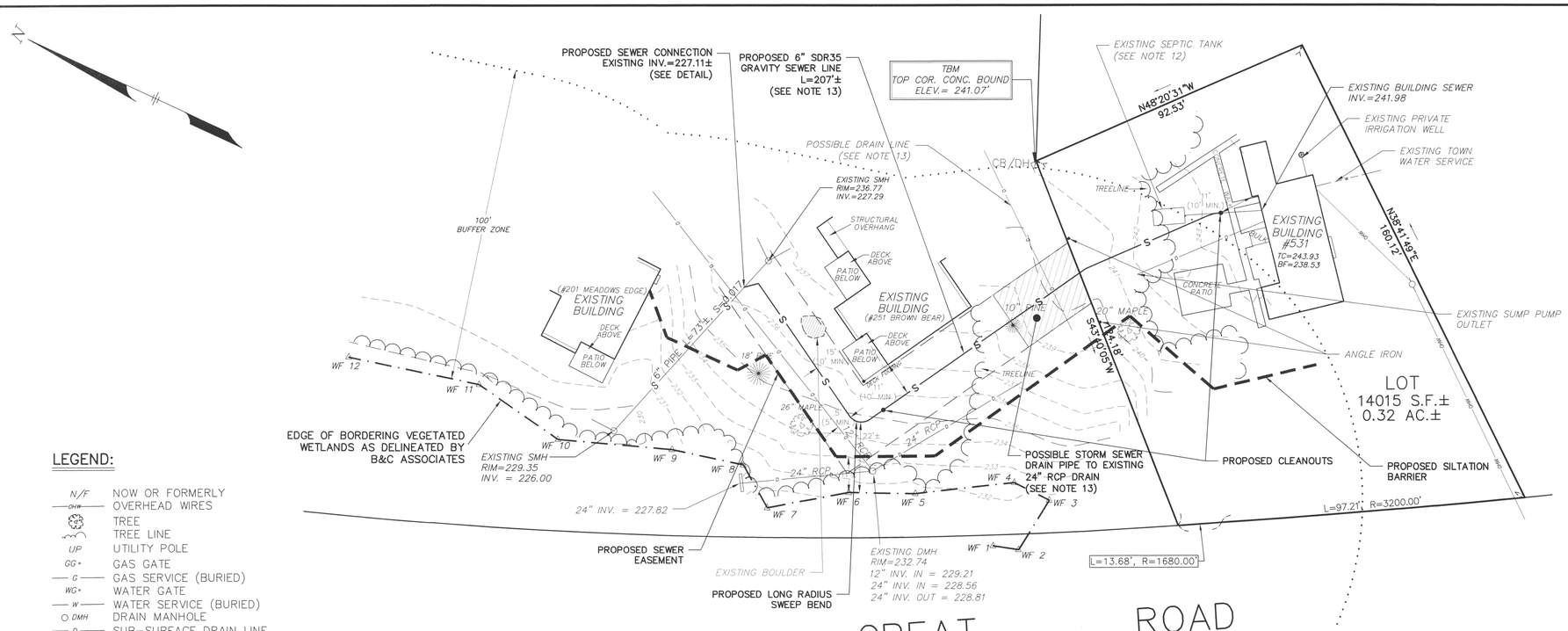
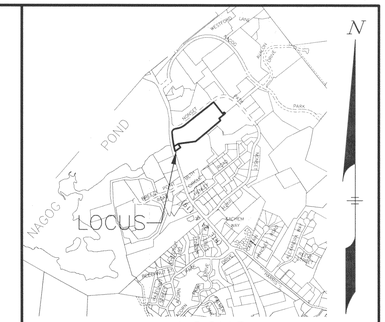


PLAN VIEW

SCALE: 1"=20'



LOCUS

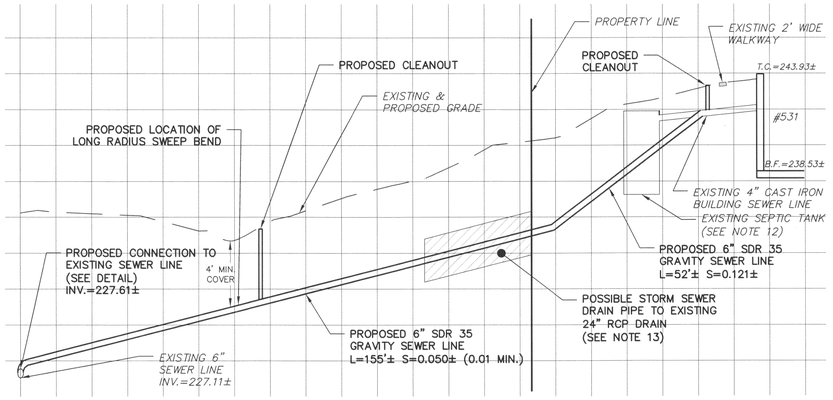
NOT TO SCALE

LEGEND:

N/F	NOW OR FORMERLY
—OHW—	OVERHEAD WIRES
	TREE
	TREE LINE
UP	UTILITY POLE
GG•	GAS GATE
— G —	GAS SERVICE (BURIED)
WG•	WATER GATE
— W —	WATER SERVICE (BURIED)
○ DMH	DRAIN MANHOLE
— D —	SUB-SURFACE DRAIN LINE
----99----	EXISTING CONTOUR
— —95— —	EXISTING CONTOUR
☼	LIGHTPOLE
△	WETLAND FLAG
99X9	SPOT ELEVATION
○○○○○	STONE WALL

NOTES & SPECIFICATIONS

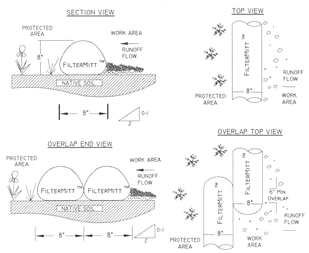
1. THE PURPOSE OF THIS PLAN IS TO PERMIT THE CONSTRUCTION OF A SEWER CONNECTION.
2. SEWAGE FLOW ESTIMATES HAVE BEEN OBTAINED FROM THE STATE ENVIRONMENTAL CODE (TITLE 5); SECTION 310 CMR 15.203.
3. ALL SEWER LINES SHALL BE INSTALLED IN ACCORDANCE WITH TABLE 2 – MINIMUM ACCEPTABLE SEPARATION DISTANCES LOCATED IN "GUIDELINES FOR THE DESIGN, CONSTRUCTION, OPERATION, AND MAINTENANCE OF SMALL WASTEWATER TREATMENT FACILITIES WITH LAND DISPOSAL (MA DEP DIVISION OF WATERSHED PERMITTING APRIL 2004).
4. ALL PROPOSED SEWERS SHALL BE GRAVITY.
5. THE INTRODUCTION OF RAINWATER, SURFACE DRAINAGE, SUMP PUMP DISCHARGES, NON-CONTACT COOLING WATER OR ANY OTHER SOURCE OF INFLOW INTO THIS SYSTEM OTHER THAN TYPICAL RESIDENTIAL FLOWS ASSOCIATED WITH SINGLE FAMILY RESIDENTIAL DWELLINGS IS PROHIBITED.
6. NO GRAVITY SEWER SHALL BE LESS THAN SIX (6) INCHES IN DIAMETER.
7. NO BUILDING SEWER SHALL BE LESS THAN FOUR (4) INCHES IN DIAMETER.
8. DEPTH OF COVER – SEWERS SHALL BE DEEP ENOUGH TO PREVENT FREEZING. INSULATION SHALL BE REQUIRED FOR SEWERS THAT CANNOT BE PLACED AT DEPTHS GREATER THAN FOUR (4) FEET.
9. ALL SEWERS GREATER THAN 10' FROM THE BUILDING FOUNDATION SHALL BE CONSTRUCTED OF SDR-35 PVC.
10. LEAKAGE TESTING – SEWER JOINTS SHALL BE CONSTRUCTED TO MINIMIZE LEAKAGE AND TO PREVENT THE ENTRANCE OF ROOTS. ALLOWABLE INFILTRATION OR EXFILTRATION SHALL NOT EXCEED 200 GPD/INCH DIAM/MILE OF SEWER. LEAKAGE TESTS SHALL BE PERFORMED UTILIZING EITHER WATER OR LOW-PRESSURE AIR TESTING. SUCH TEST SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET ABOVE THE WATER TABLE.
11. WHEREVER POSSIBLE, SEWERS SHALL BE LAID AT A MINIMUM OF AT LEAST TEN FEET, HORIZONTALLY, FROM ANY EXISTING OR PROPOSED WATER MAIN. A SEWER MAY BE LAID CLOSER THAN TEN FEET TO A WATER MAIN IF IT IS LAID IN A SEPARATE TRENCH AND THE ELEVATION OF THE CROWN OF THE SEWER IS AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN. WHENEVER SEWERS MUST CROSS UNDER WATER MAINS, THE SEWER SHALL BE LAID AT SUCH ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN. WHEN THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THIS REQUIREMENT, THE WATER MAIN SHALL BE CONSTRUCTED WITH MECHANICAL JOINT PIPE FOR A DISTANCE OF TEN FEET ON EACH SIDE OF THE SEWER. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM SEWER AS POSSIBLE.
WHEN IT IS IMPOSSIBLE TO OBTAIN HORIZONTAL AND/OR VERTICAL SEPARATION AS STIPULATED ABOVE, BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF MECHANICAL JOINT CEMENT-LINED DUCTILE IRON PIPE OR EQUIVALENT THAT IS WATERTIGHT AND STRUCTURALLY SOUND. BOTH PIPES SHALL BE PRESSURE TESTED TO 150 PSI TO INSURE THAT THEY ARE WATERTIGHT.
12. USE OF THE EXISTING SEPTIC SYSTEM SHALL BE DISCONTINUED. THE SEWER LINE SHALL BE REMOVED FROM BEYOND 15 FEET OF THE DWELLING. THE SEPTIC TANK SHALL BE PUMPED OF ITS CONTENTS BY A LICENSED SEPTAGE HAULER AND DISPOSED OFF SITE. THE SEPTIC TANK SHALL BE EXCAVATED AND REMOVED FROM SITE OR RUPTURED AFTER BEING PUMPED OF IS CONTENTS SO AS TO PREVENT RETENTION OF WATER AND THE TANK SHALL BE COMPLETELY FILLED WITH CLEAN SAND IN ACCORDANCE WITH 310 CMR 15.354 ABANDONMENT OF SYSTEMS. THE EXISTING SOIL ABSORPTION SYSTEM SHALL BE ABANDONED IN PLACE.
13. CONTRACTOR SHALL CONFIRM PRESENCE OR ABSENCE OF A STORM SEWER DRAIN BETWEEN #251 BROWN BEAR AND #531 GREAT ROAD TO THE DEPTHS SHOWN ON THE DESIGN PLAN ALONG THE PROPOSED SEWER LINE AND REPORT FINDINGS TO THE DESIGN ENGINEER PRIOR TO INSTALLING ANY SEWER PIPE. SHOULD A STORM SEWER DRAIN BE PRESENT, THEN SLOPE ADJUSTMENTS SHALL BE MADE TO THE PROPOSED SEWER.
14 IF ALTERATIONS (REMOVAL OF VEGETATION, GRADING, EXCAVATIONS, ETC.) ARE TO BE MADE WITHIN 100 FEET OF WETLAND AREAS (PONDS, BROOKS, SWAMPS, ETC.) A REQUEST FOR DETERMINATION OF APPLICABILITY OF THE WETLANDS PROTECTION ACT (c131 s40A) SHOULD BE FILED WITH THE TOWN'S CONSERVATION COMMISSION. THE FILING OF A NOTICE OF INTENT MAY BE REQUIRED AND LOCAL BYLAWS MAY APPLY.



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=4' VERTICAL

DETAILED SPECIFICATIONS
8" SEDIMENT FILTERMITT ™
SLOPES 2 TO 1 OR LESS
FIG. 1



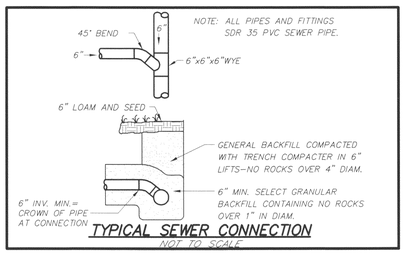
SILTATION BARRIER DETAIL

NOT TO SCALE

FOR FURTHER INFORMATION ABOUT PHASE II STORMWATER PRODUCTS, INC. CONTACT US AT:
P.O. Box 737 - WRENTHAM, MA 02093 - PH: (508) 384-7140 - FAX: (508) 384-0571
WWW.GROUNDSCAPESEXPRESS.COM

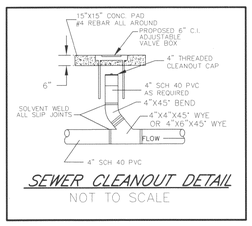
UTILITY NOTE:

ALL UNDERGROUND UTILITIES SHOWN HERE WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS FROM VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE DESIGNING, EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAIRING. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. SEE CHAPTER 370, ACTS OF 1963 MASS. WE ASSUME NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. BEFORE PLANNING FUTURE CONNECTIONS THE APPROPRIATE PUBLIC UTILITY ENGINEERING DEPARTMENT MUST BE CONSULTED. DIG SAFE TELEPHONE No. 1-888-344-7233.



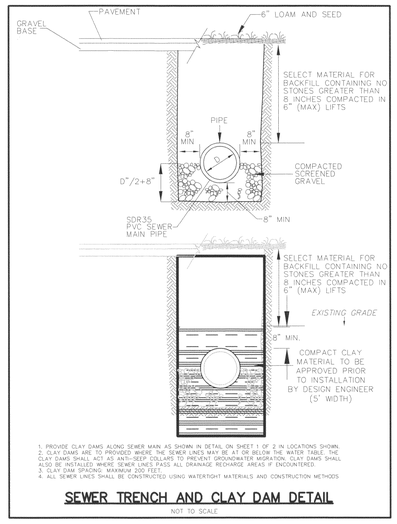
TYPICAL SEWER CONNECTION

NOT TO SCALE



SEWER CLEANOUT DETAIL

NOT TO SCALE



1. PROVIDE CLAY DAMS ALONG SEWER MAIN AS SHOWN IN DETAIL ON SHEET 1 OF 2 IN LOCATIONS SHOWN.
2. CLAY DAMS ARE TO PROVIDED WHERE THE SEWER LINES MAY BE AT OR BELOW THE WATER TABLE. THE CLAY DAMS SHALL ACT AS ANTI-SEEP COLLARS TO PREVENT GROUNDWATER MIGRATION. CLAY DAMS SHALL ALSO BE INSTALLED WHERE SEWER LINES PASS ALL DRAINAGE RECHARGE AREAS IF ENCOUNTERED.
3. CLAY DAM SPACING: MAXIMUM 200 FEET.
4. ALL SEWER LINES SHALL BE CONSTRUCTED USING WATERTIGHT MATERIALS AND CONSTRUCTION METHODS

SEWER TRENCH AND CLAY DAM DETAIL

NOT TO SCALE

531 GREAT ROAD
ACTON, MA

SEWER CONNECTION PLAN

FOR: THE DARTMOUTH GROUP
SCALE: AS SHOWN APRIL 1, 2013

STAMSKI AND MCNARY, INC.
1000 MAIN STREET ACTON, MASSACHUSETTS
ENGINEERING – PLANNING – SURVEYING

(5065-SEWER.dwg) 531 GREAT ROAD SM-5065

COMMONWEALTH OF MASSACHUSETTS
JOSEPH MARCH
CIVIL
#40472
REGISTERED PROFESSIONAL ENGINEER