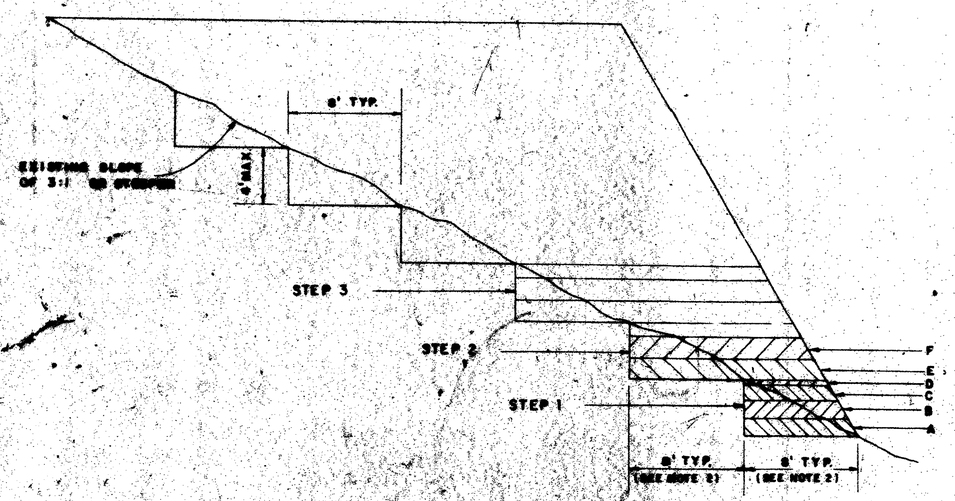
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	NHS-M000-00(438)	62	

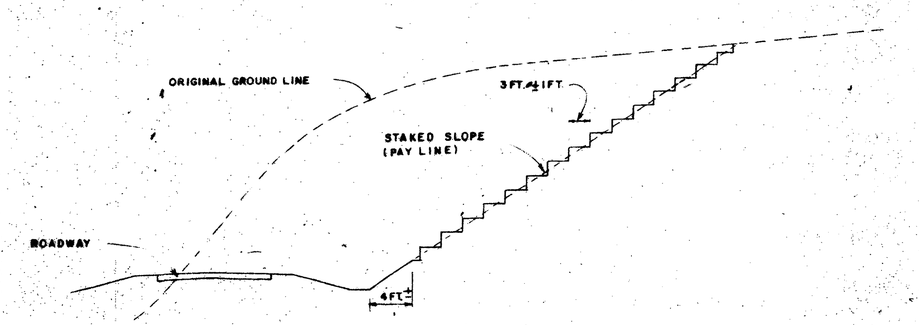
BENCHING DETAIL



NOTES:

1. WHERE THE EMBANKMENT FOUNDATION IS A HILLSIDE OR ANOTHER EXISTING EMBANKMENT HAVING A SLOPE 3 TO 1 OR STEEPER, THE FOUNDATION MUST BE BENCHED, WHILE THE EMBANKMENT IS BEING MADE (SEE DIAGRAM ABOVE).
2. THE DIAGRAM SHOWS THAT BEFORE LAYER "A" IS PLACED THE FIRST STEP (1) IS CUT INTO THE SLOPE A TYPICAL DISTANCE OF ABOUT 8 FEET (ABOUT 3/4 THE WIDTH OF THE NORMAL 8-9 BULLDOZER BLADE). SUCCESSIVE LAYERS B, C AND D ARE THEN PLACED BEFORE LAYER "E" IS PLACED, THE SECOND STEP IS CUT 8 FEET INTO THE SLOPE AND SUCCESSIVE LAYERS ARE AGAIN PLACED. IF IT IS ANTICIPATED THAT THE VERTICAL PART OF THE STEP WILL EXCEED 4 FEET IF AN 8 FOOT HORIZONTAL CUT IS MADE, THEN THE ACTUAL CUT STOPS, WHEN THE VERTICAL PART REACHES A MAXIMUM OF 4 FEET ALLOWING THE HORIZONTAL DISTANCE TO VARY.
3. THE PROCESS OF BENCHING IS CONSIDERED INCIDENTAL TO THE ITEM OF UNCLASSIFIED EXCAVATION AND BORROW IN THE CONSTRUCTING OF THE EMBANKMENT AND NO ADDITIONAL MEASUREMENT OF QUANTITY OR PAYMENT WILL BE MADE FOR BENCHING.
4. SEE ARTICLE 206.03. FOR BENCHING SPECIFICATIONS.

SERRATED SLOPE DETAIL



NO SCALE

NOTES:

1. SLOPES STEEPER THAN 3:1 SHALL BE SERRATED.
2. WIDTH OF STEP SHALL BE 3FT ± 1FT.
3. HEIGHT OF STEP IS A FUNCTION OF WIDTH AND STAKED SLOPE.
4. TREAD OF STEP SHALL BE APPROXIMATELY HORIZONTAL.
5. SERRATED SLOPES SHALL BE USED ON ALL PROJECTS IN DISTRICTS 1,6, AND 7, EXCEPT WHERE SPECIFICALLY EXCEPTED BY THE GEOTECHNICAL BUREAU IN THE SOIL SURVEY REPORT. SERRATED SLOPES SHALL NOT BE USED IN DISTRICTS 2,3,4, AND 5, UNLESS REQUIRED BY THE SOIL SURVEY.

CONSTRUCTION DETAILS

SERRATED SLOPE DETAIL
BENCHING DETAIL

NO SCALE

JULY, 1981