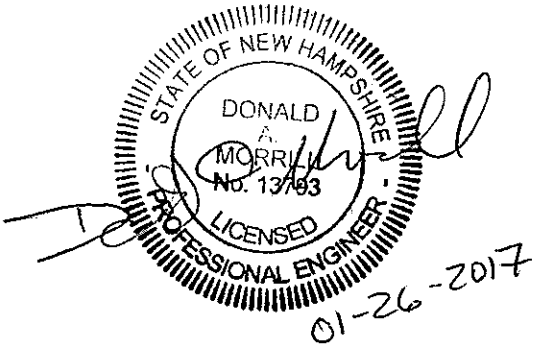
ADDENDUM NO. 1

TO

EXETER, NEW HAMPSHIRE

CONTRACT NO. 1 – WASTEWATER TREATMENT FACILITY UPGRADES

NHDES SRF PROJECT NO. CS-330130-15



JANUARY 2017

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CONTRACT NO. 1 – WASTEWATER TREATMENT FACILITY UPGRADES

As a point of clarification, it should be understood that the Contract Documents govern all aspects of the project. Informal discussions held over the telephone and/or during the pre-bid meeting are informational only. All official changes to the Contract Documents are made only by addenda. The following changes and additional information are hereby made a part of the Contract Documents. All Bidders shall acknowledge receipt and acceptance of this Addendum by signing and sending back the confirmation page. Bids submitted without acknowledgement of receipt of this addendum may be considered non-responsive.

A pre-bid conference was held on January 18, 2017. The attendance sheet is attached to this addendum.

SPECIFICATIONS

1. Table of Contents. **ADD** "Appendix F – Permit Conditions of Approval".

2. Section 00100 – Instructions to Bidders. For Paragraph 13.07, **ADD** the following to the end of the paragraph 13.07, "Bidder shall be responsible for obtaining and acknowledging any and all Addenda prior to submitting a Bid."

3. Section 00100 – Instructions to Bidders: For Paragraph 26.01, in the fifth sentence **DELETE** "1.45% MBE and 6.62% WBE" and **REPLACE** with "0.77% MBE and 6.22% WBE".

4. Section 00510 – Agreement: For Article 4.02.D.9., **DELETE** the phrase "Dewatering Building" and **REPLACE** with "Dewatering Building, excluding the performance testing of the centrifuge and appurtenances".

5. Section 00800 SC-1.01.A.52, **DELETE** the phrase ", prepared by or for Owner in support of the Geotechnical Baseline Report".

6. Section 00800 SC-4.01. **ADD** the following phrase to the end of the last sentence ", but will be issued as soon as possible after the Effective Date of the Agreement."

7. Section 00800 SC-20 ATTACHMENT B DAVIS-BACON WAGE RATES: **DELETE** this section in its entirety and **REPLACE** with the attached version.

8. Section 01800 – Equipment Startup, Certification and Operator Training, Paragraph 3.4.C Clear Water Testing. For paragraph 01800-3.4.C.4.a, **DELETE** the phrase "Water shall be from a domestic potable waters source, unless otherwise approved by the Engineer." and **REPLACE** with the phrase "Water shall be WWTF plant effluent made available to the Contractor (and pumped by the Contractor)".

9. Section 03305 – Concrete Testing, Paragraph 3.4.C (Watertightness-Leakage Testing). **DELETE** the phrase "shall be filled with potable water furnished by the Contractor from a municipal water supply or meeting the requirements of ASTM C1602" and **REPLACE** with the phrase "shall be filled with WWTF plant effluent made available to the Contractor (and pumped by the Contractor) or meeting the requirements of ASTM C1602"

10. Section 11378B – Fine Bubble Aeration System, Paragraph 2.2.G HEADER AND MANIFOLD PIPE JOINTS. **DELETE** the phrase "or positive locking fixed threaded unions" from paragraph 2.2.G.1. **DELETE** paragraph 2.2.G.3 and **REPLACE** with "3. Not used".

11. Section 13440 – Instrumentation and Process Control, Paragraph 2.1.C.1 Magnetic Flow Meters. **DELETE** Paragraph 2.1.C.1.f and **REPLACE** with the following:

    For Class 1 Division 1, equivalent to:
    - i. Siemens Sitrans FM Mag 3100 series
    - ii. Endress &Hauser Proline Promag 50 series
    - iii. Rosemont 8700 series

    For all other classifications, equivalent to:
    - iv. Foxboro 9500 series
    - v. No equal to match owner's existing

12. Section 13440 – Instrumentation and Process Control, Instrumentation Schedule. For Instrumentation Tag FE/FIT-117A and FE/FIT-117B, **ADD** "NEMA 6P" in the Service Column.

13. Section 13441 – Control Loop Descriptions: **ADD** the following paragraph immediately after paragraph 13441-3.3.F.2.a:

    b. Solar-Array Contactor Control
    Program a Digital Output at the CBCP for a power fail detected at the DBCP Switchboard monitoring. When the DO is FALSE, the contactor for the solar array will open and disconnect the array from the distribution so that its electronics don't interact with the generator governor (syncing). When utility power is restored, the DO will be TRUE, and the contactor will close.

14. Section 13445 – Communications Network, **DELETE** paragraph 1.2.E.2 and **REPLACE** with the following:

    2. Acceptable Suppliers:
       a. Ritec Wireless, Rochester, NY
       b. Axis New England, Danvers, MA
       c. AutomaTech, Inc., Danvers, MA
       d. Or equal, having a minimum of 5 years of experience in supplying comparable services.

15. Section 14320 – Hoist Systems: For Paragraph 2.1 Hoist Schedule, **DELETE** the schedule and **REPLACE** with the schedule below.

Location	Capacity	Hoist	Trolley	Lift Height	Service Class	Remarks
Dewatering Building, Dewatering Room	3.0 ton	E	M	30'-0"	H1	LHR
Dewatering Building, Dewatering Room	3.0 ton	M	M	10'-0"	H1	LHR
Pump Building	0.5 ton	M	M	32'-0"	H1	LHR
Disinfection Structure, Pump Room	1.0 ton	M	M	12'-0"	H1	LHR

16. Section 14320 – Hoist Systems: For Paragraph 2.5, **ADD** the following immediately after 2.5.D:

E. Wire rope hoist shall meet the requirements of ASME B30.16 "Overhead Hoists". Hoist shall be heavy duty meeting H4 Service classification as defined in ANSI/ASME HST-4M "Performance Standard for Overhead Electric Wire Rope Hoists". Electric wire rope hoists shall meet the following requirements.

1. Frame shall be fabricated from rolled steel to form a one-piece weldment.
2. Gear case is to be machined aluminum alloy casting with sealed construction allowing the gears and load brake to operate in a bath of oil.
3. Bearings shall be high quality anti-friction type of either needle or ball design and used throughout the hoist. Bearings, not considered lifetime lubricated by the manufacturer, should be provided with a means for lubrication.
4. Brakes: Hoist shall have two types of brakes: One DC electrical multiple disc motor brake spring set electrically released, and one self-adjusting Weston type mechanical load brake located in the gear case. Either brake shall have the capability of holding rated load in the event of failure of either brake system.
5. Overload device shall be provided to prevent lifting excessive overloads. This load-limiting device shall be preset at the factory to disengage the hoist motor from the gearing in event of excessive overload condition. Overload device is to be located between the motor and load brake, so that the load brake will hold the load in event of overload device failure.
6. Motors shall be of high starting torque type designed specifically for hoist duty service with permanently lubricated ball bearings, rated for 30-minute duty cycle. The motor enclosure is to be totally enclosed non-ventilated, TENV. Motor insulation shall be class F Minimum. Motor is to have automatic reset temperature actuated switch (TAS) in motor windings to provide motor running over current protection.
7. Gearing shall be a combination of spur and/or helical, precision cut and heat treated to ensure quiet, efficient operation. Gears shall be totally enclosed and run in a bath of oil to provide maximum lubrication. Gears are either splined or keyed to shafts.
8. Deep grooved, large diameter rope drum that helps prevent overwrap of cable for longer rope life.
9. The diameter of the rope drum shall not be less than 18 times the diameter of hoisting cable, running sheaves not be less than 16 times and idler sheave not less than 12 times the diameter. Wire rope hoisting cable shall be 304 stainless steel.
10. Limit Switch: An upper block operated control circuit limit switch shall be provided that shuts off the hoist motor when the load hook reaches its highest position.
11. Controls to be centralized and designed per NEC (National Electric Code) standards housed in a panel with a hinged door. The controls are to be provided with a step-down transformer within the panel that provides 120 volts power to the control circuits. Control circuit voltage to the push button station shall not exceed 120 volts. In addition, the panel shall be UL Listed.
12. Pushbutton station shall be of molded contour grip type and supported from hoist by strain relief cable to avoid damage from pull on the control wires. The enclosure is to be **NEMA 4X watertight**. Controls pendant shall be 120 volt AC, supported by a strain cable. Pendant shall hang to a point 3' - 6" above the operating floor, elevation as shown on the drawings.

13. All controls, including power transformer, shall be housed in **NEMA-4X** enclosure mounted in an easily accessible location on the hoist. Controls shall include trolley travel and hoist raising and lowering. Limit switches shall be provided to prevent over travel of the hook in either direction. Motors shall be fully enclosed 30-minute duty cycle motors in a NEMA frame rated for 480 volts, 3-phase, 60 Hz power supply.
14. Provide appropriately sized festoon cable kit including power cable for electric wire rope hoist.

17. Section 15050 – Piping Schedule: For Supplemental Carbon (SPC), **DELETE** the phrase "TANK FILL AND VENT" and **REPLACE** with the phrase "TANK FILL, TANK VENT, DISCHARGE PIPING IN BUILDING AND AERATION TANK".

18. Section 15185 – Heat Tracing: **DELETE** paragraph 1.1.A in its entirety and **REPLACE** with the following:

    C. Provide self-regulating electrical heating cable systems listed below and as indicated on the Drawings:
       1. Odor control system drain piping
       2. Compressed air mixing system tank drain piping (2 locations)
       3. Foam spray water piping at the Secondary Clarifiers
       4. Other locations indicated on the Drawings.

19. Section 15190 – Exterior Pipe and Equipment Insulation: **DELETE** the phrase "Section 15190" and **REPLACE** with the phrase "Section 15188".

20. Section 16620 - Standby Power System, Paragraph 1.1 Description: **ADD** the following immediately after paragraph 16620-1.1.A.8: "9. Contractor shall coordinate with Owner and Engineer to allow time for the NHDES permitting and review requirements to occur."

21. Section 16620 - Standby Power System, Paragraph 1.3 Submittals: **ADD** the following immediately after paragraph 16620-1.3.A.8: "9. Tank tightness test report from fuel tank manufacturer."

22. Section 16620 - Standby Power System, Paragraph 2.1.B.9 Diesel Fuel System: **ADD** the following immediately after paragraph 16620-2.1.B.9.d:

    "e. Fuel tank shall also meet the requirements of NHDES Env-Or 300 including:
    - Fuel Piping 2-inches or greater shall be welded or welded flange
    - Fuel Vent Piping 2-inches or greater may be threaded if there are no elbows or bends
    - Provide a fill-valve to automatically prevent filling beyond 95% capacity
    - Provide 5-gallon spill containment at fill-cap
    - Include an audible and visual alarm at 90% of tank capacity
    - Tank shall have all applicable local and state markings with minimum 2-inch lettering

23. Appendices. **ADD** "Appendix F – Permit Conditions of Approval" attached to this addendum.

DRAWINGS

1. Drawing C-17: **DELETE** the phrase "(BID ALTERNATE B)" from the two guard rail notes at the Stormwater Pond Area.

2. Drawing C-22: **ADD** the following call out to the Stormwater Pond Area "RIPRAP SLOPE, SEE DETAIL DRAWING C-37".

3. Drawing C-26: **REPLACE** note 20 with the following:
   "20. ELECTRICAL CONDUIT RUNS ARE INDICATED ON THE ELECTRICAL DRAWINGS AND MAJOR CONDUIT RUNS APPEAR DASHED ON THE SITE PIPING DRAWINGS. ELECTRICAL DUCT BANK CONFIGURATIONS AND TYPICAL DUCT BANK SECTION ARE SHOWN ON DWG E-6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION AND BACKFILLING REQUIRED FOR THE ELECTRICAL CONDUITS, AND SHALL FURNISH AND INSTALL ELECTRICAL MANHOLES AND HANDHOLES. CONCRETE AND REINFORCING SHALL BE AS INDICATED ON THE STRUCTURAL DRAWINGS. ENCASEMENT LOCATIONS SHALL BE AS INIDCATED ON THE ELECTRICAL DRAWINGS. COORDINATE THE LOCATION OF THE ELECTRICAL MANHOLES AND HANDHOLES, AND THE REQUIRED OPENING SIZES, WITH THE ELECTRICAL CONTRACTOR."

4. Drawing C-32, TYPICAL ACCESS ROAD SECTION: **DELETE** the detail in its entirety and **REPLACE** with the attached TYPICAL ACCESS ROAD SECTION shown on Figure C1.

5. Drawing C-37, CONCRETE SPLASH PAD DETAIL: **DELETE** the detail title "CONCRETE SPLASH PAD" and **ADD** the detail title "GRAVEL AREA SECTION".

6. Drawing C-39: **DELETE** the phrase "TYPICAL DUCT BANK DETAIL" in its entirety.

7. Drawing A-34, FINISH SCHEDULE – PUMPING BUILDING: **DELETE** twelve "–" symbols located beside cells with "CMU" under the "FIN" columns, and **ADD** "PT" in each of the twelve cells.

8. Drawing S-14, SECOND FLOOR MONORAIL FRAMING PLAN: **DELETE** "S12X31.8, 2 TON MONORAIL BEAM WITH END STOPS" and **ADD** "S12X50, 3 TON MONORAIL BEAM WITH END STOPS". For NOTE T/STEEL ELEVATIONS, **DELETE** S12X31.8 = EL 53.00" and **ADD** "S12 = EL 53.00".

9. Drawing PR-2, DEWATERING BUILDING ACTIVATED CARBON ODOR CONTROL SYSTEM (OCS-1) schematic, in the upper left hand corner on the odor control duct from the CONTAINER BAY, **DELETE** "1300cfm" and **ADD** "1325cfm".

10. Drawing PR-11, SUPPLEMENTAL CARBON SCHEMATIC: **DELETE** the plant water/carrier water and appurtenances.

11. Drawing PR-24, AERATION TANK UPPER LEVEL PLAN: **ADD** flange-by-flange expansion joint to the 18" Air pipe in the vertical segment at 4'0" above grade.

12. Drawing PR-26, SUPPLEMENTAL CARBON AREA PLAN AND SECTIONS: See attached Figure PR1 for text clarification to Section 2.

13. Drawing E-4: **DELETE** Note 10 in its entirety and **REPLACE** with the following: "10. ELECTRICAL DUCTBANK LOCATIONS HAVE BEEN SHOWN SCHEMATICALLY. CONTRACTOR SHALL FIELD COORDINATE SITE PIPING, UTILITIES AND STRUCTURES WITH THE ELECTRICAL DUCTBANKS AND ANY CONFLICTS SHALL BE ADDRESSED VIA RFI PRIOR TO INSTALLING PIPES, STRUCTURES AND DUCTBANKS. ONCE INSTALLATION STARTS, ADJUSTMENTS TO ADDRESS CONFLICTS SHALL BE AT NO COST TO THE OWNER. FINAL DUCTBANK LOCATION SHALL BE COORDINATED WITH THE ENGINEER."

14. Drawing E-4 and E-27: **RELOCATE** Duct Bank P-P below grade to the west side of the double door at the Pumping Building (approximately 10 ft). Conduits shall extend up into the MCC-PB-1 from the lower level, so the conduits are not in conflict with the Return Sludge Piping or other process piping.

15. Drawing E-12, **ADD** a NEMA 12, 100 amp fused disconnect, and 100-amp contactor, to the secondary wiring and conduit downstream of the existing 75 KVA solar array transformer. The 120 VAC Contactor shall open when the entire facility is on back-up generator power, to disconnect the solar array from the generator. Once utility power is restored than the contactor shall close. Locate contactor and fused disconnect within the Control Building Electrical Room. Contactor shall be controlled from a discrete output within the SCADA control panel CBCP. Run 2#12 in ¾" conduit from CBCP to the contactor.

16. Drawing E-16, under Item 51 and Item 37: **ADD** Hexagon "5" to each equipment balloon on plans.

17. Drawings E-16, **ADD** Demolition Note Hexagon 5 as follows:
    "5. ELECTRICAL CONTRACTOR TO MAINTAIN OPERATION OF THE CONTROL PANEL AND ANTENNA FOR REMOTE SITE COMMUNICATIONS PER DIVISION 13 REQUIREMENTS UNTIL NEW CONTROL PANEL IS OPERATIONAL. RELOCATE DEVICES AND PROVIDE TEMPORARY ANTENNA AND POWER WIRING AS NECESSARY TO MAINTAIN OPERATION."

SIGNIFICANT QUESTIONS AND RESPONSES DURING THE BIDDING PERIOD

1. Q: Can Civil CAD drawings be provided for bidding? Will a layout table be provided for construction?
   R: No, Civil CAD drawings will not be provided for bidding; however, they will be provided to the successful contractor if desired. A layout table, with latitude-longitude coordinates, will be provided for use in construction. Refer to Drawing C-1, Site Layout Note 1.

2. Q: Are the centrifuges able to fit through 7'-4" x 11'-4" window on the southeast corner of the Dewatering Building, Second Floor?
   R: Yes.

3. Q: What type of cable is required for the hoists?
   R: Wire rope, refer to items above.

4. Q: Do sumps shown in the lower levels of the buildings require grating and supports?
   R: Yes.

5. Q: Please clarify the scope of the pipe insulation and heat tracing required. Sections 15180, 15185 and 15190 do not coincide. Will the entire odor control system require heat trace and insulation? Will the foam spray and compressed air piping and tank require heat trace and insulation? Is the heat trace shown on the Electrical Drawings?
   R: See below.
   a. Specification 15188 was incorrectly labeled '15190' in the title. The header is the correct specification number and matches the table of contents. See above.
   b. 15180: Pipe insulation is required for interior piping only where shown on Drawings.
   c. Pipe insulation for heat trace is specified in 15185.
   d. 15185: Heat trace is required for the items that require exterior pipe insulation.
   e. 15188: Exterior pipe insulation is required for the pipes that are heat traced.
   f. Heat trace control panels are shown on the electrical drawings in each of the areas specified. As an example, see equipment legend item #4 on Drawing E-30.
   g. Clarifications to the scope of 15185 and 15188 are made above. For example, the odor control draining piping requires heat trace and insulation, however, the odor control system does not. Foam spray piping in the

secondary clarifiers requires heat trace and insulation, however foam spray water at the Aeration Tanks does not. Compressed air tank drain piping will requires heat trace and insulation, however, compressed air tanks and compressed air piping will not.

6. Q: Please clarify what drawings apply to Bid Item 14, Disinfection System Upgrades. The work is not indicated on the drawings making breakout pricing from subs and suppliers unlikely.
   R: This item will be addressed in a subsequent addendum.

7. Q: Reference Section 15050. Please clarify which pipe supports are to be designed by Contractor. What does N/A and NO mean?
   R: N/A mean "not applicable" and is noted next to buried pipes. NO means that pipe supports do not require PE design by the Contractor. YES means that pipe supports do require PE design by the Contractor.

8. Q: Will the odor control system require an enclosure or an exhaust stack?
   R: Yes, an enclosure is specified in Section 11250. The extent of the exhaust stack is shown on Drawing PR-20.

9. Q: Reference drawing A-14. Please clarify the material specification for the 2'' insulation to be installed above the metal roof deck.
   R: Refer to Specification 07220 – Roof Deck Insulation.

10. Q: Will the exposed structural steel frames for the disinfection building and the Parshall flume structure be painted, galvanized, or both?
    R: Galvanized only, refer to Section 05120.

11. Q: For PR-38, Slide Gate FCV-154/SLG-8, where is the hydraulic system for this actuator specified? Where will it be located and powered from?
    R: FCV-154/SLG-8 has a electro-hydraulic actuator which is specified in Section 15120A. It is located on the gate, refer to Drawings PR-16 and PR-38. It is powered from PP-HW, refer to Drawing E-41.

12. Q: Reference Drawing S-20. Please clarify the size of the truss bracing members required.
    R: The bracing size shall be in accordance with the metal truss manufacturer recommendations.

13. Q: Refer PR-24. Is there an expansion joint at the flange shown on the 18" Air header as it comes out of the ground?
    R: Yes.

14. Q: Refer PR-24. Are the foam spray nozzles required where shown or at 5'6" on center along the whole run of piping in the Aeration Tanks?
    R: Foam spray nozzles are required, at 5'6" on center, only where shown on the Drawings.

15. Q: Refer to the Bid Form. Will the unit prices for the additional work be based on building or heavy wage rates?
    R: This item will be addressed in a subsequent addendum.

16. Q: Refer to PR-11 and PR-26. Where is the source of the plant water feed to the supplemental carbon feed pump discharge?
    R: There will be no plant water/carrier water for this system. PR-11 will be modified.

17. Q: Refer to PR-25. Is the 1" supplemental carbon piping within the Aeration Tanks 1" PVC pipe or 1" tube within a conduit? If it is to be tube, please specify the conduit pipe material and size.
    R: The 1" SPC in the Aeration Tanks is Schedule 80 PVC.

18. Q: Please clarify the material specification of the compressed air mixing system. Section 11223C mentions 304L stainless steel without field welding for this 2" compressed air piping.
    R: Piping within the Sludge Storage Tanks and Aeration Tanks, from the Valve Panels to the nozzles or accumulator plates, shall be furnished by the Compressed Air Mixing System Manufacturer and shall be Press technology fittings, couplings, and pipe joining systems as indicated in Section 11223C-2.2. No field welding is allowed for these segments. Contractor shall be responsible for furnishing and installing the remaining piping associated with the Compressed Air Mixing System in accordance with 15050 and 15064.

19. Q: Concrete base slab and walls are shown to extend 5' into the "future" Aeration Tank area. Do you want both the slab and walls extending onto this area, or just the base slab?
    R: The base slab and the walls should be extended 5' into the future Aeration Tank area.

20. Q: Rock is called out to be excavated from the future Aeration Tank area. It may be a better use of cost to blast ledge through the overburden to future elevations, but not remove the existing soil and ledge from this area at this time. Removal of approximately 10,000 CY of material would be needed to get to the roughly 900 CY of ledge, then replaced with about 11,000 CY of suitable backfill material, costing and wasting time and money. Removal of the ledge at the same time in the future is a more efficient use of cost. Can ledge removal can be waived, and only require line drilling and blasting to El.= 1.0 +/-.
    R: Ledge removal needs to be completed at this time as shown in the Bidding Documents.

21. Q: Water for clear water testing is indicated to be potable water and provided by the Contractor. What are the potential sources on-site for this water? Will the Contractor be charged for the water?
    R: Clear water testing will be conducted with plant water. Addressed above.

22. Q: When will television inspection tests be needed on buried utilities? Gravity sewers only? When will engineer direct this activity to happen?
    R: CCTV is only required on gravity sewer lines and should be completed after pipe installation and backfill but prior to paving.

23. Q: Section 03300.2.7.D.4.b.ii calls for 2-year expansion prisms. This is not a typical test that is done, apparently, so no 2 year data is available from Redimix and likely others as well. Can this value be extrapolated from 14 testing? Also, alkali reactivity testing is not usual. Let me know thoughts on this
    R: Part 2.7.D.4.b.ii may be waived if the other conditions in Part 4.b are met. Potential alkali reactivity testing is required if the cement mix is 0.60% alkali or greater, refer to Part 1.8.C.4

24. Q: Section 03300.3.11.A.2 is unclear. How will the 10% be determined? Per structure/ placement?
    R: The 10% will be taken from all cylinder breaks from the entire project.

25. Q: Section 11311C indicates Gorman-Rupp or equal but the bid form say "no equal". Please clarify.
    R: The base bid is for Gorman-Rupp or equal. The bid alternate is the adder price for Gorman-Rupp only.

26. Q: Why is polymer system required to be supplied by the dewatering equipment manufacturer? Can this be broken apart?
    R: No. The Dewatering System Manufacturer is responsible for selecting and supplying a polymer system that will meet the dewatering acceptance testing requirements.

27. Q: Who provides the polymer for the dewatering system performance testing?
    R: The Contractor provides the polymer. Refer to paragraph 11365C-1.5.I.

28. Q: Is centrifuge testing part of Interim Milestone 3?

R: No, see above.

29. Q: Is potable water required for leak testing? If yes, is there a charge?
R: Plant water will be used for leak testing. See above. If the Contractor needs potable water for construction activities, the Owner will need to charge bulk rates of $0.02/gallon.

30. Q: Is potable water required for clear water testing? If yes, is there a charge?
R: Plant water will be used for clear water testing. See above.

31. Q: Does clear water testing require pumping? If yes, can it be completed via diesel pump?
R: Clear water testing will require pumping from the plant effluent location to the new treatment works. Pumping shall be by the Contractor. The purpose of the clear water testing is to assess the new treatment works at various flow rates from minimum to maximum conditions. If various flow rates can be provided, then a diesel pumping system will be acceptable for clean water testing. Bypass pumping required for the normal treatment process must be variable speed as specified in Section 01515.

32. Q: After leak testing, can testing water be returned to the WWTF?
R: Yes, as long as testing has not introduced pollutants which would compromise WWTF compliance.

33. Q: After clear water testing, does the water need to be removed or can seed sludge just be directly introduced into the full tanks?
R: The tanks do not need to be emptied, seed sludge will be added in the full tanks.

34. Q: Refer to liquidated damages and special damages in Section 00510. Do liquidated damages include engineering costs?
R: Yes.

35. Q: Does GC need to provide professional liability insurance if they don't design pipe supports, support for excavation, etc. and instead higher a PE to perform those designs?
R: Refer to Specification 00700 – General Conditions, the last sentence of Paragraph 6.03.H.

36. Q: Please clarify where process gauges are required.
R: Gauges shall be furnished where indicated on the Drawings as well as where specified in Section 11310-2.1.A.5.a (Pumps) and 11231-2.2.C.1 (Chemical Feed). Gauges are specified in Section 11000-2.17.

37. Q: Will the interior PVC piping and/or insulation jacket require painting or just pipe labels?
R: PVC piping is not scheduled to be painted and insulated piping is scheduled to be painted. Refer to Section 09900 – Painting.

38. Q: Please furnish a detail for and a size of the pressure relief valves to be installed in the Aeration Tanks and the Secondary Clarifiers.
T: The valves are specified in Section 03300-2.9.I. The details is shown on Drawing S-54.

39. Q: Reference drawing C-12A, Paving Sections. Do the shaded and cross hatched sections of roadway indicate Heavy Duty Pavement Section and the shaded only areas indicate Normal Duty Pavement Section?
R: Yes, refer to legend on Drawings C-1.

40. Q: Reference drawings C- 19, Gravel Turn Around Areas. Is there a detail for this area showing types and depths of gravel?
R: Refer to detail on Drawing C-37 as amended in Drawings Item 5 above.

41. Q: The final grading for Bid Alternate B is approximately 4 to 5 feet lower than shown on the Base Bid grading plans on C-24 and C-25A thus requiring less common borrow material. Is it the intent to include all the common borrow to the Base Bid grade in the Base Bid price and then provide a credit in Bid Alternate B for this reduction in common borrow material?
    R: The Base Bid has a higher earth grade, as noted above, but also allows for more on-site burial of invasive species material. Bid Alternate B has a lower earth grade, but also includes a number of other items. The price for Bid Alternate B should reflect the additional costs associated with the underdrain system and drain manhole with connection to SMH-21, guard railing required along the perimeter road, additional erosion control measures, additional sequencing and staging measures and the additional cost of off-site versus on-site disposal of invasive species materials.

42. Q: Reference drawing A-4. Will the existing lab cabinetry require refurbishment?
    R: No.

43. Q: Reference drawings A-19 and A-36, Window type C. Is this a window or a pair of doors?
    R: Window type C is a Window.

44. Q: Reference 03346-3.7.B. Please clarify the use of grout paint versus an epoxy bonding agent for the concrete fill in the Aeration Tanks and the Secondary Clarifiers.
    R: Neither grout paint nor bonding agent are required for the concrete fill in these tanks.

45. Q: Reference Drawing S-34 and S-36. Please confirm that the entire bottom of the clarifier base slab is at the same elevation.
    R: The minimum slab thickness of 1'9" shall be maintained. Engineer will permit either sloping of the bottom of the slab or maintaining the same bottom of slab elevation as long as the minimum thickness is maintained.

46. Q: What is the difference between the Heavy Duty pavement section thickness and normal duty pavement?
    R: Heavy duty section is two 2.25" (19.0mm) layers and one 1.5" (12.5mm) layer for a total thickness of 6". Normal duty section is one 2" layer and one 1.5" layer for a total thickness of 3.5". Refer to the details on drawing C-37.

47. Q: Penetrating damproofing is called out on the notes on control building, septage building, and lagoon pump room A-drawings, but not on the rest of the buildings. These three are existing buildings, where the others are new. Are new buildings supposed to receive the penetrating damproofing, or only the existing?
    R: Refer to Section 07150-3.6 for locations to be dampproofed.

48. Q: Is GE an acceptable manufacturer for Panelboards, MCC's and VFD's?
    R: Yes, GE is an acceptable manufacturer for Panelboards (Specification 16442), Motor Control Centers (Specification 16443) and Variable Frequency Drives (Specification 16469) provided the selected models meet or exceed their respective specification.

49. Q: Section 07250 calls for applied fireproofing on light gauge metal blocking. Where is this to be installed?
    R: See Detail A on A-22. This detail is referenced on Section 2 on A-21, Section 5 on A-22 and Section 4 on A-25.

50. Q: Is Section 07620 missing? Where is metal furring specified? Where is the fiberglass mat sheathing for gable ends of buildings specified?
    R: No, Section 07620 is not needed in the specifications. Metal furring at ceilings is in Section 09250 – Gypsum Wallboard. Z-furring at exterior gable walls is covered under Section 05400 – Cold Formed Metal Framing. The Fiberglass Mat Sheathing is in Section 06160 – Gypsum Sheathing.

PRE-BID CONFERENCE SIGN-IN-SHEET
EXETER WWTF UPGRADE / 12883B
BIDS DUE DATE/ TIME: 4:00 PM, AT: Exeter Town Offices, 10 Front Street, Exeter, NH

Name	Organization Name	Phone Number	Email
Rob Trzepacz	Technology Sales	603-848-3950	robt@techsalesne.com
Brian Anderson	Godwin Pumps	860 383 9944	brian.anderson@xyleminc.com
Vaughan Richardson	Richardson Electric	603-474 3900	Vaughan@RichardsonElectrical.US
Peter Kibble	The MAHER Corp	781-421-2660	PKibble@themahercorp.com
Bill Onellette	Penta corp	603-476-5525	Pentacorp@roadrunner.com
Bill Oneill	Johnson and Jordan	207 883-8345	boneil@johnsonandjordan.com
Gene Connor	Kinsman Corp.	603 625 9199	esmmanager@kinsmancorp.net
Steve Nollkamper	Stultz Electric	603-608-7496	SNOLLKAMPER@SCHULZELECTRIC.COM
Dan Dudley	NHDES	603-271-7007	daniel.dudley@des.nh.gov
Shannon Larocque	NHDES	603-271-2903	Shannon.Larocque@des.nh.gov

Please print legibly

PRE-BID CONFERENCE SIGN-IN-SHEET
EXETER WWTF UPGRADE / 12883B
BIDS DUE DATE/ TIME: 4:00 PM, AT: Exeter Town Offices, 10 Front Street, Exeter, NH

Name	Organization Name	Phone Number	Email
Chris DeCourcy	New England Environmental	781 245 1001	chris@ne3inc.com
Tom Rousseau	Perth Corp	603-476-5525	perth corp@ROADRUNNER.com
Kathie Bourret	NH DES	603-271-2902	Kathleen.Bourret@DES.NH.gov
Heath Todd	Apex	(603)330-3600	heath@apex-constructioninc.com

Please print legibly

PRE-BID CONFERENCE SIGN-IN-SHEET
EXETER WWTF UPGRADE / 12883B
BIDS DUE DATE/ TIME: 4:00 PM, AT: Exeter Town Offices, 10 Front Street, Exeter, NH

Name	Organization Name	Phone Number	Email
Michael Loiselle	Methuen Const.	603 328 2222	Estimating@methuenconstruction.com

Please print legibly

00800 SC-20 ATTACHMENT B

DAVIS-BACON WAGE RATES

Davis-Bacon wage rates apply to this project. The wage rates for Heavy Construction and Building Construction are attached. It is the responsibility of the Contractor, before bid opening, to request any necessary additional information on wage rates for those people who are not covered by the attached wage rates, but who may be employed for the proposed work under this contract.

- The "Building" wage decision applies to work in the Control Building, Grit Building, Septage Building, Headworks Building, Maintenance Building, Dewatering Building, Pumping Building, Yard Pump Station, Supplemental Carbon Area (building), Disinfection Structure, and a five-foot envelope extending out from each building, including the associated exterior generator, transformer and Supplemental Carbon Storage Tank. However, paving and duct banks within the above envelopes shall be classified as "Heavy".
- The "Heavy" wage decision applies to work associated with the Flow Meter Vault, Aeration Tanks, Secondary Clarifiers, Splitter Structures, Parshall Flume Structure, Sludge Storage Tank, Vactor Pad, site piping, duct banks, existing Chlorine Contact Tank demolition, existing septage receiving demolition, and any other work not specifically identified under "Building" in the above paragraph.

For workers who are not covered by the attached wage rates, but who may be employed for the proposed work under this contract, the Contractor shall assume minimum wage rates when completing a "Request for Authorization of Additional Classification and Rate" (Standard Form 1444) based on the guidance provided below.

For work performed under the "Building" General Wage Decision NH13 dated 01/06/2017:

- Skilled trade classifications: the minimum that may be approved is $20.25 + $4.07 fringe or a total rate of $24.32/hour.
- Equipment operator classifications: the minimum that may be approved is $19.30 + $6.52 fringe or a total rate of $25.82/hour.

For work performed under the "Heavy" General Wage Decision NH16 dated 01/06/2017:

- Skilled trade classifications: the minimum that may be approved is $28.00 + $18.94 fringe or a total rate of $46.94/hour.
- Equipment operator classifications: the minimum that may be approved is $25.03 + $5.35 fringe or a total rate of $30.38/hour.

The Contractor shall include the applicable wage decision(s), Federal Labor Standards Provisions and the guidance provided in all subcontracts.

Questions regarding conformance requests for this project should be directed to Paul Rabinowitz, Wage and Hour Analyst for NH at 202-693-0692. Refer to the General Wage Decision numbers and publication dates listed above when requesting guidance on specific trades or operator rates. The description of work that falls under each category must also be considered by the wage and hour analyst when providing guidance on rates that may be approved.

If, during construction, the Department of Labor approves any wage rates higher than the minimum assumed rates presented above, the difference between the assumed minimum rate and the higher DOL-approved rate for all hours worked shall be the responsibility of the Contractor.

General Decision Number: NH170016 01/06/2017 NH16

Superseded General Decision Number: NH20160016

State: New Hampshire

Construction Type: Heavy

County: Rockingham County in New Hampshire.

HEAVY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.20 for calendar year 2017 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2017. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/06/2017

* ELEC0490-003 06/01/2016

	Rates	Fringes
ELECTRICIAN	$ 28.00	18.94

SUNH2011-012 02/22/2011

	Rates	Fringes
LABORER: Common or General	$ 17.24	1.54
LABORER: Landscape	$ 15.23	1.81
OPERATOR: Excavator	$ 25.03	5.35
OPERATOR: Loader	$ 24.31	5.69
TRUCK DRIVER	$ 18.17	3.24

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on

a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION
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General Decision Number: NH170013 01/06/2017 NH13

Superseded General Decision Number: NH20160013

State: New Hampshire

Construction Type: Building

County: Rockingham County in New Hampshire.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.20 for calendar year 2017 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2017. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/06/2017

BRME0003-001 05/01/2016

	Rates	Fringes
BRICK POINTER/CAULKER/CLEANER	$ 30.36	22.01

* CARP0118-006 10/01/2016

	Rates	Fringes
CARPENTER (Acoustical Ceiling Installation, Drywall Hanging, Form Work and Floor Layer Including Carpet, Hardwood and Resilient)	$ 27.06	19.39

ELEC0490-004 06/01/2016

	Rates	Fringes
ELECTRICIAN		
Electrician	$ 28.00	18.94
Low Voltage Wiring Installer	$ 19.47	16.43

ELEV0004-002 01/01/2016

	Rates	Fringes
ELEVATOR MECHANIC	$ 54.53	29.985

a. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day and the Friday after Thanksgiving.

b. VACATION: Employer contributes 8% of basic hourly rate for 5 years or more of service; 6% of basic hourly rate for 6 months to 5 years of service as vacation pay credit.

IRON0007-007 03/16/2016

	Rates	Fringes
IRONWORKER (Reinforcing and Structural)	$ 23.68	21.14

LABO0976-001 07/01/2016

	Rates	Fringes
LABORER: Common or General (Industrial Work Only)	$ 19.96	16.62

LABO0976-002 07/01/2016

	Rates	Fringes
LABORER: Concrete Worker (removing forms, demolition and removal of concrete, pouring and leveling of concrete)	$ 19.96	16.62

SUNH2011-009 02/22/2011

	Rates	Fringes
CARPENTER (Drywall Finishing/Taping Only)	$ 27.02	11.69
CARPENTER, Excludes Acoustical Ceiling Installation, Drywall Finishing/Taping, Drywall Hanging, and Formwork	$ 23.53	8.25
CONCRETE FINISHER	$ 20.65	0.00
GLAZIER	$ 20.25	4.07
LABORER: Common or General	$ 16.46	0.00
LABORER: Mason Tender - Brick	$ 18.15	7.97
OPERATOR: Backhoe	$ 19.30	6.52
OPERATOR: Excavator	$ 21.27	7.63
OPERATOR: Loader	$ 22.03	0.95
PAINTER: Brush and Roller	$ 16.15	0.00
PLUMBER/PIPEFITTER, Includes HVAC Pipe Work	$ 25.34	5.85
ROOFER	$ 17.55	3.25
SHEET METAL WORKER (HVAC Duct Installation Only)	$ 25.50	13.90
SPRINKLER FITTER (Fire Sprinklers)	$ 24.91	5.74
TRUCK DRIVER	$ 20.47	6.70

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION
?

APPENDIX F
Permit Conditions of Approval

The State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

Thomas S. Burack, Commissioner

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SHORELAND IMPACT PERMIT 2016-02623

Permittee: Town of Exeter
c/o Jennifer R. Perry
13 Newfields Rd.
Exeter, NH 03833

Project Location: 13 Newfields Road, Exeter
Exeter Tax Map/Lot No. 49 / 15

Waterbody: Squamscott River

NOTE--
CONDITIONS

APPROVAL DATE: 10/03/2016 **EXPIRATION DATE: 10/03/2021**

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Based upon review of the above referenced application, in accordance with RSA 483-B, a Shoreland Impact Permit was issued. This permit shall not be considered valid unless signed as specified below.

PERMIT DESCRIPTION: Impact 626,850 sq. ft. of protected shorelands in order to expand and upgrade municipal wastewater treatment facilities.

THIS APPROVAL IS SUBJECT TO THE FOLLOWING PROJECT SPECIFIC CONDITIONS:

1. All work shall be in accordance with plans by Wright-Pierce dated September 2016 and received by the NH Department of Environmental Services (DES) on September 15, 2016.
2. Orange construction fencing shall be installed at the limits of the temporary impact area as shown on the approved plans prior to the start of work and shall be maintained throughout the project in order to prevent accidental encroachment into areas in which impacts have not been approved.
3. No more than 7% of the area of the lot within the protected shoreland shall be covered by impervious surfaces unless additional approval is obtained from DES.
4. Native vegetation within an area of at least 35,235 sq. ft. within the Natural Woodland Buffer located between 50 and 150 ft. landward of the reference line shall be retained in an unaltered state in order to comply with RSA 483-B:9, V, (b), (2).
5. Erosion and siltation control measures shall be installed prior to the start of work, be maintained throughout the project, and remain in place until all disturbed surfaces are stabilized.
6. Erosion and siltation controls shall be appropriate to the size and nature of the project and to the physical characteristics of the site, including slope, soil type, vegetative cover, and proximity to wetlands or surface waters.
7. No person undertaking any activity in the protected shoreland shall cause or contribute to, or allow the activity to cause or contribute to, any violations of the surface water quality standards established in Env-Wq 1700.
8. Any fill used shall be clean sand, gravel, rock, or other suitable material.
9. The proposed stormwater management structures shall be installed and maintained to effectively absorb and infiltrate stormwater.

10. Within three days of final grading or temporary suspension of work in an area that is in or adjacent to wetlands or surface waters, all exposed soil areas shall be stabilized by seeding and mulching during the growing season, or if not within the growing season, by mulching with tack or netting and pinning on slopes steeper than 3:1.
11. The individual responsible for completion of the work shall utilize techniques described in the New Hampshire Stormwater Manual, Volume 3, Erosion and Sediment Controls During Construction (December 2008).

GENERAL CONDITIONS THAT APPLY TO ALL DES SHORELAND IMPACT PERMITS:

1. A copy of this permit shall be posted on site during construction in a prominent location visible to inspecting personnel;
2. This permit does not convey a property right, nor authorize any injury to property of others, nor invasion of rights of others;
3. The Wetlands Bureau shall be notified upon completion of work;
4. This permit does not relieve the applicant from the obligation to obtain other local, state or federal permits, and/or consult with other agencies as may be required (including US EPA, US Army Corps of Engineers, NH Department of Transportation, NH Division of Historical Resources (NH Department of Cultural Resources), NHDES-Alteration of Terrain, etc.);
5. Transfer of this permit to a new owner shall require notification to and approval by the Department;
6. This permit shall not be extended beyond the current expiration date.
7. This project has been screened for potential impacts to known occurrences of rare species and exemplary natural communities in the immediate area. Since many areas have never been surveyed, or have received only cursory inventories, unidentified sensitive species or communities may be present. This permit does not absolve the permittee from due diligence in regard to state, local or federal laws regarding such communities or species.

APPROVED: D. Forst
Darlene Forst
DES Wetlands Bureau

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BY SIGNING BELOW I HEREBY CERTIFY THAT I HAVE FULLY READ THIS PERMIT AND AGREE TO ABIDE BY ALL PERMIT CONDITIONS.

OWNER'S SIGNATURE (required)

CONTRACTOR'S SIGNATURE (required)

The State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

Thomas S. Burack, Commissioner

December 8, 2016

Michael Jeffers
Town of Exeter
13 Newfields Road
Exeter, NH 03833

Re: Exeter Wastewater Treatment Facility Upgrades **Permit: AoT-1192**
Tax Map 49, Lot 15, Exeter, NH

Dear Applicant:

Based upon the revised plans and application, approved on December 8, 2016, we are hereby issuing RSA 485-A:17 Alteration of Terrain Permit AoT-1192. As part of the processing of this application, DES waived specific requirements of Rules Env-Wq 1504.09 Stormwater Drainage Report and Env-Wq 1507.04 Groundwater Recharge, with the finding that granting the waiver would not have an adverse impact on the environment, public health, public safety, or abutting properties, and that granting the request is consistent with the intent and purpose of the rules waived. Additional documentation relative to the waiver is contained within the file. This permit is subject to the following conditions:

GENERAL CONDITIONS:

1. Activities shall not cause or contribute to any violations of the surface water quality standards established in Administrative Rule Env-Wq 1700.

2. You must submit revised plans for permit amendment prior to any changes in construction details or sequences. You must notify the Department in writing within ten days of a change in ownership.

3. You must notify the Department in writing prior to the start of construction and upon completion of construction. Forms can be submitted electronically at: https://forms.nh.gov/onlineforms/ . Paper forms are available at that same web page.

4. The plans, latest revision dated December, 2016, and supporting documentation in the permit file are a part of this approval.

5. All stormwater practices shall be inspected and maintained in accordance with Env-Wq 1507.08 and the project Inspection and Maintenance (I&M) Manual. All record keeping required by the I&M Manual shall be maintained by the identified responsible party, and be made available to the department upon request. Photographs of the site and BMPs must accompany the I&M submittals.

6. **This permit expires on December 8, 2021.** No earth moving activities shall occur on the project after this expiration date unless the permit has been extended by the Department. If requesting an extension, the request must be received by the department before the permit expires. The Amendment Request form is available at:
http://des.nh.gov/organization/divisions/water/aot/categories/forms.htm

7. This permit does not relieve the applicant from the obligation to obtain other local, state or federal permits that may be required (e.g., from US EPA, US Army Corps of Engineers, etc.). Projects disturbing over 1 acre may require a federal stormwater permit from EPA. Information regarding this permitting process can be obtained at: http://des.nh.gov/organization/divisions/water/stormwater/construction.htm.

8. If applicable, no activity shall occur in wetland areas until a Wetlands Permit is obtained from the Department. Issuance of this permit does not obligate the Department to approve a Wetlands Permit for this project.

Sincerely,

GS Andrews

Gloria S. Andrews, P.E.
Alteration of Terrain Bureau

cc: Exeter Planning Board

ec: Jeffrey Preble, Wright-Pierce (Email: jeff.preble@wright-pierce.com)
Theresa Walker, Exeter-Squamscott River LAC (Email: theresawalker@comcast.net)

The State of New Hampshire

NHDES

Department of Environmental Services

Clark B. Freise, Acting Commissioner

January 6, 2017

Jennifer R. Perry, P.E.
Director of Public Works
Town of Exeter
13 Newfields Road
Exeter, NH 03833

RE: NH DES Wetlands Bureau File 2016-02734, 13 Newfields Road, Exeter Tax Map 49 Lot 15

Dear Ms. Perry:

Attached please find Wetlands Permit 2016-02734 to impact a total of 35,505 square feet of jurisdictional area to include temporarily impacting 32,570 square feet within the previously-developed 100-foot tidal buffer zone and 2,195 square feet of temporary impact and 740 square feet of permanent impact within the bed and banks of Norris Brook, a perennial stream, for the upgrade to the existing waste water treatment facility adjacent to the Squamscott River and contiguous with the Great Bay Estuary.

The decision to approve this application was based on the following findings:

1. This is a minor impact project per Administrative Rule Env-Wt 303.03(a) Projects in any bank, flat, marsh, or swamp or in and adjacent to any waters of the state or within 100 feet of the highest observable tide line that do not meet any of the criteria of Env-Wt 303.02, Env-Wt 303.04 or Env-Wt 303.05 and Env-Wt 303.03 (l) Projects that alter the course of or disturb less than 200 linear feet of an intermittent or perennial nontidal stream or river channel or its banks and do not meet the criteria for minimum impact under Env-Wt 303.04(n).
2. The U.S. Environmental Protection Agency issued an Administrative Order on Consent Docket No. 13-010 (the "Order") to the Town of Exeter outlining violations of the Clean Water Act and National Pollutant Discharge Elimination System Permit No. NH0100871. The Order provided a schedule for compliance; therefore, the need for the proposed impacts has been demonstrated by the applicant per Env-Wt 302.01.
3. The applicant has provided evidence which demonstrates that this proposal is the alternative with the least adverse impact to areas and environments under the department's jurisdiction per Env-Wt 302.03.
4. The applicant has demonstrated by plan and example that each factor listed in Env-Wt 302.04(a) and (c) Requirements for Application Evaluation, has been considered in the design of the project.
5. The application included NH Natural Heritage Bureau (NHB) Datacheck Results Letter NHB16-0615 identified a natural community, plant species, and several vertebrate species in the vicinity of the proposed impacts.
6. In response to the NHB letter, the applicant addressed concerns raised by NHB and the NH Fish and Game Dept.
7. The Exeter Conservation Commission "Investigated this application and have no objection to the issuance of this permit."
8. The Exeter-Squamscott River Local Advisory Committee "supports the work as proposed."

Any person aggrieved by this decision may appeal to the N.H. Wetlands Council ("Council") by filing an appeal that meets the requirements specified in RSA 482-A:10, RSA 21-O:14, and the rules adopted by the Council, Env-WtC 100-200. The appeal must be filed **directly with the Council within 30 days** of the date of this decision and must set forth fully **every ground** upon which it is claimed that the decision complained of is unlawful or unreasonable. Only those grounds set forth in the notice of appeal can be considered by the Council.

Information about the Council, including a link to the Council's rules, is available at <http://nhec.nh.gov/> (or more directly at <http://nhec.nh.gov/wetlands/index.htm>.) Copies of the rules also are available from the DES Public Information Center at (603) 271-2975.

Your permit must be signed, and a copy must be posted in a prominent location on site during construction.

If you have any questions, please contact me at (603) 559-1515 or via email at eben.lewis@des.nh.gov.

Sincerely,

Eben M. Lewis
Wetlands Inspector
Southeast Region Supervisor
DES Wetlands Bureau

enclosures

ec: Jeffrey D. Preble, P.E., Wright-Pierce
Amy Lamb, NH Natural Heritage Bureau
Kim Tuttle, NH Fish and Game Dept.
Russel Dean, Exeter Town Manager
Dan Chartrand, Chair, Exeter Board of Selectmen
Kelly Bergeron, Chair, Exeter Planning Board
Michael Jeffers, Exeter Water Sewer Managing Engineer
Kristin Murphy, Exeter Conservation Commission
Theresa Walker, Exeter-Squamscott River Local Advisory Committee
Tracey L. Wood, P.E., Administrator, NHDES Wastewater Engineering Bureau
Joy Hilton, US Environmental Protection Agency

The State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

Thomas S. Burack, Commissioner

NOTICE TO RECIPIENTS OF MINOR IMPACT NH WETLANDS PERMITS

Your permit was approved by the New Hampshire Wetlands Bureau as a minor impact project. Your project will be reviewed by the US Army Corps of Engineers for possible approval under the Army Corps New Hampshire State Programmatic General Permit – SPGP. The Army Corps will notify you within thirty (30) days if they will require additional information, or an individual federal permit application.

If you do not hear from the Army Corps within thirty (30) days, and your project meets the conditions of the SPGP (attached), your project will automatically be approved under the SPGP. You should contact the Army Corps, at 1-800-343-4789 (ME, NH, VT, CT, RI), 1-800-362-4367 (MA), if your project does not meet the conditions of the SPGP.

NO WORK SHOULD BE DONE WITHOUT AUTHORIZATION FROM THE ARMY CORPS UNLESS THIRTY (30) DAYS HAVE PASSED AFTER NH WETLANDS BUREAU APPROVAL AND ALL CONDITIONS OF THE SPGP ARE MET.

THESE APPROVALS DO NOT RELEIVE YOU FROM OBTAINING ANY NECESSARY LOCAL PERMITS THAT MAY BE REQUIRED BY YOUR TOWN.

IF YOU HAVE ANY QUESTIONS, PLEASE FEEL FREE TO GIVE US A CALL AT 603-271-2147.

****

cc: US Army Corps. of Engineers

The State of New Hampshire

Department of Environmental Services

Clark B. Freise, Acting Commissioner

WETLANDS AND NON-SITE SPECIFIC PERMIT 2016-02734 PAGE 1 OF 2

Permittee:	**Town of Exeter** **13 Newfields Rd** **Exeter, NH 03833**
Project Location:	**13 Newfields Road, Exeter** **Exeter Tax Map 49 Lot 15**
Waterbody:	**Squamscott River**

NOTE -- CONDITIONS

APPROVAL DATE: 01/06/2017 **EXPIRATION DATE: 01/06/2022**

Based upon review of the above referenced application, in accordance with RSA 482-A and RSA 485-A:17, a Wetlands Permit and Non-Site Specific Permit was issued. This permit shall not be considered valid unless signed as specified below.

PERMIT DESCRIPTION: Impact a total of 35,505 square feet of jurisdictional area to include temporarily impacting 32,570 square feet within the previously-developed 100-foot tidal buffer zone and 2,195 square feet of temporary impact and 740 square feet of permanent impact within the bed and banks of Norris Brook, a perennial stream, for the upgrade to the existing Exeter Wastewater Treatment Facility adjacent to the Squamscott River and contiguous with the Great Bay Estuary.

THIS APPROVAL IS SUBJECT TO THE FOLLOWING PROJECT SPECIFIC CONDITIONS:

1. All work shall be in accordance with plans by Wright-Pierce revised through 09/16 as received by the NH Department of Environmental Services (DES) on September 21, 2016.
2. This permit is not valid unless an Alteration of Terrain permit or other method of compliance with RSA 485-A:17 and Env-Wq 1500 is achieved.
3. Not less than 5 state business days prior to starting work authorized by this permit, the permitted shall notify the DES Wetlands Program and the Exeter Conservation Commission in writing of the date on which work under this permit is expected to start.
4. Any further alteration of areas on this property that are subject to RSA 482-A jurisdiction will require further permitting.
5. All development activities associated with this project shall be conducted in compliance with applicable requirements of RSA 483-B and N.H. Code Admin. Rules Env-Wq 1400 during and after construction.
6. No person undertaking any activity shall cause or contribute to, or allow the activity to cause or contribute to, any violations of the surface water quality standards in RSA 485-A and Env-Wq 1700.
7. Work shall be carried out in a time and manner to avoid disturbances to migratory waterfowl breeding and nesting areas.
8. Appropriate siltation and erosion controls shall be in place prior to construction, shall be maintained during construction, and shall remain until the area is stabilized. Temporary controls shall be removed once the area has been stabilized.

9. The use of welded plastic or 'biodegradable plastic' erosion control netting should be avoided at this work site as these products are a known source of entanglement and mortality to the state threatened black racer and other wildlife species. Coco matting or the use of erosion control berm okay.
10. Prior to commencing work on a substructure located within Norris Brook, the permittee or permittee's contractors shall construct a cofferdam to isolate the substructure work area from Norris Brook.
11. Cofferdams shall not be installed during periods of high flow, whether due to seasonal runoff or precipitation. Once the cofferdam is fully effective, confined work can proceed without restriction.
12. Work within the stream, inclusive of work associated with installation of a cofferdam, shall be done during periods of low flow only. The permittee shall monitor local weather forecasts to avoid working during or following precipitation events.
13. Discharge from dewatering of work areas shall be to sediment basins that are: a) located in uplands; b) lined with hay bales or other acceptable sediment trapping liners; c) set back as far as possible from wetlands and surface waters, with a preferred undisturbed vegetated buffer of at least 50 feet and a minimum undisturbed vegetative buffer of 20 feet.
14. Dredged materials, whether to be stockpiled or disposed of, shall be dewatered in sedimentation basins lined with siltation and erosion controls, and located outside of areas subject to RSA 482-A jurisdiction.
15. The temporary cofferdam shall be entirely removed within 2 days after work within the cofferdam is completed and water has returned to normal clarity.
16. The contractor responsible for completion of the work shall use techniques described in the New Hampshire Stormwater Manual, Volume 3, Erosion and Sediment Controls During Construction (December 2008).
17. Any fill used shall be clean sand, gravel, rock, or other suitable material.
18. Extreme precautions shall be taken within riparian areas to prevent unnecessary removal of vegetation during construction. Areas cleared of vegetation must be revegetated with like native species within three days of the completion of the disturbance.
19. Construction equipment shall be inspected daily for leaking fuel, oil, and hydraulic fluid prior to entering surface waters or wetlands or operating in an area where such fluids could reach groundwater, surface waters, or wetlands.
20. The permittee's contractor shall maintain appropriate oil/diesel fuel spill kits on site that are readily accessible at all times during construction, and shall train each operator in the use of the kits.
21. All refueling of equipment shall occur outside of surface waters or wetlands during construction. Machinery shall be staged and refueled in upland areas only.
22. Faulty equipment shall be repaired immediately prior to entering areas that are subject to RSA 482-A jurisdiction.
23. Topsoil in wetlands shall be stripped and segregated from subsoil during construction. Wetland topsoil shall be stockpiled separately from subsoil and shall be restored following backfill.
24. Native material removed from the streambed during construction shall be stockpiled separately and reused to emulate a natural channel bottom within the culvert, between wing walls, and beyond. Any new materials used must be as similar to the natural stream substrate as practicable and shall not include any angular rock.
25. A post-construction report , prepared by a Certified Wetland Scientist or Qualified Professional, as applicable, documenting status of the project area and restored jurisdictional area or buffer, including photographs, shall be submitted to the DES Wetlands Program within 60 days of the completion of construction. DES Wetlands Program may require subsequent monitoring and corrective measures if DES deemed the area inadequately stabilized or restored.
26. Restoration of temporary impact areas shall have at least 75% successful establishment of wetlands vegetation after two (2) growing seasons, or they shall be replanted and re-established until a functional wetland is replicated in a manner satisfactory to the DES Wetlands Program.
27. Restoration of temporary impact areas shall not be considered successful if sites are invaded by nuisance species such as common reed or purple loosestrife during the first full growing season following the completion of construction. The permittee shall submit a remediation plan to DES that proposes measures to be taken to eradicate nuisance species during this same period.

GENERAL CONDITIONS THAT APPLY TO ALL DES WETLANDS PERMITS:

1. A copy of this permit shall be posted on site during construction in a prominent location visible to inspecting personnel;
2. This permit does not convey a property right, nor authorize any injury to property of others, nor invasion of rights of others;
3. The Wetlands Bureau shall be notified upon completion of work;
4. This permit does not relieve the applicant from the obligation to obtain other local, state or federal permits, and/or consult with other agencies as may be required (including US EPA, US Army Corps of Engineers, NH Department of Transportation, NH Division of Historical Resources (NH Department of Cultural Resources), NHDES-Alteration of Terrain, etc.);
5. Transfer of this permit to a new owner shall require notification to and approval by DES;
6. This project has been screened for potential impacts to **known** occurrences of rare species and exemplary natural communities in the immediate area. Since many areas have never been surveyed, or have received only cursory inventories, unidentified sensitive species or communities may be present. This permit does not absolve the permittee from due diligence in regard to state, local or federal laws regarding such communities or species.
7. Review enclosed sheet for status of the US Army Corps of Engineers' federal wetlands permit.

APPROVED: _____

Eben M. Lewis
DES Wetlands Bureau

==========

BY SIGNING BELOW I HEREBY CERTIFY THAT I HAVE FULLY READ THIS PERMIT AND AGREE TO ABIDE BY ALL PERMIT CONDITIONS.

_____ OWNER'S SIGNATURE (required)

_____ CONTRACTOR'S SIGNATURE (required)

The State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

Clark B. Freise, Assistant Commissioner

VIA E-MAIL & US MAIL

January 13, 2017

Mr. Michael Jeffers
Water & Sewer Managing Engineer
Public Works Department
13 Newfields Road
Exeter, New Hampshire 03833
E-mail: mjeffers@exeternh.gov

RE: Contract No. 1 - Exeter Wastewater Treatment Facility (WWTF) Upgrade:
Revised Exeter Lagoon Closure Plan and 100% Bidding Documents - **Approval**

Dear Mr. Jeffers:

The NH Department of Environmental Services, Wastewater Engineering Bureau (WEB) – Residuals Management Section (RMS), has reviewed the above-referenced revised Lagoon Closure Plan (LCP), and Section 02001 – Removal, Disposal and Transfer of Lagoon Sludge of the 100% Bidding Documents, received/downloaded on December 6, 2016 and December 13, 2016. The revised LCP meets the requirements of Env-Wq 800 and addresses RMS's October 19, 2016 and December 8, 2016 review comments. The LCP is herein **approved** with the following conditions:

1. Prior to any construction activities, the Contractor shall meet all conditions set forth in the EPA Construction General Permit (CGP) and be prepared to implement the required Stormwater Pollution Prevention Plan requirements, as referenced in the Contract Documents.
2. Implement, as well as monitor and maintain erosion and sedimentation control methods prior to all land disturbances, during construction and until final site stabilization, in accordance with the CGP, Alteration of Terrain Permit No. AoT-1192, and the Contract Documents.
3. All sludge material shall be disposed of off-site at a permitted facility. No sludge shall be land applied on-site without prior RMS approval.
4. Contact and schedule field inspections by RMS staff for each of the following steps in the lagoon closure process:
    a. During sludge removal/excavation of the lagoon;
    b. First phases of sludge transfer operation from Lagoon No. 2 and Lagoon No. 3 to Lagoon No. 1;
    c. At the beginning of material segregation to set guidelines with the Engineer for visual determination of sludge material, during the excavation of the first several "cells"; and
    d. During sampling of soil beneath the excavation as described in Section 2.2.7 of the approved LCP.
5. Continue groundwater monitoring and reporting, as required by the Department's Drinking Water and Groundwater Bureau (DWGB), in accordance with the Groundwater Discharge Permit #GWP-198401079-E-001 (issued January 23, 2012), as modified or renewed by the DWGB.

www.des.nh.gov
29 Hazen Drive • PO Box 95 • Concord, NH 03302-0095
(603) 271-3503 • TDD Access: Relay NH 1-800-735-2964

6. Any lagoon or sludge dewatering supernatant generated/collected during the lagoon closure shall not be discharged to surface water or groundwater without first receiving a Temporary Stormwater or Groundwater Discharge Permit, from the Department's WEB or DWGB, respectively.
7. The land application of future sludge from the updated WWTF shall only be allowed if the sludge meets the Sludge Quality Certification requirements in Env-Wq 809.

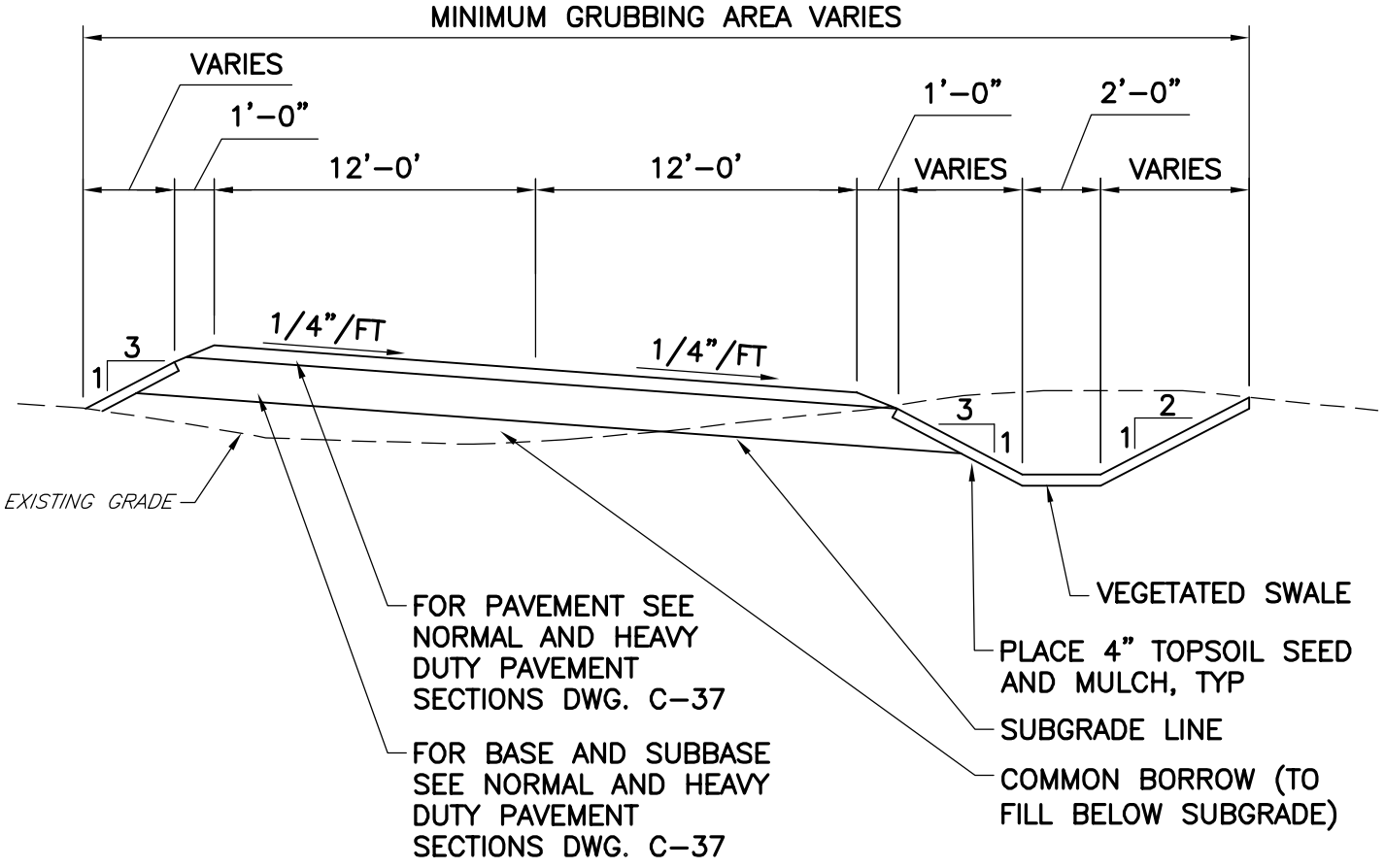
Please feel free to contact me at (603) 271 – 7888 or judith.houston@des.nh.gov with any questions or comments regarding this approval or the proposed lagoon closure.

Sincerely,

Judith E. Sears Houston, P.E.
Residuals Management Section
Wastewater Engineering Bureau

Cc./Ec. file/db

D. Andrew Morrill, P.E.; Wright-Pierce; *E-mail: andy.morrill@wright-pierce.com*
Tracy L. Wood, P.E.; NHDES WEB Administrator; *E-mail: tracy.wood@des.nh.gov*
Dennis Greene, P.E.; NHDES WEB/DR; *E-mail: dennis.greene@des.nh.gov*
Jeffrey Andrews, P.E.; NHDES WEB; *E-mail: Jeffrey.Andrews@des.nh.gov*
Gloria Andrews, P.E.; NHDES AoT; *E-mail: Gloria.Andrews@des.nh.gov*
Mitch Locker; NHDES DWGB; *E-mail: Mitchell.Locker@des.nh.gov*



TYPICAL ACCESS ROAD SECTION

NTS

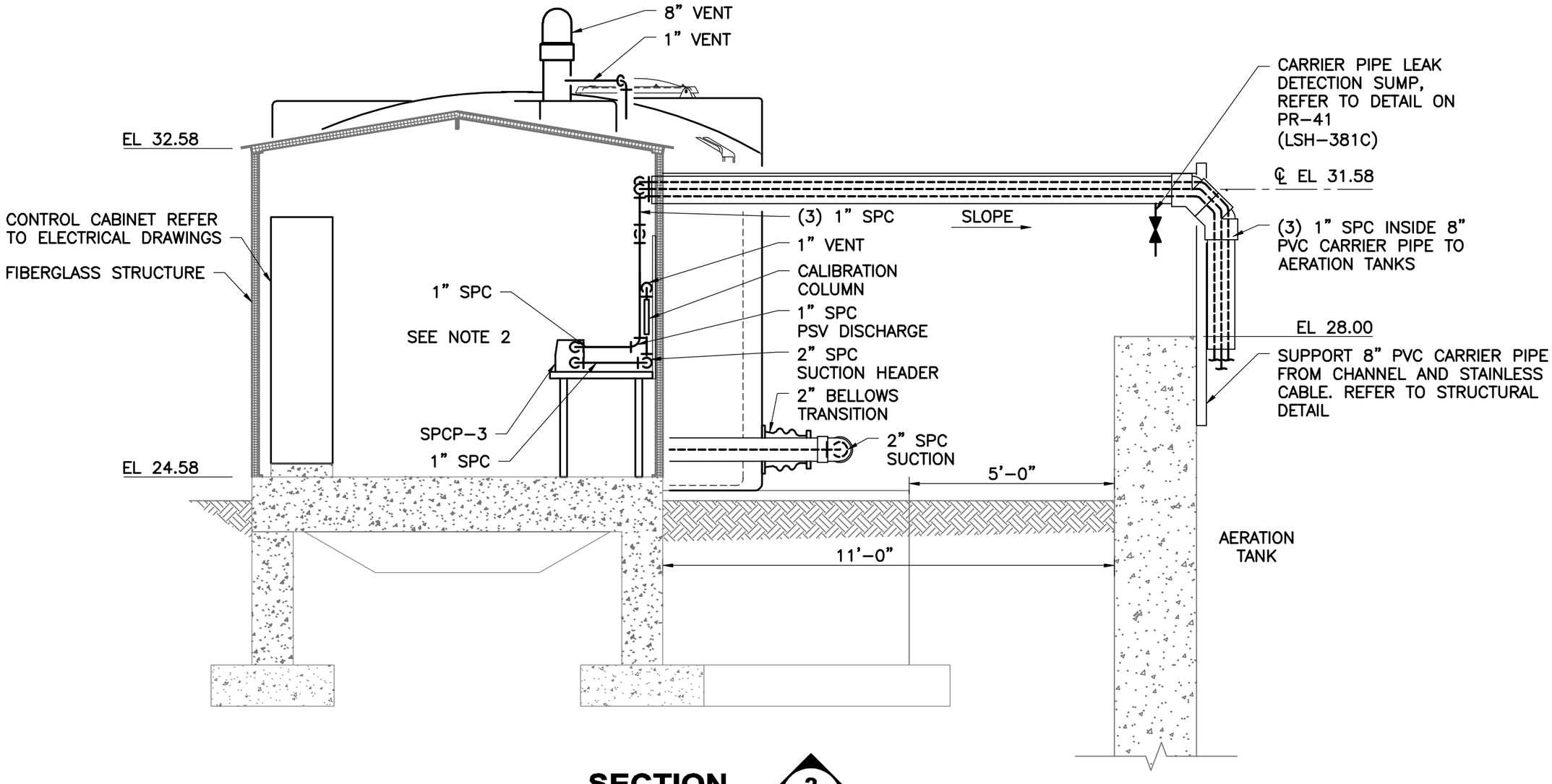
EXETER, NEW HAMPSHIRE CONTRACT NO. 1 WASTEWATER TREATMENT FACILITY UPGRADES			
PROJ NO: 12883 / DATE: JANUARY 2017			
WRIGHT-PIERCE Engineering a Better Environment			

NO.	REVISIONS	DRAWN BY	APP'D
1	REVISED ACCESS ROAD SECTION	RJB	JDP
2			
3			

ADDENDUM NO. 1

REFERENCE: DWG C–32

FIGURE: **C1**



SECTION 2

SCALE: 3/8"=1'-0"

NO.	REVISIONS	DRAWN BY	APP'D
1	DETAIL TEXT CLARIFICATION	APC	EJL
2			
3			

FIGURE: **PR1**

ADDENDUM NO. 1
REFERENCE: DWG PR-26

EXETER, NEW HAMPSHIRE
CONTRACT NO. 1
WASTEWATER TREATMENT
FACILITY UPGRADES

PROJ NO: 12883 DATE: JANUARY 2017

WRIGHT-PIERCE
Engineering a Better Environment