STATE OF CALIFORNIA-BUSINESS, TRANSPORTATION AND HOUSING AGENCY

PETE WILSON, Governor

DEPARTMENT OF TRANSPORTATION
ESC/OE
1727 30TH STREET, 2ND FLOOR
SACRAMENTO, CA 95816

TDD (916) 654-4014

Errata #2

TO: All holders of the July 1992 edition of the Standard Plans Book

FROM: Engineering Service Center-Office of Office Engineer

SUBJECT: Errata

DATE: September 16, 1996

The attached Revised Standard Plans (RSPs), New Standard Plans (NSPs) and Revised New Standard Plan (RNSPs) dated February 15, May 29, and August 28, 1996 contain revisions and additions to the July 1992 edition of the Standard Plans Book.

Revised Standard Plans (RSPs) are to replace the comparable sheets in the July 1992 edition of the book. New Standard Plans (NSPs) are to supplement the July 1992 edition of the book. Revised New Standard Plan (RNSPs) are to replace previously issued New Standard Plan sheets. Revised New Standard Plan (RNSPs) also supplements the July 1992 edition of the book.

The revisions or additions to the attached Revised Standard Plans (RSPs), New Standard Plans (NSPs) and Revised New Standard Plan (RNSPs) are:

RSP A24A, " Pavement Markings-Arrows", revises the configuration of the Type VI Arrow (Right Lane Drop Arrow) and includes a new details for the Bike Lane Arrow.

RSP A24C, " Pavement Markings-Symbols and Numerals", revises the details for the Bike Lane Symbol and the Handicapped Parking Symbol and includes a new detail for the Bike Loop Detector Symbol.

RSP A75B, " Concrete Barrier Type 50E", is revised to increase the thickness of the expanded polystyrene which encloses the columns to 4 inches.

RSP A77D, RSP A77E, RSP A77F, RSP A77G, RSP A78C and New Standard Plan NSP A77GA, provide for the use of new Type M breakaway end anchors for new Type 1M and Type 8M flares used with metal beam guard railing. Type M breakaway anchor assemblies replace Type A breakaway cable anchor assemblies. Type 1M and Type 8M flares replace Type 1 and Type 8 flares, respectively. In addition to the revisions on RSP A77D for the use of Type M breakaway anchor assemblies, the Type 2 flare has been deleted.

RSP A87, " Curbs, Dikes and Driveways", provides a new detail for Asphalt Concrete Dike, Type F. Type F dike is used when asphalt concrete dike is placed under metal beam guard railing.

RNSP A88, " Curb Ramp Details", provides curb ramp designs which comply with the Americans With Disabilities Act requirements and which have been approved by the Division of the State Architect. The curb ramp designs shown on RNSP A88 supersedes all prior curb ramp designs including those contained in NSP A88 dated 7-01-92 and the construction detail sheets issued by P.K. Griffin's memorandum of June 15, 1994.

NSP A90, " Accessible Parking", provides accessible parking details which comply with the Americans With Disabilities Act requirements and which have been approved by the Division of the State Architect. The accessible parking details shown on NSP A90 supersedes all prior accessible parking details including those contained in the construction detail sheets issued by P.K. Griffin's memorandum of June 15, 1994 .

RSP T2, "Temporary Crash Cushion-Sand Filled", revises the plan sheet by deleting temporary crash cushion array "TI".

NSP T5, " Temporary Terminal Section (Type K)", provides details for attaching temporary railing (Type K) to concrete barrier (Type 50). It eliminates the need for sand barrel energy attenuators at the end of temporary railing (Type K) when used in conjunction with safety-shaped concrete barriers.

In addition to the attached 8-1/2" x 11" copies of the above listed Revised Standard Plans (RSPs), New Standard Plan (NSPs) and Revised New Standard Plan (RNSPs), also attached is a list of new and revised standard plans issued subsequent to the publication of the July, 1992 Standard Plans Book and the latest revised Standard Plans List for use with the July, 1992 edition of the Standard Plans Book.

Details from many of the plans of the July 1992 Standard Plans Book and details from Revised Standard Plans, New Standard Plans and Revised New Standard Plans issued subsequent to the publication of the July 1992 edition of the Standard Plans Book are available for access by Caltrans personnel from the following location: /net/trws004/drv4/stdplans/imperial/details/.

ESC/OE JLG

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

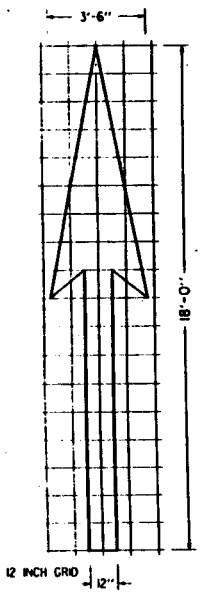
To accompany plans dated _____

REGISTERED CIVIL ENGINEER

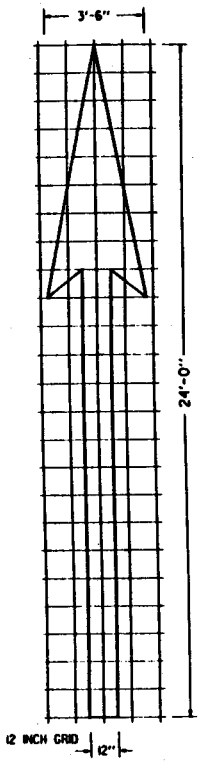
February 15, 1996
PLANS APPROVAL DATE

Richard F. Ryan
No. C41194
Exp. 12-31-96
CIVIL
STATE OF CALIFORNIA

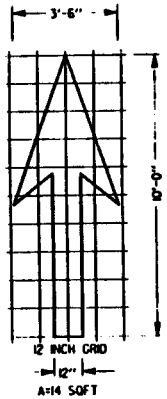
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



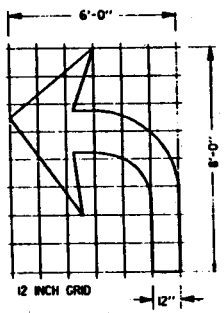
A=25 SQFT
TYPE I(18) ARROW



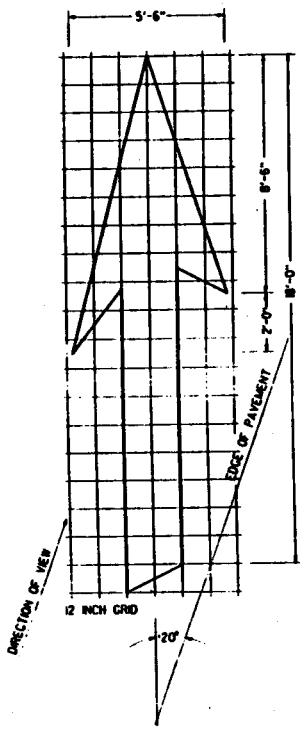
A=31 SQFT
TYPE I(24) ARROW



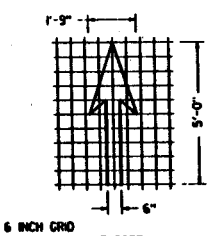
A=14 SQFT
TYPE I(10) ARROW



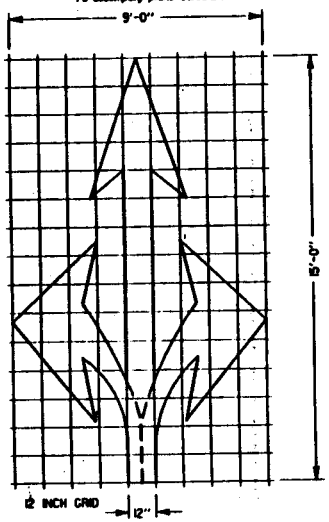
A=15 SQFT
TYPE IV (L) ARROW
(FOR TYPE IV(R) ARROW, USE MIRROR IMAGE)



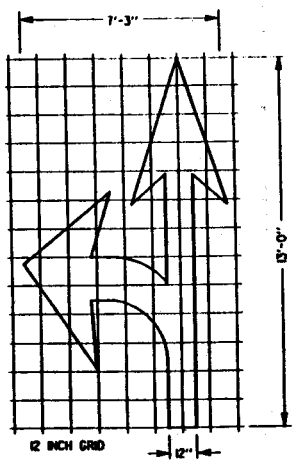
A=42 SQFT
TYPE VI ARROW
RIGHT LANE DROP ARROW
(FOR LEFT LANE, USE MIRROR IMAGE



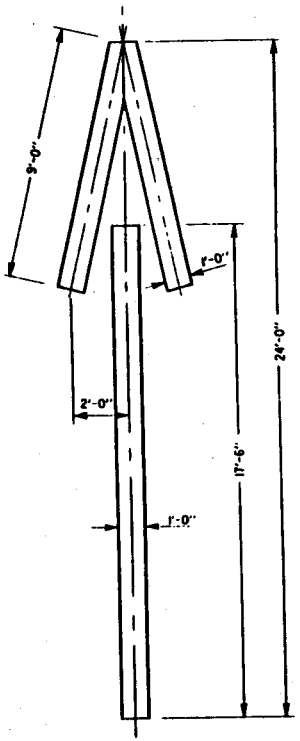
A=7 SQFT
BIKE LANE ARROW



A=36 SQFT
TYPE VIII ARROW



A=27 SQFT
TYPE VII (L) ARROW
(FOR TYPE VII (R) ARROW, USE MIRROR IMAGE)



A=33 SQFT
TYPE V ARROW

NOTE:
MINOR VARIATIONS IN DIMENSIONS MAY BE ACCEPTED BY THE ENGINEER.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
ARROWS

NO SCALE

RSP A24A DATED FEBRUARY 15, 1996 SUPERSEDES STANDARD PLAN A24A DATED JULY 1, 1992-PAGE 7 OF THE STANDARD PLANS BOOK DATED JULY 1992.

REVISED STANDARD PLAN RSP A24A

STD. PLAN RSP A24A

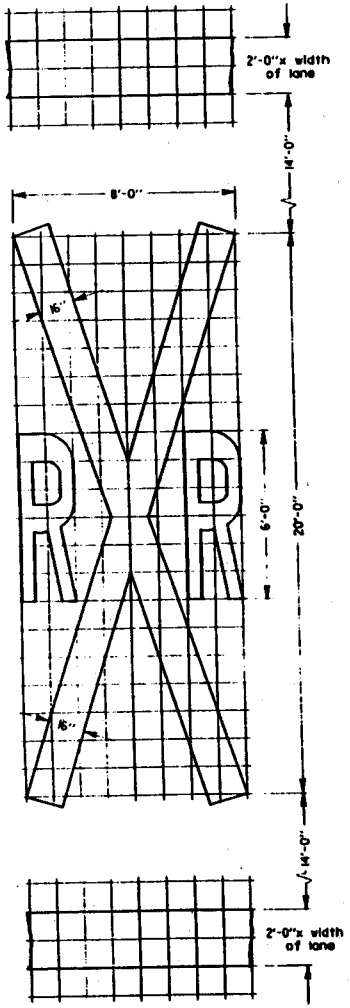
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

February 15, 1996
PLANS APPROVAL DATE

Richard F. Ryan
No. C41798
Exp. 12-31-98
CIVIL
STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER

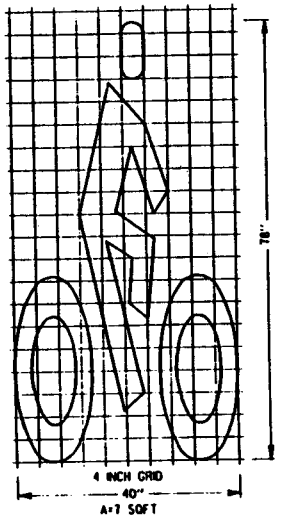
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this drawing.



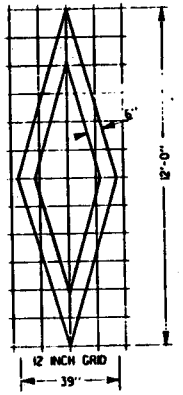
12 INCH GRID
A=70 SQFT*

RAILROAD CROSSING SYMBOL

*70 SQFT DOES NOT INCLUDE THE 2'x0"xVARIABLE WIDTH TRANSVERSE LINES.

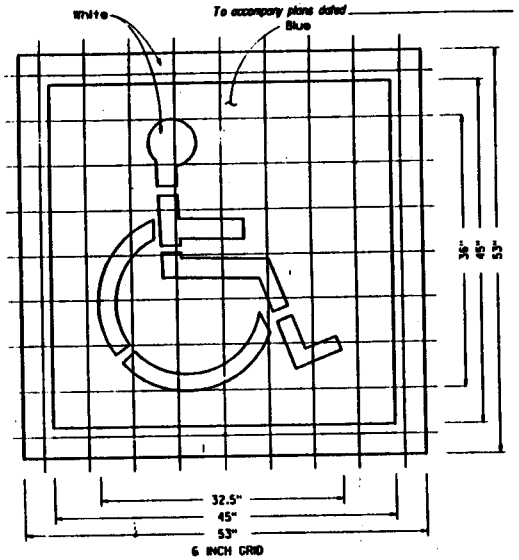


BIKE LANE SYMBOL



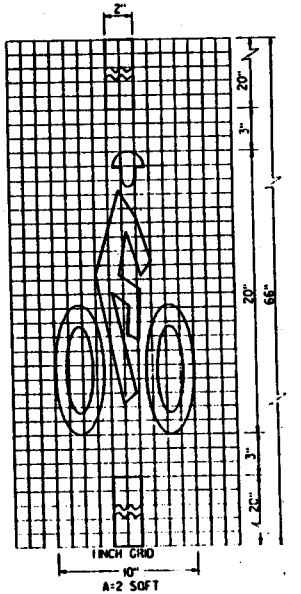
A=11 SQFT

DIAMOND SYMBOL



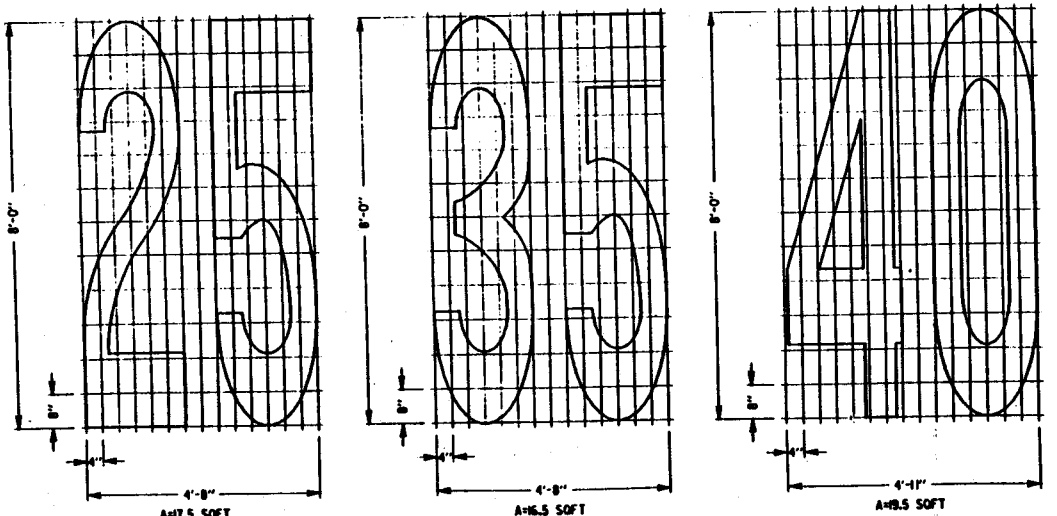
A (White) =9 SQFT A (Blue) =14 SQFT

HANDICAPPED PARKING SYMBOL



A=2 SQFT

BICYCLE LOOP DETECTOR SYMBOL



A=17.5 SQFT A=16.5 SQFT A=19.5 SQFT

NUMERALS

NOTE

MINOR VARIATIONS IN DIMENSIONS MAY BE ACCEPTED BY THE ENGINEER.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED FEBRUARY 15, 1996 SUPERSEDES STANDARD PLAN A24C DATED JULY 1, 1992-PAGE 9 OF THE STANDARD PLANS BOOK DATED JULY 1992

REVISED STANDARD PLAN RSP A24C

STD. PLAN RSP A24C

To accompany plans dated _____

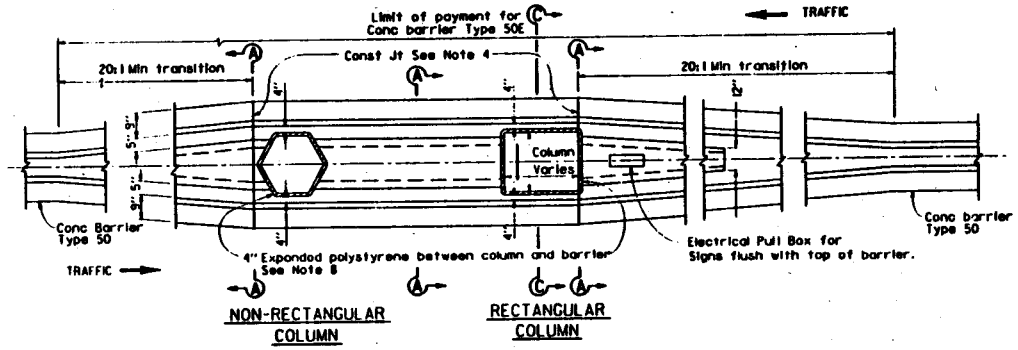
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Donald E Fogle
REGISTERED CIVIL ENGINEER

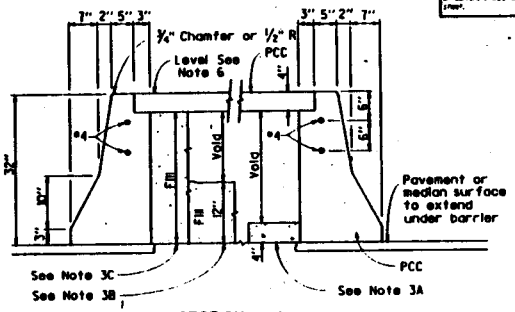
May 29, 1996
PLANS APPROVAL DATE

Donald E. Fogle No. C14637 Exp. 9-30-96 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

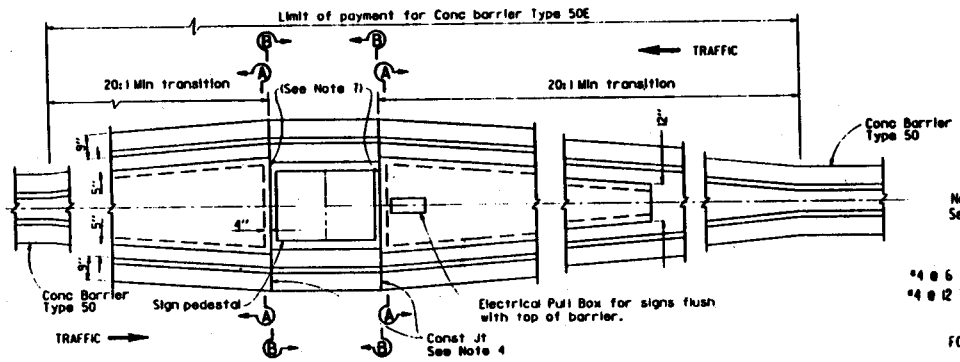
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



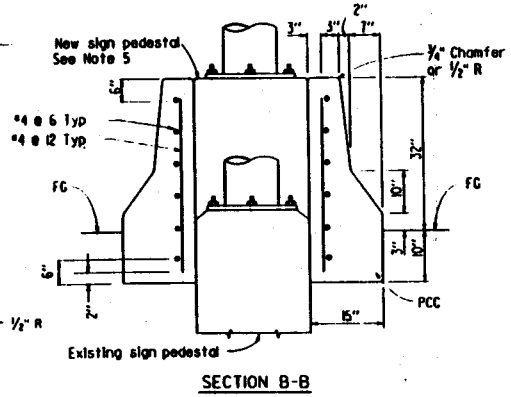
TRANSITION AT BRIDGE COLUMN
CONCRETE BARRIER TYPE 50E



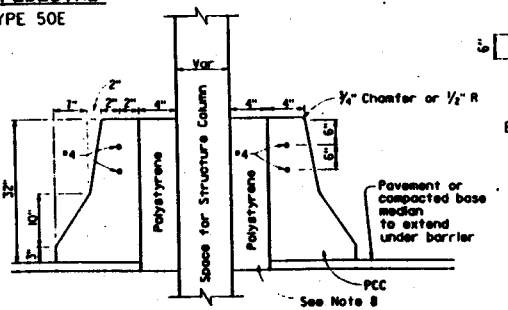
SECTION A-A



TRANSITION AT SIGN PEDESTAL
CONCRETE BARRIER TYPE 50E



SECTION B-B



SECTION C-C

NOTES

1. See Standard Plan A75A for Concrete Barrier Type 50.
2. See New Standard Plan A75D for Concrete Headlight Glare Screen Details.
3. Contractor options for fill between barrier walls:
   A. Place 4" PCC at base between barrier walls.
   B. Place 12" of granular material at base between walls.
   C. Place granular material from base to bottom of 4" cap.
   Forming material for 4" cap may remain in place.
4. Reinforcing steel shall extend continuous through construction joints.
5. See "Overhead Sign" plans for sign pedestal elevations on new construction.
6. Adjust height of barrier on low side of offset or superelevated roadways to provide level grade across top of Type 50E Barrier.
7. 4" PCC vertical walls at existing sign pedestals.
8. Enclose column with 4" expanded polystyrene at locations where concrete or cement treated base encases the column.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE BARRIER TYPE 50E
NO SCALE

RSP A75B DATED MAY 29, 1996 SUPERSEDES STANDARD PLAN A75B DATED JULY 1, 1992 - PAGE 24 OF THE STANDARD PLANS BOOK DATED JULY 1992.

REVISED STANDARD PLAN RSP A75B

STD. PLAN RSP A75B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

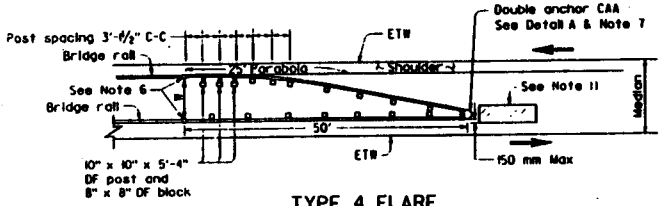
To accompany plans dated _____

Donald E. Fogle
REGISTERED CIVIL ENGINEER

February 15, 1996
PLANS APPROVAL DATE

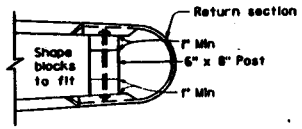
Donald E. Fogle
No. C34637
Exp. 9-30-99
CIVIL
STATE OF CALIFORNIA

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

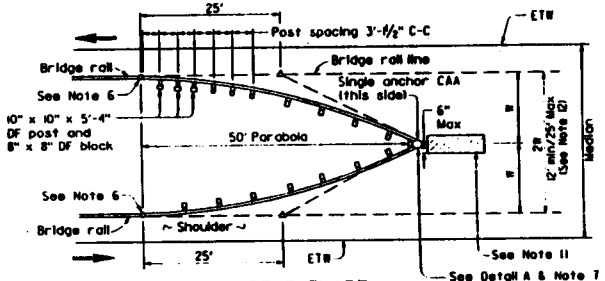


TYPE 4 FLARE

See Note 3

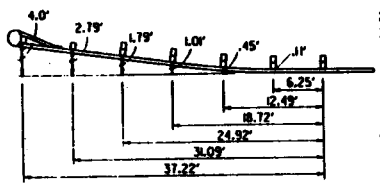


DETAIL A



TYPE 3 FLARE

See Note 3

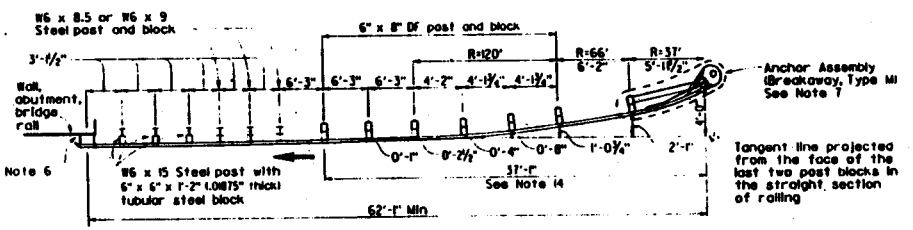


37'-6" PARABOLIC OFFSETS

(Parabolic offsets not to be used with Type IM flares)

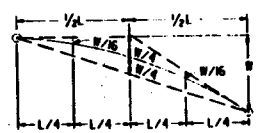
NOTES

1. Post, blocks and hardware to be used are shown on Standard Plans A77B and A77C.
2. Guard rail post spacing to be 6'-3" center to center, except as otherwise noted.
3. Except as noted, posts shown are 6" x 8" DF, W6 x 8.5 or W6 x 9 steel posts and blocks may be specified for 6" x 8" DF posts and blocks where applicable. Where 10" x 10" DF posts and 8" x 8" DF blocks are shown, W6 x 15 steel posts and tubular steel 6" x 6" x 1'-2" (0.1875 inch thick) blocks may be specified where applicable.
4. Top of rail to be 27" above ground line or shoulder surfacing under the rail element.
5. Direction of traffic indicated by ⟶
6. For connection details see Standard Plan A77J or A77K.
7. For end anchor details see Revised Standard Plan RSP A77G and Standard Plan A77I.
8. Terminal Sections not to be installed on trailing end of guard rail placed adjacent to one-way roadways.
9. The 37'-1" flared portion of Type IM Flare is used at approach end of guard railing for embankment installations.
10. For embankment widening details to accomodate approach flares, see Revised Standard Plan RSP A77F.
11. Sand filled crash cushion, as shown on Standard Plan A81, or other crash cushion approved by the Engineer is required for Type 3 and 4 flares, when the end of the guard rail is within 30 feet of the edge of traveled way (ETW) of approaching traffic.
12. When width W, exceeds 12 feet; to calculate the length of parabolic flare use "L=3W" and round to nearest 12'-6".
13. Type 2 Flare has been deleted.
14. For additional requirements for the Type IM flare installations see Revised Standard Plan RSP A77G and the Special Provisions.

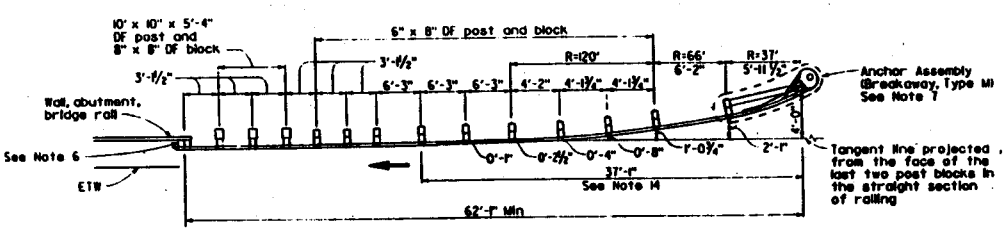


TYPE IM FLARE

(STEEL POST INSTALLATION)
See Notes 9 and 14



TYPICAL PARABOLIC LAYOUT



TYPE IM FLARE

(WOOD POST INSTALLATION)
See Notes 9 and 14

CAA = Cable Anchor Assembly

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

GUARD RAIL FLARES

NO SCALE

RSP A77D DATED FEBRUARY 15, 1996 SUPERSEDES STANDARD PLAN A77D DATED JULY 1, 1992 - PAGE 29 OF THE STANDARD PLANS BOOK DATED JULY 1992.

REVISED STANDARD PLAN RSP A77D

STD. PLAN RSP A77D

DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Donald E. Fogle
REGISTERED CIVIL ENGINEER

February 15, 1996
PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER Donald E. Fogle No. C34637 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA

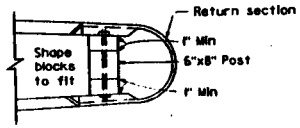
NOTES

To accompany plans dated _____

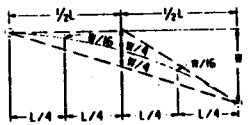
1. Post, blocks and hardware to be used are shown on Standard Plan A77B and A77C.
2. Guard rail post spacing to be 6'-3" center to center, except as noted.
3. Except as noted, posts and blocks shown are 6"x8" DF. W6x8.5 or W6x9 steel posts and blocks may be specified where applicable. Where 10"x10" DF posts and 8"x8" DF blocks are shown, W6x15 steel post and tubular steel 6"x6"x1'-2" (0.1875" thick) blocks may be specified where applicable.
4. Top of rail to be 27" above ground line or shoulder surfacing under the rail element.
5. A 4' minimum clearance is required between face of rail and a fixed object located directly behind a guard rail post. A fixed object located behind the rail but not behind a guard rail post requires a 3' minimum clearance. Where minimum clearance cannot be obtained use approach railing transition details for fixed objects.
6. Direction of traffic indicated by ⟶.
7. For connection details see Standard Plans A77J and A77K.
8. For end anchor details see Revised Standard Plan RSP A77G and Standard Plan A77I.
9. Terminal sections not to be installed on trailing end of guard rail placed adjacent to one-way roadways.
10. Type 7 flare has been deleted.
11. Sand filled crash cushion, as shown on Standard Plan A81, or other crash cushion approved by the Engineer, is required for Type 5 and 6 flares, when the end of the guard rail is within 9.0 m of the edge of traveled way (ETW) of approaching traffic.
12. When width, exceeds 12 feet; to calculate the length of parabolic flare use "L=3w" and round to nearest 12'-6".
13. For additional requirements for the Type 8M flare installations see Revised Standard Plan RSP A77G and the Special Provisions.

ABBREVIATION

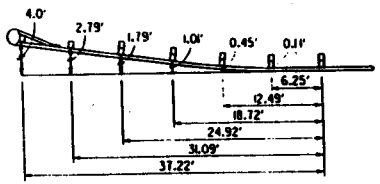
CAA = Cable Anchor Assembly



DETAIL A

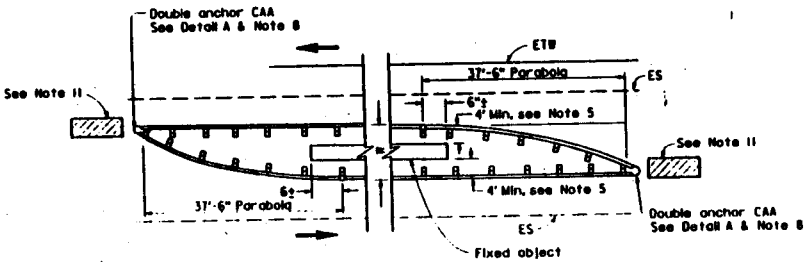


TYPICAL PARABOLIC LAYOUT

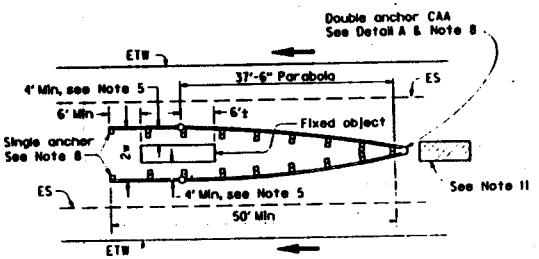


37'-6" PARABOLIC OFFSETS

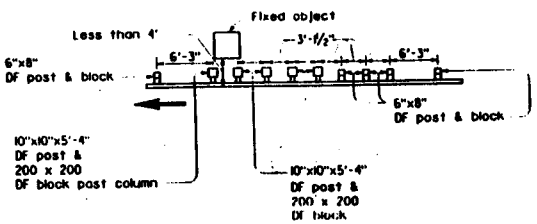
(Parabolic offsets not to be used with Type 8M flares.)



TYPE 5 FLARE

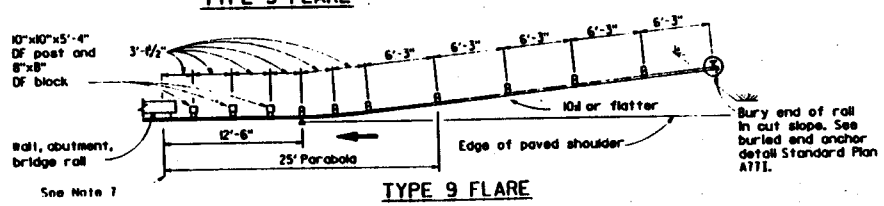


TYPE 6 FLARE

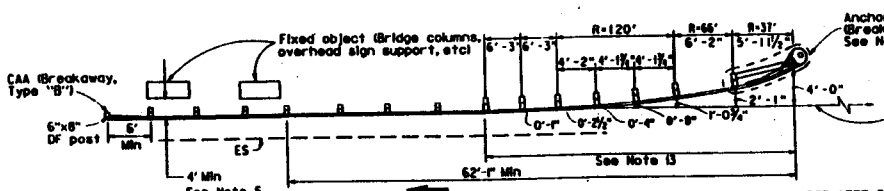


Use with Type 5, 6, and 8M flares when guard rail is less than 4' from fixed object. See Note 5. For a series of columns, additional 10"x10"x5'-4" DF post at 3'-1½" center to center spacing to be used between columns. Where 10"x10" DF posts and 8"x8" DF blocks are shown, W6x15 steel posts and tubular steel 6"x6"x1'-2" (0.1875" thick) blocks may be specified where applicable. Where 6"x8" DF posts and blocks are are shown, W6x8.5 or W6x9 steel posts and blocks may be specified where applicable.

APPROACH RAILING TRANSITION DETAIL FOR FIXED OBJECT



TYPE 9 FLARE



TYPE 8M FLARE

See Note 13

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

GUARD RAIL FLARES

NO SCALE

RSP A77E DATED FEBRUARY 15, 1996 SUPERSEDES STANDARD PLAN A77E DATED JULY 1, 1992 - PAGE 30 OF THE STANDARD PLANS BOOK DATED JULY 1992.

REVISED STANDARD PLAN RSP A77E

STD. PLAN RSP A77E

To accompany plans dated _____

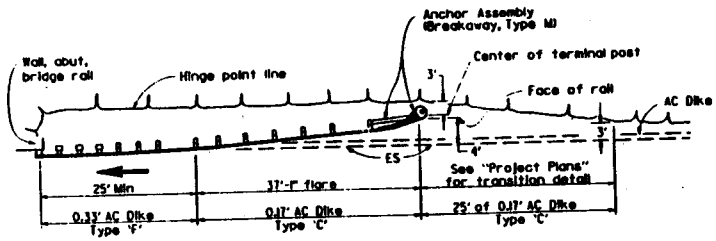
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Donald E. Fogle
REGISTERED CIVIL ENGINEER

February 15, 1996
PLANS APPROVAL DATE

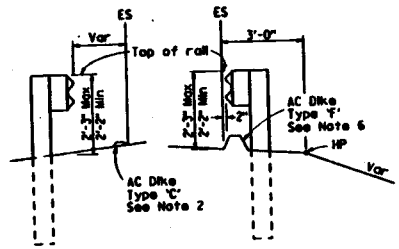
Donald E. Fogle
No. C34637
Exp. 9-30-99
CIVIL
STATE OF CALIFORNIA

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



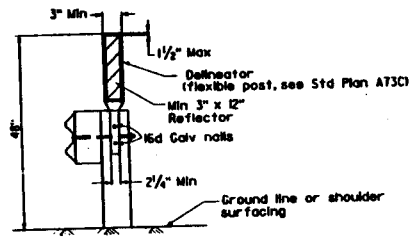
EMBANKMENT WIDENING AND DIKE PLACEMENT DIAGRAM

See Notes 1 and 2



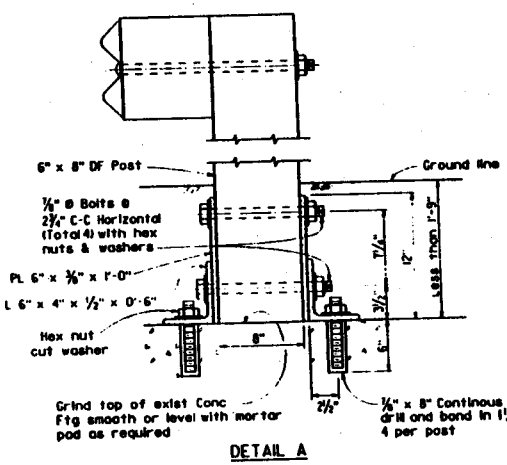
DIKE POSITIONING

(See Note 2)

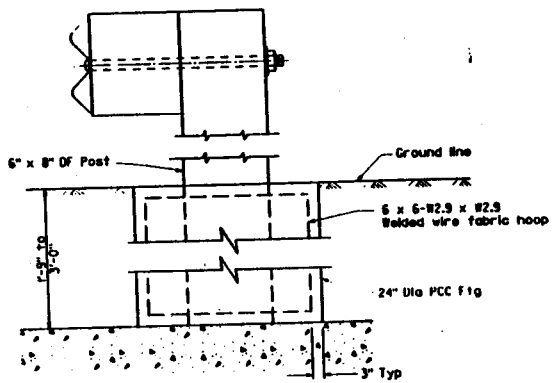


GUARD RAILING DELINEATION

See Note 4



DETAIL A



DETAIL B

Form socket in concrete to receive 6 inch x 8 inch post or place concrete around 6 inch x 8 inch post wrapped with one layer of ½" thick expanded polystyrene foam sheeting. Do not nail polystyrene to post. Post to be centered in concrete footing.

POST FOOTINGS

(See note 3)

Use where standard embedment of rolling post is restricted by underground concrete facilities such as footing of walls, columns, etc. Use Detail A where embedment of post is less than 1'-9". Use Detail B where embedment of post is between 1'-9" and 3'-0".

NOTES

1. For guard rail flare details, see Revised Standard Plans RSP A77D and RSP A77E.
2. When necessary to place dike in front of guard rail face, only Type 'C' dike may be used. For dike details, see Standard Plan A87.
3. For standard rolling post embedment, see Standard Plan A77A.
4. Guard railing delineation to be used where shown on the project plans.
5. Direction of traffic indicated by ⟶
6. When dike or curb is placed under guard railing, the maximum height of the dike or curb shallbe 0.33'. For dike and curb details, see Revised Standard Plan RSP A87.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING MISCELLANEOUS DETAILS

NO SCALE

RSP A77F DATED FEBRUARY 15, 1996 SUPERSEDES STANDARD PLAN A77F DATED JULY 1, 1992 - PAGE 31 OF THE STANDARD PLANS BOOK DATED JULY 1992.

REVISED STANDARD PLAN RSP A77F

STD. PLAN RSP A77F

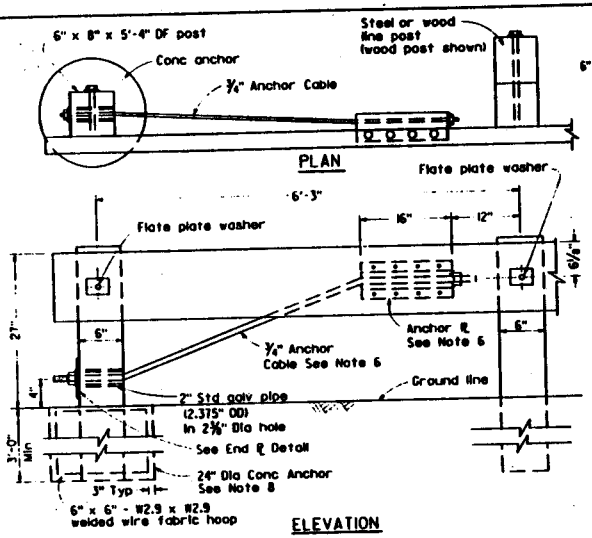
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Donald E. Fogle
REGISTERED CIVIL ENGINEER
February 15, 1996
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Donald E. Fogle No. C34637 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA

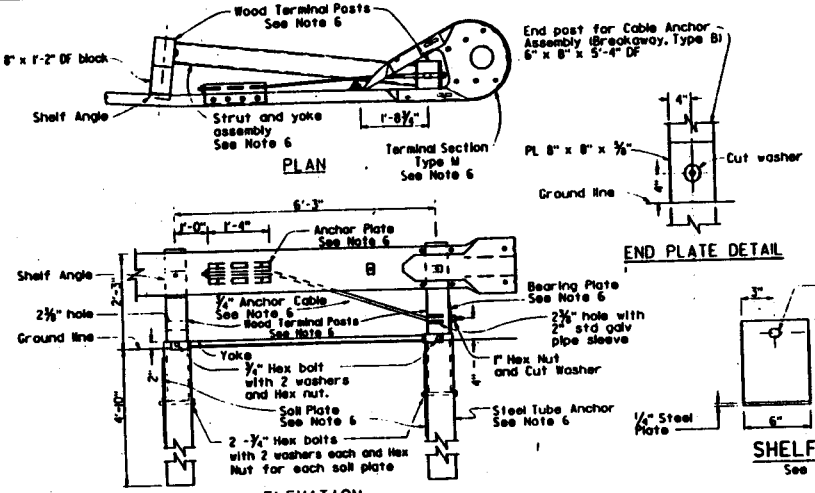
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated .....



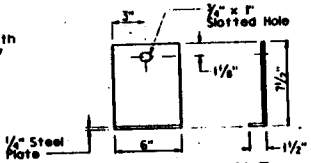
ELEVATION

CABLE ANCHOR ASSEMBLY (BREAKAWAY, TYPE B)



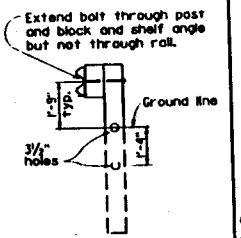
ELEVATION

ANCHORAGE ASSEMBLY (BREAKAWAY, TYPE M)



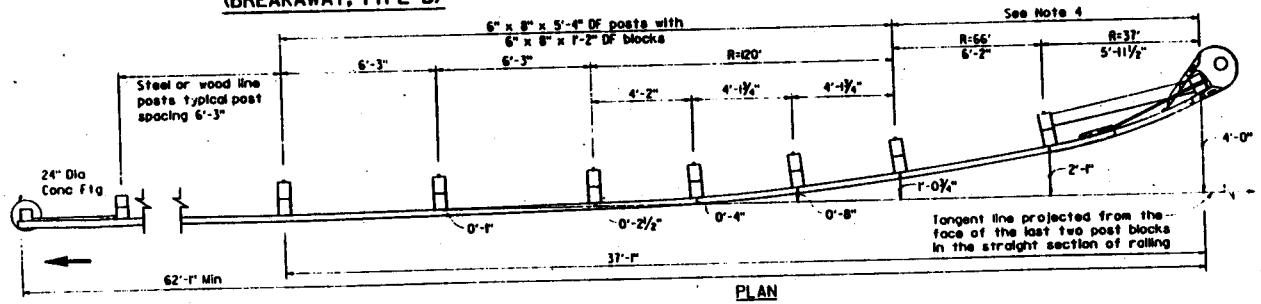
SHELF ANGLE

See Note 5



BREAKAWAY POST

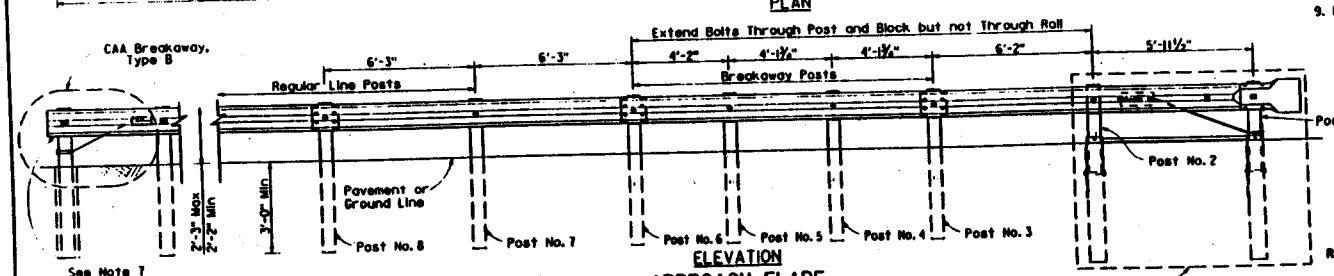
(Post Nos. 3, 4, 5 and 6)



PLAN

NOTES

1. For typical use of anchor assembly (Breakaway, Type M), see Revised Standard Plans RSP A77D and RSP A77E.
2. Cable anchor assembly (Breakaway, Type B) is typically used on the trailing end of guard railing for embankment installations except two-way road beds less than 60 feet in width.
3. Minor adjustments to post spacing and offsets may be required to fit field conditions.
4. The rail element connecting post numbers 1, 2 and 3 has a compound bend with a radius of 37 feet between post numbers 1 and 2, and a radius of 66 feet between post numbers 2 and 3. The radius changes at post number 2.
5. Shelf angles to support the rail element shall be installed on post numbers 2, 3, 4, 5 and 6, of the flare.
6. For details of the Terminal Section Type M, wood terminal posts, steel tube anchors, soil plates, bearing plates, and strut and yoke assembly, see New Standard Plan NSP A77GA. For details of the anchor plate and 3/4 inch cable, see Standard Plan A77H.
7. For trailing end of guard rail adjacent to one-way roadway omit terminal section.
8. For concrete anchor, form socket in concrete to receive 6 inch x 8 inch post or place concrete around 6 inch x 8 inch post wrapped with one layer of 1/2 inch thick expanded polystyrene foam sheeting. Do not nail polystyrene to post. Post to be centered in concrete footing.
9. Direction of traffic indicated by →



ELEVATION

APPROACH FLARE AND END ANCHORS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

GUARD RAIL END ANCHORS (BREAKAWAY)

NO SCALE

RSP A77G DATED FEBRUARY 15, 1996 SUPERSEDES STANDARD PLAN A77G DATED JULY 1, 1992 - PAGE 32 OF THE STANDARD PLANS BOOK DATED JULY 1995.

REVISED STANDARD PLAN RSP A77G

STD. PLAN RSP A77G

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

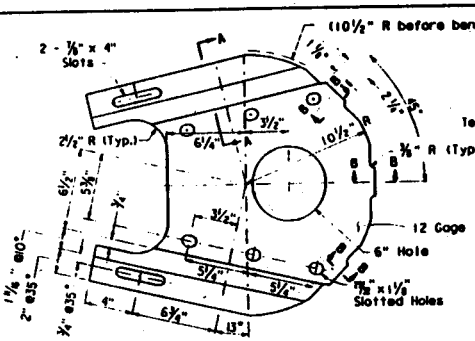
To accompany plans dated _____

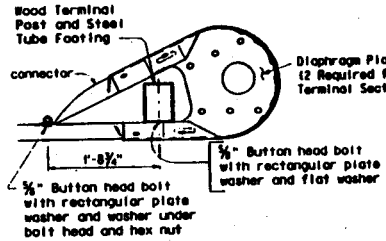
Donald E. Fogle
REGISTERED CIVIL ENGINEER

February 15, 1996
PLANS APPROVAL DATE

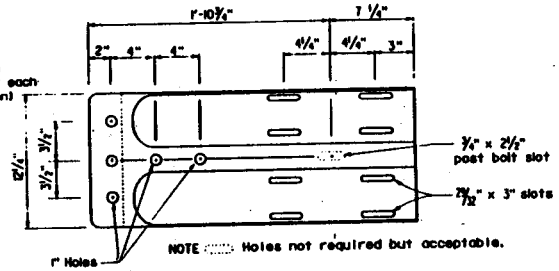
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER Donald E. Fogle No. C34637 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA

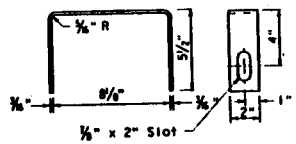




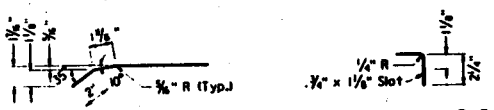
TERMINAL SECTION TYPE M
CONNECTION DETAILS



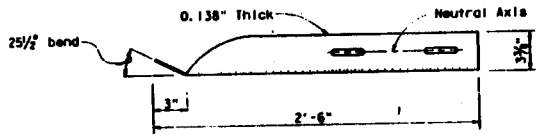
ELEVATION



YOKE DETAILS

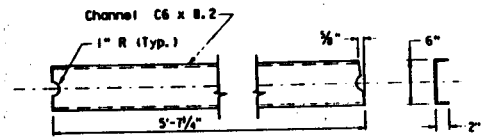


VIEW A-A
SECTION B-B
DIAPHRAGM PLATE DETAIL

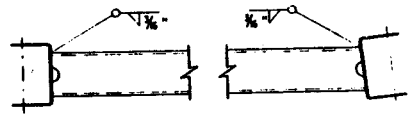


PLAN

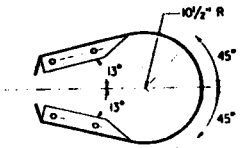
TERMINAL CONNECTOR
FOR TERMINAL SECTION TYPE M



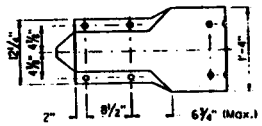
STRUT DETAILS



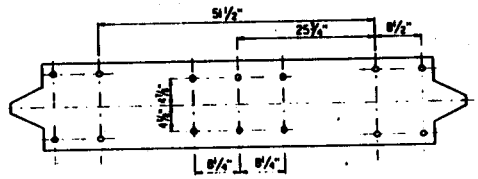
STRUT AND YOKE ASSEMBLY
See Note 2



PLAN

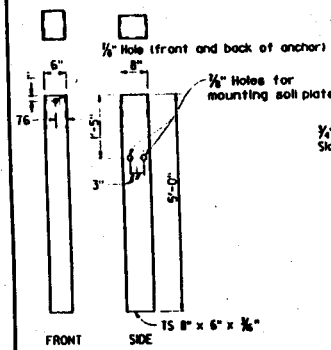


ELEVATION

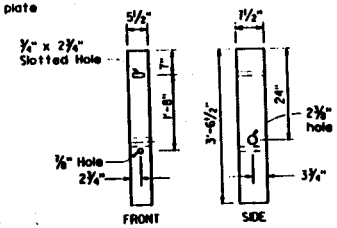


FLAT PLATE LAYOUT
All slots ⅞" x 1⅛". All bolts 5/8" button head x 13/8".

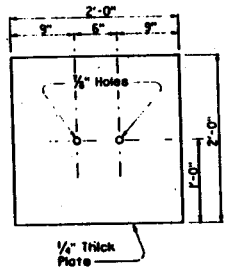
TERMINAL SECTION TYPE M



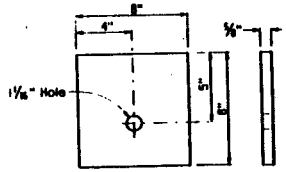
STEEL TUBE ANCHOR



WOOD TERMINAL POST



SOIL PLATE



BEARING PLATE

NOTES

1. See Revised Standard Plan RSP A77G for additional details of Anchor Assembly (Breakaway, Type M).
2. Where Anchor Assembly (Breakaway, Type M) is installed on the departure end of guard railing, turn and rotate the strut and yoke assembly to reverse the yokes with the legs of the strut pointing up instead of down.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ANCHOR ASSEMBLY (BREAKAWAY, TYPE M) HARDWARE AND POST DETAILS

NO SCALE

NSP A77GA DATED FEBRUARY 15, 1996 SUPPLEMENTS THE STANDARD PLANS BOOK DATED JULY 1992

NEW STANDARD PLAN NSP A77GA

STD. PLAN NSP A77GA

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

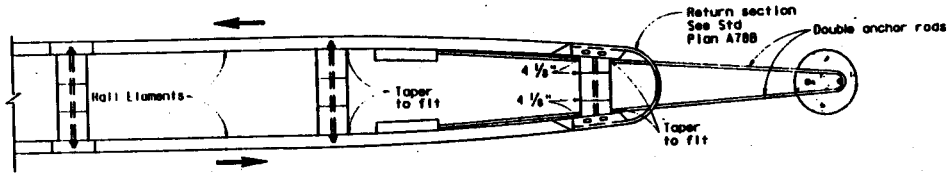
Donald E. Fogle
REGISTERED CIVIL ENGINEER

February 15, 1996
PLANS APPROVAL DATE

Donald E. Fogle
No. C34637
Exp. 9-30-99
CIVIL
STATE OF CALIFORNIA

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

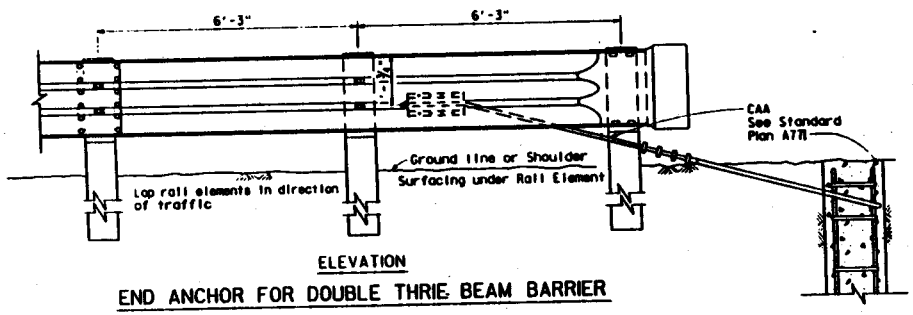
To accompany plans dated _____



PLAN

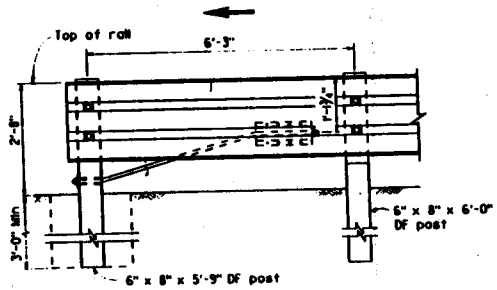
NOTES

1. For anchor details, see Cable Anchor Assembly (Breakaway, Type B) on Revised Standard Plan RSP A77G.
2. For anchor details, see Cable Anchor Assembly (Breakaway, Type M) on Revised Standard Plan RSP A77G.
3. For guard railing approach flares, see Revised Standard Plan RSP A77D.
4. For connection details to bridge, retaining walls and abutments, see Standard Plan A78E and A78F.
5. Direction of traffic indicated by ⟶

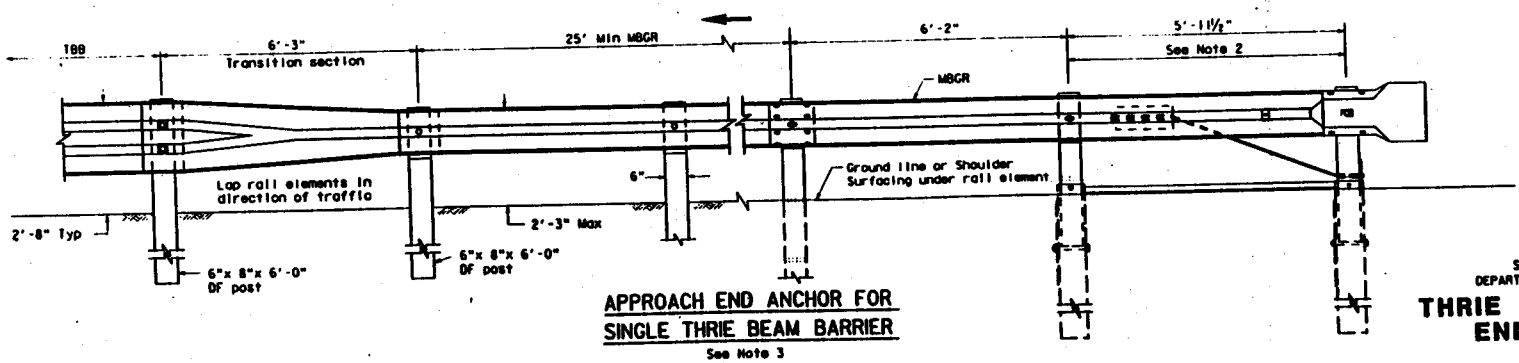


ELEVATION

END ANCHOR FOR DOUBLE THRIE BEAM BARRIER



TRAILING END ANCHOR FOR
SINGLE THRIE BEAM BARRIER
(For one-way roadways)
See Note 1



APPROACH END ANCHOR FOR
SINGLE THRIE BEAM BARRIER
See Note 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

THRIE BEAM BARRIER END ANCHORS

NO SCALE

RSP A78C DATED FEBRUARY 15, 1996 SUPERSEDES
STANDARD PLAN A78C DATED JULY 1, 1992 - PAGE 39
OF THE STANDARD PLANS BOOK DATED JULY 1992.

REVISED STANDARD PLAN RSP A78C

STD PLAN RSP A78C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

To accompany plans dated _____

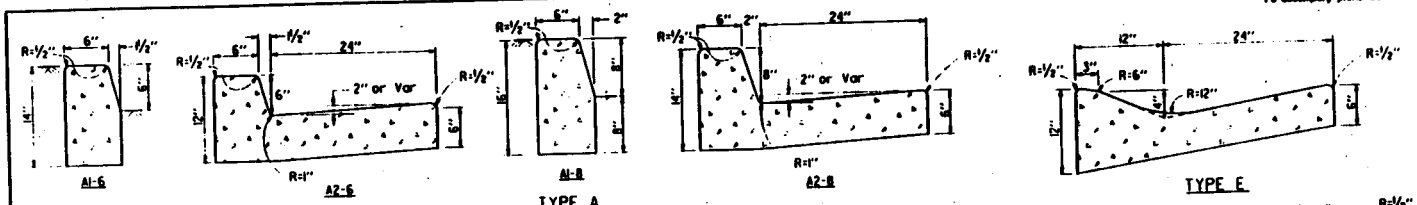
REGISTERED CIVIL ENGINEER

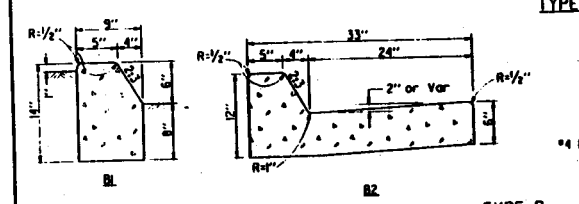
February 15, 1996

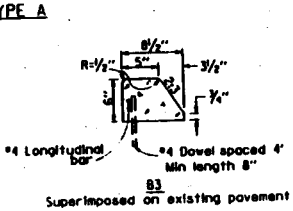
PLANS APPROVAL DATE

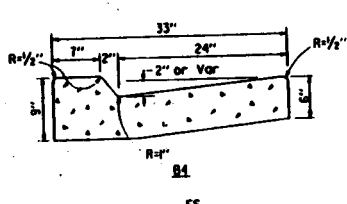
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

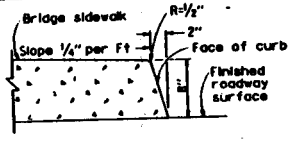
REGISTERED PROFESSIONAL ENGINEER C. DeCou No. 14547 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA











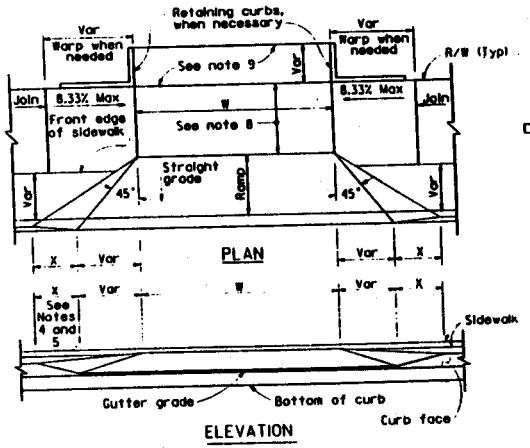
CURB QUANTITIES

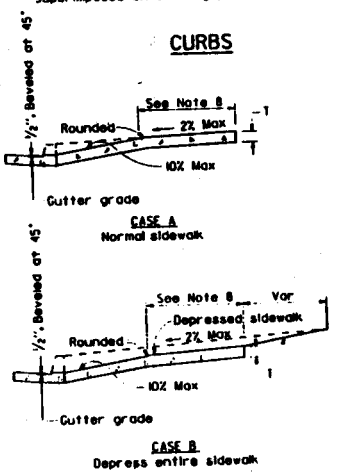
TYPE	CY PER LF
A1-6	0.02585
A2-6	0.05903
A1-8	0.03084
A2-8	0.06379
B1	0.02930
B2	0.06171
B3	0.01074
B4	0.05709
E	0.06661

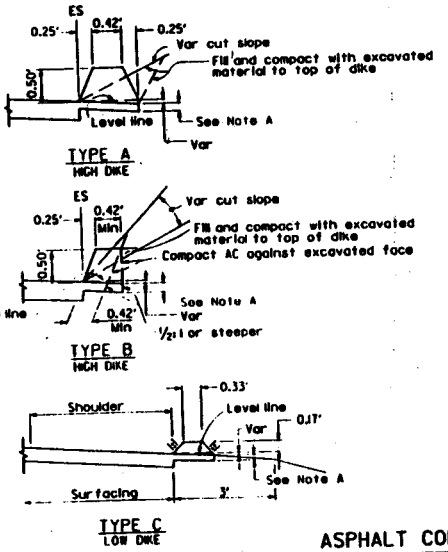
AC DIKE QUANTITIES

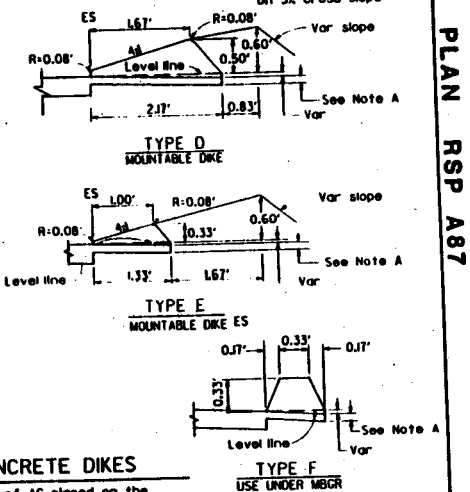
TYPE	CY PER LF
A	0.0135
B	0.0103
C	0.0038
D	0.0293
E	0.0130
F	0.0066

AC quantities based on 5% cross slope









ASPHALT CONCRETE DIKES

NOTE A - Extend top layer of AC placed on the shoulder under dike with no joint at the ES

NOTES

1. Case A normally applies.
2. Use Case B when ramp slopes would exceed 10% in Case A.
3. Use Case B when sidewalk cross slope would exceed 2% in Case A.
4. X-3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
5. X is variable when sidewalk is located where wheelchairs may traverse the surface. Slopes shall be 8.33% maximum.
6. Sidewalk and ramp thickness "T" at driveway shall be 4" for residential and 6" for commercial.
7. Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5 feet from gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.
8. Minimum width of clear passage shall be 48". Where right of way restrictions, natural barriers or other existing conditions create an unreasonable hardship, the clear width may be reduced to 36".
9. Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURBS, DIKES AND DRIVEWAYS

NO SCALE

RSP A87 DATED FEBRUARY 15, 1996 SUPERSEDES
RSP A87 DATED JUNE 13, 1994 AND
STANDARD PLAN A87 DATED JULY 1, 1992-PAGE 48
OF THE STANDARD PLANS BOOK DATED JULY, 1992

REVISED STANDARD PLAN RSP A87

STD. PLAN RSP A87

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

To accompany plans dated _____

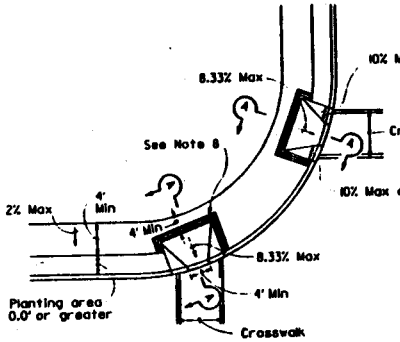
REGISTERED CIVIL ENGINEER

May 29, 1996

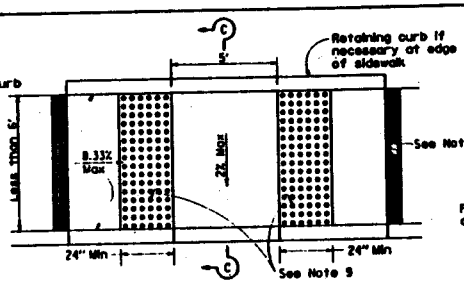
PLANS APPROVAL DATE

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

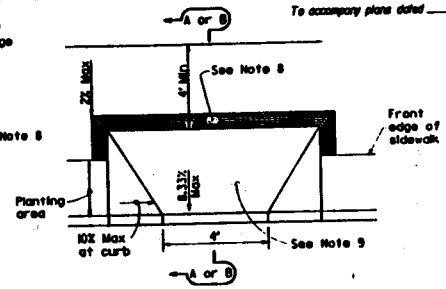
REGISTERED PROFESSIONAL ENGINEER — Alan Brenn — No. C43188 — Exp. 3-31-97 — CIVIL — STATE OF CALIFORNIA



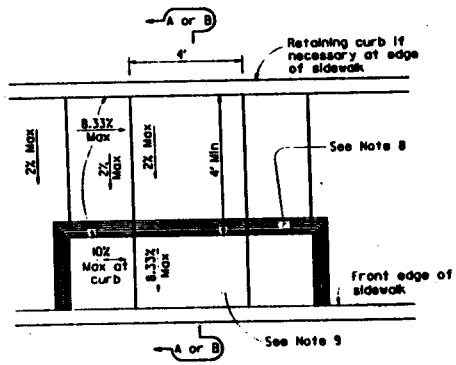
CASE A
See Note 9



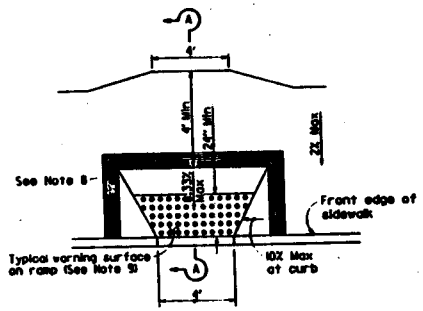
CASE C
Use when sidewalk is less than 6' wide



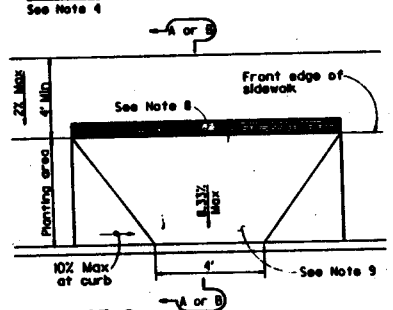
CASE F
See Note 4



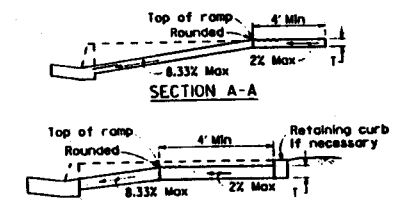
CASE B



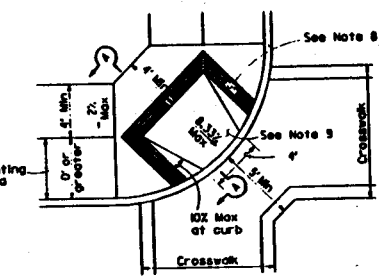
CASE D



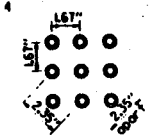
CASE G
See Note 4



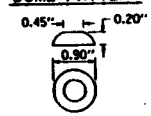
SECTION A-A



CASE E



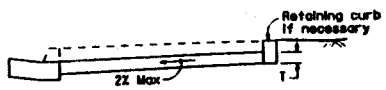
RAISED TRUNCATED DOME PATTERN



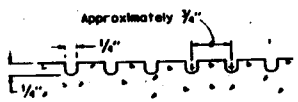
RAISED TRUNCATED DOME

DETECTABLE WARNING SURFACE
See Note 9

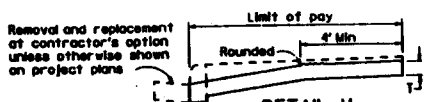
SECTION B-B
Depress entire sidewalk as required



SECTION C-C



GROOVING DETAIL



DETAIL H
Existing curb and sidewalk

NOTES

1. If distance from curb to back of sidewalk is too short to accommodate ramp and 4' platform as in Case A, the sidewalk may be depressed longitudinally as in Case B or C or may be widened as in Case D.
2. If sidewalk is less than 6' wide, the full width of the sidewalk shall be depressed as shown in Case C.
3. When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Case E to accommodate wheelchairs.
4. For Cases F and G, the longitudinal portion of the sidewalk may need to be depressed as shown in Case B.
5. If located on a curve the sides of the ramp need not be parallel, but the minimum width of the ramp shall be 4'.
6. Transitions from ramps to walks, gutters, or streets shall be flush and free of abrupt changes.
7. Sidewalk and ramp thickness, "T", shall be 3½" Min.
8. The ramp shall have a 12" wide border with ¼" grooves approximately ¾" on center. See grooving detail.
9. Curb ramps that have a ramp slope flatter than 6.67% shall have a detectable warning surface that extends the full width of the ramp and 24" minimum length, similar to that shown on Case D. Detectable warning surfaces, at the option of the Contractor, shall be constructed by cast-in-place or stamped method, or consist of a prefabricated surface. The prefabricated surface shall conform to the requirements in the special provisions.
10. When detectable warning surface is not required on a curb ramp, the concrete finish of the ramp and its flared sides shall have a transverse broomed surface texture rougher than the surrounding sidewalk.
11. Ramp side slope varies uniformly from a maximum of 10% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in the Case C.
12. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated by the owner prior to, or in conjunction with, curb ramp construction.
13. Maximum slopes of adjoining gutters, the road surface immediately adjacent to the curb ramp and continuous passage to the curb ramp shall not exceed 5 percent within 4' of the top or bottom of the curb ramp.
14. Design details approved by the Division of the State Architect on March 18, 1996.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS

NO SCALE

RNSP A88 DATED MAY 29, 1996 SUPERSEDES STANDARD PLAN NSP A88 DATED JULY 1, 1992 AND SUPPLEMENTS THE STANDARD PLANS BOOK DATED JULY 1992.

REVISED NEW STANDARD PLAN RNSP A88

STD. PLAN RNSP A88

DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

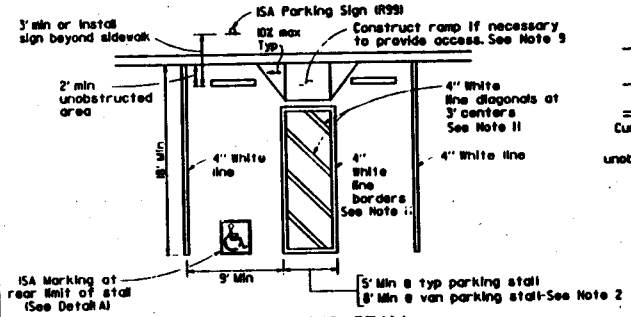
To accompany plans dated _____

REGISTERED CIVIL ENGINEER

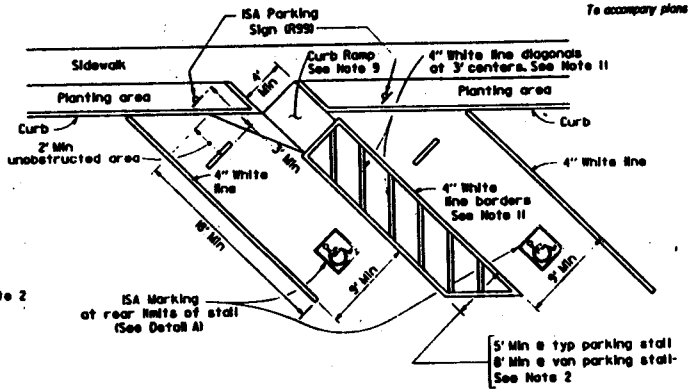
May 29, 1996
PLANS APPROVAL DATE

Alan Wrenn
No. C43388
Exp. 3-31-97
CIVIL
STATE OF CALIFORNIA

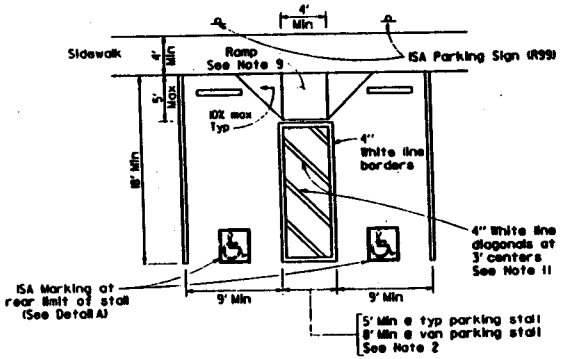
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



SINGLE PARKING STALL



DIAGONAL PARKING STALLS

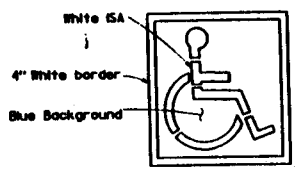


DOUBLE PARKING STALLS

TABLE A

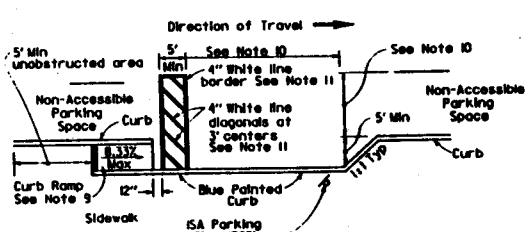
Total Number of Parking Spaces or Stalls	Minimum Number of Disabled Accessible Parking Spaces or Stalls
1-25	1
26-50	2
51-75	3
76-100	4
101-150	5
151-200	6
201-300	7
301-400	8
401-500	9
501-1000	2 percent of total
Greater than 1001	20 plus 1 for each 100 or fraction thereof over 1001

OFF-STREET PARKING
(PARKING LOT OR GARAGE)

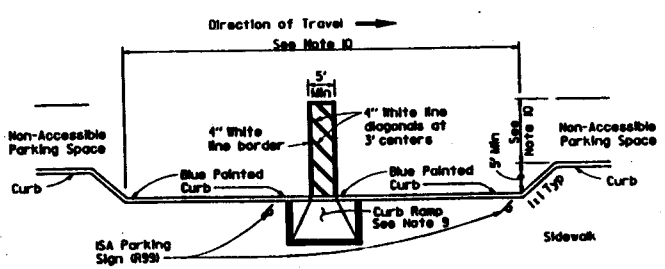


ISA MARKING FOR ACCESSIBLE PARKING SPACE OR STALL
(See Rev. Std. Plan RSP A24C)

DETAIL A



SINGLE PARKING SPACE



DOUBLE PARKING SPACE

ON-STREET PARKING
(PARALLEL PARKING)
See Note 1

ISA = International Symbol of Accessibility

NOTES

1. Accessible parking stalls shall be located as close as possible, and on the shortest accessible route of travel, to the pedestrian entrance or exit of the parking lot or garage.
2. One in every eight accessible off-street parking stalls, but not less than one, shall be served by an accessible aisle of 96 inches minimum width and shall be signed van accessible. The R99A "Van Accessible" sign shall be mounted below the R99 "ISA Parking" sign.
3. In each parking stall, a curb or bumper shall be provided and located to prevent encroachment of vehicles over the required width of walkways. Parking stalls shall be so located that persons with disabilities are not compelled to wheel or walk behind parked cars other than their own.
4. When less than five parking stalls are provided, one stall with a minimum width of 11' shall be made accessible to persons with disabilities. However, there is no requirement that the stall be reserved exclusively or identified for that purpose.
5. Surface slopes of accessible off-street parking stalls shall be the minimum possible and shall not exceed 2 percent in any direction. Surface slopes of accessible on-street parking stalls shall be the minimum feasible.
6. Table A shall be used to determine the required number of accessible parking stalls in any parking lot or garage.
7. Where new on-street or time limited parking is provided and designated in districts zoned for business use, accessible parking shall be provided in accordance with Table A.
8. Where R99 "ISA Parking" or R99A "Van Accessible" signs are installed on sidewalks or other paths of travel, the bottom of the sign panel shall be a minimum of 6'-8" above the surface of the sidewalk or path. Where R99 or R99A signs are not installed on sidewalks or other paths of travel, the bottom of the sign panel shall be at least 3' above the parking area surface.
9. Curb and sidewalk ramps shall conform to the details shown on Revised New Standard Plan RNSP A88 dated May 29, 1996 or later.
10. Accessible on-street parking spaces shall not be smaller in length or width than that specified by the local jurisdiction for other spaces.
11. Blue paint, instead of white may be used for marking accessibility aisles in areas where snow may cause white markings to not be visible.
12. Design details approved by the Division of the State Architect on March 18, 1996.

ISA PARKING SIGN (R99)
Standard 12" x 18"
See Note 8

VAN ACCESSIBLE SIGN
(R99A) Standard 12" x 8"
See Notes 2 and 8

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ACCESSIBLE PARKING

NO SCALE

NSP A90 DATED MAY 29, 1996 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED JULY 1992.

NEW STANDARD PLAN NSP A90

STD. PLAN NSP A90

To accompany plans dated _____

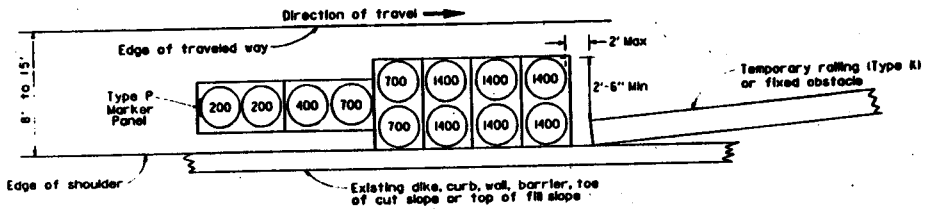
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Donald E Fogle
REGISTERED CIVIL ENGINEER

May 29, 1996
PLANS APPROVAL DATE

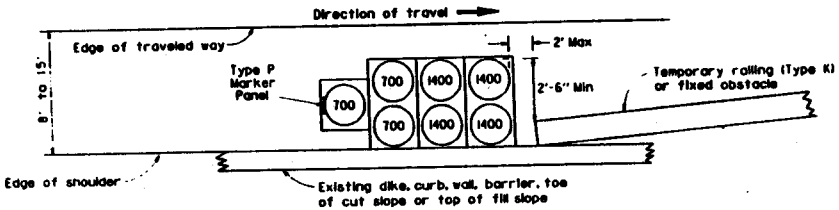
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER Donald E. Fogle No. C36637 Exp. 9-30-96 CIVIL STATE OF CALIFORNIA



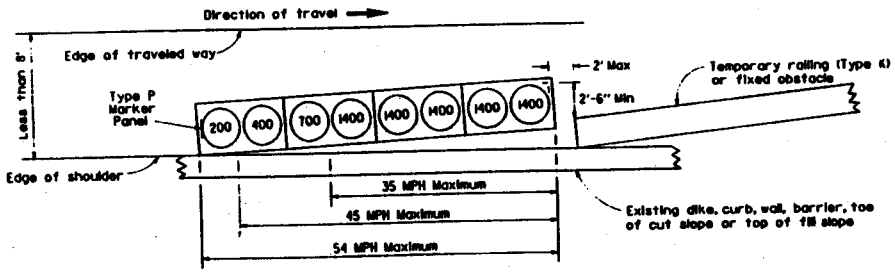
ARRAY 'TG'

(APPROACH SPEED 45 MPH OR GREATER)



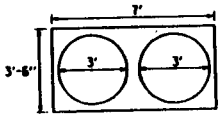
ARRAY 'TH'

(APPROACH SPEED 40 MPH OR LESS)
(FOR SPEEDS GREATER THAN 40 MPH USE ARRAY 'TG')

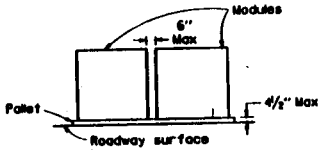


ARRAY 'TJ'

(APPROACH SPEED LESS THAN 55 MPH)



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

NOTES

1. (XXX) indicates module location and weight of sand in pounds for each module.
2. All sand weights are nominal.
3. A single row of modules similar to those shown for array 'TJ' shall be used only in locations where there will be traffic on one side of the temporary crash cushion array and for speeds less than 55 mph.
4. If the fixed obstacle or approach end of the temporary railing is less than 15 feet from the edge of traveled way, a temporary crash cushion is required.
5. Temporary crash cushion arrays shall not encroach on the traveled way.
6. Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
7. Place P marker panel so that the bottom of the panel rest upon the pallet and faces traffic.
8. Refer to Standard Plan A73B for marker details.
9. For approach speed of 55 MPH or greater and shoulder widths less than 8', appropriate crash cushion protection shall be provided at fixed obstacles and at approach ends of temporary railing. The specific type of crash cushion protection shall be as shown on the project plans or specified in the Special Provisions, or if not shown on the project plans, or specified in the Special Provisions, shall be as approved by the Engineer.
10. Array 'TI' has been deleted.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION SAND FILLED

NO SCALE

RSP T2 DATED MAY 29, 1996 SUPERSEDES STANDARD PLAN T2 DATED JULY 1, 1992 - PAGE 116 OF THE STANDARD PLANS BOOK DATED JULY 1992.

REVISED STANDARD PLAN RSP T2

STD. PLAN RSP T2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

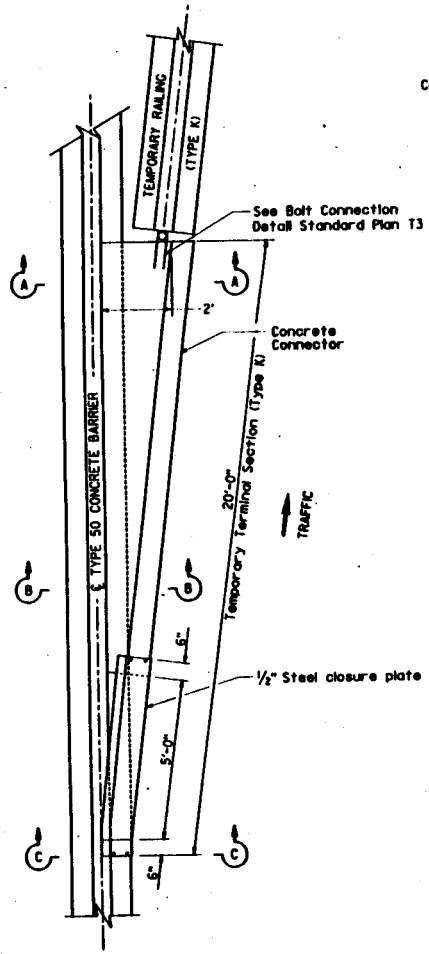
To accompany plans dated _____

Donald E Fogle
REGISTERED CIVIL ENGINEER

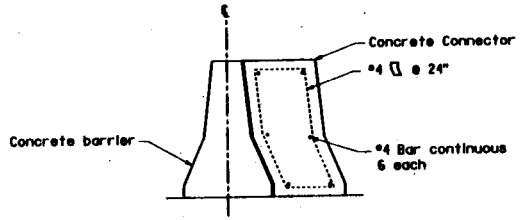
August 28, 1996
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Donald E. Fogle
No. C34637
Exp. 9-30-98
CIVIL
STATE OF CALIFORNIA

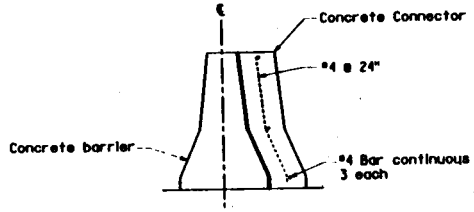
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



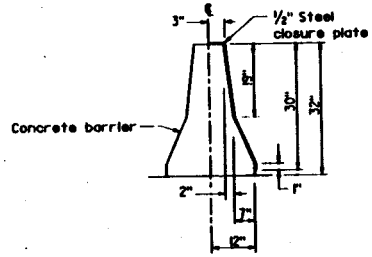
PLAN



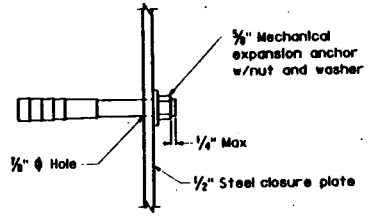
SECTION A-A



SECTION B-B



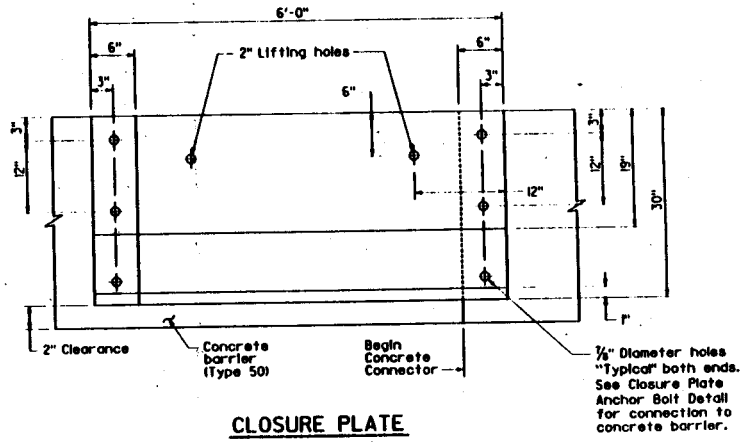
SECTION C-C



CLOSURE PLATE
ANCHOR BOLT DETAIL

NOTE

1. If lifting holes are used with the concrete connector, they shall conform to the lifting hole details shown on Standard Plan T3.
2. Paint closure plate white.
3. When the temporary terminal section (Type K) is no longer required and is to be removed, the anchor bolts connecting the closure plate and the barrier shall be removed or cut flush with the face of the concrete barrier. If the anchor bolts are removed, the resulting holes shall be filled with grout.



CLOSURE PLATE
(SIDE VIEW)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY TERMINAL SECTION (TYPE K)

NO SCALE

NSP T5 DATED AUGUST 28, 1996 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED JULY 1992.

NEW STANDARD PLAN NSP T5

STD. PLAN NSP T5

DATE PLOTTED => 11-Sep-1996
TIME PLOTTED => 16:01

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Date: August 28, 1996

JULY 1992 STANDARD PLANS BOOK

NEW STANDARD PLANS (NSP), REVISED STANDARD PLANS (RSP) AND NEW REVISED STANDARD PLANS (RNSP) ISSUED SUBSEQUENT TO THE PUBLICATION OF THE JULY, 1992 STANDARD PLANS BOOK

PLAN NO.	PLAN TITLE	DATED
~~NSP A88~~	~~Curb Ramp Details No. 1~~ *CANCELED* (*Will be reissued at a future date*)	~~7-01-92~~
~~NSP A89~~	~~Curb Ramp Details No. 2~~ *CANCELED* (*Will be reissued at a future date*)	~~7-01-92~~
NSP T7	Construction Project Funding Identification Signs	7-01-92
---	---	---
RSP A20D	Pavement Markers and Traffic Lines Typical Details	11-05-92
RSP B3-9	Retaining Wall Details No. 2	11-05-92
---	---	---
NSP A40	Rumble Strip Details	6-13-94
NSP A75D	Concrete Headlight Glare Screen	6-13-94
RSP A87	Curbs, Dikes and Driveways	6-13-94
RSP H8	Planting and Irrigation Details	6-13-94
NSP T15	Traffic Control System for Moving Lane Closure on Multilane Highways	6-13-94
NSP T16	Traffic Control System for Moving Lane Closure on Multilane Highways	6-13-94
NSP T17	Traffic Control System for Moving Lane Closure on Two Lane Highways	6-13-94
---	---	---
RSP A24A	Pavement Markings-Arrows	2-15-96
RSP A24C	Pavement Markings-Symbols and Numerals	2-15-96
RSP A77D	Guard Rail Flares	2-15-96
RSP A77E	Guard Rail Flares	2-15-96
RSP A77F	Metal Beam Guard Railing-Miscellaneous Details	2-15-96
RSP A77G	Guard Rail End Anchors (Breakaway)	2-15-96
NSP A77GA	Anchors Assembly (Breakaway, Type M) Hardware and Post Details	2-15-96
RSP A78C	Thrie Beam Barrier End Anchors	2-15-96
RSP A87	Curbs, Dikes and Driveways	2-15-96

JULY 1992 STANDARD PLANS BOOK

NEW STANDARD PLANS (NSP), REVISED STANDARD PLANS (RSP) AND NEW REVISED STANDARD PLANS (RNSP) ISSUED SUBSEQUENT TO THE PUBLICATION OF THE JULY, 1992 STANDARD PLANS BOOK

(CONT'D)

PLAN NO.	PLAN TITLE	DATED
RSP A75B	Concrete Barrier Type 50E	5-29-96
RNSP A88	Curb Ramp Details	5-29-96
RSP A90	Accessible Parking	5-29-96
RSP T2	Temporary Crash Cushion-Sand Filled	5-29-96
---	---	---
RSP T5	Temporary Terminal Section (Type K)	8-28-96

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.	DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

GENERAL ROAD WORK

MISCELLANEOUS

- ☐ A10A Abbreviations
- ☐ A10B Symbols
- ☐ A20A Pavement Markers and Traffic Lines, Typical Details
- ☐ A20B Pavement Markers and Traffic Lines, Typical Details
- ☐ A20C Pavement Markers and Traffic Lines, Typical Details
- ☐ *RSP A20D Pavement Markers and Traffic Lines, Typical Details*
- ☐ *RSP A24A Pavement Markings- Arrows*
- ☐ A24B Pavement Markings- Arrows
- ☐ *RSP A24C Pavement Markings- Symbols and Numerals*
- ☐ A24D Pavement Markings- Words
- ☐ A24E Pavement Markings- Words and Crosswalks
- ☐ A35A Portland Cement Concrete Paving Details
- ☐ A62A Excavation and Backfill- Miscellaneous Details
- ☐ A62B Limits of Payment for Excavation and Backfill Bridge- Surcharge and Wall
- ☐ A62C Limits of Payment for Excavation and Backfill- Bridge
- ☐ A62D Excavation and Backfill- Concrete Pipe Culverts
- ☐ A62E Excavation and Backfill- Cast-in-Place Reinforced Concrete Box and Arch Culverts
- ☐ A62F Excavation and Backfill- Metal and Plastic Culverts
- ☐ A73A Markers
- ☐ A73B Markers
- ☐ A73C Delineators, Channelizers and Barricades
- ☐ A74 Survey Monuments
- ☐ A75A Concrete Barrier Type 50
- ☐ *RSP A75B Concrete Barrier Type 50E*
- ☐ A75C Headlight Glare Screen
- ☐ A77A Metal Beam Guard Railing
- ☐ A77B Metal Beam Guard Railing- Standard Hardware
- ☐ A77C Metal Beam Guard Railing- Posts and Blocks
- ☐ *RSP A77D Guard Rail Flares*
- ☐ *RSP A77E Guard Rail Flares*
- ☐ *RSP A77F Metal Beam Guard Railing- Miscellaneous Details*
- ☐ *RSP A77G Guard Rail End Anchors (Breakaway)*
- ☐ A77H Guard Rail End Anchors (Breakaway Hardware)
- ☐ A77I Barrier and Guard Rail End Anchors
- ☐ A77J Guard Rail Connections to Bridge Rails, Retaining Walls and Abutments
- ☐ A77K Guard Rail Connections to Bridge Sidewalks and Curbs
- ☐ A78A Thrie Beam Barrier
- ☐ A78B Thrie Beam Barrier- Standard Hardware and Miscellaneous Details
- ☐ *RSP A78C Thrie Beam Barrier- End Anchors*
- ☐ A78D Thrie Beam Barrier Connection to Concrete Barrier Type 50
- ☐ A78E Thrie Beam Barrier Connections to Bridge Rails
- ☐ A78F Thrie Beam Barrier Connections to Bridge Curbs, Retaining Walls and Abutments
- ☐ A80 Thrie Beam Barrier Emergency Passageway
- ☐ A81 Crash Cushion, Sand Filled
- ☐ A83 Portable Scale Pad and Approach Slab Details
- ☐ A85 Chain Link Fence
- ☐ A86 Barbed Wire and Wire Mesh Fences
- ☐ *RSP A87 Curbs, Dikes and Driveways*

CRIB WALLS

- ☐ C7A Reinforced Concrete Crib Wall- Battered Walls- Types A, B and C
- ☐ C7B Reinforced Concrete Crib Wall- Battered Walls- Types D, E and F
- ☐ C7C Reinforced Concrete Crib Wall- Vertical Walls- Types A, B and C
- ☐ C7D Reinforced Concrete Crib Wall- Vertical Walls- Types D, E and F
- ☐ C7E Reinforced Concrete Crib Wall- Types A, B, C, D, E and F Header and Stretcher Details
- ☐ C7F Design Data for Reinforced Concrete Crib Wall Foundation Pressure-Battered Wall
- ☐ C7G Reinforced Concrete Crib Wall Foundation Pressure-Vertical Wall
- ☐ C8A Steel Crib Wall- Construction Details
- ☐ C8B Steel Crib Wall- Design Data
- ☐ C8C Steel Crib Wall- Design Data
- ☐ C9A Timber Crib Wall- Types A, B, C and D
- ☐ C9B Timber Crib Wall- Types A, B, C and D Design Data

DRAINAGE

- ☐ D72 Drainage Inlets
- ☐ D73 Drainage Inlets
- ☐ D74A Drainage Inlets
- ☐ D74B Drainage Inlets
- ☐ D74C Drainage Inlets Details
- ☐ D75 Pipe Inlet
- ☐ D77A Grate Details
- ☐ D77B Bicycle Proof Grate Details
- ☐ D77C Alternative Hinged Cover for Type OL and OS Inlets and Trash Rack for Type OCP Inlet
- ☐ D78 Gutter Depressions
- ☐ D79 Precast Reinforced Concrete Pipe- Direct Design Method
- ☐ D80 Cast-in-Place Reinforced Concrete Single Box Culvert
- ☐ D81 Cast-in-Place Reinforced Concrete Double Box Culvert
- ☐ D82 Cast-in-Place Reinforced Concrete Box Culvert Miscellaneous Details
- ☐ D84 Box Culvert Wingwalls- Types A, B, C
- ☐ D85 Box Culvert Wingwalls- Types D and E
- ☐ D86A Box Culvert Warped Wingwalls
- ☐ D86B Pipe Culvert Headwalls, Endwalls and Warped Wingwalls
- ☐ D86C Arch Culvert Headwalls, Endwalls and Warped Wingwalls
- ☐ D87A Overside Drains
- ☐ D87B Overside Drains
- ☐ D87C Underdrains
- ☐ D88 Construction Loads on Culverts
- ☐ D88A Strut Details for Structural Steel Plate Pipes, Arches, and Vehicular Undercrossings
- ☐ D89 Pipe Headwalls
- ☐ D90 Pipe Culvert Headwalls, Endwalls and Wingwalls- Types A, B and C
- ☐ D93A Pipe Riser Connections
- ☐ D93B Drainage Inlet Riser Connections
- ☐ D93C Pipe Riser with Debris Rack Cage
- ☐ D94A Metal and Plastic Flared End Sections
- ☐ D94B Concrete Flared End Sections
- ☐ D95 Concrete Arch Culverts
- ☐ D97A Corrugated Metal Pipe Coupling Details No. 1- Annular Coupling Band Bar and Strap and Angle Connectors
- ☐ D97B Corrugated Metal Pipe Coupling Details No. 2- Hat Band Coupler and Flange Details
- ☐ D97C Corrugated Metal Pipe Coupling Details No. 3- Helical and Universal Couplers
- ☐ D97D Corrugated Metal Pipe Coupling Details No. 4- Hugger Coupling Bands
- ☐ D97E Corrugated Metal Pipe Coupling Details No. 5- Standard Joint
- ☐ D97F Corrugated Metal Pipe Coupling Details No. 6- Positive Joint
- ☐ D97G Corrugated Metal Pipe Coupling Details No. 7- Positive Joints and Downdrains
- ☐ D97H Reinforced Concrete Pipe or Non-Reinforced Concrete Pipe Standard and Positive Joints
- ☐ D98A Slotted Corrugated Steel Pipe Drain Details
- ☐ D98B Slotted Corrugated Steel Pipe Drain Details
- ☐ D99A Structural Section Drainage System Details
- ☐ D99B Edge Drain Outlet and Vent Details
- ☐ D99C Edge Drain Cleanout and Vent Details
- ☐ D99D Cross Drain Interceptor Details

HIGHWAY PLANTING

- ☐ H1 Planting and Irrigation- Abbreviations
- ☐ H2 Planting and Irrigation- Symbols
- ☐ H3 Planting and Irrigation- Details
- ☐ H4 Planting and Irrigation- Details
- ☐ H5 Planting and Irrigation- Details
- ☐ H6 Planting and Irrigation- Details
- ☐ H7 Planting and Irrigation- Details
- ☐ *RSP H8 Planting and Irrigation- Details*

TEMPORARY FACILITIES

- ☐ T1 Temporary Crash Cushion, Sand Filled
- ☐ *RSP T2 Temporary Crash Cushion, Sand Filled*
- ☐ T3 Temporary Railing (Type K)

To accompany plans dated _____

- ☐ T4 Temporary Traffic Screen
- ☐ T10 Traffic Control System for Lane Closure on Freeways and Expressways
- ☐ T10A Traffic Control System for Lane and Complete Closures on Freeways and Expressways
- ☐ T11 Traffic Control System for Lane Closure on Multilane Conventional Highways
- ☐ T12 Traffic Control System for Lane Closure on Multilane Conventional Highways
- ☐ T13 Traffic Control System for Lane Closure on Two Lane Conventional Highways
- ☐ T14 Traffic Control System for Ramp Closures

BRIDGE

- ☐ B0-1 Bridge Details
- ☐ B0-3 Bridge Details
- ☐ B0-5 Bridge Details
- ☐ B0-13 Bridge Details
- ☐ B2-3 16'' Cast-in-Drilled-Hole Concrete Pile
- ☐ B2-5 Pile Details- Class 45 and Class 70
- ☐ B2-8 Pile Details- Class 45C and Class 70C
- ☐ B2-9 Load Test Anchor Pile Details
- ☐ B3-1 Retaining Wall- Type 1, H=4'-30'
- ☐ B3-2 Retaining Wall- Type 1, H=32'-36'
- ☐ B3-3 Retaining Wall- Type 1A
- ☐ B3-4 Retaining Wall- Type 2
- ☐ B3-5 Counterfort Retaining Wall- Type 3
- ☐ B3-6 Counterfort Retaining Wall- Type 4
- ☐ B3-7 Retaining Wall- Type 5
- ☐ B3-8 Retaining Wall Details No. 1
- ☐ *RSP B3-9 Retaining Wall Details No. 2*
- ☐ B3-11 Retaining Wall Type 6-6'-0'' Maximum
- ☐ B6-1 T- Beam Details
- ☐ B6-10 Utility Openings, T- Beam
- ☐ B6-21 Joint Seals (Maximum Movement Rating = 2'')
- ☐ B7-1 Box Girder Details
- ☐ B7-5 Deck Drains
- ☐ B7-6 Deck Drains- Type D-1 and D-2
- ☐ B7-10 Utility Opening- Box Girder
- ☐ B7-11 Utility Details
- ☐ B8-5 Cast-in-Place Prestressed Girder Details
- ☐ B11-7 Chain Link Railing
- ☐ B11-47 Cable Railing
- ☐ B11-51 Tubular Hand Railing
- ☐ B11-52 Chain Link Railing Type 7
- ☐ B11-53 Concrete Barrier Type 25
- ☐ B11-54 Concrete Barrier Type 26
- ☐ B13-1 Slope Protection Detail No. 1
- ☐ B13-2 Slope Protection Detail No. 2
- ☐ B14-1 Structural Steel Plate Vehicular Undercrossing
- ☐ B14-3 Communication and Sprinkler Control Conduit (Conduit less than 4'' Diameter)
- ☐ B14-4 Water Supply Line (Bridge) (Pipe less than 4'' Diameter)
- ☐ B14-5 Water Supply Line (Details) (Pipe less than 4'' Diameter)

ROADSIDE SIGNS

- ☐ RS1 Roadside Signs, Typical Installation Details No. 1
- ☐ RS2 Roadside Signs, Wood Posts, Typical Installation Detail No. 2
- ☐ RS3 Roadside Signs, Laminated Box Wood Posts, Typical Installation Details No. 3
- ☐ RS4 Roadside Signs, Typical Installation Detail No. 4

SHEET 1 OF 2

STANDARD PLANS LIST

(July, 1992 Edition)

Revised August 28, 1996

The Revised Standard Plans (RSP), New Standard Plans (NSP) and Revised New Standard Plans (RNSP) which apply to this contract are included as individual sheets of the project plans. The Standard Plan sheets applicable to this contract include, but are not limited to those indicated by a marked box.

USERNAME => trrichf
DGN FILE => sd1.qu09621125012

CONTRACT NO.

DATE PLOTTED => 21-Aug-1996
TIME PLOTTED => 12:51

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.	DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

OVERHEAD SIGNS

OVERHEAD SIGNS-TRUSS

- ☐ S1 Overhead Signs- Truss, Instructions and Examples
- ☐ S2 Overhead signs- Truss, Single Post Type, Post Type II thru VII
- ☐ S3 Overhead Signs- Truss, Two Post Type, Post Type I-S thru VII-S
- ☐ S4 Overhead Signs- Truss, Single Post Type, Structural Frame Members
- ☐ S5 Overhead Signs- Truss, Two Post Type, Structural Frame Members
- ☐ S6 Overhead Signs- Truss, Structural Frame Details
- ☐ S7 Overhead Signs- Truss, Frame Juncture Details
- ☐ S8A Overhead Signs- Steel Frame Removable Sign Panel Frames
- ☐ S8B Overhead Signs- Removable Sign Panel Frames, Overhead Formed Panel Mounting Details
- ☐ S8C Overhead Signs- Truss, Sign Panel Mounting Details, Laminated Panel- Type A
- ☐ S8D Overhead Signs- Truss, Removable Sign Panel Frames 110" and 120" Sign Panels
- ☐ S9 Overhead Signs- Walkway Details No. 1
- ☐ S10 Overhead Signs- Walkway Details No. 2
- ☐ S11 Overhead Signs- Walkway Safety Railing Details
- ☐ S13 Overhead Signs- Truss Pile Foundation

OVERHEAD SIGNS-LIGHTWEIGHT

- ☐ S14A Overhead Signs- Lightweight Balanced-Single Steel Post Connection and Mounting Details
- ☐ S14B Overhead Signs- Lightweight Balanced-Single Steel Post Details
- ☐ S15 Overhead Signs- Lightweight, Type A, Connection Details
- ☐ S16 Overhead Signs- Lightweight, Type B, Connection Details
- ☐ S17 Overhead Signs- Lightweight, Type C, Connection Details
- ☐ S18A Overhead Signs- Lightweight, Sign Panel Mounting Details, Laminated Panels- Type A
- ☐ S18B Overhead Signs- Lightweight, Light Fixture Mounting Details
- ☐ S20A Overhead Signs- Lightweight Post Details
- ☐ S20B Overhead Signs- Lightweight Foundation

OVERHEAD SIGNS-BOX BEAM CLOSED TRUSS ALTERNATIVE

- ☐ S39 Overhead Signs- Box Beam, Closed Truss Foundation
- ☐ S40A Overhead Signs- Box Beam, Closed Truss, Two Post Type Frame Members
- ☐ S40B Overhead Signs- Box Beam, Closed Truss, Single and Two Post Type General Frame Details
- ☐ S40C Overhead Signs- Box Beam, Closed Truss, Ribbed Sheet Metal Details
- ☐ S40D Overhead Signs- Box Beam, Closed Truss, Two Post Type Frame Details
- ☐ S40E Overhead Signs- Box Beam, Closed Truss, Two Post Type Frame Juncture Details
- ☐ S40F Overhead Signs- Box Beam, Closed Truss, Two Post Type Post Details
- ☐ S40G Overhead Signs- Box Beam, Closed Truss, Single Post Type Frame Members
- ☐ S40H Overhead Signs- Box Beam, Closed Truss, Single Post Cantilever Frame Details
- ☐ S40I Overhead Signs- Box Beam, Closed Truss, Single Post Cantilever Frame Juncture Details
- ☐ S40J Overhead Signs- Box Beam, Closed Truss, Single Post Cantilever Post Details
- ☐ S40K Overhead Signs- Box Beam, Closed Truss, Single Post Butterfly Frame Details
- ☐ S40L Overhead Signs- Box Beam, Closed Truss, Single Post Butterfly Frame Juncture Details
- ☐ S40M Overhead Signs- Box Beam, Closed Truss, Single Post Butterfly Post Details

OVERHEAD SIGNS-TUBULAR

- ☐ S40N Overhead Signs- Tubular, Instructions and Examples
- ☐ S40P Overhead Signs- Tubular, Single Post Type Layout and Pipe Selection
- ☐ S40Q Overhead Signs- Tubular, Two Post Type Layout and Pipe Sections
- ☐ S40R Overhead Signs- Tubular, Structural Frame Details No. 1
- ☐ S40S Overhead Signs- Tubular, Structural Frame Details No. 2
- ☐ S40T Overhead Signs- Tubular Foundation Details

SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS

- ☐ ES-1A Signal, Lighting and Electrical Systems- Symbols and Abbreviations
- ☐ ES-1B Signal, Lighting and Electrical Systems- Symbols and Abbreviations
- ☐ ES-2A Signal, Lighting and Electrical Systems- Service Equipment
- ☐ ES-2B Signal, Lighting and Electrical Systems- Service Equipment
- ☐ ES-2C Signal, Lighting and Electrical Systems- Service Equipment Notes
- ☐ ES-2D Signal, Lighting and Electrical Systems- Service Equipment and Typical Wiring Diagram, Type A
- ☐ ES-2E Signal, Lighting and Electrical Systems- Service Equipment and Typical Wiring Diagram, Type B
- ☐ ES-2F Signal, Lighting and Electrical Systems- Service Equipment and Typical Wiring Diagram, Type C
- ☐ ES-3A Signal, Lighting and Electrical Systems- Signal Heads and Mountings
- ☐ ES-3B Signal, Lighting and Electrical Systems- Signal Heads and Mountings
- ☐ ES-3C Signal, Lighting and Electrical Systems- Signal Heads and Mountings
- ☐ ES-3D Signal, Lighting and Electrical Systems- Signal Heads and Mountings
- ☐ ES-3E Signal, Lighting and Electrical Systems- Signal Heads and Mountings
- ☐ ES-4A Signal, Lighting and Electrical Systems- Controller Cabinet Details
- ☐ ES-4B Signal, Lighting and Electrical Systems- Controller Cabinet Details
- ☐ ES-4C Signal, Lighting and Electrical Systems- Controller Cabinet Details
- ☐ ES-4D Irrigation Controller Enclosure Cabinet
- ☐ ES-4E Signal, Lighting and Electrical Systems- Telephone Demarcation Cabinet Details
- ☐ ES-4F Signal, Lighting and Electrical Systems- Telephone Demarcation Cabinet Details
- ☐ ES-5A Signal, Lighting and Electrical Systems- Detectors
- ☐ ES-5B Signal, Lighting and Electrical Systems- Detectors
- ☐ ES-5C Signal, Lighting and Electrical Systems- Detectors
- ☐ ES-5D Signal, Lighting and Electrical Systems- Detectors
- ☐ ES-5E Signal, Lighting and Electrical Systems- Detectors
- ☐ ES-5F Signal, Lighting and Electrical Systems- Pedestrian Barricades
- ☐ ES-6A Signal and Lighting Standards- Type I Standards and Equipment Numbering
- ☐ ES-6AA Signal Standards- Push Button Post
- ☐ ES-6B Lighting Standards- Types 15, 21 and 22
- ☐ ES-6C Lighting Standards- 80' to 160' High Mast Light Pole, Foundation Details
- ☐ ES-6D Lighting Standards- Types 30 and 31, Slip Base
- ☐ ES-6DA Lighting Standards- Type 32
- ☐ ES-6E Lighting Standards- Types 30 and 31, Slip Base Plate Details
- ☐ ES-6F Lighting Standards- 10 Degree Type
- ☐ ES-6H Lighting Standards- 10 Degree Type, Details
- ☐ ES-6J Signal and Lighting Standards- Case 1 Arm Loading, Wind Velocity = 70 MPH, Arm Lengths 15' to 30'
- ☐ ES-6K Signal and Lighting Standards- Case 2 Arm Loading, Wind Velocity = 70 MPH, Arm Lengths 20' to 30'
- ☐ ES-6L Signal and Lighting Standards- Case 3 Arm Loading, Wind Velocity = 70 MPH, Arm Lengths 15' to 45'
- ☐ ES-6M Signal and Lighting Standards- Case 4 Arm Loading, Wind Velocity = 70 MPH, Arm Lengths 25' to 45'
- ☐ ES-6MA Signal and Lighting Standards- Case 5 Arm Loading, Wind Velocity = 70 MPH, Arm Lengths 50' to 55'
- ☐ ES-6N Signal and Lighting Standards- Type 40-0-80
- ☐ ES-6O Signal and Lighting Standards- Case 1 Arm Loading, Wind Velocity = 80 MPH, Arm Lengths 25' to 30'
- ☐ ES-6P Signal and Lighting Standards- Case 2 Arm Loading, Wind Velocity = 80 MPH, Arm Lengths 20' to 30'
- ☐ ES-6Q Signal and Lighting Standards- Case 3 Arm Loading, Wind Velocity = 80 MPH, Arm Lengths 20' to 45'
- ☐ ES-6R Signal and Lighting Standards- Case 4 Arm Loading, Wind Velocity = 80 MPH, Arm Lengths 25' to 45'
- ☐ ES-6RA Signal and Lighting Standards- Case 5 Arm Loading, Wind Velocity = 80 MPH, Arm Lengths 50' to 55'

To accompany plans dated _____

- ☐ ES-6S Signal and Lighting Standards- Details No. 1
- ☐ ES-6T Signal and Lighting Standards- Details No. 2
- ☐ ES-6TA Signal and Lighting Standards- Pole and Mast Arm Alternatives
- ☐ ES-6U Lighting Standards- Types 10 and 15 Slip Base Insert
- ☐ ES-6V Signal and Sign Standards- Type 33 Left Turn
- ☐ ES-7A Signal, Lighting and Electrical Systems- Electrical Details, Structure Installations
- ☐ ES-7B Signal, Lighting and Electrical Systems- Electrical Details, Structure Installations
- ☐ ES-7C Signal, Lighting and Electrical Systems- Electrical Details, Structure Installations
- ☐ ES-7D Signal, Lighting and Electrical Systems- Electrical Details, Structure Installations
- ☐ ES-7E Signal, Lighting and Electrical Systems- Electrical Details, Structure Installations
- ☐ ES-7F Signal, Lighting and Electrical Systems- Flush Soffit Luminaire Modification Details, Structure Installation
- ☐ ES-8 Signal, Lighting and Electrical Systems- Pull Box Details
- ☐ ES-9A Signal, Lighting and Electrical Systems- Cantilever Flashing Beacon, Types 9, 9A, 9B
- ☐ ES-9B Signal, Lighting and Electrical Systems- Cantilever Flashing Beacon, Types 9, 9A, 9B
- ☐ ES-10 Signal, Lighting and Electrical Systems- Isolux Diagrams
- ☐ ES-11 Signal, Lighting and Electrical Systems- Foundation Installations
- ☐ ES-12 Signal, Lighting and Electrical Systems- Pedestrian Undercrossing Fluorescent Lighting Fixture
- ☐ ES-13 Signal, Lighting and Electrical Systems- Splicing Details
- ☐ ES-14 Signal, Lighting and Electrical Systems- Wiring Detail and Fuse Ratings
- ☐ ES-15 Signal, Lighting and Electrical Systems- Pedestrian Overcrossing Fluorescent Lighting Fixture
- ☐ ES-27A Signal, Lighting and Electrical Systems- Extinguishable Message Sign, 10'' Letters
- ☐ ES-27B Signal, Lighting and Electrical Systems- Extinguishable Message Sign, 10'' Letters
- ☐ ES-28 Signal, Lighting and Electrical Systems- Extinguishable Message Sign and Flashing Beacons

SIGN ILLUMINATION

- ☐ ES-29 Sign Illumination- Mercury Sign Illumination Equipment
- ☐ ES-30 Sign Illumination- 36" Fluorescent Sign Illumination Equipment
- ☐ ES-32A Sign Illumination- Sign Illumination Equipment
- ☐ ES-32B Sign Illumination- Sign Illumination Control
- ☐ ES-33 Sign Illumination- Internally Illuminated Street Name Sign

NEW STANDARD PLANS

- ☐ NSP A40 Rumble Strip Details
- ☐ NSP A75D Concrete Headlight Glare Screen
- ~~☐ NSP A88 Curb Ramp Details No. 1~~
- ~~☐ NSP A89 Curb Ramp Details No. 2~~ } CANCELED
- ☐ NSP T7 Construction Project Funding Identification Signs
- ☐ NSP T15 Traffic Control System for Moving Lane Closure on Multilane Highways
- ☐ NSP T16 Traffic Control System for Moving Lane Closure on Multilane Highways
- ☐ NSP T17 Traffic Control System for Moving Lane Closure on Two Lane Highways
- ☐ NSP A77GA Anchor Assembly (Breakaway, Type M)-Hardware and Post Details
- ☐ NSP A90 Accessible Parking
- ☐ NSP T5 Temporary Terminal Section (Type K)

REVISED NEW STANDARD PLANS

- ☐ RNSP A88 Curb Ramp Details

SHEET 2 OF 2

STANDARD PLANS LIST

(July, 1992 Edition)

Revised August 28, 1996

DATE PLOTTED => 21-Aug-1996
TIME PLOTTED => 12:52

The Revised Standard Plans (RSP), New Standard Plans (NSP) and Revised New Standard Plans (RNSP) which apply to this contract are included as individual sheets of the project plans. The Standard Plan sheets applicable to this contract include, but are not limited to those indicated by a marked box.

USERNAME => trrichf
DGN FILE => spp2.aug9621125094

CONTRACT NO.