



April 5, 2017

Mr. Michael Behrendt  
Director of Planning and Community Development  
Town of Durham  
8 Newmarket Road  
Durham, New Hampshire 03824

Re: UNH Water Treatment Plant

Dear Michael:

The University is funding and managing the design and construction of a new Water Treatment Plant to replace the existing plant. I am submitting the attached material in compliance with New Hampshire RSA 674:54 to explain the elements and construction of this project. This project, which has been included in the 2012 Campus Master Plan, is now in design with construction anticipated to start in mid-June at the earliest.

The existing water treatment plant was originally constructed in 1935 with only limited upgrades in the 1970's. At nearly 80 years old, it has outlived its useful life. Currently, the plant operates as a 1.5 million gallons/day conventional plate settling and filtration plant. The new plant will use a similar filtration system but with a capacity of 2.0 mgd. It will better handle the varied range of water characteristics of the three water sources: the Lamprey River, the Oyster River, and the underground natural holding volume known as Spruce Hole. The existing plant is within the 100 year flood plain, and the new plant will be well above the flood plain.

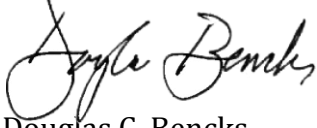
This \$20m project creates a new 41,800 sf facility with three settling lagoons outside to manage the organic materials that are filtered out of the water. Organic sludge from the filters will sit in a lagoon for up to one year as water settles out. The remaining material is then removed and taken off site by a third party contractor. The site for all of this is adjacent to the existing water plant but well above the 100 year flood plain.

The facility will tie into the existing water and sewer distribution system. The construction will disturb less than 8,000 sf of wetlands. The design/build team is currently processing permit applications with the NH DES for wetlands, shore lands, and alteration of terrain. The shore land scope of this project is to restore vegetation in the area where two settling lagoons currently exist. We have had meetings with DES for all of these permits and the start of construction is dependent on when the permits are issued. The earliest date possible is mid-June.

The building materials are a combination of brick and concrete block exterior. The two story gabled roof form and the composition and massing of the building are intended to fit within the context of this isolated site where the Flow Physics Facility, aka wind tunnel, and UNH Grounds and Events are located.

Attached are the most current drawings available at this time for review. I am prepared to meet with the Planning Board at their convenience, to hear comments and answer any questions they may have about this project.

Respectfully,

A handwritten signature in black ink, appearing to read "Douglas C. Bencks". The signature is fluid and cursive, with the first name "Douglas" and last name "Bencks" clearly distinguishable.

Douglas C. Bencks  
University Architect and Director of Campus Planning

Copy: William Janelle, Chris Clement, Matt O'Keefe, Mica Stark

Attachments:

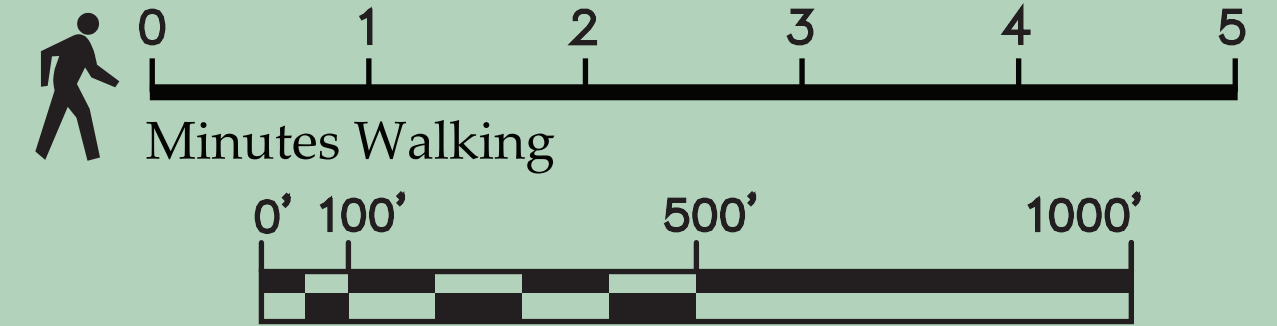
Location map

80% design - site plans and floor plans

March 2017 3D images



# CAMPUS MAP



As Amended, July 2016



- VISITOR PARKING
- UNH OWNED
- UNH LEASED
- NON-UNH



## GENERAL NOTES

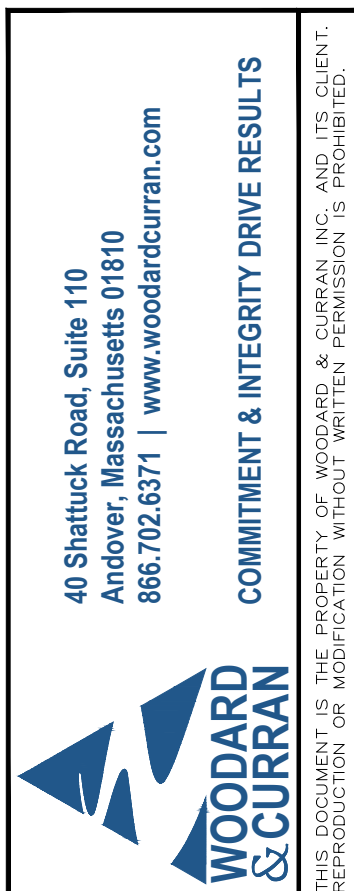
PROPOSED

\* THIS IS A GENERAL LEGEND AND NOT ALL ITEMS APPEAR ON THESE DRAWINGS

\* THESE ARE GENERAL ABBREVIATIONS.  
NOT ALL APPEAR ON THESE DRAWINGS.

TBM  
T&B  
THR'HOLD  
TOC  
TOF  
TYP  
VC  
VFD  
VERT.

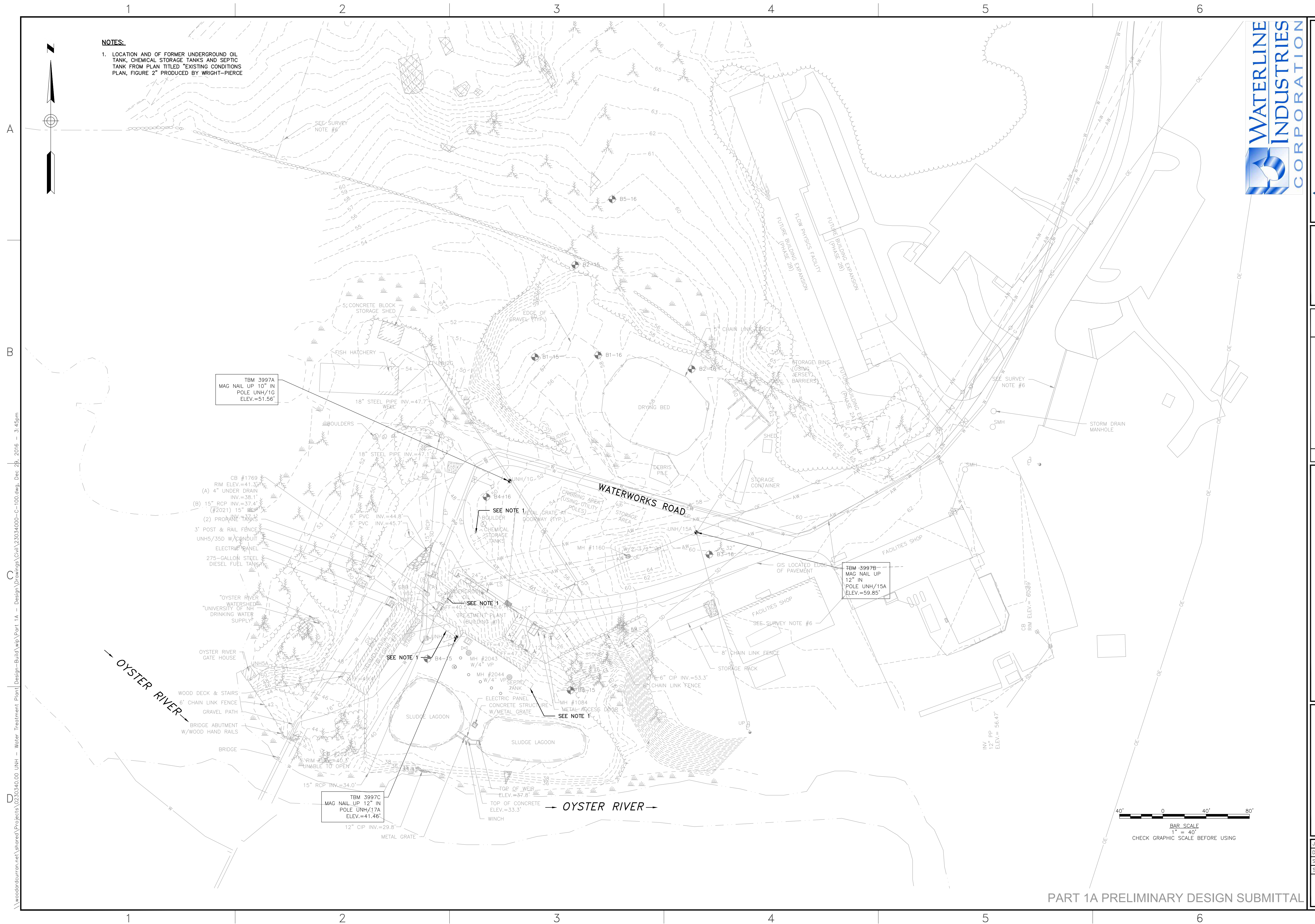
- UTILITIES IN THE AREA OF CONSTRUCTION ARE INDICATED IN APPROXIMATE LOCATIONS. CONTRACTOR SHALL DIG TEST PITS AS NEEDED TO VERIFY UTILITY AND PIPELINE LOCATIONS PRIOR TO CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE CONDITIONS RELATING TO THE CONSTRUCTION AND PERFORMANCE OF THE WORK AS SHOWN ON THE DRAWINGS. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE MATERIALS AND LABOR NECESSARY TO CARRY OUT THE PROVISIONS OF THE CONTRACT.
- IN SO FAR AS POSSIBLE, THE CONTRACTOR SHALL PERFORM ALL THE WORK OF THIS PROJECT IN A MANNER THAT DOES NOT INTERFERE WITH THE OPERATION OF OTHERS OR THE OWNER'S OPERATION OF THE FACILITIES ON SITE. COORDINATE WITH THE OWNER TO ENSURE THAT WORK OF THIS PROJECT DOES NOT INCUR UNANTICIPATED INTERFERENCES. ALL CONSTRUCTION PHASING AND OPERATIONS SHALL BE COORDINATED WITH THE CITY OF MARLBOROUGH WATER DEPARTMENT.
- SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. PERFORM ALL WORK IN ACCORDANCE WITH SAFETY STANDARDS OF APPLICABLE LAWS, BUILDING AND CONSTRUCTION CODES, THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA, THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND THE REQUIREMENTS OF TITLE 9 OF THE CODE OF FEDERAL REGULATIONS, PART 1926, "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION.
- THE CONTRACTOR SHALL SUPERVISE AND INSPECT THE WORK OF THIS PROJECT IN AN EFFICIENT AND COMPETENT MANNER. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCE AND PROCEDURES USED TO COMPLETE THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE WORK IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. A REPRESENTATIVE OF THE GENERAL CONTRACTOR SHALL BE PRESENT DURING ALL PHASES OF THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL PROPOSED WORK AS SHOWN ON THE DRAWINGS.
- THE CONTRACTOR SHALL DISPOSE OF ALL ITEMS SCHEDULED FOR REMOVAL THAT WILL NOT BE RETAINED BY THE OWNER. ALL ITEMS SHALL BE DISPOSED OF IN A LEGAL MANNER.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES OR CONFLICTS. ALL ON-SITE MODIFICATIONS REQUIRED DUE TO LACK OF DIMENSIONAL VERIFICATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE LOCATION, TYPE AND SIZE OF EXISTING PIPES, DUCTS, CONDUITS AND OTHER STRUCTURES SHOWN ON THE DRAWINGS ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL STRUCTURES ARE SHOWN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CUTTING AND PATCHING OF FLOORS AND WALLS DUE TO REWORK AND/OR SELECT DEMOLITION. ALL PATCHED OR REPAIRED SURFACES SHALL BE FINISHED TO MATCH EXISTING CONDITIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- ANY WALL, PARTITION OR SURFACE DISTURBED BECAUSE OF NEW WORK OR DEMOLITION SHALL BE PATCHED AND FINISHED CONFORMINGLY TO THE NEAREST CORNER UNLESS NOTED OTHERWISE. MATCH EXISTING ADJACENT CONSTRUCTION FINISHES, CONTINUITY AND FIRE RATINGS UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO PERFORM THE WORK AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE AND LOCAL LAWS.
- RESTORE ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS TO ORIGINAL CONDITION UNLESS NOTED OTHERWISE.
- ALL PROCESS EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS DIRECTED.
- ALL SMALL DIAMETER PIPING, AND EQUIPMENT AND ELECTRICAL AND CONTROL WIRING SHOWN SCHEMATICALLY ON THE DRAWINGS SHALL BE FIELD LOCATED AFTER APPROVAL BY THE ENGINEER. CONTRACTOR SHALL COORDINATE ACTUAL LOCATION WITH THE ENGINEER TO ENSURE NEAT PLACEMENT AND TO AVOID CONFLICTS.
- THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES WHICH HOLD WATER IN THE SYSTEM. THE OWNER WILL, WITH SUFFICIENT NOTICE FROM THE CONTRACTOR, OPEN AND/OR CLOSE ANY VALVE REQUIRED FOR DRAINING OR ADMITTING WATER TO VARIOUS SECTIONS OF THE WATER SYSTEM.
- COORDINATE CONSTRUCTION ACTIVITY WITH UTILITY COMPANIES, THE ENGINEER, AND THE CITY OF MARLBOROUGH.
- SUPPORT ALL PIPES AS DETAILED, SPECIFIED, OR REQUIRED, INCLUDING SMALL DIAMETER PIPE, TUBING AND CONDUIT.
- PIPING SHALL BE INSTALLED IN A MANNER TO PRESERVE AS MUCH WORKING SPACE AS POSSIBLE AROUND EQUIPMENT. UNLESS INDICATED OTHERWISE, INSTALL PIPING LEVEL TO THE FLOOR AND PARALLEL WITH WALLS AND EQUIPMENT.
- CONCRETE PUMP/EQUIPMENT PADS WILL BE PROVIDED IN THE SIZE AND LOCATION AS INDICATED ON THE DRAWINGS. MOUNT EQUIPMENT AS INDICATED AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ALL PIPE PENETRATIONS OF LIQUID CONTAINING STRUCTURES SHALL HAVE DOUBLE LINK-SEAL CONNECTION AS DETAILED, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT EQUIPMENT FLUIDS FROM REACHING ANY WATER COURSE. ANY INADVERTENT FLUID DISCHARGES SHALL BE IMMEDIATELY CLEANED FROM THE WATERS IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS AT THE CONTRACTOR'S EXPENSE. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY FLUID DISCHARGE REACHING ANY WATER COURSE.
- BRACING OF UTILITY POLES, WHERE REQUIRED, SHALL BE INCIDENTAL TO THE INSTALLATION OF THE WORK, NO SEPARATE PAYMENT SHALL BE MADE.
- CONTRACTOR SHALL NOTIFY ALL UTILITIES PRIOR TO COMMENCING WORK TO ALLOW SUFFICIENT TIME TO LOCATE AND MARK THE LOCATION OF ALL BURIED UTILITIES. CONTRACTOR SHALL ALSO CONTACT "DIG SAFE", TELEPHONE NO 888-344-7233, AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. A COPY OF DIGSAFE PROJECT REFERENCE NUMBERS SHALL BE GIVEN TO THE ENGINEER PRIOR TO EXCAVATION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGED UTILITY BY THE CONTRACTOR OR THEIR SUB-CONTRACTOR'S DURING CONSTRUCTION. THE REPAIR EXPENSE WILL BE INCIDENTAL TO THE CONTRACT.
- APPROVED JOINT RESTRAINTS METHODS SHALL BE PROVIDED FOR ALL WATER MAINS, VALVES, BENDS, TEE'S, PLUGS AND WYES.
- CONTRACTOR SHALL COMPACT TRENCHES IN 12-INCH LIFTS.
- THE BORINGS CAN NOT DEPICT THE SUBSURFACE CONDITIONS ACROSS THE ENTIRE PROJECT SITE. VARIATIONS IN SUBSURFACE CONDITIONS MAY OCCUR AND MAY NOT BECOME EVIDENT UNTIL CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN DETERMINATION AS TO THE LOCATION OF SUBSURFACE ROCK AND OTHER CONDITIONS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER IN WRITING OF ANY CONDITION OR OCCURRENCE THAT REPRESENTS A CHANGE IN PROJECT SCOPE. VERBAL NOTIFICATION IS REQUIRED PRIOR TO PROCEEDING WITH THE WORK OF THE PROJECT AND WRITTEN NOTIFICATION MUST BE RECEIVED WITHIN 30 DAYS OF THE VERBAL NOTIFICATION. REQUESTS FOR FEE ADJUSTMENTS WILL NOT BE CONSIDERED UNLESS PROPER NOTICE IS GIVEN.
- AS-BUILT DRAWINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL INCLUDE SWING THE LOCATIONS TO UNDERGROUND AND ABOVEGROUND UTILITIES INCLUDING ANY PIPE BENDS, TEES, VALVES, UNDERGROUND STRUCTURES, PULL BOXES, ETC. AND SHALL INCLUDE DEPTH OF COVER AND INVERT ELEVATIONS. AS-BUILTS SHALL INCLUDE LOCATIONS OF EXISTING UTILITIES WHICH ARE EXPOSED DURING CONSTRUCTION.
- THE MILLHAM WATER TREATMENT PLANT MAY BE SHUT DOWN FOR TWO SCHEDULED PERIODS DURING CONSTRUCTION AS DESCRIBED IN SECTION 01 11 00 OF THE SPECIFICATIONS TO COMPLETE PORTIONS OF THE WORK. DURING THE REMAINDER OF THE CONSTRUCTION PERIOD, EXCEPT FOR VERY SHORT DURATIONS, THE PLANT MUST REMAIN IN OPERATION. SHUT DOWNS SHALL BE COORDINATED WITH THE OWNER, ENGINEER, AND PLANT OPERATIONS STAFF. A MINIMUM OF ONE WEEK PRIOR TO THE REQUIRED SHUT DOWN. ALL SHUT DOWNS MUST BE APPROVED IN WRITING BY THE OWNER.
- ORIGINAL DESIGN DRAWINGS AND SHOP DRAWINGS OF THE MILLHAM WATER FACILITIES ARE AVAILABLE FOR REVIEW, BY APPOINTMENT ONLY, AT THE WATER TREATMENT PLANT, BETWEEN THE HOURS OF 9:00 A.M. AND 3:00 P.M., MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS. APPOINTMENTS FOR REVIEW MUST BE MADE 24 HOURS IN ADVANCE WITH THE PLANT MANAGER AT (508) 481-7639
- SOURCE OF BASE PLANS:  
CITY OF MARLBOROUGH, MASSACHUSETTS, MILLHAM WATER TREATMENT PLANT, METCALF & EDDY, INC. (1982)  
CITY OF MARLBOROUGH, MASSACHUSETTS, MILLHAM WATER TREATMENT PLANT UPGRADES, WOODARD & CURRAN, INC. (2005)  
CITY OF MARLBOROUGH, MASSACHUSETTS, EXISTING CONDITIONS PLAN, PREPARED BY DUNN MCKENZIE, INC., ON APRIL 23, 2014, REVISED JUNE 4, 2014.
- ALL ITEMS ON THE PLANS WITH LIGHT DESIGNATION INDICATE EXISTING ITEMS. ALL ITEMS WITH BOLD DESIGNATION INDICATE NEW WORK AS PART OF THIS CONTRACT.
- ELEVATIONS SHOWN ON DRAWINGS ARE BASED ON NGVD29, IN FEET.
- CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS TO THE PLANT.
- CONTRACTOR SHALL MAINTAIN SECURITY FOR THE PLANT AT ALL TIMES.
- HOLES IN CONCRETE WALLS, FLOORS, AND CEILINGS SHALL BE PATCHED FOLLOWING REMOVAL OF HANGERS AND SUPPORTS FOR PIPING AND EQUIPMENT.
- AT THE COMPLETION OF THE WORK AT THE PLANT, THE ENTIRE PLANT SHALL BE CLEARED TO REMOVE ALL CONSTRUCTION DEBRIS, DIRT, DUST, ETC.

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## CIVIL NOTES, LEGEND AND ABBREVIATIONS

UNIVERSITY OF NEW HAMPSHIRE DURHAM, NEW HAMPSHIRE	UNH WATER TREATMENT PLANT REPLACEMENT
JOB NO.: 230340.00	
DATE: DECEMBER, 2016	
SCALE: AS NOTED	
SHEET: 2 OF XXX	
C-001	





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[illegible]UNIVERSITY OF NEW HAMPSHIRE  
DURHAM, NEW HAMPSHIRE

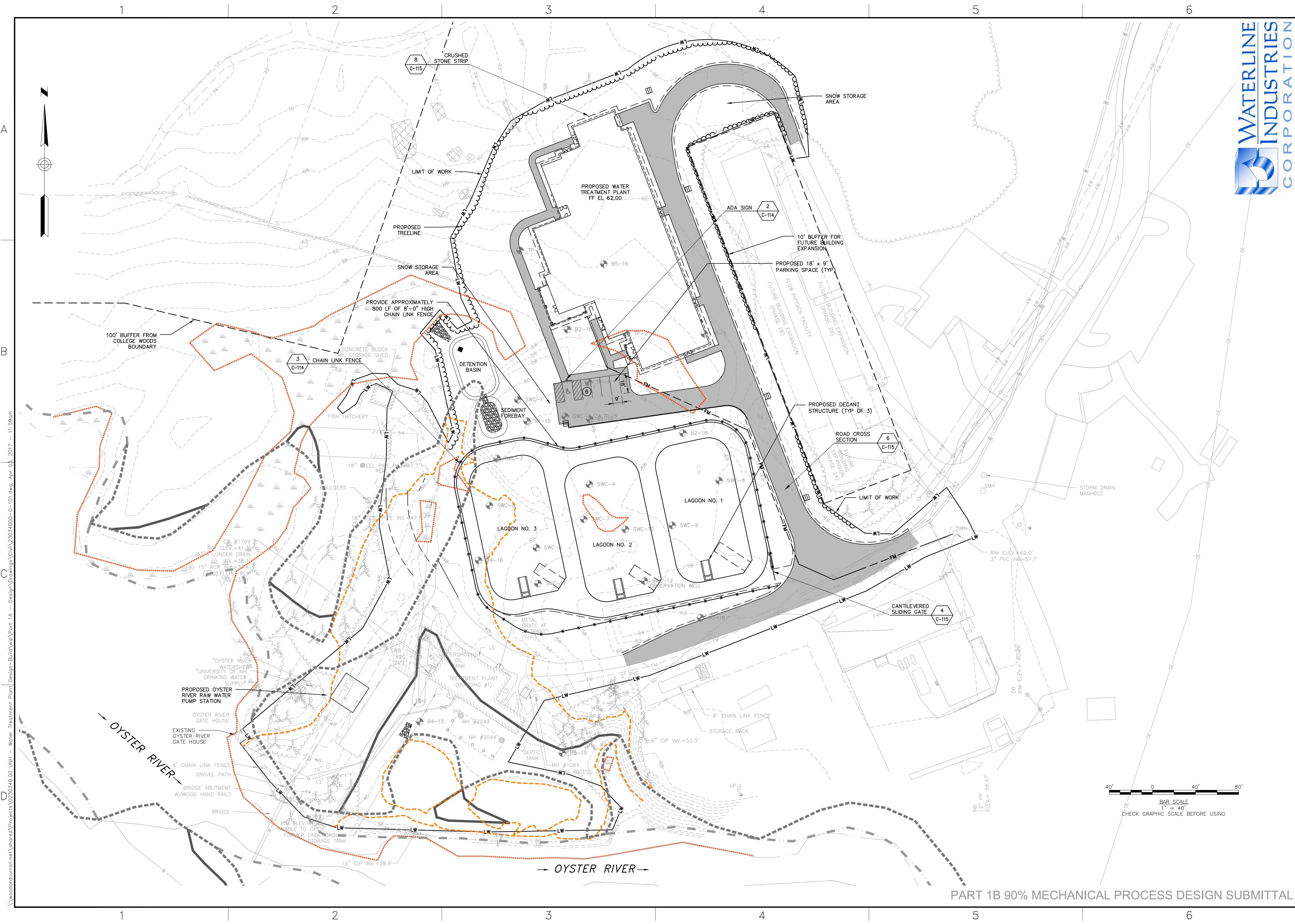
## WATER TREATMENT PLANT REPLACEMENT

NO.: 230340.00
DECEMBER, 2016
Scale: 1"=40'
Sheet: 3 OF XXX

-100

PART 1A PRELIMINARY DESIGN SUBMITTAL





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REV.	DESCRIPTION	DATE

DESIGNED BY: BWT	CHECKED BY: MCH
DRAWN BY: JDE	23034000-C-101.dwg

LAYOUT PLAN

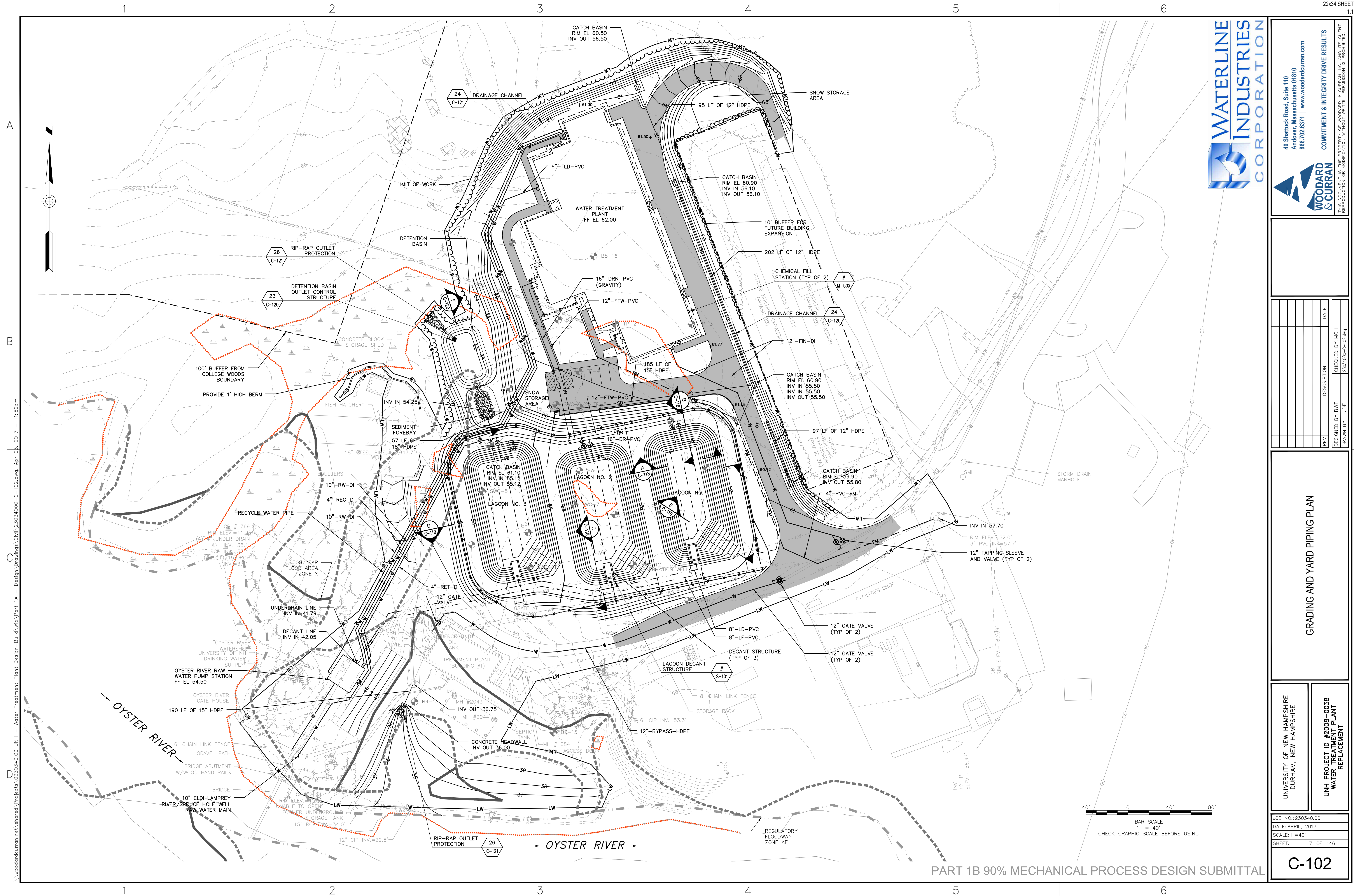
UNIVERSITY OF NEW HAMPSHIRE  
DURHAM, NEW HAMPSHIRE

UNH PROJECT ID #2208-0038  
WATER TREATMENT PLANT  
REPLACEMENT

JOB NO.: 230340.00  
DATE: APRIL, 2017  
SCALE: 1"=40'  
SHEET: 6 OF 146

**C-101**





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## GRADING AND YARD PIPING PLAN

UNIVERSITY OF NEW HAMPSHIRE  
DURHAM, NEW HAMPSHIREUNH PROJECT ID #2008-0038  
WATER TREATMENT PLANT  
REPLACEMENT

JOB NO.: 230340.00
DATE: APRIL, 2017
SCALE: 1"=40'
SHEET: 7 OF 146

C-102



DEMOLITION NOTES:

1. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND/OR APPROVALS FROM THE AGENCIES WITH JURISDICTION PRIOR TO BEGINNING WORK.
2. CONSTRUCTION/DEMOLITION DEBRIS NOT APPROVED FOR REUSE ON-SITE BY THE OWNER OR CONTRACT DOCUMENTS, SHALL BE REMOVED AND DISPOSED OFF SITE IN ACCORDANCE WITH THE LOCAL, STATE, AND FEDERAL REQUIREMENTS. WASTE MANIFEST FORMS DOCUMENTING PROPER OFF-SITE DISPOSAL SHALL BE PROVIDED TO THE OWNER.
3. VERIFY THE LOCATION OF EXISTING UTILITIES TO BE DEMOLISHED OR TO REMAIN PROTECTED DURING CONSTRUCTION. IMMEDIATELY NOTIFY THE OWNER OF ANY DISCREPANCIES FOUND BETWEEN THE EXISTING CONDITIONS SHOWN ON DRAWINGS AND FIELD CONDITIONS.
4. COORDINATE TEMPORARY SERVICE INTERRUPTIONS FOR EXISTING UTILITIES SCHEDULED TO FACILITATE THE WORK WITH THE OWNER. NOTIFY OWNER AT LEAST 3 WORKING DAYS PRIOR TO SCHEDULED INTERRUPTION. NOTIFY CUSTOMERS IMPACTED BY SERVICE INTERRUPTION AT LEAST 48 HOURS PRIOR TO SERVICE INTERRUPTION.
5. IN AREAS WHERE TREE REMOVAL IS REQUIRED, LIMIT REMOVAL TO THE MAXIMUM EXTENT POSSIBLE. TREE STUMPS SHALL BE EXCAVATED AND REMOVED AS NECESSARY TO COMPLETE WORK.



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REV.	DESCRIPTION	DATE

DESIGNED BY: BWT  
DRAWN BY: JDE  
CHECKED BY: MCH  
23034000-CD-100.dwg

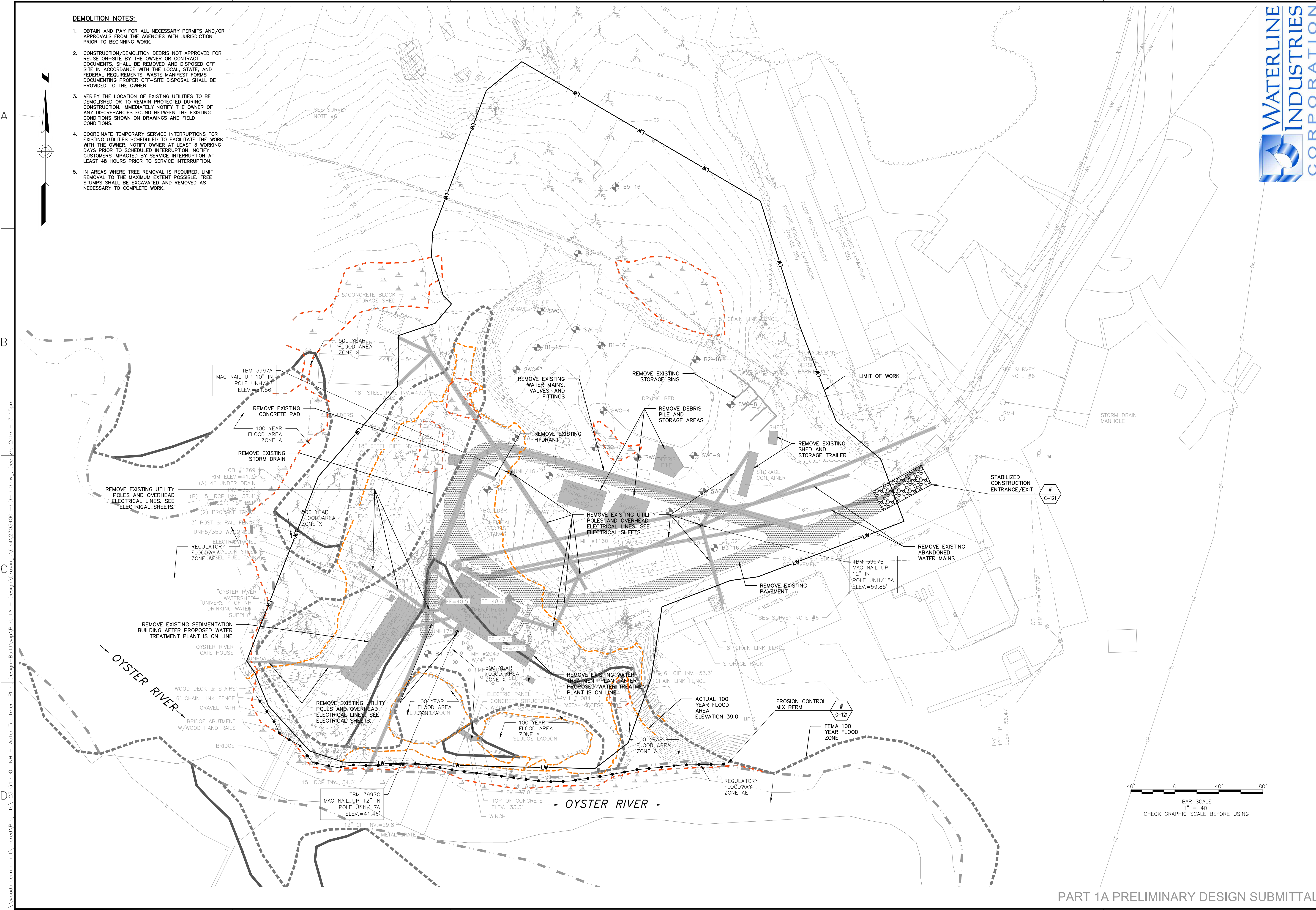
SITE DEMOLITION & EROSION CONTROL PLAN

UNIVERSITY OF NEW HAMPSHIRE  
DURHAM, NEW HAMPSHIRE

UNH  
WATER TREATMENT PLANT  
REPLACEMENT

JOB NO.: 230340.00  
DATE: DECEMBER, 2016  
SCALE: 1"=40'  
SHEET: 4 OF XXX

CD-100







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PIPE GALLERY PLAN @ EL 47.00

UNIVERSITY OF NEW HAMPSHIRE DURHAM, NEW HAMPSHIRE	UNH WATER TREATMENT PLANT REPLACEMENT
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JOB NO.:16621  
DATE:03-20-17  
SCALE: 1" = 10'-0"  
SHEET: OF  
**A001.1**

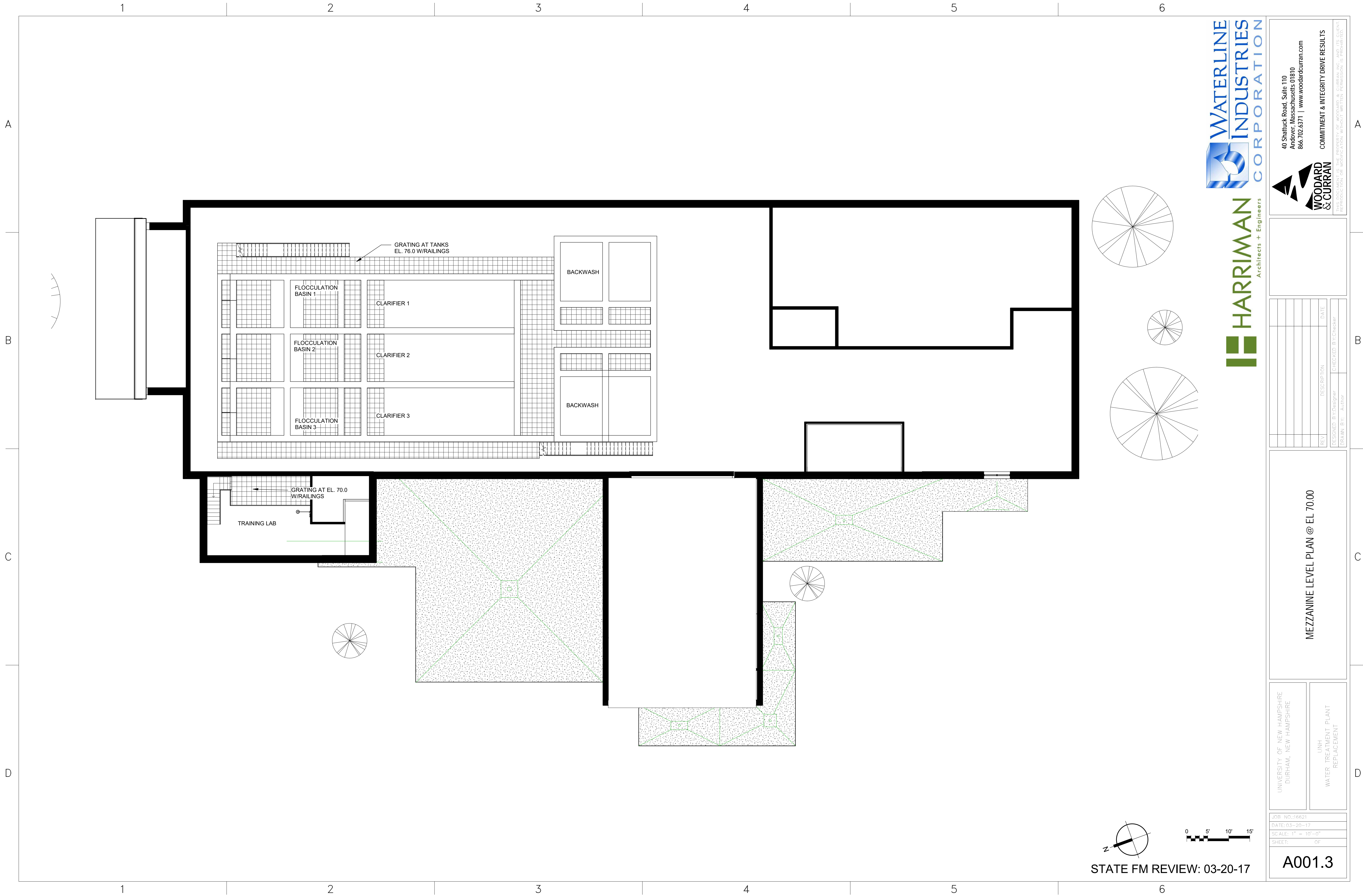


STATE FM REVIEW: 03-20-17









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REV.	DESCRIPTION	DATE

DESIGNED BY: Designer	CHECKED BY: Checker
DRAWN BY: Author	

UNIVERSITY OF NEW HAMPSHIRE DURHAM, NEW HAMPSHIRE	UNH WATER TREATMENT PLANT REPLACEMENT
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JOB NO.: 16621	
DATE: 03-20-17	
SCALE: 1" = 10' - 0"	
SHEET:	OF

A001.3





**HARRIMAN**  
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EXTERIOR VIEW

UNIVERSITY OF NEW HAMPSHIRE  
DURHAM, NEW HAMPSHIRE

JOB NO.:16621
DATE:03-20-17
SCALE:
SHEET: OF

A002

STATE FM REVIEW: 03-20-17



