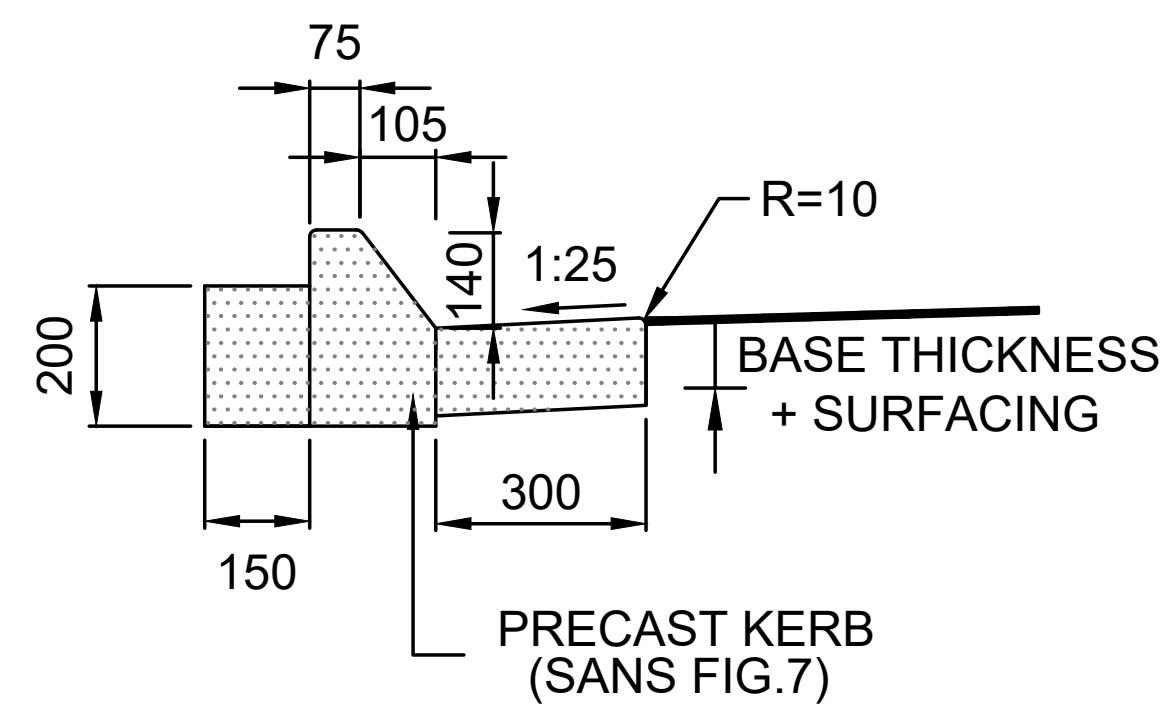


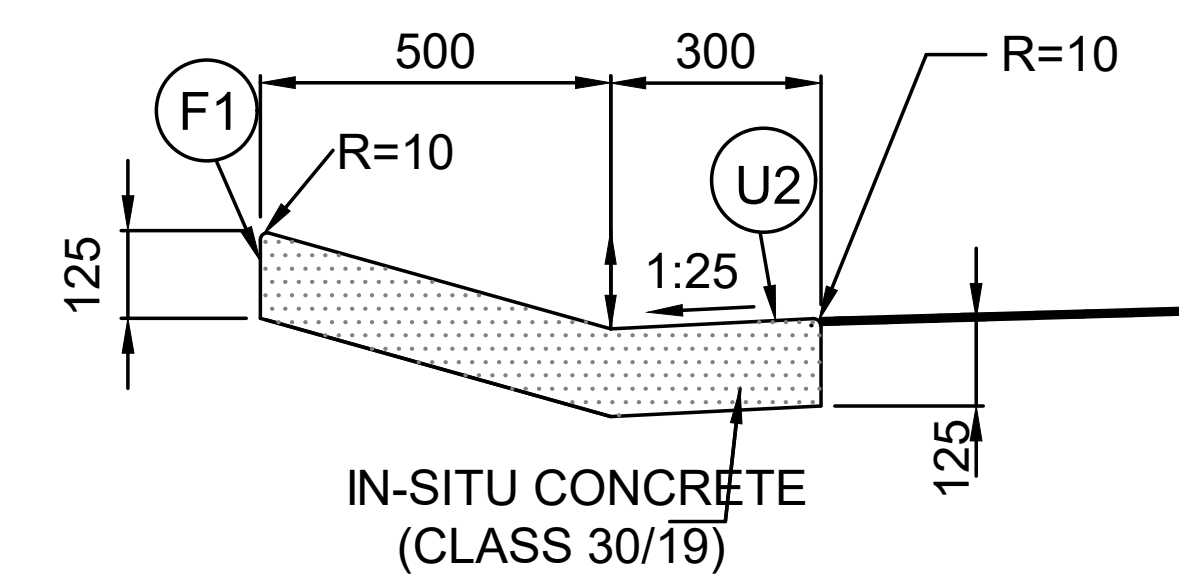
CROSS SECTION OF TYPE 'A'  
CONCRETE SIDE DRAIN

SCALE 1:20



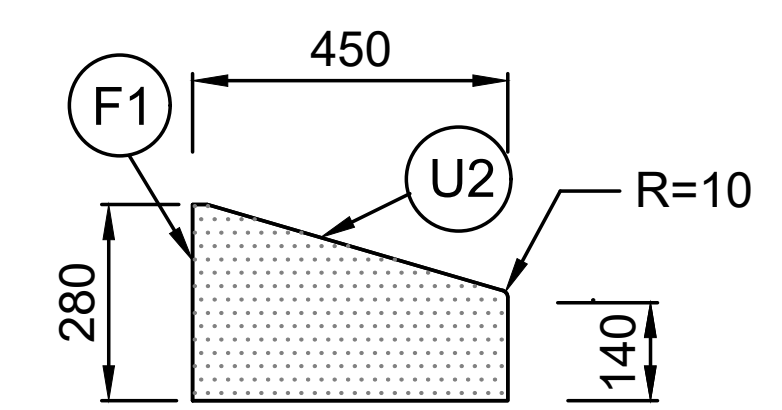
CROSS SECTION OF TYPE 'B'  
SEMI MOUNTABLE KERB (FIG. 7)

SCALE 1:20



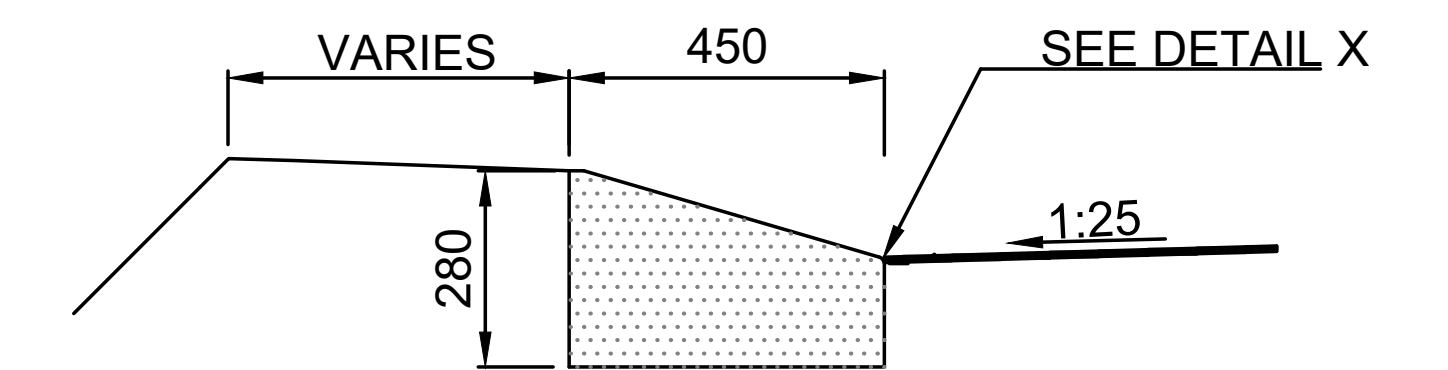
CROSS SECTION OF TYPE 'C'  
MOUNTABLE KERB (RURAL INTERSECTIONS)

SCALE 1:20



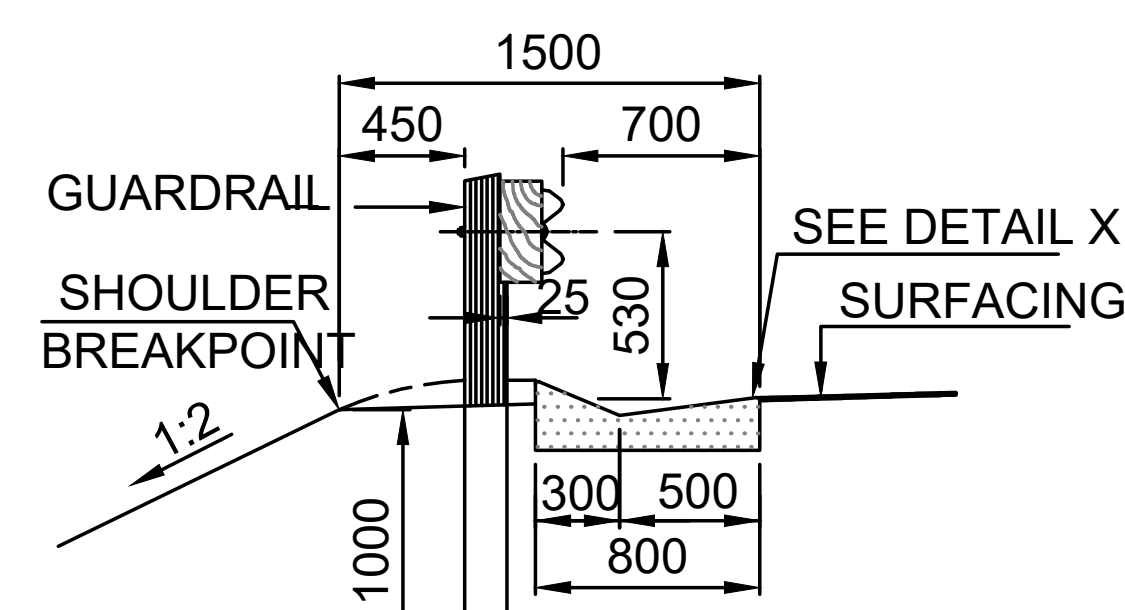
CROSS SECTION OF TYPE 'D'  
MOUNTABLE KERB

SCALE 1:20



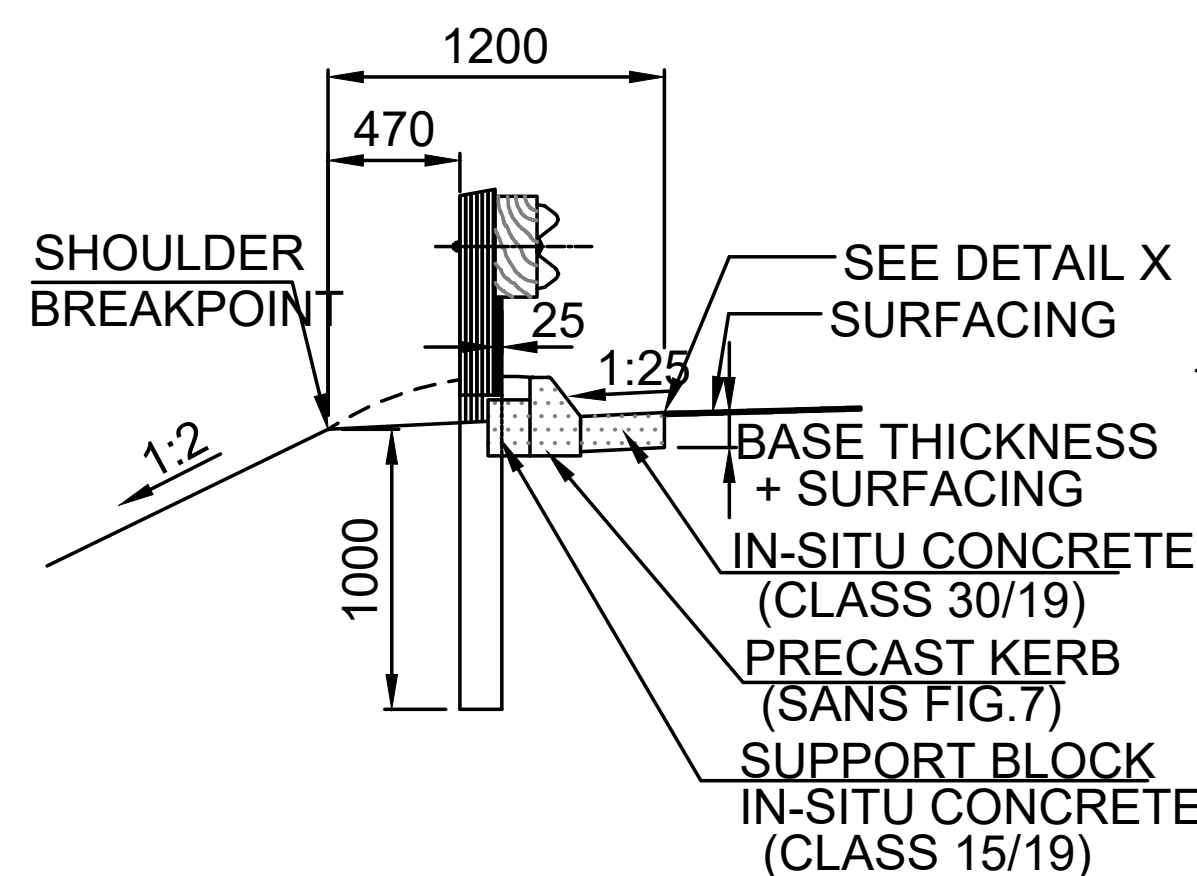
POSITION OF TYPE 'D'  
MOUNTABLE KERB  
(STREET SECTIONS)

SCALE 1:20



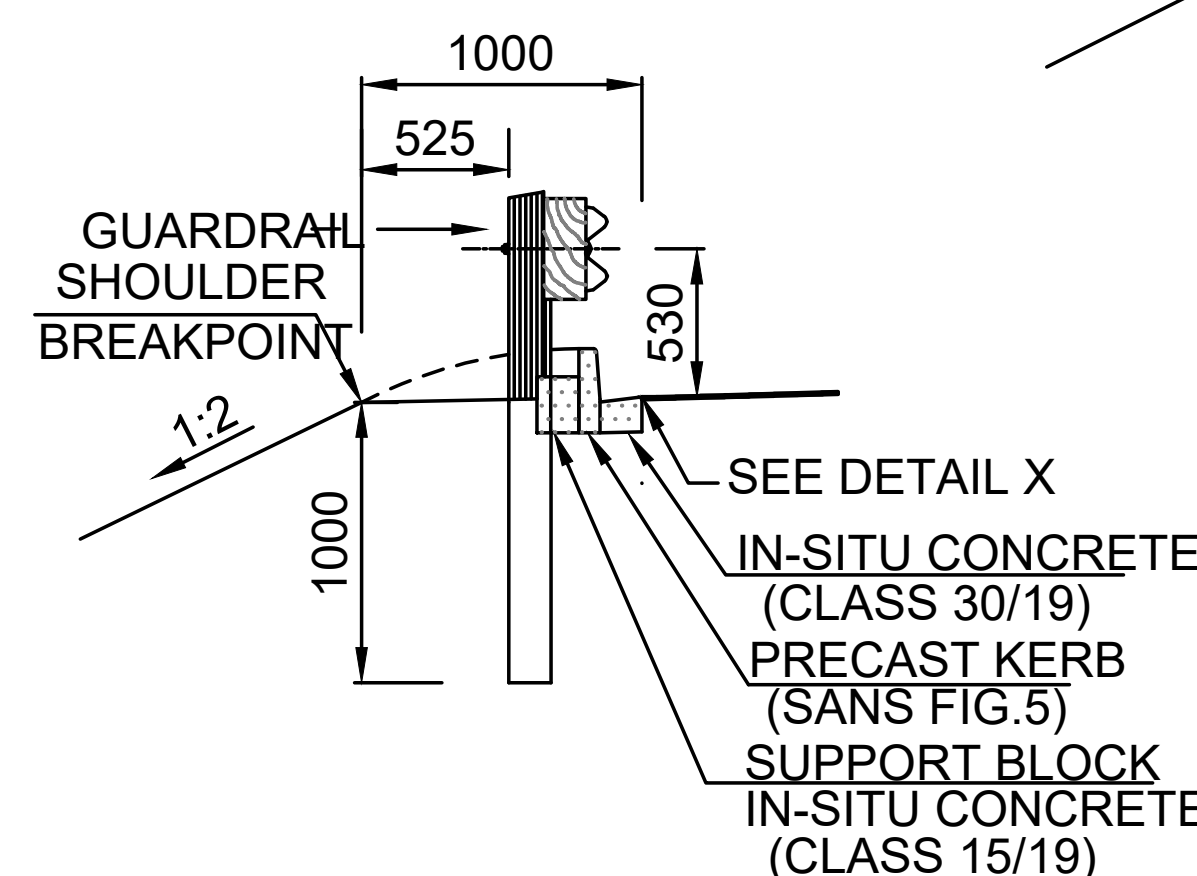
POSITION OF TYPE 'A'  
CONCRETE SIDE DRAIN

SCALE 1:50



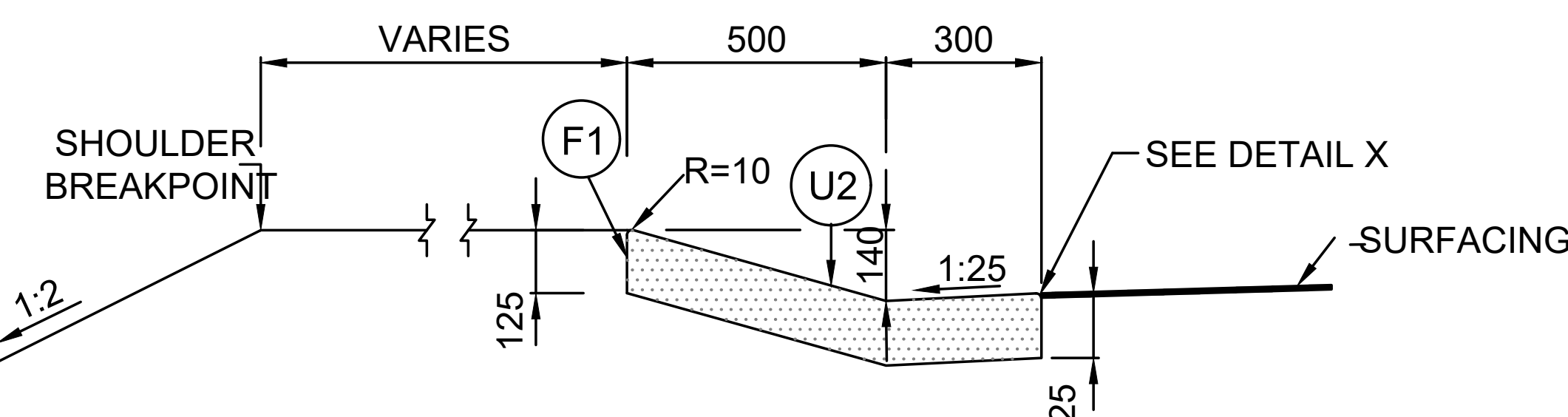
POSITION OF TYPE 'B'  
SEMI MOUNTABLE  
KERB(FIG. 7)

SCALE 1:50



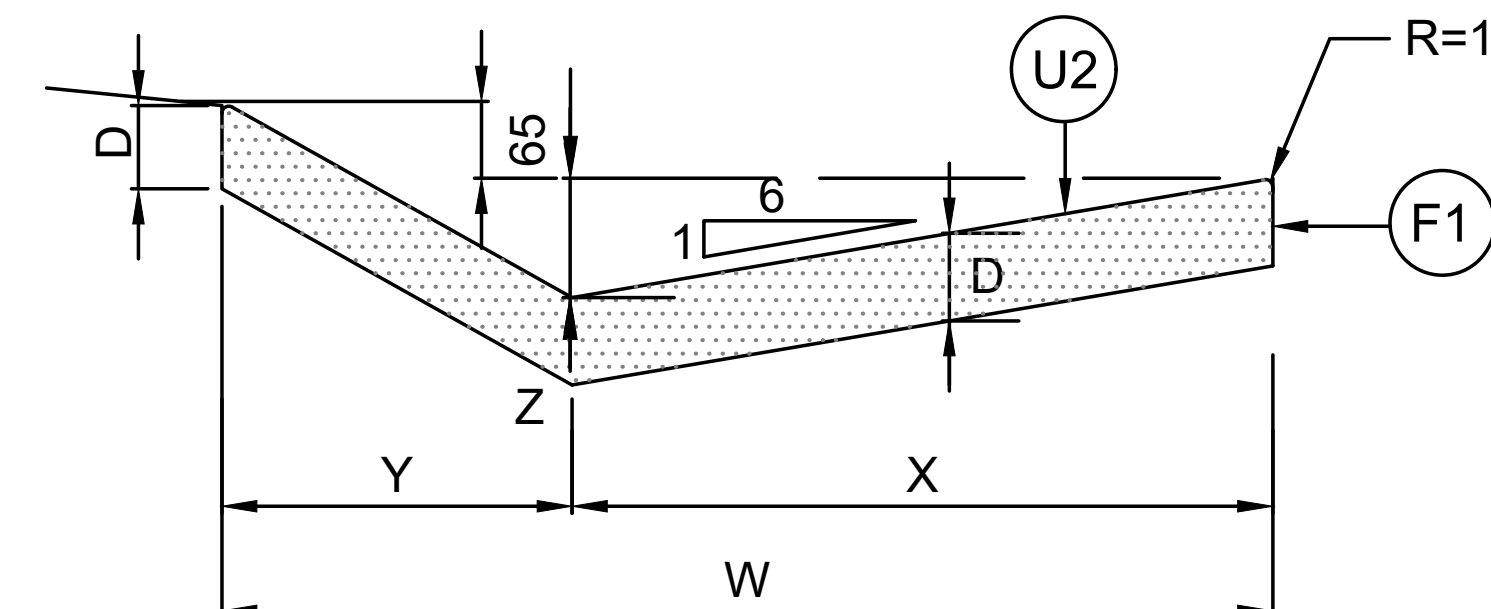
POSITION OF ALTERNATIVE  
TYPE 'B' NON MOUNTABLE  
KERB (FIG. 5)

SCALE 1:50



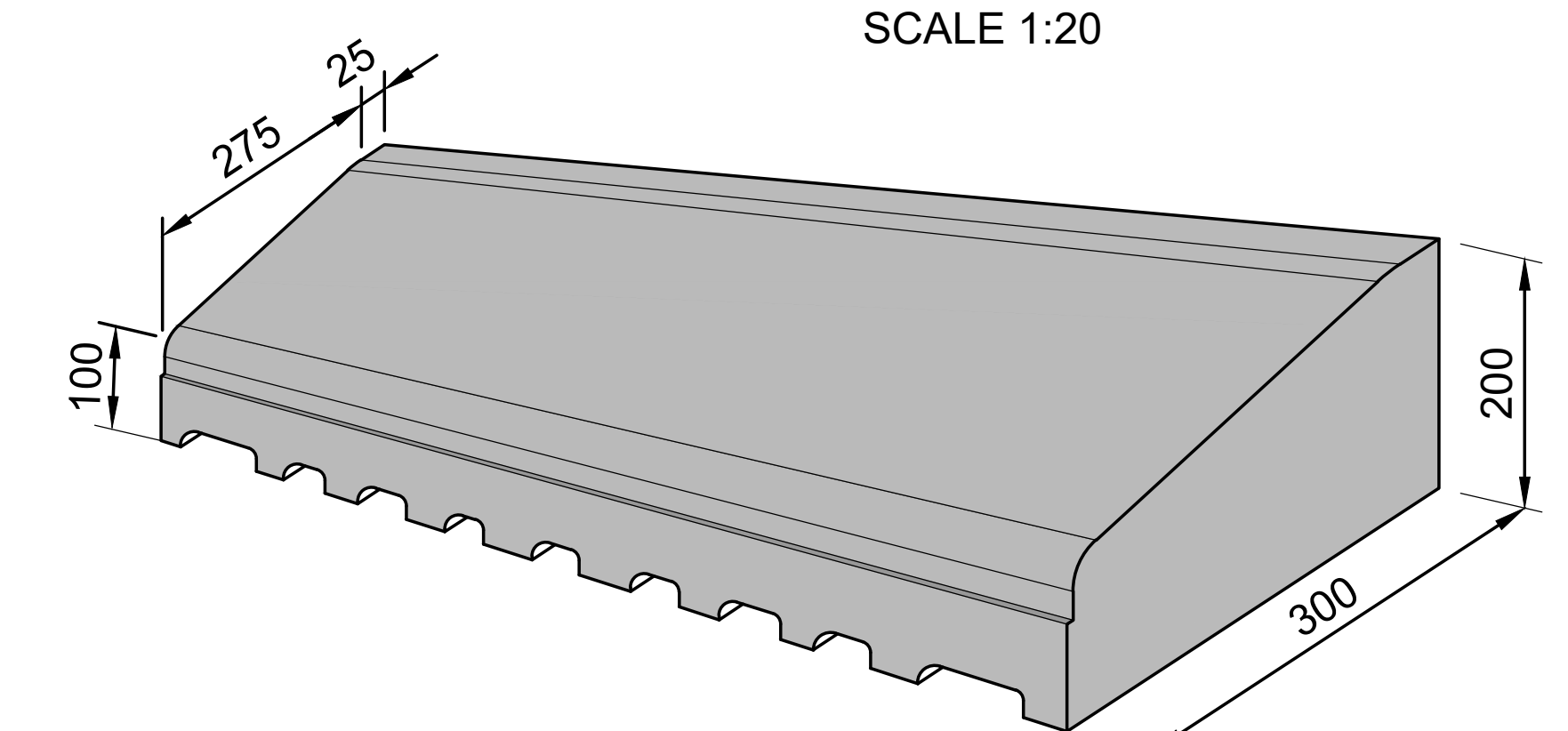
POSITION OF TYPE 'C'  
MOUNTABLE KERB

SCALE 1:20



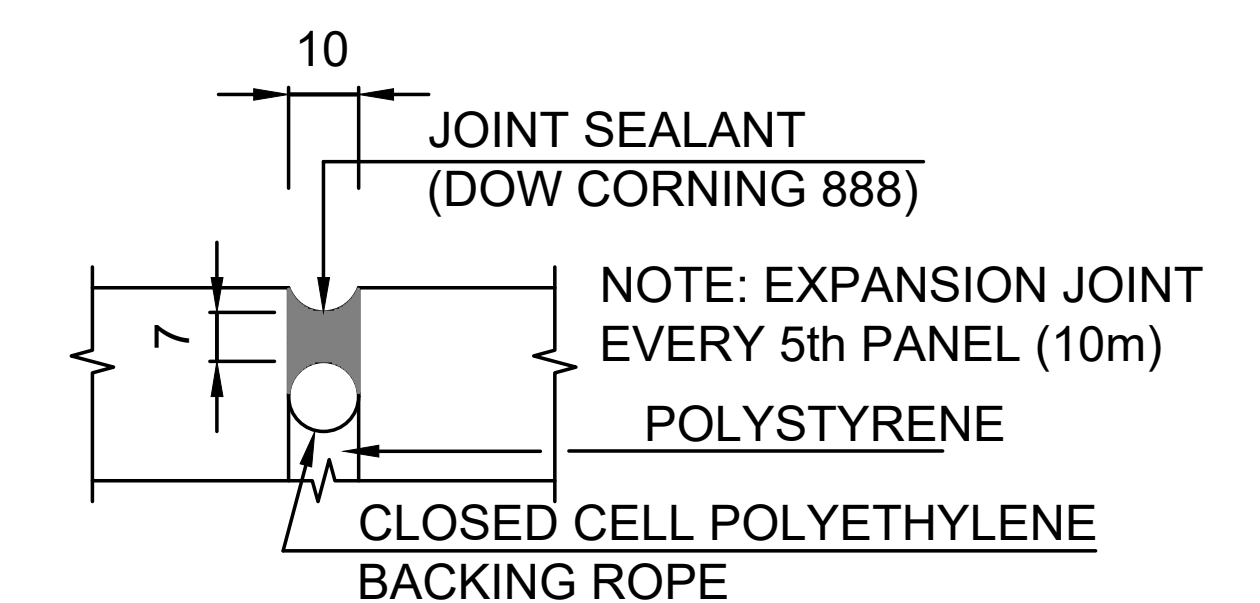
CROSS SECTION OF TYPE 'F'  
CONCRETE SIDE CHANNEL

N.T.S.



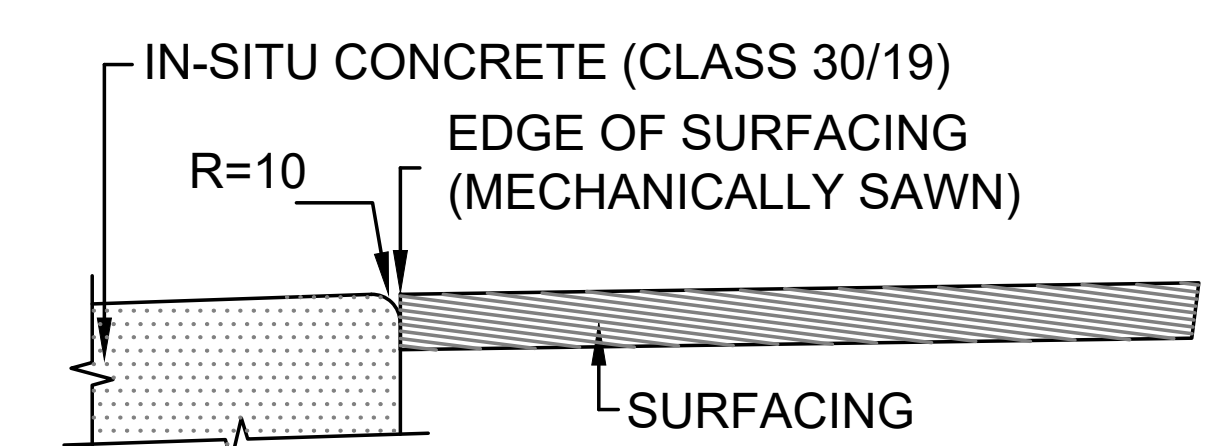
DETAIL OF TYPE C KERB

N.T.S.



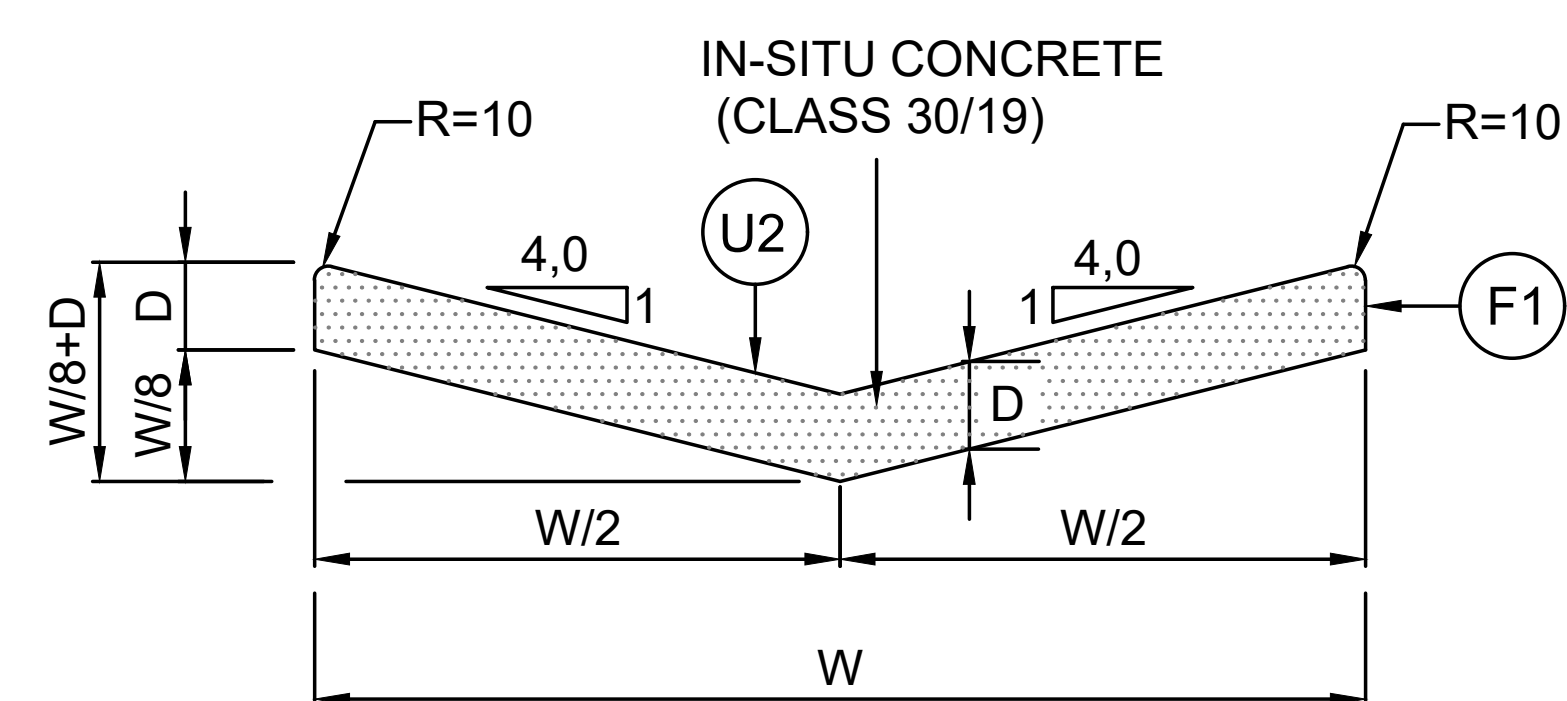
EXPANSION JOINT

N.T.S.



DETAIL X

SCALE 1:5



CROSS SECTION OF TYPE 'E'  
CONCRETE CHANNEL

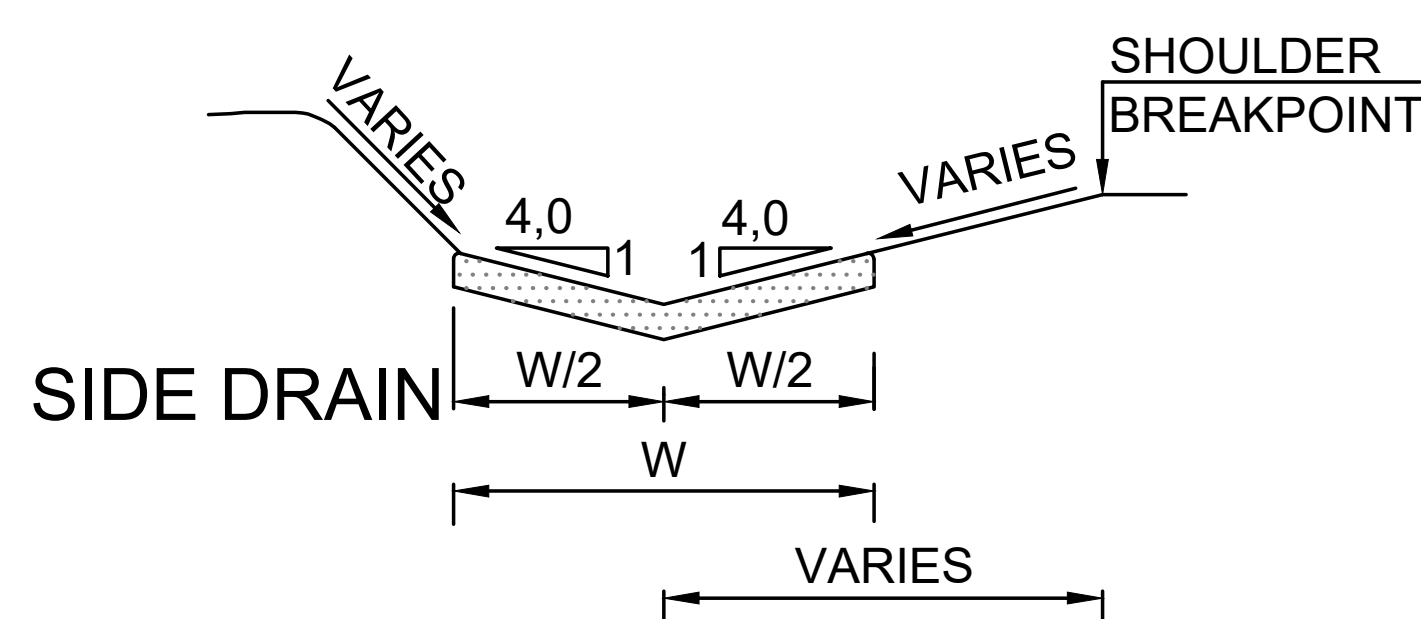
N.T.S.

W	W/2	W/8	W/8+D	D UNREINFORCED	D REINFORCED
1000	500	125	250	125	100
1500	750	188	313	125	100
2000	1000	250	400	150	100
2500	1250	313	463	150	100

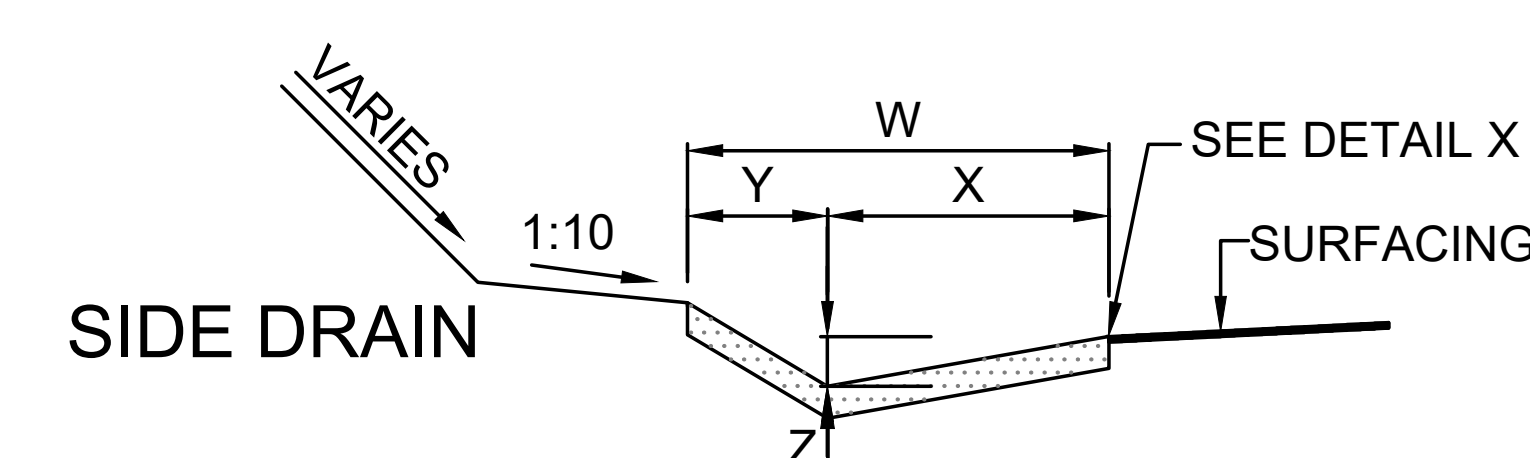
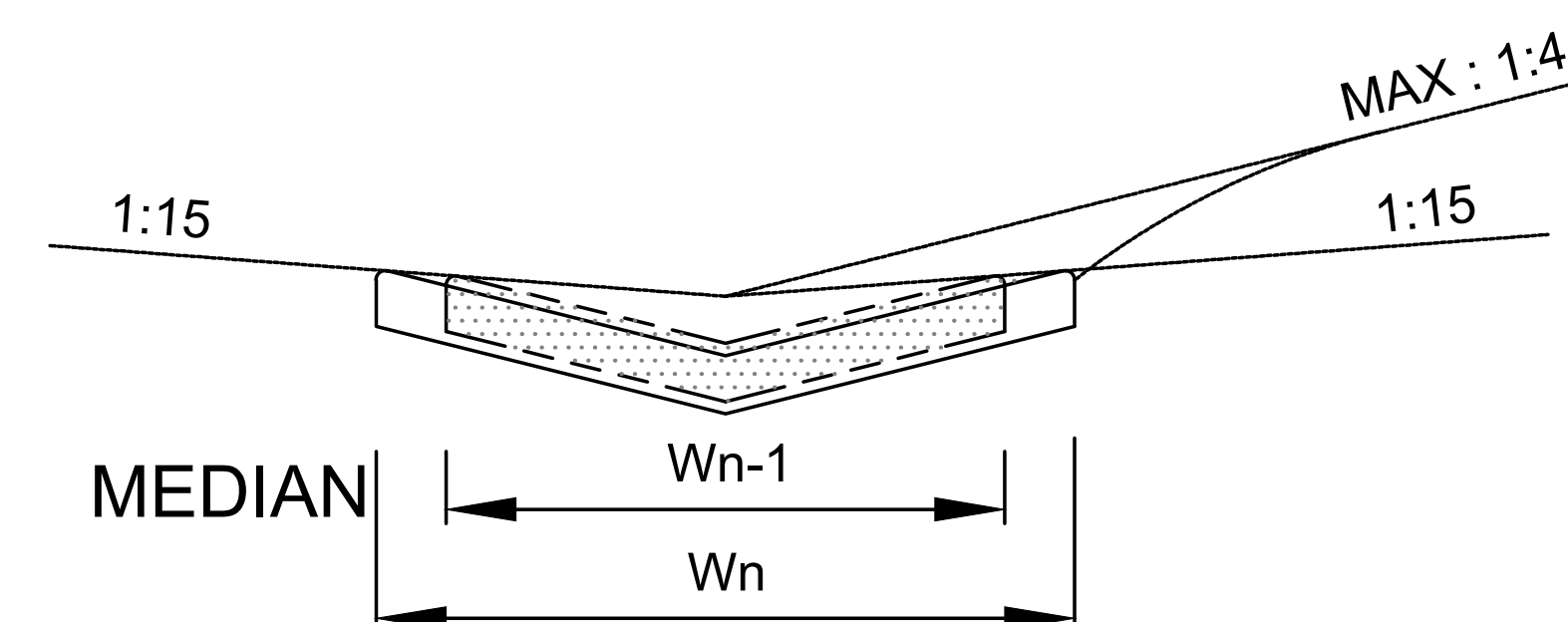
DIMENSIONS OF TYPE 'E' CONCRETE CHANNELS

W	X	Y	Z	D UNREINFORCED	D REINFORCED
1000	670	330	110	125	100
1500	1000	500	170	125	100
2000	1330	670	220	150	100
2500	1670	830	280	150	100

DIMENSIONS OF TYPE 'F' CONCRETE CHANNELS



POSITION OF TYPE 'E' CONCRETE CHANNEL



POSITION OF TYPE 'F'  
CONCRETE CHANNEL

#### NOTES :

- ALL CONCRETE CHANNELS AND OTHER DRAINAGE STRUCTURES ON THIS PLAN TO BE CAST USING CLASS 30/19 CONCRETE.
- TYPES 'E' AND 'F' CONCRETE MUST BE CAST IN ALTERNATIVE LENGTHS OF 2.0m MAXIMUM WITH EXPANSION JOINTS EVERY 5th PANEL (10 m)
- ALL EXPOSED CORNERS MUST BE ROUNDED OFF TO A MINIMUM RADIUS OF 10mm.
- THE TYPE OF SURFACE FINISH IS INDICATED AS F1 & U2.  
F - FORMED SURFACES  
U - UNFORMED SURFACES
- PRECAST KERBING FIG. 5 & FIG. 7 REFER SANS. 927

CONSTRUCTION RECORD (AS-BUILT)				DESIGNED BY				CONSULTANT APPROVAL				HEAD OFFICE				EASTERN REGION				PROJECT DESCRIPTION				PROJECT NUMBER			
WORKS CONTRACT ENGINEER				NAME				Name:				48 Tambotie Avenue				58 van Eck Place				PERIODIC MAINTENANCE ON NATIONAL ROUTE 2 SECTION 21X				1. N.002-210-2022-1/F			
Name:				Prof. Reg. No.				Name:				Val de Grace				Pietmaritzburg				FROM HARDING (KM 60.1) TO IZINGOLWENI (KM 102.0)				DRAWING LOCATION DATA			
Date:				CHECKED BY				Date:				Pretoria				3201				ROUTE				START			
SANRAL PROJECT MANAGER				NAME				Name:				PO Box 415				Scottsville				SECTION				N2			
Name:				Prof. Reg. No.				Name:				Pretoria 0001				South Africa				DRAWING TYPE				21X			
Date:				DRAWN BY				Name:				Tel: (012) 844 8000				Tel: (033) 392 8100				DESCRIPTION				44.3			
No.				DATE				DATE				Date:				Date:				ROAD SURFACE DRAINAGE				60.1			
REVISION				CONSULT. ENG.				SIGN :				DATE :				DATE :				TYPICAL DRAIN DETAILS				SHEET 1 OF 7			
																				SHEET 1 OF 7				D812/2781/T			
																				SCALE : AS SHOWN				SANRAL DOCUMENT #			