | | | | | | | | | | |
| | S18-2 | W34C (14′ 11") (UP R†) (CA) | | | | | | | | | 1 | | | | | | | | | | | 172 | |
| | S18-3 | R20-1 Mod (CA) | 7 | | | | 16.6′ L†<br>18.8′ R† | | | 1 | | | | | | | | | | | | | |
| | S18-4 | SPECIAL-1 | | | | | | | | | 1 | | | | | | | | | | | 378 | |
| | S18-5 | SPECIAL EL | 7 | | | | | | | | | | | | | | 101 | | | | | | |
| S-19 | S19-1 | E1-5P Mod<br>G86-1 Mod (CA)<br>I-7<br>G97A (ACE) (CA) | 7 | | | | 16.8′ L†<br>20.7′ R† | | | 1 | | | | | | | | | | | | | |
| | S19-2 | G86-1 Mod (CA)<br>I-7<br>G97A (ACE) (CA) | | | | | | | | | 1 | | | | | | | | | | | 429 | |
| | S19-3 | SR50-2 Mod (CA) | 7 | | | | | | | | | | | | | | 95 | | | | | | |
| | S19-4 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| S-20 | S20-1 | SPECIAL EL | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| S-21 | S21-1 | E1-5P Mod<br>G86-5 Mod (CA) | 7 | | | | | 20′ L†<br>24′ R† | | | | | | | | | | 1 | | | | | |
| | S21-2 | G86-1 Mod (CA) | | | | | | | | | 1 | | | | | | | | | | | 343 | |
| | S21-3 | R86-3 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| | S21-4 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| | | | | | | | SHEET TOTAL | | 2 | 2 | 6 | 0 | 0 | 0 | 0 | 2 | 621 | 1 | 0 | 0 | 0 | 1,519 | |

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* - QUANTITIES INCLUDED IN SUMMARY OF QUANTITIES SHEETS
** - SUMMARY OF QUANTITIES INCLUDED ON SQ-22

## SIGN QUANTITIES

## SQ-6

REVISED BY: SS | DATE REVISED: 9-29-21
JOSE CORONEL/ BENJAMIN DEMONBREUN | SHRUTI SHAH
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION: 09-29-21 | DATE PLOTTED => 7-MAR-2022 | TIME PLOTTED => 15:03

I:\0030\DRAFTING\FINAL_PS&E\0420000235od006.dgn

BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 0420000235od006.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 991 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Abhijeet R. Bhoi
No. 68606
Exp. 9-30-23
CIVIL
STATE OF CALIFORNIA

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Suite 800
Oakland, CA 94607

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | WOOD POST | | | | LAMINATED WOOD BOX POST, TYPE M | | | | | | | | | | | | | | | | |
| | | | | 4"x4" | 4"x6" | 6"x6" | 6"x8" | | ONE POST | TWO POST | | | | | | | | | | | | | | |
| | | | | | | | | | EA | | EA | EA | EA | EA | EA | EA | LB | EA | EA | EA | EA | LB | |
| S-22 | S22-1 | G87 Mod (CA) | 7 | | | | 19′ Lt 22′ Rt | | | 1 | | | | | | | | | | | | | |
| | S22-2 | G87 Mod (CA) | | | | | | | | | 1 | | | | | | | | | | | 292 | |
| S-23 | S23-1 | G5 Mod (CA) | 7 | | | 15.7′ Lt 17.6′ Rt | | | | 1 | | | | | | | | | | | | | |
| | S23-2 | G5 Mod (CA) | | | | | | | | | 1 | | | | | | | | | | | 257 | |
| | S23-3 | SPECIAL EL | 7 | | | | | | | | | | | | | | 101 | | | | | | |
| | S23-4 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| S-24 | S24-1 | R4-3 | 7 | | 15.5′ | | | | 1 | | | | | | | | | | | | | | |
| | S24-2 | R4-3 | | | | | | | | | 1 | | | | | | | | | | | 120 | |
| | S24-3 | R86-3 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| | S24-4 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| S-25 | S25-1 | M3-3<br>G27-2 (680) (CA)<br>G30A (CA) | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S25-2 | M3-3<br>G27-2 (680) (CA)<br>G30A (CA) | | | | | | | | | | 1 | | | | | | | | | | | |
| | S25-3 | SPECIAL EL | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| S-26 | S26-1 | W4-1 | 7 | | | 15.0′ | | | 1 | | | | | | | | | | | | | | |
| | S26-2 | W4-1 | | | | | | | | | 1 | | | | | | | | | | | 137 | |
| | S26-3 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| | S26-4 | R86-3 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| S-27 | S27-1 | W4-1 | 7 | | | 15.0′ | | | 1 | | | | | | | | | | | | | | |
| | S27-2 | W4-1 | | | | | | | | | 1 | | | | | | | | | | | 137 | |
| | S27-3 | R2-1 (65)<br>R48-1 (CA) | 7 | | | 15.5′ | | | 1 | | | | | | | | | | | | | | |
| | S27-4 | R2-1 (65)<br>R48-1 (CA) | | | | | | | | | 1 | | | | | | | | | | | 129 | |
| | S27-5 | S32 (CA)<br>S32-1 (CA) | 7 | | | | | | | | | | | | | | | | 1 | | | | ONE POST |
| | | | | | | | SHEET TOTAL | | 4 | 2 | 6 | 1 | 0 | 0 | 0 | 3 | 526 | 0 | 1 | 0 | 0 | 1,073 | |

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* - QUANTITIES INCLUDED IN SUMMARY OF QUANTITIES SHEETS
** - SUMMARY OF QUANTITIES INCLUDED ON SQ-22

## SIGN QUANTITIES
## SQ-7

REVISED BY: SS | DATE REVISED: 9-29-21
CALCULATED-DESIGNED BY: JOSE CORONEL/ BENJAMIN DEMONBREUN | CHECKED BY: SHRUTI SHAH
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

D:\0030\DRAFTING\FINAL_PS&E\0420000235od007.dgn

LAST REVISION | DATE PLOTTED => 7-MAR-2022 | TIME PLOTTED => 15:04
09-29-21

BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 0420000235od007.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 992 | 1710 |

ARBhoi
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ALAMEDA CTC
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | EA | | EA | EA | EA | EA | EA | EA | LB | EA | EA | EA | EA | LB | |
| S-27 | S27-6 | G84-2 (29) | 7 | | | 14.0′ | | | 1 | | | | | | | | | | | | | | |
| | S27-7 | G84-2 (29) | | | | | | | | | 1 | | | | | | | | | | | 129 | |
| | S27-8 | W13-2 (35) | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S27-9 | W13-2 (35) | | | | | | | | | | 1 | | | | | | | | | | | |
| | S27-10 | R5-1<br>R5-1a | 2 | | 11.0′ | | | | 1 | | | | | | | | | | | | | | |
| | S27-11 | R5-1<br>R5-1a | | | | | | | | | 1 | | | | | | | | | | | 86 | |
| | S27-12 | R61-19 Mod (CA) | 7 | | 13.0′ | | | | 1 | | | | | | | | | | | | | | |
| | S27-13 | R61-19 Mod (CA) | | | | | | | | | 1 | | | | | | | | | | | 120 | |
| | S27-14 | W3-3 | 7 | | | 14.0′ | | | 1 | | | | | | | | | | | | | | |
| | S27-15 | W3-3 | | | | | | | | | 1 | | | | | | | | | | | 129 | |
| | S27-16 | R86-3 Mod (CA) | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S27-17 | SR50-2 Mod (CA) | 7 | | | | | | | | | | | | | | 95 | | | | | | |
| S-28 | S28-1 | W74 (CA) | 7 | | | 17.2′ L+<br>19.4′ R+ | | | | 1 | | | | | | | | | | | | | |
| | S28-2 | W74 (CA) | | | | | | | | | 1 | | | | | | | | | | | 292 | |
| | S28-3 | R20-1 Mod (CA) | 7 | | | 17.2′ L+<br>19.8′ R+ | | | | 1 | | | | | | | | | | | | | |
| | S28-4 | R20-1 Mod (CA) | | | | | | | | | 1 | | | | | | | | | | | 275 | |
| | S28-5 | M3-3<br>G27-2 (680) (CA)<br>G30A (CA) | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S28-6 | M3-3<br>G27-2 (680) (CA)<br>G30A (CA) | | | | | | | | | | 1 | | | | | | | | | | | |
| | S28-7 | R18A (RIGHT LANE) (CA) | 7 | | | 14.0′ | | | 1 | | | | | | | | | | | | | | |
| | S28-8 | SPECIAL EL | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S28-9 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| S-29 | S29-1 | W4-1<br>W16-2aP | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S29-2 | W4-1<br>W16-2aP | | | | | | | | | | 1 | | | | | | | | | | | |
| S-30 | S30-1 | W4-1 | 7 | | | 14.0′ | | | 1 | | | | | | | | | | | | | | |
| | | | | | | | SHEET TOTAL | | 6 | 2 | 6 | 3 | 0 | 0 | 0 | 6 | 95 | 0 | 0 | 0 | 0 | 1,030 | |

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** - SUMMARY OF QUANTITIES INCLUDED ON SQ-22

## SIGN QUANTITIES

## SQ-8

| REVISED BY | DATE REVISED |
|---|---|
| SS | 9-29-21 |

JOSE CORONEL/ BENJAMIN DEMONBREUN — CALCULATED-DESIGNED BY
SHRUTI SHAH — CHECKED BY
ABHIJEET R. BHOI — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

O:\0030U\DRAFTING\FINAL_PS&E\04200002351od008.dgn

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|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 993 | 1710 |

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No. 68606
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# ROADSIDE SIGN QUANTITIES

| SHEET No. | SIGN No. (SIGN-No.) | SIGN DESIGNATION | "C" DIM IN FEET | POST SIZE AND LENGTH (N) WOOD POST 4"x4" | WOOD POST 4"x6" | WOOD POST 6"x6" | WOOD POST 6"x8" | LAMINATED WOOD BOX POST, TYPE M | ROADSIDE SIGN ONE POST | ROADSIDE SIGN TWO POST | REMOVE ROADSIDE SIGN (WOOD POST) | REMOVE ROADSIDE SIGN (SSBM) | REMOVE ROADSIDE SIGN PANEL | REMOVE ROADSIDE SIGN (METAL POST) | INSTALL ROADSIDE SIGN PANEL ON EXISTING POST | INSTALL SIGN (SSBM) | METAL (BARRIER MOUNTED SIGN) | INSTALL ROADSIDE SIGN (LAMINATED WOOD BOX POST) | RELOCATE ROADSIDE SIGN | RELOCATE SIGN PANEL ** | REMOVE SIGN OVERLAY ** | TREATED WOOD WASTE * | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | EA | | EA | EA | EA | EA | EA | EA | LB | EA | EA | EA | EA | LB | |
| S-30 | S30-2 | W4-1 | | | | | | | | | 1 | | | | | | | | | | | 137 | |
| | S30-3 | R89-1 (CA)<br>R10-6 (L†) | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S30-4 | R89-1 (CA)<br>R10-6 (L†) | | | | | | | | | | 1 | | | | | | | | | | | |
| | S30-5 | R89-1 (CA)<br>R10-6 (R†) | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S30-6 | R89-1 (CA)<br>R10-6 (R†) | | | | | | | | | | 1 | | | | | | | | | | | |
| | S30-7 | D13-3<br>M3-3<br>G27-2 (680) (CA)<br>M6-2a (L†) | 5 | | | 12.5′ | | | 1 | | | | | | | | | | | | | | |
| | S30-8 | R4-3 | | | | | | | | | | | | 1 | | | | | | | | | |
| | S30-9 | R91-1 (L†) (24 HOURS) (CA) | 7 | | 13.8′ | | | | 1 | | | | | | | | | | | | | | |
| | S30-10 | R91-1 Mod (CA) | | | | | | | | | 1 | | | | | | | | | | | 137 | |
| | S30-11 | R5-10a | 7 | | 13.0′ | | | | 1 | | | | | | | | | | | | | | |
| | S30-12 | R5-10a | | | | | | | | | 1 | | | | | | | | | | | 112 | |
| | S30-13 | W1-1 (R†)<br>W13-1P (25) | 7 | | | 16.0′ | | | 1 | | | | | | | | | | | | | | |
| | S30-14 | W1-1 (R†)<br>W13-1P (25) | | | | | | | | | 1 | | | | | | | | | | | 129 | |
| | S30-15 | D13-3<br>M3-3<br>G27-2 (680) (CA)<br>M6-2a (R†) | 5 | | | 12.5′ | | | 1 | | | | | | | | | | | | | | |
| | S30-16 | G92 (CA)<br>G27-2 (680) (CA)<br>M3-3<br>M6-2a (R†) | | | | | | | | | 1 | | | | | | | | | | | 94 | |
| | S30-17 | R4-7<br>OM1-3 | 7 | | 14.0′ | | | | 1 | | | | | | | | | | | | | | |
| | S30-18 | R4-7<br>OM1-3 | | | | | | | | | 1 | | | | | | | | | | | 77 | |
| | S30-19 | R5-1<br>R5-1a | 2 | | 11.0′ | | | | 1 | | | | | | | | | | | | | | |
| | S30-20 | R5-1<br>R5-1a | | | | | | | | | 1 | | | | | | | | | | | 146 | |
| | | | | | | | SHEET TOTAL | | 7 | 0 | 7 | 2 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 832 | |

(N) - NOT A SEPARATE BID ITEM
* - QUANTITIES INCLUDED IN SUMMARY OF QUANTITIES SHEETS
** - SUMMARY OF QUANTITIES INCLUDED ON SQ-22

## SIGN QUANTITIES

## SQ-9

REVISED BY: SS | DATE REVISED: 9-29-21
CALCULATED-DESIGNED BY: JOSE CORONEL/BENJAMIN DEMONBREUN | CHECKED BY: SHRUTI SHAH
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | Caltrans

LAST REVISION: DATE PLOTTED => 7-MAR-2022 | TIME PLOTTED => 15:04

O:\0030\DRAFTING\FINAL_PS&E\04200002351od009.dgn

BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 04200002351od009.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 994 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

Abhijeet R. Bhoi
No. 68606
Exp. 9-30-23
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

AECOM
4 N. Second Street
Suite 675
San Jose, CA 95113

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607

# ROADSIDE SIGN QUANTITIES

| SHEET No. | SIGN No. (SIGN-No.) | SIGN DESIGNATION | "C" DIM IN FEET | POST SIZE AND LENGTH (N) WOOD POST 4"x4" | WOOD POST 4"x6" | WOOD POST 6"x6" | WOOD POST 6"x8" | LAMINATED WOOD BOX POST, TYPE M | ROADSIDE SIGN ONE POST | ROADSIDE SIGN TWO POST | REMOVE ROADSIDE SIGN (WOOD POST) | REMOVE ROADSIDE SIGN (SSBM) | REMOVE ROADSIDE SIGN PANEL | REMOVE ROADSIDE SIGN (METAL POST) | INSTALL ROADSIDE SIGN PANEL ON EXISTING POST | INSTALL SIGN (SSBM) | METAL (BARRIER MOUNTED SIGN) | INSTALL ROADSIDE SIGN (LAMINATED WOOD BOX POST) | RELOCATE ROADSIDE SIGN | RELOCATE SIGN PANEL ** | REMOVE SIGN OVERLAY ** | TREATED WOOD WASTE * | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | EA | | EA | EA | EA | EA | EA | EA | LB | EA | EA | EA | EA | LB | |
| S-30 | S30-21 | R5-1<br>R5-1a<br>R6-1 (Lt)<br>R6-1 (Rt) | 1.5 | | | 13.0′ | | | 1 | | | | | | | | | | | | | | INSTALL R6-1 SIGNS BACK TO BACK, C=1.5′ |
| | S30-22 | R5-1<br>R5-1a<br>R6-1 (Lt)<br>R6-1 (Rt) | | | | | | | | | 1 | | | | | | | | | | | 146 | |
| | S30-23 | R5-10c | 7 | 11.5′ | | | | | 1 | | | | | | | | | | | | | | |
| | S30-24 | R5-10c | | | | | | | | | 1 | | | | | | | | | | | 94 | |
| | S30-25 | G8-4 (CA) | 7 | | 13.0′ | | | | 1 | | | | | | | | | | | | | | |
| | S30-26 | G8-4 (CA) | | | | | | | | | 1 | | | | | | | | | | | 116 | |
| | S30-27 | R10-12<br>R10-31P | 7 | | 13.8′ | | | | 1 | | | | | | | | | | | | | | |
| | S30-28 | R10-12<br>R10-31P | | | | | | | | | 1 | | | | | | | | | | | 120 | |
| | S30-29 | R61-7 (CA) | 7 | | 13.0′ | | | | 1 | | | | | | | | | | | | | | |
| | S30-30 | R61-7 (CA) | | | | | | | | | 1 | | | | | | | | | | | 120 | |
| | S30-31 | W3-3 | 7 | | | 15.0′ | | | 1 | | | | | | | | | | | | | | |
| | S30-32 | W3-3 | | | | | | | | | 1 | | | | | | | | | | | 129 | |
| | S30-33 | SPECIAL EL | | | | | | | | | | 1 | | | | | | | | | | | |
| | S30-34 | SPECIAL EL | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S30-35 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| | S30-36 | R86-3 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| S-31 | S31-1 | SPECIAL EL | | | | | | | | | | 1 | | | | | | | | | | | |
| | S31-2 | SPECIAL EL | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S31-3 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| | S31-4 | SR50-2 Mod (CA) | 7 | | | | | | | | | | | | | | 95 | | | | | | |
| S-32 | S32-1 | SPECIAL EL | | | | | | | | | | 1 | | | | | | | | | | | |
| | S32-2 | SPECIAL EL | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S32-3 | W13-3 (45) | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S32-4 | W13-3 (45) | | | | | | | | | | 1 | | | | | | | | | | | |
| | S32-5 | SPECIAL EL | 7 | | | | | | | | | | | | | | 101 | | | | | | |
| S-33 | S33-1 | R86-3 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| | S33-2 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| | | | | | | | SHEET TOTAL | | 6 | 0 | 6 | 4 | 0 | 0 | 0 | 4 | 727 | 0 | 0 | 0 | 0 | 725 | |

(N) - NOT A SEPARATE BID ITEM
* - QUANTITIES INCLUDED IN SUMMARY OF QUANTITIES SHEETS
** - SUMMARY OF QUANTITIES INCLUDED ON SQ-22

REVISED BY: SS
DATE REVISED: 9-29-21
CALCULATED-DESIGNED BY: JOSE CORONEL/ BENJAMIN DEMONBREUN
CHECKED BY: SHRUTI SHAH
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION: DATE PLOTTED => 7-MAR-2022
09-29-21 TIME PLOTTED => 15:04

## SIGN QUANTITIES

## SQ-10

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 995 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Abhijeet R. Bhoi
No. 68606
Exp. 9-30-23
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.


AECOM
4 N. Second Street
Suite 675
San Jose, CA 95113

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607


# ROADSIDE SIGN QUANTITIES

| SHEET No. | SIGN No. (SIGN-No.) | SIGN DESIGNATION | "C" DIM IN FEET | POST SIZE AND LENGTH (N) | | | | | ROADSIDE SIGN | | REMOVE ROADSIDE SIGN (WOOD POST) | REMOVE ROADSIDE SIGN (SSBM) | REMOVE ROADSIDE SIGN PANEL | REMOVE ROADSIDE SIGN (METAL POST) | INSTALL ROADSIDE SIGN PANEL ON EXISTING POST | INSTALL SIGN (SSBM) | METAL (BARRIER MOUNTED SIGN) | INSTALL ROADSIDE SIGN (LAMINATED WOOD BOX POST) | RELOCATE ROADSIDE SIGN | RELOCATE SIGN PANEL ** | REMOVE SIGN OVERLAY ** | TREATED WOOD WASTE * | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | WOOD POST | | | | LAMINATED WOOD BOX POST, TYPE M | | | | | | | | | | | | | | | | |
| | | | | 4"×4" | 4"×6" | 6"×6" | 6"×8" | | ONE POST | TWO POST | | | | | | | | | | | | | | |
| | | | | | | | | | EA | | EA | EA | EA | EA | EA | EA | LB | EA | EA | EA | EA | LB | |
| S-34 | S34-1 | SR61 (CA) | 7 | | | | 16.0′ | | | 1 | | | | | | | | | | | | | |
| | S34-2 | SR61 (CA) | | | | | | | | | 1 | | | | | | | | | | | 309 | |
| | S34-3 | E1-5P Mod<br>G86-5 Mod (CA) | 8 | | | | 13.7′ L†<br>15.1′ R† | | | 1 | | | | | | | | | | | | | |
| | S34-4 | G86-5 Mod (CA) | | | | | | | | | 1 | | | | | | | | | | | 378 | |
| | S34-5 | SR50-2 Mod (CA) | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S34-6 | SG49A Mod (CA) | 7 | | | | | | | | | | | | | | | | 1 | | | | TWO POST |
| S-35 | S35-1 | SPECIAL EL | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S35-2 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| S-36 | S36-1 | G20-5 Mod (CA) | 7 | | | | 15.3′ L†<br>15.5′ R† | | | 1 | | | | | | | | | | | | | |
| | S36-2 | G20-5 Mod (CA) | | | | | | | | | 1 | | | | | | | | | | | 429 | |
| | S36-3 | SR50-2 Mod (CA) | 7 | | | | | | | | | | | | | | 95 | | | | | | |
| | S36-4 | W4-1 | 7 | | | 14.0′ | | | 1 | | | | | | | | | | | | | | |
| | S36-5 | W4-1 | | | | | | | | | 1 | | | | | | | | | | | 137 | |
| | S36-6 | G77-7 Mod (CA)<br>D13-3 | 7 | | | | | 20′ L†<br>20′ R† | | | | | | | | | | 1 | | | | | |
| | S36-7 | G77-7 Mod (CA)<br>G92 (CA) | | | | | | | | | 1 | | | | | | | | | | | 446 | |
| | S36-8 | D13-3<br>M3-3<br>G27-2 (680) (CA)<br>M6-2a (L†) | 7 | | | 12.5′ | | | 1 | | | | | | | | | | | | | | |
| | S36-9 | G92 (CA)<br>M3-3<br>G27-2 (680) (CA)<br>M6-2a (L†) | | | | | | | | | 1 | | | | | | | | | | | 94 | |
| | S36-10 | R5-10a | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S36-11 | R5-10a | | | | | | | | | | 1 | | | | | | | | | | | |
| SHEET TOTAL | | | | | | | | | 2 | 3 | 6 | 1 | 0 | 0 | 0 | 3 | 202 | 1 | 1 | 0 | 0 | 1,793 | |

(N) - NOT A SEPARATE BID ITEM
* - QUANTITIES INCLUDED IN SUMMARY OF QUANTITIES SHEETS
** - SUMMARY OF QUANTITIES INCLUDED ON SQ-22

CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY | SS
DATE REVISED | 9-29-21
JOSE CORONEL/ BENJAMIN DEMONBREUN
SHRUTI SHAH
CONSULTANT FUNCTIONAL SUPERVISOR
ABHIJEET R. BHOI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

# SIGN QUANTITIES

SQ-11

LAST REVISION | DATE PLOTTED => 7-MAR-2022
09-29-21 | TIME PLOTTED => 15:04

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BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 0420000235od011.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 996 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Abhijeet R. Bhoi
No. 68606
Exp. 9-30-23
CIVIL
STATE OF CALIFORNIA

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AECOM
4 N. Second Street
Suite 675
San Jose, CA 95113

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607

# ROADSIDE SIGN QUANTITIES

| SHEET No. | SIGN No. (SIGN-No.) | SIGN DESIGNATION | "C" DIM IN FEET | POST SIZE AND LENGTH (N) | | | | | ROADSIDE SIGN | | REMOVE ROADSIDE SIGN (WOOD POST) | REMOVE ROADSIDE SIGN (SSBM) | REMOVE ROADSIDE SIGN PANEL | REMOVE ROADSIDE SIGN (METAL POST) | INSTALL ROADSIDE SIGN PANEL ON EXISTING POST | INSTALL SIGN (SSBM) | METAL (BARRIER MOUNTED SIGN) | INSTALL ROADSIDE SIGN (LAMINATED WOOD BOX POST) | RELOCATE ROADSIDE SIGN | RELOCATE SIGN PANEL ** | REMOVE SIGN OVERLAY ** | TREATED WOOD WASTE * | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | WOOD POST | | | | LAMINATED WOOD BOX POST, TYPE M | ONE POST | TWO POST | | | | | | | | | | | | | | |
| | | | | 4"x4" | 4"x6" | 6"x6" | 6"x8" | | EA | | EA | EA | EA | EA | EA | EA | LB | EA | EA | EA | EA | LB | |
| S-37 | S37-1 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| | S37-2 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| | S37-3 | R86-3 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| | S37-4 | R93-2 Mod (CA) | | | | | | | | | | | | 1 | | | | | | | | | |
| S-38 | S38-1 | R86-3 Mod (CA) | 7 | | | | | | | | | | | | | | 106 | | | | | | |
| | S38-2 | R93-2 Mod (CA) | 7 | | | | | | | | | | | | | 1 | | | | | | | |
| | S38-3 | R86-3 Mod (CA) | | | | | | | | | | | | 1 | | | | | | | | | |
| | S38-4 | R3-42c (CA) | | | | | | | | | | | 1 | | | | | | | | | | |
| | S38-5 | SPECIAL EL | 7 | | | | | | | | | | | | 1 | | | | | | | | |
| SHEET SQ-12 TOTAL | | | | | | | | | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 425 | 0 | 0 | 0 | 0 | 0 | |
| SHEET SQ-11 TOTAL | | | | | | | | | 2 | 3 | 6 | 1 | 0 | 0 | 0 | 3 | 202 | 1 | 1 | 0 | 0 | 1,793 | |
| SHEET SQ-10 TOTAL | | | | | | | | | 6 | 0 | 6 | 4 | 0 | 0 | 0 | 4 | 727 | 0 | 0 | 0 | 0 | 725 | |
| SHEET SQ-9 TOTAL | | | | | | | | | 7 | 0 | 7 | 2 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 832 | |
| SHEET SQ-8 TOTAL | | | | | | | | | 6 | 2 | 6 | 3 | 0 | 0 | 0 | 6 | 95 | 0 | 0 | 0 | 0 | 1,030 | |
| SHEET SQ-7 TOTAL | | | | | | | | | 4 | 2 | 6 | 1 | 0 | 0 | 0 | 3 | 526 | 0 | 1 | 0 | 0 | 1,073 | |
| SHEET SQ-6 TOTAL | | | | | | | | | 2 | 2 | 6 | 0 | 0 | 0 | 0 | 2 | 621 | 1 | 0 | 0 | 0 | 1,519 | |
| SHEET SQ-5 TOTAL | | | | | | | | | 8 | 1 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,184 | |
| SHEET SQ-4 TOTAL | | | | | | | | | 7 | 1 | 8 | 3 | 0 | 0 | 0 | 5 | 621 | 0 | 0 | 0 | 0 | 1,150 | |
| SHEET SQ-3 TOTAL | | | | | | | | | 4 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 438 | |
| SHEET SQ-2 TOTAL | | | | | | | | | 6 | 1 | 7 | 2 | 0 | 0 | 0 | 4 | 526 | 0 | 0 | 1 | 1 | 1,004 | |
| SHEET SQ-1 TOTAL | | | | | | | | | 7 | 1 | 9 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 4 | 1 | 0 | 1,205 | |
| GRAND TOTAL | | | | | | | | | 59 | 13 | 74 | 18 | 2 | 3 | 1 | 32 | 3,742 | 2 | 6 | 2 | 1 | 11,952 | |

(N) - NOT A SEPARATE BID ITEM
* - QUANTITIES INCLUDED IN SUMMARY OF QUANTITIES SHEETS
** - SUMMARY OF QUANTITIES INCLUDED ON SQ-22

## SIGN QUANTITIES
## SQ-12

REVISED BY: SS | DATE REVISED: 9-29-21
CALCULATED-DESIGNED BY: JOSE CORONEL/BENJAMIN DEMONBREUN
CHECKED BY: SHRUTI SHAH
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

D:\0030UDRAFTINGVFINAL_PS&E\04200002350d012.dgn

LAST REVISION: DATE PLOTTED => 7-MAR-2022 | TIME PLOTTED => 15:04

BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 0420000235od012.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 997 | 1710 |

ARBhoi
REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi — No. 68606 — Exp. 9-30-23 — CIVIL — STATE OF CALIFORNIA

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AECOM
4 N. Second Street
Suite 675
San Jose, CA 95113

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607


# ROADSIDE SIGN PANEL QUANTITIES

| SHEET No. | SIGN No. (SIGN-No.) | SIGN DESIGNATION | PANEL SIZE LxD (N) | PANEL AREA (N) | SINGLE FACED | BACKGROUND | | LEGEND | | PROTECTIVE FILM | FURNISH SINGLE SHEET ALUMINUM SIGN | | FURNISH SINGLE SHEET ALUMINUM SIGN | | FURNISH LAMINATED PANEL SIGN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SHEETING COLOR | RETROREFLECTIVE ASTM TYPE | SHEETING COLOR | RETROREFLECTIVE ASTM TYPE | PREMIUM | UNFRAMED | | FRAMED | | |
| | | | | | | | | | | | 0.063" | 0.080" | 0.063" | 0.080" | 1" - TYPE B |
| | | | INCHES | SQFT | | | | | | | SQFT | SQFT | SQFT | SQFT | SQFT |
| S-1 | S1-1 | R6-1 (Lt) | 54 x 18 | 6.75 | X | WHITE/ BLACK | XI/ PLAIN | BLACK | PLAIN | X | | 6.75 | | | |
| | | R6-1 (Rt) | 54 x 18 | 6.75 | X | WHITE/ BLACK | XI/ PLAIN | BLACK | PLAIN | X | | 6.75 | | | |
| | S1-3 | R5-1 | 36 x 36 | 9.00 | X | WHITE | XI | WHITE/ RED | XI | X | 9.00 | | | | |
| | | R5-1a | 36 x 24 | 6.00 | X | RED | XI | WHITE | XI | X | 6.00 | | | | |
| | S1-5 | R1-1 | 36 x 36 | 9.00 | X | RED | XI | WHITE | XI | X | 9.00 | | | | |
| | S1-7 | R3-1 (Rt) | 36 x 36 | 9.00 | X | WHITE | XI | RED/ BLACK | XI/ PLAIN | X | 9.00 | | | | |
| | S1-9 | R1-1 | 36 x 36 | 9.00 | X | RED | XI | WHITE | XI | X | 9.00 | | | | |
| | | R6-1 (Lt) | 54 x 18 | 6.75 | X | WHITE/ BLACK | XI/ PLAIN | BLACK | PLAIN | X | | 6.75 | | | |
| | | R6-1 (Rt) | 54 x 18 | 6.75 | X | WHITE/ BLACK | XI/ PLAIN | BLACK | PLAIN | X | | 6.75 | | | |
| | S1-11 | W3-1 | 30 x 30 | 6.25 | X | YELLOW | XI | BLACK/ RED | PLAIN/ XI | X | 6.25 | | | | |
| | S1-13 | R5-10c | 24 x 12 | 2.00 | X | WHITE | XI | BLACK | PLAIN | X | 2.00 | | | | |
| S-6 | S6-2 | E1-5P Mod | 36 x 12 | 3.00 | X | GREEN | XI | WHITE | XI | X | 3.00 | | | | |
| | | G83-1 Mod (CA) | 90 x 66 | 41.25 | X | GREEN | XI | WHITE | XI | X | | | | 41.25 | |
| | S6-5 | SPECIAL EL | 30 x 54 | 11.25 | X | GREEN/WHITE | XI | WHITE/BLACK | XI/PLAIN | X | 11.25 | | | | |
| S-7 | S7-2 | S32 (CA) | 54 x 42 | 15.75 | X | PANTONE 327C | XI | WHITE/ BLACK/ ORANGE | XI/ PLAIN | X | | 15.75 | | | |
| | | S32-1 (CA) | 15 x 18 | 1.88 | X | PANTONE 327C | XI | WHITE/ ORANGE | XI | X | 1.88 | | | | |
| | S7-5 | R86-3 Mod (CA) | 30 x 60 | 12.50 | X | GREEN/WHITE | XI | WHITE/BLACK | XI/PLAIN | X | 12.50 | | | | |
| S-8 | S8-1 | SPECIAL EL | 30 x 54 | 11.25 | X | GREEN/WHITE | XI | WHITE/BLACK | XI/PLAIN | X | 11.25 | | | | |
| S-9 | S9-1 | E1-5P Mod | 36 x 12 | 3.00 | X | GREEN | XI | WHITE | XI | X | 3.00 | | | | |
| | | G86-5 Mod (CA) | 90 x 60 | 37.50 | X | GREEN | XI | WHITE | XI | X | | | | 37.50 | |
| | S9-2 | R86-3 Mod (CA) | 30 x 60 | 12.50 | X | GREEN/WHITE | XI | WHITE/BLACK | XI/PLAIN | X | 12.50 | | | | |
| | S9-3 | R93-2 Mod (CA) | 30 x 60 | 12.50 | X | WHITE | XI | BLACK | PLAIN | X | 12.50 | | | | |
| S-10 | S10-1 | R93-2 Mod (CA) | 30 x 60 | 12.50 | X | WHITE | XI | BLACK | PLAIN | X | 12.50 | | | | |
| | S10-2 | SPECIAL EL | 30 x 54 | 11.25 | X | GREEN/WHITE | XI | WHITE/BLACK | XI/PLAIN | X | 11.25 | | | | |
| S-11 | S11-1 | M3-3 | 36 x 18 | 4.50 | X | BLUE | XI | WHITE | XI | X | 4.50 | | | | |
| | | G27-2 (680) (CA) | 36 x 36 | 9.00 | X | RED/BLUE | XI | WHITE | XI | X | 9.00 | | | | |
| | | G30A (CA) | 18 x 27 | 3.38 | X | Var | XI | Var | XI | X | 3.38 | | | | |
| | S11-3 | SR50-2 Mod (CA) | 30 x 48 | 10.00 | X | WHITE | XI | BLACK | PLAIN | X | 10.00 | | | | |
| | S11-4 | W4-1 | 48 x 48 | 16.00 | X | YELLOW | XI | BLACK | PLAIN | X | | 16.00 | | | |
| | S11-6 | R89 (2 Cars) (CA) | 36 x 9 | 2.25 | X | WHITE | XI | BLACK | PLAIN | X | 2.25 | | | | |
| | | R10-6 (Rt) | 24 x 36 | 6.00 | X | WHITE | XI | BLACK | PLAIN | X | 6.00 | | | | |
| | S11-8 | R5-10c | 24 x 12 | 2.00 | X | WHITE | XI | BLACK | PLAIN | X | 2.00 | | | | |
| | S11-9 | R5-1 | 36 x 36 | 9.00 | X | WHITE | XI | WHITE/ RED | XI | X | 9.00 | | | | |
| | | R5-1a | 36 x 24 | 6.00 | X | RED | XI | WHITE | XI | X | 6.00 | | | | |
| | | | | | | | | | | SHEET TOTAL | 194.00 | 58.75 | 0.00 | 78.75 | 0.00 |

(N) - NOT A SEPARATE BID ITEM

## SIGN QUANTITIES

## SQ-13

CALCULATED-DESIGNED BY: JOSE CORONEL/ BENJAMIN DEMONBREUN
CHECKED BY: SHRUTI SHAH
REVISED BY: SS
DATE REVISED: 9-29-21
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION: 09-29-21
DATE PLOTTED => 7-MAR-2022
TIME PLOTTED => 15:04

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 998 | 1710 |

ARBhoi
REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi — No. 68606 — Exp. 9-30-23 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

AECOM
4 N. Second Street
Suite 675
San Jose, CA 95113

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607

# ROADSIDE SIGN PANEL QUANTITIES

| SHEET No. | SIGN No. (SIGN-No.) | SIGN DESIGNATION | PANEL SIZE LxD (N) | PANEL AREA (N) | SINGLE FACED | BACKGROUND | | LEGEND | | PROTECTIVE FILM | FURNISH SINGLE SHEET ALUMINUM SIGN | | FURNISH SINGLE SHEET ALUMINUM SIGN | | FURNISH LAMINATED PANEL SIGN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SHEETING COLOR | RETROREFLECTIVE ASTM TYPE | SHEETING COLOR | RETROREFLECTIVE ASTM TYPE | PREMIUM | UNFRAMED | | FRAMED | | |
| | | | | | | | | | | | 0.063" | 0.080" | 0.063" | 0.080" | 1" - TYPE B |
| | | | INCHES | SQFT | | | | | | | SQFT | SQFT | SQFT | SQFT | SQFT |
| S-11 | S11-11 | R1-1 | 30 x 30 | 6.25 | X | RED | XI | WHITE | XI | X | 6.25 | | | | |
| | | R6-1 (Lt) | 54 x 18 | 6.75 | X | WHITE/ BLACK | XI/ PLAIN | BLACK | PLAIN | X | | 6.75 | | | |
| | | R6-1 (Rt) | 54 x 18 | 6.75 | X | WHITE/ BLACK | XI/ PLAIN | BLACK | PLAIN | X | | 6.75 | | | |
| | S11-13 | R5-1 | 36 x 36 | 9.00 | X | RED | XI | WHITE | XI | X | 9.00 | | | | |
| | | R5-1a | 36 x 24 | 6.00 | X | RED | XI | WHITE | XI | X | 6.00 | | | | |
| | S11-15 | R1-1 | 30 x 30 | 6.25 | X | RED | XI | WHITE | XI | X | 6.25 | | | | |
| | | R4-7 | 24 x 30 | 5.00 | X | WHITE | XI | BLACK | PLAIN | X | 5.00 | | | | |
| | | OM1-3 | 18 x 18 | 2.25 | X | YELLOW | XI | - | XI | X | 2.25 | | | | |
| | S11-17 | D13-3 | 48 x 30 | 10.00 | X | GREEN | XI | WHITE | XI | X | | 10.00 | | | |
| | | M3-3 | 24 x 12 | 2.00 | X | BLUE | XI | WHITE | XI | X | 2.00 | | | | |
| | | G27-2 (680) (CA) | 21 x 18 | 2.63 | X | RED/BLUE | XI | WHITE | XI | X | 2.63 | | | | |
| | | M6-2a (Lt) | 21 x 15 | 2.19 | X | BLUE | XI | WHITE | XI | X | 2.19 | | | | |
| | S11-19 | W1-2 (Lt) | 30 x 30 | 6.25 | X | YELLOW | XI | BLACK | PLAIN | X | 6.25 | | | | |
| | | W13-1P (30) | 24 x 24 | 4.00 | X | YELLOW | XI | BLACK | PLAIN | X | 4.00 | | | | |
| | | R3-1 (Rt) | 24 x 24 | 4.00 | X | WHITE | XI | RED/ BLACK | XI/ PLAIN | X | 4.00 | | | | |
| | S11-21 | D13-3 | 48 x 30 | 10.00 | X | GREEN | XI | WHITE | XI | X | | 10.00 | | | |
| | | G27-2 (680) (CA) | 21 x 18 | 2.63 | X | RED/BLUE | XI | WHITE | XI | X | 2.63 | | | | |
| | | M3-3 | 24 x 12 | 2.00 | X | BLUE | XI | WHITE | XI | X | 2.00 | | | | |
| | S11-23 | D13-3 | 48 x 30 | 10.00 | X | GREEN | XI | WHITE | XI | X | | 10.00 | | | |
| | | M3-3 | 24 x 12 | 2.00 | X | BLUE | XI | WHITE | XI | X | 2.00 | | | | |
| | | G27-2 (680) (CA) | 21 x 18 | 2.63 | X | RED/BLUE | XI | WHITE | XI | X | 2.63 | | | | |
| | | M6-2a (Rt) | 21 x 15 | 2.19 | X | BLUE | XI | WHITE | XI | X | 2.19 | | | | |
| | S11-25 | R5-10a | 30 x 36 | 7.50 | X | WHITE | XI | BLACK | PLAIN | X | 7.50 | | | | |
| S-12 | S12-1 | W34C (15'6") (CA) | 36 x 54 | 13.50 | X | YELLOW | XI | BLACK | PLAIN | X | | 13.50 | | | |
| | S12-3 | D9-1a Mod (CA) | 30 x 36 | 7.50 | X | BLUE | XI | WHITE | XI | X | 7.50 | | | | |
| | S12-5 | G84-2 (25) (CA) | 54 x 48 | 18.00 | X | GREEN | XI | WHITE | XI | X | | 18.00 | | | |
| | S12-7 | R86-3 Mod (CA) | 30 x 60 | 12.50 | X | GREEN/WHITE | XI | WHITE/BLACK | XI/PLAIN | X | 12.50 | | | | |
| | S12-8 | R93-2 Mod (CA) | 30 x 60 | 12.50 | X | WHITE | XI | BLACK | PLAIN | X | 12.50 | | | | |
| | | | | | | | | | | SHEET TOTAL | 107.25 | 75.00 | 0.00 | 0.00 | 0.00 |

(N) - NOT A SEPARATE BID ITEM

## SIGN QUANTITIES

## SQ-14

CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY: SS
DATE REVISED: 9-29-21
JOSE CORONEL/ BENJAMIN DEMONBREUN
SHRUTI SHAH
CONSULTANT FUNCTIONAL SUPERVISOR
ABHIJEET R. BHOI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

O:\0030U\DRAFTING\FINAL_PS&E\04200002350d014.dgn

DATE PLOTTED => 7-MAR-2022
TIME PLOTTED => 15:04
LAST REVISION 09-29-21

BORDER LAST REVISED 7/2/2010
USERNAME => p302438
DGN FILE => 0420000235od014.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0733
PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 999 | 1710 |

ARBhoi 9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi — No. 68606 — Exp. 9-30-23 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.


AECOM
4 N. Second Street
Suite 675
San Jose, CA 95113

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607


# ROADSIDE SIGN PANEL QUANTITIES

| SHEET No. | SIGN No. (SIGN-No.) | SIGN DESIGNATION | PANEL SIZE LxD (N) | PANEL AREA (N) | SINGLE FACED | BACKGROUND | | LEGEND | | PROTECTIVE FILM | FURNISH SINGLE SHEET ALUMINUM SIGN | | FURNISH SINGLE SHEET ALUMINUM SIGN | | FURNISH LAMINATED PANEL SIGN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SHEETING COLOR | RETROREFLECTIVE ASTM TYPE | SHEETING COLOR | RETROREFLECTIVE ASTM TYPE | PREMIUM | UNFRAMED | | FRAMED | | |
| | | | | | | | | | | | 0.063" | 0.080" | 0.063" | 0.080" | 1" - TYPE B |
| | | | INCHES | SQFT | | | | | | | SQFT | SQFT | SQFT | SQFT | SQFT |
| S-13 | S13-1 | SPECIAL EL | 30 x 54 | 11.25 | X | GREEN/WHITE | XI | WHITE/BLACK | XI/PLAIN | X | 11.25 | | | | |
| S-14 | S14-3 | R4-3 | 48 x 60 | 20.00 | X | WHITE | XI | BLACK | PLAIN | X | | 20.00 | | | |
| | S14-4 | R4-3 | 48 x 60 | 20.00 | X | WHITE | XI | BLACK | PLAIN | X | | 20.00 | | | |
| | S14-5 | R93-2 Mod (CA) | 30 x 60 | 12.50 | X | WHITE | XI | BLACK | PLAIN | X | 12.50 | | | | |
| S-15 | S15-1 | R20-1 Mod (CA) | 102 x 48 | 34.00 | X | WHITE | XI | BLACK | PLAIN | X | | | | 34.00 | |
| | S15-3 | SPECIAL EL | 30 x 54 | 11.25 | X | GREEN/WHITE | XI | WHITE/BLACK | XI/PLAIN | X | 11.25 | | | | |
| | S15-4 | R86-3 Mod (CA) | 30 x 60 | 12.50 | X | GREEN/WHITE | XI | WHITE/BLACK | XI/PLAIN | X | 12.50 | | | | |
| S-16 | S16-1 | W4-1 | 48 x 48 | 16.00 | X | YELLOW | XI | BLACK | PLAIN | X | | 16.00 | | | |
| | S16-3 | SR50-2 Mod (CA) | 30 x 48 | 10.00 | X | WHITE | XI | BLACK | PLAIN | X | 10.00 | | | | |
| | S16-4 | R93-2 Mod (CA) | 30 x 60 | 12.50 | X | WHITE | XI | BLACK | PLAIN | X | 12.50 | | | | |
| S-17 | S17-1 | W13-2 (35) | 36 x 48 | 12.00 | X | YELLOW | XI | BLACK | XI | X | 12.00 | | | | |
| | S17-3 | G84-2 (26) (CA) | 54 x 48 | 18.00 | X | GREEN | XI | WHITE | XI | X | | 18.00 | | | |
| | S17-5 | W3-3 | 48 x 48 | 16.00 | X | YELLOW | XI | BLACK | PLAIN | X | | 16.00 | | | |
| | S17-7 | R61-13 Mod (CA) | 72 x 48 | 24.00 | X | WHITE | XI | BLACK | PLAIN | X | | | 24.00 | | |
| | S17-9 | R61-13 Mod (CA) | 72 x 48 | 24.00 | X | WHITE | XI | BLACK | PLAIN | X | | | 24.00 | | |
| | S17-11 | R61-13 Mod (CA) | 72 x 48 | 24.00 | X | WHITE | XI | BLACK | PLAIN | X | | | 24.00 | | |
| | S17-13 | G8-1 Mod (CA) | 84 x 30 | 17.50 | X | GREEN | XI | WHITE | XI | X | | | | 17.50 | |
| | | G7-1 Mod (CA) | 54 x 18 | 6.75 | X | GREEN | XI | WHITE | XI | X | | | 6.75 | | |
| | | I-7 | 24 x 24 | 4.00 | X | GREEN | XI | WHITE | XI | X | 4.00 | | | | |
| | | G97A (ACE) (CA) | 24 x 6 | 1.00 | X | GREEN | XI | WHITE | XI | X | 1.00 | | | | |
| | S17-15 | R5-1 | 36 x 36 | 9.00 | X | WHITE | XI | WHITE/ RED | XI | X | 9.00 | | | | |
| | | R5-1a | 36 x 24 | 6.00 | X | RED | XI | WHITE | XI | X | 6.00 | | | | |
| | S17-17 | W34C (14' 11") (R+) (CA) | 36 x 54 | 13.50 | X | YELLOW | XI | BLACK | PLAIN | X | 13.50 | | | | |
| | S17-19 | R5-1 | 36 x 36 | 9.00 | X | WHITE | XI | WHITE/ RED | XI | X | 9.00 | | | | |
| | | R5-1a | 36 x 24 | 6.00 | X | RED | XI | WHITE | XI | X | 6.00 | | | | |
| | | | | | | | | | | SHEET TOTAL | 130.50 | 90.00 | 78.75 | 51.50 | 0.00 |

(N) - NOT A SEPARATE BID ITEM

## SIGN QUANTITIES

SQ-15

REVISED BY: SS | DATE REVISED: 9-29-21
CALCULATED-DESIGNED BY: JOSE CORONEL/ BENJAMIN DEMONBREUN
CHECKED BY: SHRUTI SHAH
CONSULTANT FUNCTIONAL SUPERVISOR: ABHIJEET R. BHOI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION | DATE PLOTTED => 7-MAR-2022 | TIME PLOTTED => 15:04

D:\0030\DRAFTING\FINAL_PS&E\0420000235od015.dgn

BORDER LAST REVISED 7/2/2010 | USERNAME => p302438 | DGN FILE => 0420000235od015.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0733 | PROJECT NUMBER & PHASE 04200002351

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala, CC | 680 | R11.0/R21.9, R0.0/R0.9 | 1000 | 1710 |

ARBhoi
REGISTERED CIVIL ENGINEER — 9-29-21 DATE

October 8, 2021
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Abhijeet R. Bhoi — No. 68606 — Exp. 9-30-23 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.


AECOM
4 N. Second Street
Suite 675
San Jose, CA 95113

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607


# ROADSIDE SIGN PANEL QUANTITIES

| SHEET No. | SIGN No. (SIGN-No.) | SIGN DESIGNATION | PANEL SIZE LxD (N) | PANEL AREA (N) | SINGLE FACED | BACKGROUND | | LEGEND | | PROTECTIVE FILM | FURNISH SINGLE SHEET ALUMINUM SIGN | | FURNISH SINGLE SHEET ALUMINUM SIGN | | FURNISH LAMINATED PANEL SIGN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SHEETING COLOR | RETROREFLECTIVE ASTM TYPE | SHEETING COLOR | RETROREFLECTIVE ASTM TYPE | PREMIUM | UNFRAMED | | FRAMED | | |
| | | | | | | | | | | | 0.063" | 0.080" | 0.063" | 0.080" | 1" - TYPE B |
| | | | INCHES | SQFT | | | | | | | SQFT | SQFT | SQFT | SQFT | SQFT |
| S-17 | S17-21 | D13-3 | 48 x 30 | 10.00 | X | GREEN | XI | WHITE | XI | X | | 10.00 | | | |
| | | M3-3 | 24 x 12 | 2.00 | X | BLUE | XI | WHITE | XI | X | 2.00 | | | | |
| | | G27-2 (680) (CA) | 21 x 18 | 2.63 | X | RED/BLUE | XI | WHITE | XI | X | 2.63 | | | | |
| | | M6-2a (R+) | 21 x 15 | 2.19 | X | BLUE | XI | WHITE | XI | X | 2.19 | | | | |
| | S17-23 | R4-7 | 24 x 30 | 5.00 | X | WHITE | XI | BLACK | PLAIN | X | 5.00 | | | | |
| | | OM1-3 | 18 x 18 | 2.25 | X | YELLOW | XI | - | - | X | 2.25 | | | | |
| | S17-25 | R10-6 (L+) | 24 x 36 | 6.00 | X | WHITE | XI | BLACK | PLAIN | X | 6.00 | | | | |
| | | R5-10c | 24 x 12 | 2.00 | X | WHITE | XI | BLACK | PLAIN | X | 2.00 | | | | |
| | | R6-1 (L+) | 54 x 18 | 6.75 | X | WHITE/ BLACK | XI/ PLAIN | BLACK | PLAIN | X | | 6.75 | | | |
| | | R6-1 (R+) | 54 x 18 | 6.75 | X | WHITE/ BLACK | XI/ PLAIN | BLACK | PLAIN | X | | 6.75 | | | |
| | S17-27 | R86-3 Mod (CA) | 30 x 60 | 12.50 | X | GREEN/WHITE | XI | WHITE/BLACK | XI/PLAIN | X | 12.50 | | | | |
| | S17-28 | R93-2 Mod (CA) | 30 x 60 | 12.50 | X | WHITE | XI | BLACK | PLAIN | X | 12.50 | | | | |
| S-18 | S18-1 | W34C (14' 11") (UP R+) | 36 x 54 | 13.50 | X | YELLOW | XI | BLACK | PLAIN | X | | 13.50 | | | |
| | S18-3 | R20-1 Mod (CA) | 102 x 48 | 34.00 | X | WHITE | XI | BLACK | PLAIN | X | | | | 34.00 | |
| | S18-5 | SPECIAL EL | 30 x 54 | 11.25 | X | GREEN/WHITE | XI | WHITE/BLACK | XI/PLAIN | X | 11.25 | | | | |
| S-19 | S19-1 | E1-5P Mod | 36 x 12 | 3.00 | X | GREEN | XI | WHITE | XI | X | 3.00 | | | | |
| | | G86-1 Mod (CA) | 96 x 42 | 28.00 | X | GREEN | XI | WHITE | XI | X | | | | 28.00 | |
| | | I-7 | 30 x 30 | 6.25 | X | GREEN | XI | WHITE | XI | X | 6.25 | | | | |
| | | G97A (ACE) (CA) | 30 x 8 | 1.67 | X | GREEN | XI | WHITE | XI | X | 1.67 | | | | |
| | S19-3 | SR50-2 Mod (CA) | 30 x 48 | 10.00 | X | WHITE | XI | BLACK | PLAIN | X | 10.00 | | | | |
| | S19-4 | R93-2 Mod (CA) | 30 x 60 | 12.50 | X | WHITE | XI | BLACK | PLAIN | X | 12.50 | | | | |
| S-20 | S20-1 | SPECIAL EL | 30 x 54 | 11.25 | X | GREEN/WHITE | XI | WHITE/BLACK | XI/PLAIN | X | 11.25 | | | | |
| S-21 | S21-1 | E1-5P Mod | 36 x 12 | 3.00 | X | GREEN | XI | WHITE | XI | X | 3.00 | | | | |
| | | G86-5 Mod (CA) | 90 x 60 | 37.50 | X | GREEN | XI | WHITE | XI | X | | | | 37.50 | |
| | S21-3 | R86-3 Mod (CA) | 30 x 60 | 12.50 | X | GREEN/WHITE | XI | WHITE/BLACK | XI/PLAIN | X | 12.50 | | | | |
| | S21-4 | R93-2 Mod (CA) | 30 x 60 | 12.50 | X | WHITE | XI | BLACK | PLAIN | X | 12.50 | | | | |
| S-22 | S22-1 | G87 Mod (CA) | 132 x 54 | 49.50 | X | GREEN | XI | WHITE | XI | X | | | | | 49.50 |
| S-23 | S23-1 | G5 Mod (CA) | 102 x 42 | 29.75 | X | GREEN | XI | WHITE | XI | X | | | | 29.75 | |
| | S23-3 | SPECIAL EL | 30 x 54 | 11.25 | X | GREEN/WHITE | XI | WHITE/BLACK | XI/PLAIN | X | 11.25 | | | | |
| | S23-4 | R93-2 Mod (CA) | 30 x 60 | 12.50 | X | WHITE | XI | BLACK | PLAIN | X | 12.50 | | | | |
| S-24 | S24-1 | R4-3 | 36 x 48 | 12.00 | X | WHITE | XI | BLACK | PLAIN | X | | 12.00 | | | |
| | S24-3 | R86-3 Mod (CA) | 30 x 60 | 12.50 | X | GREEN/WHITE | XI | WHITE/BLACK | XI/PLAIN | X | 12.50 | | | | |
| | S24-4 | R93-2 Mod (CA) | 30 x 60 | 12.50 | X | WHITE | XI | BLACK | PLAIN | X | 12.50 | | | | |
| | | | | | | | | | | SHEET TOTAL | 179.73 | 49.00 | 0.00 | 129.25 | 49.50 |

(N) - NOT A SEPARATE BID ITEM

CALCULATED-DESIGNED BY
CHECKED BY
JOSE CORONEL/ BENJAMIN DEMONBREUN
SHRUTI SHAH
REVISED BY
DATE REVISED
SS
9-29-21

CONSULTANT FUNCTIONAL SUPERVISOR
ABHIJEET R. BHOI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

0:\0030\DRAFTING\FINAL_PS&E\04200002350d016.dgn

## SIGN QUANTITIES

SQ-16

LAST REVISION 09-29-21
DATE PLOTTED => 7-MAR-2022
TIME PLOTTED => 15:04

BORDER LAST REVISED 7/2/2010
USERNAME => p302438
DGN FILE => 0420000235od016.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0733
PROJECT NUMBER & PHASE 04200002351