

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans SPECIAL DESIGNS BRANCH
 PROJECT ENGINEER
 CALCULATED/DESIGNED BY
 CHECKED BY
 DATE
 DETAILS
 QUANTITIES

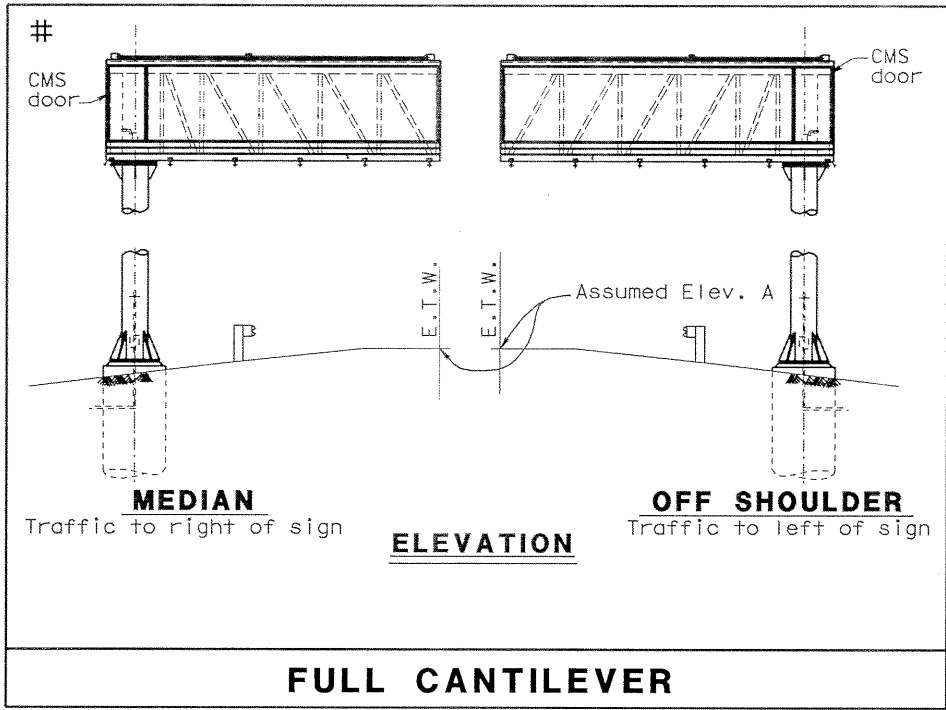


TABLE R (QUANTITIES)

"h" (m)	Weight (kg.) walkway 1 side	Weight (kg.) walkway 2 sides
4.9	4828	5566
5.5	4914	5652
6.1	5000	5738
6.7	5087	5825
7.3	5173	5911

PRELIMINARY NOTES #
 FOUNDATION DESIGN
 Foundation design is based on 2001 AASHTO article 13.6 Brams' approximate procedure assuming a cohesionless material. The angle of internal friction used is 30 degree and unit weight of soil pressure is 1922 kg/m³.
 Foundation review and foundation recommendations for pile length are required. Pile length can not be less than 5.5m.
 Review shall include alternative foundation types where CIDH pile foundation is not recommended. Project Plans and Structure Details may need revisions per foundation recommendations.
 # Not to be included in contract documents.



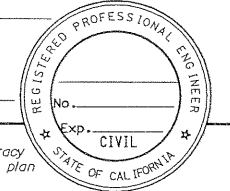
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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

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- # Instructions for using this sheet:
1. Read "PRELIMINARY NOTES" above.
 2. Choose the type of CMS desired, and place this information in "Table 1" under the heading "CMS Type".
 3. Determine the "h" value based on site information, and enter that value in "Table 1" under the heading "h".
 4. Find the "h" value in "TABLE R" of the type of CMS you are using and find the quantity given in either the "1 side" or "2 sides" column, and enter this value in "Table 1" under the "Furnish" heading and the "Install" heading. Indicate on this sheet if you are using walkways on 1 side or two sides of truss by choosing the appropriate note "1".
 5. Continue to fill in "Table 1" with the appropriate corresponding values for CMS you are using.

Model 510 Reactions

Axial (kN)	Shear (kN)	Bending Moment (kN-m)
53	35	271

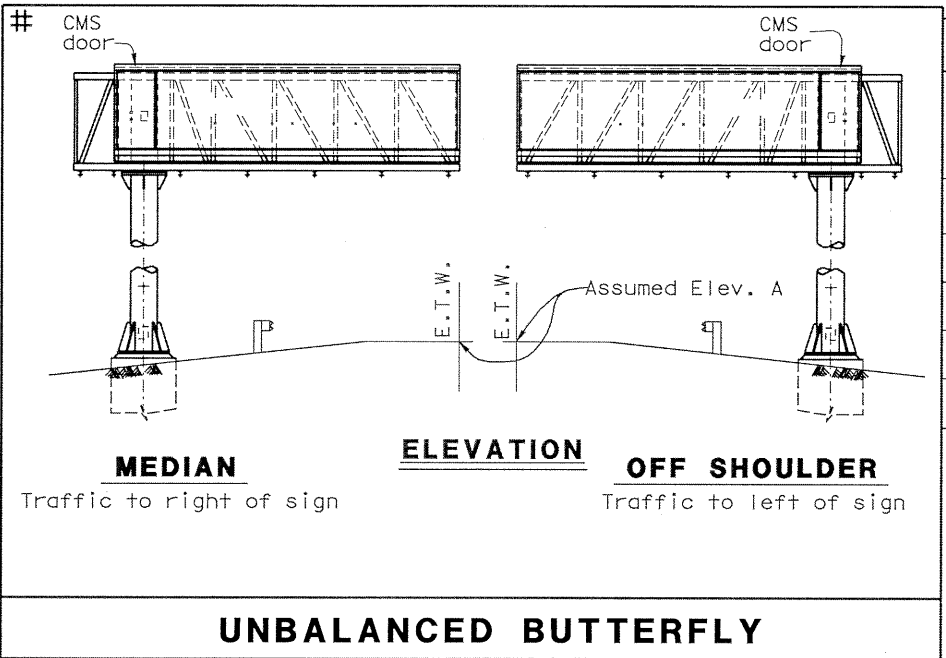


TABLE R (QUANTITIES)

"h" (m)	Weight (kg) walkway 1 side	Weight (kg) walkway 2 sides
4.9	5151	5937
5.5	5237	6023
6.1	5324	6110
6.7	5410	6196
7.3	5496	6282

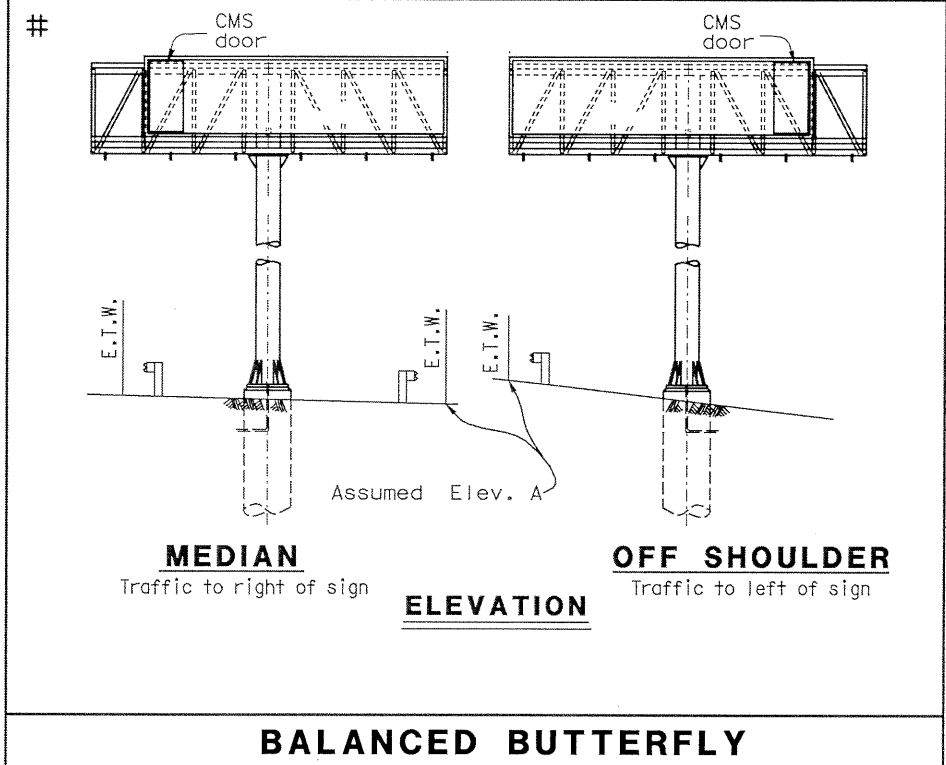


TABLE R (QUANTITIES)

"h" (m)	Weight (kg.) walkway 1 side	Weight (kg.) walkway 2 sides
4.9	5303	6148
5.5	5390	6235
6.1	5476	6321
6.7	5562	6407
7.3	5649	6494

TABLE I

CMS Type	Loc No.	Station	Route	Orientation	X (m)	"h" (m)	Assumed Elev A (m)	** Elev B (m)	QUANTITIES		
									Furnish (kg)	Install (kg)	1220 mm Dia CIDH Pile (m)
							100.00		See TABLE R	See TABLE R	*

- NOTES:
1. Quantities are based on either 1-side or 2-sides walkway.
 2. For layout and dimensions see "LAYOUT" sheet.
 3. Quantities do not include "State furnished CMS Panel".
 4. The contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**SIGN PLAN
 MODEL 510
 CHANGEABLE MESSAGE SIGNS
 OVERHEAD SIGN TRUSS SINGLE POST
 DESIGN TABLE**

* See data from foundation recommendations
 ** Assumed Elev. B is at bottom of Base plate