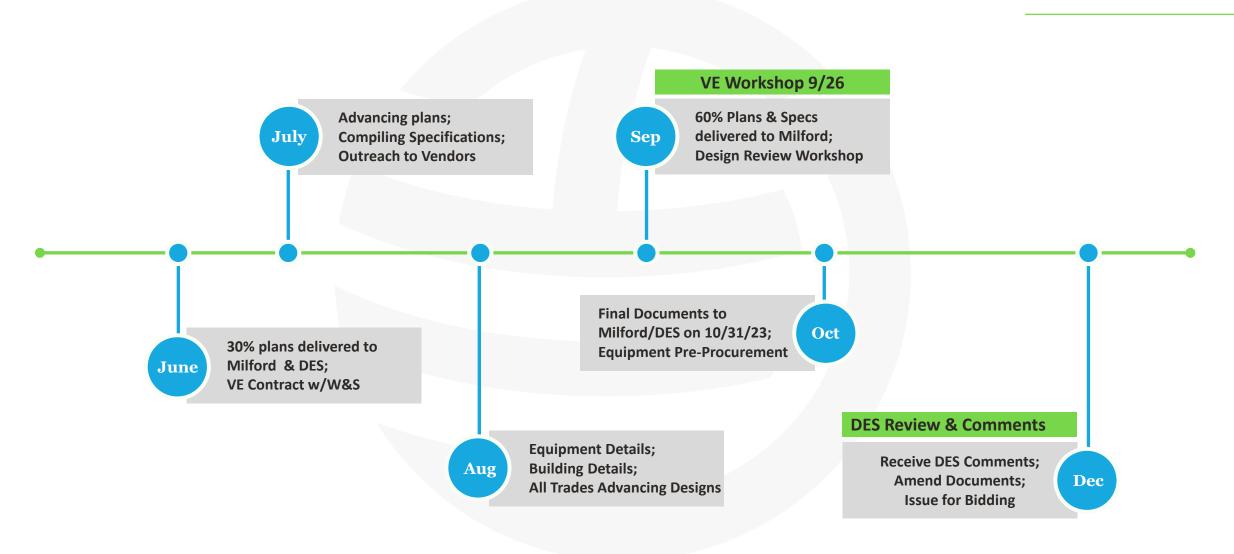


Timeline





Project Overview





DRAINAGE NOTES:

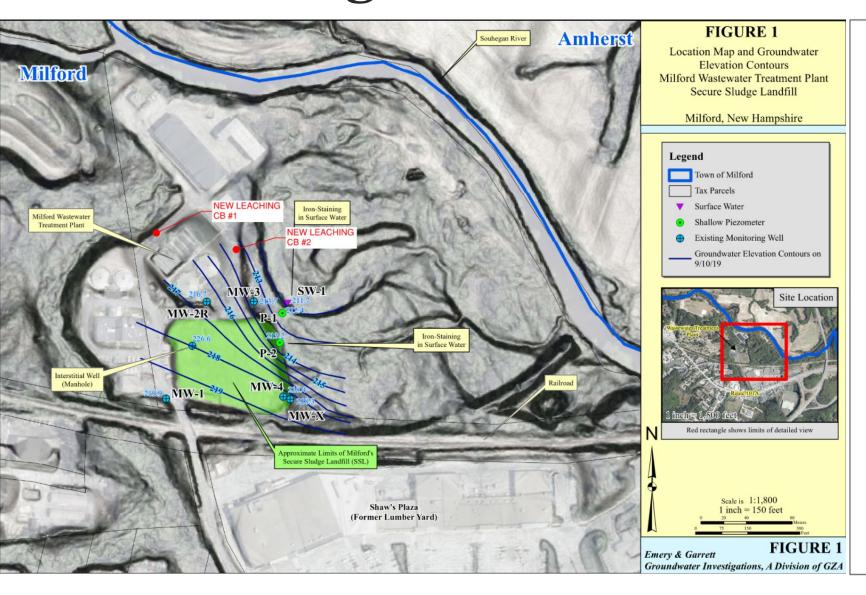
- THE STORM DRAINAGE SYSTEM SHALL BE CONSTRUCTED TO LINE AND GRADE AS SHOWN ON THE PLANS. ALL PIPE MATERIALS SHALL BE AS SPECIFIED ON THE PLANS.
- PROPOSED RIM ELEVATIONS OF DRAINAGE MANHOLES AND CATCH BASINS ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH WITH FINISH GRADES.
- THE CONTRACTOR SHALL PROVIDE FOR THE HANDLING OF EXISTING FLOWS FROM SERVICE CONNECTIONS AND MAINLINE PIPES. THE EXISTING SEWERS AND DRAINS HAVE ACTIVE FLOWS AND THE CONTRACTOR SHALL MAINTAIN CONTINUOUS FLOW WITHOUT RESTRICTIONS.
- THE CONTRACTOR SHALL STABILIZE ANY AND ALL DITCHES, SWALES AND PONDS PRIOR TO DIRECTING STORM WATER RUN-OFF TO THEM.
- 5. WHEN CONNECTING NEW PIPES TO EXISTING STRUCTURES SUCH AS MANHOLES AND CATCH BASINS, THE STRUCTURE SHALL BE COMPLETELY CLEANED OUT. THE HOLE MADE IN THE STRUCTURE SHALL BE AS SMALL AS NECESSARY. THE STRUCTURE SHALL BE REPAIRED TO MATCH ITS ORIGINAL TYPE OF CONSTRUCTION. THE JOINT BETWEEN THE STRUCTURE AND THE PIPE SHALL BE MADE WATERTIGHT BY FILLING THE JOINT WITH MORTAR.
- THE CONTRACTOR SHALL CLEAN THE ENTIRE STORMWATER SYSTEM OF ALL SEDIMENT AND DEBRIS, WITHIN THE LIMIT OF WORK UPON COMPLETION OF CONSTRUCTION.
- ALL DRAIN PIPE WITH LESS THAN 3' OF COVER SHALL BE INSULATED. INSULATION SHALL BE 2-INCH THICK, 4-FEET WIDE RIGID CLOSED CELL WITH A MINIMUM R VALUE OF 10.
- 8. ALL PROPOSED CATCH BASINS SHALL BE DEEP SUMP CATCH BASINS WITH 4' SUMPS.

EARTHWORK & GRADING NOTES:

- 1. GRADE AWAY FROM BUILDING WALLS AT 2% MINIMUM (TYPICAL).
- 2. PROVIDE UNIFORM SLOPE BETWEEN CONTOURS AND/OR SPOT ELEVATIONS.
- EARTH SLOPES SHALL BE NO STEEPER THAN 2:1 (HORIZONTAL: VERTICAL) AND SHALL BE FLATTER WHERE SHOWN.
- 4. GENERAL FILL BEYOND PAVED AREAS SHALL BE FREE OF BRUSH RUBBISH, STUMPS, AND STONES LARGER THAN 8°. FILL SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 8" IN THICKNESS. THE DRY DENSITY AFTER COMPACTION SHALL NOT BE LESS THAN 95% OF THE STANDARD PROCTOR TEST AND DONE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM D698.
- . AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, THE SUBGRADE SHALL BE LOOSENED BY SCARFYING TO A DEPTH OF AT LEAST 2" TO ENSURE BONDING OF THE TOPSOIL AND SUBSOIL.
- FILL OR TOPSOIL SHALL NEITHER BE PLACED NOR COMPACTED WHILE IN A FROZEN OR MUDDY CONDITION OR WHILE SUBGRADE IS FROZEN.
- FINISH PAVEMENT SURFACES AND LAWN AREAS SHALL BE FREE OF LOW SPOTS AND PONDING AREAS.
- ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS THAT DO NOT HAVE A SURFACE TREATMENT SPECIFICALLY SPECIFIED SHALL BE RESTORED TO A MINIMUM OF 6-INCHES OF SEEDED TOPSOIL, FERTILIZER, AND MULCH.
- 9. SPOT GRADES SHOWN ARE PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.

Permitting





Wood Turtle

(New Hampshire Species of Special Concern)

Turtles may be attracted to disturbed ground during nesting season (May 15th - June 30th)

Turtles are most active from April 15th - October 15th



Identifying traits

- Neck and forelimbs are orange.
- Characterized by its highly sculpted shell with each large scute taking on an irregular pyramidal shape.
- Adults can be 5-8 inches long.

Habitat Use

- wooded areas near streams
- uplands surrounding streams





NOTE: It is illegal to remove a wood turtle from the wild.



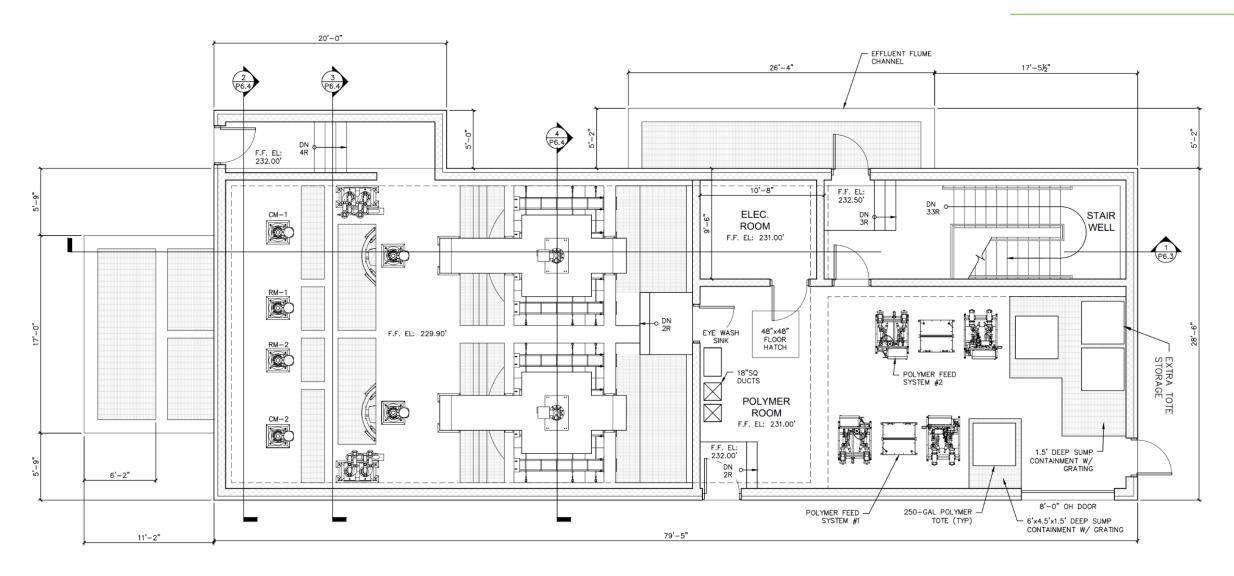
Observations shall be reported to NH Fish & Game at NHFGReview@wildlife.nh.gov or at 603-271-2461

Photo documentation, location and date/time of observation is helpful.

State laws pertaining to this species RSA 207:1, FIS 804.02, Fis 1401.03 (a)

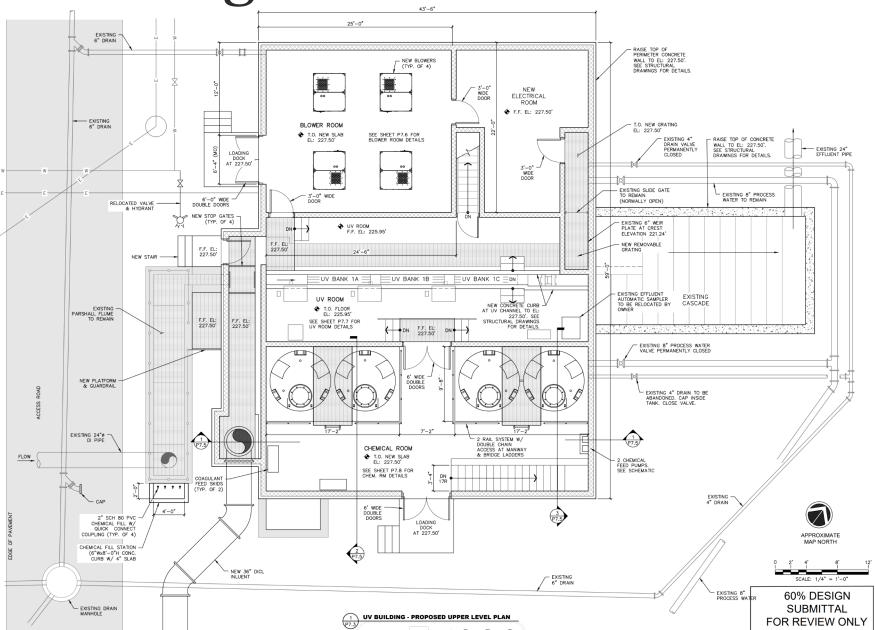
Tertiary Building





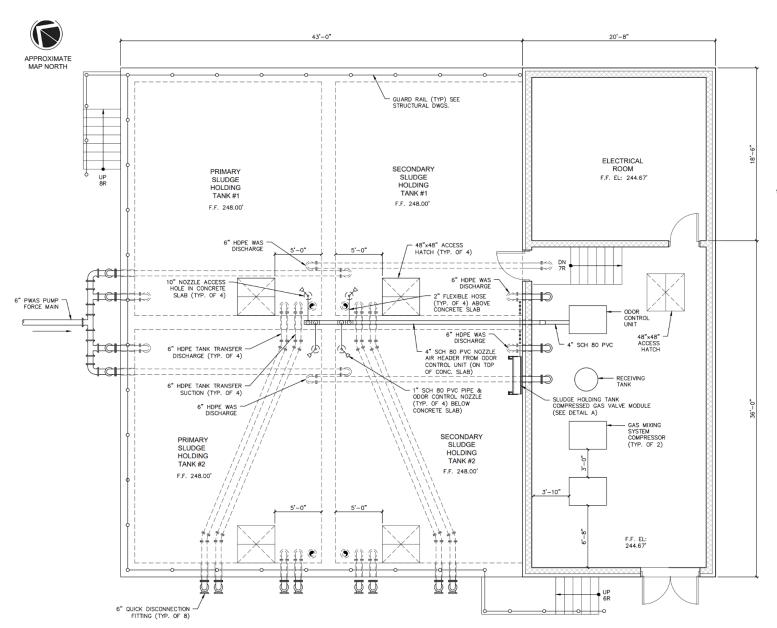
UV Building

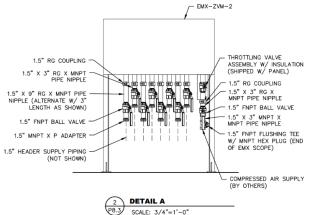




Sludge Storage / Pumping

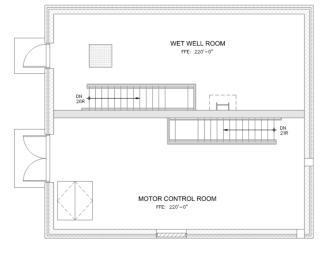






Main Pump Station



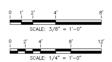




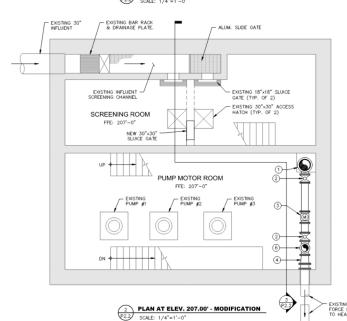
APPROXIMATE

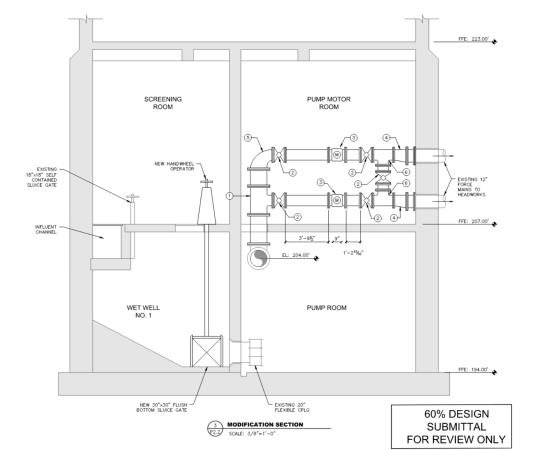
LEGEND

- (1) 16"×10" TEE
- 10" PLUG VALVE
 10" MAGNETIC METER
- (4) 10" TO 12" ECCENTRIC REDUCER
- (5) 16"x10" REDUCING BEND
- 6 10" TEE



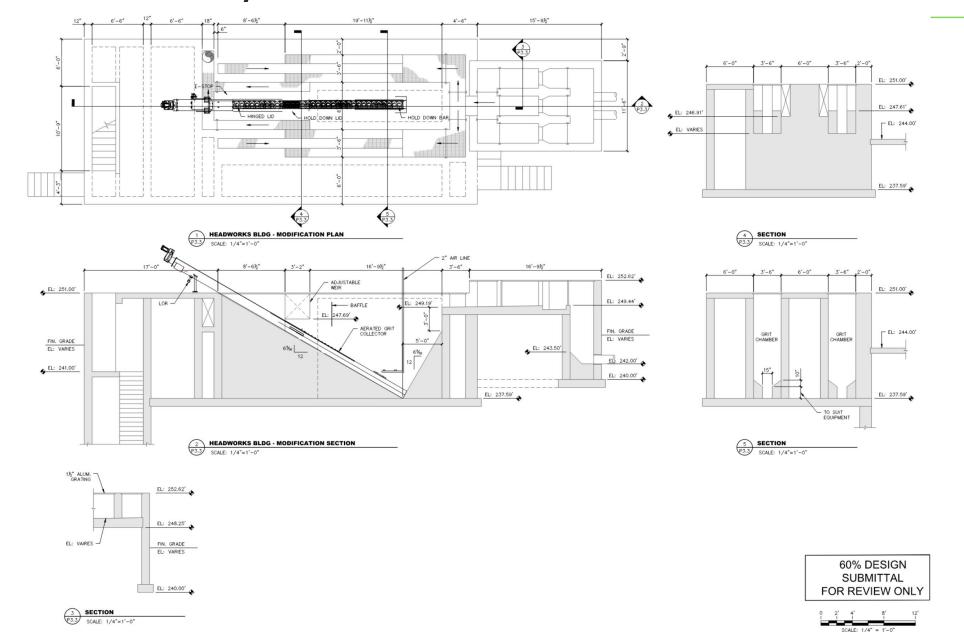






Headworks / Grit Removal

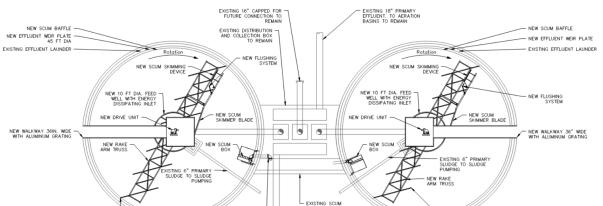




Primary Clarifiers

NEW RAKE BLADE W/ ADJUSTABLE SQUEEGEE. 4 IN. CLEARANCE FROM CONCRETE SIDEWALL

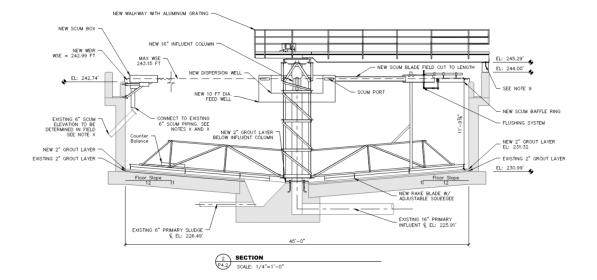




EXISTING 6" SCUM -PIPE (LOCATION ASSUMED)



CLARIFIER INFLUENT TO REMAIN

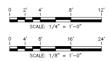




APPROXIMATE

NEW RAKE BLADE W/ ADJUSTABLE SQUEEGEE.
4 IN. CLEARANCE FROM CONCRETE SIDEWALL

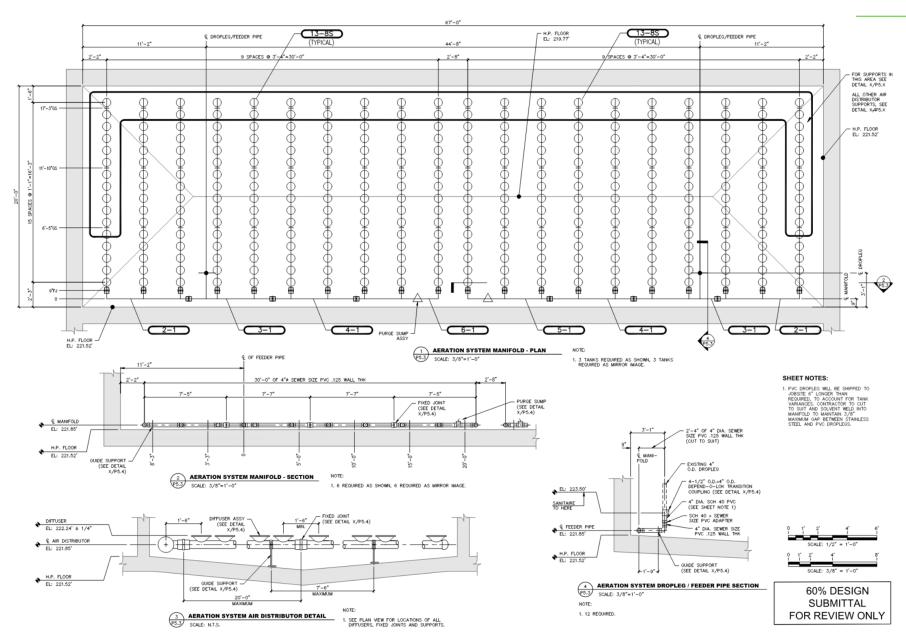
- CONTRACTOR SHALL REPAIR AND COAT EXISTING CONCRETE. SEE STRUCTURAL DRAWING S.X FOR CONCRETE REPAIR AND COATING DETAILS AND REQUIREMENTS.
- ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS MUST BE VERIFIED BY THE GENERAL CONTRACTOR OR RESPONSIBLE TRADES PRIOR TO COMMENCING WITH THE WORK, FABRICATION, OR ROBERING OF MATERIALS.
- CONTRACTOR SHALL REPAIR EXISTING CONCRETE AS NECESSARY DUE TO DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES.
- 4. CONTRACTOR IS RESPONSIBLE FOR MAKING THE CONNECTION BETWEEN THE EXISTING 6" SCUM PIPE AND THE NEW SCUM BOX COUTLET. THE EXISTING 6" SCUM PIPE AND OR EXISTING PIPE PENETRATION IN THE CLARIFIER TANK MAY NEED TO BE ALTERED TO ACCOMMODATE THE NEW SCUM BOX OUTLET. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, INCLUDING ELEVATION OF EXISTING SCUM PIPE, AND SUBMIT PLAN FOR APPROVIAL.
- CONTRACTOR SHALL INSTALL MOUNT, AND SUPPORT NEW CLARIPER EQUIPMENT AS PER THE MANIFACTURER'S RECOMMEDIATIONS. CONTRACTOR MAY INEED TO MAKE MODIFICATIONS TO ACCOMMODATE NEW EQUIPMENT AND EXISTING FIELD CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH MANIFACTURER.
- 6. SEE SPECIFICATIONS SECTION ##### FOR DETAILS OF CLARIFIER REPLACEMENT PARTS.
- 7. ALL HARDWARE, FASTENERS, ANCHORS, ETC. SHALL BE STAINLESS STEEL.
- CONTRACTOR IS RESPONSIBLE FOR FLEXIBLE CONNECTIONS BETWEEN EXISTING SCUM PIPING AND NEW SCUM BOX. FLEXIBLE COUPLING SHALL BE INSTALLED WITH STAINLESS STEEL CLAMPS.
- SEE STRUCTURAL DRAWING S.X FOR DETAILS ON CONCRETE CURB CONSTRUCTION FOR WALKWAY BRIDGE INSTALLATION.
- 10. SLUDGE BLANKET LEVEL INDICTORS TO BE INSTALLED BY MILFORD WWTF STAFF



60% DESIGN SUBMITTAL FOR REVIEW ONLY

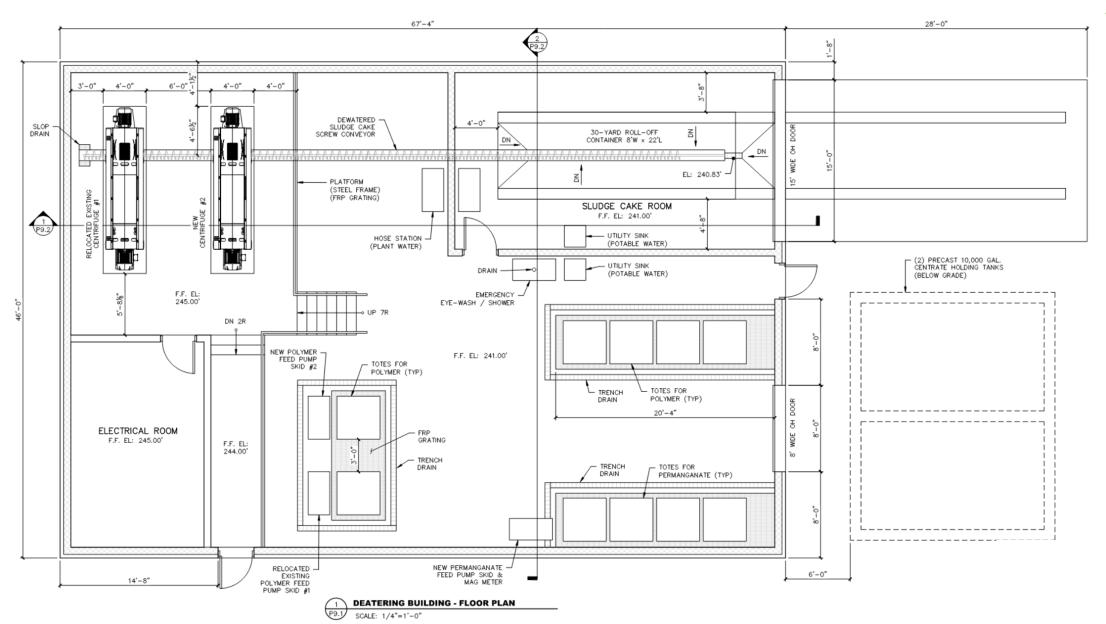
Aeration Tanks





Sludge Dewatering Building





Value Engineering Workshop



- Weston & Sampson Selected in June
- Toured Facility in July
- Reviewed Reports, Plans, Basis of Design, Estimates
- Value Engineering Workshop September 26, 2023
- Recommendations from VE Workshop will be considered

Equipment Pre-Procurement



- Recommended for Critical Equipment
 Tertiary Process Equipment from Veolia
 New UV Ballasts from Trojan
- Requires DES Authorization
- Requires Milford to Sign PO and Provide 10% Deposit
- Equipment Responsibility goes to Contractor once engaged

