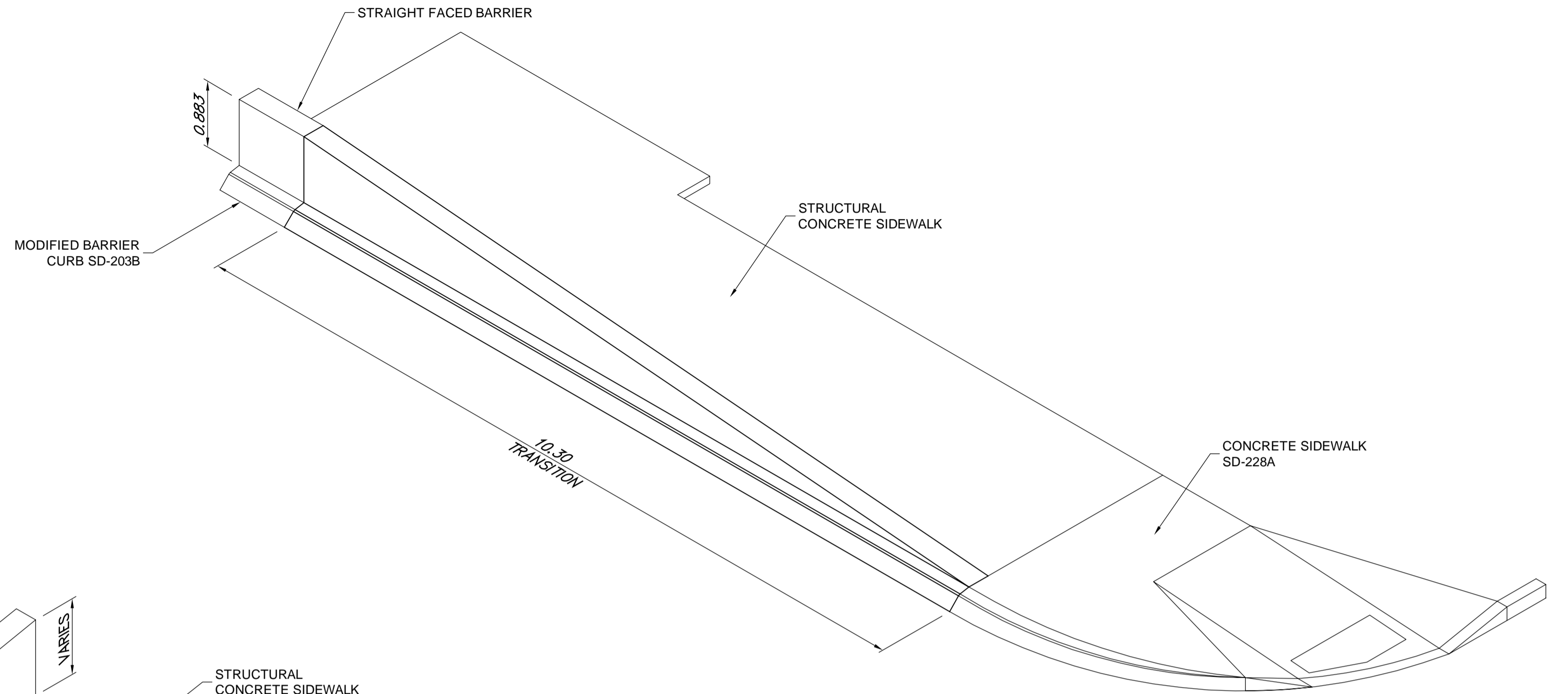
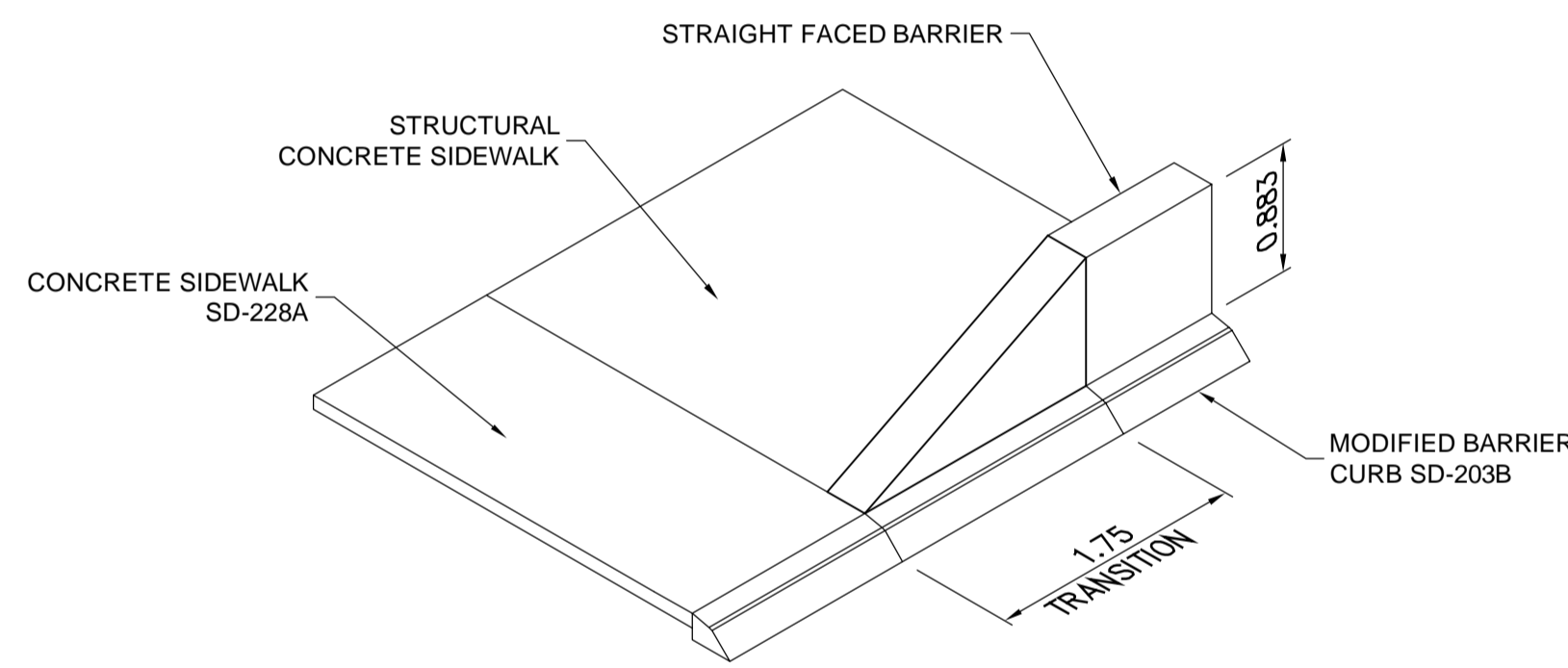


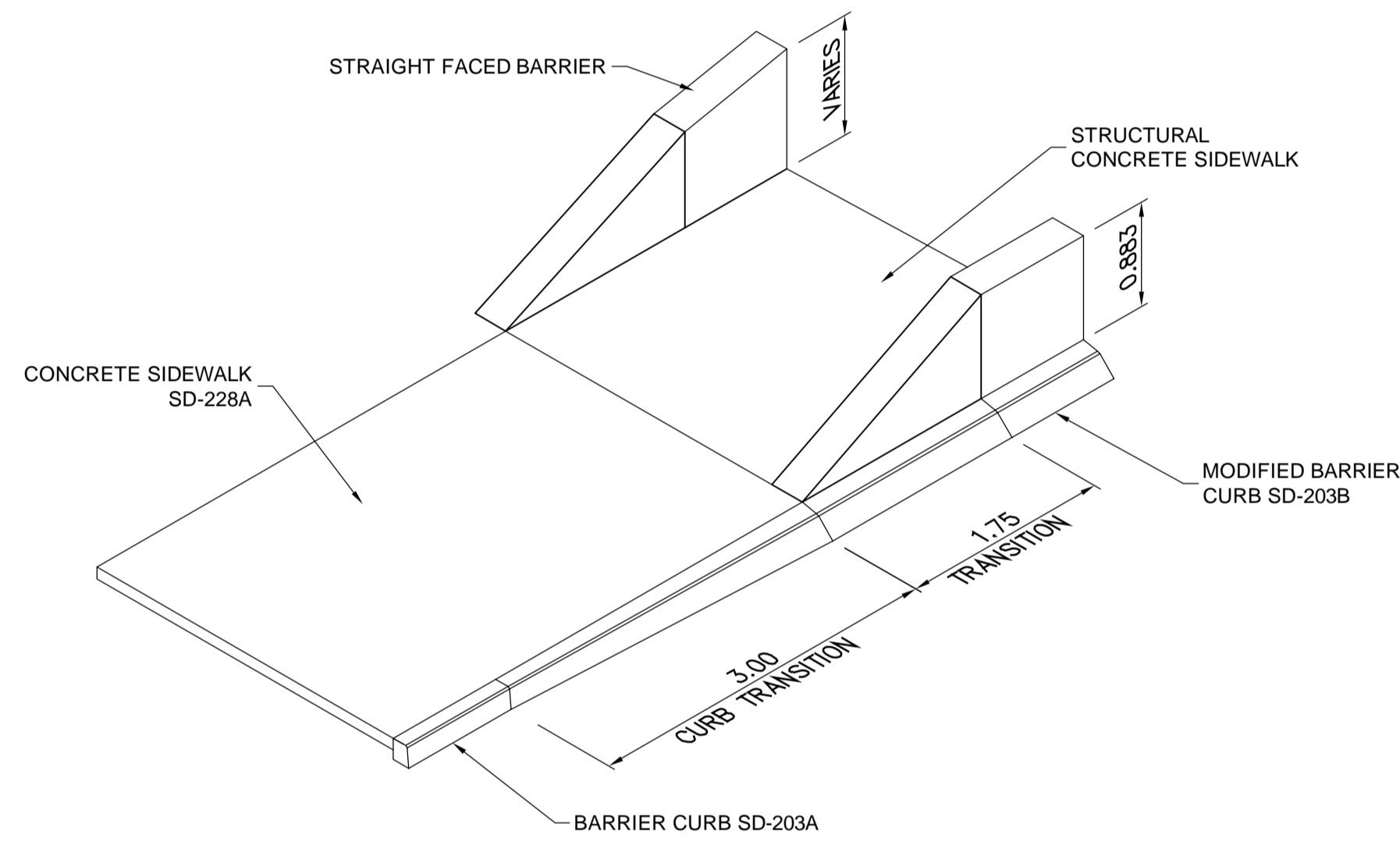
1 SAFETY TO BARRIER MEDIAN TRANSITION
 SCALE: 1:50



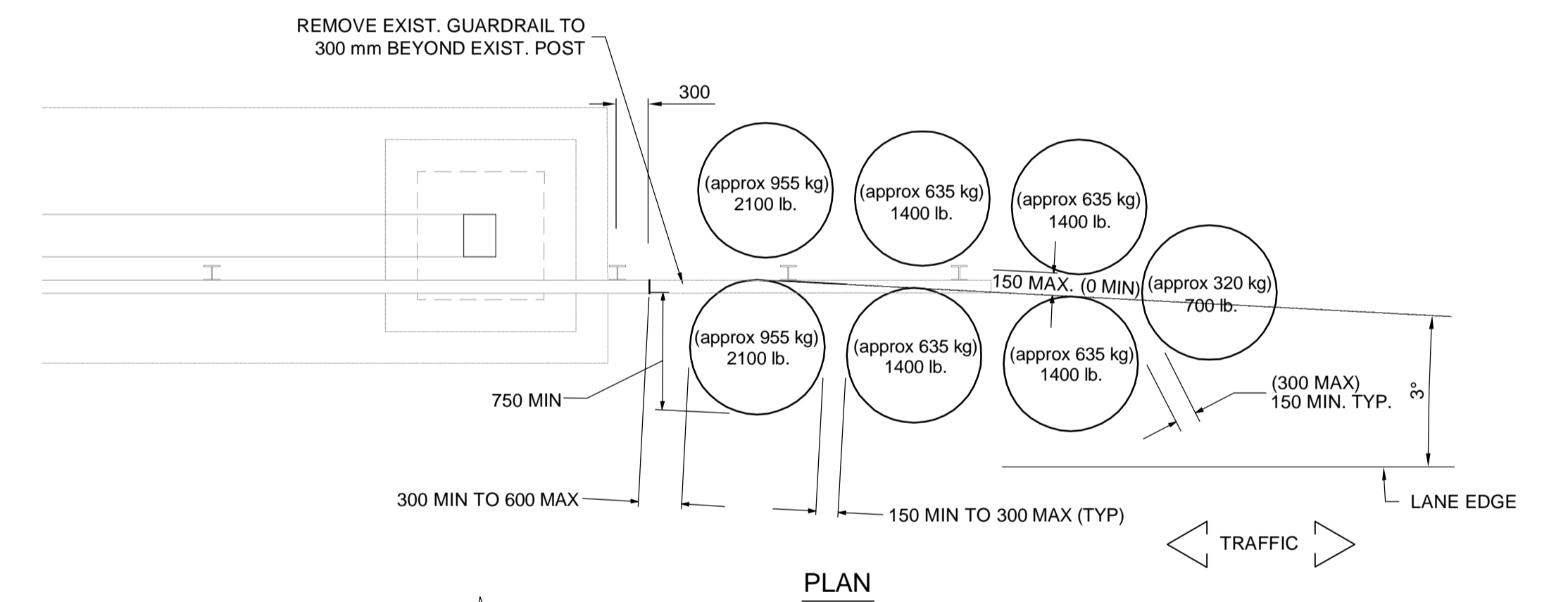
2 STRAIGHT FACED BARRIER TRANSITION - TYPE 1
 SCALE: 1:50



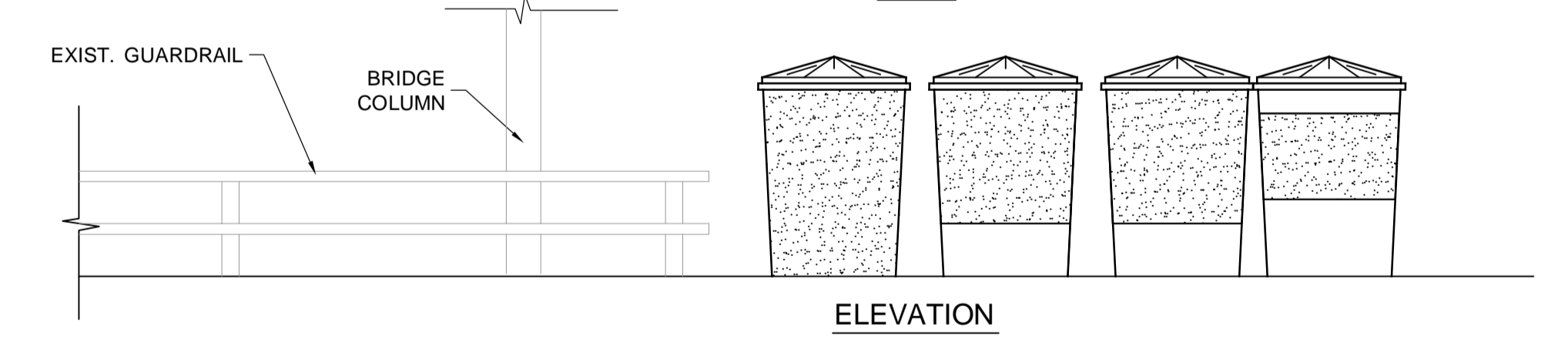
3 STRAIGHT FACED BARRIER TRANSITION - TYPE 2
 SCALE: 1:50



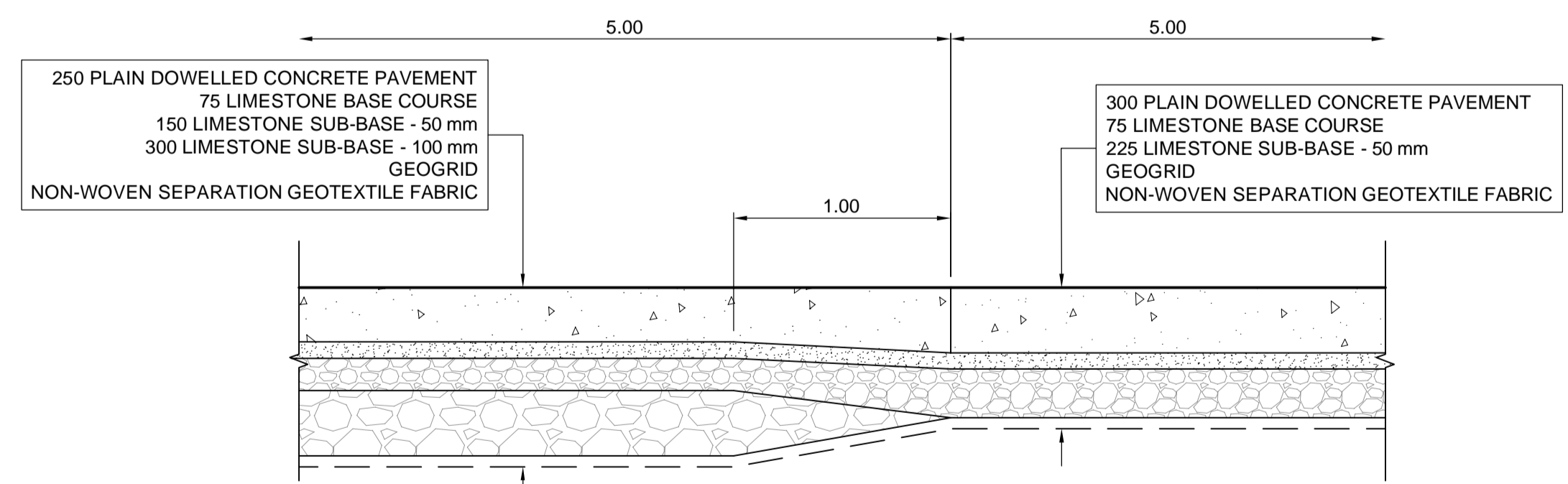
4 STRAIGHT FACED BARRIER TRANSITION - TYPE 3
 SCALE: 1:50



6 SAND FILLED BARRELS
 SCALE: 1:50



ELEVATION



5 CONCRETE PAVEMENT STRUCTURE TRANSITION
 SCALE: 1:25

DESIGN CALCULATIONS FOR A POSTED VELOCITY OF 50 km/h (SEE NOTE)

ROW	SAND WEIGHT (lbs.)	816.5 kg CAR		2041.2 kg TRUCK	
		EXIT VEL (km/h)	AVG G'S FOR ROW	EXIT VEL (km/h)	AVG G'S FOR ROW
0	-	50.00	-	50.00	-
1	700	35.98	5.18	43.26	2.70
2	2800	14.06	4.72	26.64	4.99
3	2800	5.50	0.72	16.41	1.89
4	4200	1.65	0.12	8.48	0.85

NOTE: THE DESIGN CALCULATIONS APPLY ONLY FOR A FRONTAL IMPACT IN EITHER A UNIDIRECTIONAL OR BIDIRECTIONAL LAYOUT.

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UNDERGROUND STRUCTURES SUPPLY U/G STRUCTURES DATE	B.M. ELEV.	DESIGNED BY RTP DRAWN BY TJH CHECKED BY TS APPROVED BY TJP		ENGINEER'S SEAL 	<p>THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT</p>	CITY DRAWING NUMBER P-3492-2018-CT-021 SHEET 021 OF 021 CONSULTANT DRAWING NUMBER CT-021
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.		HOR. SCALE AS NOTED VERTICAL AS NOTED	RELEASED FOR CONSTRUCTION DATE	CONSULTANT PROJECT NUMBER 17-6152	<p>DETAILS</p>	