

DURHAM TOWN HALL ROUTE 108 DURHAM, NEW HAMPSHIRE

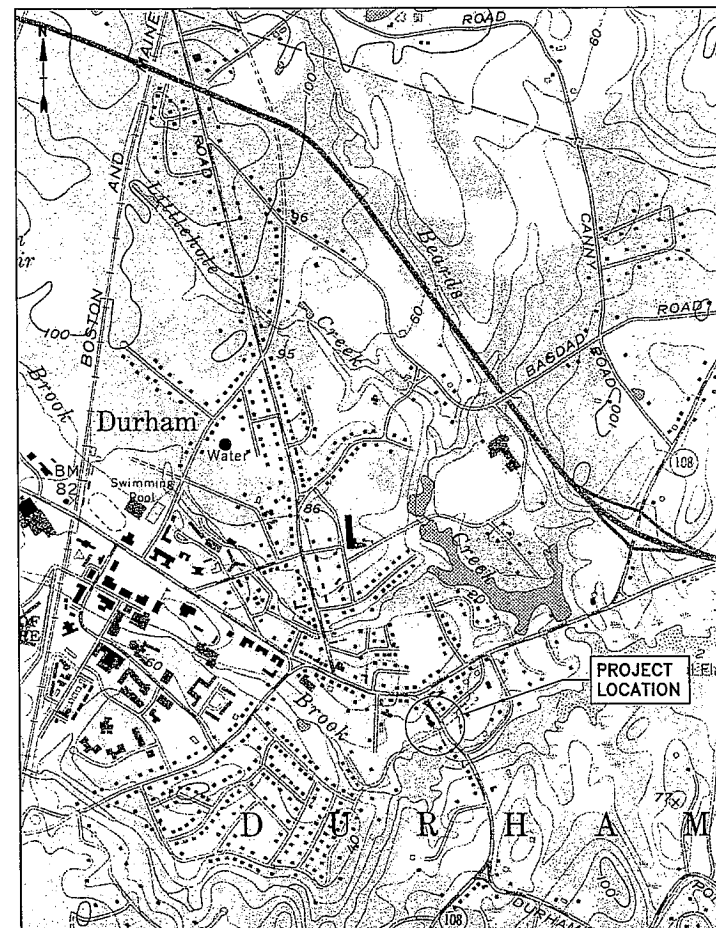
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Town of Durham

JUN 21 2013

Planning, Assessing,
Zoning & Code Enforcement

SITE PLANS JUNE 21, 2013

SHEET NO.	TITLE
	COVER SHEET
C-1	EXISTING CONDITIONS PLAN
C-2	DEMOLITION PLAN
C-3	SITE PLAN
C-4	GRADING, DRAINAGE, UTILITIES AND EROSION CONTROL PLAN
C-5	LANDSCAPE MASTER PLAN
C-6	DETAILS SHEET



SCALE: 1:1000

Owner: Town of Durham, New Hampshire

Applicant: Town of Durham, New Hampshire

Survey Consultant: Doucet Survey, Inc.

Architect: AG Architects, PC

Prepared By:

Tighe & Bond
Consulting Engineers
177 Corporate Drive
Portsmouth, NH 03801





Town of Durham

Durham Town Hall

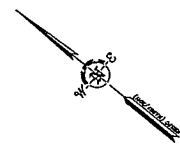
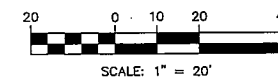
Durham, New Hampshire

Mark	Date	Description
		PROJECT NO: A1025
		FILE: A1025_SITE.dwg
		DRAWN BY: REP
		CHECKED: KAM
		APPROVED BY: GMM

EXISTING CONDITIONS PLAN

SCALE: AS SHOWN

C-1



LEGEND

- GRANITE BOUND FOUND
- MAG NAIL FOUND IN PAVEMENT
- IRON PIPE/ROD FOUND
- 5/8" REBAR W/ ID CAP TO BE SET
- UTILITY POLE & CUY WIRE
- BUILDING MOUNTED LIGHT OR GROUND LIGHT
- LIGHT POLE
- FIRE HYDRANT
- WATER GATE VALVE
- WATER SHUTOFF VALVE
- METAL SIGNPOST
- SIGN
- ELECTRIC BOX
- HVAC UNIT
- CATCH BASIN
- DRAIN MANHOLE
- SEWER MANHOLE
- MONITORING WELL
- DECIDUOUS TREE
- CONCRETE
- LANDSCAPED AREA
- LEDGE OUTCROP
- BOULDER
- HANDICAP PARKING SPACE
- TRAFFIC FLOW DIRECTION ARROW
- VERTICAL GRANITE CURB
- SLOPED GRANITE CURB
- EDGE OF PAVEMENT
- SINGLE WHITE LINE
- RETAINING
- FINISHED FLOOR
- OIL FILL CAP
- GAS REGULATOR
- CONCRETE
- DRAIN HOLE
- CONDUIT
- PAVEMENT CUT/PATCH LINE
- CONTOUR LINE
- DRAIN LINE
- OVERHEAD WIRES
- TREE LINE
- SHRUB LINE
- LOT LINES

NOTES:

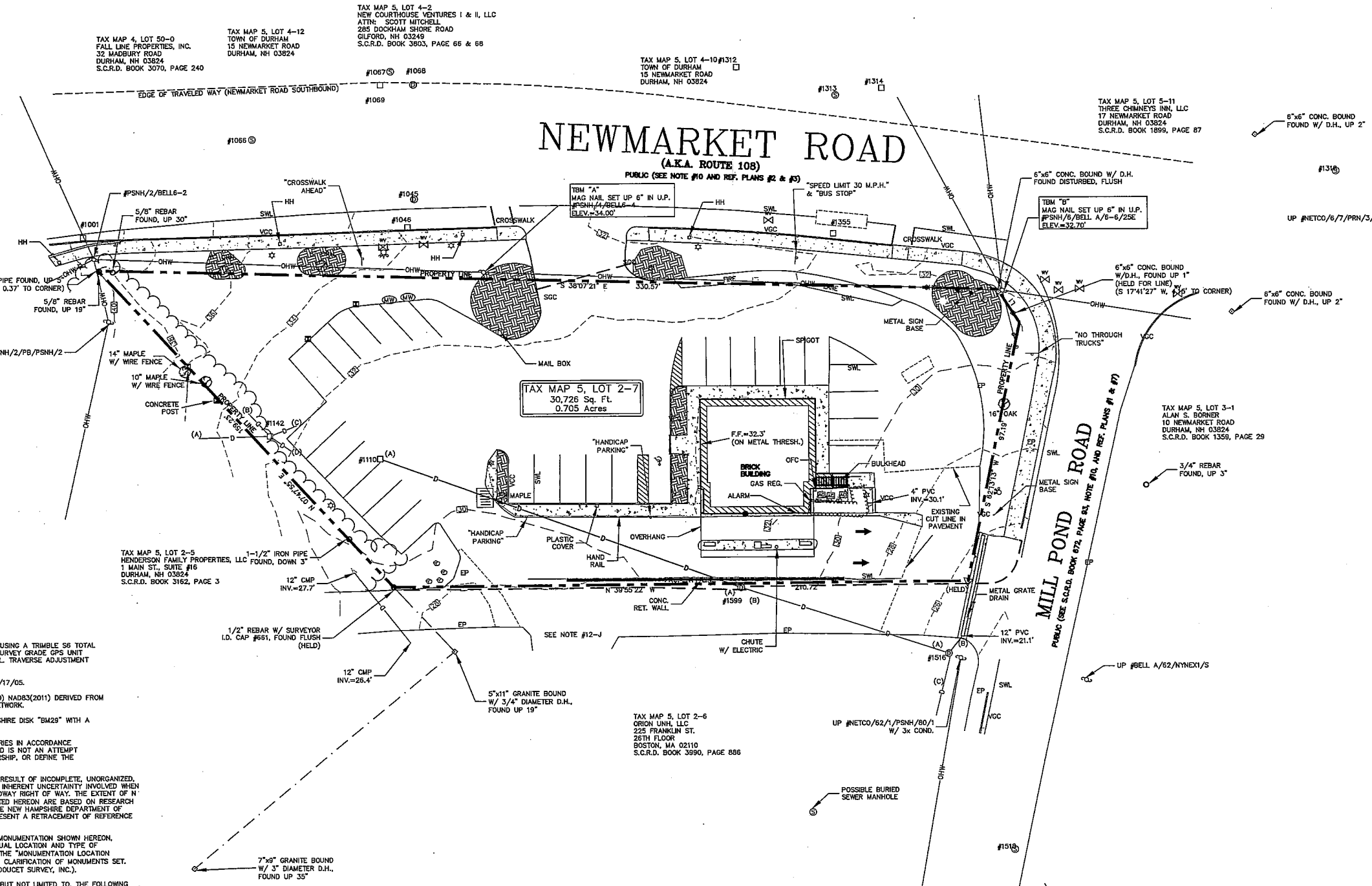
1. REFERENCE: TAX MAP 5, LOT 2-7
 2. TOTAL PARCEL AREA: 30,726 SQ. FT. OR 0.705 AC.
 3. OWNER OF RECORD: CHITTENDEN CORP. ROBIN TORREY, FACILITIES COORD. 2 BURLINGTON SQUARE BURLINGTON, VT 05401 S.C.R.D. BOOK 2185, PAGE 718
 4. ZONE: CH (CHURCH HILL) DURHAM HISTORIC OVERLAY DISTRICT (SEE ZONING ORDINANCE FOR ADDITIONAL REQUIREMENTS)
- DIMENSIONAL REQUIREMENTS:**
- MIN. LOT AREA 5,000 sq.ft.
 - MIN. FRONTAGE 50 ft.
 - MIN. FRONT SETBACK 15 ft.
 - MIN. SIDE SETBACK 5 ft.
 - MIN. REAR SETBACK 15 ft.
 - MAX. BUILDING HEIGHT 30 ft.
 - PERMITTED WITH PLANNING BOARD APPROVAL UNDER RSA 676:4 35 ft.
 - MAX. IMPERVIOUS SURFACE RATIO 80%
5. FIELD SURVEY PERFORMED BY DOUGET SURVEY, INC. DURING 7/12 USING A TRIMBLE S6 TOTAL STATION WITH A TRIMBLE 1233 DATA COLLECTOR, A TRIMBLE R8 SURVEY GRADE GPS UNIT WITH A TRIMBLE DATA COLLECTOR, AND A SOKKIA B21 AUTO LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
 6. FLOOD HAZARD ZONE: "X", PER FIRM MAP #33017003180, DATED 5/17/05.
 7. HORIZONTAL DATUM BASED ON NEW HAMPSHIRE STATE PLANE(2800) NAD83(2011) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNETGPS VRS NETWORK.
 8. VERTICAL DATUM IS BASED ON NGVD29 PER STATE OF NEW HAMPSHIRE DISK "BM29" WITH A PUBLISHED ELEVATION OF 44.97'.
 9. THE INTENT OF THIS PLAN IS TO SHOW THE LOCATION OF BOUNDARIES IN ACCORDANCE WITH AND IN RELATION TO THE CURRENT LEGAL DESCRIPTION, AND IS NOT AN ATTEMPT TO DEFINE UNWRITTEN RIGHTS, DETERMINE THE EXTENT OF OWNERSHIP, OR DEFINE THE LIMITS OF TITLE.
 10. DUE TO THE COMPLEXITY OF RESEARCHING ROAD RECORDS AS A RESULT OF INCOMPLETE, UNORGANIZED, INCONCLUSIVE, OBLITERATED, OR LOST DOCUMENTS, THERE IS AN INHERENT UNCERTAINTY INVOLVED WHEN ATTEMPTING TO DETERMINE THE LOCATION AND WIDTH OF A ROADWAY RIGHT OF WAY. THE EXTENT OF NEW MARKET ROAD (ROUTE 108) AND MILL POND ROAD AS DEPICTED HEREON ARE BASED ON RESEARCH CONDUCTED AT STRAFFORD COUNTY REGISTRY OF DEEDS AND THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION. THE RIGHT OF WAY AS SHOWN HEREON REPRESENT A RETRACED REFERENCE PLANS #1, #2, AND #3.
 11. FINAL MONUMENTATION MAY BE DIFFERENT THAN THE PROPOSED MONUMENTATION SHOWN HEREON. DUE TO THE FACT THAT SITE CONDITIONS WILL DICTATE THE ACTUAL LOCATION AND TYPE OF MONUMENTS INSTALLED IN THE FIELD. PLEASE REFER TO EITHER THE "MONUMENTATION LOCATION PLAN" TO BE RECORDED OR CONTACT DOUGET SURVEY, INC. FOR CLARIFICATION OF MONUMENTS SET. (A RECORDED PLAN WILL BE PRODUCED AT THE DISCRETION OF DOUGET SURVEY, INC.)
 12. TAX MAP 5, LOT 2-7 IS EITHER SUBJECT TO OR IN BENEFIT OF, BUT NOT LIMITED TO, THE FOLLOWING EASEMENTS/RIGHTS OF RECORD:
 - A. 20' WIDE RIGHT OF WAY FOR SEWER OR DRAIN PURPOSES GRANTED TO THE UNIVERSITY OF NEW HAMPSHIRE AT S.C.R.D. BOOK 467, PAGE 499. (LOCATION UNDETERMINED)
 - B. FLOWAGE RELEASE GRANTED TO THE STATE OF NEW HAMPSHIRE AT S.C.R.D. BOOK 567, PAGE 440. (LOCATION UNDETERMINED)
 - C. RIGHT OF WAY FOR DRAINAGE SYSTEM GRANTED TO THE TOWN OF DURHAM AT S.C.R.D. BOOK 672, PAGE 93. (ALSO CONTAINS ACCESS RESTRICTIONS TO THE NOW CALLED MILL POND ROAD)
 - D. FLOWAGE RELEASE GRANTED TO THE STATE OF NEW HAMPSHIRE AND ON FILE AT THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION DIVISION VI OFFICE.
 - E. SEWAGE RELEASE TO THE TOWN OF DURHAM AT S.C.R.D. BOOK 985, PAGE 939. (MAY NOT AFFECT MAP 5, LOT 2-7)
 - F. RIGHT OF WAY TAKING BY THE STATE OF NEW HAMPSHIRE AT S.C.R.D. BOOK 1497, PAGE 723.
 - G. ENCROACHMENT AGREEMENT BETWEEN LANDMARK REAL ESTATE, ERNEST CUTLER, JR. AND THE STATE OF NEW HAMPSHIRE AT S.C.R.D. BOOK 1414, PAGE 346. (MAY NO LONGER BE IN EFFECT DUE TO STIPULATIONS OF AGREEMENT)
 - H. ENCROACHMENT AGREEMENT BETWEEN SEACOAST SAVINGS BANK, ERNEST CUTLER, JR. AND THE STATE OF NEW HAMPSHIRE AT S.C.R.D. BOOK 1414, PAGE 347. (MAY NO LONGER BE IN EFFECT DUE TO STIPULATIONS OF AGREEMENT)
 - I. SEWAGE ENTRY APPLICATION AND CONTRACT SIGNED BY THE SELECTMEN OF DURHAM AT S.C.R.D. BOOK 749, PAGE 125. (LOCATION UNDETERMINED)
 - J. NO ACCESS EASEMENT OF RECORD FOUND IN FAVOR OF MAP 5, LOT 2-5, LOT 2-6, OR LOT 2-7.

REFERENCES:

1. "PLAN OF SUBDIVISION FOR ERNEST CUTLER JR., NEW MARKET ROAD -- NH ROUTE 108, DURHAM, NEW HAMPSHIRE" DATED AUG. 1991 BY K.E. MOORE & B.C. STAPLES. S.C.R.D. PLAN #22A-153
2. "RIGHT OF WAY PLANS PROPOSED BRIDGE REPLACEMENT PROJECT, FEDERAL PROJECT NO BR5-225(4), STATE OF N.H. PROJECT NO. P-3816" DATED APRIL 9, 1990, SHEETS #8 & #9. S.C.R.D. PLAN #38-19A & PLAN #38-20
3. "RIGHT-OF-WAY PLANS OF PROPOSED FEDERAL AID PROJECT NO. 06D-STP-M-X-5133(003), STATE OF N.H. PROJECT NO. C-2424-C" DATED OCTOBER 19, 2000, SHEETS #6 & #13. S.C.R.D. PLAN #60-59 & PLAN #60-64
4. "PLAN OF LAND DURHAM COMMUNITY CHURCH, DURHAM, NEW HAMPSHIRE" DATED SEPT. 30, 1957 BY G.L. DAVIS & ASSOCIATES. S.C.R.D. BOOK #1, FOLDER #3, PLAN #65
5. "PLAN OF LAND FOR DURHAM COMMUNITY CHURCH, DURHAM, NEW HAMPSHIRE" DATED FEBRUARY 6, 1958 BY G. L. DAVIS & ASSOCIATES. S.C.R.D. PLAN #200-49
6. "BOUNDARY PLAN PREPARED FOR DURHAM COMMUNITY CHURCH, DURHAM, NEW HAMPSHIRE" DATED MARCH 17, 1992 BY JF MORAN, INC. S.C.R.D. PLAN #40-73
7. "PLAN OF LAND PREPARED FOR ORION UNH, LLC, TAX MAP 5, LOT NO. 2-6, 2 MILL POND ROAD, TOWN OF DURHAM, COUNTY OF STRAFFORD, STATE OF NEW HAMPSHIRE" DATED JANUARY 18, 2012 BY MCNEANEY SURVEY ASSOCIATES, INC. (NOT RECORDED)

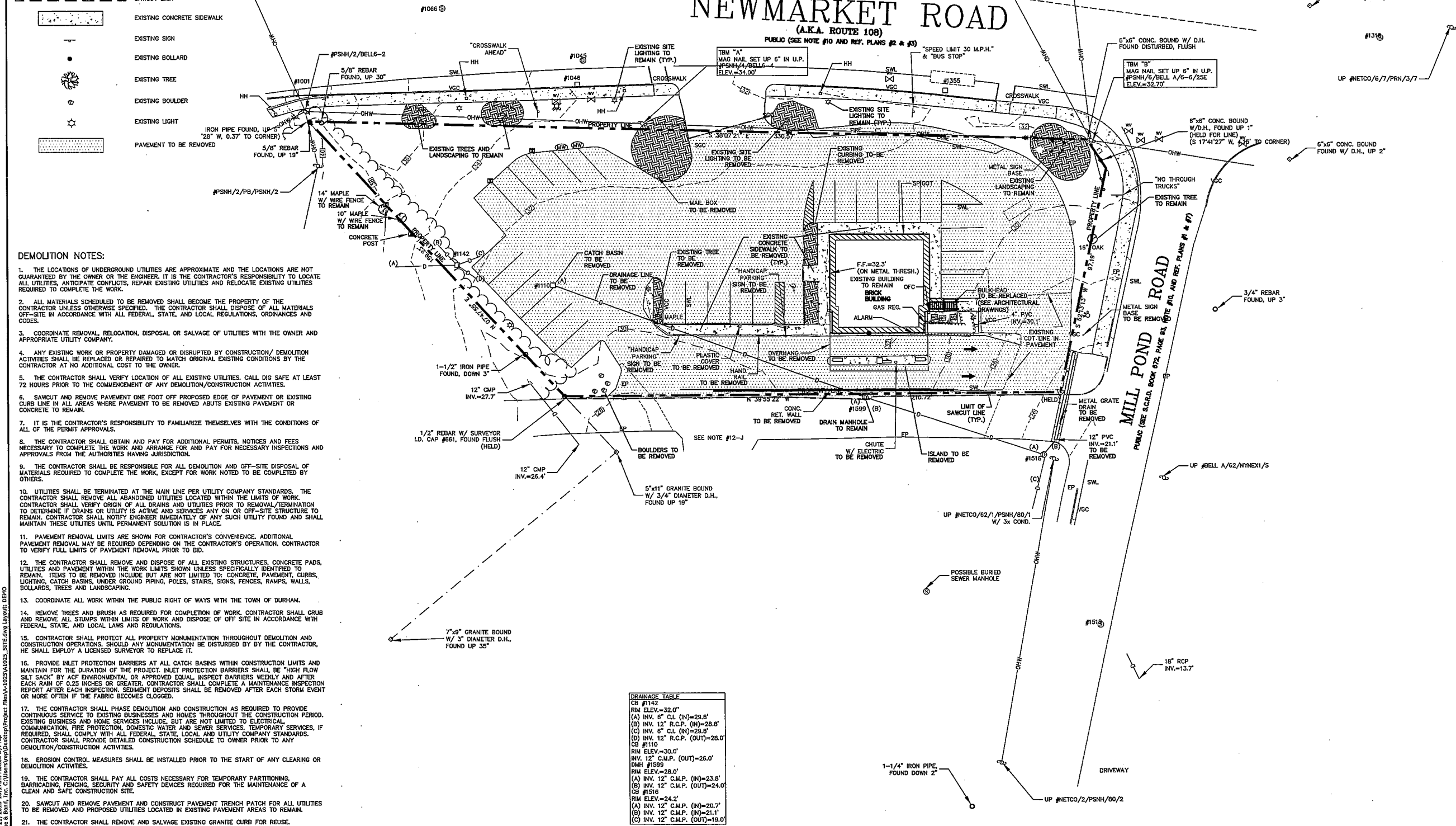
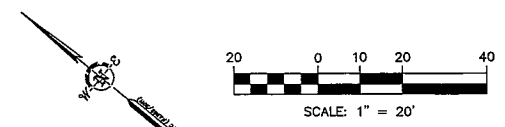
DRAINAGE TABLE

CB #1142	RIM ELEV.=32.0'
(A) INV. 6" C.I. (IN)=29.8'	
(B) INV. 12" R.C.P. (IN)=28.8'	
(C) INV. 6" C.I. (IN)=29.8'	
(D) INV. 12" R.C.P. (OUT)=28.0'	
CB #1110	RIM ELEV.=30.0'
INV. 12" C.M.P. (OUT)=26.0'	
DMH #1599	RIM ELEV.=28.0'
(A) INV. 12" C.M.P. (IN)=23.8'	
(B) INV. 12" C.M.P. (OUT)=24.0'	
CB #1518	RIM ELEV.=24.2'
(A) INV. 12" C.M.P. (IN)=20.7'	
(B) INV. 12" C.M.P. (IN)=21.1'	
(C) INV. 12" C.M.P. (OUT)=19.0'	



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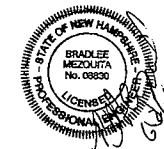
- LEGEND**
- PROPERTY LINE
 - - - - - ABUTTER LOT LINE
 - ~ ~ ~ ~ ~ EXISTING TREE LINE
 - - - - - EXISTING DRAINAGE
 - - - - - EXISTING ELECTRIC/TELEPHONE/CABLE
 - - - - - OHW
 - - - - - EXISTING OVERHEAD WIRE
 - - - - - EXISTING WATER
 - - - - - EXISTING SEWER
 - - - - - EXISTING GAS
 - - - - - EXISTING CONTOUR
 - - - - - EXISTING 10' CONTOUR
 - - - - - SAWCUT LIMIT
 - EXISTING CONCRETE SIDEWALK
 - EXISTING SIGN
 - EXISTING BOLLARD
 - EXISTING TREE
 - EXISTING BOULDER
 - EXISTING LIGHT
 - PAVEMENT TO BE REMOVED



- DEMOLITION NOTES:**
1. THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT GUARANTEED BY THE OWNER OR THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
 2. ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES AND CODES.
 3. COORDINATE REMOVAL, RELOCATION, DISPOSAL OR SALVAGE OF UTILITIES WITH THE OWNER AND APPROPRIATE UTILITY COMPANY.
 4. ANY EXISTING WORK OR PROPERTY DAMAGED OR DISRUPTED BY CONSTRUCTION/DEMOLITION ACTIVITIES SHALL BE REPLACED OR REPAIRED TO MATCH ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 5. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES. CALL DIG SAFE AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION/CONSTRUCTION ACTIVITIES.
 6. SAWCUT AND REMOVE PAVEMENT ONE FOOT OFF PROPOSED EDGE OF PAVEMENT OR EXISTING CURB LINE IN ALL AREAS WHERE PAVEMENT TO BE REMOVED ABUTS EXISTING PAVEMENT OR CONCRETE TO REMAIN.
 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS OF ALL OF THE PERMIT APPROVALS.
 8. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ADDITIONAL PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK AND ARRANGE FOR AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION.
 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND OFF-SITE DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE WORK, EXCEPT FOR WORK NOTED TO BE COMPLETED BY OTHERS.
 10. UTILITIES SHALL BE TERMINATED AT THE MAIN LINE PER UTILITY COMPANY STANDARDS. THE CONTRACTOR SHALL REMOVE ALL ABANDONED UTILITIES LOCATED WITHIN THE LIMITS OF WORK. CONTRACTOR SHALL VERIFY ORIGIN OF ALL DRAINS AND UTILITIES PRIOR TO REMOVAL/TERMINATION TO DETERMINE IF DRAINS OR UTILITIES ARE ACTIVE AND SERVICES ANY ON OR OFF-SITE STRUCTURE TO REMAIN. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY SUCH UTILITY FOUND AND SHALL MAINTAIN THESE UTILITIES UNTIL PERMANENT SOLUTION IS IN PLACE.
 11. PAVEMENT REMOVAL LIMITS ARE SHOWN FOR CONTRACTOR'S CONVENIENCE. ADDITIONAL PAVEMENT REMOVAL MAY BE REQUIRED DEPENDING ON THE CONTRACTOR'S OPERATION. CONTRACTOR TO VERIFY FULL LIMITS OF PAVEMENT REMOVAL PRIOR TO BID.
 12. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, CONCRETE PADS, UTILITIES AND PAVEMENT WITHIN THE WORK LIMITS SHOWN UNLESS SPECIFICALLY IDENTIFIED TO REMAIN. ITEMS TO BE REMOVED INCLUDE BUT ARE NOT LIMITED TO: CONCRETE, PAVEMENT, CURBS, LIGHTING, CATCH BASINS, UNDER GROUND PIPING, POLES, STAIRS, SIGNS, FENCES, RAMPS, WALLS, BOLLARDS, TREES AND LANDSCAPING.
 13. COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAYS WITH THE TOWN OF DURHAM.
 14. REMOVE TREES AND BRUSH AS REQUIRED FOR COMPLETION OF WORK. CONTRACTOR SHALL GRUB AND REMOVE ALL STUMPS WITHIN LIMITS OF WORK AND DISPOSE OF OFF SITE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
 15. CONTRACTOR SHALL PROTECT ALL PROPERTY MONUMENTATION THROUGHOUT DEMOLITION AND CONSTRUCTION OPERATIONS. SHOULD ANY MONUMENTATION BE DISTURBED BY THE CONTRACTOR, HE SHALL EMPLOY A LICENSED SURVEYOR TO REPLACE IT.
 16. PROVIDE INLET PROTECTION BARRIERS AT ALL CATCH BASINS WITHIN CONSTRUCTION LIMITS AND MAINTAIN FOR THE DURATION OF THE PROJECT. INLET PROTECTION BARRIERS SHALL BE "HIGH FLOW SILT SACK" BY ACF ENVIRONMENTAL OR APPROVED EQUAL. INSPECT BARRIERS WEEKLY AND AFTER EACH RAIN OF 0.25 INCHES OR GREATER. CONTRACTOR SHALL COMPLETE A MAINTENANCE INSPECTION REPORT AFTER EACH INSPECTION. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT OR MORE OFTEN IF THE FABRIC BECOMES CLOGGED.
 17. THE CONTRACTOR SHALL PHASE DEMOLITION AND CONSTRUCTION AS REQUIRED TO PROVIDE CONTINUOUS SERVICE TO EXISTING BUSINESSES AND HOMES THROUGHOUT THE CONSTRUCTION PERIOD. EXISTING BUSINESS AND HOME SERVICES INCLUDE, BUT ARE NOT LIMITED TO ELECTRICAL, COMMUNICATION, FIRE PROTECTION, DOMESTIC WATER AND SEWER SERVICES. TEMPORARY SERVICES, IF REQUIRED, SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL AND UTILITY COMPANY STANDARDS. CONTRACTOR SHALL PROVIDE DETAILED CONSTRUCTION SCHEDULE TO OWNER PRIOR TO ANY DEMOLITION/CONSTRUCTION ACTIVITIES.
 18. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION ACTIVITIES.
 19. THE CONTRACTOR SHALL PAY ALL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRIADING, FENCING, SECURITY AND SAFETY DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE CONSTRUCTION SITE.
 20. SAWCUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL UTILITIES TO BE REMOVED AND PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN.
 21. THE CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING GRANITE CURB FOR REUSE.

DRAINAGE TABLE

CB #1142	RIM ELEV.=32.0'
(A) INV. 6" C.I. (N)=29.8'	
(B) INV. 12" R.C.P. (N)=28.8'	
(C) INV. 6" C.I. (N)=29.8'	
(D) INV. 12" R.C.P. (OUT)=28.0'	
CB #1110	RIM ELEV.=30.0'
INV. 12" C.M.P. (OUT)=28.0'	
DMH #1599	RIM ELEV.=28.0'
(A) INV. 12" C.M.P. (N)=23.8'	
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Town of Durham

Durham Town Hall

Durham, New Hampshire

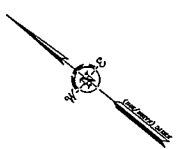
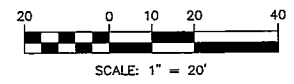
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CHECKED:	KAM	
APPROVED BY:	GMM	

DEMOLITION PLAN

SCALE: AS SHOWN

C-2

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LEGEND

	PROPERTY LINE
	SAWCUT LIMIT
	EXISTING TREE LINE
	PROPOSED TREE LINE
	EXISTING CONTOUR
	EXISTING 10' CONTOUR
	FINISHED GRADE
	EXISTING DRAINAGE
	PROPOSED DRAINAGE
	SILT FENCE
	PROPOSED INLET PROTECTION
	PROPOSED SLOPE
	PROPOSED SPOT GRADE

GRADING AND DRAINAGE NOTES:

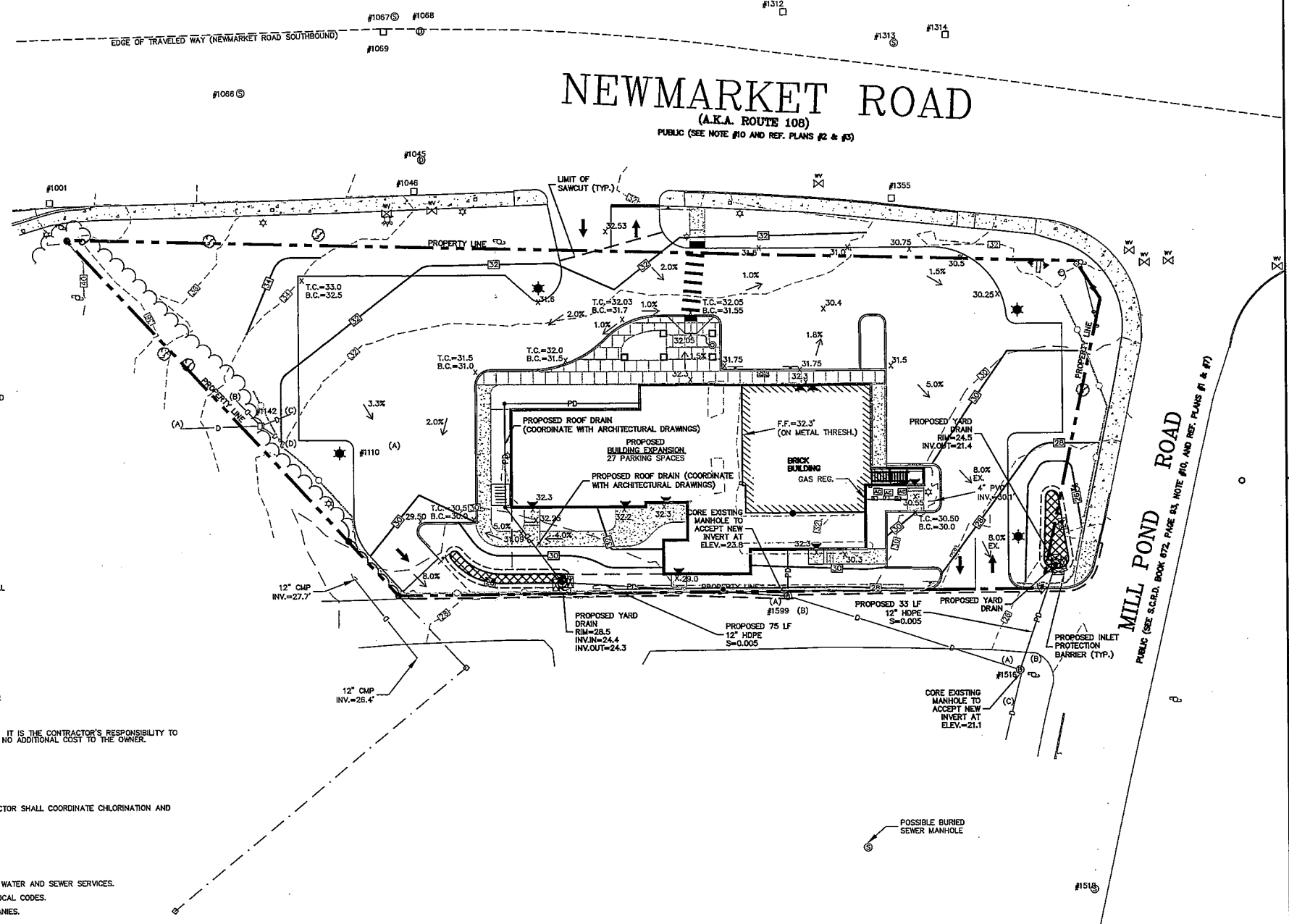
1. COMPACTION REQUIREMENTS:
 BELOW PAVED OR CONCRETE AREAS 95%
 TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL 95%
 BELOW LOAM AND SEED AREAS 90%
 * ALL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557, METHOD A FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM D-1559 OR ASTM-2922.
2. ALL STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE (HANCOR HI-0, ADS N-12 OR APPROVED EQUAL) OR RCP CLASS IV, UNLESS OTHERWISE SPECIFIED.
3. SEE UTILITIES PLAN FOR ALL SITE UTILITY INFORMATION.
4. ADJUST ALL MANHOLES, CATCHBASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.
5. CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE AND LAWN AREAS FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCES, EXITS, AND RAMPS ADJACENT TO THE BUILDING.
6. CONTRACTOR SHALL THOROUGHLY CLEAN ALL CATCHBASINS AND DRAIN LINES, WITHIN THE LIMIT OF WORK, OF SEDIMENT IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
7. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES.
8. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 4" LOAM, SEED FERTILIZER AND MULCH.
9. ALL STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NHDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITION.
10. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE AND TOWN OF DURHAM DEPARTMENT OF PUBLIC WORKS AND CONSTRUCTION SPECIFICATIONS, LATEST REVISIONS.
11. CONTRACTOR TO SUBMIT AS-BUILT PLANS ON REPRODUCIBLE MYLARS AND IN DIGITAL FORMAT (.DWG FILE) ON DISK TO THE OWNER AND ENGINEER UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL BE PREPARED AND CERTIFIED BY A NEW HAMPSHIRE LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER.
12. SEE EXISTING CONDITIONS PLAN FOR BENCH MARK INFORMATION.

EROSION CONTROL NOTES:

1. INSTALL EROSION CONTROL BARRIERS AS SHOWN AS FIRST ORDER OF WORK.
2. SEE GENERAL EROSION CONTROL NOTES ON DETAIL SHEETS.
3. PROVIDE INLET PROTECTION AROUND ALL EXISTING AND PROPOSED CATCHBASIN INLETS WITHIN THE WORK LIMITS. MAINTAIN FOR THE DURATION OF THE PROJECT UNTIL PAVEMENT HAS BEEN INSTALLED.
4. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
5. INSPECT INLET PROTECTION AND SILT FENCES DAILY AND AFTER EACH RAIN STORM OF 0.25 INCH OR GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE EFFICIENCY OF FILTER. REPLACE ALL FILTERS WHEN SEDIMENT IS 1/3 THE FILTER HEIGHT.
6. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 4" LOAM, SEED, FERTILIZER AND MULCH.
7. CONSTRUCT EXCELSIOR MAT ON ALL SLOPES STEEPER THAN 3:1.
8. PRIOR TO ANY WORK OR SOIL DISTURBANCE COMMENCING ON THE SUBJECT PROPERTY, INCLUDING MOVING OF EARTH, THE APPLICANT SHALL INSTALL ALL EROSION AND SILTATION MITIGATION AND CONTROL MEASURES AS REQUIRED BY STATE AND LOCAL PERMITS AND APPROVALS.
9. CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST AND WIND EROSION THROUGHOUT THE CONSTRUCTION PERIOD. DUST CONTROL MEASURES SHALL INCLUDE, BUT NOT LIMITED TO, SPRINKLING WATER ON UNSTABLE SOILS SUBJECT TO WIND CONDITIONS.
10. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF CONSTRUCTION.
11. ALL CATCHBASIN SUMPS AND PIPING SHALL BE THOROUGHLY CLEANED TO REMOVE ALL SEDIMENT AND DEBRIS AFTER THE PROJECT HAS BEEN PAVED.
12. TEMPORARY SOIL STOCKPILE SHALL BE SURROUNDED BY SILT FENCE AND SHALL BE STABILIZED BY TEMPORARY EROSION CONTROL SEEDING. STOCKPILE AREAS TO BE LOCATED AS FAR AS POSSIBLE FROM THE DELINEATED EDGE OF WETLAND.
13. SAFETY FENCING SHALL BE PROVIDED AROUND STOCKPILES OVER 10 FT.
14. CONCRETE TRUCKS WILL BE REQUIRED TO WASH OUT (IF NECESSARY) CHUTES ONLY WITHIN AREAS WHERE CONCRETE HAS BEEN PLACED. NO OTHER WASH OUT WILL BE ALLOWED.

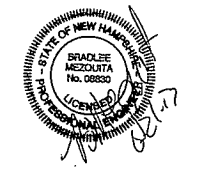
UTILITY NOTES:

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT GUARANTEED BY THE OWNER OR ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES, AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.
2. COORDINATE ALL UTILITY WORK WITH APPROPRIATE UTILITY COMPANY.
3. SEE EXISTING CONDITIONS PLAN FOR BENCH-MARK INFORMATION.
4. SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR PROPOSED GRADING AND EROSION CONTROL MEASURES.
5. ALL WATER MAIN INSTALLATIONS SHALL BE AWWA E900, PVC PIPE CLASS 150.
6. ALL WATERMAIN INSTALLATIONS SHALL BE PRESSURE TESTED AND CHLORINATED AFTER CONSTRUCTION PRIOR TO ACTIVATING THE SYSTEM. CONTRACTOR SHALL COORDINATE CHLORINATION AND TESTING WITH THE DURHAM WATER DEPARTMENT.
7. ALL SEWER PIPE SHALL BE PVC SDR 35 UNLESS OTHERWISE STATED.
8. ALL WORK WITHIN TOWN ROWS SHALL BE COORDINATED WITH TOWN OF DURHAM.
9. CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO ADJUTING PROPERTIES THROUGHOUT CONSTRUCTION.
10. CONNECTION TO EXISTING WATERMAIN SHALL BE CONSTRUCTED TO TOWN STANDARDS.
11. EXISTING UTILITIES TO BE REMOVED SHALL BE CAPPED AT THE MAIN AND MEET THE DEPARTMENT OF PUBLIC WORKS STANDARDS FOR CAPPING OF WATER AND SEWER SERVICES.
12. ALL ELECTRICAL MATERIAL WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LATEST EDITION, AND ALL APPLICABLE STATE AND LOCAL CODES.
13. THE EXACT LOCATION OF NEW UTILITY SERVICES AND CONNECTIONS SHALL BE COORDINATED WITH THE BUILDING DRAWINGS AND THE UTILITY COMPANIES.
14. ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.
15. ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.
16. THE CONTRACTOR SHALL OBTAIN, PAY FOR, AND COMPLY WITH ALL REQUIRED PERMITS, ARRANGE FOR ALL INSPECTIONS, AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO THE OWNER PRIOR TO THE COMPLETION OF THIS PROJECT.
17. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES, FITTINGS, CONNECTORS, COVER PLATES, AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL.
18. CONTRACTOR SHALL PROVIDE EXCAVATION, BEDDING, BACKFILL AND COMPACTION FOR NATURAL GAS SERVICES.
19. A 10-FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED BETWEEN ALL WATER AND SANITARY SEWER LINES. AN 18-INCH MINIMUM OUTSIDE TO OUTSIDE VERTICAL SEPARATION SHALL BE PROVIDED AT ALL WATER/SANITARY SEWER CROSSINGS.
20. THE CONTRACTOR SHALL CONTACT "DIG-SAFE" 72 HOURS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL HAVE THE "DIG-SAFE" NUMBER ON SITE AT ALL TIMES.
21. CONTRACTOR TO SUBMIT AS-BUILT PLANS ON REPRODUCIBLE MYLARS AND IN DIGITAL FORMAT (.DWG FILES) TO THE OWNER AND ENGINEER UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL BE PREPARED AND CERTIFIED BY A NEW HAMPSHIRE LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER.
22. SAWCUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN.
23. HYDRANTS, GATE VALVES, FITTINGS, ETC. SHALL MEET THE REQUIREMENTS OF THE TOWN OF DURHAM.
24. COORDINATE TESTING OF SEWER CONSTRUCTION WITH THE TOWN OF DURHAM.
25. ALL SEWER PIPE WITH LESS THAN 4' OF COVER IN UNPAVED AREAS AND 6' OF COVER IN PAVED AREAS SHALL BE INSULATED.
26. CONTRACTOR SHALL COORDINATE ALL ELECTRIC WORK INCLUDING BUT NOT LIMITED TO: CONDUIT CONSTRUCTION, MANHOLE CONSTRUCTION, UTILITY POLE CONSTRUCTION, OVERHEAD WIRE RELOCATION, AND TRANSFORMER CONSTRUCTION WITH POWER COMPANY.
27. CONTRACTOR SHALL PHASE UTILITY CONSTRUCTION, PARTICULARLY WATER MAIN AND GAS MAIN CONSTRUCTION AS TO MAINTAIN CONTINUOUS SERVICE TO ADJUTING PROPERTIES. CONTRACTOR SHALL COORDINATE TEMPORARY SERVICES TO ADJUTING WITH THE UTILITY COMPANY AND AFFECTED ADJUTER.
28. SITE LIGHTING SPECIFICATIONS, CONDUIT LAYOUT AND CIRCUITRY FOR PROPOSED SITE LIGHTING AND SIGN ILLUMINATION SHALL BE PROVIDED BY THE PROJECT ELECTRICAL ENGINEER.
29. CONTRACTOR SHALL CONSTRUCT ALL UTILITIES AND DRAINS TO WITHIN 10' OF THE FOUNDATION WALLS AND CONNECT THESE TO SERVICE STUBS FROM THE BUILDING.



DRAINAGE TABLE

CB #1142	INV. 5" C.I. (N)=29.8'
(A) INV. 5" C.I. (N)=29.8'	
(B) INV. 12" R.C.P. (N)=28.8'	
(C) INV. 8" C.I. (N)=29.8'	
(D) INV. 12" R.C.P. (OUT)=28.0'	
CS #1110	INV. 12" C.M.P. (N)=23.8'
(A) INV. 12" C.M.P. (N)=23.8'	
(B) INV. 12" C.M.P. (OUT)=24.0'	
CS #1516	INV. 12" C.M.P. (N)=20.7'
(A) INV. 12" C.M.P. (N)=20.7'	
(B) INV. 12" C.M.P. (N)=21.1'	
(C) INV. 12" C.M.P. (OUT)=19.0'	



Town of Durham

Durham Town Hall

Durham, New Hampshire

Mark	Date	Description
PROJECT NO:	A1025	
FILE:	A1025_SITE.dwg	
DRAWN BY:	REP	
CHECKED BY:	KAM	
APPROVED BY:	GMM	

GRADING, DRAINAGE, UTILITIES, AND EROSION CONTROL PLAN

SCALE: AS SHOWN

Jun 21, 2013 10:20am Plotted By: rep
 Tighe & Bond, Inc. C:\Users\rep\Documents\Projects\1025\A1025_SITE.dwg Layout: GRADE

