

# NOTES

## DRAINAGE

### SLOPES

IF EXCAVATED MATERIAL IS TO BE USED TO REGRADE DESIGNATED AREAS OR TO FLATTEN SLOPES AND ELIMINATE GUARDRAIL, AS DIRECTED BY THE ENGINEER, THE FOLLOWING PROCEDURE WILL BE FOLLOWED:

- 1) AT THE DECISION OF THE ENGINEER TOPSOIL MAY BE STRIPPED FROM AREAS THAT ARE TO HAVE SLOPES FLATTENED OR FILLED. EXCAVATION AND PLACEMENT OF THIS MATERIAL WILL BE PAID UNDER ITEM 651.35 TOPSOIL.
- 2) THE STATE WILL PAY, AT CONTRACT UNIT PRICES, ANY WORK PERFORMED ON DRAINAGE STRUCTURES WHICH MUST BE EXTENDED OR RAISED.
- 3) AREA WILL BE SEEDED PER FORMULA SHOWN. PAID UNDER APPROPRIATE SEEDING ITEMS.
- 4) EXISTING GUARDRAIL WILL BE REMOVED, REMOVAL TO BE PAID AS ITEM 621.80, REMOVAL OF EXISTING GUARDRAIL. GUARDRAIL WILL NOT BE REMOVED UNTIL AREA IS COMPLETELY FILLED.

NOTE: WHEN THE FLATTENING OF SLOPES IN ONE AREA HAS BEEN STARTED IT SHALL BE COMPLETED BEFORE ANOTHER AREA IS STARTED EXCEPT IN THE FOLLOWING SITUATION:

EXTREME CAUTION WILL BE TAKEN WHEN WORKING NEAR THE DETOURED TRAFFIC LANE WHEN FILLING IN AN AREA. A MINIMUM DISTANCE OF 30' WILL BE MAINTAINED BETWEEN THE WORK AREA AND THE DETOURED TRAFFIC. THIS MAY RESULT IN THE COMPLETION OF THE FILL AREA AFTER THE TRAFFIC HAS BEEN TRANSFERRED TO THE COMPLETED LANES.

THE RESIDENT ENGINEER WILL AT HIS DISCRETION, DESIGNATE SLOPE AREAS TO BE FLATTENED. TO AVOID POSSIBLE ROW LIMITATIONS SLOPE FLATTENING FOR ELIMINATION OF GUARDRAIL WILL TAKE PLACE IN MEDIAN AREAS ONLY. THE EXACT STATIONS AND QUANTITIES WILL BE DETERMINED IN THE FIELD. REVIEW BY THE AGENCY'S ARCHAEOLOGIST AND/OR WETLANDS EXPERTS MAY BE NEEDED BEFORE A LOCATION CAN BE FOUND ACCEPTABLE FOR WASTE DISPOSAL ON OR OFF THE RIGHT-OF-WAY.

### FENCE

- 1) IF ADDITIONAL AREAS OF DOWN OR DAMAGED FENCE ARE ENCOUNTERED, THEY SHALL BE REPLACED UNDER THIS CONTRACT.
- 2) IN AREAS WHERE FENCE IS TO BE CLEARED, AN AREA APPROXIMATELY 5' WIDE SHALL BE CLEARED ON THE STATE'S SIDE OF RIGHT OF WAY. THE COST OF THIS CLEARING SHALL BE PAID UNDER ITEM NO. 201.11 CLEARING & GRUBBING (MOD.). THIS ALSO INCLUDES INDIVIDUAL TREES WITHIN THIS 5' RANGE.
- 3) THE EXISTING FENCE, WHICH INCLUDES POSTS AND FABRIC, THAT IS TO BE REMOVED WILL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REMOVED FROM THE PROJECT LIMITS. NO OLD POSTS WILL BE USED WITH NEW FABRIC.

### GENERAL

1) IF A MINOR PROBLEM, NOT CAUSED BY THE CONTRACTOR'S NEGLIGENCE, WITH DRAINAGE, FENCE OR OTHER ITEMS IS DISCOVERED BY THE ENGINEER, DISTRICT TRANSPORTATION ADMINISTRATOR OR THE CONTRACTOR DURING CONSTRUCTION, WHICH IS NOT NOTED IN THE PLANS, THE PROBLEM SHALL BE CORRECTED UNDER THIS CONTRACT, AS DIRECTED BY THE ENGINEER.

2) CLEARING AND GRUBBING, ITEM 201.10, SHALL INCLUDE ALL CLEAR ZONE AND DRAINAGE AREAS.

- 1) WHEN CONCRETE PIPE IS RELAYED OR EXTENDED, THE FINAL THREE SECTIONS SHALL BE RESTRAINED WITH CONNECTING DEVICES AS DESCRIBED IN SECTION 601.07 OF THE VERMONT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- 2) WHEN IT IS NOTED ON THE PLANS THAT 2-3-4 SECTIONS OF CONCRETE PIPE ARE TO BE RELAYED THIS IS ONLY AN ESTIMATE. AS EXCAVATION IS PERFORMED, THE RESIDENT ENGINEER WILL DETERMINE HOW MUCH MUST BE RELAYED.
- 3) AN ESTIMATED QUANTITY OF CONCRETE PIPE HAS BEEN ADDED TO THE PLANS SO THAT DAMAGED CONCRETE PIPE MAY BE REPLACED INSTEAD OF RELAYED.
- 4) ANY PIPE WHICH IS REMOVED AND NOT RELAYED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE STATE'S RIGHT-OF-WAY.
- 5) TRENCH EARTH AND STONE FILL QUANTITIES SHOWN ON THESE PLANS ARE ESTIMATES ONLY.
- 6) A QUANTITY OF GRANULAR BACKFILL FOR STRUCTURES HAS BEEN ADDED TO THE PROJECT FOR POSSIBLE USE IN RELAYING OR REPLACING PIPES.
- 7) IF END SECTIONS ARE TO BE USED ON R.C.P. PIPES, METAL END SECTIONS OF A LARGER SIZE SHALL BE USED AND PAID AS METAL END SECTIONS. A QUANTITY OF VARIOUS SIZED END SECTIONS HAVE BEEN ESTIMATED FOR USE BY THE RESIDENT ENGINEER.
- 8) SOME OF THE DRAINAGE WORK WILL REQUIRE THE CONTRACTOR TO REMOVE TREES AND BRUSH. THE COST OF THIS WORK WILL BE PAID UNDER THE ITEM 201.10, CLEARING AND GRUBBING.
- 9) AN ESTIMATED QUANTITY OF CLEANING PIPE CULVERTS IN PLACE HAS BEEN ADDED TO THE PROJECT.
- 10) MODIFICATIONS TO EXISTING DROP INLETS OR HEADWALLS TO ACCOMMODATE NEW UNDERDRAIN WILL BE DONE BY MECHANICAL MEANS. MORTAR, TYPE IV, WILL BE USED TO SEAL AROUND THE PIPE. THIS WILL BE PAID UNDER ITEM 204.21, TRENCH EXCAVATION OF ROCK. (SEE SHEET 26 FOR DETAIL.)
- 11) YIELDING MARKER POSTS, ITEM 619.16, SHALL BE USED THROUGHOUT PROJECT.
- 12) ITEM 601.995, CLEANING CULVERT PIPE IN PLACE (MODIFIED) (0-24' DIA. INCLUSIVE): THE MODIFICATION IS TO FLUSH EXISTING UNDERDRAIN AS DIRECTED BY THE ENGINEER.

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