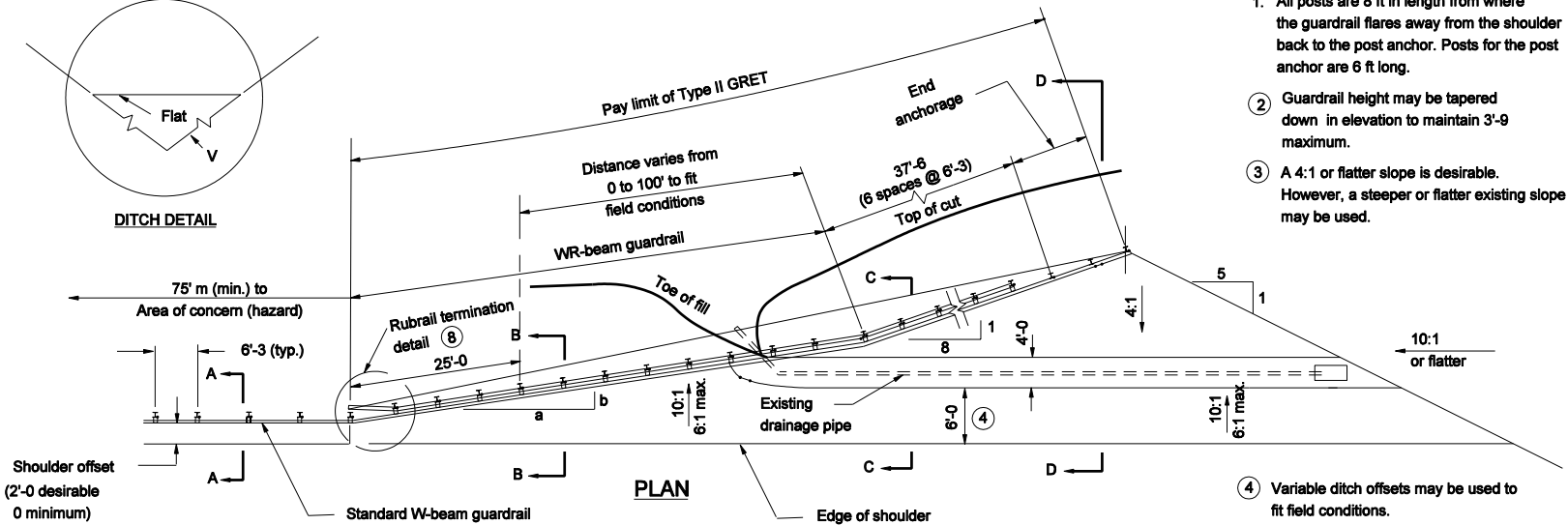


DITCH DETAIL

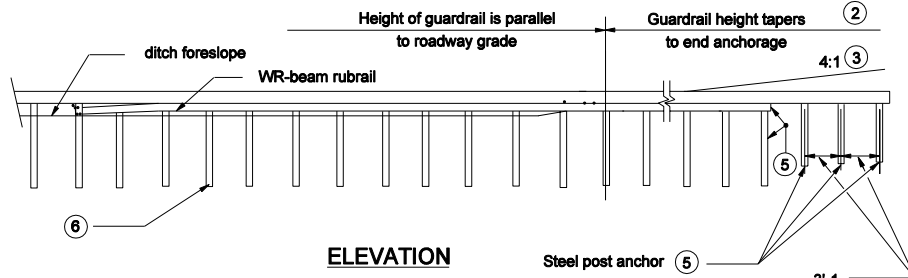


PLAN

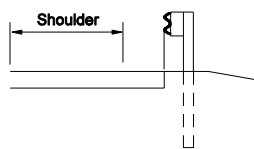
Shoulder offset  
(2'-0 desirable  
0 minimum)

Design speed mph	a:b
≥ 60	13:1
55	12:1
50	11:1
45 or less	10:1

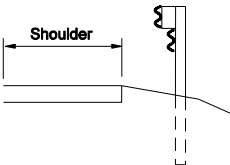
a:b RATIO



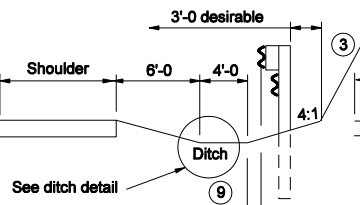
ELEVATION



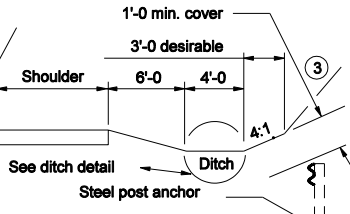
SECTION A-A



SECTION B-B  
(WITH RUBRAIL)



SECTION C-C  
(WITH RUBRAIL)



SECTION D-D

**NOTES:**

- All posts are 8 ft in length from where the guardrail flares away from the shoulder back to the post anchor. Posts for the post anchor are 6 ft long.
- Guardrail height may be tapered down in elevation to maintain 3'-9 maximum.
- A 4:1 or flatter slope is desirable. However, a steeper or flatter existing slope may be used.
- Variable ditch offsets may be used to fit field conditions.
- See Standard Drawing E 601-GRET-11 for rub rail anchor details and post anchor details.
- See Standard Drawing E 601-WBGA-06 for steel post and wood block details.
- Ditch cross section profile should be same as upstream ditch cross section profile and have same or greater hydraulic capacity.
- See Standard Drawing E 601-WBGA-06 for detail.
- Posts shall be installed offset from the required ditch cross section to maintain ditch's hydraulic capacity.

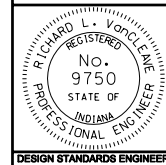
INDIANA DEPARTMENT OF TRANSPORTATION

**GUARDRAIL END TREATMENT**

**TYPE II**

**SEPTEMBER 2004**

**STANDARD DRAWING NO. E 601-GRET-10**



/s/ Richard L. VanCleave 9-01-04  
DESIGN STANDARDS ENGINEER DATE

/s/ Richard K. Smutzer 9-01-04  
CHIEF HIGHWAY ENGINEER DATE

DESIGN STANDARDS ENGINEER