

GENERAL NOTES:

1. ALL PROPOSED WORK TO BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY.
2. THE EXISTING CONDITIONS SHOWN ON THE PLAN SHEETS FROM MISSION FARM ROAD TO THE KILLINGTON/BRIDGEWATER TOWN LINE WAS COMPLETED BASED ON A TOPOGRAPHICAL SURVEY. THE EXISTING CONDITIONS BETWEEN THE KILLINGTON/BRIDGEWATER TOWN LINE AND THE END OF PROJECT WAS COMPLETED USING AERIAL PHOTOGRAPHY, RECORD PLANS AND FIELD VERIFICATION. THEREFORE, THE LOCATION OF ALL TOPOGRAPHIC FEATURES SHOWN SHALL BE CONSIDERED APPROXIMATE.
3. THE PLAN SHEETS ARE NOT TO SCALE. THE US ROUTE 4 CENTERLINE SHOWN ON THE PLANS IS A GRAPHICAL REPRESENTATION OF THE CENTERLINE, EXCEPT AT ROCKFALL HAZARD SITE 038.
4. COLD PLANING SHALL BE COMPLETED ACCORDING TO THE TYPICAL SECTIONS OR AS NOTED OTHERWISE ON THE PLANS. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE PROJECT BEGIN AND END, AND AT ALL PAVED SIDE ROAD APPROACHES AS SHOWN ON THE PLANS OR AS OTHERWISE DIRECTED BY THE ENGINEER. ALL SAW CUT JOINTS WILL BE CONSIDERED INCIDENTAL TO ITEM 210.10 COLD PLANING, BITUMINOUS PAVEMENT.
5. ALL NECESSARY SURFACE PREPARATION INVOLVING PATCHING, POT HOLE REPAIR, AND CRACK SEALING SHALL BE PERFORMED FOLLOWING COLD PLANING AND PRIOR TO PAVING. THE PATCHING OF ALL CRACKS GREATER THAN 1.0" AND POT HOLE REPAIR SHALL BE COMPLETED WITH ITEM 900.680 SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I). AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN INCLUDED.
6. GRASS GROWING ADJACENT TO THE PAVEMENT OR THROUGH CRACKS IN THE PAVEMENT, WHICH MAY HAMPER THE PLACEMENT OF NEW BITUMINOUS CONCRETE PAVEMENT, SHALL BE REMOVED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK WILL NOT BE MADE DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
7. THE CONTRACTOR SHALL USE CAUTION WHEN COLD PLANING AND PAVING OPERATIONS OCCUR ON BRIDGE DECKS. SHOULD ANY DAMAGE OCCUR TO THE DECK, JOINTS OR MEMBRANE AS A RESULT OF THESE OPERATIONS THE ENGINEER SHALL CONTACT THE VAOT CONSTRUCTION STRUCTURES ENGINEER TO PROVIDE AN ASSESSMENT OF THE DAMAGE AND RECOMMEND ANY NECESSARY REPAIRS. THE CONTRACTOR SHALL PERFORM THE RECOMMENDED REPAIRS AT NO ADDITIONAL COST TO THE STATE.
8. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = 1/4" +/- SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C)(PG 70-28)(SBS POLYMER)(3/4" +/- 1/8" LIFT THICKNESS), TOLERANCE = 1/8" +/-
9. EMULSIFIED ASPHALT SHALL BE APPLIED ON THE COLD PLANED SURFACE AT A RATE OF 0.080 GAL/SY AND BETWEEN ALL PAVED SURFACES AT A RATE OF 0.025 TO 0.040 GAL/SY OR AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE UNDER THE OPTION ITEMS FOR EMULSIFIED ASPHALT. EMULSIFIED ASPHALT BETWEEN THE SUPERPAVE SURFACE AND THE PAVER PLACED SURFACE TREATMENT AND BETWEEN THE MICROMILLED SURFACE AND THE PAVER PLACED SURFACE TREATMENT WILL BE PAID FOR UNDER ITEM 900.675 SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C)(PG 70-28)(SBS POLYMER)(3/4" +/- 1/8" LIFT THICKNESS).
10. THE WEARING COURSE SHALL BE SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C)(PG 70-28)(SBS POLYMER)(3/4" +/- 1/8" LIFT THICKNESS) AND THE INTERMEDIATE COURSE SHALL BE TYPE III SUPERPAVE BITUMINOUS CONCRETE PAVEMENT. ALL ASPHALT CEMENT USED IN THE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT SHALL BE AS SPECIFIED IN SUBSECTION 490.03(b), EXCEPT THAT GRADE OF PG BINDER SHALL BE PG 70-28.
11. ALL SIDE ROADS ARE TO BE PAVED 25 FEET FROM THE EDGE OF SHOULDER UNLESS OTHERWISE SPECIFIED IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
12. ALL EDGES OF PAVEMENT SHALL BE BACKED UP FULL HEIGHT AND PAID UNDER THE AGGREGATE SHOULDER OPTION ITEMS.
13. ALL PAVED AND GRAVEL DRIVES SHALL RECEIVE A FOUR FOOT PAVED APRON UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ALL REQUIRED EXCAVATION IN DRIVE AREAS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE NEW BITUMINOUS CONCRETE DRIVE SURFACE SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER AND WILL BE PAID FOR UNDER ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES). BITUMINOUS CONCRETE MATERIAL PLACED BY MECHANICAL METHODS AT THESE LOCATIONS IS EXCLUDED. ALL OTHER BITUMINOUS CONCRETE MATERIAL PLACED WITHIN THE PROJECT LIMITS, BY HAND OR MECHANICAL METHODS, WILL BE PAID UNDER THE APPROPRIATE CONTRACT PAY ITEM FOR SUPERPAVE BITUMINOUS CONCRETE PAVEMENT OR SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C)(PG 70-28)(SBS POLYMER)(3/4" +/- 1/8" LIFT THICKNESS) AS APPLICABLE.

14. THE CONTRACT UNIT PRICE FOR ITEM 301.28 SUBBASE OF CRUSHED GRAVEL, FINE GRADED, ITEM 651.35 TOPSOIL AND THE AGGREGATE SHOULDER OPTION ITEMS SHALL INCLUDE COMPACTION, GRADING, AND CLEAN UP OF THE MATERIALS PLACED.
15. ITEMS 604.412 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I AND 604.415 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II ARE ESTIMATED ITEMS AND SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER. ALL DI'S SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION MATCHES WITH THE SURROUNDING TERRAIN. DRAINAGE STRUCTURES CALLING FOR REHABILITATION HAVE BEEN DISTRIBUTED BETWEEN ITEMS 604.412 AND 604.415. FOR ESTIMATING PURPOSES THE DISTRIBUTION IS AS FOLLOWS: 604.412 80%, 604.415 20%.
16. AN ESTIMATED QUANTITY OF ITEM 608.15 POWER GRADER RENTAL HAS BEEN INCLUDED FOR REMOVING BUILT UP SAND, SOD ETC. ADJACENT TO THE SHOULDER, IN NON-GUARDRAIL AREAS, TO ALLOW FREE DRAINAGE OFF THE SHOULDER.
17. ITEM 203.40 SHOULDER BERM REMOVAL HAS BEEN INCLUDED FOR THE REMOVAL OF BUILT UP SAND, SOD, ETC ADJACENT TO THE SHOULDER, IN GUARDRAIL AREAS, TO ALLOW FREE DRAINAGE OFF THE SHOULDER.
18. AN ESTIMATED QUANTITY OF ITEM 619.17 YIELDING MARKER POSTS HAS BEEN INCLUDED TO DELINEATE PIPE INLETS, PIPE OUTLETS AND DROP INLETS LOCATED OUTSIDE OF THE PAVEMENT SURFACE OR AS DIRECTED BY THE ENGINEER.
19. STEEL BEAM GUARDRAIL WITH STEEL POSTS SHALL BE USED ON THIS PROJECT. WOOD OR SYNTHETIC OFFSET BLOCKS SHALL BE USED. ALL EXISTING GUARDRAIL SHALL BE RETAINED UNLESS OTHERWISE NOTED.
20. A 3'-7" OF BACKING IS REQUIRED BEHIND THE FACE OF GUARDRAIL WITH SIX FOOT POSTS. IF THIS CANNOT BE OBTAINED THEN EIGHT FOOT POSTS SHALL BE USED. PAYMENT WILL BE MADE UNDER ITEM 621.20 STEEL BEAM GUARDRAIL, GALVANIZED, AND ITEM 621.75 REMOVE AND RESET GUARDRAIL.
21. ESTIMATED QUANTITIES OF ITEM 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I, ITEM 608.37 TRUCK RENTAL AND ITEM 608.40 LOADER RENTAL, TYPE I HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL FLARES. 25 CUBIC YARDS OF ITEM 203.30 EARTH BORROW HAS BEEN INCLUDED TO PROVIDE FOR FLARE CONSTRUCTION. THE GUARDRAIL FLARES SHALL BE CAPPED WITH TWO INCHES OF TOPSOIL UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
22. PAVEMENT MARKINGS ARE OPTIONED FOR THIS PROJECT. THE CONTRACTOR SHALL BID THE SAME PAVEMENT MARKING MATERIAL FOR ALL DURABLE 4 INCH WHITE, DURABLE 4 INCH YELLOW, DURABLE 8 INCH WHITE, DURABLE 4 INCH YELLOW AND DURABLE 24 INCH STOP BAR ITEMS. ALL PAVEMENT MARKINGS ARE PICTORIAL ONLY, ACTUAL SIZES SHOULD MATCH STANDARD DETAILS.
23. ITEM 646.76 LINE STRIPING TARGETS SHALL BE PLACED AS SPECIFIED IN THE CONTRACT DOCUMENTS FOR THE PLACEMENT OF THE WHITE EDGE LINES AND YELLOW CENTER LINES.
24. AN ESTIMATED QUANTITY OF ITEM 676.10 DELINEATOR WITH STEEL POST HAS BEEN INCLUDED TO REPLACE DELINEATORS FOUND TO BE MISSING OR IN NEED OF REPLACING.
25. ALL RUMBLE STRIPS SHALL RECEIVE TWO APPLICATIONS OF ITEM 900.683 SPECIAL PROVISION (FOG SEAL SURFACE TREATMENT) AT A RATE OF 0.15 GAL/SY WITH A TOLERANCE OF +/- 0.05 GAL/SY OR AS DIRECTED BY THE ENGINEER.

TRAFFIC SIGN NOTES:

26. ALL SIGNS SHALL BE DESIGNED IN ACCORDANCE WITH THE 2009 MUTCD, THE VAOT STANDARDS DRAWINGS AND AS DETAILED IN THE PLANS. IN THE EVENT OF A CONFLICT IN THE GUIDELINES, THE SIGNS SHALL BE DESIGNED AS DIRECTED BY THE ENGINEER.
27. ALL LETTERS AND NUMBERS USED FOR ALL SIGNS SHALL CONFORM TO THE APPLICABLE FONT AS DEFINED AND DETAILED IN THE 2004 SHSM AND THE 2012 SUPPLEMENT.
28. ALL ARROWS AND SYMBOLS SHALL CONFORM TO THE 2004 SHSM AND THE 2012 SUPPLEMENT UNLESS OTHERWISE DETAILED IN THE PLANS.
29. COLORS USED ON ALL SIGNS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1A.12 OF THE MUTCD, UNLESS OTHERWISE NOTED IN THE PLANS.
30. SIGN SHEETING OF FLUORESCENT YELLOW AND FLUORESCENT YELLOW GREEN SHALL BE AASHTO M268 (ASTM D4956) TYPE IX. ALL OTHER SIGN SHEETING SHALL BE TYPE III OR IV.

31. SHEETING TYPES AND MANUFACTURERS SHALL NOT BE MIXED ON A SINGLE SIGN ASSEMBLY. SHEETING COLOR/TYPE SHALL BE BY THE SAME MANUFACTURER AND BE CONSISTENT THROUGHOUT THE PROJECT UNLESS OTHERWISE DETAILED IN THE PLANS.
32. ALL NEW SIGN POSTS SHALL BE INSTALLED IN A NEW ANCHOR. ALL SIGNS INSTALLED IN PAVED OR CONCRETE ISLANDS SHALL ALSO BE INSTALLED WITH AN 18" SLEEVE. PAYMENT OF THE SLEEVE WILL BE CONSIDERED INCIDENTAL TO ITEM 675.341 SQUARE TUBE SIGN POST AND ANCHOR.
33. 1.75" SQUARE STEEL POSTS SHALL BE 14 GAUGE STEEL. 2.0" AND 2.5" SQUARE STEEL POSTS SHALL BE 12 GAUGE STEEL.
34. SIGN LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
35. ALL SIGN PLACEMENT SHALL BE IN CONFORMANCE WITH VTRANS STANDARD E-121 STANDARD SIGN PLACEMENT CONVENTIONAL ROADS, UNLESS OTHERWISE NOTED.
36. ALL SIGNS, FRAMES, MOUNTING HARDWARE, POSTS AND ANCHORS FOR ANY SIGN ASSEMBLY SHALL BE REPLACED AT THE SAME TIME. MIXING OF OLD AND NEW SIGNS ON THE SAME ASSEMBLY SHALL NOT BE ALLOWED EXCEPT AS NOTED ON THE PLANS.
37. OM3-R AND OM3-L OBJECT MARKERS SHALL BE INSTALLED USING BOLTS. RIVETS SHALL NOT BE ALLOWED FOR THE FASTENING OF OBJECT MARKERS.

UTILITY NOTES:

38. EXISTING UNDERGROUND AND AERIAL FACILITIES ARE LOCATED THROUGH THE ENTIRE PROJECT AREA. OWNERSHIP OF THESE FACILITIES INCLUDE OPERATIONAL UTILITY COMPANIES, MUNICIPALITIES AND INDIVIDUAL PROPERTY OWNERS. THE CONTRACTOR IS CAUTIONED TO PROTECT THESE FACILITIES FROM DAMAGE. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO THESE UTILITIES AS A RESULT OF THE CONTRACTOR'S OPERATION AT NO COST TO THE STATE.
39. EXISTING UNDERGROUND AND AERIAL FACILITIES HAVE BEEN SHOWN ON THE PLANS WHERE TOPOGRAPHICAL SURVEY WAS OBTAINED. ALL OTHER UTILITIES HAVE BEEN SHOWN BASED ON RECORD PLANS.

ALL UTILITIES SHOWN ON THE PLANS HAVE BEEN PLOTTED TO QUALITY LEVEL "D", EXCEPT FOR THE FOLLOWING LOCATIONS, WHICH HAS BEEN PLOTTED TO QUALITY LEVEL "C": K 398+80 - B 6+00, 101+50 - B112+00, B 127+50 - B 143+50, B 164+50 - B 173+50, B 182+00 - B 192+50, B 206+50 - B 213+50, B 257+50 - B 267+50, W 20+00 - W 86+00.

UTILITY QUALITY LEVEL INFORMATION INDEX (SEE ASCE/CI 38-02):

UTILITY QUALITY LEVEL A:
PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. MINIMALLY INTRUSIVE EXCAVATION EQUIPMENT IS TYPICALLY USED TO MINIMIZE THE POTENTIAL FOR UTILITY DAMAGE. A PRECISE HORIZONTAL AND VERTICAL LOCATION, AS WELL AS OTHER UTILITY ATTRIBUTES, IS SHOWN ON PLAN DOCUMENTS. ACCURACY IS TYPICALLY SET TO 0.05 FEET (15-MM) VERTICAL AND TO APPLICABLE HORIZONTAL SURVEY AND MAPPING ACCURACY AS DEFINED OR EXPECTED BY THE PROJECT OWNER. INFORMATION IS ONLY VALID WITHIN THE VISIBLE LIMITS OF THE TEST HOLE.

UTILITY QUALITY LEVEL B:
INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. QUALITY LEVEL B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

UTILITY QUALITY LEVEL C:
INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.

UTILITY QUALITY LEVEL D:
INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

40. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THAT THE CONTRACTOR'S OPERATIONS SHALL IN NO WAY WEAKEN OR DAMAGE PROPERTY OF THE UTILITY. ANY DAMAGE TO THE PROPERTY OF THE UTILITY AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR TO THE FULL SATISFACTION OF THE OWNER OF THE UTILITY. SEE THE UTILITY SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

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PROJECT NOTES SHEET		SHEET	4 OF 146