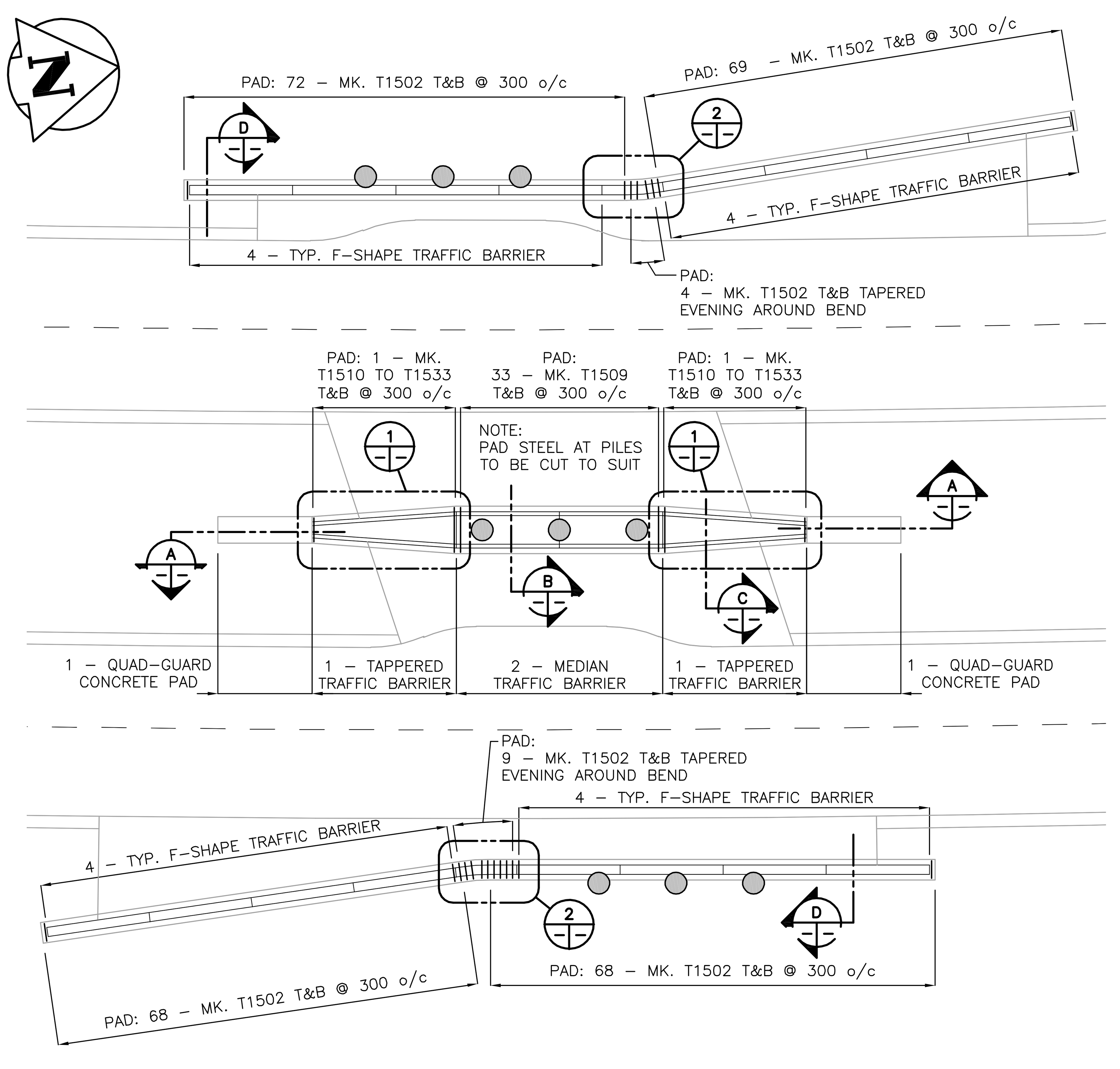
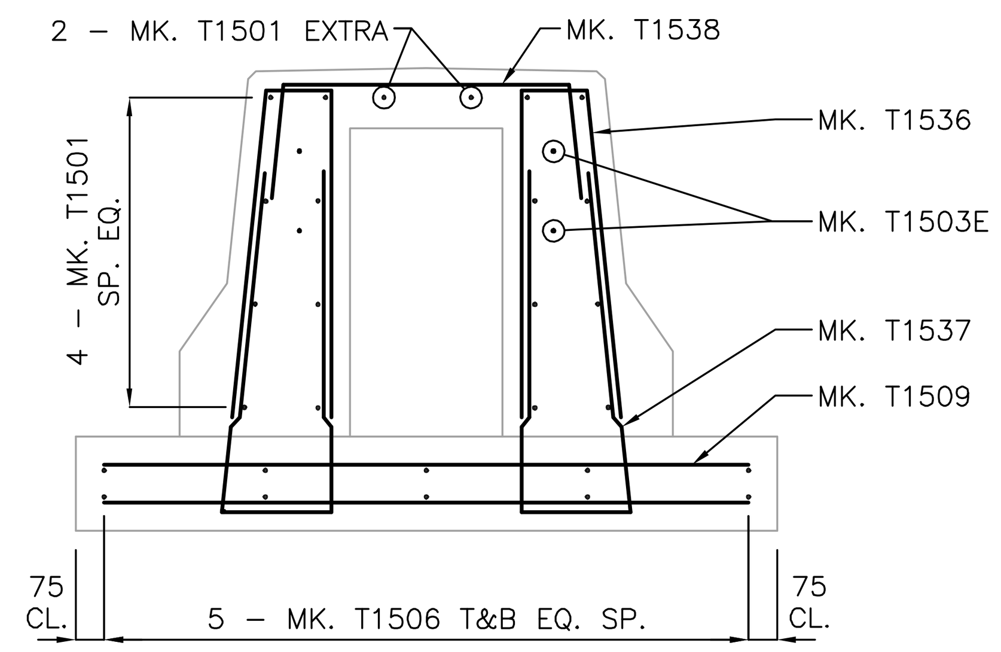
KU-32-665



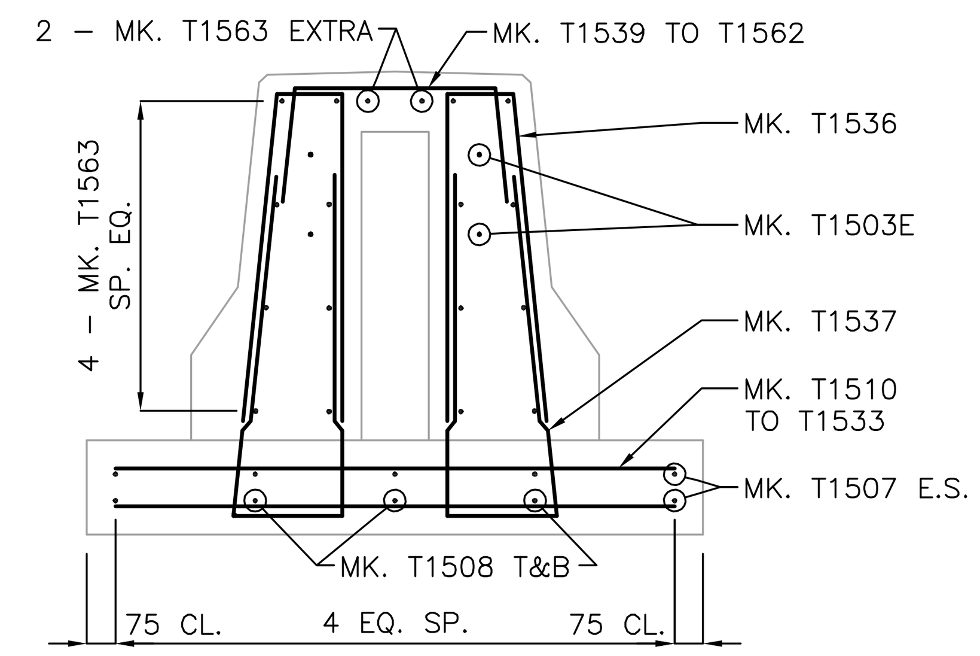
TRAFFIC BARRIER BASE PAD LAYOUT

1:200 0 2 6 10m



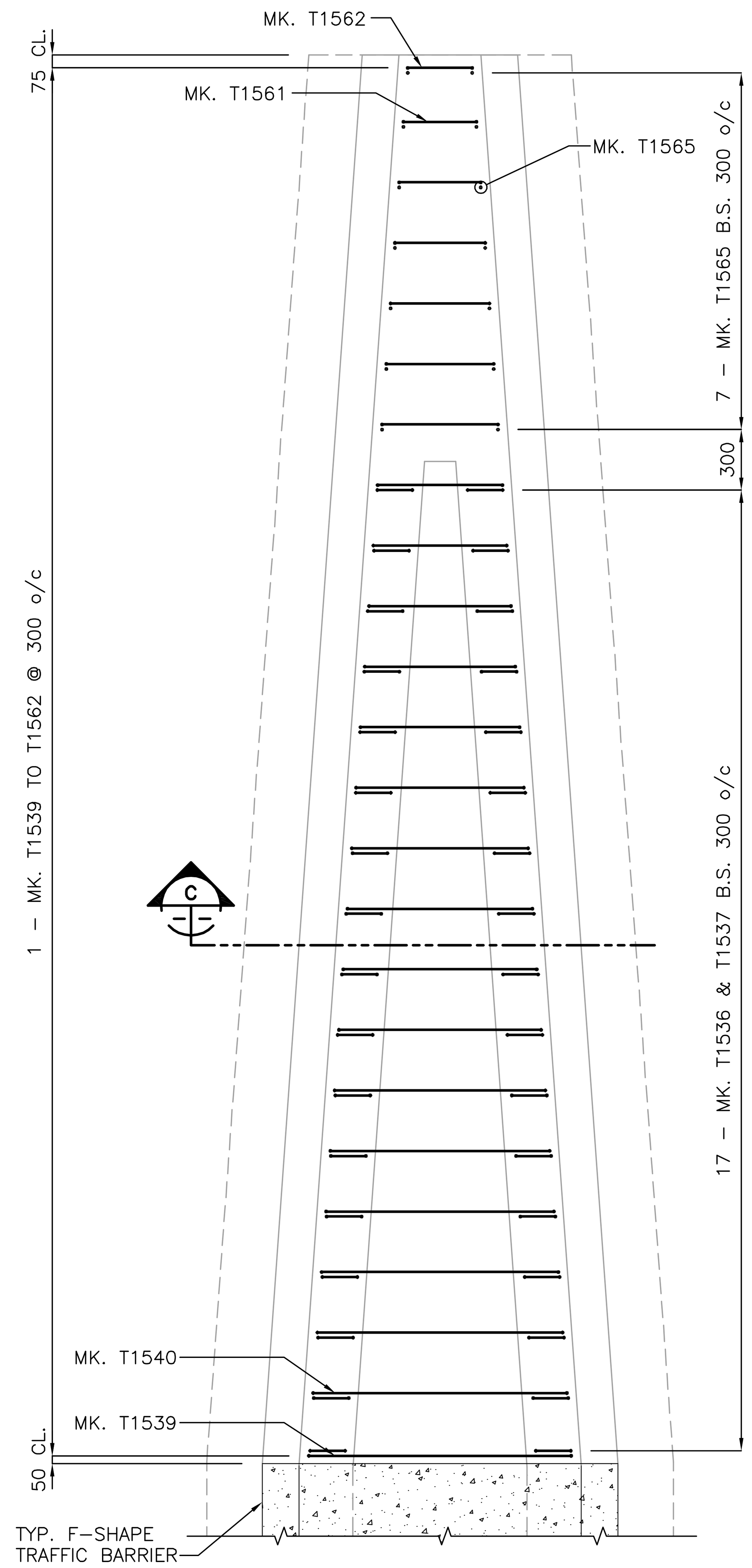
B SECTION

1:20 0 200 600 1000mm



C SECTION

1:20 0 200 600 1000mm



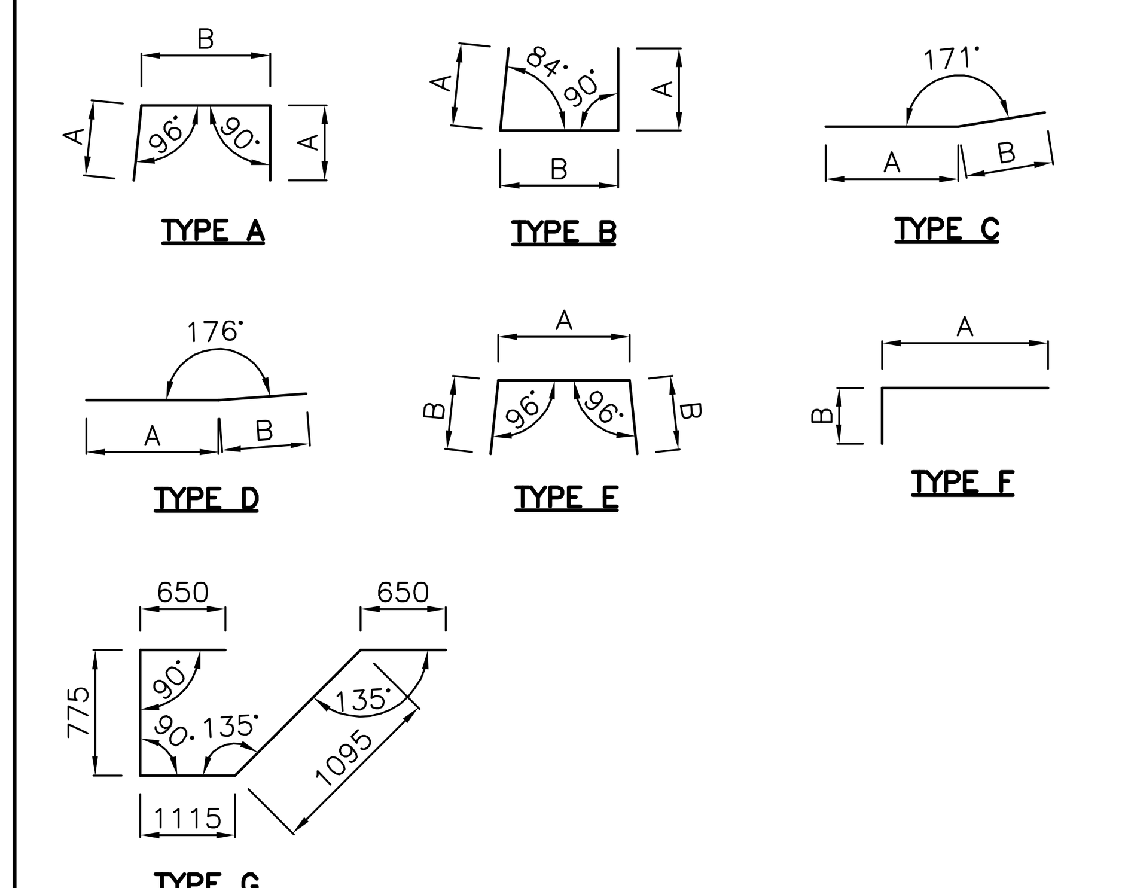
1 TAPPERED TRAFFIC BARRIER DETAIL

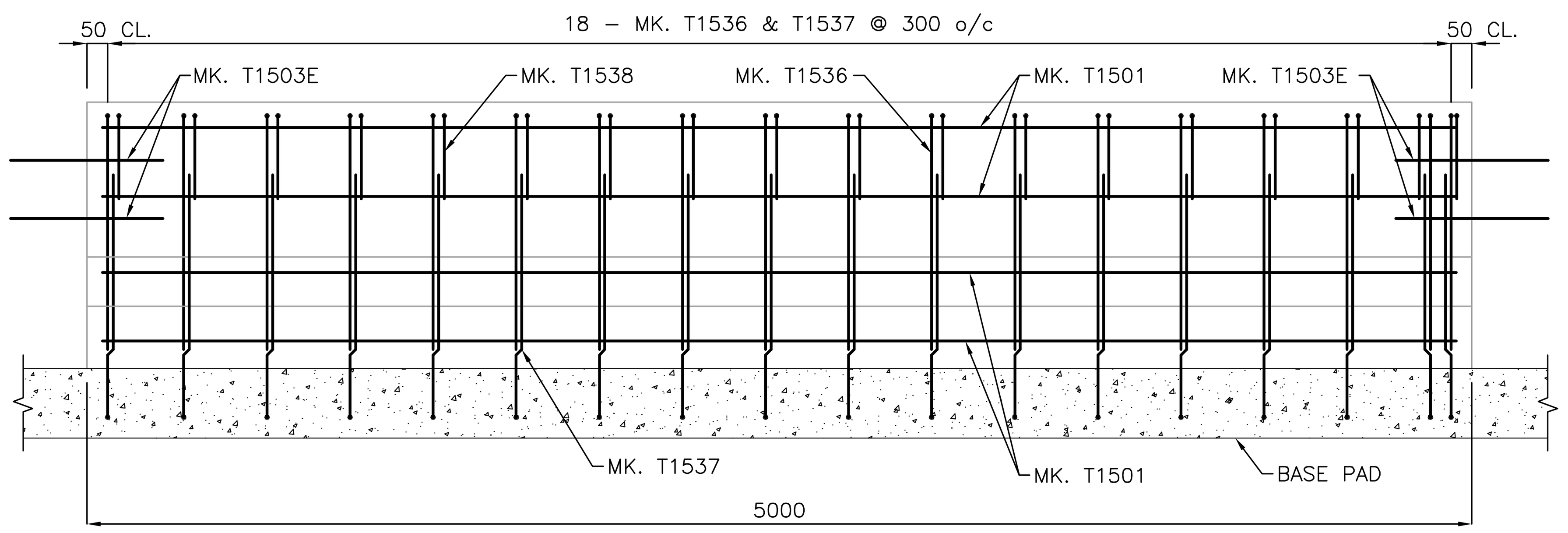
1:25 0 250 750 1250mm

BILL OF REINFORCING STEEL FOR F-SHAPE TRAFFIC BARRIERS

STRAIGHT BARS				BENT BARS							
MARK	QTY.	LENGTH (mm)	MASS (kg)	MARK	QTY.	TYPE	A	B	C	LENGTH (mm)	MASS (kg)
T1501	160	4850	1218.3	T1505	20	C	4900	3900		8800	276.3
T1502	580	850	774.0	T1507	8	D	6900	650		7550	94.8
T1503E	44	550	38.0	T1536	450	A	875	285	875	2035	1437.7
T1504	40	18000	1130.4	T1537	450	B	865	170	865	1900	1342.4
T1506	10	10000	157.0	T1538	36	E	1300	300		1900	107.4
T1508	12	7550	142.2	T1539	2	E	1300	300		1900	6.0
T1509	66	2155	223.3	T1540	2	E	1260	300		1860	5.8
T1510	4	2155	13.5	T1541	2	E	1215	300		1815	5.7
T1511	4	2110	13.3	T1542	2	E	1175	300		1775	5.6
T1512	4	2070	13.0	T1543	2	E	1130	300		1730	5.4
T1513	4	2025	12.7	T1544	2	E	1085	300		1685	5.3
T1514	4	1980	12.4	T1545	2	E	1045	300		1645	5.2
T1515	4	1940	12.2	T1546	2	E	1000	300		1600	5.0
T1516	4	1895	11.9	T1547	2	E	960	300		1560	4.9
T1517	4	1850	11.6	T1548	2	E	915	300		1515	4.8
T1518	4	1800	11.3	T1549	2	E	875	300		1475	4.6
T1519	4	1765	11.1	T1550	2	E	830	300		1430	4.5
T1520	4	1720	10.8	T1551	2	E	790	300		1390	4.4
T1521	4	1675	10.5	T1552	2	E	745	300		1345	4.2
T1522	4	1635	10.3	T1553	2	E	700	300		1300	4.1
T1523	4	1590	10.0	T1554	2	E	660	300		1260	4.0
T1524	4	1545	9.7	T1555	2	E	620	300		1220	3.8
T1525	4	1505	9.5	T1556	2	E	575	865		2305	7.2
T1526	4	1460	9.2	T1557	2	E	535	865		2265	7.1
T1527	4	1415	8.9	T1558	2	E	490	865		2220	7.0
T1528	4	1375	8.6	T1559	2	E	450	865		2180	6.8
T1529	4	1330	8.4	T1560	2	E	405	865		2135	6.7
T1530	4	1285	8.1	T1561	2	E	360	865		2090	6.6
T1531	4	1240	7.8	T1562	2	E	320	865		2050	6.4
T1532	4	1200	7.5	T1564	16	C	1920	920		2840	71.3
T1533	4	1155	7.3	T1565	28	F	875	300		1175	51.7
T1534	64	1150	115.6								
T1535	20	4470	140.4								
T1563	32	6910	347.2								

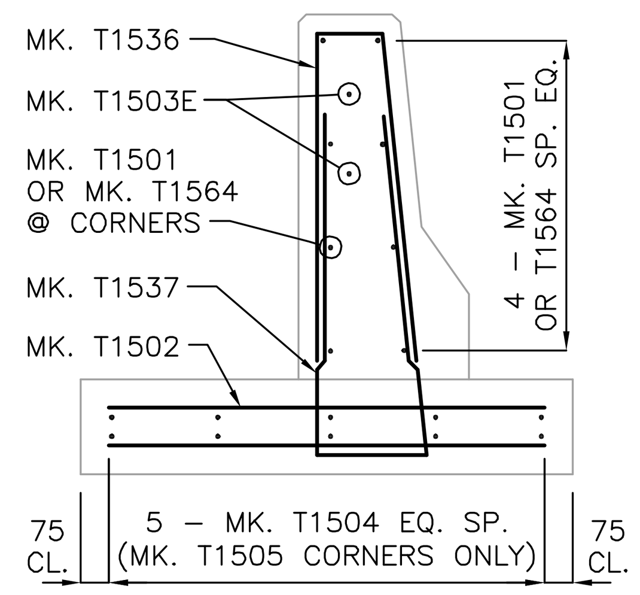
TOTAL MASS OF REINFORCING STEEL (kg.) = 7430.6





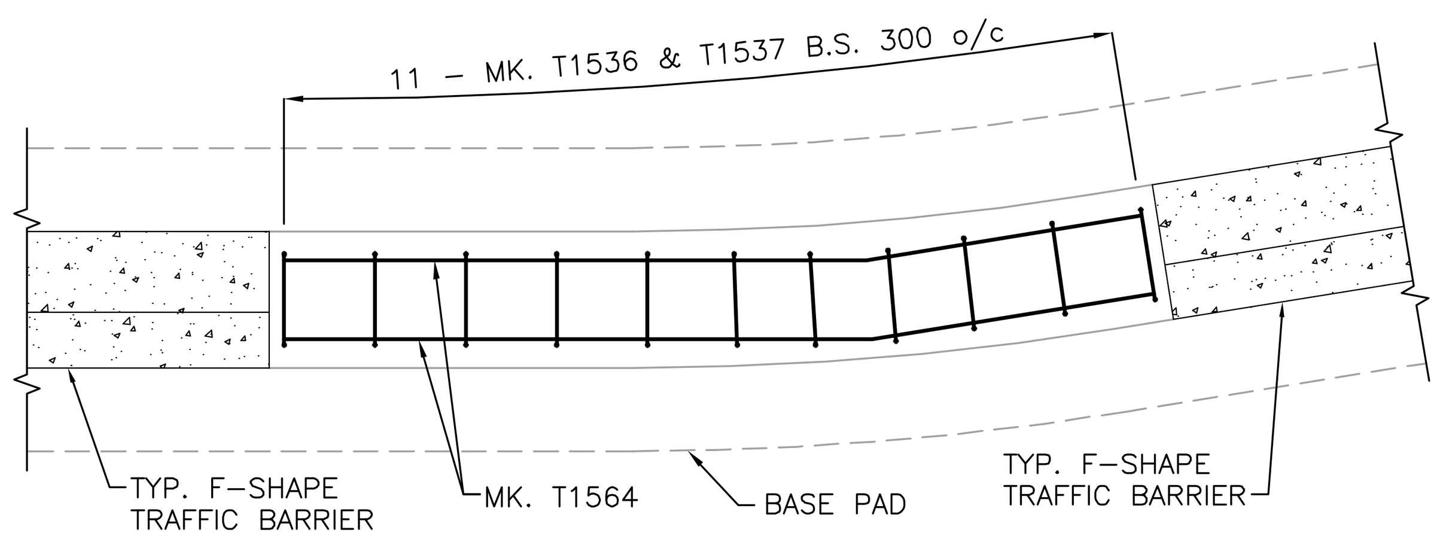
ELEV. OF TYP. F-SHAPE BARRIER

1:20 0 200 600 1000mm



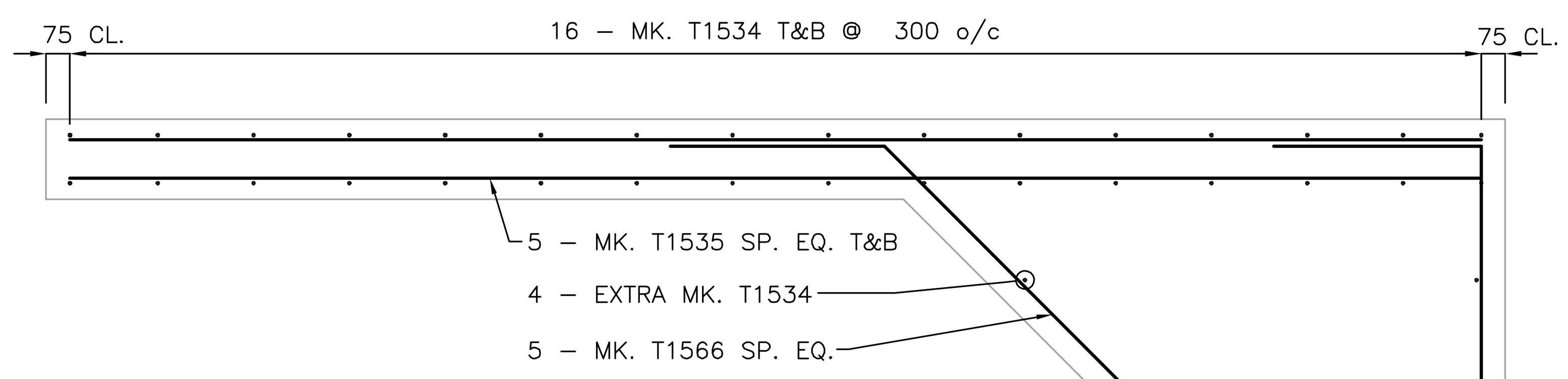
D SECTION

1:20 0 200 600 1000mm



2 DETAIL AT CORNER

1:25 0 250 750 1250mm



A SECTION

1:20 0 200 600 1000mm

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

APEGM
Certificate of Authorization
Stantec Consulting Ltd.
No. 1301 Expiry: April 30, 2006

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE — DATE

NOTE:
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.

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	06.03.03	MJB

Stantec Consulting Ltd.
905 Waverley Street, Winnipeg, Manitoba
Tel 204-489-5900 Fax 204-453-9012

DESIGNED BY: MJB, KSA
CHECKED BY: GWM
DRAWN BY: JMB
APPROVED BY: MJB
HOR. SCALE: AS SHOWN
VERTICAL: AS SHOWN
AUTHORIZED BY: R. FINGAS — DATE 06.03.03
R. FINGAS, P. ENG.
BRIDGE PROJECTS ENGINEER
DATE 05.11.09

ENGINEER'S SEAL
ORIGINAL SEALED BY M.J.BOISSONNEAULT P. ENG. 06.03.03

CONSULTANT DRAWING NO.
113703042-S28

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

KENASTON UNDERPASS PROJECT
KENASTON BOULEVARD RECONSTRUCTION

KENASTON BOULEVARD
CONCRETE TRAFFIC BARRIER
REINFORCING DETAILS

SHEET 32 OF 52

CAD FILE DRAWING NUMBER
ku-32-665.dwg

CITY DRAWING NUMBER
P-3258-203

V:\1137\active\113703042 – Kenaston UP DESIGN\ACAD\CONTRACT 6 – Underpass etc\Bridge Finish\060223 – Tender Drawing\KU-32-665.dwg
2006-03-03 02:29PM By: jbeernaerts