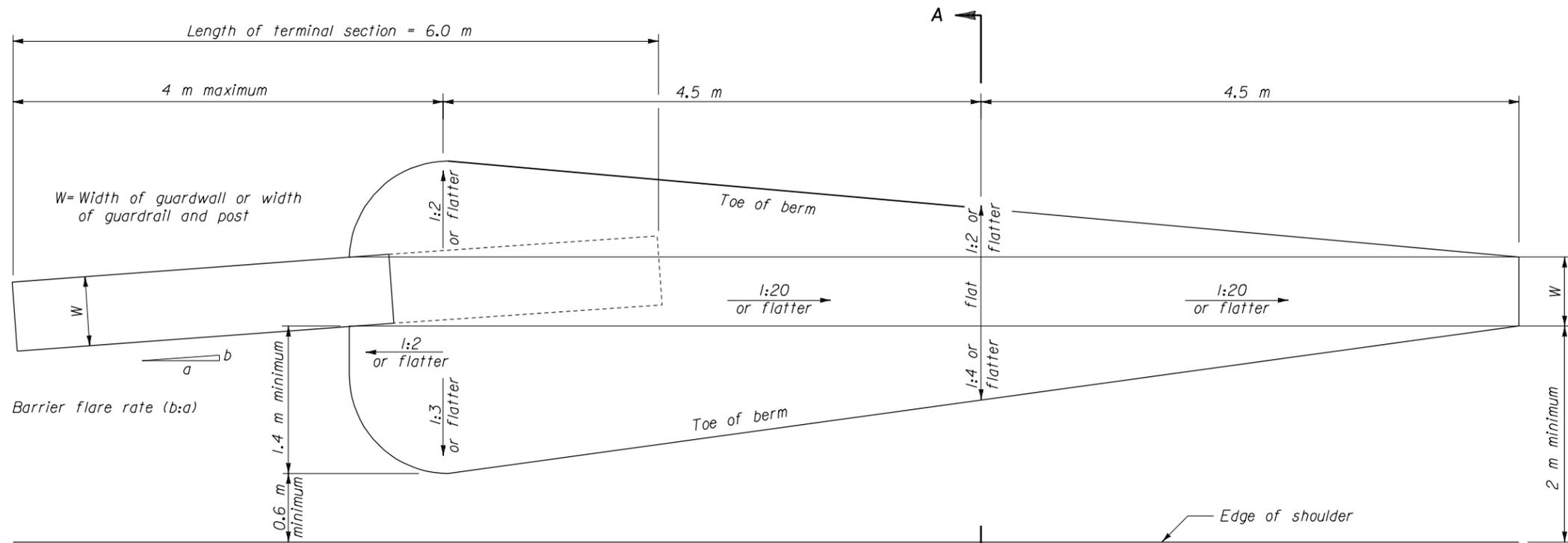


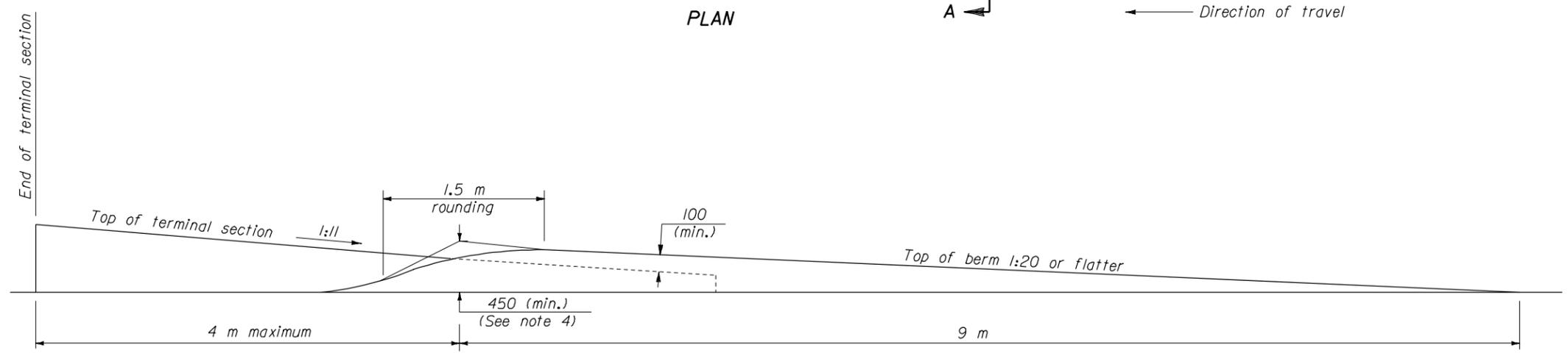
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS

NOTES:

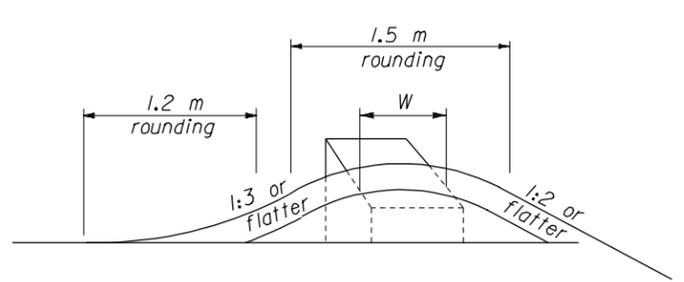
1. Unless otherwise shown, dimensions are in millimeters.
2. Vary the actual dimensions of the berm according to the variable dimensions shown and as directed.
3. See Standards M617-61, M618-3, and M620-2 for details of specified roadside barrier and terminal section.
4. If the taper on the top of the terminal section is steeper than 1:11 the minimum height of the berm is 600 mm.



PLAN



ELEVATION



SECTION A-A

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY OFFICE	
METRIC STANDARD	
EARTH BERM FOR ROADSIDE BARRIER TERMINAL SECTIONS	
STANDARD APPROVED FOR USE 03/96	STANDARD
REVISED: 8/97 7/98	M204-1

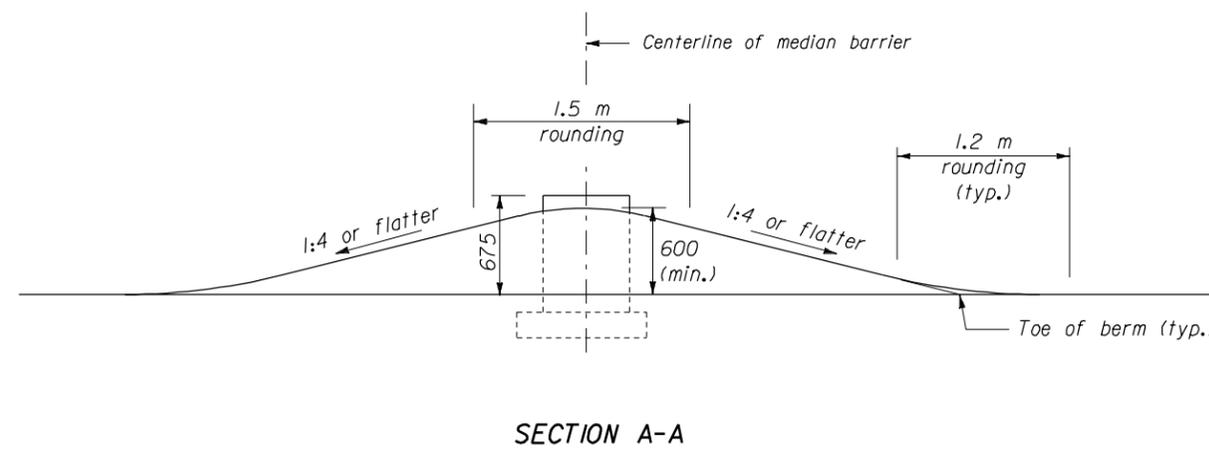
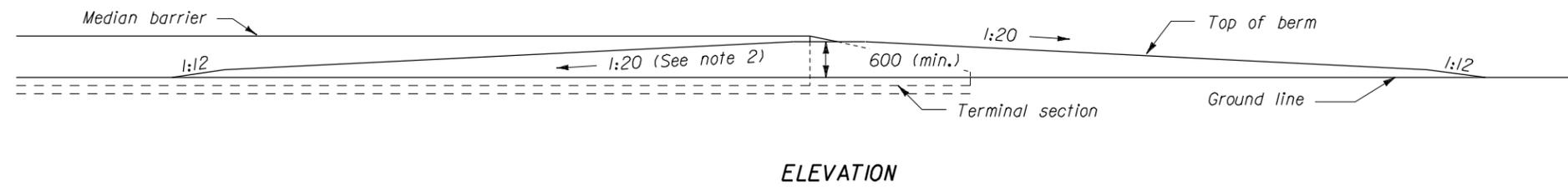
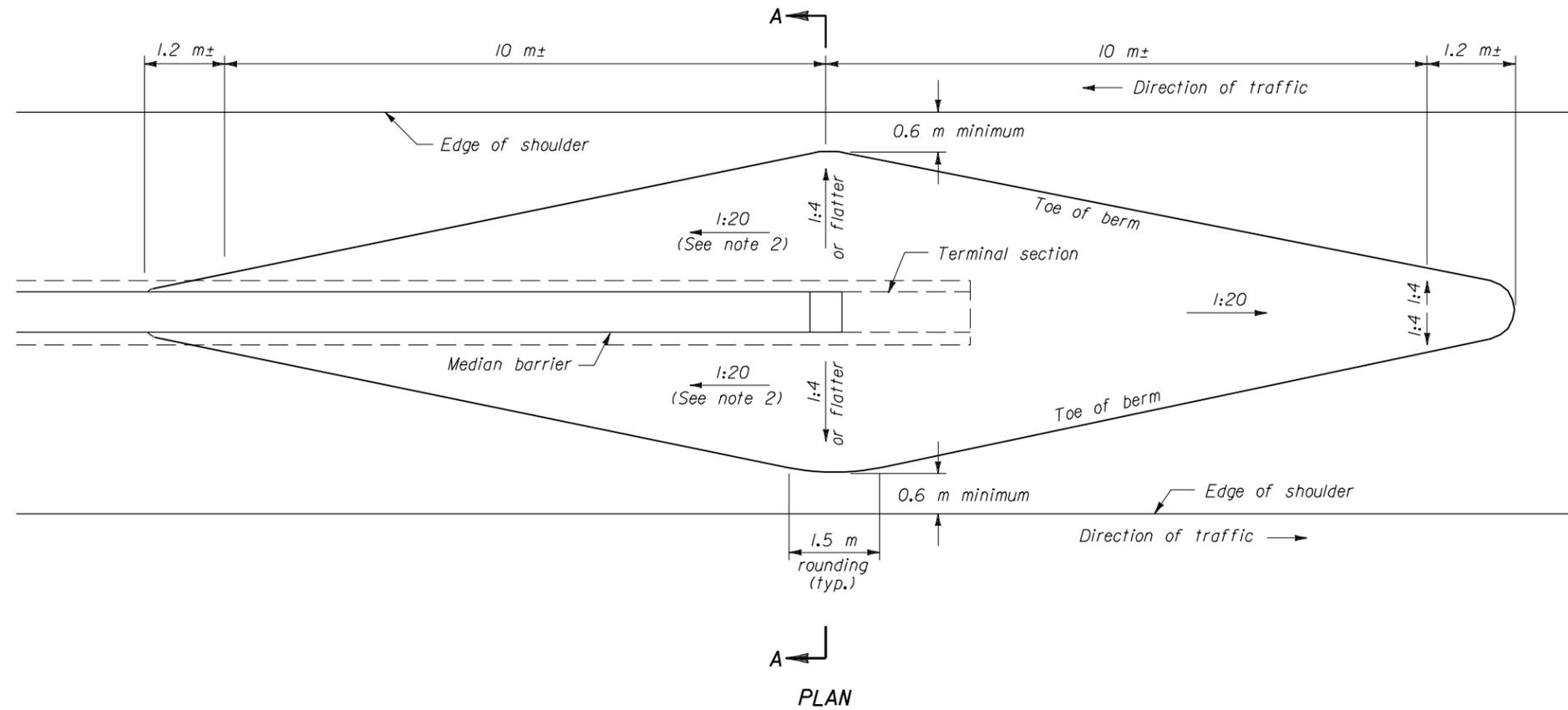
NO SCALE

26 FEB 99 07:39:09 I:\usr\damon\barrier\stone\mst20401.dgn

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS

NOTES:

1. Unless otherwise shown, dimensions are in millimeters.
2. The 1:20 slope is the desired slope. The slope may be adjusted to meet field conditions as directed, (maximum slope 1:6).
3. See Standards M618-3 and M620-2 for details of specified roadside barrier and terminal section.

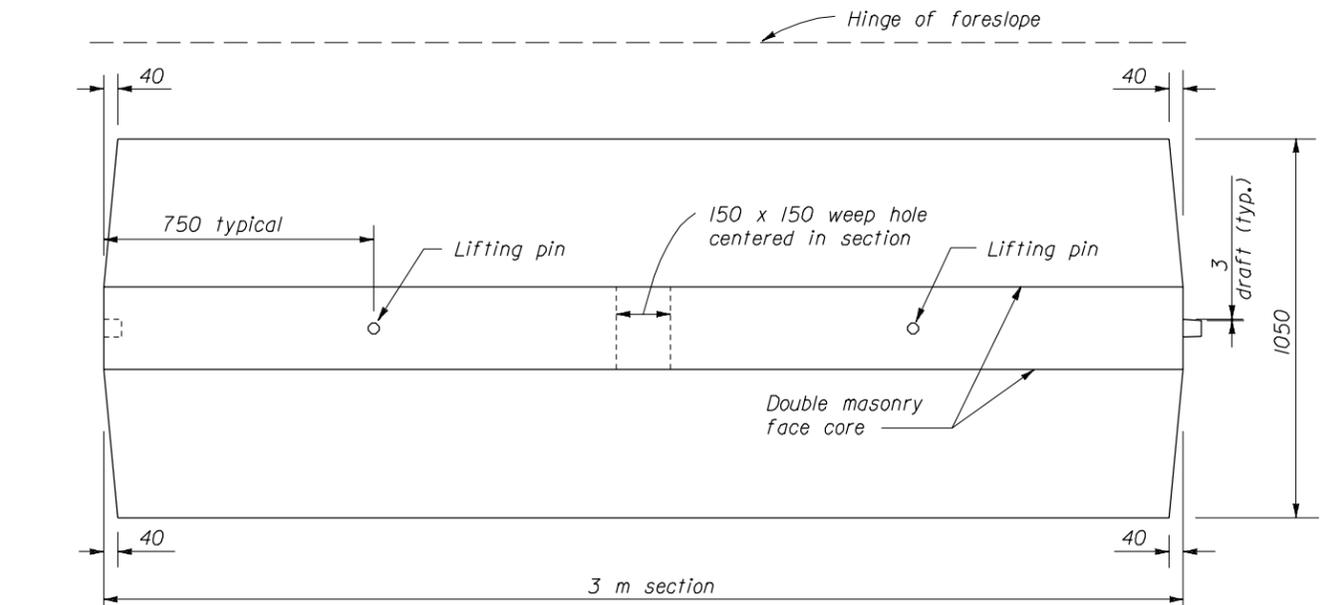


NO SCALE

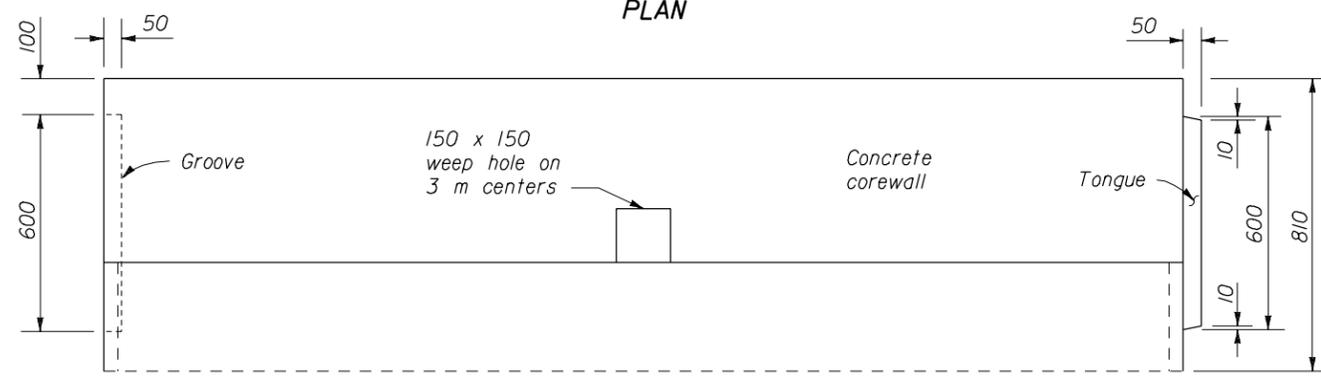
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY OFFICE	
METRIC STANDARD	
EARTH BERM FOR MEDIAN BARRIER TERMINAL SECTIONS	
STANDARD APPROVED FOR USE 03/96	STANDARD
REVISED: 7/98	M204-2

26 FEB 99 07:39:56 I:\usr\damon\barrier\stone\mst20402.dgn

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS

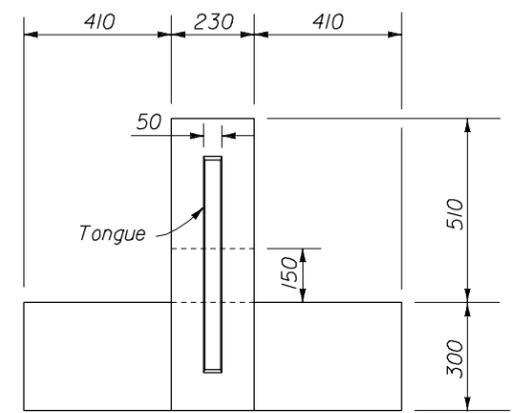


PLAN

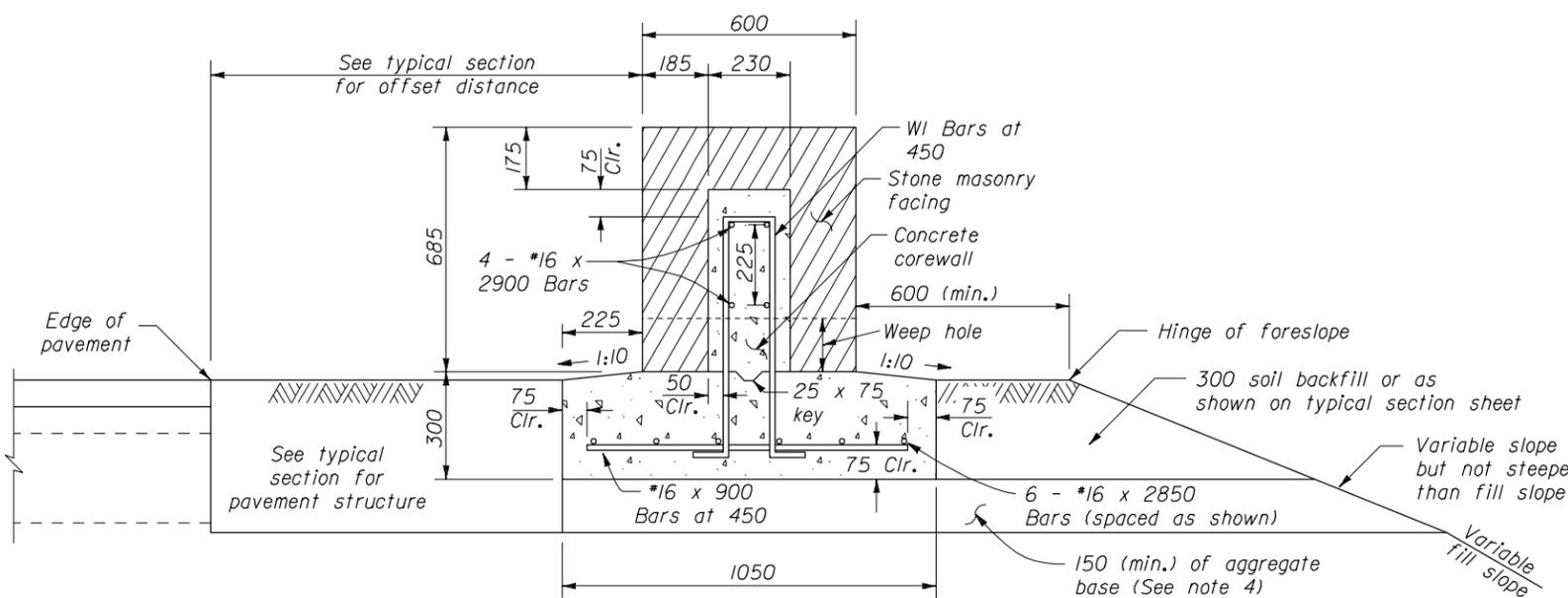


ELEVATION

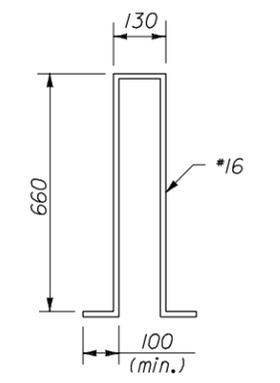
PRECAST CONCRETE COREWALL



END VIEW



TYPICAL GUARDWALL CROSS SECTION



#16 BAR
BENDING DIAGRAM

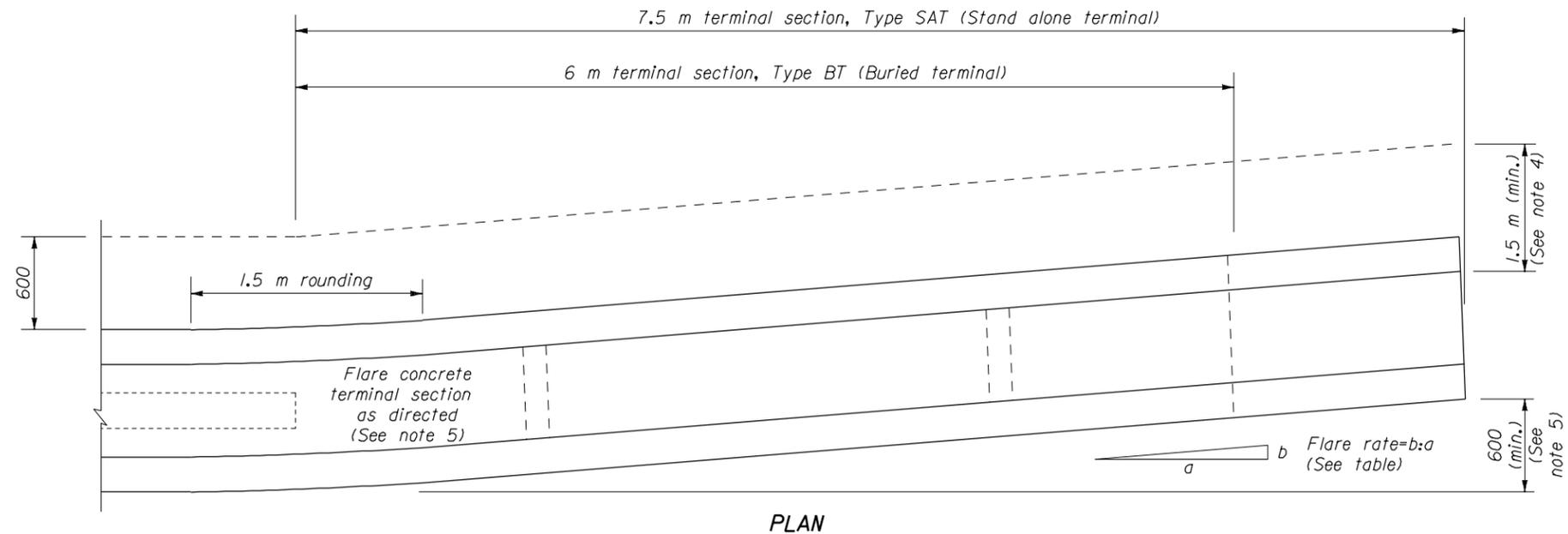
- NOTES:
1. Unless otherwise shown, dimensions are in millimeters.
 2. Form construction joints in the corewall at 9 m intervals or, at the option of the Contractor, the corewall may be constructed of precast concrete units.
 3. On curves with radius less than 50 m, the corewall is to be cast-in-place.
 4. The depth of base may be less than 150 mm as directed by the CO, when the foundation is on either rock fill or solid rock.
 5. Set galvanized metal slots with anchors for the stone work or other approved type of metal anchors in the concrete. Equivalent attachment systems are allowed with the approval of the CO.

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY OFFICE	
METRIC STANDARD	
STONE MASONRY GUARDWALL	
STANDARD APPROVED FOR USE 03/96	STANDARD
REVISED: 12/96 7/98	M620-1

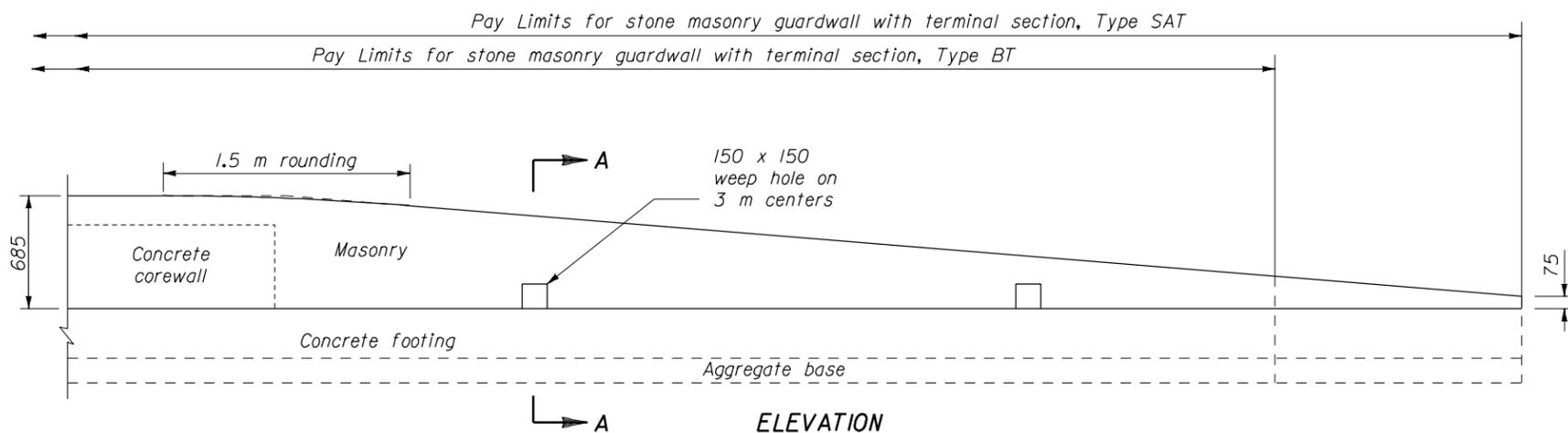
NO SCALE

26 FEB 99 07:40:49 I:\usr\damon\barrier\stone\mst62001.dgn

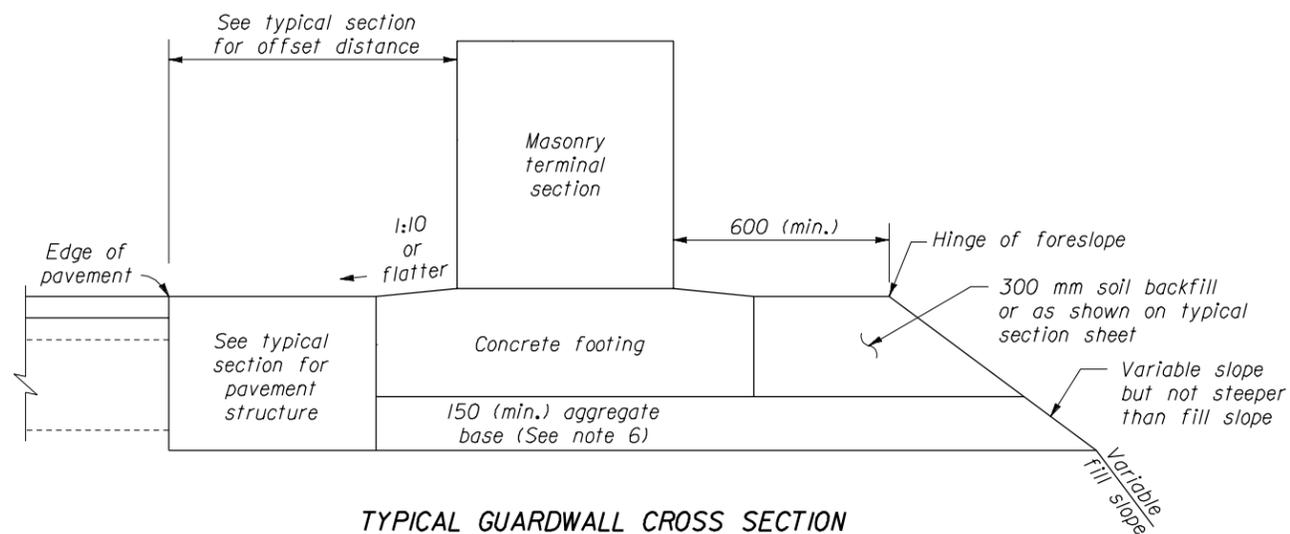
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS



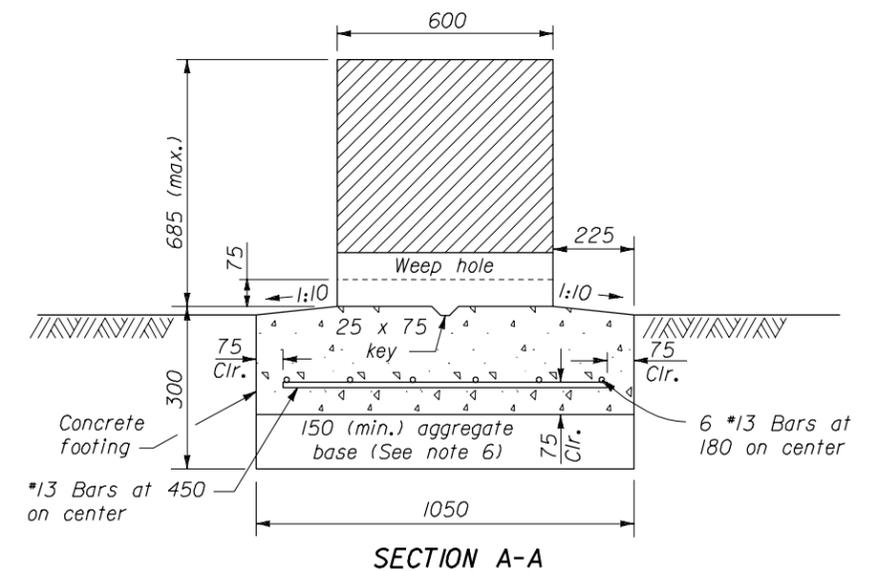
PLAN



ELEVATION



TYPICAL GUARDWALL CROSS SECTION



SECTION A-A

Design Speed (Km/h)	Shy line offset (meters)	Flare rate inside shy line (b:a)	Flare rate outside shy line (b:a)
100	2.5	1:26	1:13
80	2.0	1:21	1:11
60	1.5	1:17	1:9
50 or less	1.0	1:13	1:7

NO SCALE

NOTES:

1. Unless otherwise shown, dimensions are in millimeters.
2. The Type SAT (Stand alone terminal) terminal section or the Type BT (Buried terminal) terminal section to be used as specified.
3. For the Type BT terminal section the last 1.5 m of the Type SAT terminal section is deleted. See Standard M204-1, Earth berm for roadside barrier terminal section, for construction of the earth berm.
4. Extend the fill widening a minimum of 1.5 m behind the guardwall for the Type SAT terminal section, unless otherwise directed.
5. The roadside guardwall flare shown in the plan view is the minimum length and rate required. As directed by the CO, the guardwall should be flared as far as practical from the road at the maximum rate indicated in the Guardwall Flare Rates table.
6. The depth of base may be less than 150 mm as directed by the CO, when the foundation is on either rock fill or solid rock.

26 FEB 99 07:41:44 I:\usr\damon\barrier\stone\mst62002.dgn

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 FEDERAL LANDS HIGHWAY OFFICE

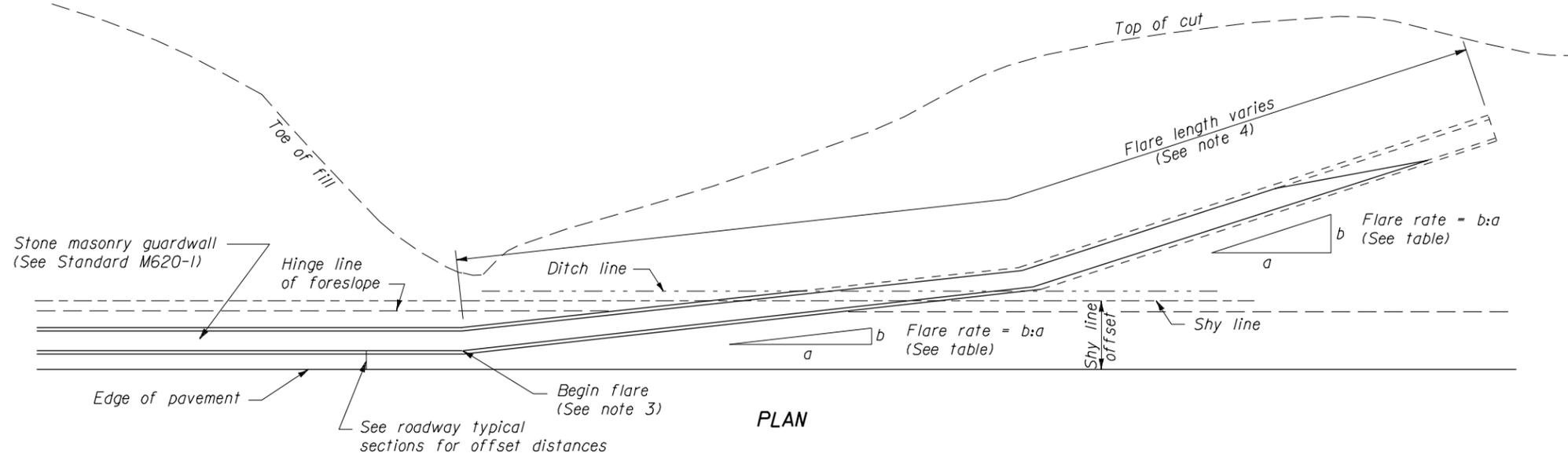
METRIC STANDARD
**STONE MASONRY GUARDWALL
 TERMINAL SECTIONS TYPE SAT
 AND TYPE BT**

STANDARD APPROVED FOR USE 03/96

REVISI: 6/97 7/98

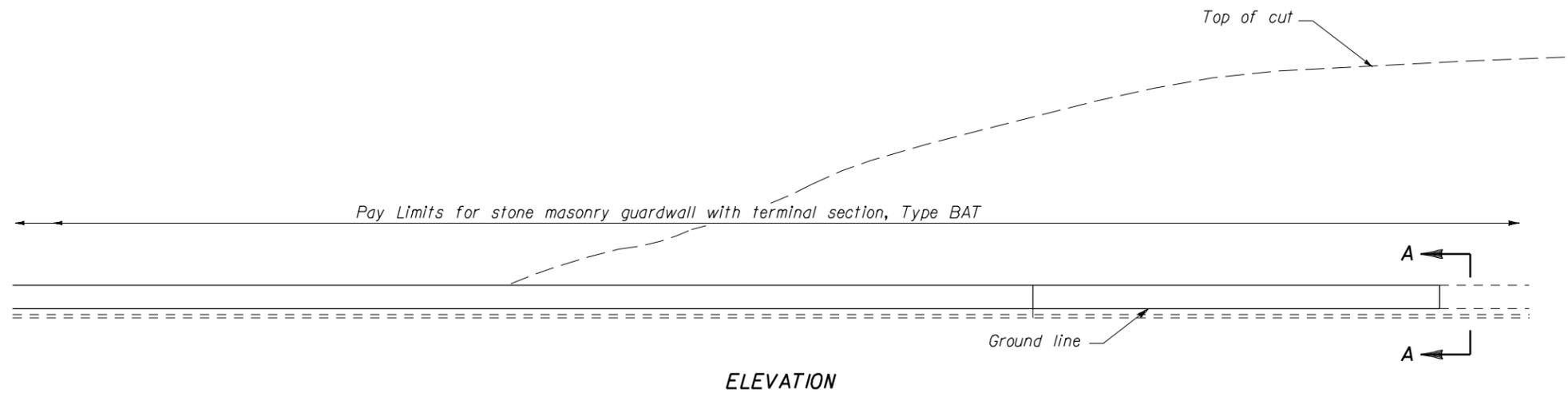
STANDARD
 M620-2

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS

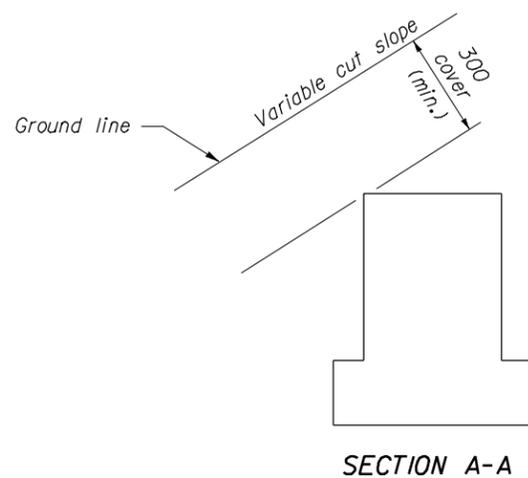


NOTES:

1. Unless otherwise shown, dimensions are in millimeters.
2. See guardrail standards for concrete, masonry, and base details.
3. Begin cut flares at the transition point between fill and cut as directed.
4. Extend flare into cut until a minimum 300 mm cover is obtained over the guardwall end.



**APPROACH AND DEPARTURE FLARE
BACK SLOPE ANCHORED TERMINAL (BAT)**



Design Speed (Km/h)	Shy line offset (meters)	Flare rate inside shy line (b:a)	Flare rate outside shy line (b:a)
100	2.5	1:26	1:13
80	2.0	1:21	1:11
60	1.5	1:17	1:9
50 or less	1.0	1:13	7:7

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY OFFICE

METRIC STANDARD

**STONE MASONRY GUARDWALL
TERMINAL SECTION, TYPE BAT**

STANDARD APPROVED FOR USE 03/96

STANDARD
M620-3

REVISID: 7/98

NO SCALE