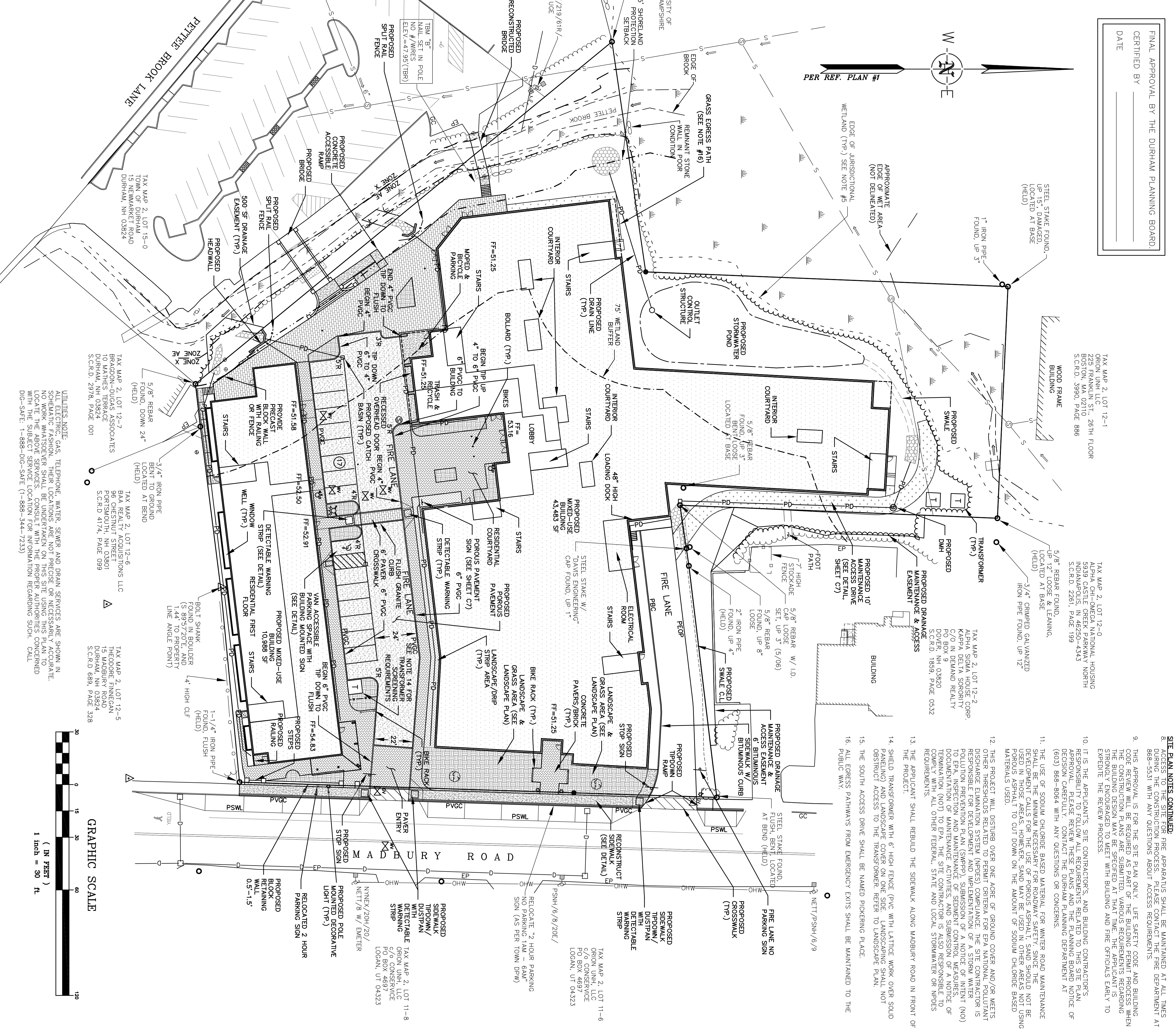


FINAL APPROVAL BY THE DURHAM PLANNING BOARD:
 CERTIFIED BY _____
 DATE _____

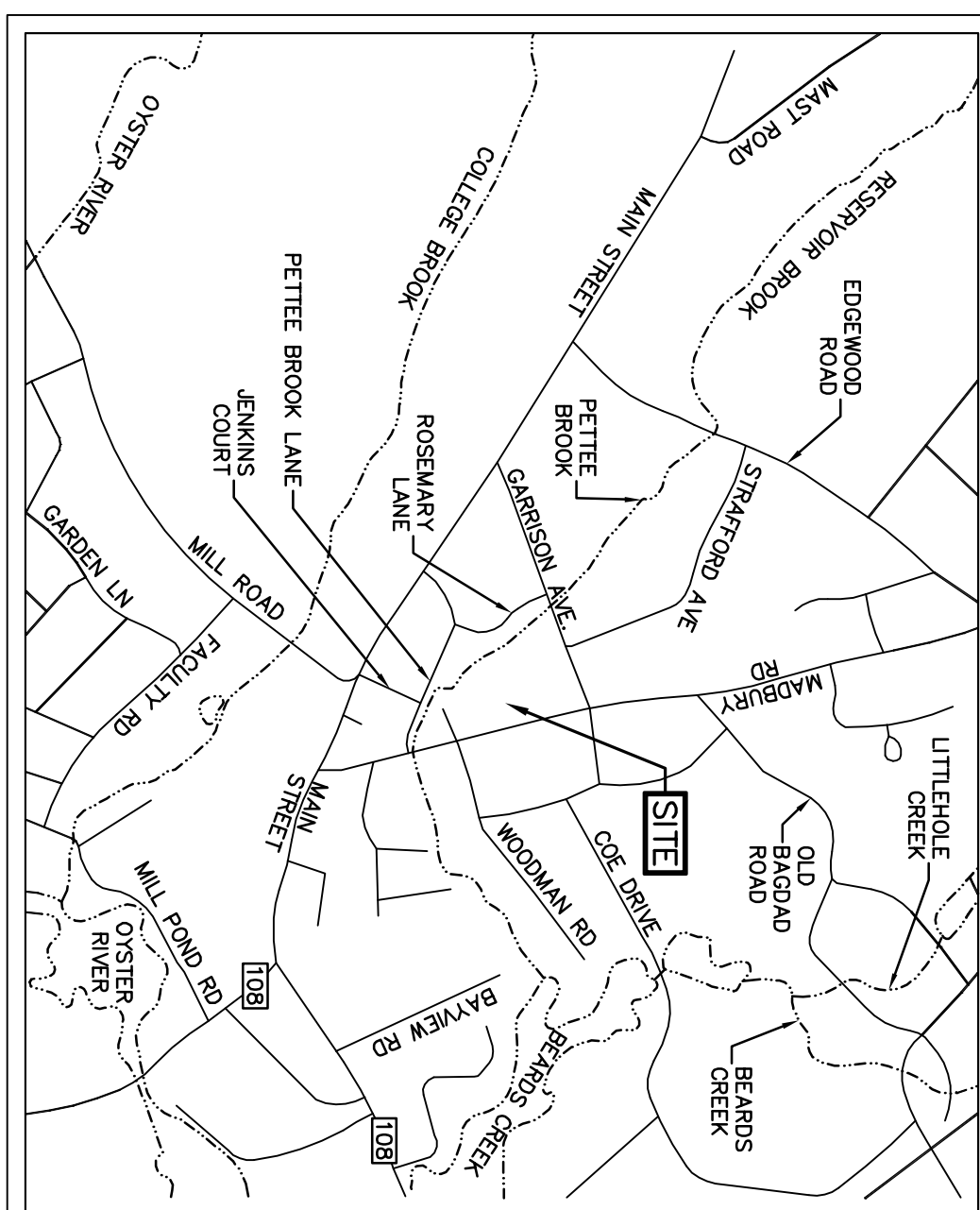
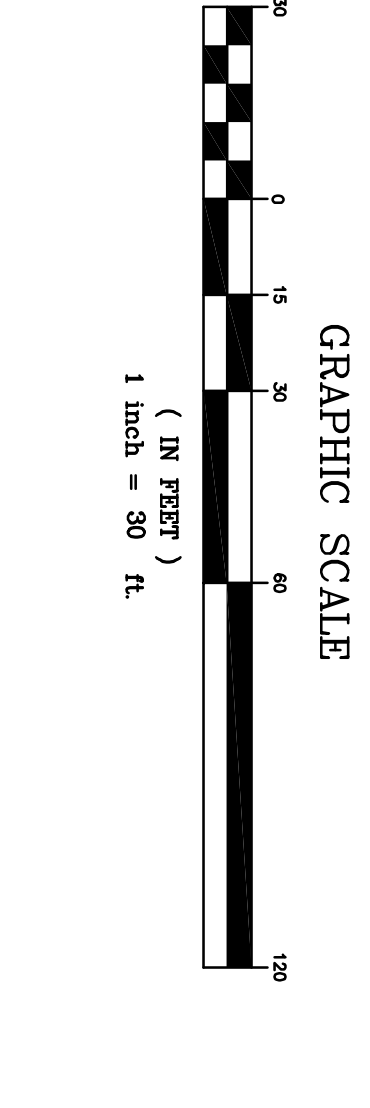
- LEGEND**
- UTILITY POLE & GUY WIRE
 - UTILITY POLE W/ ONE LIGHT
 - UTILITY POLE W/ TWO LIGHTS
 - SIGN
 - BOLT FOUND
 - DRILL HOLE FOUND
 - IRON PIPE/ROD OR RR SPIKE FOUND/SET AS NOTED
 - 5/8" RE-BAR W/ 10 GAPS OR RR SPIKE TO BE SET
 - METAL POST
 - WOODEN POST
 - SEWER MANHOLE
 - GAS VALVE
 - JURISDICTIONAL WETLAND SYMBOL
 - CONIFEROUS TREE
 - DECIDUOUS TREE
 - SHRUB
 - CONCRETE PAD
 - DUMPSTER
 - TYPICAL
 - RETAINING WALL
 - EDGE OF PAVEMENT
 - SINGLE WHITE LINE
 - SINGLE YELLOW LINE
 - DOUBLE YELLOW LINE
 - CONCRETE
 - EDGE OF GRAVEL
 - CHAINLINK FENCE
 - GRANITE CURB
 - OVERHEAD WIRES
 - TREE LINE
 - STONE WALL
 - APPROX. PROPERTY LINES
 - EDGE OF JURISDICTIONAL WETLAND (SEE NOTE #5)
 - APPROX. FLOOD ZONE LINE
 - 75' SHORELAND SETBACK
 - 25' SHORELAND SETBACK
 - FIRST FLOOR COMMERCIAL SPACE
 - PERMEABLE CONCRETE PAVEMENT BLOCKS
 - CONCRETE PAVEMENT BLOCKS
 - POROUS ASPHALT
 - POROUS LANDSCAPED AREA
 - PROPOSED VERTICAL GRANITE CURB
 - PROPOSED VERTICAL WHITE LINE
 - PROPOSED BRIMOUS CURB
 - PROPOSED EDGE OF PAVEMENT TO BE REMOVED
 - PROPOSED CATCH BASIN
 - PROPOSED SEWER MANHOLE
 - PROPOSED DRAIN MANHOLE
 - PROPOSED WATER GATE VALVE
 - PROPOSED HYDRANT
 - PROPOSED GAS VALVE

- SITE PLAN NOTES**
1. SOLID WASTE TEMPORARY STORAGE FACILITIES SHALL BE LOCATED INSIDE PROPOSED BUILDING. ALL AREAS OF TRASH STORAGE WILL BE KEPT IN AN OPERABLE FASHION. SOLID WASTE SHALL NOT BE LEFT OUTSIDE BUT FACILITY BE BROUGHT OUT AT TIME OF PICKUP AND RETURNED TO STORAGE.
 2. ALL LIGHTING SHALL BE DIRECTED AWAY FROM ADJACENT PROPERTIES. LIGHTING SHALL BE KEPT AT LEAST 10 FEET FROM PROPERTY LINES. LIGHTING SHALL COMPLY WITH MINIMUM BUILDING SAFETY CODES.
 3. ALL ROOF DRAINS SHALL BE PROPERLY MAINTAINED YEAR ROUND.
 4. THE GENERAL CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE SITE. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER. THE CONTRACTOR SHALL PROCEED WITH THE AFFECTED PART OF THE WORK. THIS INCLUDES DISCREPANCIES BETWEEN THESE PLANS AND ANY OTHER PLANS OR CONTRACT DOCUMENTS.
 5. SNOW SHALL BE REMOVED FROM THE SITE, AS REQUIRED, TO MAINTAIN ACCESS TO ALL UTILITIES AND TO MAINTAIN SAFE ACCESS AT ALL TIMES.
 6. ALL UTILITIES SERVING THE SITE SHALL BE UNDERGROUND.
 7. NO OUT TREES, STUMPS, BRANCHES, JUNK, RUBBISH, OR OTHER WASTE SHALL BE LEFT ON THE LAND AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN SAFE ACCESS AT ALL TIMES.

- UTILITIES NOTES**
- ALL ELECTRIC, GAS, TELEPHONE, WATER, SEWER AND DRAIN SERVICES ARE SHOWN IN SCHEMATIC FASHION. THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK SHALL BE UNDERTAKEN ON THESE UTILITIES WITHOUT THE CONCURRENCE OF THE DURHAM UTILITIES DEPARTMENT. THE CONTRACTOR SHALL VERIFY THE LOCATION OF UTILITIES WITH THE SUBJECT SERVICE LOCATION FOR INFORMATION REGARDING SUCH. CALL 603-SAFE (1-888-DIG-SAFE (1-888-344-7233))
- RESIDENTIAL DEVELOPMENT DENSITY**
- REQUIREMENTS: 113,442 S.F. = 126.0 DWELLING UNITS
 EXISTING LOT AREA = 113,442 SF (12-2 & 3)
 MAXIMUM RESIDENTIAL DWELLING UNITS ALLOWED: 900 SF / DU



- SITE PLAN NOTES CONTINUED**
8. ACCESS TO THE FIRE DEPARTMENT SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION PROCESS. PLEASE CONTACT THE FIRE DEPARTMENT AT 888-5537 WITH ANY QUESTIONS ABOUT ACCESS REQUIREMENTS.
 9. THIS APPROVAL IS FOR THE SITE PLAN ONLY. LIFE SAFETY CODE AND BUILDING CODE REQUIREMENTS WILL BE REQUIRED AS PART OF THE BUILDING PERMIT PROCESS WHEN THE BUILDING DESIGN MAY BE SPECIFIED AT THAT TIME. THE APPLICANT IS STRONGLY ENCOURAGED TO MEET WITH BUILDING AND FIRE OFFICIALS EARLY TO EXPEDITE THE REVIEW PROCESS.
 10. IT IS THE APPLICANT'S, SITE CONTRACTOR'S, AND BUILDING CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL REQUIREMENTS RELATED TO THIS SITE PLAN DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE DURHAM UTILITIES DEPARTMENT (603) 888-9084 WITH ANY QUESTIONS OR CONCERNS.
 11. THE USE OF SOFTENING AGENT MATERIAL FOR WINTER ROAD MAINTENANCE SHALL BE THE MINIMUM NECESSARY FOR ROADWAY SAFETY. SAND SHOULD NOT BE USED IN THESE AREAS, HOWEVER, SAND MAY BE USED IN OTHER AREAS NOT BEING USED FOR WINTER ROAD MAINTENANCE. SAND SHOULD BE STORED IN A CONTAINER TO PREVENT SPILLAGE AND TO COLLECT ON THE MARGIN OF SOFTENING AGENT MATERIALS USED.
 12. OTHER REQUIREMENTS RELATED TO PERMIT CRITERIA FOR EPA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) COMPLIANCE: THE SITE CONTRACTOR IS RESPONSIBLE FOR DEVELOPMENT AND IMPLEMENTATION OF A STORM WATER MANAGEMENT PLAN AND MAINTENANCE SCHEDULE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE DURHAM UTILITIES DEPARTMENT (603) 888-9084 WITH ANY QUESTIONS OR CONCERNS.
 13. THE APPLICANT SHALL REBUILD THE SIDEWALK ALONG MADBURY ROAD IN FRONT OF THE PROJECT.
 14. SHIELD TRANSFORMER WITH 6' HIGH FENCE (PVC WITH LATTICE WORK OVER SOLID PANELING) AND LANDSCAPE COVER ON ONE SIDE. LANDSCAPING SHALL NOT BE PLANTED UNTIL THE TRANSFORMER REFER TO LANDSCAPE PLAN.
 15. THE SOUTH ACCESS DRIVE SHALL BE MAINTAINED TO THE PUBLIC WAY.



- SITE DATA BLOCK**
- PLAN INTENT: LOT REDEVELOPMENT WITH TWO NEW MULTI-STORY MIXED USE BUILDINGS WITH RESIDENTIAL UNITS AND FIRST FLOOR COMMERCIAL.
- USE: COMMERCIAL & RESIDENTIAL
- DIMENSIONAL REQUIREMENTS**
- | MINIMUM LOT SIZE (SQUARE FEET) | REQUIRED |
|---|----------|
| 5,000 | 900 |
| MINIMUM LOT AREA PER DWELLING UNIT (S.F.) | 90 |
| MINIMUM FRONT SETBACK (FEET) | NONE |
| MINIMUM SIDE SETBACK (FEET) | NONE |
| MINIMUM REAR SETBACK (FEET) | NONE |
| MAXIMUM ROAD SETBACK (FEET) | 15 |
| MAXIMUM HEIGHT (FEET) | 30 |
| MAXIMUM LOT AREA PER DWELLING UNIT (S.F.) | 900 |
- RESIDENTIAL DEVELOPMENT DENSITY**
- REQUIREMENTS: 113,442 S.F. = 126.0 DWELLING UNITS
 EXISTING LOT AREA = 113,442 SF (12-2 & 3)
 MAXIMUM RESIDENTIAL DWELLING UNITS ALLOWED: 900 SF / DU
- PARKING REQUIREMENTS**
- | USE | RESIDENTIAL/AREA/SECTS. REQUIRED | PROVIDED (SEE NOTE 1) |
|-------------------------|---|-----------------------|
| RESIDENTIAL | 489 RES. 1 SPACE/RESIDENT | 0 SPACES |
| COMMERCIAL | 37,559 1 SPACE/400 SF | 10 SPACES |
| RESEARCH/TESTING | 3,174 1 SPACE/100 SF + | 7 SPACES |
| RESTAURANT | 10 EMPLOYEES 1 SPACE/EMPLOYEE = 42 SPACES | 7 SPACES |
| RETAIL/PERSONAL SERVICE | 2,882 1 SPACE/250 SF = 11 SPACES | 17 SPACES |
- GENERAL NOTES**
1. REFERENCE: TAX MAP 2, LOTS 12-3 & 12-4.
 2. TOTAL PARCEL AREA: LOT 12-3, 9,676 SF (0.222 AC.), LOT 12-4, 103,766 SF (2.382 AC.).
 3. OWNERS OF RECORD: TAX MAP 2, LOT 12-3, GPMADURY 17, LLC; LOT 12-4, PLEASANT ST. WESTPORT, VA 01886; S.C.R.D. BOOK 4084 PAGE 888.
 4. FIELD SURVEY PERFORMED BY DODGET SURVEY (G.C. & B.M.) ON 4/06 USING A LEICA 1105 TOTAL STATION & A SOKKIA B20 AUTO LEVEL, AND BY P.L.S. & L.P.S. DURING 12/12 USING A TRIMBLE 55 TOTAL STATION WITH A TRIMBLE 1533 DATA COLLECTOR. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
 5. JURISDICTIONAL WETLANDS DELINEATED BY GZA GEOTECHNOLOGICAL INC. DURING DECEMBER 2012 IN ACCORDANCE WITH 1997 CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT 1-97-11.
 6. FLOOD HAZARD ZONES: "X" (OUTSIDE THE 100 YEAR FLOOD ZONE) & "AE" (WITHIN 100 YEAR FLOOD ZONE) PER FIRM #303700380, DATED 5/7/05.
 7. HORIZONTAL DATUM BASED ON REFERENCE PLAN #2.
 8. VERTICAL DATUM BASED ON NAVD83 PER DISK UNITS ELEVATION = 76.72' (TO CONVERT TO NAVD83 ADD 0.125').
 9. THE PARCELS ARE SUBJECT TO AND/OR IN BENEFIT OF THE FOLLOWING EASEMENTS, RESTRICTIONS, ETC.:
 - a) BOOK 809 PAGE 319
 - b) SUBJECT TO A UTILITY EASEMENT IN FAVOR OF THE TOWN OF DURHAM, SEE S.C.R.D. BOOK 809 PAGE 319
 - c) TELEPHONE & TELEGRAPH COMPANY, SEE S.C.R.D. BOOK 809 PAGE 411
 - d) MECHANIC ARTS, SEE S.C.R.D. BOOK 367 PAGE 443
 - e) SUBJECT TO A PARKING EASEMENT IN FAVOR OF TAX MAP 2, LOT 12-2, SEE S.C.R.D. BOOK 1080 PAGE 318
 - f) SUBJECT TO A WIDE LANDSCAPING EASEMENT OVER TAX MAP 2, LOT 12-2, SEE S.C.R.D. BOOK 1080 PAGE 220
 - g) ACCORDING TO DEED 1080 PAGE 313, SHALL BE USED ONLY AS A PARKING LOT. IN ADDITION, IN BENEFIT OF A 20' WIDE SEWER EASEMENT OVER TAX MAP 2, LOT 15-0, SEE S.C.R.D. BOOK 359 PAGE 389.
 - h) SUBJECT TO AND IN BENEFIT OF SEWER AND WATER RIGHTS, SEE S.C.R.D. BOOK 371 PAGE 39
 - i) IN BENEFIT OF A 20' WIDE SEWER EASEMENT OVER TAX MAP 2, LOT 15-0, SEE S.C.R.D. BOOK 359 PAGE 389.
 10. EASEMENTS D, E, & F ARE BEING DISSOLVED AND NEW EASEMENTS WILL BE PREPARED FOR DRAINAGE AND GRADING ON MAP 2, LOT 12-2.
 11. FOR MORE INFORMATION ABOUT THIS SITE PLAN, OR TO SEE THE COMPLETE PLAN SET, CONTACT THE TOWN OF DURHAM PLANNING DEPARTMENT, 15 NEWMARKET ROAD, DURHAM, NH 03824. (603) 888-9084.
- REFERENCE PLANS:**
1. "EXISTING CONDITIONS PLAN OF 17 & 21 MADBURY ROAD FOR CONDO. COOPER. SERVICES, LLC. DURHAM, NEW HAMPSHIRE" PREPARED BY DODGET SURVEY, INC. AND DATED DECEMBER 12, 2012.
 2. "ALTA/ACSM LAND TITLE SURVEY FOR N.H. BETA ASSOC. OF SOGA ALPHA PETAION," 37 DODGET SURVEY, INC., DATED APRIL 30, 1999.
 3. "EXISTING CONDITIONS PLAN OF TAX MAP 2, LOTS 15-0 & 15-1 FOR THE TOWN OF DURHAM, PETTIE BROOK ROAD, DURHAM, NH PREPARED BY DODGET SURVEY, INC. AND DATED JANUARY 16, 2008.

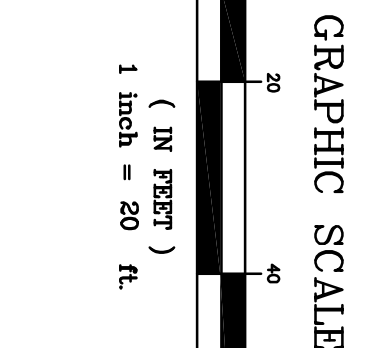
<p>MJS ENGINEERING, PC</p> <p>5 RAILROAD ST., P.O. BOX 359 NEW HAMPSHIRE, NH 03857 PHONE: (603) 659-4979, FAX: (603) 659-4627 E-MAIL: MJS@MJS-ENGINEERING.COM</p>	<p>PROPOSED SITE PLAN prepared for MADBURY COMMONS 17 & 21 MADBURY ROAD DURHAM, NH</p>	<p>DATE: 10/16/13 SCALE: 1"=30' DESIGNED BY: MJS DRAWN BY: MS APPROVED BY: MJS</p>	<p>SEAL</p>	<table border="1"> <thead> <tr> <th>NO.</th> <th>REVISIONS</th> <th>DATE</th> <th>INT.</th> </tr> </thead> <tbody> <tr> <td>9.</td> <td>REVISIONS PER 6/10/14 COA REVIEW MEETING WITH TOWN PLANNER</td> <td>6/11/14</td> <td>MS</td> </tr> <tr> <td>8.</td> <td>INITIAL SUBMISSION FOR COA REVIEW BY TOWN PLANNER</td> <td>5/28/14</td> <td>MS</td> </tr> <tr> <td>7.</td> <td>SEWER REVISIONS</td> <td>5/7/14</td> <td>MS</td> </tr> <tr> <td>6.</td> <td>SUBMISSION TO AOT BUREAU</td> <td>4/29/14</td> <td>MS</td> </tr> <tr> <td>5.</td> <td>REVISIONS PER TIGHE & BOND REVIEW LETTER DATED 1/21/14</td> <td>2/10/14</td> <td>MS</td> </tr> <tr> <td>4.</td> <td>ADDITIONAL REVISIONS PER COMMERCIAL OCCUPANCY REQUIREMENTS</td> <td>1/15/14</td> <td>MS</td> </tr> </tbody> </table>	NO.	REVISIONS	DATE	INT.	9.	REVISIONS PER 6/10/14 COA REVIEW MEETING WITH TOWN PLANNER	6/11/14	MS	8.	INITIAL SUBMISSION FOR COA REVIEW BY TOWN PLANNER	5/28/14	MS	7.	SEWER REVISIONS	5/7/14	MS	6.	SUBMISSION TO AOT BUREAU	4/29/14	MS	5.	REVISIONS PER TIGHE & BOND REVIEW LETTER DATED 1/21/14	2/10/14	MS	4.	ADDITIONAL REVISIONS PER COMMERCIAL OCCUPANCY REQUIREMENTS	1/15/14	MS
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<p>JOB: 13-007</p> <p>C1</p>	<p>DWG FILE: 13-007 C1K.dwg</p>																															

- SEALING & EROSION CONTROL NOTES:**
- CONTROL STRUCTURES SHALL REMAIN IN PLACE AND BE MAINTAINED. EROSION CONTROL MEASURES SHALL BE MONITORED BY THE OWNER AND SEDIMENTATION CONTROL MEASURES SHALL BE MONITORED BY THE OWNER AS SOON AS POSSIBLE. CONSTRUCTION AND ANY DEFICIENCIES SHALL BE CORRECTED AS SOON AS POSSIBLE.
 - ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION, AS PREPARED BY THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION.
 - ALL DISTURBED AREAS NOT PAVED OR OTHERWISE TREATED SHALL RECEIVE 4" OF LOAM, SPREAD UNIFORMLY OVER THE ENTIRE AREA. CONSTRUCTION MATERIALS MAY BE USED PER THE CONSTRUCTION SCHEDULING AND EROSION CONTROL NOTES ON SHEET C4.
 - COMPACTION REQUIREMENTS:
 - LOCATION: BEST PRACTICES
 - MINIMUM COMPACTION:
 - 95% SAND BLANKET BACKFILL
 - 90% BELOW LOAM AND SEED AREAS
 - FULL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM PROCTOR DENSITY, INCHES OR GREATER. DAMAGED EROSION CONTROL DEVICES SHALL BE REPAIRED/MODIFIED AS NECESSARY. LOAM STOCKPILES SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES.
 - EROSION CONTROL BARRIERS SHALL BE INSTALLED ON ALL SLOPES GREATER THAN 3:1. EROSION CONTROL BARRIERS SHALL BE PLUGGED WITH NONSHRINKING PORTLAND CEMENT GROUT APPROXIMATELY 18 INCHES IN LENGTH. THE CEMENT SHALL NOT BE ALLOWED TO ENTER OR CROSS THE BARRIERS.
 - ALL STORMWATER MANAGEMENT INFRASTRUCTURE SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH DESIGN STANDARDS OF THE DURHAM SITE PLAN BE OWNED BY THE PROPERTY OWNER AND IT SHALL BE OPERATED AND MAINTAINED BY THE PROPERTY OWNER TO PROTECT THE QUALITY OF ON-SITE AND OFF-SITE WATER RESOURCES.
 - ROOF DRAIN FROM THE SITE IN A ROOF GUTTER AND BUILDING EXTENDING TO THE NORTH CONTAINING THE LEADING DOCK DOES NOT NEED TO BE CAPTURED BECAUSE IT DRAINS TO THE STORMWATER POND.
 - INSTALLATION OF WATER WASTEWATER, STORMWATER MANAGEMENT, POROUS PAVEMENT, AND OTHER AUTHORIZED REPRESENTATIVES OF THE DURHAM DEPARTMENT OF PUBLIC WORKS. ALL ASSOCIATED INSPECTION/OBSERVATION COSTS.



SEWER STRUCTURE TABLE

SMH 1401	8" DIA. AT CENTER TROUGH=34.3'
SMH 1402	6" DIA. AT CENTER TROUGH=35.1'
SMH 1403	6" DIA. AT CENTER TROUGH=35.1'
SMH 1404	6" DIA. AT CENTER TROUGH=35.1'
SMH 1405	6" DIA. AT CENTER TROUGH=35.1'
SMH 1406	6" DIA. AT CENTER TROUGH=35.1'
SMH 1407	6" DIA. AT CENTER TROUGH=35.1'
SMH 1408	6" DIA. AT CENTER TROUGH=35.1'
SMH 1409	6" DIA. AT CENTER TROUGH=35.1'
SMH 1410	6" DIA. AT CENTER TROUGH=35.1'
SMH 1411	6" DIA. AT CENTER TROUGH=35.1'
SMH 1412	6" DIA. AT CENTER TROUGH=35.1'
SMH 1413	6" DIA. AT CENTER TROUGH=35.1'
SMH 1414	6" DIA. AT CENTER TROUGH=35.1'
SMH 1415	6" DIA. AT CENTER TROUGH=35.1'
SMH 1416	6" DIA. AT CENTER TROUGH=35.1'
SMH 1417	6" DIA. AT CENTER TROUGH=35.1'
SMH 1418	6" DIA. AT CENTER TROUGH=35.1'
SMH 1419	6" DIA. AT CENTER TROUGH=35.1'
SMH 1420	6" DIA. AT CENTER TROUGH=35.1'
SMH 1421	6" DIA. AT CENTER TROUGH=35.1'
SMH 1422	6" DIA. AT CENTER TROUGH=35.1'
SMH 1423	6" DIA. AT CENTER TROUGH=35.1'
SMH 1424	6" DIA. AT CENTER TROUGH=35.1'
SMH 1425	6" DIA. AT CENTER TROUGH=35.1'
SMH 1426	6" DIA. AT CENTER TROUGH=35.1'
SMH 1427	6" DIA. AT CENTER TROUGH=35.1'
SMH 1428	6" DIA. AT CENTER TROUGH=35.1'
SMH 1429	6" DIA. AT CENTER TROUGH=35.1'
SMH 1430	6" DIA. AT CENTER TROUGH=35.1'
SMH 1431	6" DIA. AT CENTER TROUGH=35.1'
SMH 1432	6" DIA. AT CENTER TROUGH=35.1'
SMH 1433	6" DIA. AT CENTER TROUGH=35.1'
SMH 1434	6" DIA. AT CENTER TROUGH=35.1'
SMH 1435	6" DIA. AT CENTER TROUGH=35.1'
SMH 1436	6" DIA. AT CENTER TROUGH=35.1'
SMH 1437	6" DIA. AT CENTER TROUGH=35.1'
SMH 1438	6" DIA. AT CENTER TROUGH=35.1'
SMH 1439	6" DIA. AT CENTER TROUGH=35.1'
SMH 1440	6" DIA. AT CENTER TROUGH=35.1'
SMH 1441	6" DIA. AT CENTER TROUGH=35.1'
SMH 1442	6" DIA. AT CENTER TROUGH=35.1'
SMH 1443	6" DIA. AT CENTER TROUGH=35.1'
SMH 1444	6" DIA. AT CENTER TROUGH=35.1'
SMH 1445	6" DIA. AT CENTER TROUGH=35.1'
SMH 1446	6" DIA. AT CENTER TROUGH=35.1'
SMH 1447	6" DIA. AT CENTER TROUGH=35.1'
SMH 1448	6" DIA. AT CENTER TROUGH=35.1'
SMH 1449	6" DIA. AT CENTER TROUGH=35.1'
SMH 1450	6" DIA. AT CENTER TROUGH=35.1'



FINAL APPROVAL BY THE DURHAM PLANNING BOARD.
 CERTIFIED BY _____
 DATE _____

MADBURY COMMONS

UTILITIES, GRADING, DRAINAGE & EROSION CONTROL PLAN

prepared for
MADBURY COMMONS
 17 & 21 MADBURY ROAD DURHAM, NH

MJS ENGINEERING, PC
 5 RAILROAD ST., P.O. BOX 359
 NEW HAMPSHIRE, NH 03857
 PHONE: (603) 659-4979, FAX: (603) 659-4627
 E-MAIL: MJS@MJS-ENGINEERING.COM

LEGEND

- PERMEABLE CONCRETE PAVEMENT BLOCKS
- CONCRETE PAVEMENT BLOCKS
- POROUS ASPHALT
- PROPOSED GAS LINE
- PROPOSED WATER LINE
- PROPOSED UNDERGROUND UTILITIES
- SILT SOCK
- PROPOSED FINISHED GRADE
- PROPOSED DRAINAGE
- PROPOSED SPOT GRADE

UTILITIES NOTE:
 ALL ELECTRIC, GAS, TELEPHONE, WATER, SEWER, AND OTHER UTILITIES SHALL BE LOCATED AND DEPTH SHALL BE ACCURATE. NO WORK WHATSOEVER SHALL BE DONE UNLESS THE ABOVE SERVICES ARE LOCATED WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATION FOR INFORMATION REGARDING (1-888-344-7233) (1-888-900-5946)

NO.	REVISIONS	DATE	INT.
8.	REVISIONS PER 6/10/14 COA REVIEW MEETING WITH TOWN PLANNER	6/11/14	MS
7.	REVISIONS PER NHDES WASTEWATER ENGINEERING BUREAU LETTER DATED 5/23/14	6/6/14	MS
6.	INITIAL SUBMISSION FOR COA REVIEW BY TOWN PLANNER	5/28/14	MS
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3.	REVISIONS PER TIGHE & BOND REVIEW LETTER DATED 1/21/14	2/10/14	MS

DATE: 10/16/13
SCALE: 1"=20'
DESIGNED BY: MJS
DRAWN BY: MS
APPROVED BY: MJS

SEAL

DWG FILE: 13-007_CIK.dwg

JOB: 13-007

C2

LANDSCAPE NOTES

- Design is based on drawings by MJS Engineering dated 1/15/2014 and may require adjustment due to actual field conditions.
- The contractor shall follow best management practices during construction and shall take all means necessary to stabilize and protect the site from erosion.
- Erosion Control shall be in place prior to construction.
- The Contractor shall verify layout and grades and inform the Landscape Architect or Client's Representative of any discrepancies or changes in layout and/or grade relationships prior to construction.
- It is the contractor's responsibility to verify drawings provided are to the correct scale prior to any bid, estimate or installation. A graphic scale bar has been provided on each sheet for this purpose. If it is determined that the scale of the drawing is incorrect, the landscape architect will provide a set of drawings at the correct scale, at the request of the contractor.
- Location, protection, and restoration of all existing utilities and appurtenances shall be the responsibility of the Contractor.
- The Contractor shall verify exact location and elevation of all utilities with the respective utility owners prior to construction. Call DIGSAFE at 1-888-344-7233.
- The Contractor shall procure any required permits prior to construction.
- Prior to any landscape construction activities Contractor shall test all existing lawn and lawn from off site intended to be used for lawn and plant beds using a thorough sampling throughout the supply. Soil testing shall indicate levels of pH, nitrate, macro and micro nutrients, texture, soluble salts, and organic matter. Contractor shall provide Landscape Architect with test results and recommendations from the testing facility along with soil amendment plans as necessary for the proposed plantings to thrive. All lawn to be used on site shall be amended as approved by the Landscape Architect prior to placement.
- Contractor shall notify landscape architect or owner's representative immediately if at any point during demolition or construction a site condition is discovered which may negatively impact the completed project. This includes, but is not limited to, unforeseen drainage problems, unknown subsurface conditions, and discrepancies between the plan and the site. If a contractor is aware of a potential issue, and does not bring it to the attention of the landscape architect or owner's representative immediately, they may be responsible for the labor and materials associated with correcting the problem.
- A qualified arborist or landscape architect shall be on site to oversee construction work around existing trees to be preserved and work shall be conducted in accordance with the arborist's or landscape architect's guidelines.
- The Contractor shall furnish and plant all plants shown on the drawings, and listed hereon. All plants shall be nursery-grown under climatic conditions similar to those in the locality of the project. Plants shall conform to the botanical names and standards of size, culture, and quality for the highest grades and standards as adopted by the American Association of Nurserymen, Inc. in the American Standard of Nursery Stock, American Standards Institute, Inc. 230 Southern Building, Washington, D.C. 20005.
- A complete list of plants, including a schedule of sizes, quantities, and other requirements is shown on the drawings. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.
- All plants shall be legibly tagged with proper botanical name.
- The Contractor shall guarantee all plants for not less than one year from time of acceptance.
- Owner or Owner's Representative will inspect plants upon delivery for conformity to Specification requirements. Such approval shall not affect the right of inspection and rejection during or after the progress of the work. The Owner reserves the right to inspect and/or select all trees at the place of growth and reserves the right to approve a representative sample of each type of shrub, herbaceous perennial, annual, and ground cover at the place of growth. Such sample will serve as a minimum standard for all plants of the same species used in this work.
- No substitutions of plants may be made without prior approval of the Owner or the Owner's Representative for any reason.
- Trees should be planted using commonly accepted best management practices, such as those listed in ANSI A300 Part 6: Tree Maintenance Standard Practices (Transplanting), which is available from the International Society of Landscape Architects.
- The contractor shall ensure that there is adequate rooting space and fill for the trees to be installed.
- Only low phosphorus/low release nitrogen fertilizers for landscaping materials may be used throughout the property.
- Upon completion, provide water and other tree care as appropriate during the first growing season (May through October).
- All landscaping shall be provided with either of the following:
 - An underground sprinkling system.
 - An outside hose attachment within 150 feet.
- If an automatic irrigation system is installed, all irrigation valve boxes shall be located within planting bed areas.
- All disturbed areas will be dressed with 6" of topsoil and planted as noted on the plans or seeded except plant beds. Plant beds shall be prepared to a depth of 12" with 75% loam and 25% compost.
- Trees, ground cover, and shrub beds shall be mulched to a depth of 3" with one-year-old, well-composted, shredded native bark not longer than 4" in length and 2" in width, free of woodchips and sawdust. One sloped ground, and brook banks, mulch shall be 4" deep. Mulch for ferns and herbaceous perennials shall be no longer than 1" in length. Trees in lawn areas shall be mulched in a 5' diameter min. saucer. Color of mulch shall be black.
- In no case shall mulch touch the stem of a plant nor shall mulch ever be more than 3" thick total (including previously applied mulch) over the root ball of any plant.
- Maintenance of Landscaping: The provision for maintenance of landscaping materials as specified in Section 175-124 - Maintenance Requirements of the Article XXI - Landscaping in the Durham Zoning Ordinance, shall apply.
- Secondary lateral branches of deciduous trees overhanging vehicular and pedestrian travel ways shall be pruned up to a height of 6' to allow clear and safe passage of vehicles and pedestrians under tree canopy.
- Snow shall be stored a minimum of 5' from shrubs and trunks of trees.
- Landscape Architect is not responsible for the means and methods of the contractor.

General Tree and Vegetation Protection

- Best management practices shall be followed for the protection of existing trees and vegetation that are planned to be preserved. Also, the provisions of Section 175-123 - Protection During Construction under Article XXI - Landscaping of the Durham Zoning Ordinance shall be followed.
- Arborist: All existing trees on the property shall be inspected by a certified arborist after construction. Remedial tree care shall be applied as needed to mitigate any damage caused by construction (pruning of broken branches or exposed roots, mulching, wounds addressed, etc.).
- Temporary Fencing: Contractor shall install temporary fencing around the tree protection zones designated on the engineering plans, or where directed by the engineer, to protect remaining vegetation from construction damage. Maintain temporary fence and remove when construction is complete. Temporary fence shall be at least 1.2m (4 feet) in height shall be installed around each tree to be protected and preserved. Tree protection shall be installed prior to the actual start of construction and maintained for the duration of the project. To the extent feasible, trees and shrubs to be preserved shall be protected at or along the critical root zone by fencing sufficiently substantial to make clear the intent to protect them. (The critical root zone is a circle with radius equal to 1.5 feet per 1 inch of trunk diameter. If more than 40% of that critical root zone will be disturbed, the tree may be damaged beyond recovery.)
- Root Zone Protection: During the entire construction period all reasonable efforts shall be made to protect from damage those trees and their root system designated to remain. Around the trees to be protected, the Contractor shall avoid excavation or compaction. All plant material designated to be saved, shall be protected during construction. Protect tree root systems from damage caused by runoff or spillage of noxious materials while mixing, placing, or storing construction materials. Protect root systems from ponding, eroding, or excessive wetting caused by dewatering operations. Do not store construction materials, debris, or excavated material inside tree protection zones. Do not permit vehicles or foot traffic within tree protection zones; prevent soil compaction over root systems.
- Fence: At a minimum, the protective barrier shall be constructed of orange snow fencing securely fastened to fence posts spaced a maximum of 1.5 m (5 feet) on center. Posts are 1.8m (6 feet) in length with 60 cm (2 feet) set into the ground and 1.2m (4 feet) extending above ground. The fencing shall be attached to the post with a minimum of four (4) nylon-locking ties evenly placed at each post.
- Severing Roots: Where roots of existing trees will be disturbed, sever roots cleanly by hand or with a rock saw, rather than using heavy equipment, to minimize tree root system damage.
- Mulching During Construction: Prior to construction, apply 3-4 inches of bark mulch or wood chips to cover the root system that is enclosed within the temporary fencing. Maintain this mulch until construction is completed.
- Compacted Soils: Care shall be taken to avoid passes by heavy equipment near planted areas and trees to be preserved, especially when the soil is wet. (Compacted soils have less open pore space, and hence less space for moisture and oxygen needed to sustain tree health. Even one pass with heavy equipment can cause soil compaction.)
- In the event that any trees to be preserved are damaged or destroyed the applicant shall notify the Durham Department of Public Works who may stipulate remediation, as appropriate.

Tree Protection and Preparation for Construction of Major Trees to Remain

- All above requirements apply to the Major trees to remain.
- Major trees to remain shall be inspected by a certified arborist prior to construction.
- A certified Arborist shall prune canopies and roots to be impacted by adjacent construction at his discretion. Water and Fertilize as needed following root pruning operations. All pruning shall be done according to the National Arborist Association's Pruning Standards for Shade Trees (Class 11 - Standard Pruning Specifications).
- Do not excavate within tree protection zones, unless otherwise indicated. Where excavation for new construction is required within drip line of trees, contractor shall work with a certified arborist, using an air spade to expose the roots of the tree, before any excavation is undertaken. Expose roots, relocate roots in backfill areas where possible. If encountering large, main lateral roots, expose roots beyond excavation limits as required to bend and relocate them without breaking. If encountered immediately adjacent to location of new construction and relocation is not practical; cut roots approximately 3 inches (75 mm) back from new construction. Do not cut main lateral roots; cut only smaller roots that interfere with installation of utilities or construction. Cut roots with sharp pruning instruments; do not break or chop.
- Do not allow exposed roots to dry out before placing permanent backfill. Provide temporary earth cover or pack with peat moss and wrap with burlap. Water and maintain in a moist condition. Temporarily support and protect roots.
- If feasible, conduct construction near existing trees during the winter or dormant season, when stress to trees will be less.

Plant List

TREES

Symbol	Botanical Name	Common Name	Quantity	Size	Comments
As	<i>Acer saccharum</i> 'Green Mountain'	Green Mountain Sugar Maple	1	6" Cal	B&B
Bn	<i>Betula nigra</i> 'Heritage'	Heritage River Birch	11	10-12" Ht	B&B Multi Stem
Gt	<i>Gleditsia triacanthos inermis</i> 'Halka'	Halka Thornless Honeylocust	1	6" Cal	B&B
Mal	<i>Malus sargentii</i> 'Tina'	Tina Crab	3	2-2.5' Cal	B&B
Pc	<i>Pyrus calleryana</i> 'Chanticleer'	Chanticleer Flowering Pear	4	4" Cal	B&B
Tt	<i>Tilia tomentosa</i> 'Sterling'	Sterling Silver Linden	3	7" Cal	B&B

SHRUBS

Symbol	Botanical Name	Common Name	Quantity	Size	Comments
Box	<i>Buxus</i> 'Green Gem'	Green Gem Boxwood	65	2-3' Ht.	Full
Cle	<i>Clethra alnifolia</i>	Summersweet	5	7 gal	Full
Cle2	<i>Clethra alnifolia</i> 'Hummingbird'	Compact Summersweet	13	5 gal	
Hs	<i>Hibiscus syriacus</i> 'Ardens'	Ardens Rose-of-Sharon	2	7-8" Ht	B&B Full
Hy2	<i>Hydrangea arborescens</i> 'Annabelle'	Annabelle Hydrangea	3	5 gal	
HyQ	<i>Hydrangea quercifolia</i> 'Sikes Dwarf'	Sike's Dwarf Hydrangea	10	5 gal	
Ig	<i>Ilex glabra</i> 'Shamrock'	Shamrock Inkberry	21	3 gal	Full to ground
Iv	<i>Ilex meservei</i> 'Blue Maid'	Blue Maid Holly	1	5-6" Ht	B&B Full
Iv	<i>Ilex verticillata</i> 'Winter Red'	Winter Red Winterberry	6	7 gal	
Ros	<i>Rosa</i> 'Double Knockout'	Knockout Rose	24	3 gal	

PERENNIALS, GROUNDCOVERS, VINES and ANNUALS

Symbol	Botanical Name	Common Name	Quantity	Size
Aj	<i>Ajuga reptans</i> 'Burgundy Glow'	Burgundy Glow Ajuga	56	1 qt
Am	<i>Anemone hubrichtii</i>	Blue Star Flower	31	1 gal
An	<i>Anemone 'Honore Jobert'</i>	Windflower	57	1 gal
Cor	<i>Coreopsis 'Crème Brûlée'</i>	Crème Brûlée Tickseed	14	1 gal
Day	<i>Hemerocallis 'Big Time Happy'</i>	Big Time Happy Daylily	30	1 gal
Ger	<i>Geranium macrorrhizum</i> 'Bevan's Variety'	Geranium	72	1 gal
Hos	<i>Hosta sieboldiana</i> 'Elegans'	Elegans Hosta	30	1 gal
Nep	<i>Nepeta faassenii</i> 'Walker's Low'	Walker's Low Catmint	6	1 gal
Pen	<i>Pennisetum alopecuroides</i> 'Hameln'	Hameln Dwarf Fountain Grass	18	1 gal
Vm	<i>Vinca minor</i>	Periwinkle	37	50/flat

Seed Mixes:

Seed Mix A 100% New England Wetland Plants - New England Conservation/Wildlife Mix

Lawn Tall fescue bluegrass mix, such as Pennington Smartseed Tall Fescue Bluegrass Mix - or Approved equal

Application Rates:

Seed Mix A 30lbs/acre New England Conservation/Wildlife Mix

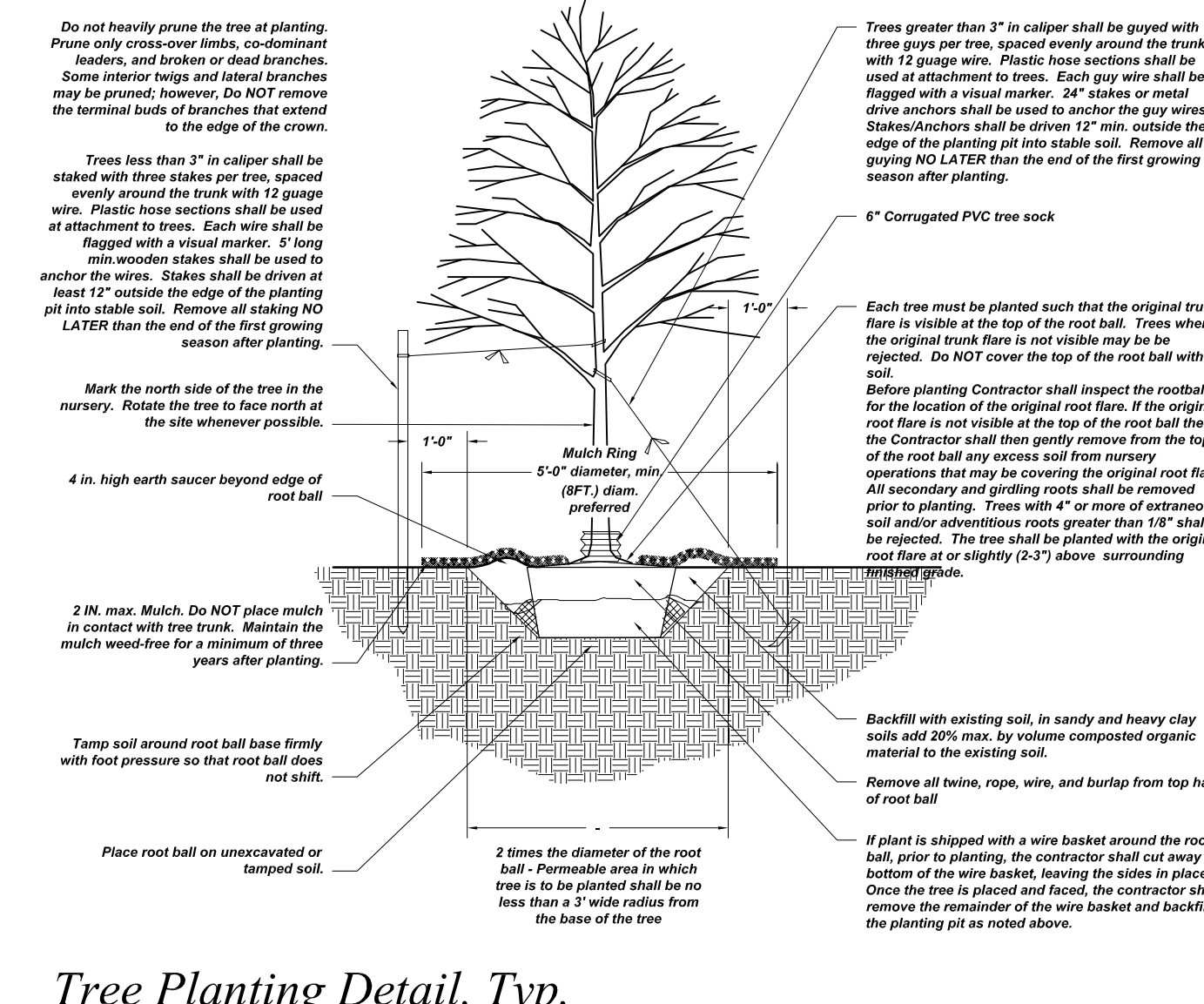
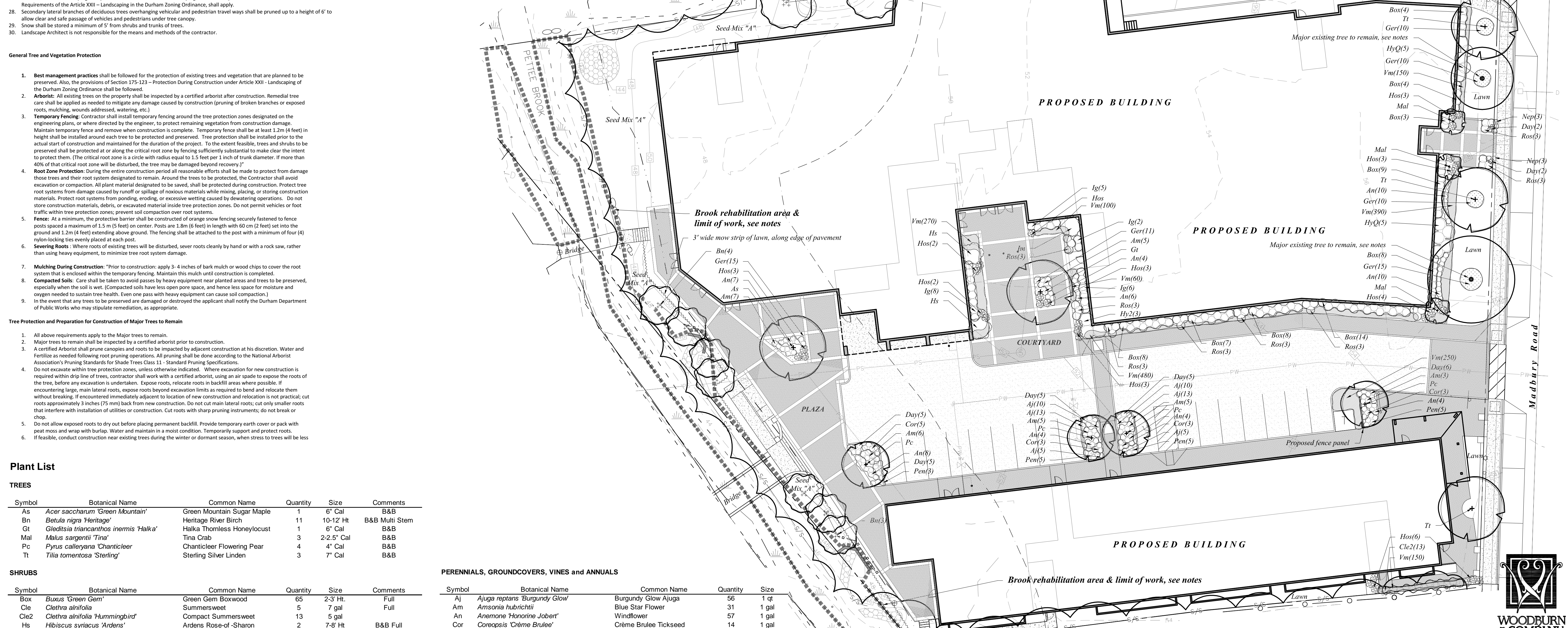
Lawn As recommended by seed provider

Brook Rehabilitation

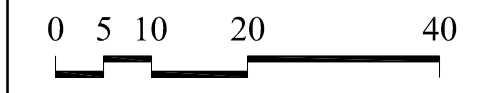
- A pre-construction meeting with all parties involved in brook rehabilitation work to assign responsibilities shall take place prior to any removals. A Wetland Scientist, Landscape Architect or other qualified professional (QP) will oversee the enhancement work.
- QP to flag all trees and shrubs to be saved.
- Contractor shall erect silt fence or silt sock along boundary of existing wetland or edge of buffer disturbance.
- Contractor shall complete temporary stabilization practices in the vicinity of Pettee Brook as shown on approved site plans. Plantings should be completed after the proposed riprap swales are installed to avoid damage to plantings.
- Contractor shall erect protective fencing outside of the brook bank on the 17-21 Madbury property to keep construction equipment from this area and protect root systems.
- Contractor shall manually remove loose debris and trash from the entire site, and properly dispose of material.
- Contractor shall remove select dead trees as flagged by Landscape Architect.
- Contractor shall work with a Certified Arborist to prune the existing trees to remain in this area to raise the canopy for enhanced views into the site from Pettee Brook.
- Contractor shall identify and remove all invasive plant materials in a manner appropriate to the specific invasive plant. Under no circumstances shall the following plants be pulled from the ground: Bittersweet, Japanese Knotweed.
- For those invasive plants appropriate for manual removal the contractor shall carefully excavate smaller stumps, roots and vines using hand tools as needed, while preserving and protecting the root mass of the native trees and shrubs. Larger stumps that are not possible to excavate by hand shall be left, but treated with an appropriate herbicide to kill the plant and prevent resprouting.
- The contractor shall store, remove and dispose of all parts of invasive species from the site, using commonly accepted practices, so that those plants do not spread via roots, fruit or any other part.
- Contractor shall add clean lawn as needed.
- Contractor shall plant native trees and shrubs and groundcovers listed in the Brook Rehabilitation Plant List, as directed by landscape architect.
- Plantings shall be installed by hand, with a shovel or auger.
- Install weed free straw mulch in all wetland areas, and 2" bark mulch in upland areas.
- Contractor shall prepare buffer enhancement completion report with photographs.

PETTEE BROOK REHABILITATION

SHRUBS	Botanical Name	Common Name	Quantity	Size	Comments
	<i>Amelanchier canadensis</i> 'Glenform'	Glenform Shadblow Serviceberry	6	5-6" Ht	B&B Multi Stem
	<i>Azalea viscosum</i>	Swamp Azalea	12	3-4"	B&B
	<i>Ilex verticillata</i> 'Red Sprite'	Red Sprite Winterberry	20	5 gal	
	<i>Ilex verticillata</i> 'Southern Gentleman'	Southern Gentleman Winterberry	2	5 gal	
	<i>Rhododendron canadense</i>	Rhodora	25	5 gal	
	<i>Vaccinium angustifolium</i>	Lowbush Blueberry	200	1 gal	
	<i>Carex lurida</i>	Lund sedge	50	1 gal	
	<i>Dennstaedtia punctilobis</i>	Hyscenter Fern	150	1 gal	
	<i>Lobelia cardinalis</i>	Cardinal Flower	70	1 gal	
	<i>Mitella struthifera</i>	Ostrich Ferns	200	1 gal	
	<i>Osmunda cinnamomea</i>	Cinnamon Fern	100	1 gal	



FINAL APPROVAL BY THE DURHAM PLANNING BOARD.
 CERTIFIED BY _____
 DATE _____



WOODBURN & COMPANY
 Landscape Architecture, LLC
 103 Kent Place
 Newmarket, NH 03857
 Tel 603.659.5949
 Fax: 603.659.5939

MJS ENGINEERING, PC
 CIVIL ENVIRONMENTAL CONSULTING ENGINEERING
 9 RALPHAWAY ST., P.O. BOX 259
 PHONE: (603) 659-4297 FAX: (603) 659-4627
 E-MAIL: MJS@MJSENGINEERING.COM

PROPOSED LANDSCAPE PLAN
 prepared for
MADBURY COMMONS
 17 & 21 MADBURY ROAD DURHAM, NH

REVISIONS

NO.	REVISIONS	DATE	INT.
4	Revisions per town planner	5.11.14	
3	Revisions per site plan changes	5.7.14	
2	Par. T&B Design Review #1	2.10.14	
1	Planting plan	1.15.14	

DATE: 11/27/13
 SCALE: 1"=20'
 DESIGNED BY: RW
 DRAWN BY: VB
 APPROVED BY: VB
 DWG FILE:

JOB: 13-007

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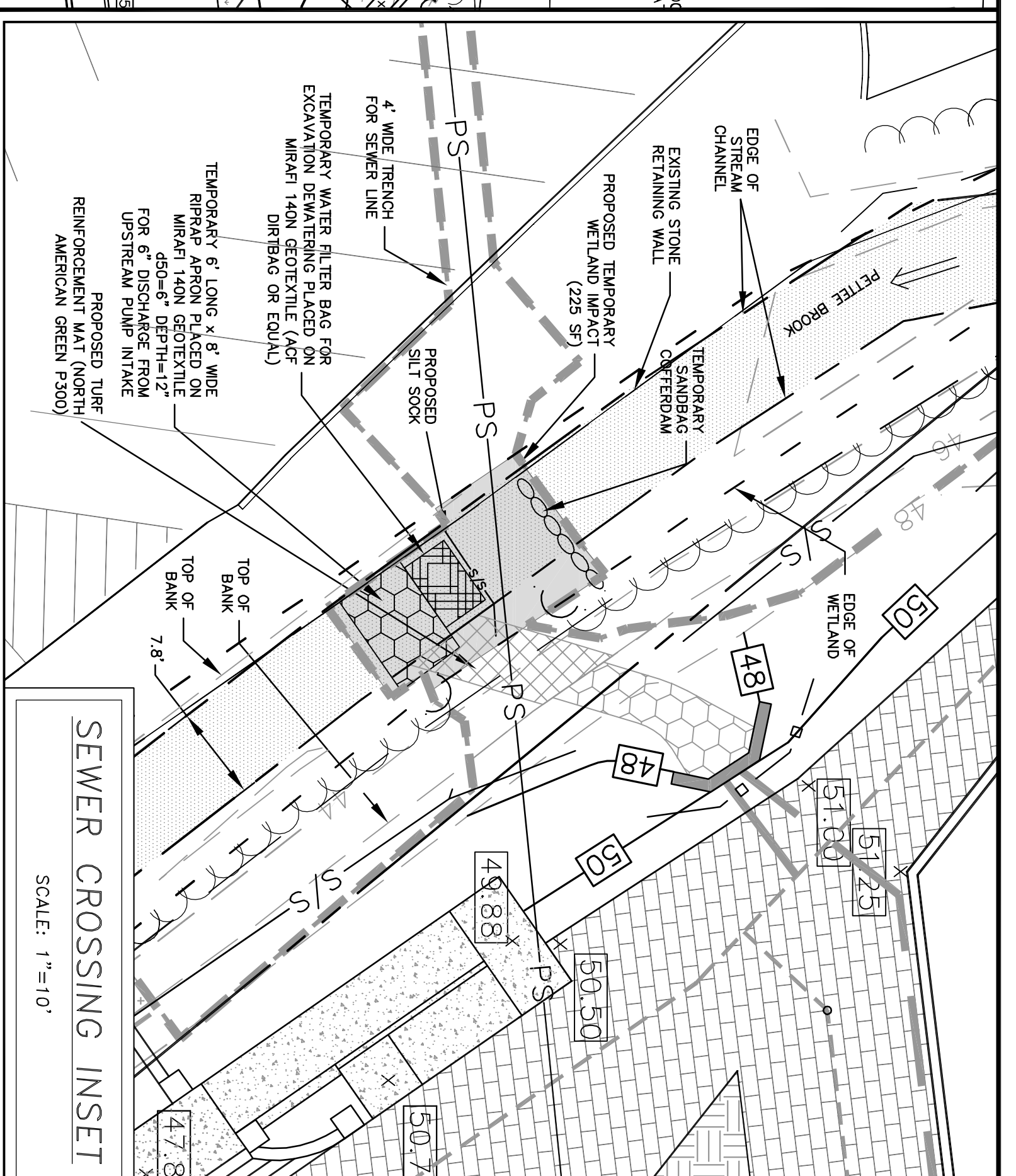
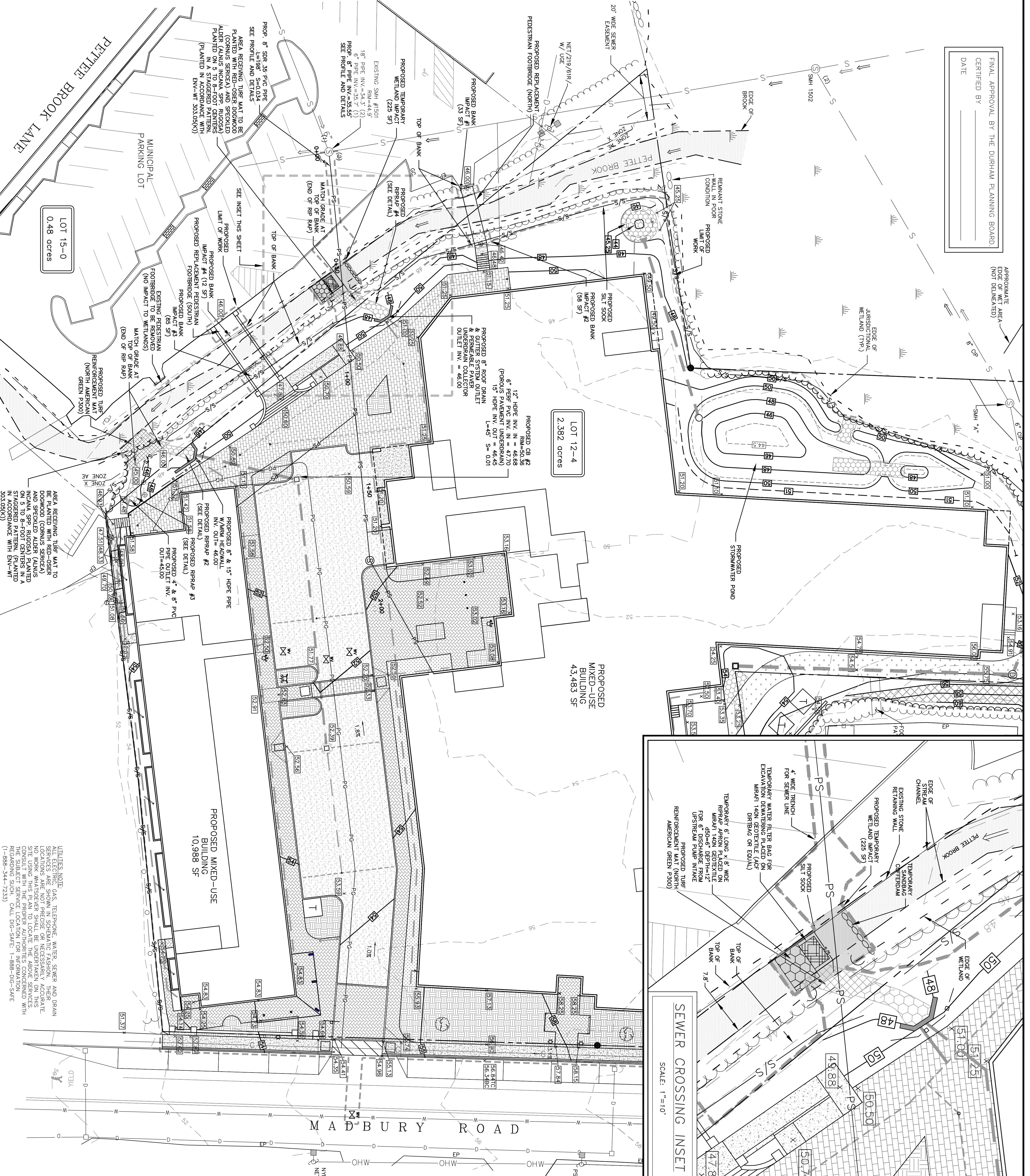
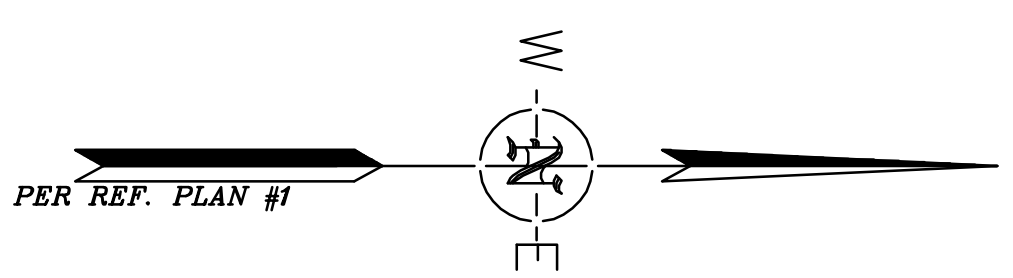
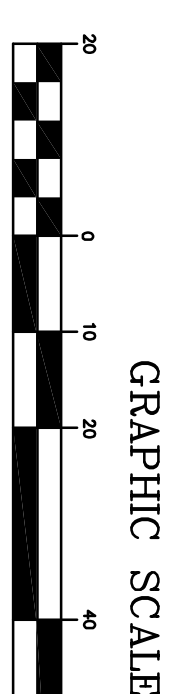
- CONSTRUCTION SEQUENCING & STREAM DISERSION NOTES:
1. THIS WORK TO BE COMPLETED IN CONJUNCTION WITH SITE WORK FOR REDUCTION OF TAX MAP 2, LOTS 12-3 & 12-4, A QUARTED PROFESSIONAL PETTEE BROOK.
 2. INSTALL ALL TEMPORARY EROSION CONTROL MEASURES PER THE PLAN AND SHEETS C-4-C10.
 3. ALL WORK SHALL BE COMPLETED DURING LOW FLOW CONDITIONS DURING LATE SUMMER. CARE MUST BE TAKEN TO MINIMIZE EROSION AND MOVEMENT OF SEDIMENT DUE TO DISBURGANCE OF STREAM BANKS AND BOTTOM SUBSTRATE.
 4. REMOVE PAYMENT TO THE LIMITS SHOWN ON THE PLAN. PROGRESS INSET THIS SHEET'S C-4-C10.
 5. REMOVE PAYMENT TO THE LIMITS SHOWN ON THE PLAN. PROGRESS INSET THIS SHEET'S C-4-C10.
 6. WORK WILL REQUIRE CONSTRUCTING A 20 INCH HIGH TEMPORARY SANDBAG COFFERDAM UPSTREAM OF THE SEWER TRENCH. SANDBAGS SHALL CONSIST OF MATERIALS WHICH ARE RESISTANT TO ULTRAVIOLET RADIATION, TEARING AND PENETRATION BY RODENTS. SANDBAGS TO PREVENT LEAKAGE OF FILL MATERIAL (I.E. SAND, FINE GRAVEL, ETC.) SHOULD BE PLACED IN A STAGGERED PATTERN (PLANTED IN ACCORDANCE WITH ENV-WT 303.09(K)).
 7. CONSTRUCT TEMPORARY RIPRAP APRON PLACED ON NONWOVEN GEOTEXTILE (MINI 140N OR EQUAL) FOR FLOW DISCHARGE PLACED TEMPORARY WATER OR EQUAL) FOR EXCAVATION DEWATERING. MINIMIZE DISTURBANCE TO THE CHANNEL BOTTOM.
 8. EXCAVATE FOR THE SEWER LINE TO THE DEPTH SHOWN ON THE PLAN. THE TOP WORK WILL REQUIRE TEMPORARY REMOVAL OF GRANITE BLOCK RETAINING WALL. EXCAVATION SHALL BE PLACED BEYOND THE TOP OF THE RETAINING WALL. EXCAVATION SHALL BE PLACED IN ALL CATCH BASINS RECEIVING RUNOFF FROM WORK AREA. INSTALL SEWER LINE PER THE SEWER TRENCH AND CONCRETE WITH INSULATION ENCASEMENT DETAIL SHOWN ON SHEET C-4-C10. BEAD SHALL BE LOCATED WITHIN THE STREAM.
 9. INSTALL TURF REINFORCEMENT MAT IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
 10. PLANTING ALONG PETTEE BROOK SHALL BE PLACED PER THE PLANTING PLAN AND IN ACCORDANCE WITH ENV-WT 303.09(K).
 11. INSTALL ADDITIONAL SILT SOCK ON BANK AS NECESSARY TO ENCOMPASS WORK AREAS. SEDIMENT FILTER BAG AND TEMPORARY RIP RAP. SEDIMENT FILTER BAG AND CONTENTS SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. REMOVE COFFERDAM SLOWLY ALLOWING FLOW TO AND BANKS CARE SHALL BE TAKEN TO MINIMIZE DISTURBANCE TO STREAM BED AND BANKS.
 12. ALL TEMPORARY EROSION CONTROLS SHALL REMAIN IN PLACE UNTIL CONTRIBUTING AREAS ARE STABILIZED.

FINAL APPROVAL BY THE DURHAM PLANNING BOARD
 CERTIFIED BY _____
 DATE _____

- LEGEND
- PROPOSED FURNISHABLE CONCRETE PAVEMENT BLOCKS
 - PROPOSED CONCRETE PAVEMENT BLOCKS
 - PROPOSED RIP RAP (PERMANENT & TEMPORARY)
 - EXISTING CONTOUR
 - TREE LINE
 - PROPOSED TREE LINE
 - PROPERTY LINE
 - EDGE OF PETTEE BROOK
 - FLOOD ZONE
 - PROPOSED UNDERGROUND UTILITIES
 - SILT SOCK
 - PROPOSED FINISHED GRADE
 - PROPOSED DRAIN LINE
 - PROPOSED SOFT GRADE
 - PROPOSED TURF REINFORCEMENT
 - PROPOSED POROUS ASPHALT
 - PETTEE BROOK
 - TEMPORARY WETLAND IMPACT
 - BANK IMPACT (OUTSIDE JURISDICTIONAL AREA)

SEWER STRUCTURE TABLE

SMH 1501	SMH 1501
CENTER OF MAIN TROUGH=34.3'	
(2) 6" PIPE=35.7'	
SMH 1502	SMH 1502
CENTER TROUGH=35.1'	
(2) CENTER TROUGH=36.1'	
SMH 1505	SMH 1505
CENTER TROUGH=45.9'	
SMH 1509	SMH 1509
CENTER TROUGH=45.5'	
(2) CENTER TROUGH=46.8'	
SMH 1510	SMH 1510
CENTER TROUGH=42.3'	
(2) CENTER TROUGH=42.3'	



UTILITIES NOTE:
 UTILITIES (GAS, TELEPHONE, WATER, SEWER AND DRAIN) ARE SHOWN ON THE PLAN. LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN ON THIS PROJECT WITHOUT THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATION FOR INFORMATION REGARDING SLUIC, CALL DIG-94RE: 1-888-010-54RE (1-888-344-2233).

 CIVIL ENVIRONMENTAL CONSULTING ENGINEERING 5 RAILROAD ST., P.O. BOX 359 NEWBURY, NH 03857 PHONE: (603) 659-4979, FAX: (603) 659-4627 E-MAIL: MJS@MJS-ENGINEERING.COM	WETLAND IMPACT PLAN prepared for TOWN OF DURHAM & ROSE LAWN PROPERTIES, LLC PETTEE BROOK LANE & 17 & 21 MADBURY ROAD DURHAM, NH	DATE: 4/14/14 SCALE: 1"=20' DESIGNED BY: MS DRAWN BY: MS APPROVED BY: MJS DWG FILE: 13-007 C1K.dwg	SEAL _____ DATE: _____							
	JOB: 13-007 WIP	REVISIONS <table border="1"> <tr> <th>NO.</th> <th>REVISIONS</th> <th>DATE</th> <th>INT.</th> </tr> <tr> <td>1.</td> <td>INITIAL SUBMISSION FOR COA REVIEW BY TOWN PLANNER</td> <td>5/28/14</td> <td>MS</td> </tr> </table>	NO.	REVISIONS	DATE	INT.	1.	INITIAL SUBMISSION FOR COA REVIEW BY TOWN PLANNER	5/28/14	MS
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