

INTERIM DESIGN B STRUCTURE COMPUTATION SHEET * NO WALKWAY

REV 9/26/14

(SEE GENERAL NOTE 1)

LOW S.P. _____ OH SIGN NO. _____

DESIGNED BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____

REVISED BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____

SIGN PANEL AREA: _____

EO PANEL AREA: _____

SPAN LENGTH: _____ TRUSS TYPE A B C TOTAL SIGN PANEL AREA \rightarrow _____ SQ.FT
SIGN PANEL AREA + EO PANEL AREA

	<u>LEFT POST</u>		<u>RIGHT POST</u>	
	ORIGINAL	REVISED	ORIGINAL	REVISED
LOW STEEL (1)	_____	_____	_____	_____
ELEV A	-	_____	-	_____
Y DIMENSION	+	_____	+	_____
(DISTANCE FROM CENTER OF TRUSS TO TOP OF TRUSS)	+	<u>3.00</u>	+	<u>3.00</u>
(2)	-	<u>1.33</u>	(2) -	<u>1.33</u>
POST HEIGHT =	_____	_____	POST HEIGHT =	_____
		POST TYPE		POST TYPE

POST STEEL: _____ (_____ + _____) + _____ + _____ = _____ POUNDS
LBS/FT from ST-2 CHART LEFT POST HT RIGHT POST HT LEFT POST CONSTANT RIGHT POST CONSTANT
CONSTANT PER POST (from ST-2 CHART)

TRUSS STEEL: _____ FT x [123(A)] [168 (B)] [196 (C)] (CIRCLE ONE) = _____ POUNDS
SPAN LENGTH

PANEL MOUNTING POST STEEL: WEIGHT PER POST _____ x _____ POSTS = _____ POUNDS
POST WEIGHT (BASED ON PANEL HEIGHT) NO. OF POSTS (BASED ON PANEL WIDTH)
SEE CHART ON ST-2 SEE CHART ON ST-10

PANEL MOUNTING POST STEEL: WEIGHT PER POST _____ x _____ POSTS = _____ POUNDS

PANEL MOUNTING POST STEEL: WEIGHT PER POST _____ x _____ POSTS = _____ POUNDS

TOTAL PANEL MOUNTING POST STEEL _____ POUNDS

SHAFT FOOTING (LEFT): _____ CUBIC YARDS SHAFT FOOTING (RIGHT): _____ CUBIC YARDS
BASED ON POST TYPE BASED ON POST TYPE
SEE CHART ON ST-3 SEE CHART ON ST-3

SPREAD FOOTING (LEFT): _____ + 0.46 x _____ = _____ CUBIC YARDS
CONSTANT OF 9.3 or 16.7 "G" PEDESTAL HEIGHT
BASED ON POST TYPE, SEE CHART ON ST-3

SPREAD FOOTING (RIGHT): _____ + 0.46 x _____ = _____ CUBIC YARDS
"G"

MEDIAN FOOTING (LEFT) _____ EACH MEDIAN FOOTING (RIGHT) _____ EACH

NOTES:

- (1) LOW STEEL (WHEN DESIGNING FOR FUTURE WALKWAYS) IS BOTTOM OF PANEL MOUNTING POST ON THE TALLEST SIGN PANEL.
- (2) WHEN DESIGNING STRUCTURE WHICH WILL ACCOMMODATE A FUTURE WALKWAY, YOU MUST SUBTRACT THIS DISTANCE (1.33 FEET) (FROM BOTTOM OF PANEL MOUNTING POST TO BOTTOM OF FUTURE WALKWAY) WHEN COMPUTING POST HEIGHT. * SEE SECTION DRAWING ON ST-1

GENERAL NOTES:

1. CURRENT MnDOT POLICY IS TO DESIGN ALL OH SIGN STRUCTURES TO BE EASILY RETROFITTED WITH A WALKWAY MEETING 17'-4" CLEARANCE ABOVE ROADWAY.
2. FOR DETAILS ON "Y DIMENSION" SEE SHEET ST-1. FOR DETAILS ON "G" (SPREAD FOOTING PEDESTAL HEIGHT) SEE ST-3
3. PANEL MOUNTING POSTS EXTEND 3 INCHES BELOW THE BOTTOM EDGE OF SIGN PANELS (as per SECTION A-A DRAWING ON ST-10)
4. FOR SINGLE POST STRUCTURES (CANTILEVERS) DESIGNATE OH POST AS "LEFT POST" FOR CONSISTENCY WITH SP CHART DIAGRAM
5. ELEV A = ELEVATION AT BOTTOM OF BASE PLATE. FOR COMPUTATION, POST HEIGHT IS MEASURED FROM ELEV. A TO TOP OF TRUSS.