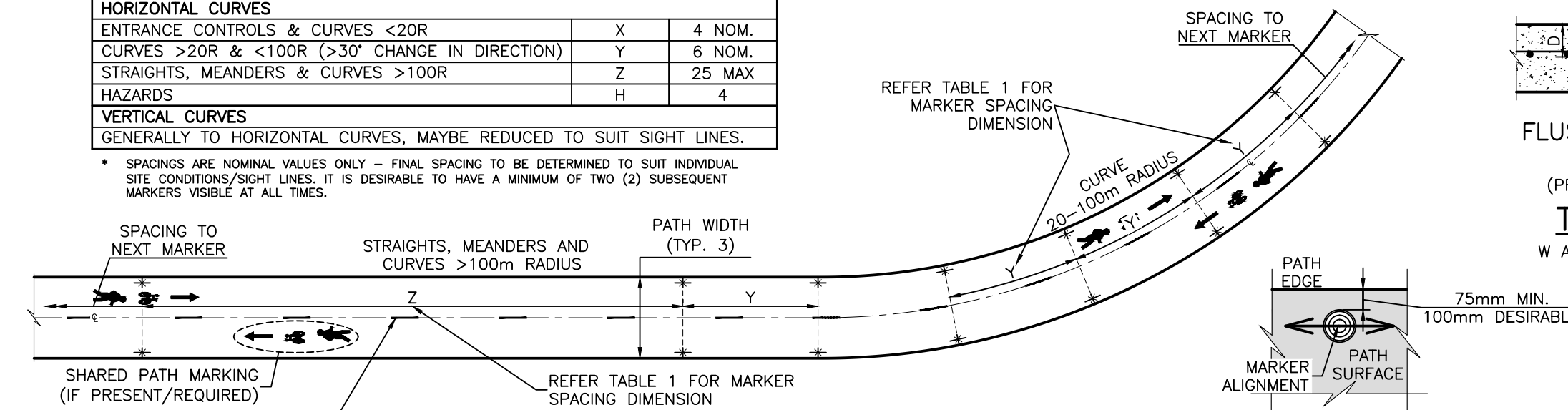


TABLE 1 – SOLAR MARKER SPACINGS

LOCATION	IDENTIFIER	SPACING*
HORIZONTAL CURVES		
ENTRANCE CONTROLS & CURVES <20R	X	4 NOM.
CURVES >20R & <100R (>30° CHANGE IN DIRECTION)	Y	6 NOM.
STRAIGHTS, MEANDERS & CURVES >100R	Z	25 MAX
HAZARDS	H	4
VERTICAL CURVES		
GENERALLY TO HORIZONTAL CURVES, MAYBE REDUCED TO SUIT SIGHT LINES.		

* SPACINGS ARE NOMINAL VALUES ONLY – FINAL SPACING TO BE DETERMINED TO SUIT INDIVIDUAL SITE CONDITIONS/SIGHT LINES. IT IS DESIRABLE TO HAVE A MINIMUM OF TWO (2) SUBSEQUENT MARKERS VISIBLE AT ALL TIMES.

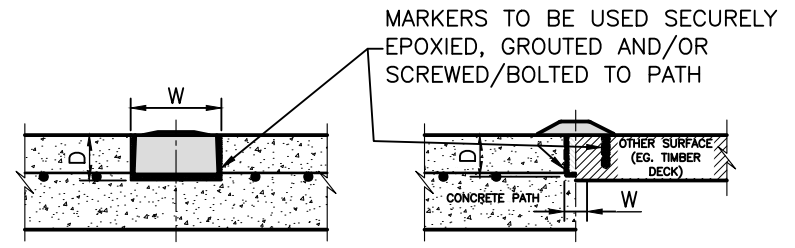


INSTALLATION ARRANGEMENT 1

GENERAL INSTALLATION
STRAIGHTS AND CURVES >20m RADIUS

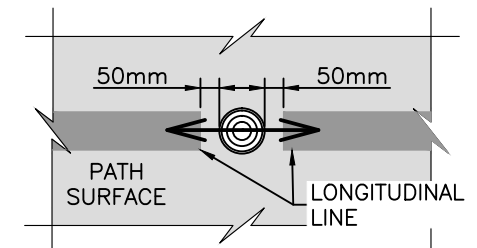
OFFSET FROM PATH EDGE

CIRCULAR, FLUSH MOUNTED TYPE SHOWN AS EXAMPLE



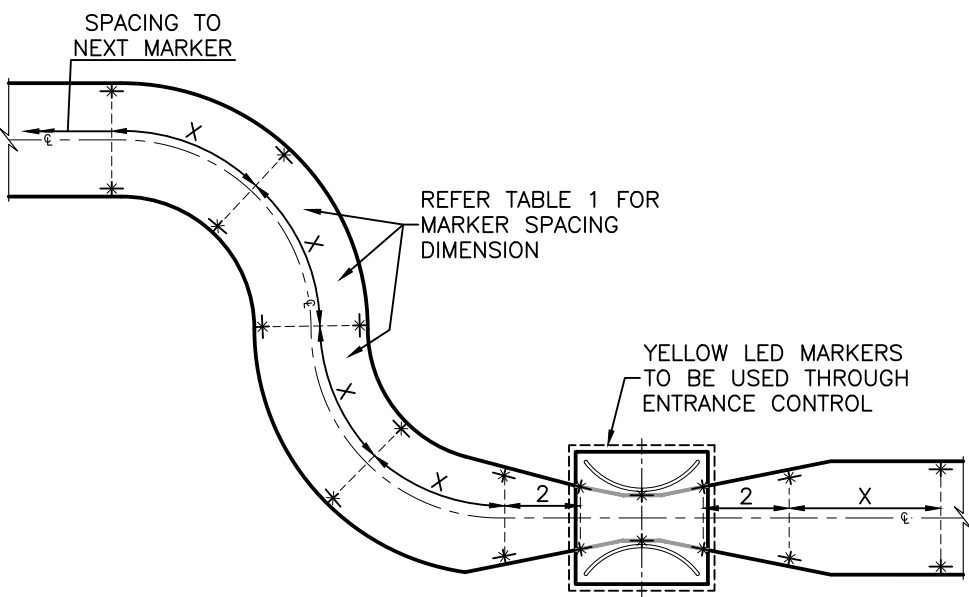
TYPICAL CROSS SECTIONS

W AND D TO SUPPLIER/MANUFACTURER REQUIREMENTS



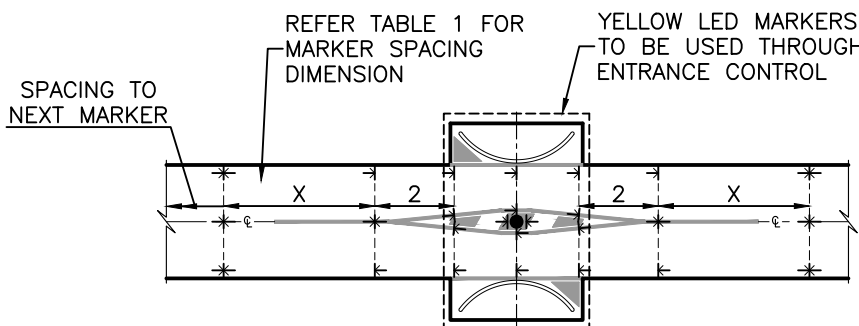
LONGITUDINAL LINE AT MARKER

CIRCULAR, FLUSH MOUNTED TYPE SHOWN AS EXAMPLE



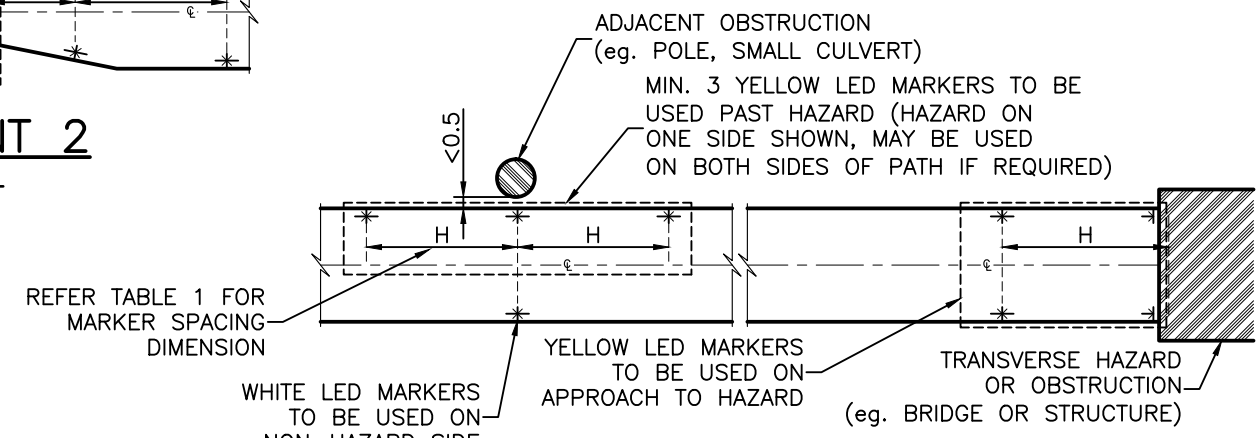
INSTALLATION ARRANGEMENT 2

INSTALLATION AT TYPE 1 ENTRANCE CONTROL
AND TIGHT CURVES (<20m RADIUS)



INSTALLATION ARRANGEMENT 3

INSTALLATION AT TYPE 2 ENTRANCE CONTROL



INSTALLATION ARRANGEMENT 4

INSTALLATION PAST OR APPROACHING A HAZARD

LEGEND

- * BI-DIRECTIONAL SOLAR LED MARKER
- UNI-DIRECTIONAL SOLAR LED MARKER

NOTES:

1. USE OF SOLAR POWERED MARKERS TO BE IN ACCORDANCE WITH REQUIREMENTS OF BCC POLICY AT03 SHARED PATHWAY LIGHTING – INSTALLATION GUIDE.
2. FLUSH MOUNTED SOLAR LED MARKERS PREFERRED TYPE. SURFACE MOUNTED MARKERS TYPICALLY TO BE USED ON STRUCTURES OR WHERE CORING INTO SURFACE NOT POSSIBLE (EG. TIMBER DECKING).
3. SOLAR LED MARKER TO BE SECURELY AFFIXED TO PATH.
4. WHITE MARKERS TO BE USED IN GENERAL GUIDANCE AND DIRECTIONAL SITUATIONS, YELLOW MARKERS TO BE USED IN HAZARD AND ENTRANCE CONTROL LOCATIONS.
5. ALL LINEAR DIMENSIONS (i.e. ALONG THE PATH) TO BE MEASURED ALONG THE PATH CENTRELINE.
6. REFER BRISBANE CITY COUNCIL STANDARD DRAWINGS UMS 251 AND UMS 257 FOR ENTRANCE CONTROL SETOUT DETAILS.
7. REFER BRISBANE CITY COUNCIL STANDARD DRAWINGS UMS 258 FOR SHARED PATH PAVEMENT MARKING DETAILS.
8. SPACINGS SHOWN IN TABLE 1 ARE TYPICAL SPACING FOR MARKERS – SPACINGS MAYBE DECREASED TO ACCOUNT FOR SIGHT LINES AND MAINTAIN CONSTANT VISIBILITY THROUGH HORIZONTAL AND VERTICAL CURVES.
9. FOR MARKER TECHNICAL SPECIFICATIONS, REFER BRISBANE CITY COUNCIL REFERENCE SPECIFICATION FOR CIVIL ENGINEERING WORKS S156 SOLAR ROAD AND BIKEWAY MARKERS.
10. SOLAR LED MARKERS INSTALLED TO SUPPLIER AND/OR MANUFACTURER REQUIREMENTS.
11. ALL DIMENSIONS IN METRES (U.N.O.)

ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE
B	Marker Spacing (Inc. Table 1) Revised, Notes 8 & 9 Added	DL 06/10	IC 11/10	PC 01/11
A	ORIGINAL ISSUE	Feb '09	Sept '09	Sept '09

DESIGN AUTHORISED FOR ISSUE			
P COTTON SIGNATURE ON ORIGINAL DATED 24/09/09			
MANAGER CITY ASSETS, R.P.E.Q. 2546			
DESIGN APPROVED			
I CONDRI (RPEQ 8951) SIGNATURE ON ORIGINAL DATED 18/09/09			
PRINCIPAL ENGINEER STRATEGIC ASSET MANAGEMENT			
DESIGN	DJL	DATE	Feb '09
DRAWN	DJL	DATE	Feb '09
CHECKED	City Assets	DATE	Sept '09
DRAWING FILENAME	UMS 260.dwg		
ASSOCIATED PLANS			



BRISBANE CITY COUNCIL STANDARD DRAWING

TYPICAL REQUIREMENTS FOR SOLAR LED MARKERS: OFF-ROAD SHARED/BICYCLE PATHS

SCALE: NOT TO SCALE
DWG No. **UMS 260**
ORIGINAL SIZE: A3 REVISION: B