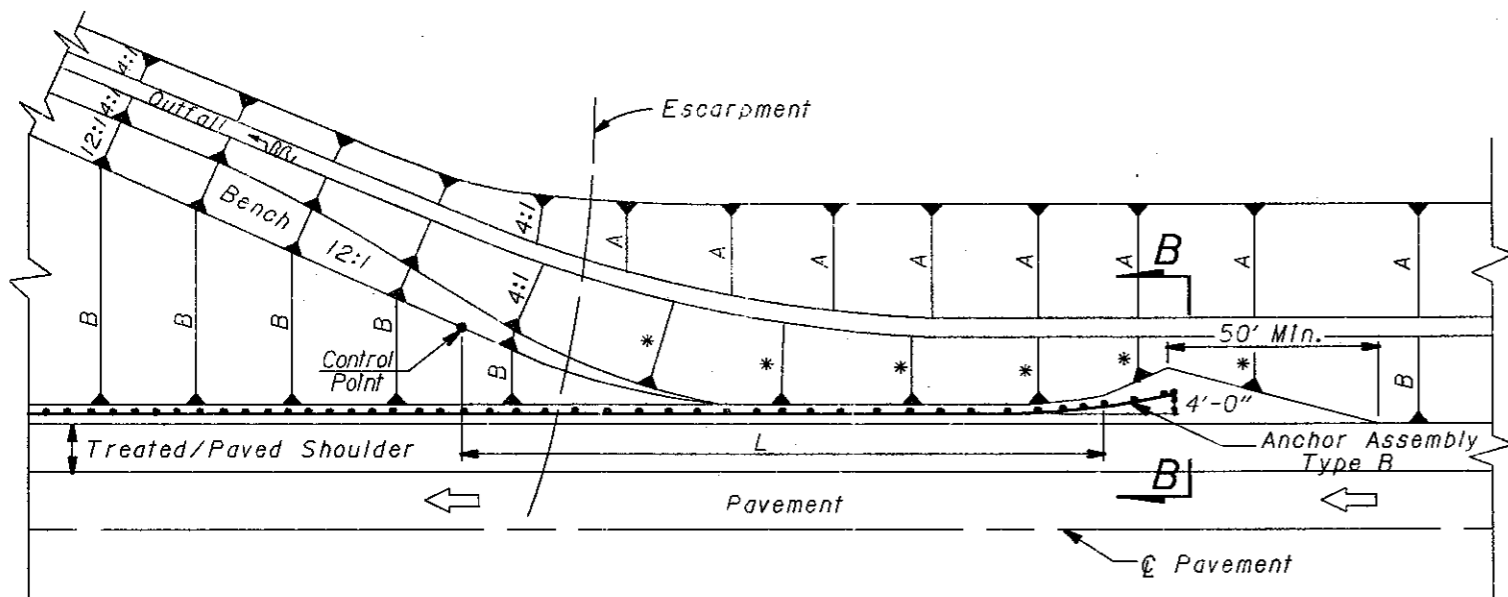
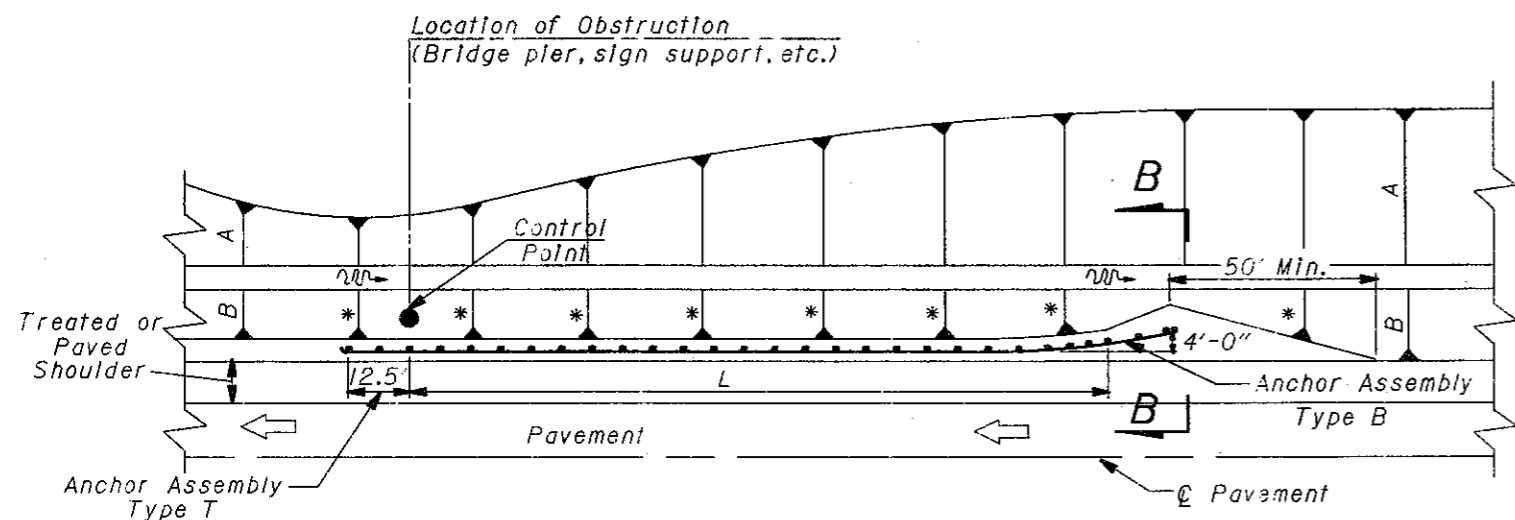


FILL TO FILL



CUT TO FILL



OBSTRUCTION

NOTES

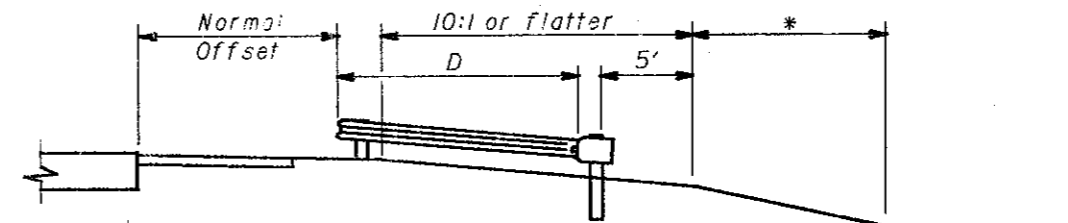
THE APPLICATION of details shown herein shall only be utilized where approach foreslopes are 6:1 or flatter.

SLOPES designated by * shall be 4:1 or flatter. Slopes labeled A or B shall be constructed as specified in the plans.

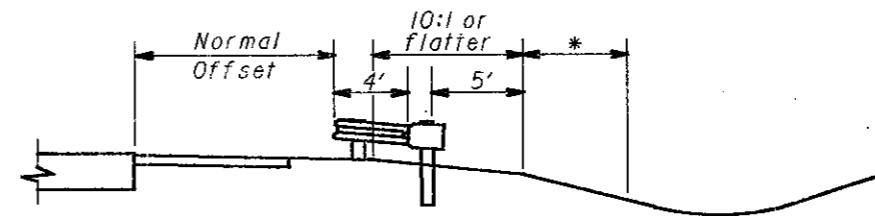
DISTANCES shown as L, T and D shall be constructed as specified in the plans. Distance L is the length of guardrail extending beyond the control point parallel to the roadway centerline. Distance T is the length the guardrail is tapered and distance D is the corresponding offset distance of the taper. See Standard Construction Drawing GR-5.1 for additional details on guardrail flares, T and D. The control points shown designate the extent of the hazard being shielded and is shown for design use only.

THE TYPE B ANCHOR ASSEMBLY shall be installed in accordance with Standard Construction Drawing GR-4.3.

THE OBSTRUCTION INSTALLATION shown is applicable for one-directional roadways only.

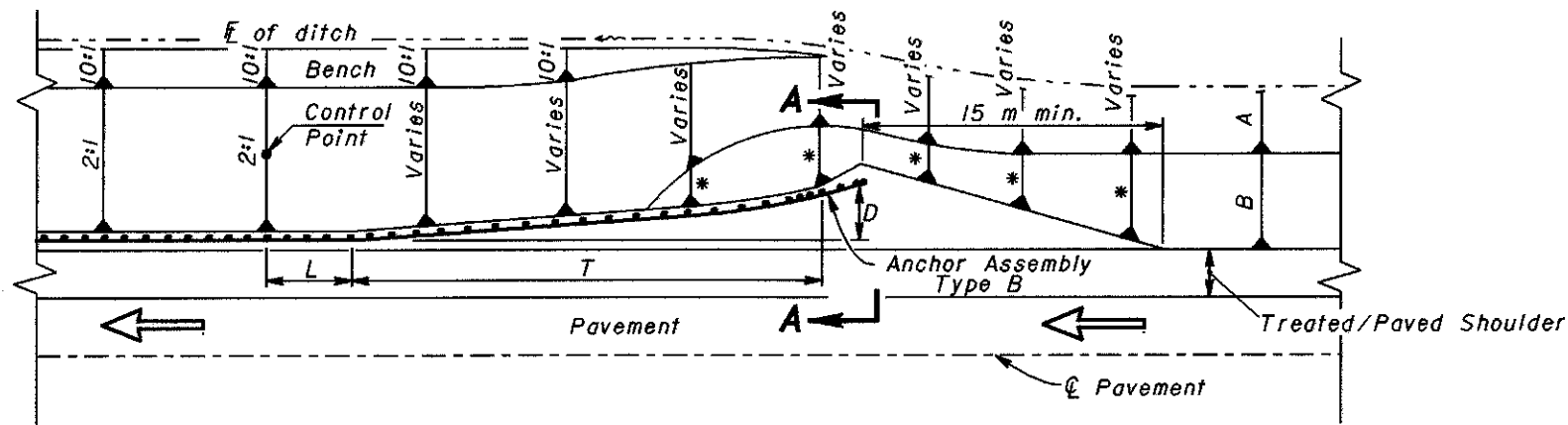


SECTION A-A

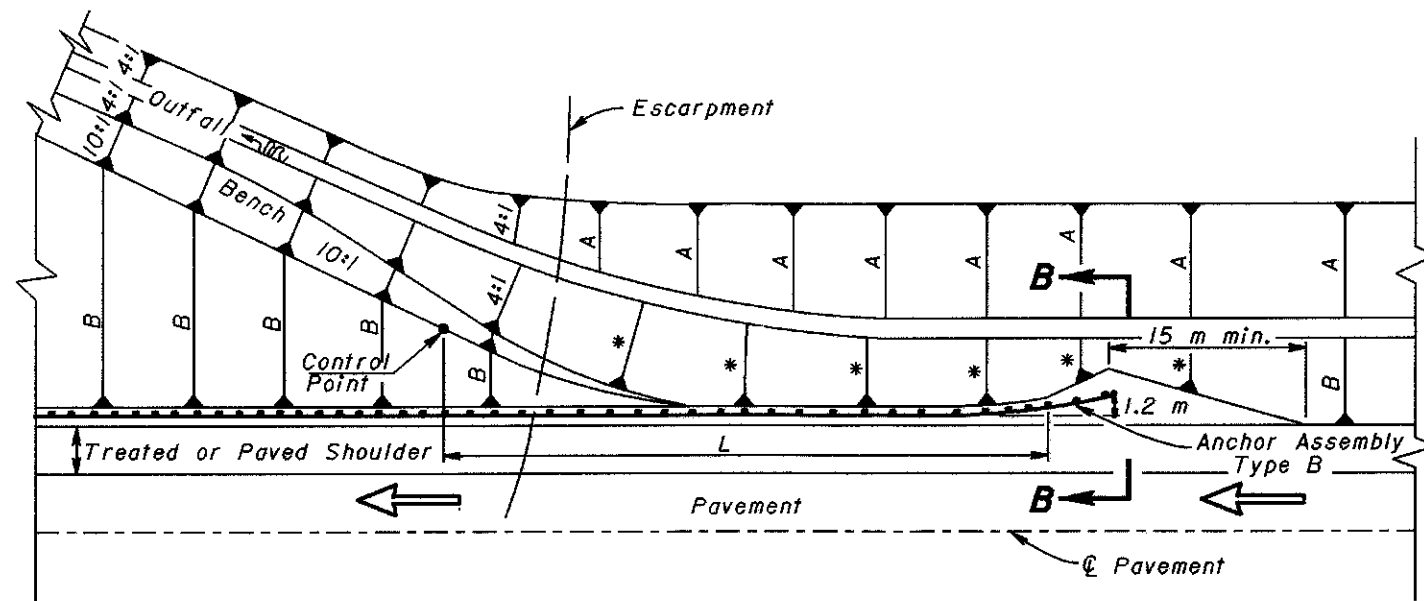


SECTION B-B

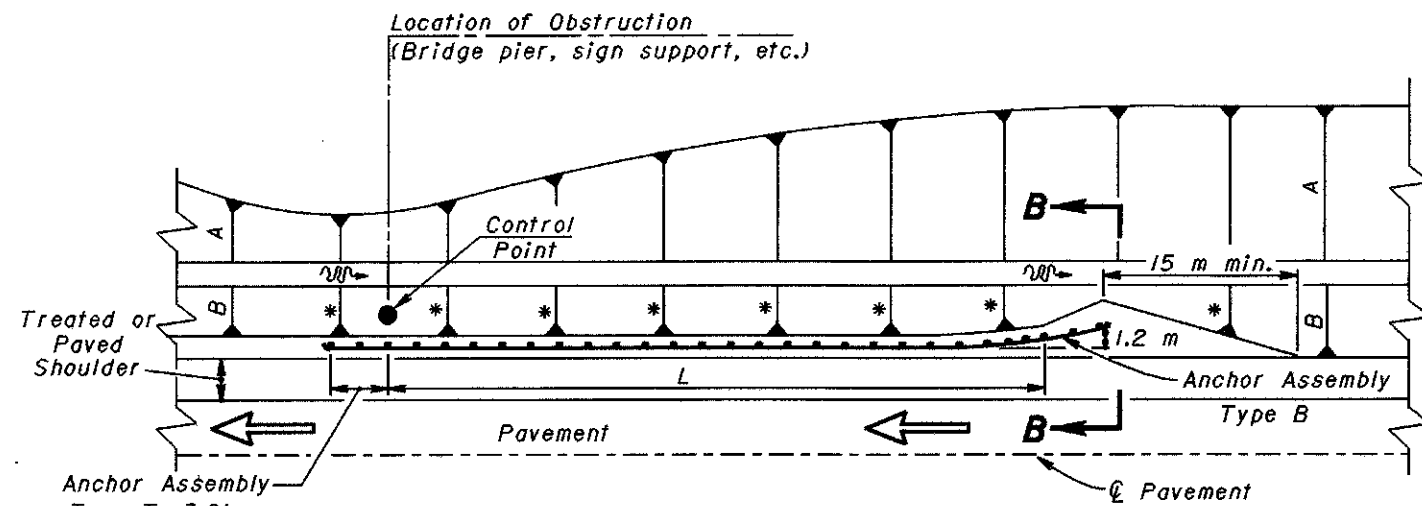
BUREAU OF LOCATION AND DESIGN OHIO DEPARTMENT OF TRANSPORTATION	
INTRODUCTION OF GUARDRAIL RUNS Foreslope 6:1 or flatter	
STANDARD CONSTRUCTION DRAWING	GR-5.2
APPROVED <i>D. K. Hulman</i> ENGR., L. & D.	
DATE 10-30-92	



FILL TO FILL



CUT TO FILL



OBSTRUCTION

NOTES

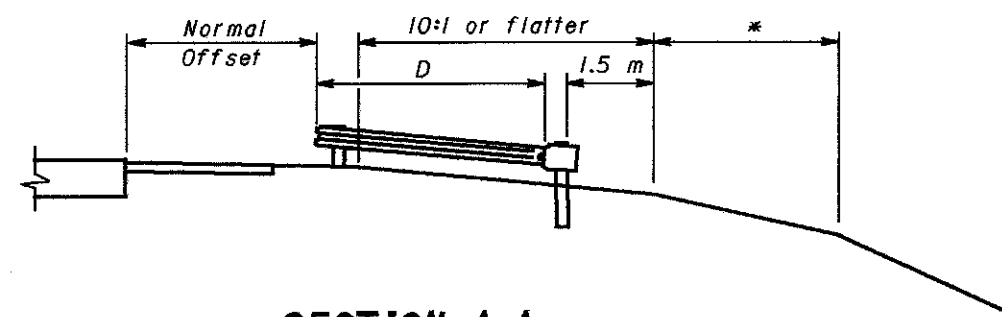
APPLICATION: Application of details shown herein shall only be utilized where approach foreslopes are 6:1 or flatter.

SLOPES: Slopes designated by * shall be 4:1 or flatter. Slopes labeled A or B shall be constructed as specified in the plans.

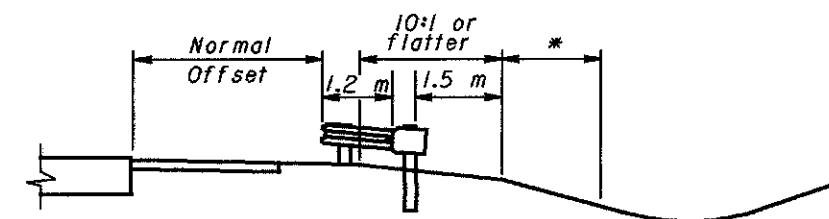
DISTANCES: Distances shown as L, T and D shall be constructed as specified in the plans. Distance L is the length of guardrail extending beyond the control point parallel to the roadway centerline. Distance T is the length the guardrail is tapered and distance D is the corresponding offset distance of the taper. See Std. Constr. Dwg. GR-5.1M for additional details on guardrail flares, T and D. The control points shown designate the extent of the hazard being shielded and is shown for design use only.

ANCHOR ASSEMBLY: A Type B Anchor Assembly shall be installed in accordance with GR-4.3M.

OBSTRUCTION INSTALLATION: The installation shown is applicable for one-directional roadways only.



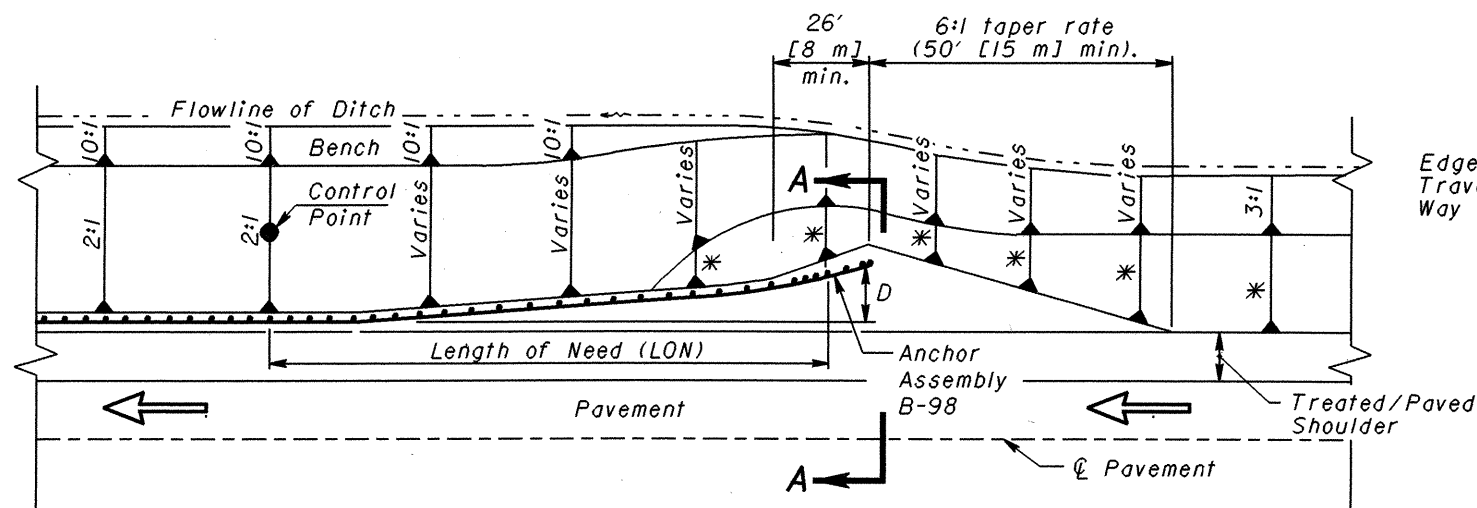
SECTION A-A



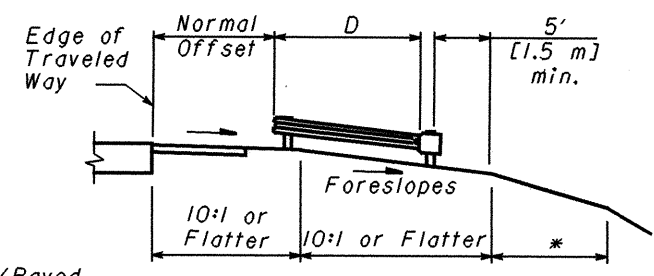
SECTION B-B



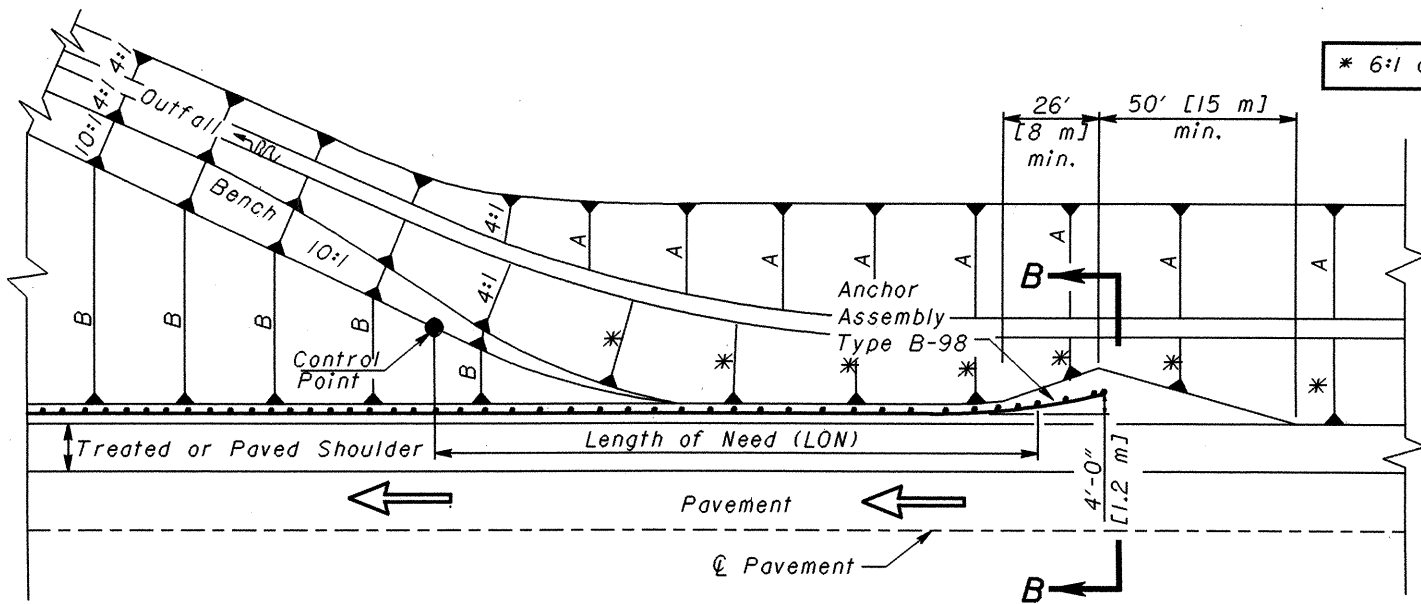
BUREAU OF LOCATION AND DESIGN OHIO DEPARTMENT OF TRANSPORTATION	
INTRODUCTION OF GUARDRAIL RUNS Foreslope 6:1 or flatter	DATE 11-30-94
STANDARD CONSTRUCTION DRAWING	GR-5.2M
APPROVED <i>D. K. Hulman</i>	ENGR., L & D



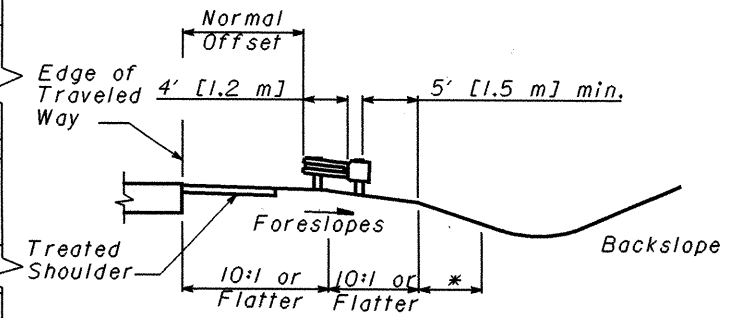
FILL TO FILL



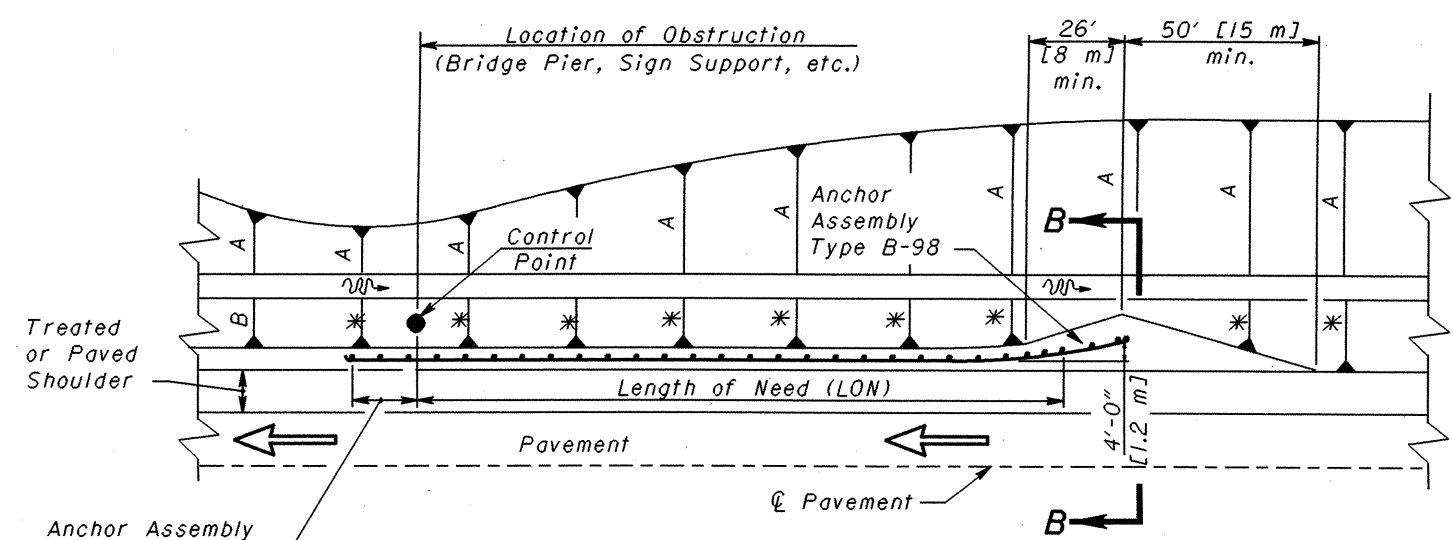
SECTION A-A



CUT TO FILL

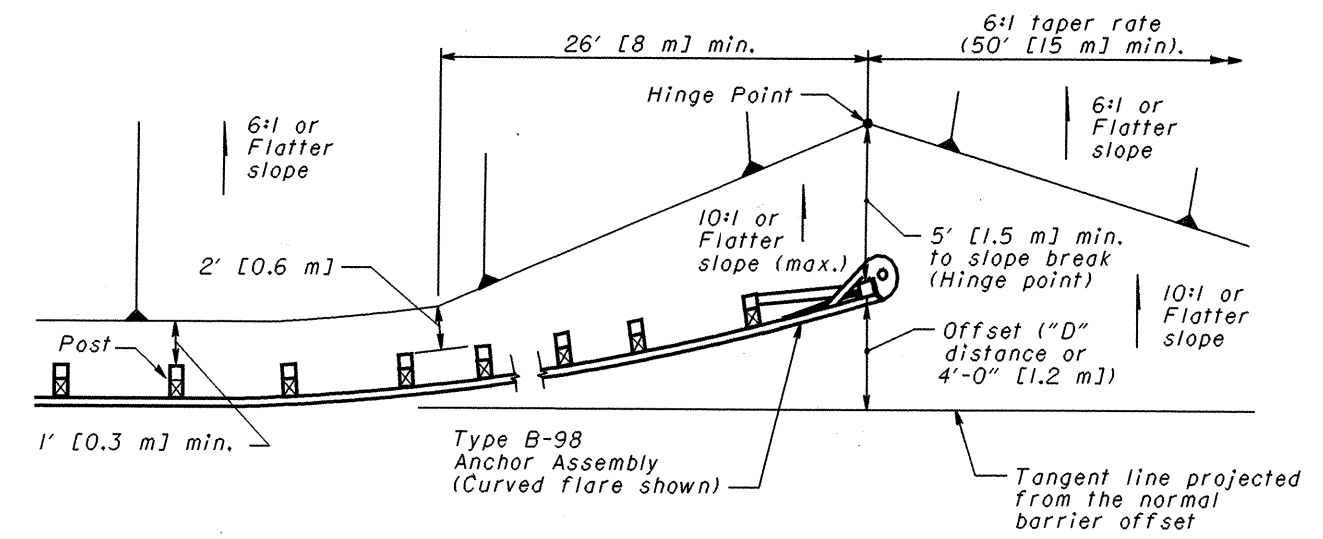


SECTION B-B



OBSTRUCTION

The installation shown is applicable for one-directional roadways only.
(For Obstructions in Fill Conditions, use above details)



GRADING PLAN FOR FLARED ANCHOR ASSEMBLIES

Flared Anchor Assemblies are considered gating terminals, and thus, an area 20' [6 m] by 75' [22 m] behind and beyond should be reasonably traversable and free from fixed objects hazards.

NOTES

APPLICATION: Utilize details shown here only where approach foreslopes are 6:1 or flatter.

SLOPES: Slopes designated by * are 6:1 or flatter. Construct slopes labeled "A" or "B" as specified in the plans.

DISTANCES: The Length of Need, LON, represents the distance from the control point to the beginning of the end treatment. "D" is the lateral offset of the flare.

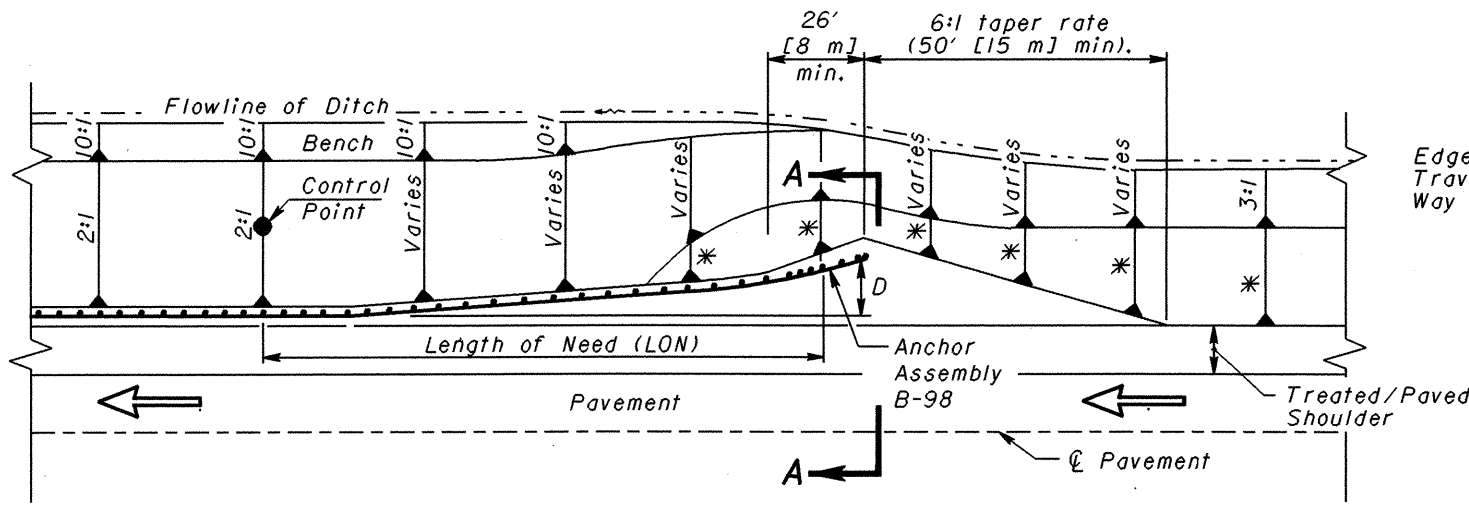
See **SCD GR-5.1** for additional details on guardrail flares. The control point shown designates the extent of the hazard being shielded and is shown for design use only. **Location & Design Manual, Volume I,**

GRADING: The Anchor Assembly shown requires proper grading to function properly. See **GRADING PLAN FOR FLARED ANCHOR ASSEMBLIES** for more information.

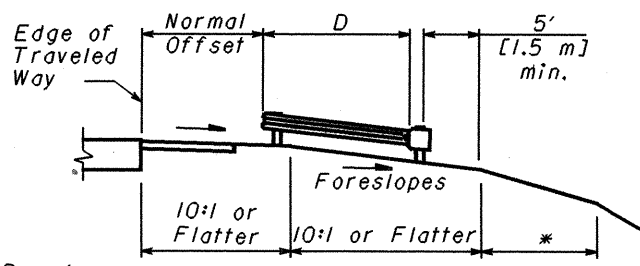
ANCHOR ASSEMBLY: Install Type B-98 Anchor Assemblies according to the Manufacturer's instructions. Products are install either on a curved flare or straight flare.

THIS DRAWING REPLACES GR-5.2M DATED 11-30-94.

STANDARD ROADWAY CONSTRUCTION DRAWING
INTRODUCTION OF GUARDRAIL RUNS
 Foreslope 6:1 or Flatter
 ROADWAY ENGINEERING SERVICES
 ALL metric dimensions (in brackets []) are in millimeters unless otherwise noted.
 STDS. ENGR. D. Focke
 OHIO DEPARTMENT OF TRANSPORTATION
 ROADWAY DESIGN ENGINEER
 4-18-03 DATE



FILL TO FILL



SECTION A-A

NOTES

APPLICATION: Utilize details shown here only where approach foreslopes are 6:1 or flatter.

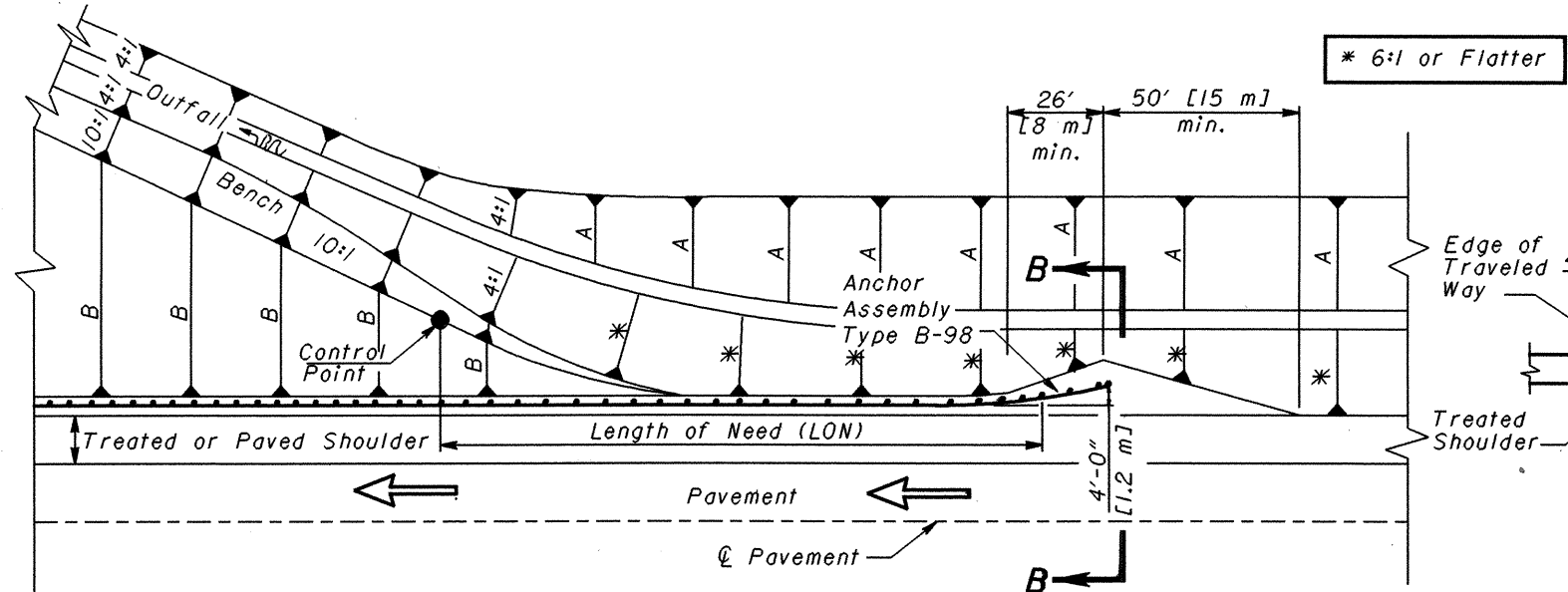
SLOPES: Slopes designated by * are 6:1 or flatter. Construct slopes labeled "A" or "B" as specified in the plans.

DISTANCES: The Length of Need, LON, represents the distance from the control point to the beginning of the end treatment. "D" is the lateral offset of the flare.

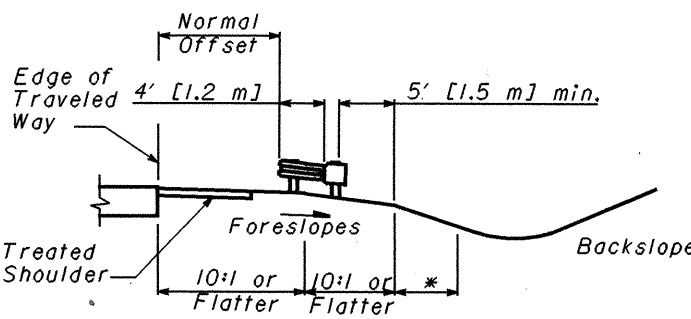
See **SCD GR-5.1** for additional details on guardrail flares. The control point shown designates the extent of the hazard being shielded and is shown for design use only. See **Location & Design Manual, Volume I**, Section 602, for more information.

GRADING: The Anchor Assembly shown requires proper grading to function properly. See **GRADING PLAN FOR FLARED ANCHOR ASSEMBLIES** for more information.

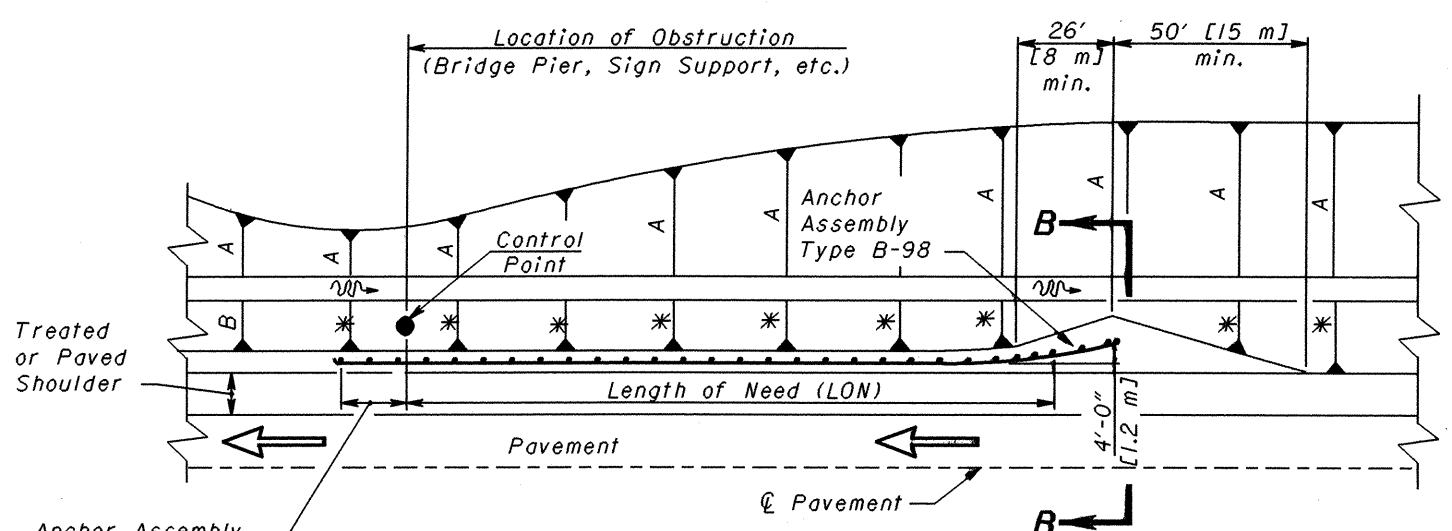
ANCHOR ASSEMBLY: Install Type B-98 Anchor Assemblies according to the Manufacturer's instructions. Products are install either on a curved flare or straight flare.



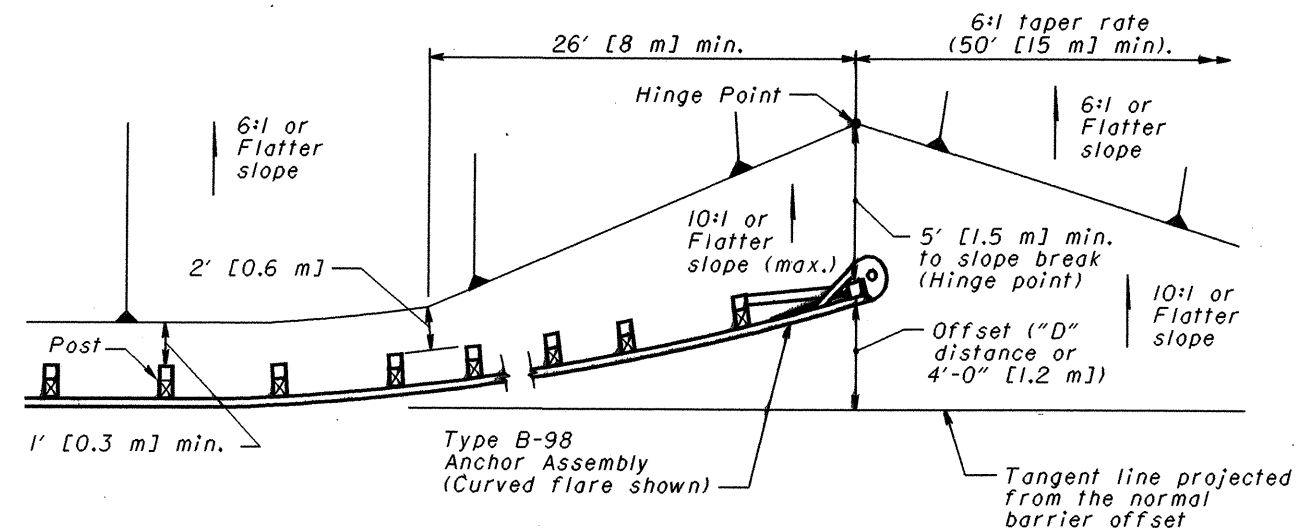
CUT TO FILL



SECTION B-B



OBSTRUCTION



GRADING PLAN FOR FLARED ANCHOR ASSEMBLIES

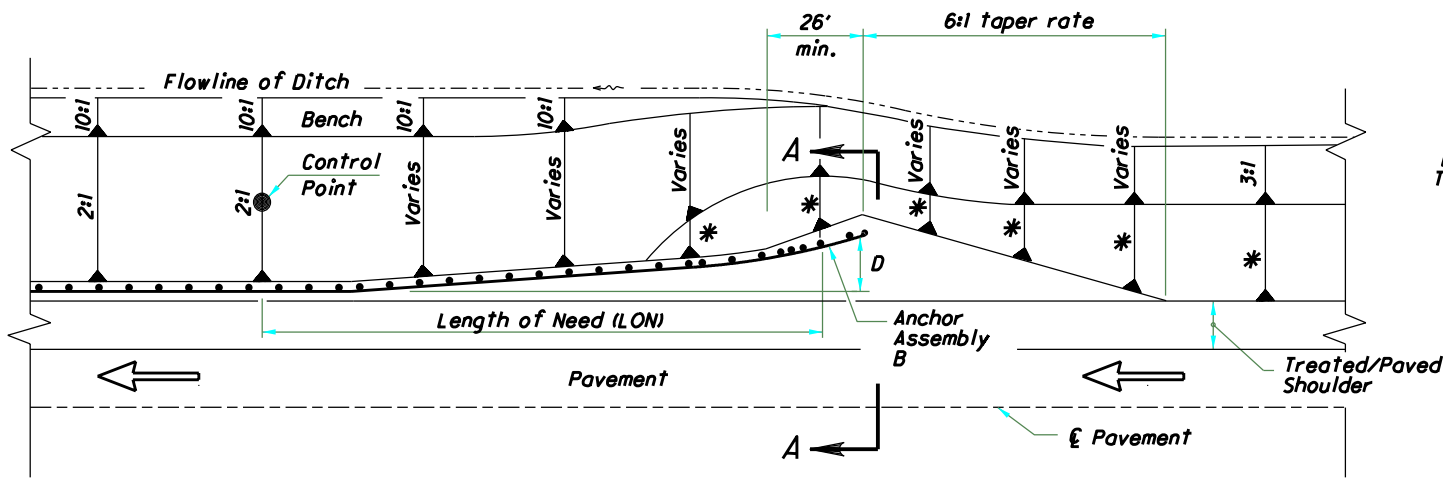
Flared Anchor Assemblies are considered gating terminals, and thus, an area 20' [6 m] by 75' [22 m] behind and beyond should be reasonably traversable and free from fixed objects hazards.

Anchor Assembly Type T, See **SCD GR-4.2**.

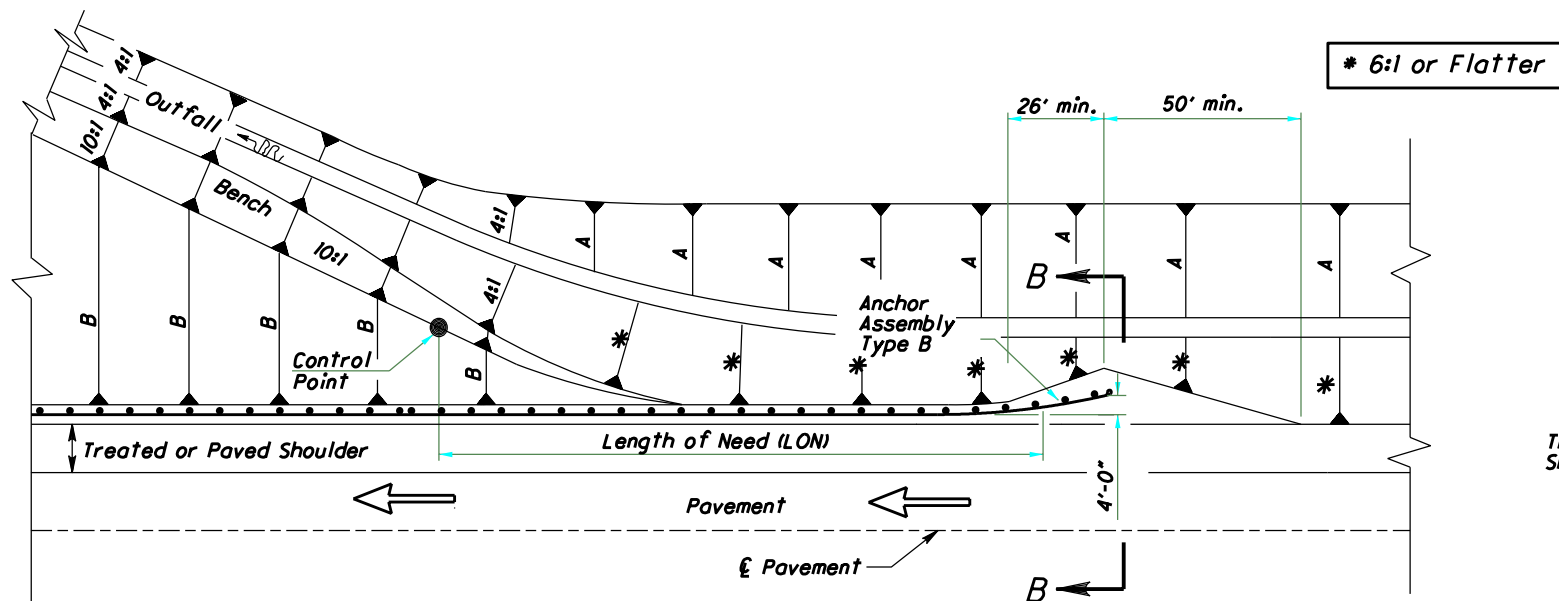
The installation shown is applicable for one-directional roadways only. (For Obstructions in Fill Conditions, use above details)

THIS DRAWING REPLACES GR-5.2 DATED 4-18-03.

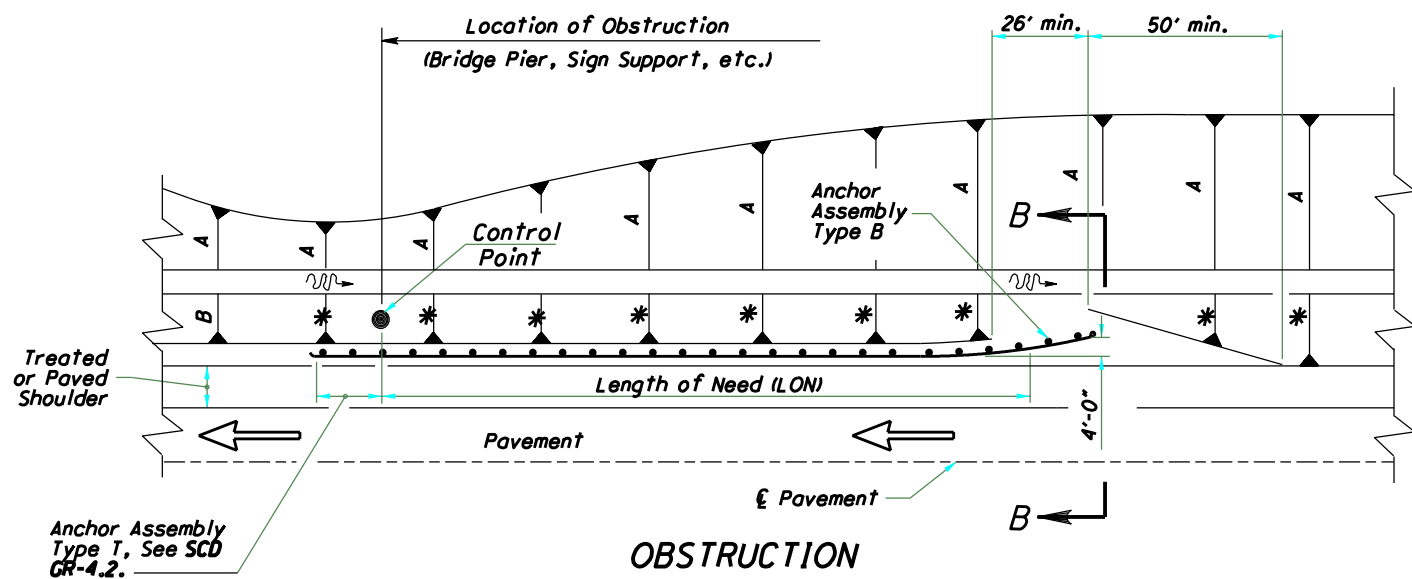
ROADWAY ENGINEERING SERVICES D. Focke	STDS. ENGR.	ILLINOIS DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN ENGINEER	DATE 1-16-04
	ROADWAY CONSTRUCTION DRAWING INTRODUCTION OF GUARDRAIL RUNS Foreslope 6:1 or Flatter	NUMBER GR-5.2	1 / 1



FILL TO FILL

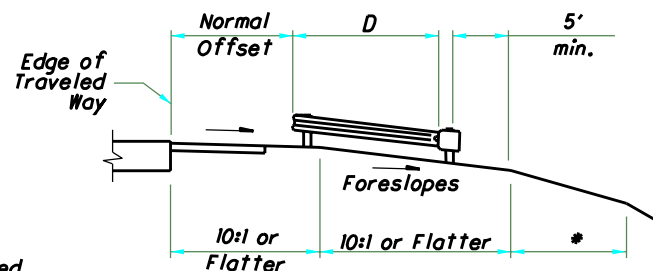


CUT TO FILL

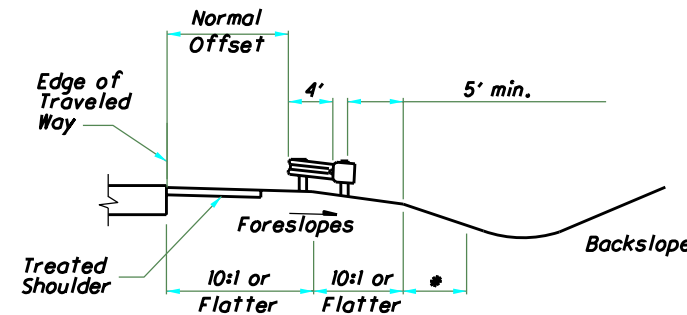


OBSTRUCTION

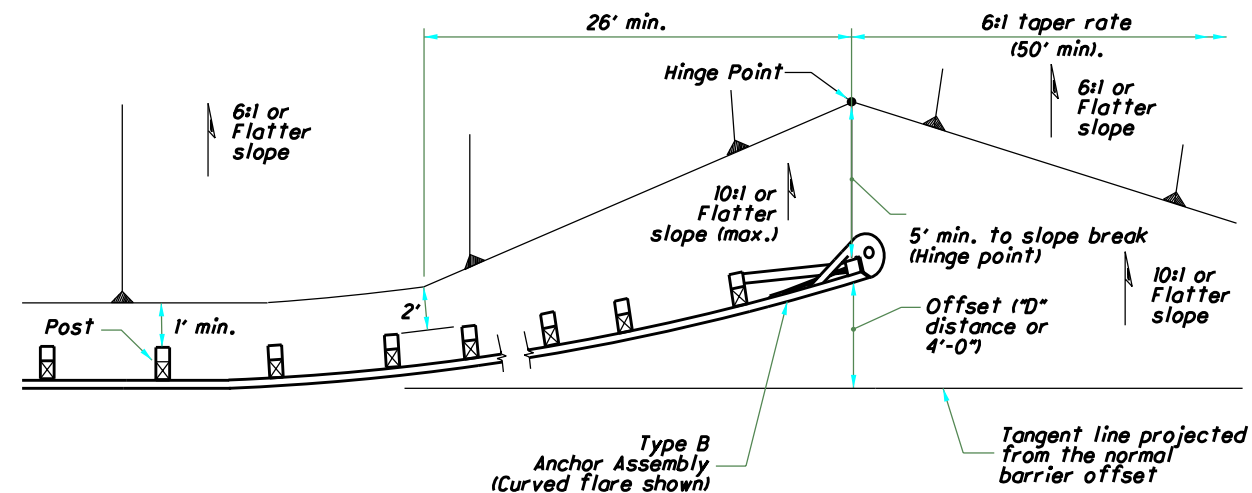
(For Obstructions in Fill Conditions, use above details)



SECTION A-A



SECTION B-B



GRADING PLAN FOR FLARED ANCHOR ASSEMBLIES

Flared Anchor Assemblies are considered gating terminals, and thus, an area 20' by 75' behind and beyond should be reasonably traversable and free from fixed objects hazards.

NOTES

APPLICATION: Utilize details shown here only where approach foreslopes are 6:1 or flatter.

SLOPES: Slopes designated by * are 6:1 or flatter. Construct slopes labeled "A" or "B" as specified in the plans.

DISTANCES: The Length of Need, LON, represents the distance from the control point to the beginning of the end treatment. "D" is the lateral offset of the flare.

See SCD GR-5.1 for additional details on guard-rail flares. The control point shown designates the extent of the hazard being shielded and is shown for design use only. See Location & Design Manual, Volume I, Section 602, for more information.

GRADING: The Anchor Assembly shown requires proper grading to function properly. See GRADING PLAN FOR FLARED ANCHOR ASSEMBLIES for more information.

ANCHOR ASSEMBLY: Install Type B Anchor Assemblies according to the Manufacturer's instructions. Products are install either on a curved flare or straight flare.