

# GENERAL NOTES

## LEDGE

1. LEDGE REMOVAL EXAMPLES SHOWN ON SHEET 3 ARE EXAMPLES ONLY AND EACH LOCATION MUST BE TREATED TO BEST FIT FIELD CONDITIONS.
2. A MINIMUM OF 4' OF EARTH BORROW OR MATERIAL FROM COMMON EXCAVATION SHALL BE PLACED IN ALL LEDGE CUTS WHERE LEDGE IS REMOVED BEYOND ORIGINAL TOE OF LEDGE FACE AND SEEDED PER SEEDING FORMULA ON SHEET 3. THIS MATERIAL SHALL BE FREE OF STONES OR WOOD WHICH WOULD INTERFERE WITH MOWING OR OTHER MAINTENANCE OPERATIONS PERFORMED BY DISTRICT FORCES.
3. IN AREAS WHERE EXCAVATION IS TO TAKE PLACE IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO KEEP DAMAGE OF EXISTING PAVEMENT TO A MINIMUM ON THE TRAVELED LANES. A QUANTITY OF COLD PLANING-BITUMINOUS PAVEMENT, BITUMINOUS CONCRETE PAVEMENT AND TRAFFIC MARKINGS HAVE BEEN ADDED TO THE CONTRACT FOR TRAVEL LANE OR SHOULDER PAVEMENT REPAIR.
4. SOLID ROCK EXCAVATION FROM THIS PROJECT SHALL BE USED IN THE FOLLOWING MANNER:
  - A) SOLID ROCK EXCAVATION SHALL BE USED AS STONE FILL IN AREAS REQUIRING STONE FILL ON THIS PROJECT.
  - B) SOLID ROCK EXCAVATION SHALL BE USED TO FLATTEN SLOPES AND ELIMINATE GUARDRAIL IN THE MEDIAN AREA. THIS CONTRACT HAS TWO ALTERNATIVE SITES:
    1. THE FIRST ALTERNATIVE (PREFERRED) IS N.B. MM 48.55 TO 48.80. RECORD PLANS WERE NOT AVAILABLE AND NO SECTIONS ARE INCLUDED IN THIS CONTRACT.
    2. THE SECOND ALTERNATIVE IS N.B. MM 45.00 TO MM 45.38. THIS AREA HAS CROSS SECTIONS WHICH ARE INCLUDED IN THIS CONTRACT. THE RESIDENT ENGINEER, THE DISTRICT ADMINISTRATOR AND THE CONTRACTOR SHALL REVIEW BOTH SITES AND SHALL DETERMINE, PRIOR TO CONSTRUCTION, WHICH OF THE TWO SITES SHALL BE UTILIZED AS THE LEDGE DISPOSAL SITE.
  - C) THE RESIDENT ENGINEER MAY APPROVE ADDITIONAL OR ALTERNATE ROCK DISPOSAL AREAS AT HIS DISCRETION. WHEN AN AREA IS TO BE USED AS A ROCK DISPOSAL AREAS, THE FOLLOWING PROCEDURE WILL BE FOLLOWED.
    - C-1) THE TOPSOIL WILL BE REMOVED AND STOCKPILED AS DIRECTED BY THE ENGINEER. THE COST OF THE TOPSOIL REMOVAL SHALL BE PAID AS COMMON EXCAVATION. IF THE SLOPES TO BE FLATTENED REQUIRE CLEARING, THE COST OF THIS SHALL BE PAID AS CLEARING AND GRUBBING.
    - C-2) THE STATE WILL PAY, AT CONTRACT UNIT PRICES, ANY WORK PERFORMED ON DRAINAGE STRUCTURES WHICH MUST BE EXTENDED OR RAISED.
    - C-3) SLOPES WILL BE FLATTENED TO A 1-4 OR FLATTER WITH BLASTED ROCK. (ROW PLANS SHOULD BE CHECKED WHEN STAKING NEW TOES). ABSOLUTELY NO WETLANDS ARE TO BE FILLED IN BY NEW FILL SLOPES.
    - C-4) STOCKPILED TOPSOIL SHALL BE SPREAD OVER NEW ROCK SLOPES TO A DEPTH OF AT LEAST 8". IF THE STOCKPILED TOPSOIL IS INSUFFICIENT TO ACHIEVE AT LEAST AN 8' COVER, EARTH BORROW SHALL BE USED TO COVER ROCK SLOPES ONLY AFTER THE MATERIAL MEETS THE ENGINEERS APPROVAL.
    - C-5) NEW SLOPES WILL BE SEEDED PER FORMULA SHOWN ON SHEET 3.
    - C-6) WHERE SLOPES HAVE BEEN FLATTENED AND MADE TRAVERSIBLE WITH SOLID ROCK EXCAVATION, EXISTING GUARDRAIL SHALL BE REMOVED.
    - C-7) ANY GUARDRAIL TO BE SALVAGED SHALL BE DISMANTLED IN SUCH A WAY THAT ALL COMPONENTS ARE USEABLE. CUTTING COMPONENTS WITH A TORCH OR OTHER METHOD SHALL NOT BE ALLOWED. ALL SALVAGEABLE GUARDRAIL REMOVED FROM DISTRICT #4 WHICH IS NOT USED TO REPAIR DAMAGED GUARDRAIL SECTIONS ON PROJECT SHALL BE DELIVERED TO THE DISTRICT #4 MAINTENANCE YARD IN WINDSOR. IT IS 3 MILES SOUTH OF EXIT 9 ON U.S. RTE 5. ANY SALVAGEABLE GUARDRAIL REMOVED FROM DISTRICT #2 WHICH IS NOT USED TO REPAIR DAMAGED GUARDRAIL SECTIONS ON PROJECT SHALL BE DELIVERED TO DISTRICT #2 GARAGES AT EXIT 7 AND EXIT 8. NON SALVAGEABLE GUARDRAIL OBTAINED FROM PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR THIS SHALL BE PAID FOR UNDER ITEM 621.80, REMOVAL AND DISPOSAL OF GUARDRAIL.
- D) WHEN THE REQUIREMENTS FOR ROCK NOTED IN 'A', 'B', AND 'C' ABOVE HAVE BEEN FULFILLED THE REMAINING SOLID ROCK EXCAVATION SHALL BECOME THE PROPERTY OF THE DISTRICT FROM WHICH IT WAS EXCAVATED, AND SHALL BE TRANSPORTED BY THE CONTRACTOR TO THE FOLLOWING AREAS:
  - D-1) DISTRICT #2 MAINTENANCE GARAGE NEAR EXIT 8 IN ASCUTNEY. SITE WILL HOLD APPROX. 5000 C.Y. ±
  - D-2) DISTRICT #4 MAINTENANCE GARAGE NEAR EXIT 9 IN WINDSOR. SITE WILL HOLD 5,000 TO 10,000 C.Y. ±
  - D-3) DISTRICT #2; IF NEEDED, A SITE IS ALSO AVAILABLE FOR DISPOSAL OF SOLID ROCK EXCAVATION ON THE WEST SIDE OF VT. ROUTE 106 APPROX. 3 MILES SOUTH OF VT. ROUTE 131.

4. D) THE QUANTITIES PRESENTED IN D-1 AND D-2 ABOVE ARE APPROXIMATE AND THE CONTRACTOR SHALL DELIVER AS MUCH LEDGE AS POSSIBLE AT EACH LOCATION. EACH DISTRICT WILL BE RESPONSIBLE FOR THE STOCKPILING OF THE DELIVERED MATERIAL. PAYMENT FOR DELIVERING SHALL BE SUBSIDIARY TO ITEM 203.16, SOLID ROCK EXCAVATION. OTHER LOCATIONS WHERE LEDGE MAY BE DELIVERED FOR THE DISTRICTS MAY BE DESIGNATED BY THE DISTRICT ENGINEERS.
- E) ANY SOLID ROCK EXCAVATION IN EXCESS OF THE REQUIREMENTS OF 'A', 'B', 'C', AND 'D' ABOVE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
5. THE FACES OF ALL LEDGE CUTS, WHERE NO REMOVAL IS TO TAKE PLACE, SHALL BE SCALED OF ALL LOOSE LEDGE. THIS ALSO APPLIES TO LEDGE FACES ON ALL RAMPS. THE FOLLOWING ITEMS HAVE BEEN ADDED TO THE CONTRACT TO PAY FOR THIS WORK:
 

ITEM 608.21	DRAGLINE RENTAL, TYPE II
ITEM 608.26	ALL PURPOSE EXCAVATOR RENTAL TYPE II
ITEM 608.37	TRUCK RENTAL
ITEM 608.37 (MOD.)	TRUCK RENTAL (MODIFIED)
ITEM 608.41	LOADER RENTAL TYPE II

 TRUCK RENTAL (MODIFIED) IS ACTUALLY A WATER TRUCK WITH A PUMP SYSTEM CAPABLE OF PRODUCING A STREAM OF HIGH PRESSURE WATER CAPABLE OF DISLOGGING LOOSE LEDGE.
6. OVERBREAKAGE SHALL BE PAID AS SPECIFIED IN THE VERMONT STANDARD SPECIFICATIONS FOR CONSTRUCTION, UNLESS AUTHORIZED BY THE RESIDENT ENGINEER.

## FENCE

1. IF ADDITIONAL AREAS OF DOWN OR DAMAGED FENCE ARE ENCOUNTERED, THEY SHALL BE REPLACED UNDER THIS CONTRACT.
2. IN AREAS WHERE NEW FENCE IS TO BE INSTALLED, AN AREA APPROXIMATELY 5' WIDE SHALL BE CLEARED ON THE STATES SIDE OF RIGHT OF WAY. THE COST OF THIS CLEARING SHALL BE SUBSIDIARY TO THE COST OF THE NEW FENCE.
3. IN AREAS WHERE EXISTING FENCE IS TO BE REPLACED BY NEW FENCE, THERE SHALL BE ONLY MINIMAL DISTURBANCE TO ADJACENT TREES AND BRUSH.
4. THE EXISTING FENCE, WHICH INCLUDES POSTS AND FABRIC, THAT IS TO BE REMOVED WILL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT LIMITS. THE COST OF REMOVING THE EXISTING FENCE SHALL BE SUBSIDIARY TO THE COST OF THE NEW FENCE WHICH IT REPLACES. ALL EXISTING POSTS SHALL BE REPLACED WHERE NEW FENCE IS TO BE INSTALLED.
5. AN ESTIMATED QUANTITY OF CHAIN LINK FENCE, SIX FOOT HEIGHT, AND A DRIVE GATE FOR WOVEN WIRE FENCE HAVE BEEN ADDED TO THE CONTRACT FOR USE IF A GATE IS FOUND WITHIN AREAS IN WHICH FENCE IS BEING INSTALLED OR REPLACED.
6. IN AREAS WHERE ADJACENT PROPERTY OWNERS HAVE ENCRACHED ONTO HIGHWAY RIGHT-OF-WAY BY HAVING GARDENS, LAWNS, WELL ECT.. THE PROPOSED NEW FENCE SHALL NOT BE INSTALLED UNDER THIS CONTRACT. THE RESIDENT WILL DOCUMENT THE PROBLEM AREAS, PLACING ONE COPY INTO THE PROJECT FILES, ONE COPY SHALL BE SENT TO THE DISTRICT ENGINEER, ONE COPY SENT TO THE AGENCY OF TRANSPORTATION CHIEF OF PROPERTY MANAGEMENT, AND ONE COPY TO THE FHWA.

## MISCELLANEOUS

1. A QUANTITY OF GUARDRAIL, BOTH STEEL BEAM AND THREE CABLE, AS WELL AS GUARDRAIL ANCHORS AND SPECIFIC GUARDRAIL REPAIR ITEMS HAVE BEEN ADDED TO THE CONTRACT. THESE ITEMS ARE TO BE USED BY THE RESIDENT FOR REPAIRING ANY DAMAGED GUARDRAIL ENCOUNTERED IN THE PROJECT AREA.
2. A QUANTITY OF BITUMINOUS CONCRETE PAVEMENT AND PAVEMENT MARKINGS HAVE BEEN ADDED TO THE CONTRACT FOR USE IN AREAS WHERE EXISTING GRANITE CURBING IS BEING REMOVED.
3. STEEL MARKER POSTS SHALL BE USED FOR DRAINAGE WHICH IS LOCATED OUTSIDE THE 30' CLEAR ZONE. DELINEATOR POSTS WITHOUT REFLECTORS SHALL BE USED INSIDE THE 30' CLEAR ZONE AND SHALL BE PAID FOR AS STEEL MARKER POSTS.
4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REMOVE AND RESET MILE MARKER POSTS AND DELINEATOR POSTS WHEN HIS WORK MAY CAUSE DAMAGE TO THEM. PAYMENT FOR THIS SHALL BE SUBSIDIARY TO RELATED CONTRACT ITEMS.
5. WORK AREAS IDENTIFIED IN THE PLANS BY MILE MARKERS ARE APPROXIMATE ONLY.

## DRAINAGE

1. WHEN CONCRETE PIPE IS RELAYED, 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. WHEN PIPE IS EXCAVATED, THE RESIDENT ENGINEER WILL DETERMINE HOW MUCH MUST BE RELAYED.
3. IT IS OUR INTENTION TO REPLACE METAL PIPES WHICH HAVE FAILED, BUT IF PIPE IS IN GOOD CONDITION, THE RESIDENT ENGINEER MAY REQUIRE THAT IT BE RELAYED INSTEAD OF REPLACED.
4. AN ESTIMATED QUANTITY OF CONCRETE PIPE HAS BEEN ADDED TO THE PLANS SO THAT DAMAGED CONCRETE PIPE MAY BE REPLACED INSTEAD OF RELAYED.
5. ALL DRAINAGE EXCAVATION HAS BEEN ESTIMATED AS TRENCH EARTH FOR THIS PROJECT. HOWEVER, A QUANTITY OF TRENCH ROCK HAS BEEN INCLUDED IN THE QUANTITY SHEET IN CASE ROCK IS ENCOUNTERED. A QUANTITY OF STRUCTURE EXCAVATION HAS ALSO BEEN INCLUDED.
6. ANY PIPE WHICH IS REMOVED AND NOT RELAYED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT.
7. STONE FILL REQUIRED FOR THIS PROJECT MAY BE APPROVED BY THE RESIDENT ENGINEER FROM EXCAVATED LEDGE ON PROJECT. THE RESIDENT MAY APPROVE ANY SIZE STONE FOR USE, BUT ALL STONE FILL WILL BE PAID AS EITHER TYPE I, TYPE II, OR TYPE III.
8. IF A PROBLEM WITH DRAINAGE IS DISCOVERED BY THE ENGINEER OR THE CONTRACTOR DURING CONSTRUCTION, WHICH IS NOT NOTED IN THE PLANS, THE PROBLEM SHALL BE CORRECTED UNDER THIS CONTRACT IF ORDERED BY THE ENGINEER.
9. TRENCH EARTH AND STONE FILL QUANTITIES SHOWN ON THESE PLANS ARE ESTIMATES ONLY, NO CROSS SECTIONS HAVE BEEN TAKEN.
10. A QUANTITY OF GRANULAR BACKFILL FOR STRUCTURES HAS BEEN ADDED TO THE PROJECT FOR POSSIBLE USE IN RELAYING OR REPLACING PIPES.
11. WHEN AN EXISTING DROP INLET MUST BE REPAIRED IT WILL BE PAID UNDER THE ITEM CHANGING ELEVATION OF DROP INLETS, CATCH BASINS OR MANHOLES. IF THE REPAIR WORK IS SO EXTENSIVE THAT THE RESIDENT ENGINEER DETERMINES THAT THE ENTIRE DROP INLET SHOULD BE REPLACED THE PAYMENT WILL BE BY CONCRETE CLASS B AND REINFORCING STEEL.
12. IF END SECTIONS ARE TO BE USED ON R.C. PIPES, METAL END SECTIONS OF A LARGER SIZE MAY BE USED AND PAID AS THE END SECTION OF LARGER SIZE (ACTUAL DIAMETER OF METAL END SECTION USED). A QUANTITY OF VARIOUS SIZED END SECTIONS HAVE BEEN ESTIMATED FOR USE BY THE RESIDENT ENGINEER. AN ESTIMATED QUANTITY OF CAST IRON GRATES, TYPE A AND TYPE B HAVE BEEN ADDED TO THE CONTRACT TO BE USED AT THE DISCRETION OF THE ENGINEER.
13. SOME OF THE DRAINAGE WORK WILL REQUIRE THE CONTRACTOR TO REMOVE TREES AND BRUSH AND CONSTRUCT HAUL ROADS. THE COST OF THIS WORK WILL BE SUBSIDIARY TO THE COST OF THE DRAINAGE ITEMS USED IN THESE AREAS.
14. AN ESTIMATED QUANTITY OF EROSION MATTING HAS BEEN ESTIMATED FOR USE IN NEW OR RECONSTRUCTED DITCHES.
15. AN ESTIMATED QUANTITY OF CLEANING PIPE CULVERTS IN PLACE HAS BEEN ADDED TO THE PROJECT.
16. REMOVAL, OR PARTIAL REMOVAL, OF HEADWALLS OF LESS THAN TWO CUBIC YARDS IN SIZE ARE TO BE PAID FOR AS ITEM 529.25 (REMOVAL OF CONCRETE OR MASONRY).

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