



NOTE:
IT IS ASSUMED THE ELECTRICAL CONDUIT TO THE DISPOSAL FIELD PUMP STATION WILL RUN PARALLEL WITH THE PROPOSED FORCE MAIN. THE CONDUIT SHALL HAVE AT LEAST A 3-FOOT SEPARATION AT A MINIMUM DEPTH OF 24" AND HAVE WARNING TAPE INSTALLED AT 8" DEPTH. THE FORCE MAIN AND ELECTRICAL CONDUIT CAN NOT BE RUN IN THE SAME SLEEVE WHERE SLEEVES ARE USED. EITHER PROVIDE A SMALLER SEPARATE SLEEVE OR DIRECTIONALLY BORE A CONDUIT FOR THE ELECTRICAL.
THE CONDUIT RUN FROM THE MAIN PANEL TO THE DISPOSAL FIELD PUMP STATION PANEL WILL BE REQUIRED TO ADHERE TO ALL NATIONAL ELECTRIC CODE AND OTHER REFERENCED STANDARDS, INCLUDING REQUIREMENTS FOR MAXIMUM BENDS FOR CONDUITS AND PULLING TENSION FOR CONDUCTORS. THEREFORE, HAND HOLES FOR THE CONDUIT RUN TO THE PUMP STATION PANELS WILL BE NECESSARY TO ADHERE TO THESE REQUIREMENTS.

SEE RFI # 9 FOR CLARIFICATION ON SERVICE CONNECTION (OPT. 2 WAS CHOSEN)

ELECTRICAL SERVICE ONE-LINE DIAGRAM
NOT TO SCALE

GENERAL ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK UNDER THIS CONTRACT SHALL BE DONE IN ACCORDANCE WITH THE NEC, LOCAL AUTHORITY HAVING JURISDICTION (AHJ), AND LOCAL UTILITY COMPANY.
2. ELECTRICAL CONTRACTOR (E.C.) SHALL VERIFY AND COORDINATE ELECTRICAL CHARACTERISTICS (I.E. VOLTAGE, MCA, MOP, WIRING, GROUNDING) WITH MECHANICAL EQUIPMENT VENDOR AND COMPLY AS REQUIRED.
3. THE DIAGRAMS ABOVE ARE INTENDED TO FURNISH SYSTEM INTENT ONLY. E.C. SHALL BE RESPONSIBLE FOR PROPERLY SIZING ALL FEEDERS AND/OR BRANCH CIRCUITS, AND CONDUITS, AS REQUIRED TO PROPERLY SERVE ACTUAL EQUIPMENT TO BE INSTALLED. E.C. SHALL SUBMIT WIRE SIZING AND CONDUIT FILL CALCULATIONS TO THE ENGINEER. E.C. SHALL INCLUDE IN ITS PRICE, THE NEC REQUIRED WIRE AND CONDUIT TO PROPERLY COMPLETE THE INSTALLATION.
4. GROUNDING OF ELECTRICAL SERVICE AND EQUIPMENT SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250, AND EQUIPMENT MANUFACTURER REQUIREMENTS.
5. EQUIPMENT SHALL BE MOUNTED SO THAT THE BOTTOM IS A MINIMUM OF 36" AGL, UNLESS OTHERWISE REQUIRED BY THE NEC.
6. E.C. SHALL FURNISH AND INSTALL ONE (1) NEW 20A, 125V, NEMA 5-20R, TAMPER RESISTANT, WEATHER RESISTANT, GFI RECEPTACLE, INDUSTRIAL GRADE, DUPLEX, WITH WHILE IN USE COVER AT EACH PRIMARY AND SECONDARY PUMP STATION PEDESTAL FOR MAINTENANCE PURPOSES. E.C. SHALL FURNISH AND INSTALL A STEP DOWN TRANSFORMER AT PRIMARY PUMP STATION PEDESTAL TO SERVE NEW RECEPTACLE. NOTE: NEW RECEPTACLES, RECEPTACLE STEP DOWN TRANSFORMER, AND WIRING/CONDUIT NOT SHOWN ABOVE.
7. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. ALSO REFER TO SPECIFICATION SECTION Q220 - WASTEWATER PUMP STATION FOR PUMP CONTROL INFORMATION. PUMP SYSTEMS SHOWN IN THE CONTRACT DOCUMENTS ARE THE BASIS OF DESIGN, IF THE CONTRACTOR SUBSTITUTES EQUAL PUMP STATION PRODUCTS, THE CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE ELECTRICAL SERVICE SYSTEM AND PROVIDING COMPLETE AND OPERATIONAL SYSTEMS.

6 6/9/15 ELECTRIC SERVICE CMH

SCHEDULE B - WASTEWATER SYSTEM - BID SET
VTRANS PROJECT #AVI157046-301
JUNE 2016

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

5	5/3/15	COLD WEATHER MODIFICATIONS	BMB
4	4/29/15	PERMITTING MODIFICATIONS	SKI
3	1/30/15	WW SYSTEM MODIFICATIONS	BMB
2	8/5/14	ANR COMMENTS	TCB
1	4/18/14	ADD 400-SERIES TEST PITS	CH
REV	DATE	DESCRIPTION	BY

NEWPORT STATE AIRPORT
COVENTRY, VERMONT
NEWPORT WASTEWATER

ELECTRICAL-1



McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

SCALE: 1" = 20'	DESIGN: TCB	E-01 36 OF 36
DRAWN: MTF	PROJECT: 17958.01	
CHECKED: BLS	DATE: JUNE, 2014	