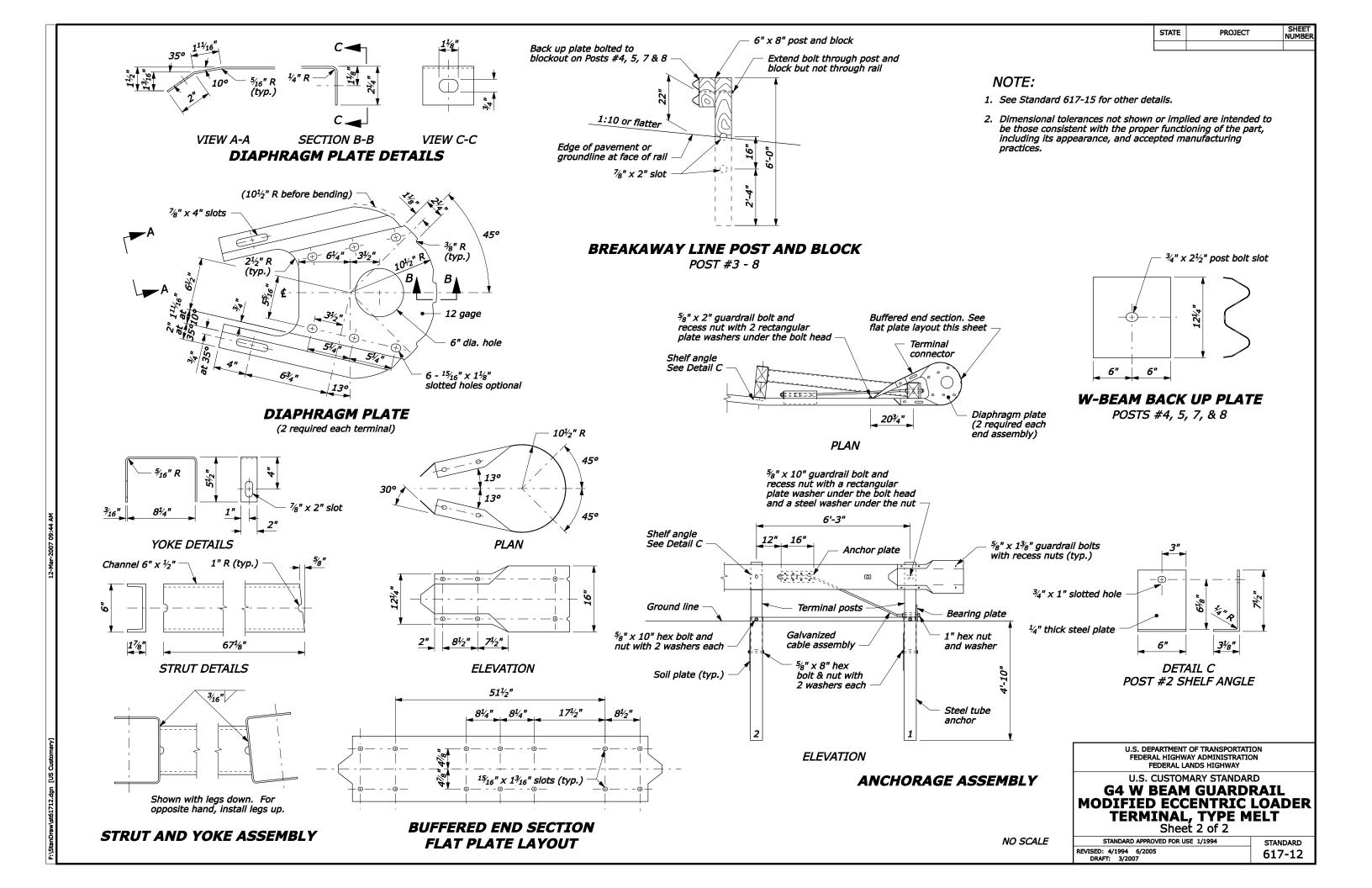


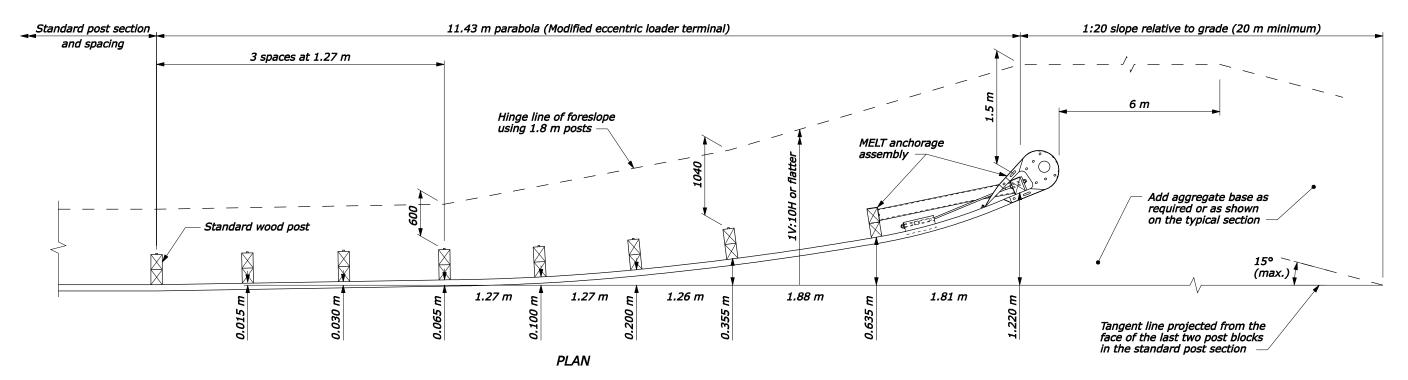
SHEET STATE **PROJECT NOTE:** 1. See Standard 617-15 for other details. 2. Do not use terminal where speeds are in excess of 45 MPH. Standard post section 37'-6" parabola (Modified eccentric loader terminal) 1:20 slope relative to grade (65' minimum) and spacing 3 spaces at 4'-2" 3 spaces at 4'-2" 20' Hinge line of foreslope using 6 foot posts MELT anchorage Add aggregate base as required or as shown on the typical section Standard wood post 15° (max.) 6'-2" 5'-11" 0.33' 0.66' 2.08′ Tangent line projected from the face of the last two post blocks in the standard post section **PLAN** Pay Limits Terminal Section, Type MELT Pay Limits Guardrail System G4 EXTEND BOLTS THROUGH POST AND BLOCK BUT NOT THROUGH RAIL Back up plates on Posts # 4, 5, 7, & 8; shelf angle on Post #2 12'-6" shop bent 6'-3" shop bent 6'-3" shop bent 90' radius 38' radius 90' radius Apply yellow 12" x 36" retroreflective adhesive sheeting to nose after curving. (Optional) 1 6 1 1 6 1 1 6 1 # Int MELT anchorage assembly See Sheet 2 of 2 4 3 1**9**| 8 1**7**1 **5**1 Edge of pavement or ground line at face of rail as applicable U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY **ELEVATION** U.S. CUSTOMARY STANDARD **G4 W BEAM GUARDRAIL APPROACH & DEPARTURE FLARE MODIFIED ECCENTRIC LOADER** TERMINAL, TYPE MELT WITH MODIFIED ECCENTRIC LOADER TERMINAL Sheet 1 of 2 NO SCALE STANDARD APPROVED FOR USE 1/1994 STANDARD REVISED: 4/1994 6/2005 DRAFT: 3/2007 617-12

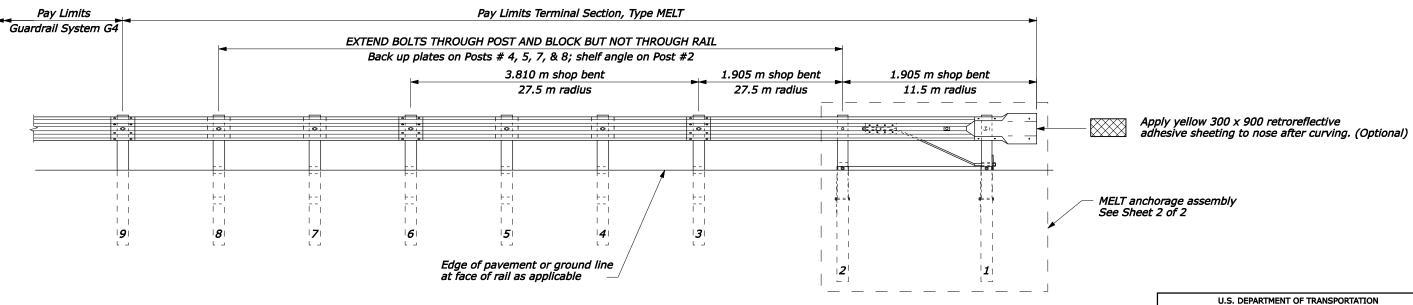


STATE PROJECT SHEET NUMBER

NOTE:

- 1. See Standard M617-15 for other details.
- 2. Do not use terminal where speeds are in excess of 70 km/h [45 MPH].
- 3. Dimensions without units are millimeters.





ELEVATION

APPROACH & DEPARTURE FLARE
WITH MODIFIED ECCENTRIC LOADER TERMINAL

FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY

METRIC STANDARD

G4 W BEAM GUARDRAIL MODIFIED ECCENTRIC LOADER TERMINAL, TYPE MELT

Sheet 1 of 2

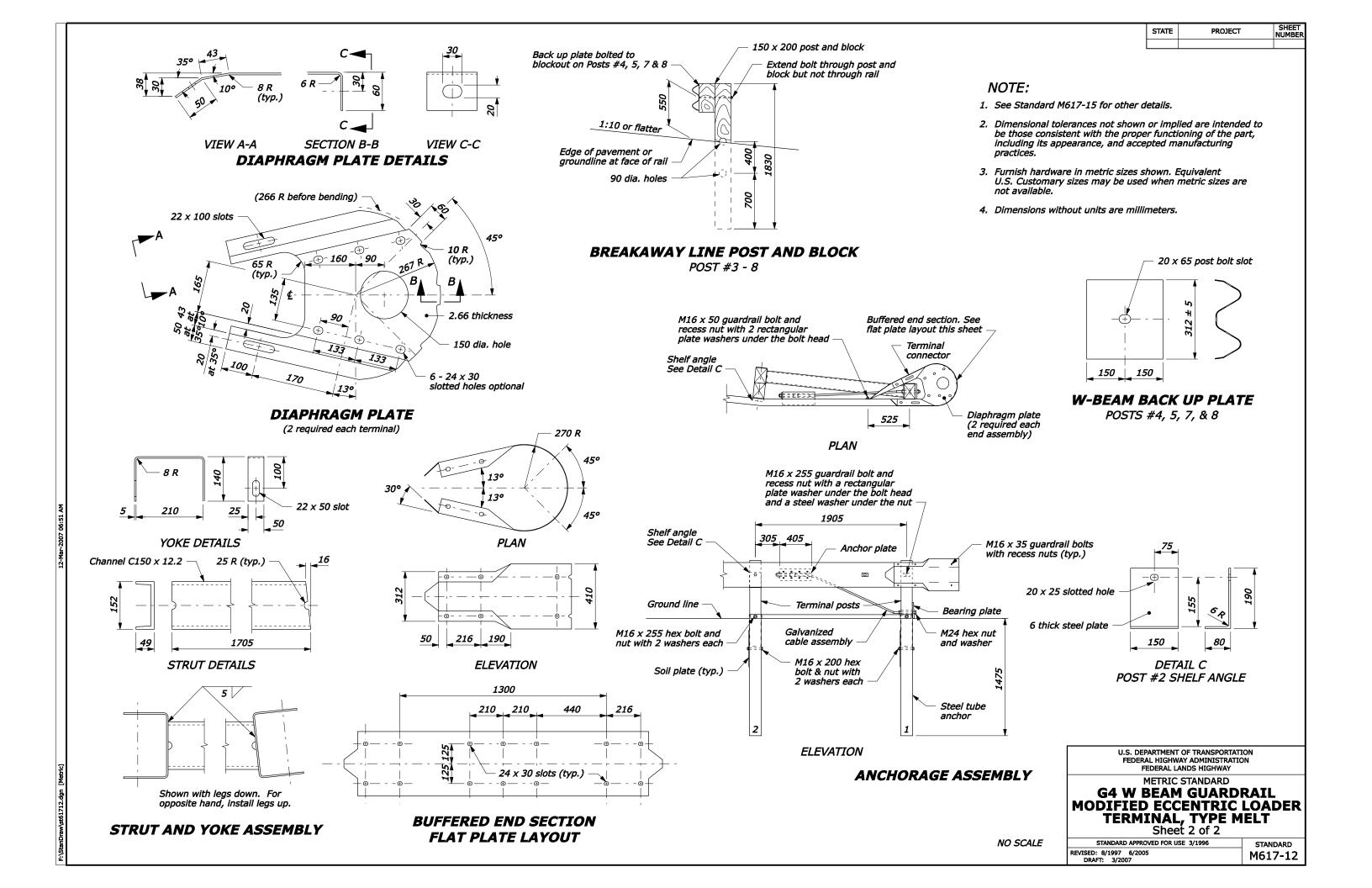
STANDARD APPROVED FOR USE 3/1996

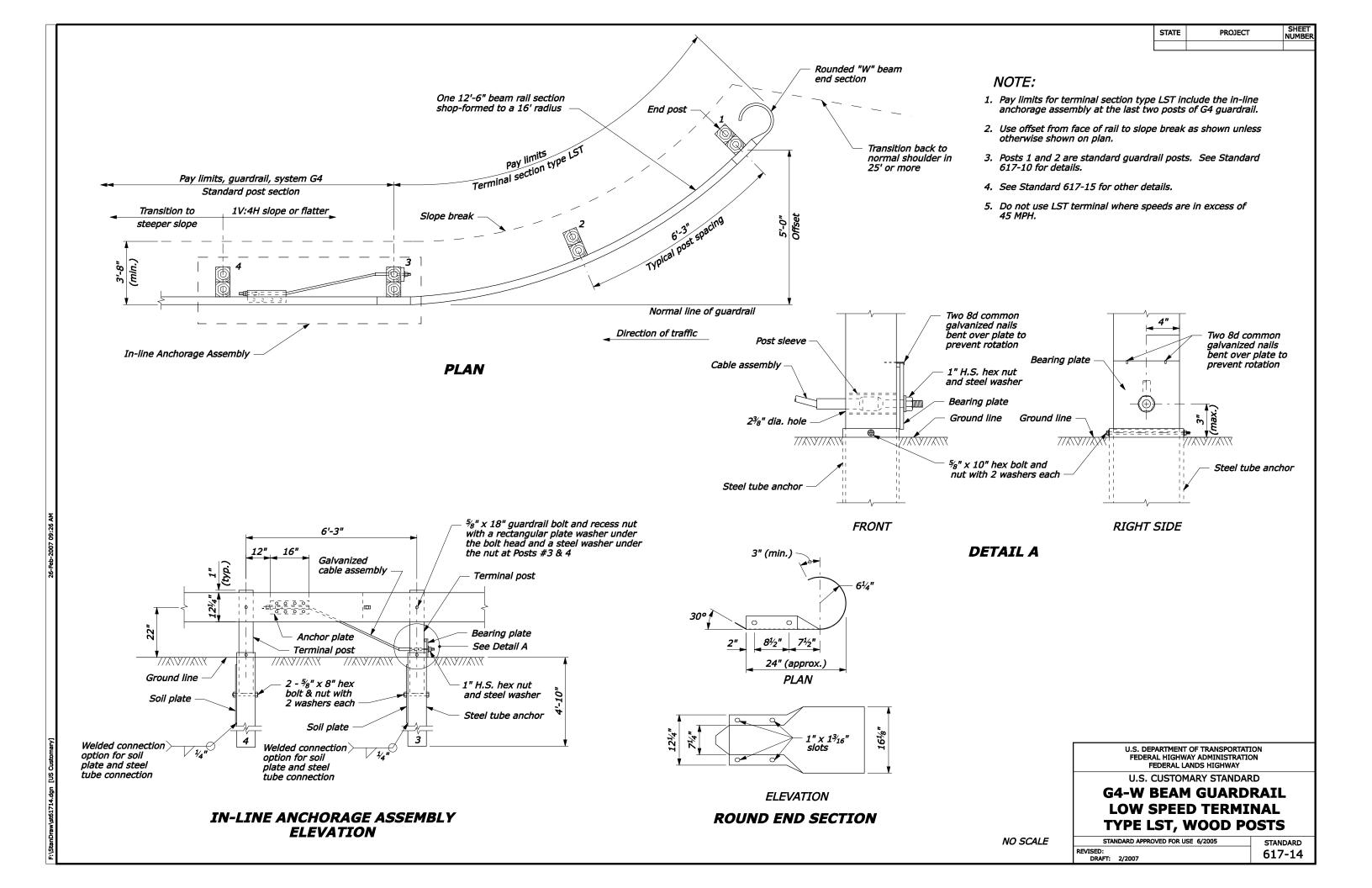
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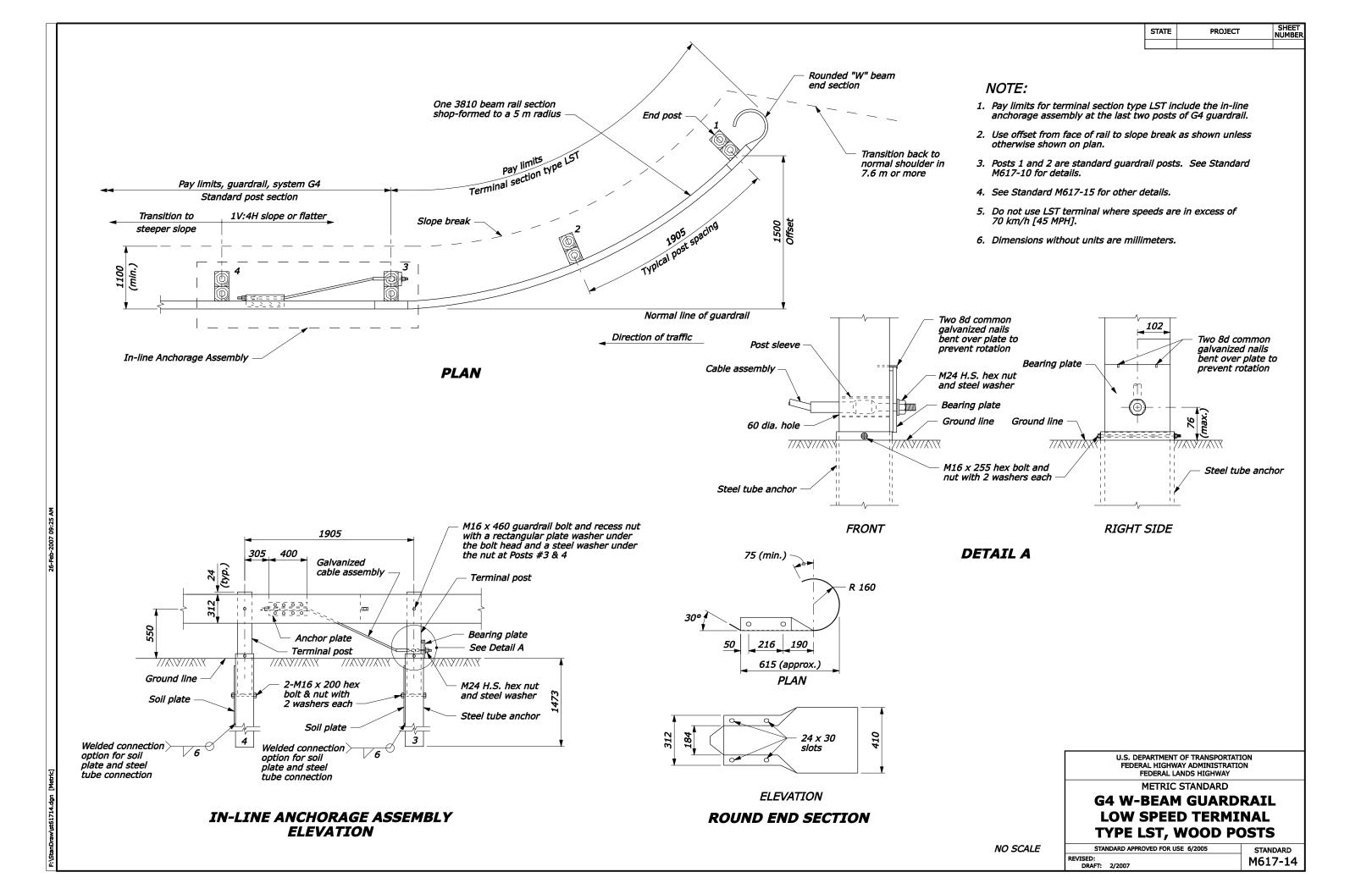
DRAFT: 3/2007

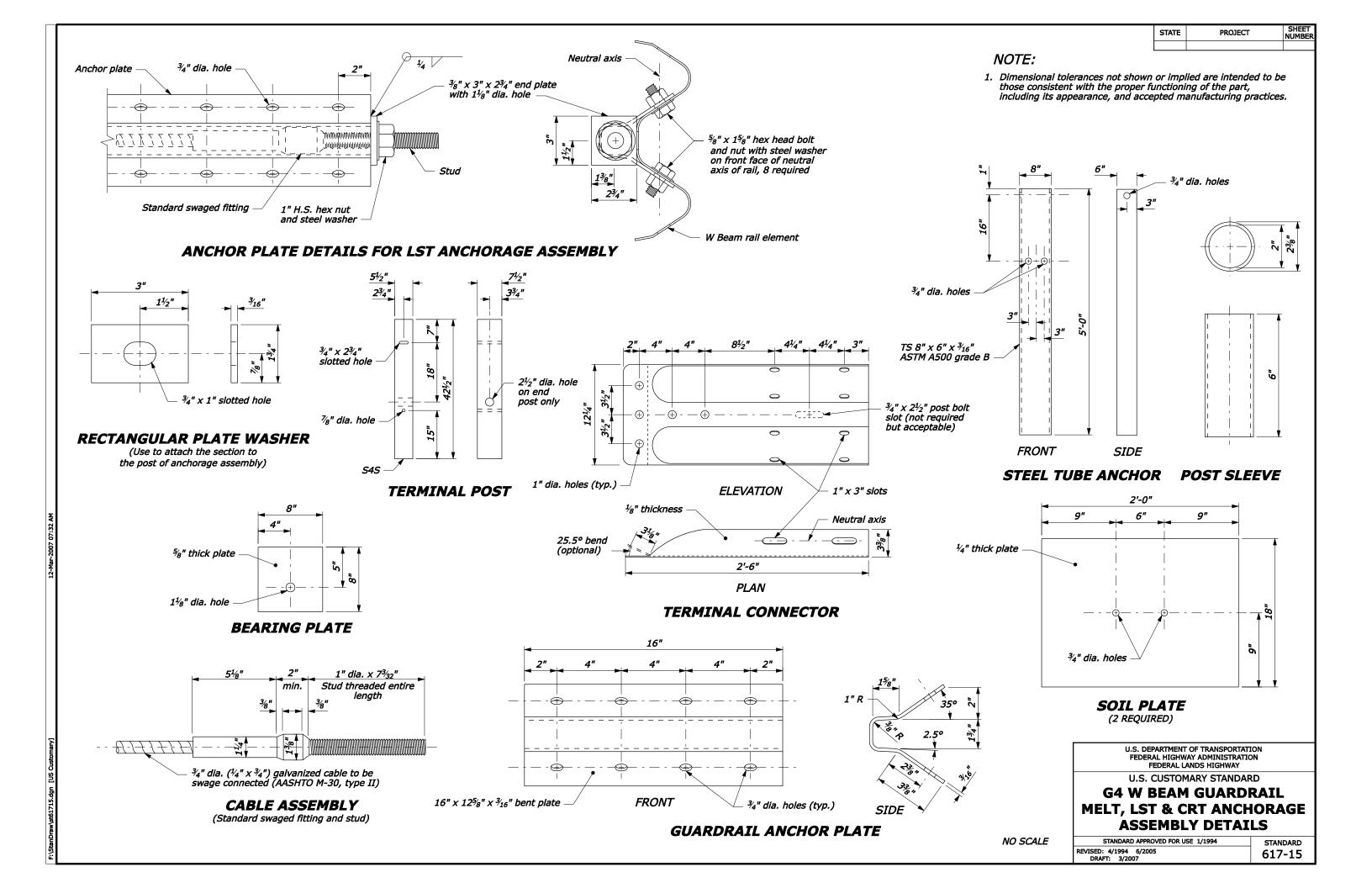
NO SCALE

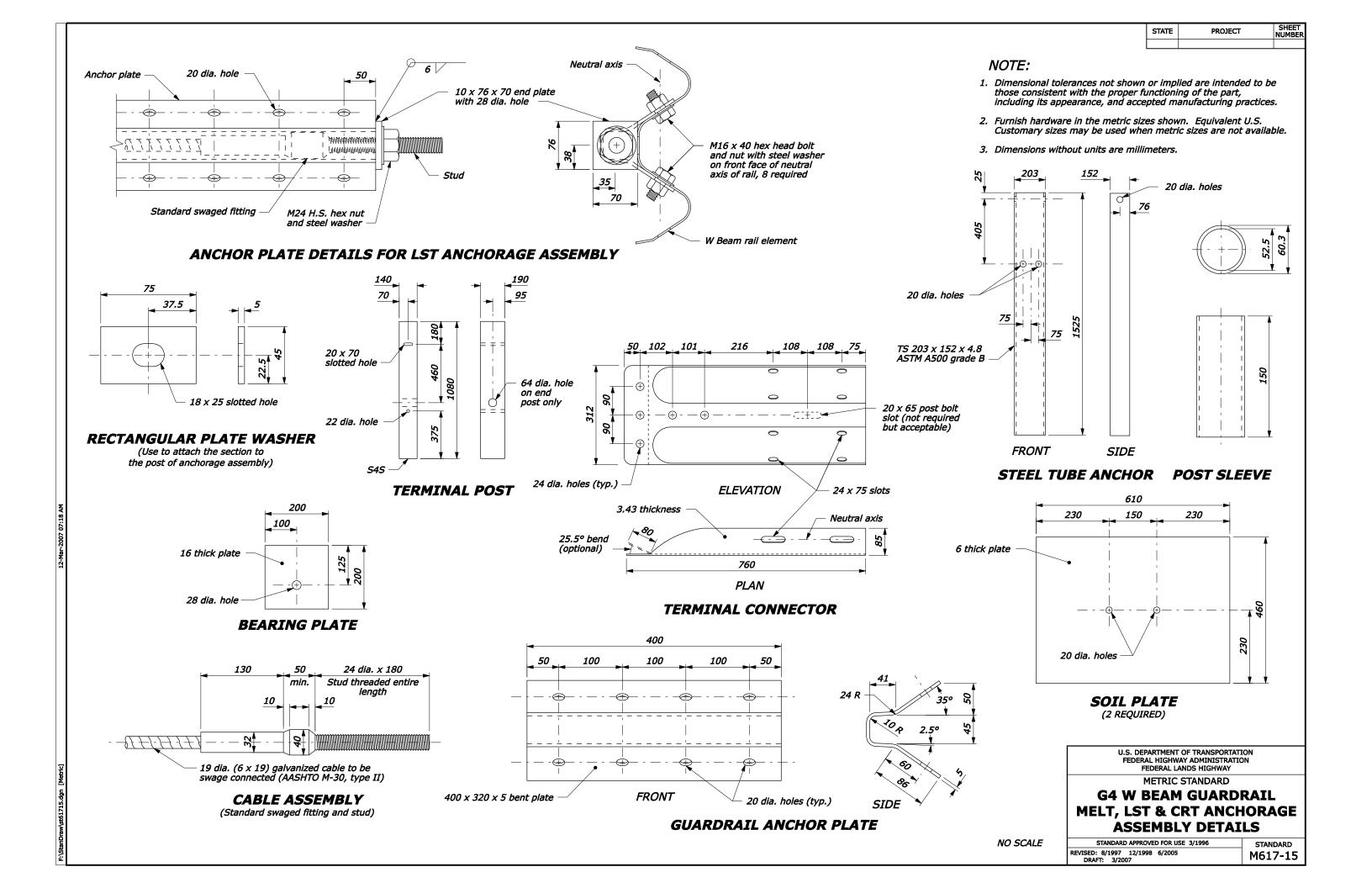
STANDARD M617-12

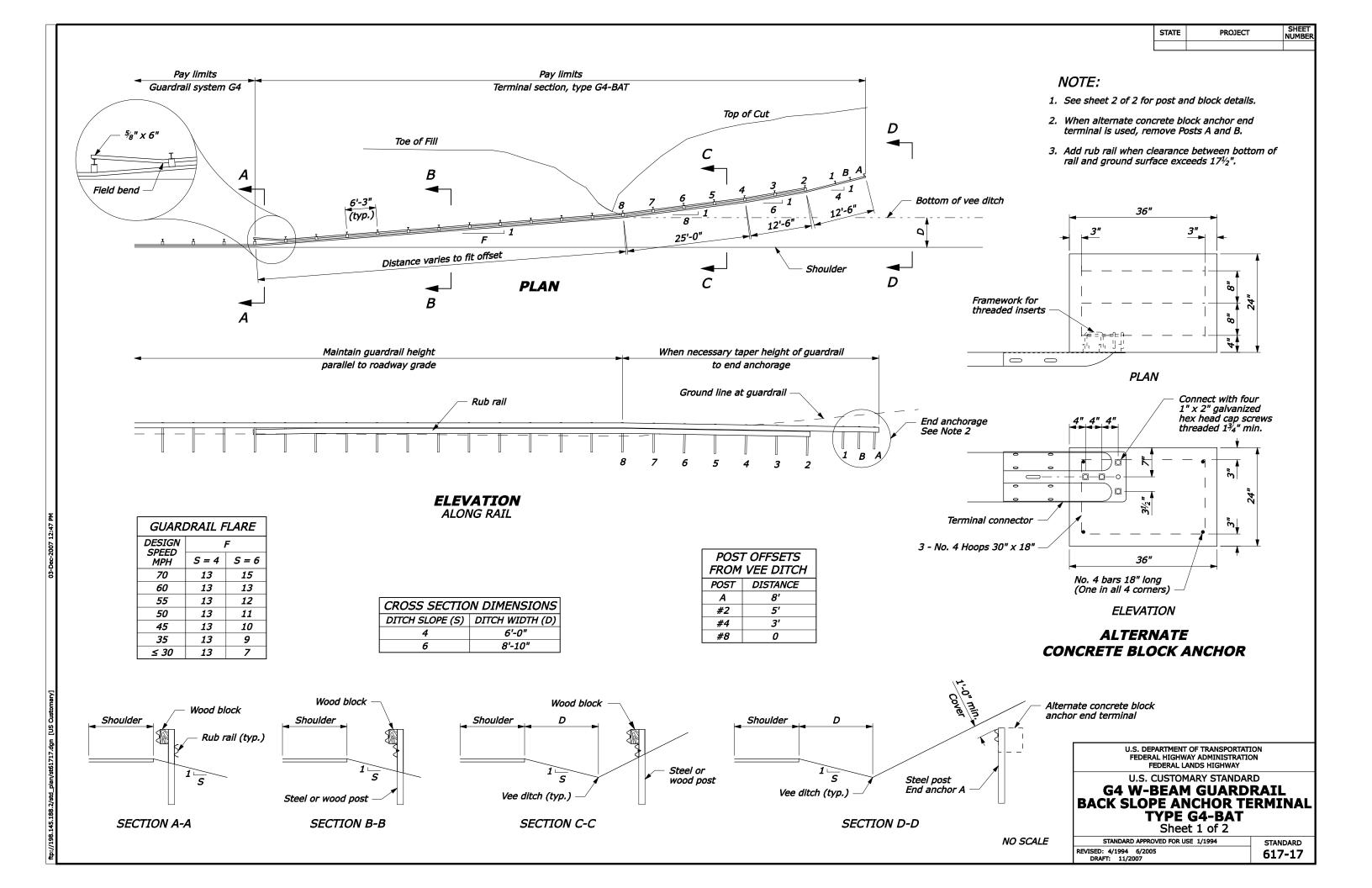


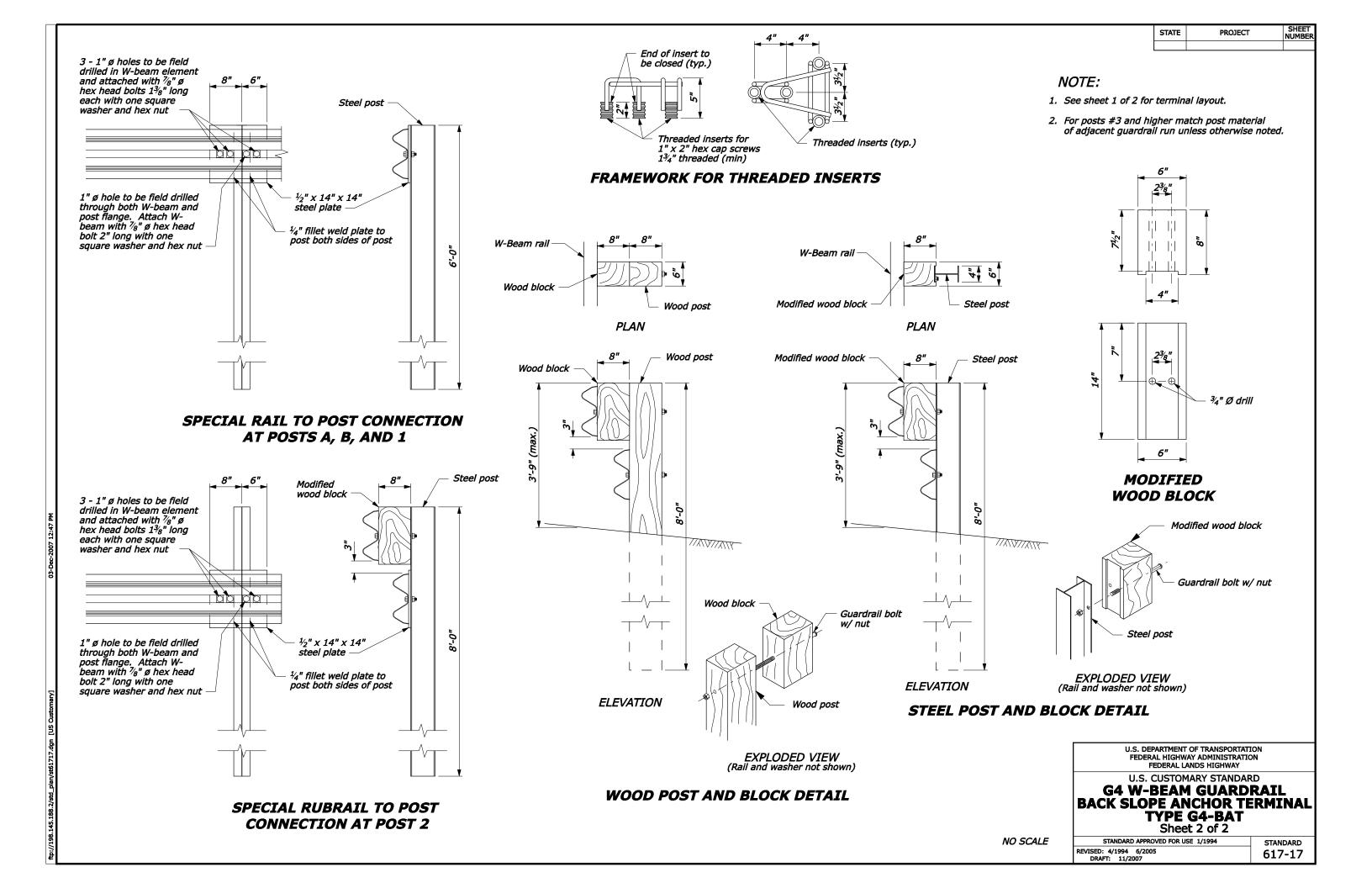


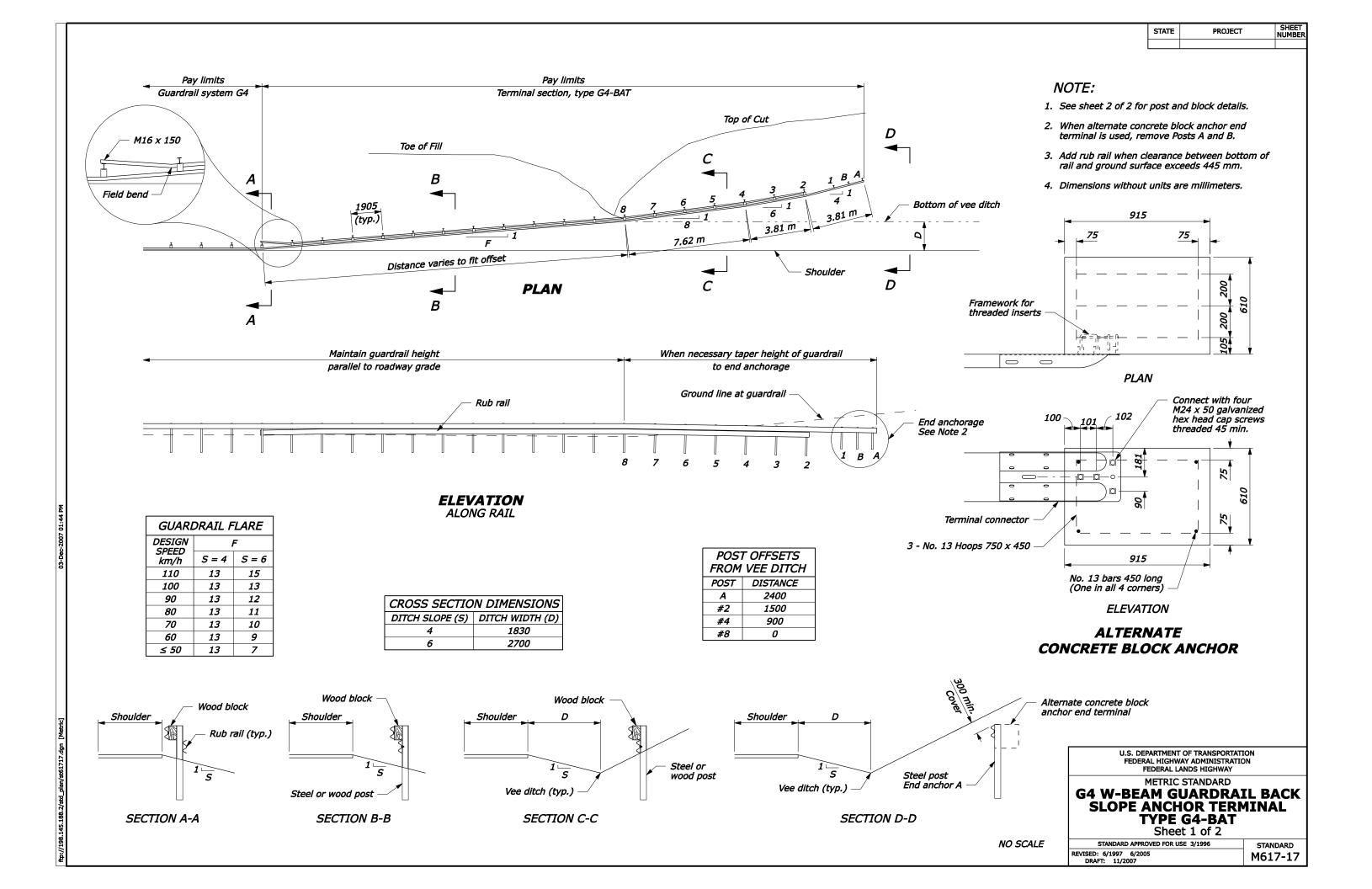


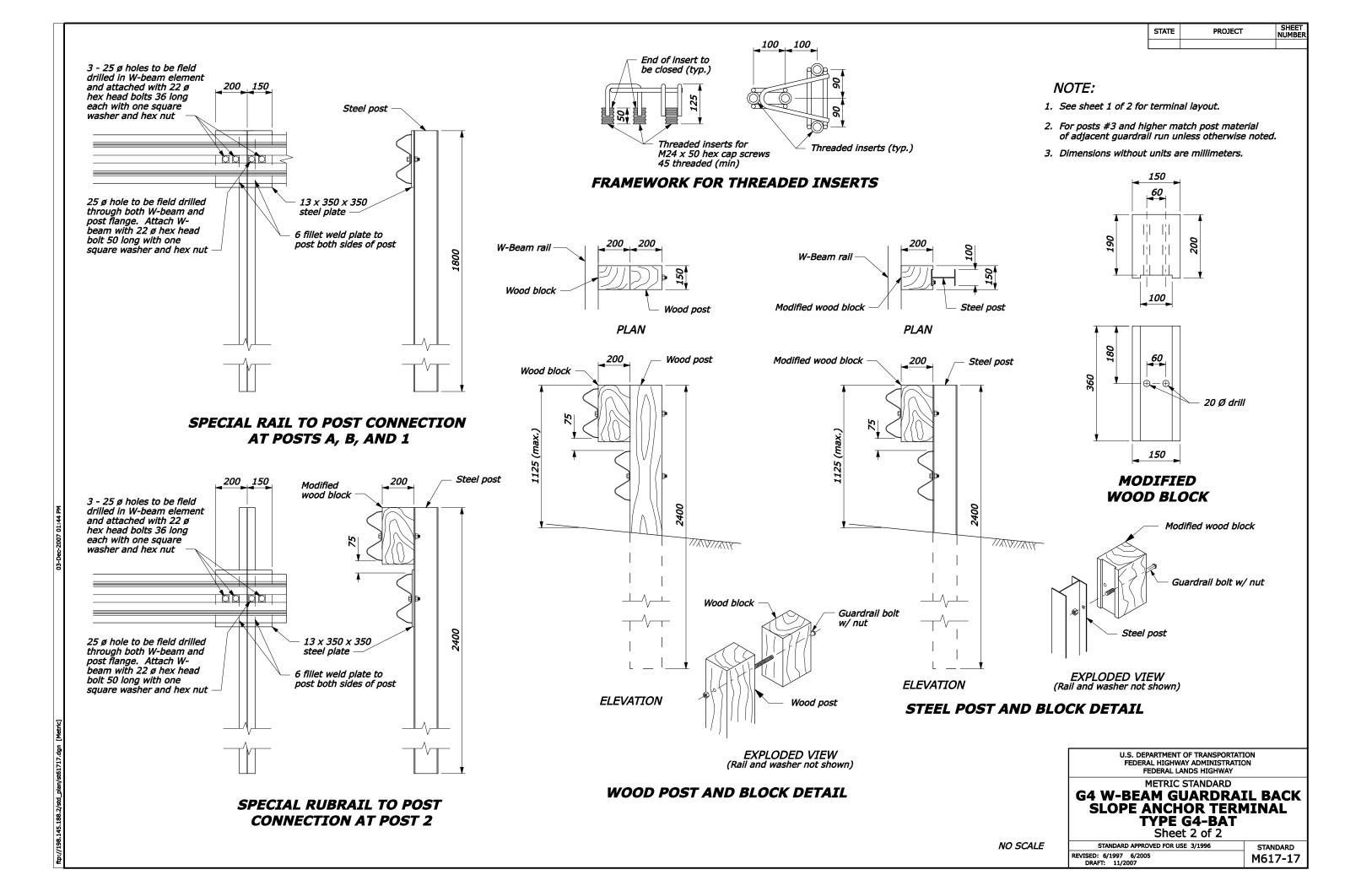


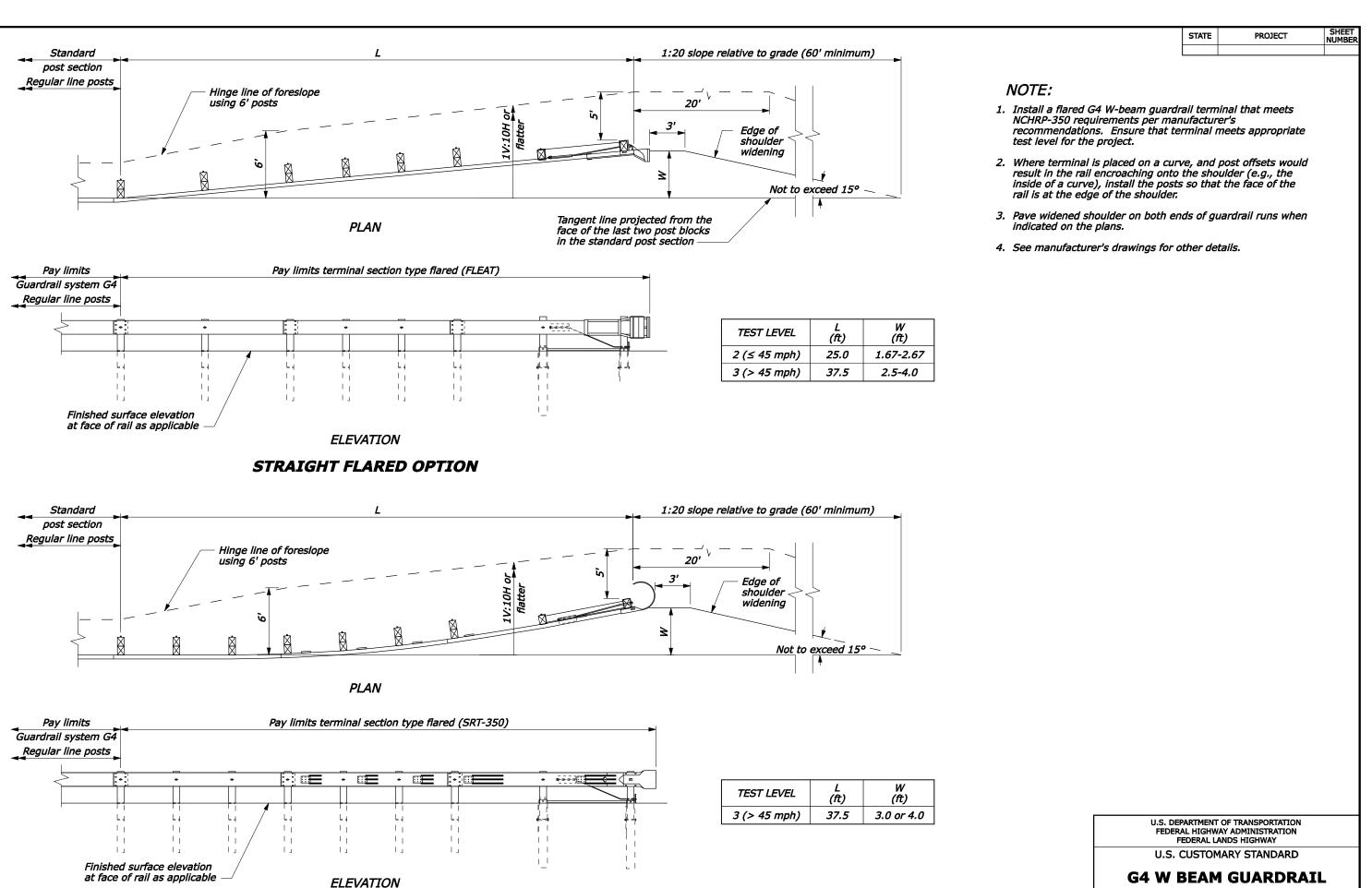












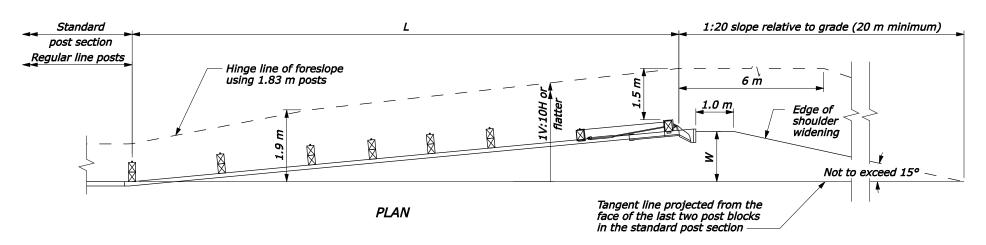
PARABOLIC FLARED OPTION

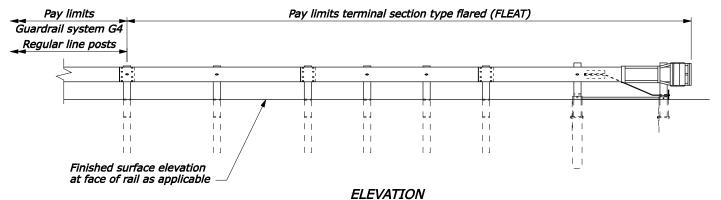
TYPE FLARED TERMINAL

NO SCALE

STANDARD APPROVED FOR USE 6/2005	STANDARD
REVISED:	617-19
DRAFT: 2/2007	01/13

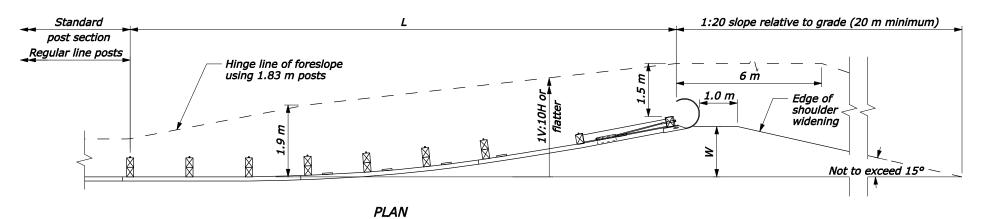


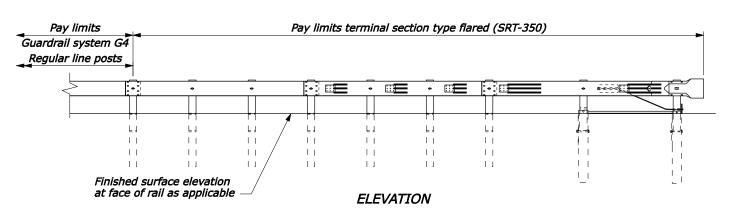




TEST LEVEL	L (m)	W (m)
2 (≤ 70 km/h)	7.62	0.51-0.81
3 (> 70 km/h)	11.43	0.76-1.22

STRAIGHT FLARED OPTION





TEST LEVEL	L (m)	W (m)
3 (> 70 km/h)	11.43	0.9 or 1.22

PARABOLIC FLARED OPTION

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

METRIC STANDARD

G4 W BEAM GUARDRAIL TYPE FLARED TERMINAL

NO SCALE

NOTE:

test level for the project.

indicated on the plans.

rail is at the edge of the shoulder.

4. See manufacturer's drawings for other details.

1. Install a flared G4 W-beam guardrail terminal that meets NCHRP-350 requirements per manufacturer's

recommendations. Ensure that terminal meets appropriate

2. Where terminal is placed on a curve, and post offsets would result in the rail encroaching onto the shoulder (e.g., the inside of a curve), install the posts so that the face of the

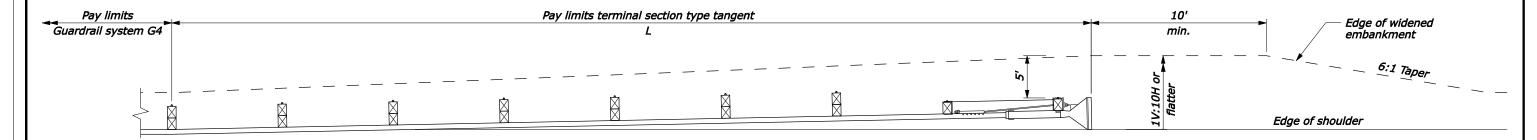
3. Pave widened shoulder on both ends of guardrail runs when

STANDARD APPROVED FOR USE 6/2005	STANDARD
VISED: DRAFT: 2/2007	M617-19

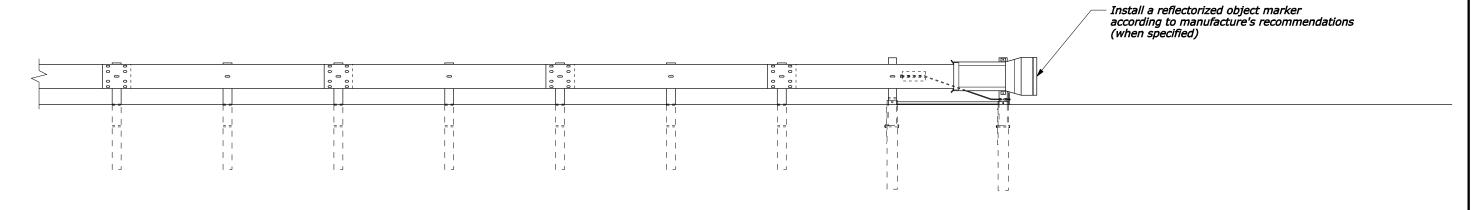
STATE PROJECT SHEET NUMBER

NOTE:

- Install a tangent G4 W-beam guardrail terminal that meets NCHRP-350 requirements per manufacturer's recommendations. Ensure that terminal meets appropriate test level for the project.
- 2. Install terminal at a 1:50 taper, ensuring that end piece is entirely off shoulder.
- 3. See manufacturer's drawings for other details.



PLAN



ELEVATION

TEST LEVEL	L (ft)
2 (≤ 45 mph)	25
3 (> 45 mph)	37.5 or 50

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

U.S. CUSTOMARY STANDARD

G4 W BEAM GUARDRAIL TYPE TANGENT TERMINAL

NO SCALE

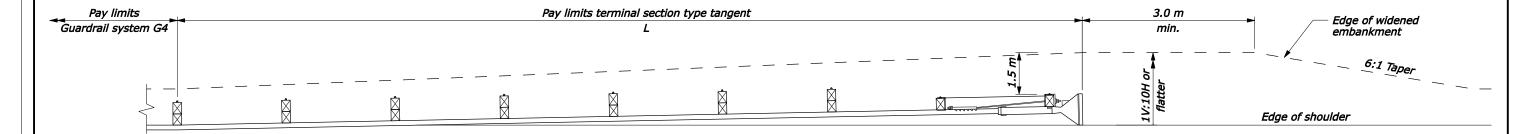
 STANDARD APPROVED FOR USE 6/2005
 STANDARD

 REVISED:
 DRAFT: 2/2007

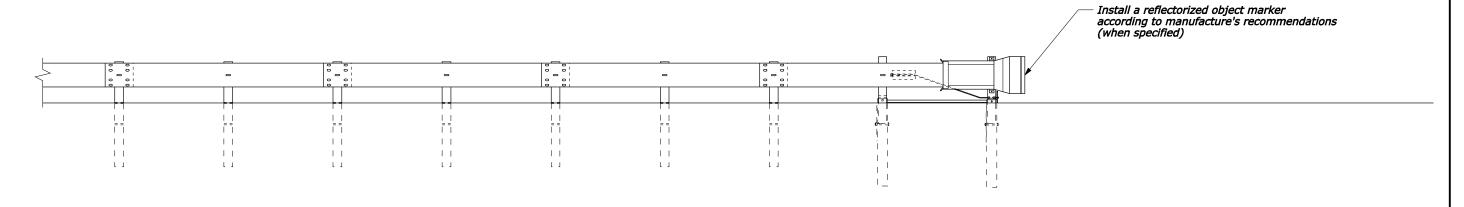
STATE PROJECT SHEET NUMBER

NOTE:

- 1. Install a tangent G4 W-beam guardrail terminal that meets NCHRP-350 requirements per manufacturer's recommendations. Ensure that terminal meets appropriate test level for the project.
- 2. Install terminal at a 1:50 taper, ensuring that end piece is entirely off shoulder.
- 3. See manufacturer's drawings for other details.



PLAN



ELEVATION

TEST LEVEL	(m)
2 (≤ 70 km/h)	7.62
3 (> 70 km/h)	11.43 or 15.24

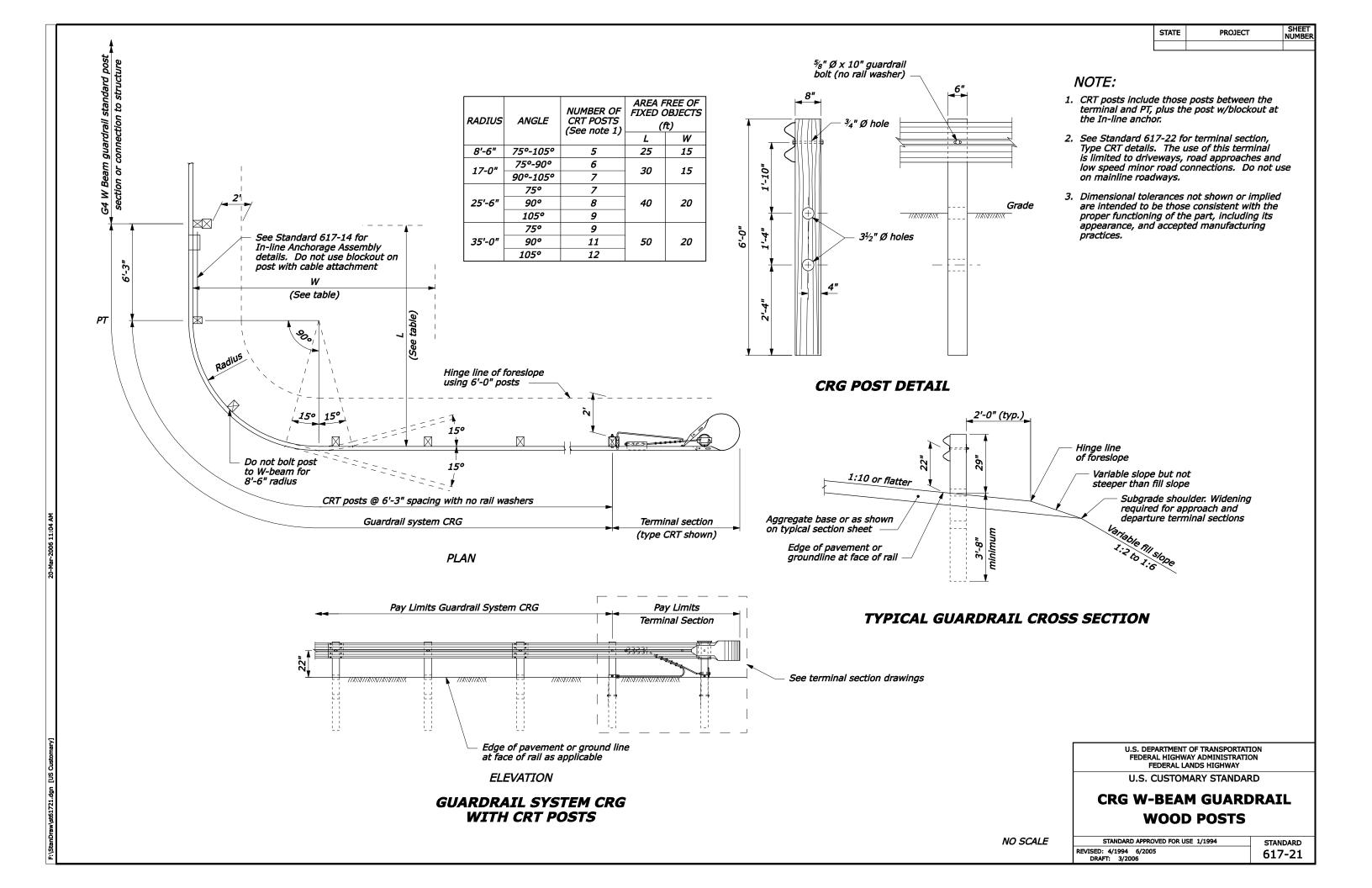
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY

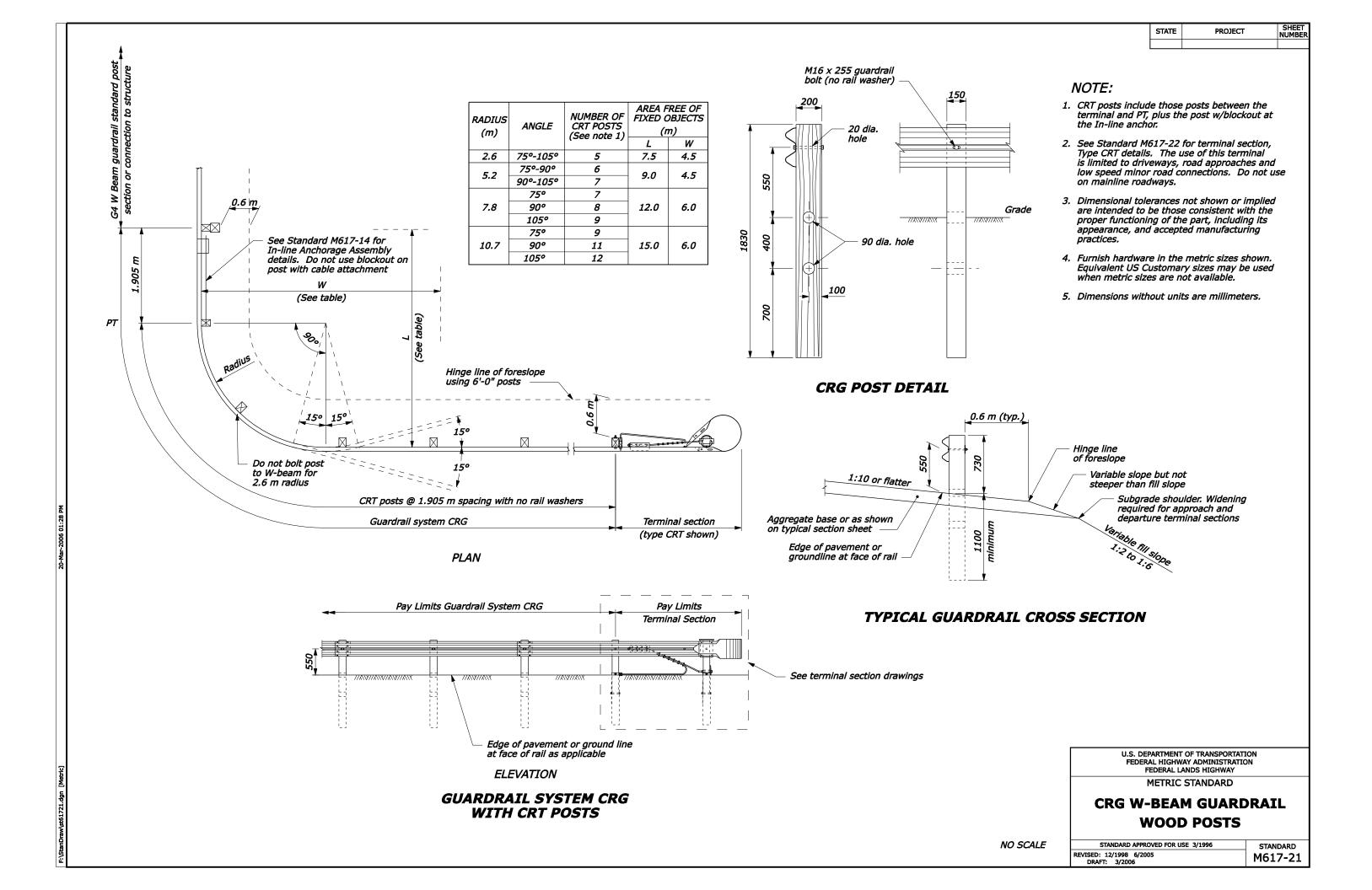
METRIC STANDARD

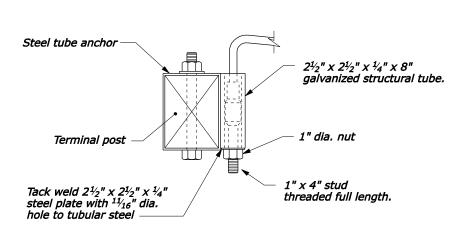
G4 W BEAM GUARDRAIL TYPE TANGENT TERMINAL

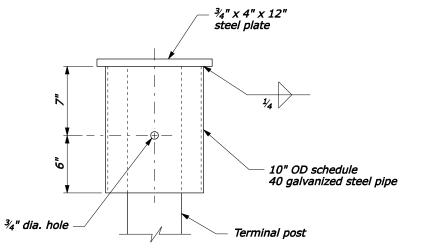
NO SCALE

STANDARD APPROVED FOR USE 6/2005 STANDARD
REVISED: M617-20







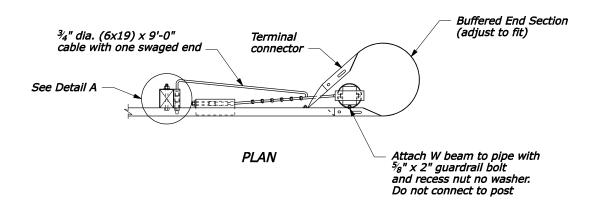


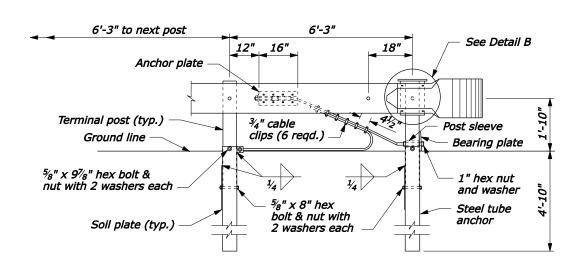
DETAIL B

NOTE:

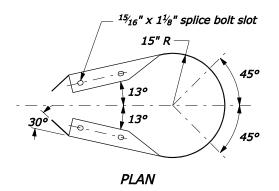
- 1. See Standard 617-15 for other details.
- Dimensional tolerances not shown or implied are intended to be those consistent with the proper functioning of the part, including its appearance, and accepted manufacturing practices.

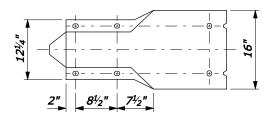
DETAIL A





ELEVATION
ANCHORAGE ASSEMBLY





ELEVATION
BUFFERED END SECTION

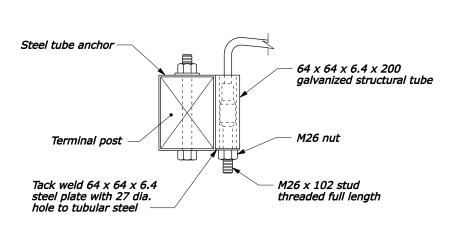
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY

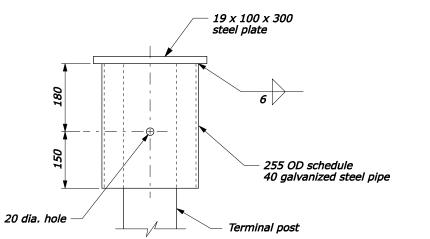
U.S. CUSTOMARY STANDARD

CRG W-BEAM GUARDRAIL
CABLE RELEASING TERMINAL
TYPE CRT, WOOD POSTS

NO SCALE

STANDARD APPROVED FOR USE 1/1994 STANDARD
REVISED: 4/1994 6/2005
DRAFT 3/2006 617-22





DETAIL B

NOTE:

- 1. See Standard M617-15 for other details.
- Dimensional tolerances not shown or implied are intended to be those consistent with the proper functioning of the part, including its appearance, and accepted manufacturing practices.
- 3. Furnish hardware in the metric sizes shown. Equivalent US Customary sizes may be used when metric sizes are not available.
- 4. Dimensions without units are millimeters.

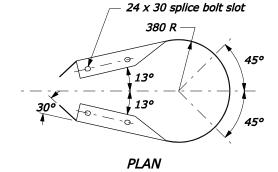
DETAIL A

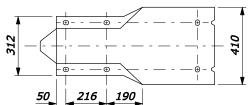
19 dia. (6x19) x 2750
cable with one swaged end

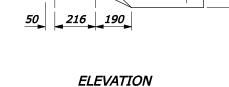
Terminal
connector

See Detail A

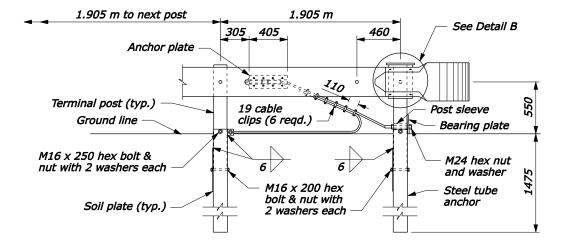
Attach W beam to pipe with
M16 x 50 guardrail bolt
and recess nut no washer.
Do not connect to post







BUFFERED END SECTION



ELEVATION
ANCHORAGE ASSEMBLY

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

METRIC STANDARD

CRG W-BEAM GUARDRAIL CABLE RELEASING TERMINAL TYPE CRT, WOOD POSTS

NO SCALE

STANDARD APPROVED FOR USE 3/1996	STANDARD
EVISED: 6/2005	M617-22
DRAFT: 3/2006	11017 22