

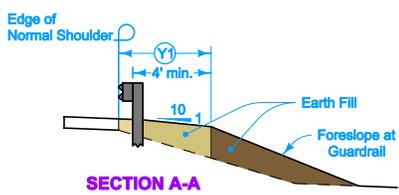
PLAN

Construct earth fill in conformance with requirements for construction of embankments.

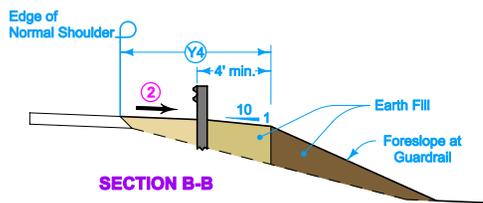
Construct paved shoulder in front of guardrail as shown on Typical 7156.

Guardrail may or may not be attached to face of obstacle.

- ① See Tabulation 107-23.
- ② Match slope of adjacent shoulder.
- ⊗ Measured from Location Station.
- Ⓨ Distance from edge of normal shoulder to toe of 10:1 slope



SECTION A-A



SECTION B-B

Ⓨ4	Ⓩ
feet	feet
4	35
5	39
6	43
7	47
8	50
9	54
10	57
11	61
12	65
13	69
14	72
15	76
16	80
17	83
18	87
19	91
20	95

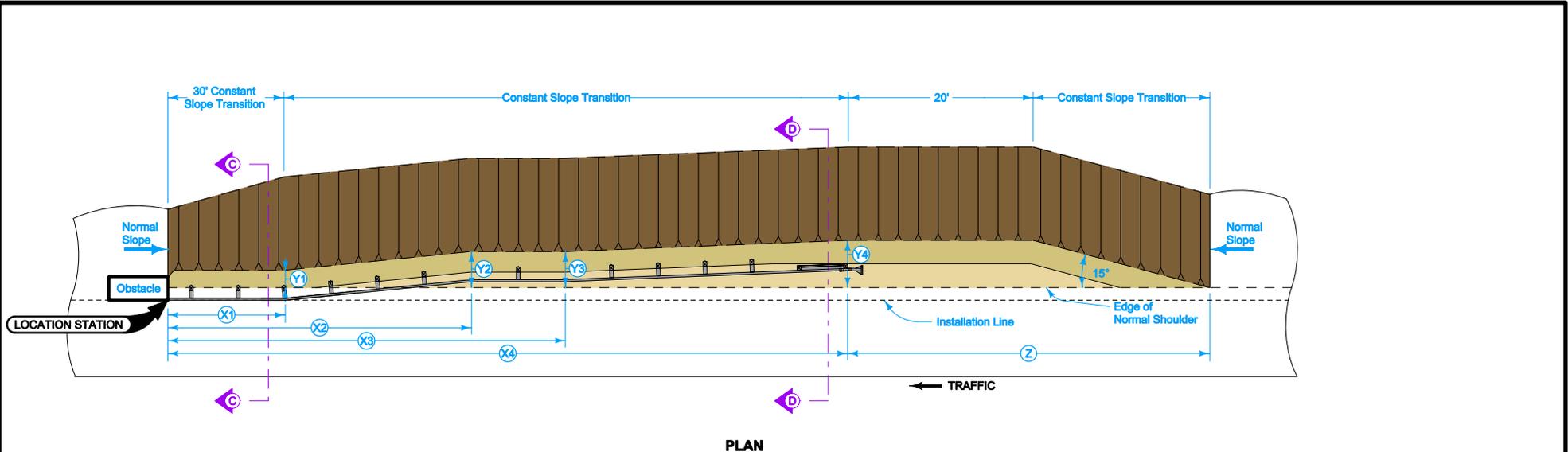
Possible Tabulation:
107-23

LEGEND

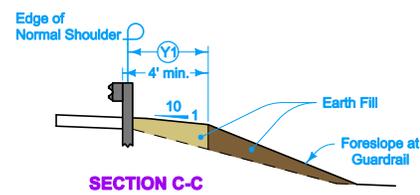
- Foreslope at Guardrail ①
- Slope - 10:1
- Slope in Front of Guardrail ①②

GUARDRAIL INSTALLATION LINE AT OR WITHIN 10 FEET OF SHOULDER

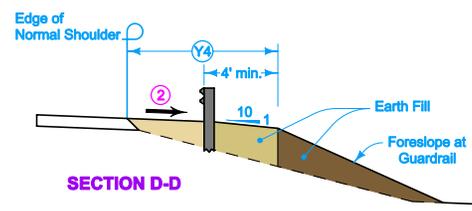
 Iowa Department of Transportation	REVISION 3 10-19-10
	RL-14A
	SHEET 1 of 4
REVISIONS: Adjusted 'Edge of Normal Shoulder' placement on section views. Added blockouts on page 3 and 4. Changed 'Plan' description on page 1 and 4.	
<i>Deanna McFalls</i> APPROVED BY DESIGN METHODS ENGINEER	
GUARDRAIL GRADING	



PLAN



SECTION C-C



SECTION D-D

LEGEND

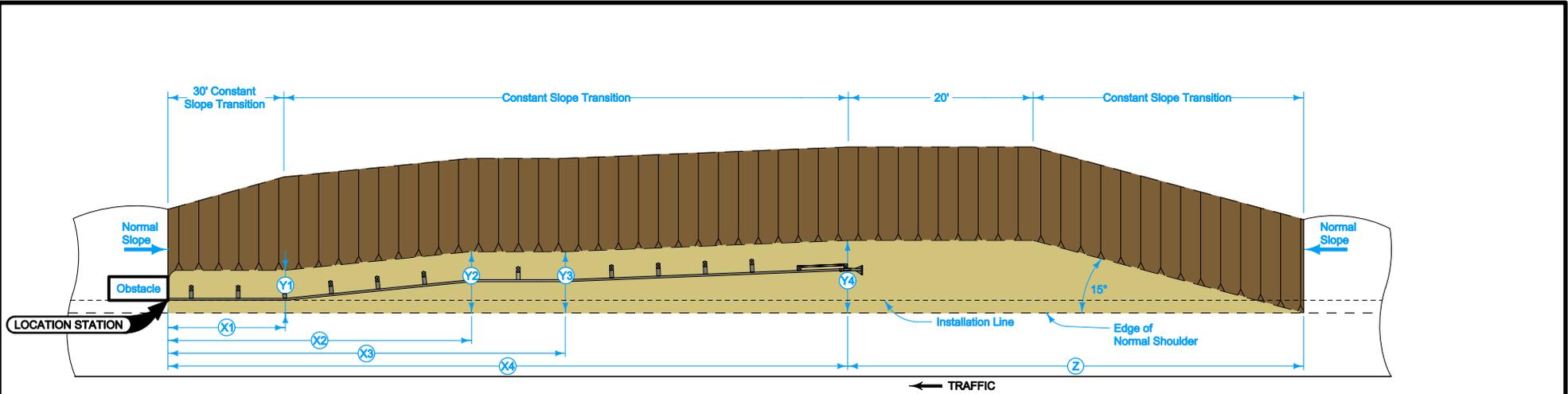
	Foreslope at Guardrail ①
	Slope - 10:1
	Slope in Front of Guardrail ①②

- ① See Tabulation 107-23.
- ② Match slope of adjacent shoulder.
- ⊗ Measured from Location Station.
- Ⓨ Distance from edge of normal shoulder to toe of 10:1 slope

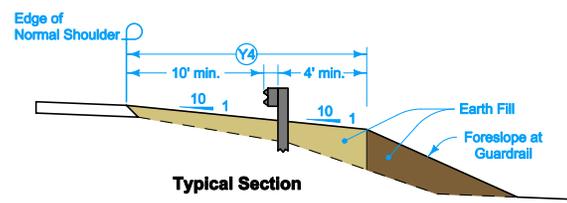
Ⓨ ₄	Ⓩ
feet	feet
4	35
5	39
6	43
7	47
8	50
9	54
10	57
11	61
12	65
13	69
14	72
15	76
16	80
17	83
18	87
19	91
20	95

GUARDRAIL INSTALLATION LINE WITHIN SHOULDER

<p>Iowa Department of Transportation</p> <p>STANDARD ROAD PLAN</p> <p>REVISIONS: Adjusted 'Edge of Normal Shoulder' placement on section views. Added blockouts on page 3 and 4. Changed 'Plan' description on page 1 and 4.</p> <p><i>Deanna McFalls</i> APPROVED BY DESIGN METHODS ENGINEER</p>	<p>REVISION</p> <p>3 10-19-10</p>
	<p>RL-14A</p> <p>SHEET 2 of 4</p>
	<p>GUARDRAIL GRADING</p>



PLAN



Typical Section

- ① See Tabulation 107-23.
- ⓧ Measured from Location Station.
- Ⓨ Distance from edge of normal shoulder to toe of 10:1 slope

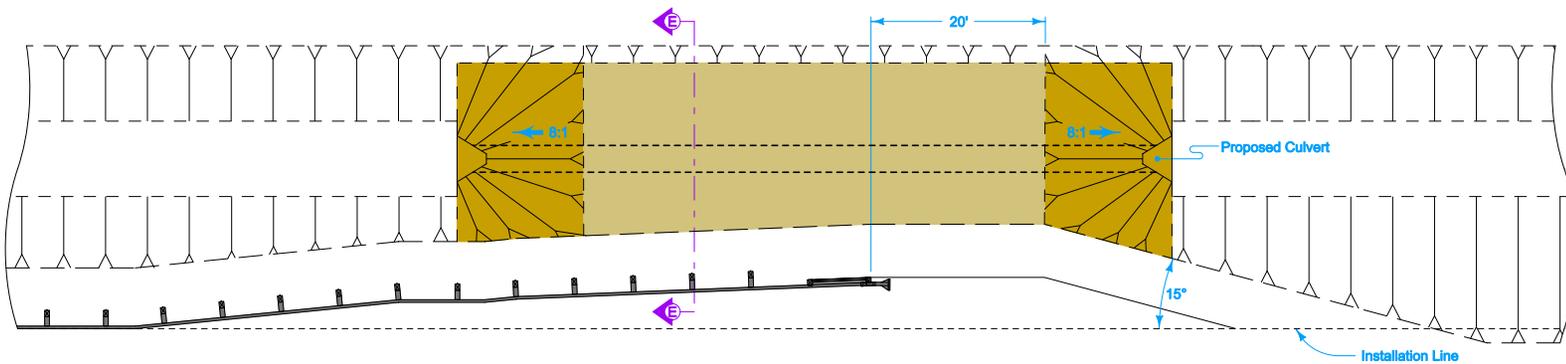
Ⓨ ₄ feet	Ⓩ feet
4	35
5	39
6	43
7	47
8	50
9	54
10	57
11	61
12	65
13	69
14	72
15	76
16	80
17	83
18	87
19	91
20	95

LEGEND

- Foreslope at Guardrail ①
- Slope - 10:1

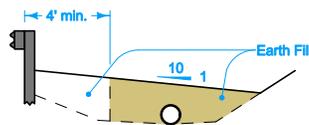
GUARDRAIL INSTALLATION LINE BEYOND 10 FEET FROM SHOULDER

<p>Iowa Department of Transportation</p> <p>STANDARD ROAD PLAN</p> <p>REVISIONS: Adjusted 'Edge of Normal Shoulder' placement on section views. Added blockouts on page 3 and 4. Changed 'Plan' description on page 1 and 4.</p> <p><i>Deanna McFalls</i> APPROVED BY DESIGN METHODS ENGINEER</p>	<p>REVISION</p> <p>3 10-19-10</p>
	<p>RL-14A</p> <p>SHEET 3 of 4</p>
	<p>GUARDRAIL GRADING</p>



PLAN

③ See sheets 1, 2, or 3 for unshaded areas.



SECTION E-E

LEGEND	
	Slope - 10:1
	Slope - 8:1

FILL OVER PIPE CULVERT ③

 Iowa Department of Transportation	REVISION
	3 10-19-10
STANDARD ROAD PLAN	RL-14A
	SHEET 4 of 4
<small>REVISIONS: Adjusted 'Edge of Normal Shoulder' placement on section views. Added blockouts on page 3 and 4. Changed 'Plan' description on page 1 and 4.</small>	
<i>Deanna Mifflin</i> <small>APPROVED BY DESIGN METHODS ENGINEER</small>	
GUARDRAIL GRADING	