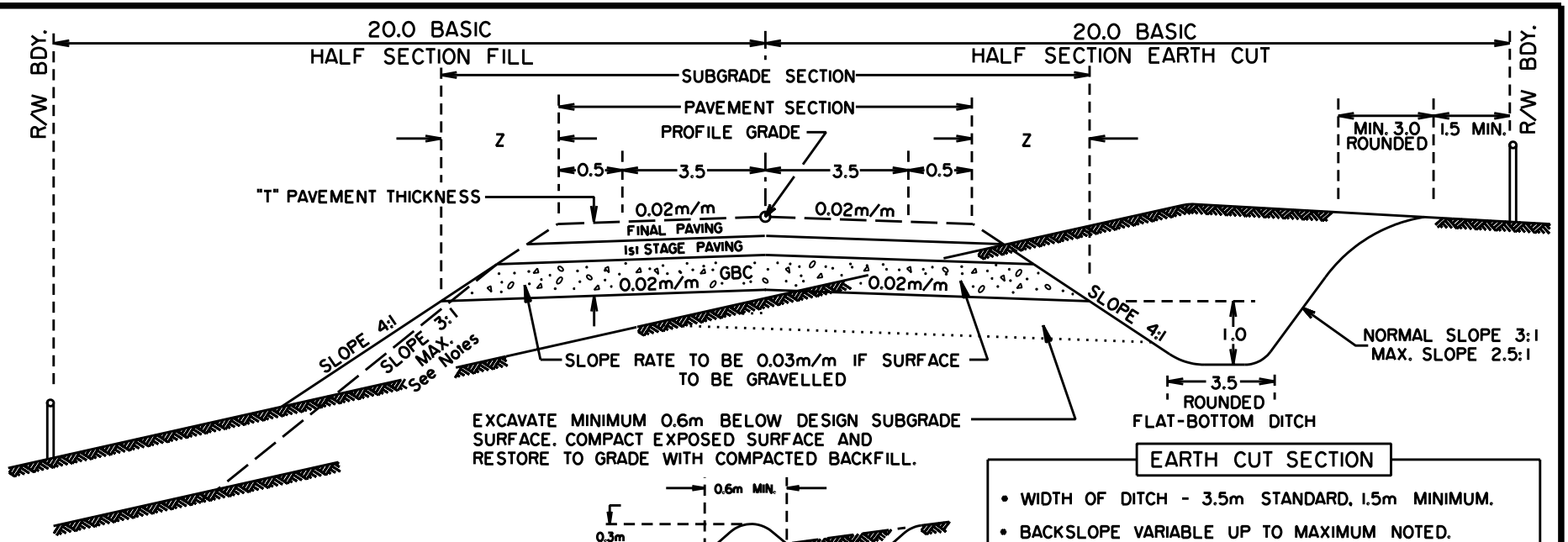
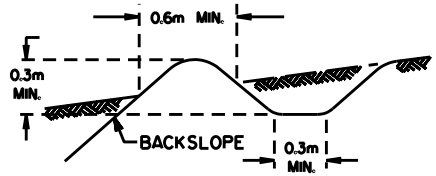
GRAPHICS FILE: cb623m41.man




CATCH WATER DITCHES TO BE CONSTRUCTED WHEN NECESSARY

## EARTH CUT SECTION

- WIDTH OF DITCH - 3.5m STANDARD, 1.5m MINIMUM.
- BACKSLOPE VARIABLE UP TO MAXIMUM NOTED. 1.5m TO BE LEFT BETWEEN TOP OF BACKSLOPE AND RIGHT-OF-WAY LIMIT AS SHOWN.
- DITCH WIDTH AND ROUNDING AT TOP OF BACKSLOPE TO BE INCREASED AT BEGINNING AND END OF CUT SECTIONS FOR AESTHETICS.

## SURFACING DIMENSIONS

- Z = 4T
- WHERE T = THICKNESS OF FULL PAVEMENT STRUCTURE
- FINAL PAVING NORMALLY PLACED WITHIN 5 YEARS OF STAGE 1

NOTES:

1. FOR HIGHWAYS ON SUBSYSTEM 3 WITH DESIGN AADT LESS THAN 200.
2. DESIGN AADT IS THE AADT PROJECTED FOR 20 YEARS AFTER CONSTRUCTION.
3. THE SUBSYSTEMS ARE IDENTIFIED IN ALBERTA'S FUNCTIONAL CLASSIFICATION STUDY.

## FILL SECTION

- 4:1 SLOPES FOR AVERAGE FILLS LESS THAN 4.0m.
- 4:1 SLOPES CAN BE USED ON SHORT SECTIONS OF HIGHWAY FILL UP TO 14m IN HEIGHT (TO ELIMINATE THE NEED FOR GUARDRAIL), PROVIDING THERE ARE NO OBSTRUCTIONS WITHIN OR NEAR THE RIGHT-OF-WAY LIMITS.
- 3:1 SLOPES OR 2:1 SLOPES MAY BE USED UPON APPROVAL IN AREAS WHERE GUARDRAIL IS TO BE INSTALLED.
- THE CHOICE BETWEEN 4:1 SLOPE AND GUARDRAIL INSTALLATION ON HIGH EMBANKMENTS IS GENERALLY MADE BASED ON LIFE-CYCLE COST-EFFECTIVENESS.
- 3:1 SLOPES ARE TO BE USED ON ALL FILLS ADJACENT TO DRAINAGE STRUCTURES OVER 1200mm IN DIAMETER, CATTLE PASSES, OPEN WATER, ETC. WHERE GUARDRAIL INSTALLATION IS NECESSARY FOR HIGHWAY SAFETY.
- TRANSITION BETWEEN SLOPES SHALL BE ATTAINED BY USING UNIFORMLY VARYING SLOPES. GENERALLY THE MINIMUM LENGTH OF TRANSITION SHALL NOT BE LESS THAN 30m.
- BERM ALSO TO BE CONSTRUCTED ADJACENT TO OPEN WATER.

| No. | REVISIONS | BY | DATE |
|---|---|---|---|
| 2 | ADDED SURFACING DIMENSIONS NOTES | TDN | 06/98 |
| 1 | CHANGE IN DESIGN SPEED/FILL NOTES | BK | 06/93 |

Approved:

ORIGINAL SIGNED BY ALLAN KWAN

Executive Director, Technical Standards Branch

Date: DECEMBER 6, 1989

Alberta TRANSPORTATION AND UTILITIES
Engineering Division

SUPERSEDED

# STANDARD CROSS-SECTION FOR RCU-208-110/100

| Prepared By: R.T. | Checked By: BK | Scale: N.T.S. | Dwg No.: CB6-2.3.M41 |
|---|---|---|---|