



TABLE III - GANTRY COLUMN AND ANCHORAGE DETAILS

GANTRY SPAN (S) (mm)	COLUMN WIDTH		BASE PLATE (mm)	HOLDING DOWN BOLTS						
	W1 (mm)	W2* (mm)		SIZE	No.	X1 (mm)	X2 (mm)	X3 (mm)	Y1 (mm)	Y2 (mm)
S <= 13000	500	700	1150 x 750 x 55 THK	M36	22	180	155	100	150	175
13000 < S <= 17000	500	800	1250 x 800 x 60 THK	M36	22	200	175	100	150	200
17000 < S <= 22000	500	950	1400 x 800 x 60 THK	M36	22	200	230	120	150	200

TABLE IV - UNFACTORED DESIGN ACTIONS AT BASE OF GANTRY COLUMNS

GANTRY SPAN (S) (mm)	FORCE (kN)			MOMENT (kNm)			SUGGESTED FOOTING SIZES (mm)		
	Fx	Fy	Fz	Mx	My	Mz	L	B	D
S <= 13000	490	230	180	560	1410	140	5500	3000	2000
13000 < S <= 17000	500	240	230	680	1600	270	6000	3000	2000
17000 < S <= 22000	500	260	270	870	2100	510	6000	3000	2000

- NOTES:
- A WIND PRESSURE OF 3.3 kN/m² HAS BEEN ADOPTED IN THE DESIGN.
 - DEFINITION OF FORCES AND MOMENTS SEE ISOMETRIC VIEW.
 - SUGGESTED FOOTING SIZES ARE GIVEN FOR REFERENCE ONLY. SEPARATE DESIGN OF FOUNDATION SHALL BE PROVIDED TO SUIT SITE CONDITIONS.
 - DESIGN OF REINFORCED CONCRETE SHALL COMPLY WITH THE STRUCTURES DESIGN MANUAL FOR HIGHWAYS AND RAILWAYS (2013).

NOTES:
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING No. SSD159(1).

no.	date	description	initial
A	11/16	DRAWING LAYOUT REARRANGED: COLUMN BASE CONNECTION DETAIL AND TABLE IV REVISED	SIGNED C.P. WONG, E/P2-3 SIGNED P.T. LEUNG, SE/P2

REVISION			
name	signature	date	
designed	K. S. LAM	SIGNED	04/11
drawn	W. K. WOO	SIGNED	04/11
senior technical officer	Y. W. CHIN	SIGNED	08/11
project engineer	K. S. LAM	SIGNED	08/11
senior engineer	P. T. LEUNG	SIGNED	08/11

approved
P. K. LEE
Chief Highway Engineer
05/08/2011
date

contract no.
file no. STR 5/40/18
project no.
contract

drawing title
TRAFFIC CONTROL AND SURVEILLANCE SYSTEM
SIGN GANTRY TYPE D
FOR PRISMATIC VARIABLE MESSAGE SIGN OR FIXED DIRECTIONAL SIGN WITH LANE CONTROL SIGNAL
(SHEET 3 OF 4)

drawing no. SSD159(3)-A
scale AS SHOWN

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