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

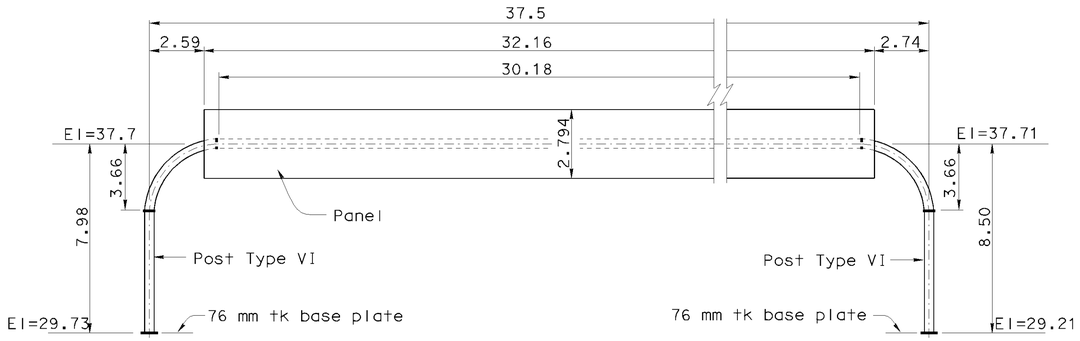
Caltrans Metric

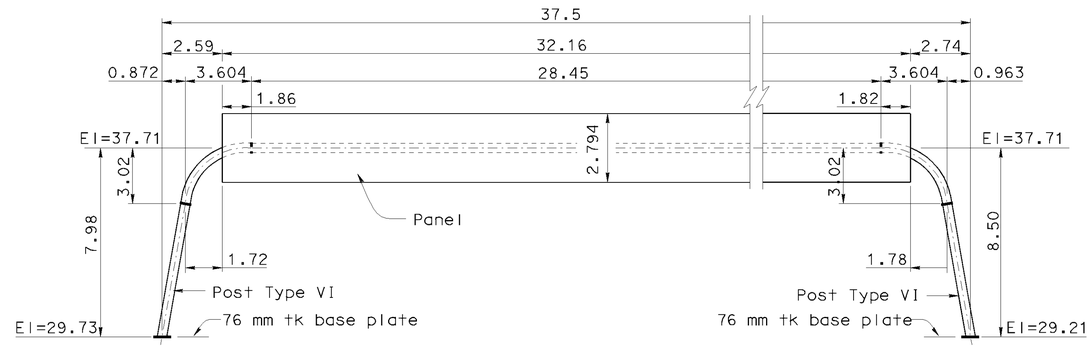
REGISTERED ENGINEER - CIVIL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. 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.





Anchor bolts A307, bolts & nuts = 517 kg x 2 = 1034 kg

Base plates = 641 kg x 2 = 1282 kg

Gussets at post & base plate = 82 kg x 2 = 164 kg

Post: Use table "STRAIGHT POST QUANTITIES", post VI data
Left side: Post VI
= 3388 + (7.98-7.62)/0.61 x (3600-3388) - pipe length for 76 mm tk base plate
= 3388 + (7.98-7.62)/0.61 x (3600-3388) - (76/1000) x 348 = 3487 kg
Right side: Post VI
= 3600 + (8.5-8.23)/0.61 x (3813-3600) - pipe length for 76 mm tk base plate
= 3600 + (8.5-8.23)/0.61 x (3813-3600) - (76/1000) x 348 = 3668 kg

Mast arm:
Length of mass arm = 30.18 m
Weight = 30.18 m x 176.7 kg/m = 5333 kg
Splice plate 2 each = 606 kg x 2 = 1212 kg
Bolts & nuts = 52 kg x 2 = 104 kg
19 mm square bar on mass arm = 30.18 m x 2.842 kg/m = 86 kg

Mounting bracket assemblies:
No. of bracket = (37.5-2.59-2.74)/1.67 = 20 spaces + 1 = 21 brackets
Clamp assembly = 19 x 39 kg = 741 kg
Mounting brackets = 21 x 55 kg = 1155 kg
Gusset support at elbow 2 x 4 kg = 8 kg

Walkway assembly:
Total weight (32.16 m x 111.6 kg/m) = 3589 kg

Subtotal: = 21863 kg

Galvanized structure + 3.5% = 765 kg

Total weight: = 22628 kg

Anchor bolts A307, bolts & nuts = 517 kg x 2 = 1034 kg

Base plate = 641 kg x 2 = 1282 kg

Gussets at post & base plate = 82 kg x 2 = 164 kg

Post: Use table "SLANTED POST QUANTITIES", post VI data
Left side: Post VI
= 3411 + (7.98-7.62)/0.61 x (3627-3411) - pipe length for 76 mm tk base plate
= 3411 + (7.98-7.62)/0.61 x (3627-3411) - (76/1000) x 348 = 3512 kg
Right side: Post VI
= 3627 + (8.50-8.23)/0.61 x (3843-3627) - pipe length for 76 mm tk base plate
= 3627 + (8.50-8.23)/0.61 x (3843-3627) - (76/1000) x 348 = 3696 kg

Mast arm:
Length of mass arm = 28.45 m
Weight = 28.45 m x 176.7 kg/m = 5027 kg
Splice plate 2 each = 606 kg x 2 = 1212 kg
Bolts & nuts = 52 kg x 2 = 104 kg
19 mm square bar on mass arm = 28.45 m x 2.842 kg/m = 81 kg

Mounting bracket assemblies:
No. of bracket = (37.5-2.59-2.74)/1.67 = 20 spaces + 1 = 21 brackets
Clamp assembly = 19 x 39 kg = 741 kg
Mounting brackets = 21 x 55 kg = 1155 kg
Gusset support at elbow 2 x 4 kg = 8 kg

Walkway assembly:
Total weight (32.16 m x 111.6 kg/m) = 3589 kg

Subtotal: = 21605 kg

Galvanized structure + 3.5% = 756 kg

Total weight: = 22361 kg

ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE SHOWN

THIS SHEET NOT A PART OF CONTRACT PLANS

OVERHEAD SIGNS-TUBULAR TWO POST TYPE

QUANTITIES | **18**