

GENERAL WATER AND SEWER NOTES

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS. ADDITIONAL REFERENCE IS MADE TO THE FOLLOWING DOCUMENTS:
 - STATE OF VERMONT, AGENCY OF TRANSPORTATION-STANDARD DRAWINGS AND STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011.
 - STATE OF VERMONT, AGENCY OF NATURAL RESOURCES - WATER SUPPLY RULE, DATED 2010.
 - STATE OF VERMONT, AGENCY OF NATURAL RESOURCES - WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES, DATED 2007.
 - STATE OF VERMONT, DEPARTMENT OF ENVIRONMENTAL CONSERVATION STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL, DATED 2006.
 - AMERICAN WATER WORKS ASSOCIATION STANDARDS - AWWA STANDARDS, LATEST EDITIONS.
 - AMERICAN SOCIETY FOR TESTING AND MATERIALS - ASTM, LATEST EDITIONS.
2. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR IN THE GROUND, WITHIN THE CONSTRUCTION AREA, AND SHALL COORDINATE WITH THE OWNERS OF SAID UTILITIES. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES. RELOCATION OF ANY UTILITY, IF REQUIRED, SHALL BE ONLY AS DIRECTED BY THE OWNER OF SAID UTILITY. UTILITIES THAT ARE DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT NO COST TO THE STATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL ARRANGEMENTS FOR ANCHORING, SUPPORTING, AND/OR RELOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. SEE UTILITY SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR DESIGN ENGINEER HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND PAYMENT OF ALL NECESSARY PERMITS AT NO COST TO THE STATE.
5. A QUANTITY OF 204.21 TRENCH EXCAVATION OF ROCK HAS BEEN INCLUDED AS A CONTINGENCY FOR REMOVAL OF BOULDERS IF ENCOUNTERED.
6. ALL EXCAVATIONS SHALL COMPLY WITH OSHA AND VERMONT OSHA REQUIREMENTS.
7. NO WORK WILL TAKE PLACE UNLESS THE OWNER'S REPRESENTATIVE IS PRESENT. THE OWNER RESERVES THE RIGHT TO REJECT ANY AND ALL WORK NOT MEETING THIS REQUIREMENT.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL ENGINEERING AND RELATED COSTS ASSOCIATED WITH ANY DESIGN ALTERNATIVES IN ACCORDANCE WITH SUBSECTION 105.30 OF THE SPECIFICATIONS. DESIGN ALTERNATIVES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND ACCEPTANCE PRIOR TO IMPLEMENTATION.
9. THE CONTRACTOR SHALL MAINTAIN "RED LINE" DRAWINGS DURING CONSTRUCTION THAT REFLECT LOCATIONS AND ELEVATIONS OF INSTALLED WORK TO INCLUDE AT A MINIMUM, PIPE INVERTS, WATER CORPORATION STOPS, AND TEE LOCATIONS.
10. TEMPORARY BYPASS UTILITIES OR TEMPORARY MODIFICATIONS TO THE EXISTING SYSTEMS MAY BE NECESSARY TO ACCOMMODATE THE INSTALLATION OF NEW SEWER, WATER MAIN AND SERVICE CONNECTIONS. THIS WORK WILL BE PAID UNDER ITEM 629.42 TRANSFER TO NEW SYSTEM, WATER SYSTEM OR ITEM 628.42 TRANSFER TO NEW SYSTEM, SANITARY SEWER.
11. NO VERTICAL DEPTH FACTOR WILL APPLY TO EARTHWORK EXCAVATION OR BACKFILL FOR WATER OR SEWER WORK.
12. BUY AMERICA REQUIREMENTS APPLY TO ALL STEEL AND IRON PRODUCTS. SEE SUBSECTION 107.22 OF THE SPECIFICATIONS.

WORK LIMITATIONS IN ROADWAY

1. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY THE WORK AT ALL TIMES.
2. ALL CROSS-COUNTRY EXCAVATIONS SHALL BE THOROUGHLY SECURED WITH STEEL PLATES ON A DAILY BASIS BY THE CONTRACTOR. THE CONTRACTOR MAY ELECT TO USE STEEL PLATES OVERNIGHT FOR EXCAVATIONS IN ROADWAY LOCATIONS BUT SHALL ACCEPT LIABILITY FOR SAFETY CONCERNS.
3. TEMPORARY TRENCH PATCH WILL BE REQUIRED DURING CONSTRUCTION AT LOCATIONS AS DIRECTED BY THE ENGINEER. SAWCUT EDGE OF REMAINING PAVEMENT AND PAVE 2-INCH THICK PAVEMENT COURSE. NO PAY FACTORS WILL APPLY. NO SUBBASE IS REQUIRED. PAYMENT WIDTH SHALL BE LIMITED TO 8 FEET. THIS WORK SHALL BE PAID FOR UNDER ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.

DEMOLITION

1. EXISTING MANHOLES AND PIPES ENCOUNTERED WITHIN PROPOSED TRENCH THAT ARE NO LONGER NECESSARY SHALL BE COMPLETELY REMOVED. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE RELEVANT NEW PIPE OR MANHOLE ITEMS.
2. EXISTING WATER MAIN PIPE TO BE ABANDONED WITHIN ROADWAY LIMITS SHALL BE CAPPED.
3. EXISTING SEWER TO BE ABANDONED WITHIN THE ROADWAY LIMITS SHALL BE FILLED WITH CONTROLLED DENSITY (FLOWABLE) FILL.
4. MANHOLES AND PIPES THAT ARE NO LONGER NECESSARY AND EXTEND BEYOND THE ROADWAY LIMIT SHALL BE CAPPED AND ABANDONED UNLESS NOTED OTHERWISE ON THE PLANS OR DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 629.42 TRANSFER TO NEW SYSTEM, WATER SYSTEM OR ITEM 628.42 TRANSFER TO NEW SYSTEM, SANITARY SEWER, AS APPROPRIATE.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF ALL ITEMS REMOVED DURING CONSTRUCTION.
6. EXISTING FRAMES, COVERS AND HYDRANTS SHALL BE SALVAGED TO THE OWNER. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 629.42 TRANSFER TO NEW SYSTEM, WATER SYSTEM, OR ITEM 628.42 TRANSFER TO NEW SYSTEM, SANITARY SEWER, AS APPROPRIATE.
7. THE EXISTING SANITARY SEWER MAY CONSIST OF TRANSITE PIPE. A QUANTITY OF ITEM 900.640 SPECIAL PROVISION (TRANSITE PIPE REMOVAL) HAS BEEN INCLUDED FOR REMOVAL OF TRANSITE PIPE AS SHOWN ON THE PLANS AND IF ENCOUNTERED WHERE THE NEW SEWER ALIGNMENT IS IN THE VICINITY OF THE EXISTING SEWER.

SURVEY NOTES

1. THE BASE MAPPING SHOWN WAS DEVELOPED BY VTRANS AND SUPPLEMENTED BY CITY AND ENGINEER MEASUREMENTS. SOME SUBSURFACE FEATURES SHOWN WERE INPUT BASED ON THE BEST AVAILABLE DATA SUPPLIED BY THE CITY.
2. THE CONTRACTOR WILL ESTABLISH AND MAINTAIN SURVEY CONTROL THROUGHOUT THE PROJECT. THIS WORK IS SUBJECT TO THE CHECKING, APPROVAL, AND SURVEILLANCE BY THE ENGINEER.

PLAN REVISIONS

- ① 6/16/14: MINOR NOTE REVISIONS (PER DEC AND VTRANS).
- ② 7/3/14: CORRECTIONS PER VTRANS.
- ③ 7/8/14: CORRECTIONS PER VTRANS.

RECORD DRAWING WATER AND SEWER ELEMENTS
SOME OF THE CONTENT SHOWN ON THESE RECORD DRAWINGS HAS BEEN PREPARED BASED ON INFORMATION FURNISHED BY OTHERS. THE LOCATION OF ITEMS SHOWN WITHOUT LABELED DIMENSIONS SHALL BE CONSIDERED AS APPROXIMATE. MODIFICATIONS TO BRIDGE ELEMENTS ARE NOT ADDRESSED ON THESE RECORD PLANS. THE SITE WAS NOT RE-SURVEYED AFTER CONSTRUCTION, SO RECORD LOCATIONS, ELEVATIONS AND FINISH GRADES ARE APPROXIMATE AND SHALL BE CONSIDERED "SCHEMATIC." DETAILS AND CROSS SECTIONS MAY NOT REFLECT "AS-BUILT" CONDITIONS.

WATER AND SEWER PLANS



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PROJECT NUMBER: BRF 3000(16)

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WATER/SEWER NOTES I

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SHEET 1 OF 22