

LOT DEVELOPMENT PLAN GRAFTON, MASSACHUSETTS 114 MERRIAM ROAD

NOVEMBER 18, 2014



LOCUS PLAN – GRAFTON GIS
SCALE: 1"=600'



LOCUS PLAN – USGS 2012 SHREWSBURY QUAD
SCALE: 1"=800'

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 SHEET 7 OF 7: NOTES

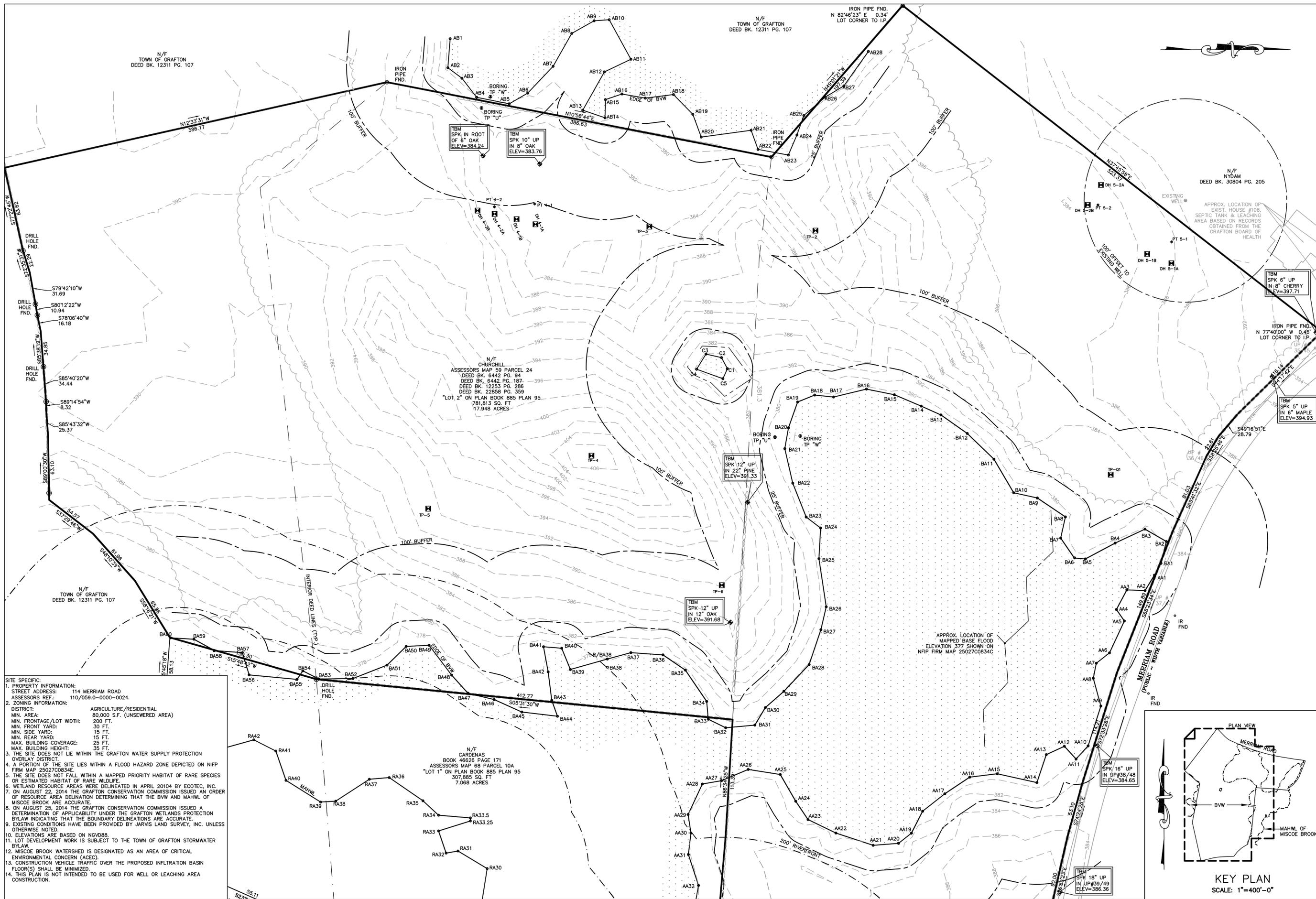
PROPERTY INFORMATION:
 STREET ADDRESS: 114 MERRIAM ROAD
 ASSESSORS REF.: 110/059.0-0000-0024.0
 DEED REFERENCE: BOOK 6442 PAGE 94
 BOOK 6442 PAGE 187
 BOOK 12253 PAGE 286
 BOOK 22858 PAGE 359

LOT DEVELOPMENT PLAN GRAFTON, MASSACHUSETTS 114 MERRIAM ROAD	
NO.	REVISION
2	COMMON DRIVEWAY RECONFIG.
1	COMMON DRIVEWAY REVISION
NO.	DATE
	4/16/15
	3/27/15

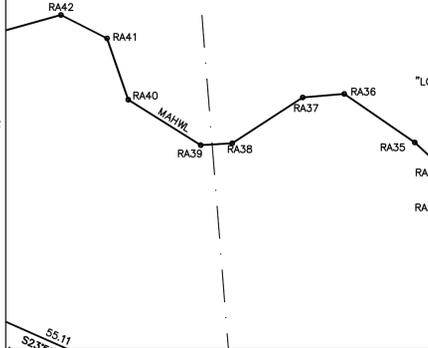
OWNER:
 FREDERIC & MARGOT CHURCHILL
 243 PLEASANT STREET
 S. YARMOUTH MA 02664

APPLICANT:
 FREDERIC CHURCHILL
 243 PLEASANT STREET
 S. YARMOUTH MA 02664

**QUINN
ENGINEERING, INC.**
 P.O. Box 107
 Paxton, Massachusetts 01612
 (508)753-7999 Fax:(508)795-0939



- SITE SPECIFIC:**
- PROPERTY INFORMATION:
STREET ADDRESS: 114 MERRIAM ROAD
ASSESSORS REF.: 110/059.0-0000-0024.
 - ZONING INFORMATION:
DISTRICT: AGRICULTURE/RESIDENTIAL
MIN. AREA: 80,000 S.F. (UNSEWERED AREA)
MIN. FRONTAGE/LOT WIDTH: 200 FT.
MIN. FRONT YARD: 30 FT.
MIN. SIDE YARD: 15 FT.
MIN. REAR YARD: 15 FT.
MAX. BUILDING COVERAGE: 25 FT.
MAX. BUILDING HEIGHT: 35 FT.
 - THE SITE DOES NOT LIE WITHIN THE GRAFTON WATER SUPPLY PROTECTION OVERLAY DISTRICT.
 - A PORTION OF THE SITE LIES WITHIN A FLOOD HAZARD ZONE DEPICTED ON NIPP FIRM MAP 25027C0834E.
 - THE SITE DOES NOT FALL WITHIN A MAPPED PRIORITY HABITAT OF RARE SPECIES OR ESTIMATED HABITAT OF RARE WILDLIFE.
 - WETLAND RESOURCE AREAS WERE DELINEATED IN APRIL 2010 BY ECOTEC, INC.
 - ON AUGUST 22, 2014 THE GRAFTON CONSERVATION COMMISSION ISSUED AN ORDER OF RESOURCE AREA DELINEATION DETERMINING THAT THE BVW AND MAHWL OF MISCOE BROOK ARE ACCURATE.
 - ON AUGUST 25, 2014 THE GRAFTON CONSERVATION COMMISSION ISSUED A DETERMINATION OF APPLICABILITY UNDER THE GRAFTON WETLANDS PROTECTION BYLAW INDICATING THAT THE BOUNDARY DELINEATIONS ARE ACCURATE.
 - EXISTING CONDITIONS HAVE BEEN PROVIDED BY JARVIS LAND SURVEY, INC. UNLESS OTHERWISE NOTED.
 - ELEVATIONS ARE BASED ON NGVD88.
 - LOT DEVELOPMENT WORK IS SUBJECT TO THE TOWN OF GRAFTON STORMWATER BYLAW.
 - MISCOE BROOK WATERSHED IS DESIGNATED AS AN AREA OF CRITICAL ENVIRONMENTAL CONCERN (ACEC).
 - CONSTRUCTION VEHICLE TRAFFIC OVER THE PROPOSED INFILTRATION BASIN FLOOR(S) SHALL BE MINIMIZED.
 - THIS PLAN IS NOT INTENDED TO BE USED FOR WELL OR LEACHING AREA CONSTRUCTION.



NO.	REVISION	DATE
2	COMMON DRIVEWAY RECONFIG.	4/15/15
1	COMMON DRIVEWAY REV.	3/27/15

OWNER: FREDERIC CHURCHILL
243 PLEASANT STREET
S. YARMOUTH MA 02664

APPLICANT: FREDERIC CHURCHILL
243 PLEASANT STREET
S. YARMOUTH MA 02664

DESIGNER: KEVIN J. QUINN CIVIL #33922

PROPOSED LOT DEVELOPMENT PLAN
IN GRAFTON, MASSACHUSETTS
114 MERRIAM ROAD

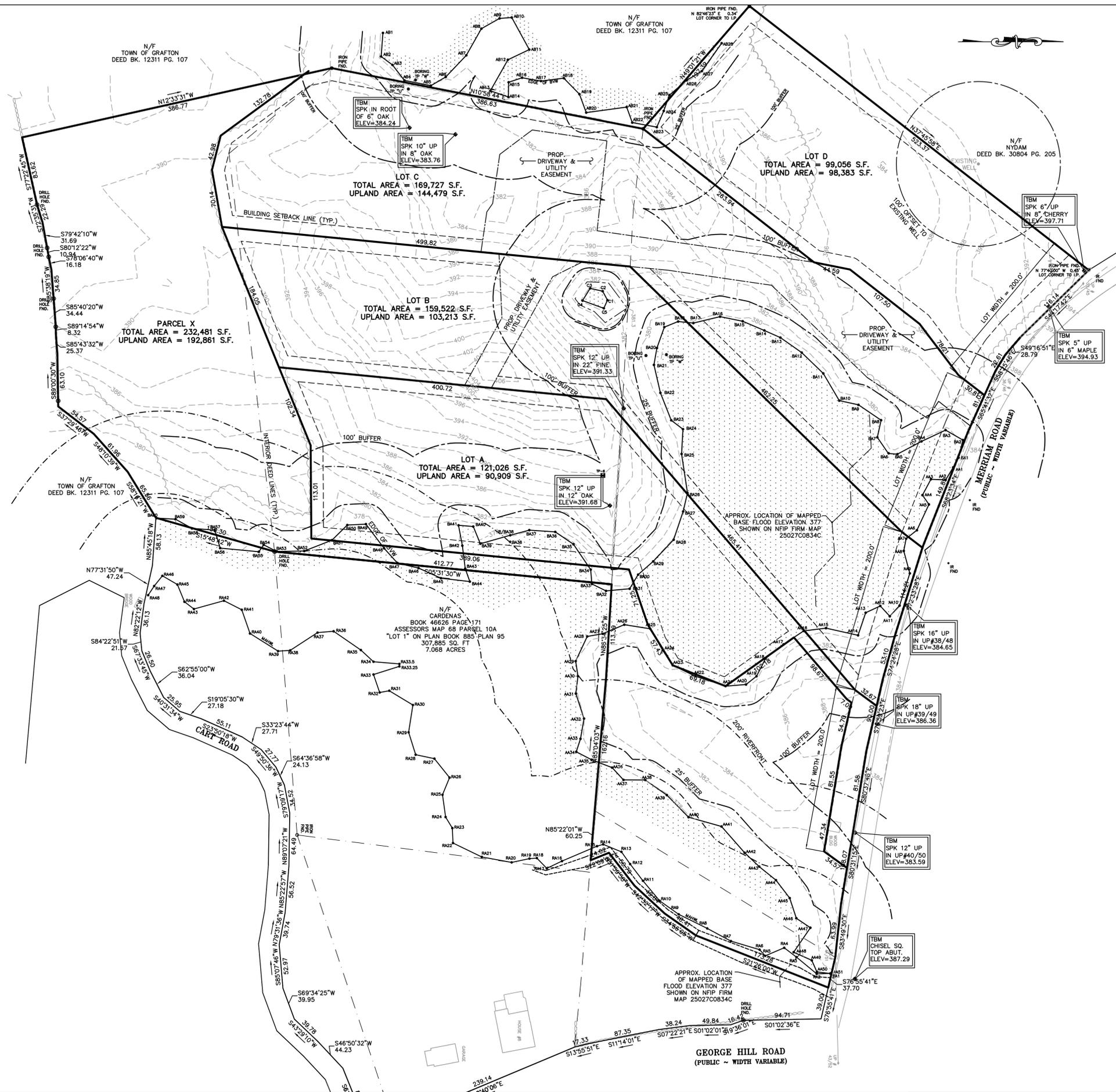
SCALE: 1"=40'

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DATE: NOVEMBER 18, 2014

EXISTING CONDITIONS PLAN

SHEET 1 OF 7



NO.	REVISION	DATE
2	COMMON DRIVEWAY RECONFIG.	4/16/15
1	COMMON DRIVEWAY REV.	3/27/15

OWNER: FREDERIC & MARCOT CHURCHILL
 243 PLEASANT STREET
 S. YARMOUTH, MA 02864

APPLICANT: FREDERIC CHURCHILL
 243 PLEASANT STREET
 S. YARMOUTH, MA 02864

PROPOSED LOT DEVELOPMENT PLAN
 IN GRAFTON, MASSACHUSETTS
 114 MERRIAM ROAD

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DATE: NOVEMBER 18, 2014
 PROPOSED LOT LAYOUT PLAN
 SHEET 2 OF 7



N/F
TOWN OF GRAFTON
DEED BK. 12311 PG. 107

N/F
TOWN OF GRAFTON
DEED BK. 12311 PG. 107

IRON PIPE FND.
N 82°46'23" E 0.34'
LOT CORNER TO I.P.

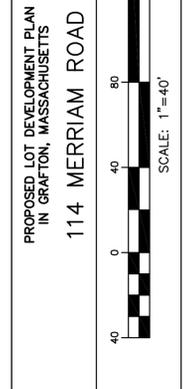


NO.	REVISION	DATE
1	COMMON DRIVEWAY REV.	3/27/15
2	COMMON DRIVEWAY RECONFIG.	4/15/15

APPLICANT:
FREDERIC CHURCHILL
243 PLEASANT STREET
S. YARMOUTH MA 02864

OWNER:
MARCOT CHURCHILL
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PROPOSED LOT DEVELOPMENT PLAN
IN GRAFTON, MASSACHUSETTS
114 MERRIAM ROAD



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PROPOSED LOT DEVELOPMENT PLAN

SHEET 3 OF 7

116C02

LOT C
TOTAL AREA = 169,727 S.F.
UPLAND AREA = 144,479 S.F.

PARCEL X
TOTAL AREA = 232,481 S.F.
UPLAND AREA = 192,861 S.F.

LOT D
TOTAL AREA = 99,056 S.F.
UPLAND AREA = 98,383 S.F.

LOT B
TOTAL AREA = 159,522 S.F.
UPLAND AREA = 103,213 S.F.

LOT A
TOTAL AREA = 121,026 S.F.
UPLAND AREA = 90,909 S.F.

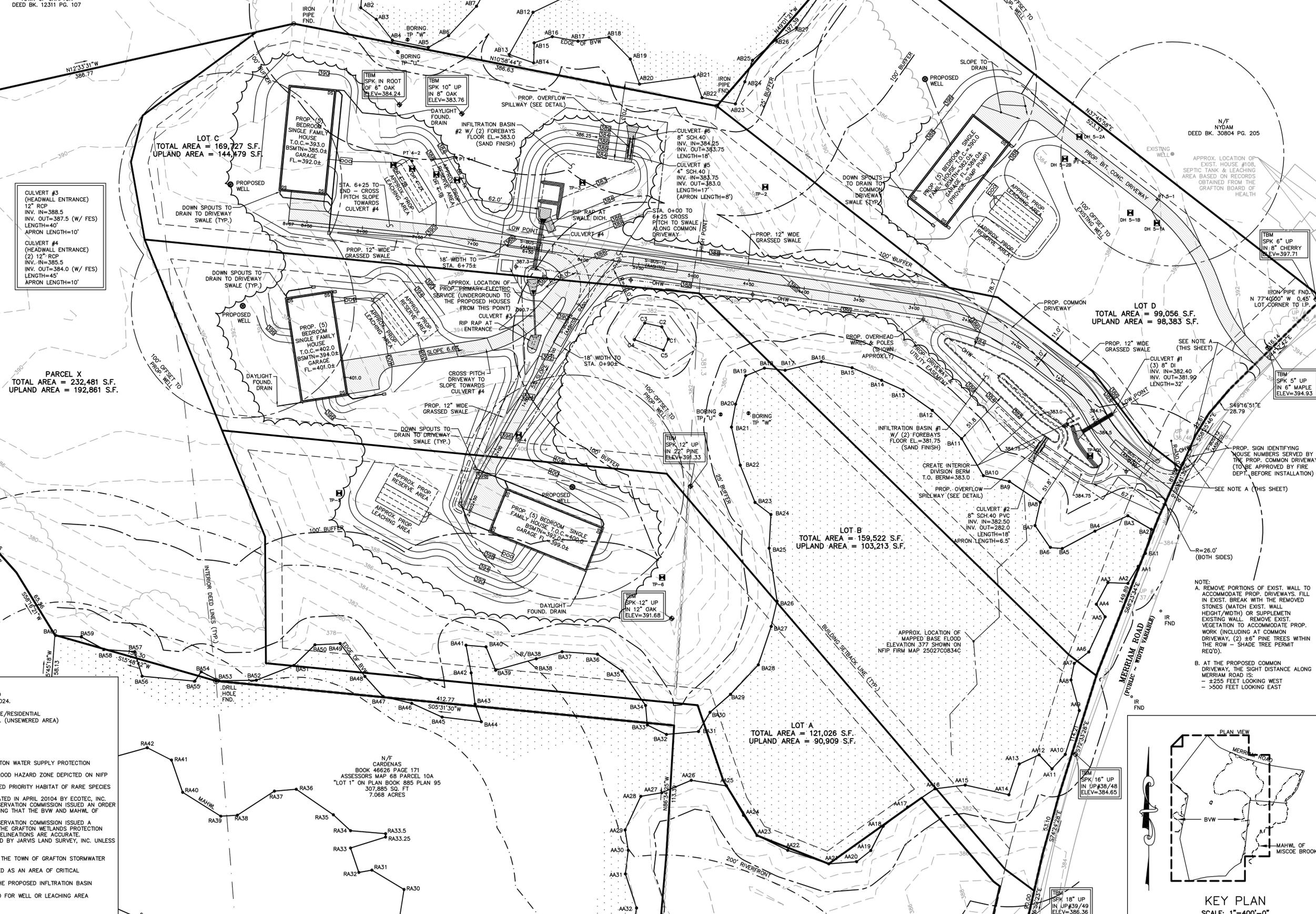
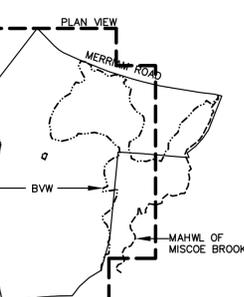
CULVERT #3
(HEADWALL ENTRANCE)
12" RCP
INV. IN=388.5
INV. OUT=387.5 (W/ FES)
LENGTH=40'
APRON LENGTH=10'

CULVERT #4
(HEADWALL ENTRANCE)
(2) 12" RCP
INV. IN=385.5
INV. OUT=384.0 (W/ FES)
LENGTH=45'
APRON LENGTH=10'

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NOTE:
A. REMOVE PORTIONS OF EXIST. WALL TO ACCOMMODATE PROP. DRIVEWAYS. FILL IN EXIST. BREAK WITH THE REMOVED STONES (MATCH EXIST. WALL HEIGHT/WIDTH) OR SUPPLEMENT EXISTING WALL. REMOVE EXIST. VEGETATION TO ACCOMMODATE PROP. WORK (INCLUDING AT COMMON DRIVEWAY). (2) ±6" PINE TREES WITHIN THE ROW - SHADE TREE PERMIT REQ'D).

B. AT THE PROPOSED COMMON DRIVEWAY, THE SIGHT DISTANCE ALONG MERRIAM ROAD IS:
- ±255 FEET LOOKING WEST
- >500 FEET LOOKING EAST



N/F
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DEED BK. 12311 PG. 107

N/F
TOWN OF GRAFTON
DEED BK. 12311 PG. 107

IRON PIPE FND.
N 82°46'23" E 0.34'
LOT CORNER TO I.P.



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243 PLEASANT STREET
S. YARMOUTH MA 02864

OWNER:
MARCOT CHURCHILL
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S. YARMOUTH MA 02864

PROPOSED LOT DEVELOPMENT PLAN
IN GRAFTON, MASSACHUSETTS
114 MERRIAM ROAD

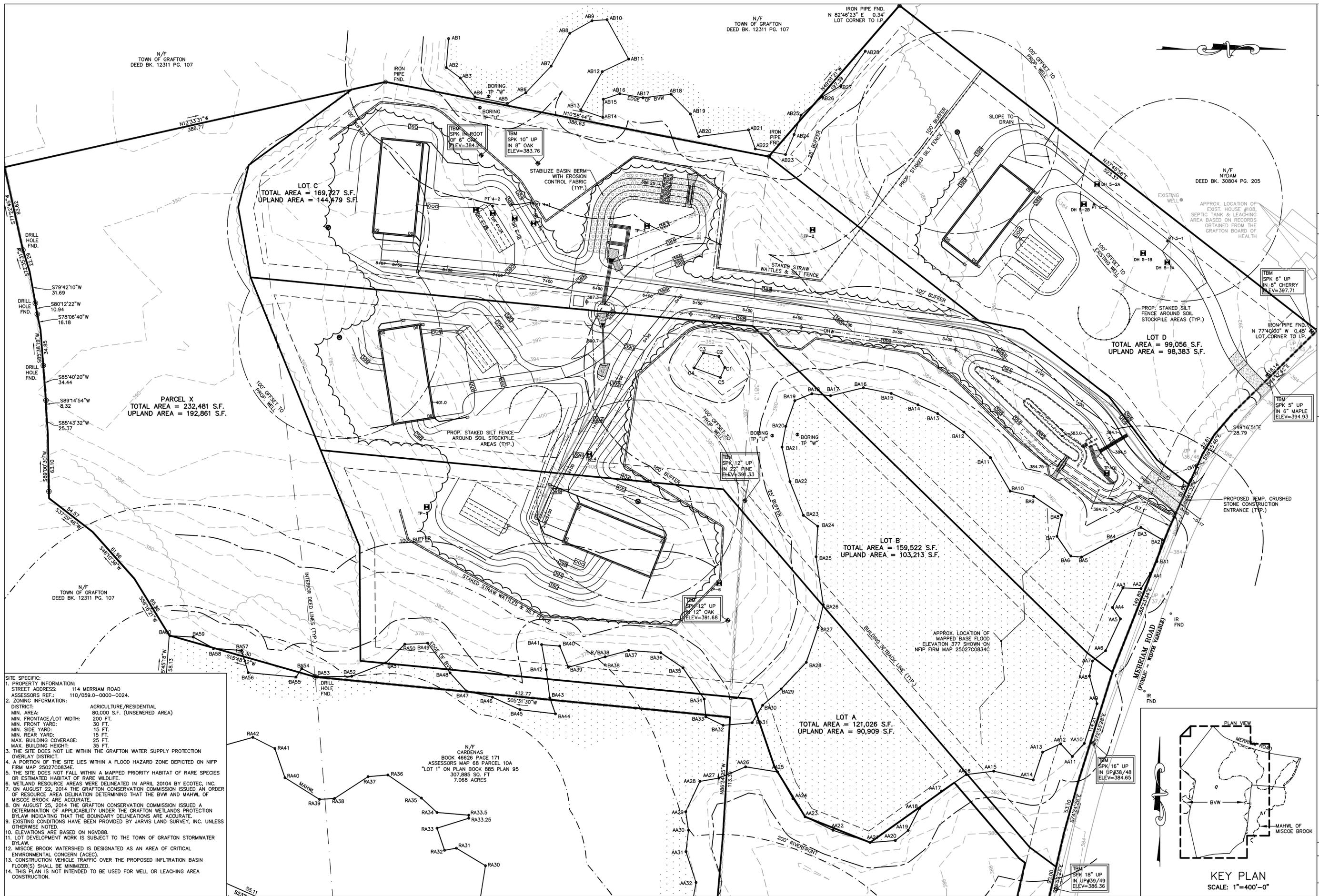
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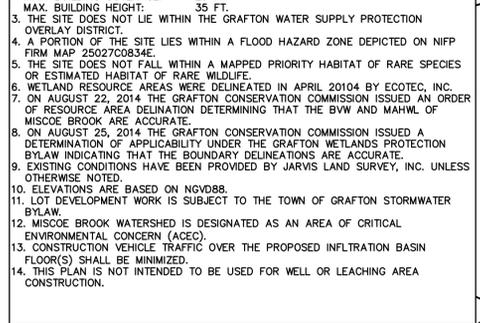
PROPOSED LOT DEVELOPMENT PLAN

SHEET 3 OF 7

116C02



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ASSESSORS REF.: 110/059.0-0000-0024.
 - ZONING INFORMATION:
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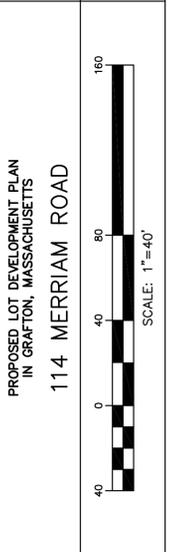


NO.	REVISION	DATE
1	COMMON DRIVEWAY REV.	3/27/15
2	COMMON DRIVEWAY RECONFIG.	4/15/15

OWNER: FREDERIC CHURCHILL
243 PLEASANT STREET
S. YARMOUTH MA 02864

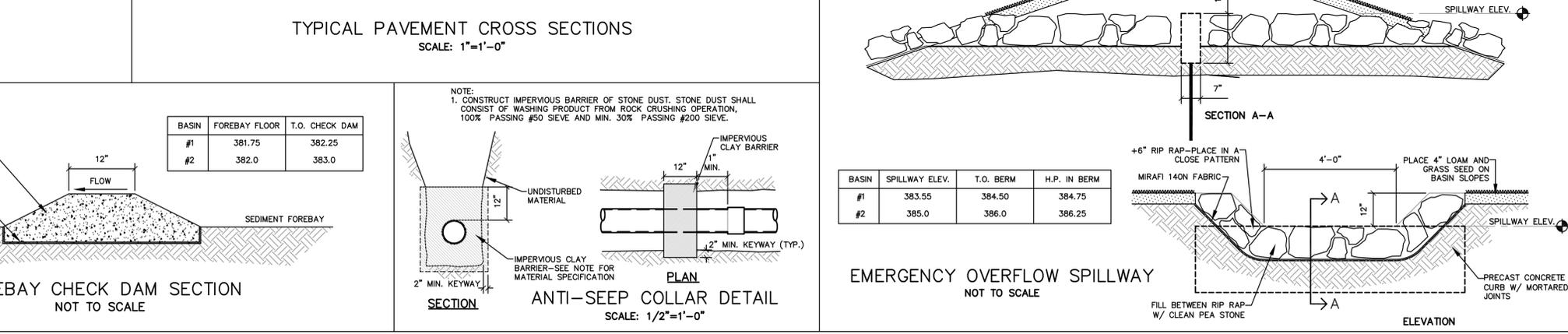
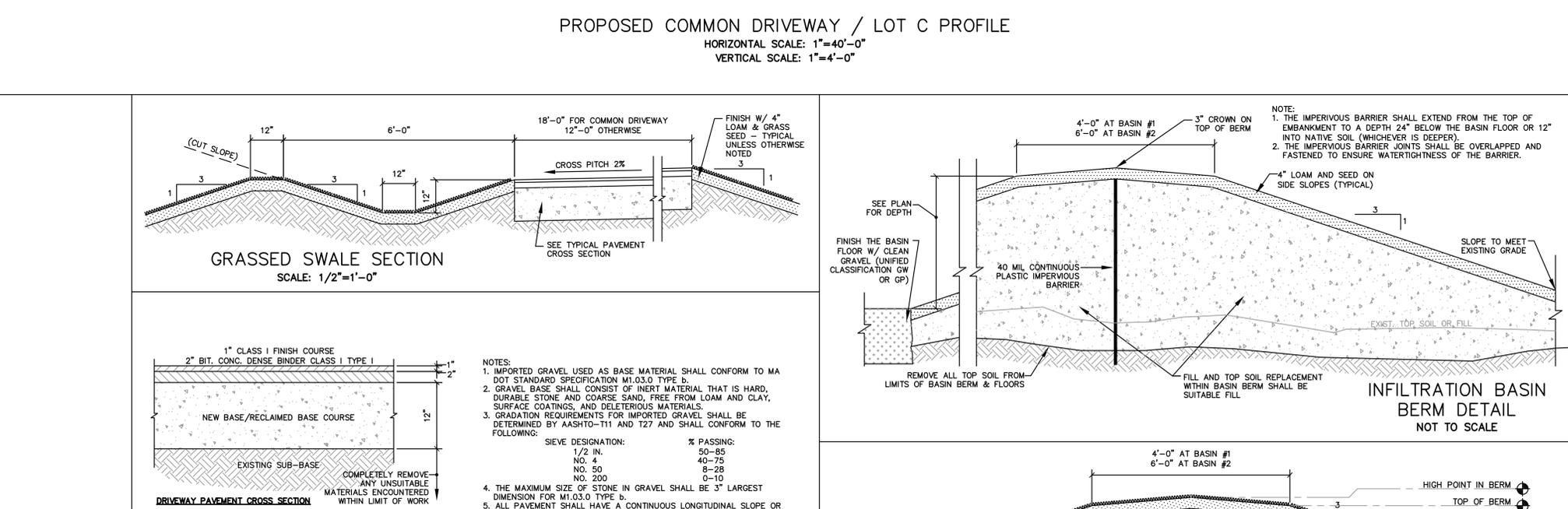
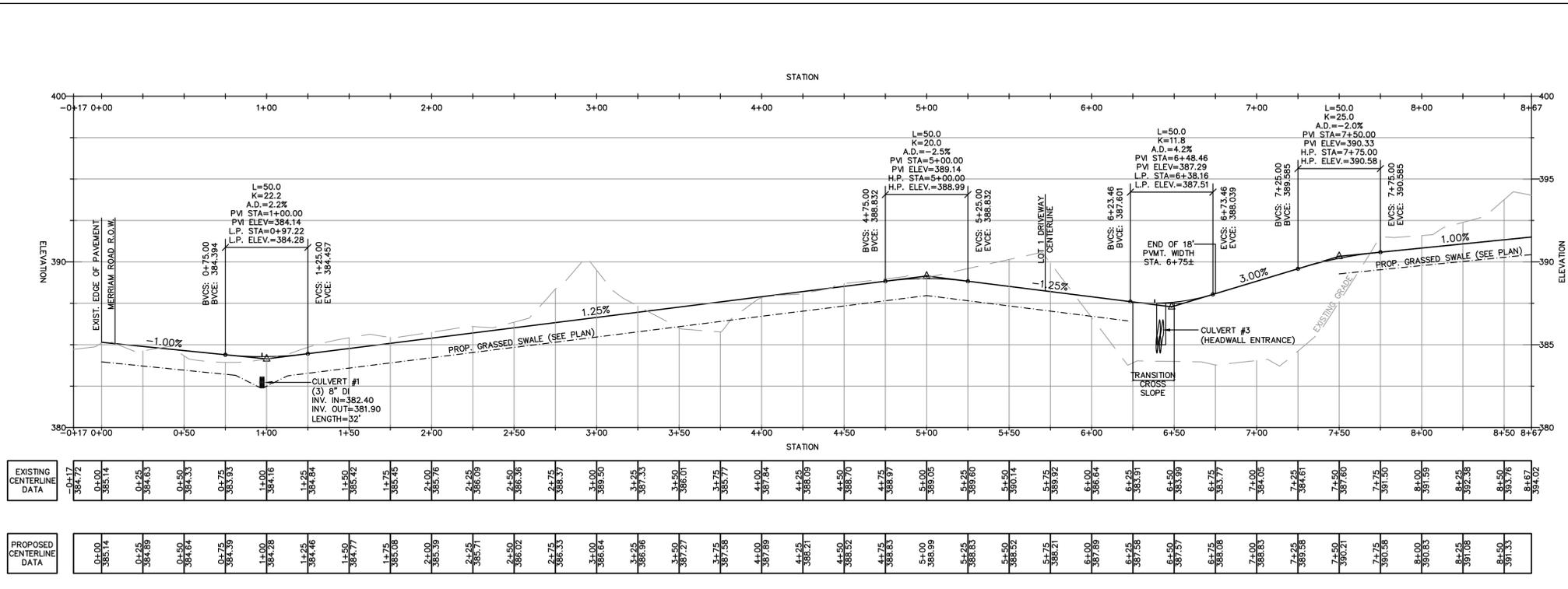
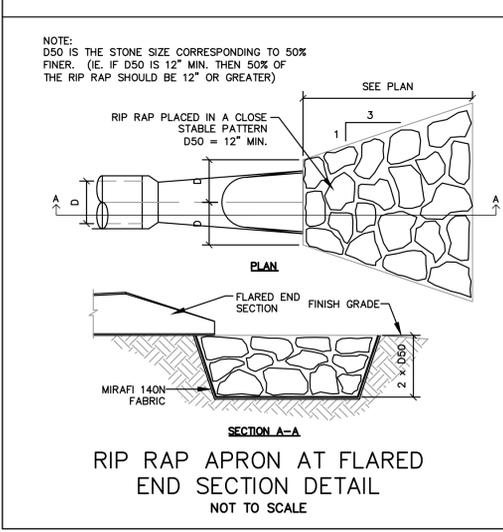
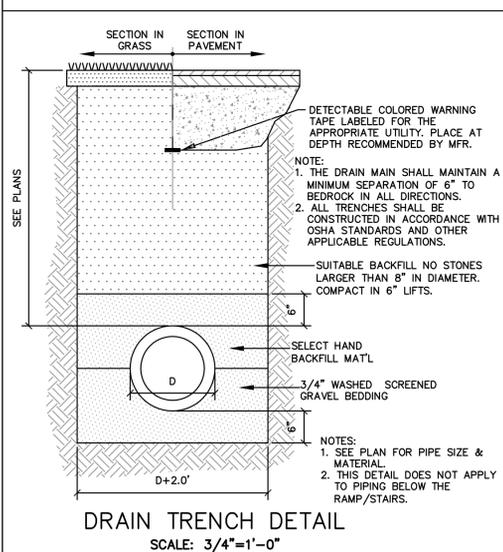
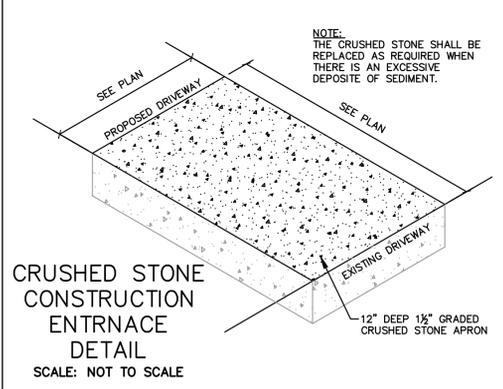
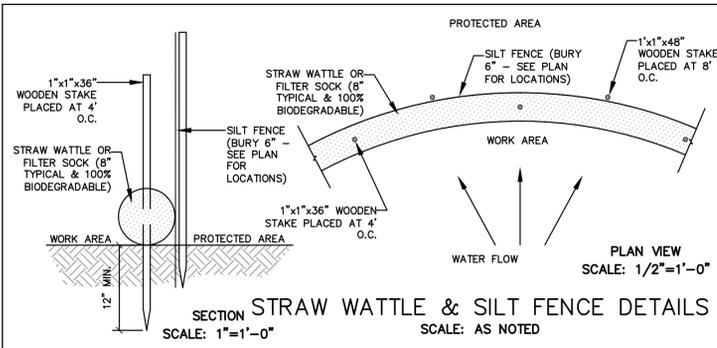
APPLICANT: FREDERIC CHURCHILL
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S. YARMOUTH MA 02864

PROPOSED LOT DEVELOPMENT PLAN
IN GRAFTON, MASSACHUSETTS
114 MERRIAM ROAD



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DATE: NOVEMBER 18, 2014
EROSION CONTROL & STORMWATER POLLUTION PREVENTION PLAN
SHEET 4 OF 7



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DATE: NOVEMBER 18, 2014

PROFILE, DETAILS & NOTES

SHEET 5 OF 7

OWNER: FREDERIC & MARGOT CHURCHILL
243 PLEASANT STREET
S. YARMOUTH MA 02864

APPLICANT: FREDERIC CHURCHILL
243 PLEASANT STREET
S. YARMOUTH MA 02864

PROPOSED LOT DEVELOPMENT PLAN
IN GRAFTON, MASSACHUSETTS
114 MERRIAM ROAD

NO. 1
REVISION

DATE: 5/27/15

NO. 2
COMMON DRIVEWAY RECONFIG. 4/16/15

DATE: 4/16/15

5.3. THE CONTRACTOR MUST COMPLY WITH ANY CORRECTIVE ACTIONS REQUIRED BY EPA AS A RESULT OF PERMIT VIOLATIONS FOUND DURING AN INSPECTION CARRIED OUT UNDER PART 4.2.

5.4. FOR EACH CORRECTIVE ACTION TAKEN IN ACCORDANCE WITH THIS PART, THE CONTRACTOR MUST COMPLETE A CORRECTIVE ACTION REPORT, WHICH INCLUDES THE APPLICABLE INFORMATION IN PARTS 5.4.1 AND 5.4.2. NOTE THAT THESE REPORTS MUST BE MAINTAINED IN THE RECORDS BUT DO NOT NEED TO BE PROVIDED TO EPA EXCEPT UPON REQUEST.

5.4.1. WITHIN 24 HOURS OF DISCOVERING THE OCCURRENCE OF ONE OF THE TRIGGERING CONDITIONS IN PART 5.2.1 AT THE SITE, THE CONTRACTOR MUST COMPLETE A REPORT OF THE FOLLOWING:

5.4.1.1 WHICH CONDITION WAS IDENTIFIED AT THE SITE;

5.4.1.2 THE NATURE OF THE CONDITION IDENTIFIED; AND

5.4.1.3 THE DATE AND TIME OF THE CONDITION IDENTIFIED AND HOW IT WAS IDENTIFIED.

5.4.2. WITHIN 7 CALENDAR DAYS OF DISCOVERING THE OCCURRENCE OF ONE OF THE TRIGGERING CONDITIONS IN PART 5.2.1 AT THE SITE, THE CONTRACTOR MUST COMPLETE A REPORT OF THE FOLLOWING:

5.4.2.1 ANY FOLLOW-UP ACTIONS TAKEN TO REVIEW THE DESIGN, INSTALLATION, AND MAINTENANCE OF STORMWATER CONTROLS, INCLUDING THE DATES SUCH ACTIONS OCCURRED;

5.4.2.2 A SUMMARY OF STORMWATER CONTROL MODIFICATIONS TAKEN OR TO BE TAKEN, INCLUDING A SCHEDULE OF ACTIVITIES NECESSARY TO IMPLEMENT CHANGES, AND THE DATE THE MODIFICATIONS ARE COMPLETED OR EXPECTED TO BE COMPLETED; AND

5.4.2.3 NOTICE OF WHETHER SWPPP MODIFICATIONS ARE REQUIRED AS A RESULT OF THE CONDITION IDENTIFIED OR CORRECTIVE ACTION.

5.4.3. SIGNATURE REQUIREMENTS. EACH CORRECTIVE ACTION REPORT MUST BE SIGNED AND CERTIFIED IN ACCORDANCE WITH APPENDIX I, PART 1.11 OF THE COP.

5.4.4. RECORDEKEEPING REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO KEEP A CURRENT COPY OF ALL CORRECTIVE ACTION REPORTS AT THE SITE OR AT AN EASILY ACCESSIBLE LOCATION SO THAT IT CAN BE MADE AVAILABLE AT THE TIME OF AN ON-SITE INSPECTION OR UPON REQUEST BY EPA. FOR PURPOSES OF THE PERMIT, THE CORRECTIVE ACTION REPORTS MAY BE KEPT ELECTRONICALLY IF THE RECORDS ARE:

5.4.4.1 IN A FORMAT THAT CAN BE READ IN A SIMILAR MANNER AS A PAPER RECORD;

5.4.4.2 LEGALLY DEPENDABLE WITH NO LESS EVIDENTIARY VALUE THAN THEIR PAPER EQUIVALENT; AND

5.4.4.3 ACCESSIBLE TO THE INSPECTOR DURING AN INSPECTION TO THE SAME EXTENT AS A PAPER COPY STORED AT THE SITE WOULD BE, IF THE RECORDS WERE STORED IN PAPER FORM.

5.4.5. ALL CORRECTIVE ACTION REPORTS COMPLETED FOR THIS PART MUST BE RETAINED FOR AT LEAST 3 YEARS FROM THE DATE THAT THE PERMIT COVERAGE EXPRES OR IS TERMINATED.

PART 6:

PRIOR TO THE COMMENCEMENT OF EARTH-DISTURBING ACTIVITIES OR POLLUTANT-GENERATING ACTIVITIES, WHICHEVER OCCURS FIRST, THE CONTRACTOR MUST ENSURE THAT THE FOLLOWING PERSONNEL UNDERSTAND THE REQUIREMENTS OF THE PERMIT AND THEIR SPECIFIC RESPONSIBILITIES WITH RESPECT TO THOSE REQUIREMENTS:

A. PERSONNEL WHO ARE RESPONSIBLE FOR THE DESIGN, INSTALLATION, MAINTENANCE, AND/OR REPAIR OF STORMWATER CONTROLS (INCLUDING POLLUTION PREVENTION MEASURES);

B. PERSONNEL RESPONSIBLE FOR THE APPLICATION AND STORAGE OF TREATMENT CHEMICALS (IF APPLICABLE);

C. PERSONNEL WHO ARE RESPONSIBLE FOR CONDUCTING INSPECTIONS AS REQUIRED IN PART 4.1.1; AND

D. PERSONNEL WHO ARE RESPONSIBLE FOR TAKING CORRECTIVE ACTIONS AS REQUIRED IN PART 5.

THE CONTRACTOR IS RESPONSIBLE FOR ALL ACTIVITIES ON THE SITE COMPLY WITH THE REQUIREMENTS OF THE PERMIT. THE CONTRACTOR IS NOT REQUIRED TO PROVIDE OR DOCUMENT FORMAL TRAINING FOR SUBCONTRACTORS OR OTHER OUTSIDE SERVICE PROVIDERS, BUT THE CONTRACTOR MUST ENSURE THAT SUCH PERSONNEL UNDERSTAND ANY REQUIREMENTS OF THE PERMIT THAT MAY BE AFFECTED BY THE WORK THEY ARE SUBCONTRACTED TO PERFORM. AT A MINIMUM, PERSONNEL MUST BE TRAINED TO UNDERSTAND THE FOLLOWING IF RELATED TO THE SCOPE OF THEIR JOB DUTIES (E.G., ONLY PERSONNEL RESPONSIBLE FOR CONDUCTING INSPECTIONS NEED TO UNDERSTAND HOW TO CONDUCT INSPECTIONS):

A. THE LOCATION OF ALL STORMWATER CONTROLS ON THE SITE REQUIRED BY THE PERMIT AND HOW THEY ARE TO BE MAINTAINED;

B. THE PROPER PROCEDURES TO FOLLOW WITH RESPECT TO THE PERMIT'S POLLUTION PREVENTION REQUIREMENTS; AND

C. WHEN AND HOW TO CONDUCT INSPECTIONS, RECORD APPLICABLE FINDINGS, AND TAKE CORRECTIVE ACTIONS.

PART 7:

7.1.1. ALL OPERATORS ASSOCIATED WITH THIS PROJECT MUST DEVELOP A SWPPP IN ACCORDANCE WITH THE COP REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO DEVELOP THE SWPPP PRIOR TO SUBMITTING THE NOI. AT A MINIMUM, THE SWPPP MUST INCLUDE THE INFORMATION REQUIRED IN PART 7.2 AND AS SPECIFIED IN OTHER PARTS OF THE COP. THE CONTRACTOR MUST ALSO DEVELOP THE SWPPP AS REQUIRED IN PART 7.4. THESE PLANS ARE ONLY INTENDED TO BE BUILT UPON BY THE CONTRACTOR TO CREATE A COMPLETE SWPPP. THESE PLANS ARE NOT INTENDED TO SERVE AS A FINISHED OR COMPLETE SWPPP.

THE FOLLOWING IS ONLY A SIMPLIFIED LIST OF REQUIREMENTS TAKEN FROM THE COP. SEE THE COP FOR ALL SWPPP REQUIREMENTS.

7.2. THE SWPPP MUST INCLUDE THE FOLLOWING INFORMATION, AT A MINIMUM.

7.2.1. STORMWATER TEAM IN ACCORDANCE WITH THE COP REQUIREMENTS.

7.2.2. THE NATURE OF THE CONSTRUCTION ACTIVITIES, INCLUDING THE SIZE OF THE PROPERTY (IN ACRES), AND THE TOTAL AREA EXPECTED TO BE DISTURBED BY THE CONSTRUCTION ACTIVITIES (IN ACRES), CONSTRUCTION SUPPORT ACTIVITY AREAS COVERED BY THE PERMIT (SEE PART 1.3.C) AND THE MAXIMUM AREA EXPECTED TO BE DISTURBED AT ANY ONE TIME.

7.2.3. THIS PROPOSED WORK IS NOT PART OF A PUBLIC EMERGENCY.

7.2.4. A LIST OF ALL OTHER OPERATORS WHO WILL BE ENGAGED IN CONSTRUCTION ACTIVITIES AT THE SITE, AND THE AREAS OF THE SITE OVER WHICH EACH OPERATOR HAS CONTROL IN ACCORDANCE WITH THE COP REQUIREMENTS.

7.2.5. THE SWPPP MUST INCLUDE A DESCRIPTION OF THE INTENDED SEQUENCE OF CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE COP REQUIREMENTS FOR THE FOLLOWING ACTIVITIES:

7.2.5.1 INSTALLATION OF STORMWATER CONTROL MEASURES AND WHEN THEY WILL BE MADE OPERATIONAL IN ACCORDANCE WITH THE COP REQUIREMENTS.

7.2.5.2 COMMENCEMENT AND DURATION OF EARTH-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING, MASS GRADING, SITE PREPARATION (I.E., EXCAVATING, CUTTING AND FILLING), FINAL GRADING, AND CREATION OF SOIL AND VEGETATION STOCKPILES REQUIRING STABILIZATION.

7.2.5.3 STABILIZATION, TEMPORARILY OR PERMANENTLY, OF CONSTRUCTION ACTIVITIES ON THE SITE, OR IN DESIGNATED PORTIONS OF THE SITE.

7.2.5.4 TEMPORARY STABILIZATION OF AREAS OF EXPOSED SOIL. THE DATES FOR STABILIZATION MUST REFLECT THE APPLICABLE DEADLINES TO WHICH THE CONTRACTOR IS SUBJECT IN PART 2.2.1; AND

7.2.5.5 REMOVAL OF TEMPORARY STORMWATER CONVEYANCES/CHANNELS AND OTHER STORMWATER CONTROL MEASURES, REMOVAL OF CONSTRUCTION EQUIPMENT AND VEHICLES, AND ANY CESSATION OF ANY POLLUTANT-GENERATING ACTIVITIES.

7.2.6. A LEGIBLE SITE MAP, OR SERIES OF MAPS IN ACCORDANCE WITH THE COP REQUIREMENTS.

7.2.6.1 BOUNDARIES OF THE PROPERTY AND OF THE LOCATIONS WHERE CONSTRUCTION ACTIVITIES WILL OCCUR IN ACCORDANCE WITH THE COP REQUIREMENTS.

7.2.6.2 LOCATIONS OF ALL SURFACE WATERS, INCLUDING WETLANDS, THAT EXIST WITHIN OR IN THE IMMEDIATE VICINITY OF THE SITE. INDICATE WHERE ARE LISTED AS IMPAIRED, AND WHICH ARE IDENTIFIED BY THE STATE, TRIBE, OR EPA AS TIER 2, TIER 2.5, OR TIER 3 WATERS;

7.2.6.3 THE BOUNDARY LINES OF ANY NATURAL BUFFERS PROVIDED CONSISTENT WITH PART 2.1.2.1.A;

7.2.6.4 AREAS OF FEDERALLY-LISTED CRITICAL HABITAT FOR ENDANGERED OR THREATENED SPECIES;

7.2.6.5 TOPOGRAPHY OF THE SITE, EXISTING VEGETATIVE COVER (E.G., FOREST, PASTURE, PAVEMENT, STRUCTURES), AND DRAINAGE PATTERNS(S) OF STORMWATER AND AUTHORIZED NON-STORMWATER FLOW ONTO, OVER, AND FROM THE SITE;

7.2.6.6 STORMWATER AND ALLOWABLE NON-STORMWATER DISCHARGE LOCATIONS IN ACCORDANCE COP REQUIREMENTS.

7.2.6.7 LOCATIONS OF ALL POTENTIAL POLLUTANT-GENERATING ACTIVITIES IDENTIFIED IN PART 7.2.7;

7.2.6.8 LOCATIONS OF STORMWATER CONTROL MEASURES; AND

7.2.6.9 LOCATIONS WHERE POLYMERS, FLOCCULANTS, OR OTHER TREATMENT CHEMICALS WILL BE USED AND STORED.

7.2.7. A LIST AND DESCRIPTION OF ALL THE POLLUTANT-GENERATING ACTIVITIES ON THE SITE IN ACCORDANCE WITH THE COP REQUIREMENTS.

7.2.7.2 INFORMATION FOR EACH POLLUTANT-GENERATING ACTIVITY IN ACCORDANCE WITH THE COP REQUIREMENTS.

7.2.8. ALL SOURCES OF ALLOWABLE NON-STORMWATER DISCHARGES LISTED IN PART 1.3.D IN ACCORDANCE WITH THE COP REQUIREMENTS.

7.2.9. IF COMPLIANCE WITH 2.1.2.1 IS REQUIRED BECAUSE A SURFACE WATER IS LOCATED WITHIN 50 FEET OF THE PROJECT'S EARTH DISTURBANCE, THE CONTRACTOR MUST DESCRIBE WHICH COMPLIANCE ALTERNATIVE THE CONTRACTOR HAS SELECTED FOR THE SITE, AND COMPLY WITH ANY ADDITIONAL REQUIREMENTS TO PROVIDE DOCUMENTATION IN PART 2.1.2.1.

7.2.10.1 ALL STORMWATER CONTROL MEASURES THAT ARE OR WILL BE INSTALLED ON SITE IN ACCORDANCE WITH THE COP REQUIREMENTS.

7.2.10.2 INFORMATION REGARDING THE USE OF POLYMERS, FLOCCULANTS, OR OTHER TREATMENT CHEMICALS AT THE SITE, IN ACCORDANCE WITH THE COP REQUIREMENTS.

7.2.10.3 DESCRIBE THE SPECIFIC VEGETATIVE AND/OR NON-VEGETATIVE PRACTICES THAT WILL BE USED TO COMPLY WITH THE REQUIREMENTS IN PART 2.2 IN ACCORDANCE WITH THE COP REQUIREMENTS.

7.2.11 THE SWPPP MUST DESCRIBE PROCEDURES TO PREVENT AND RESPOND TO SPILLS AND LEAKS CONSISTENT WITH PART 2.3 IN ACCORDANCE WITH THE COP REQUIREMENTS.

7.2.11.2 PROCEDURES FOR HOW TO HANDLE AND DISPOSE OF ALL WASTES GENERATED AT THE SITE IN ACCORDANCE WITH THE COP REQUIREMENTS.

7.2.12. PROCEDURES TO FOLLOW FOR MAINTAINING THE STORMWATER CONTROL MEASURES, CONDUCTING SITE INSPECTIONS, AND, WHERE NECESSARY, TAKING CORRECTIVE ACTIONS, IN ACCORDANCE WITH THE COP REQUIREMENTS.

7.2.12.1 PERSONNEL RESPONSIBLE FOR CONDUCTING INSPECTIONS;

7.2.12.2 THE INSPECTION SCHEDULE TO BE FOLLOWED AND OTHER PERTINENT INFORMATION IN ACCORDANCE WITH THE COP REQUIREMENTS.

7.2.12.3 IF INSPECTION FREQUENCY IS REDUCED, PROVIDE INFORMATION IN ACCORDANCE WITH THE COP REQUIREMENTS.

7.2.12.4 ANY INSPECTION OR MAINTENANCE CHECKLISTS OR OTHER FORMS THAT WILL BE USED.

7.2.13. DOCUMENT THAT PERSONNEL WERE TRAINED IN ACCORDANCE WITH PART 6.

7.2.14. DOCUMENTATION OF COMPLIANCE WITH OTHER FEDERAL REQUIREMENTS.

7.2.14.1 DOCUMENTATION SUPPORTING THE DETERMINATION WITH RESPECT TO PART 1.1.E AND APPENDIX D OF THE COP.

7.2.14.2 DOCUMENTATION REQUIRED BY APPENDIX E OF THE COP IN RELATION TO POTENTIAL IMPACTS TO HISTORIC PROPERTIES.

7.2.14.3 SAFE DRINKING WATER ACT UNDERGROUND INJECTION CONTROL (UIC) REQUIREMENTS FOR CERTAIN SUBSURFACE STORMWATER CONTROLS (INFILTRATION TRENCHES, ANY DEVICE DESIGNATED TO CAPTURE AND INFILTRATE STORMWATER, AND DRYWELLS) IN ACCORDANCE WITH THE COP REQUIREMENTS.

7.2.15. THE CONTRACTOR/OPERATOR MUST SIGN AND DATE THE SWPPP IN ACCORDANCE WITH APPENDIX I, PART 1.11, OF THE COP.

7.2.16. ONCE NOTIFIED OF COVERAGE UNDER THE PERMIT, THE CONTRACTOR MUST INCLUDE THE FOLLOWING DOCUMENTS AS PART OF THE SWPPP:

7.2.16.1 A COPY OF THE NOI SUBMITTED TO EPA ALONG WITH ANY CORRESPONDENCE EXCHANGED BETWEEN THE CONTRACTOR AND EPA RELATED TO COVERAGE UNDER THE PERMIT;

7.2.16.2 A COPY OF THE ACKNOWLEDGMENT LETTER THE CONTRACTOR RECEIVES FROM THE NOI PROCESSING CENTER OR ENVI SYSTEM ASSIGNING THE PERMIT TRACKING NUMBER;

7.2.16.3 A COPY OF THE PERMIT (AN ELECTRONIC COPY EASILY AVAILABLE TO THE STORMWATER TEAM IS ALSO ACCEPTABLE).

7.3. THE CONTRACTOR IS REQUIRED TO KEEP A CURRENT COPY OF THE SWPPP AT THE SITE OR AT AN EASILY ACCESSIBLE LOCATION SO THAT IT CAN BE MADE AVAILABLE IN ACCORDANCE WITH THE COP REQUIREMENTS.

7.4.1. THE CONTRACTOR MUST MODIFY THE SWPPP, INCLUDING THE SITE MAP(S), IN RESPONSE TO ANY OF THE FOLLOWING:

7.4.1.1 WHENEVER NEW OPERATORS BECOME ACTIVE IN CONSTRUCTION ACTIVITIES ON THE SITE, OR CHANGES ARE MADE TO THE CONSTRUCTION PLANS, STORMWATER CONTROL MEASURES, POLLUTION PREVENTION MEASURES, OR OTHER ACTIVITIES AT THE SITE THAT ARE NO LONGER ACCURATELY REFLECTED IN THE SWPPP;

7.4.1.2 TO REFLECT AREAS ON THE SITE MAP WHERE OPERATIONAL CONTROL HAS BEEN TRANSFERRED (AND THE DATE OF TRANSFER) SINCE INITIATING PERMIT COVERAGE;

7.4.1.3 IF INSPECTIONS OR INVESTIGATIONS BY THE SITE STAFF, OR BY LOCAL, STATE, TRIBAL, OR FEDERAL OFFICIALS DETERMINE THAT SWPPP MODIFICATIONS ARE NECESSARY FOR COMPLIANCE WITH THE PERMIT;

7.4.1.4 WHERE EPA DETERMINES IT IS NECESSARY TO IMPOSE ADDITIONAL REQUIREMENTS ON THE DISCHARGE, THE FOLLOWING MUST BE INCLUDED IN THE SWPPP:

A. A COPY OF ANY CORRESPONDENCE DESCRIBING SUCH REQUIREMENTS; AND

B. A DESCRIPTION OF THE STORMWATER CONTROL MEASURES THAT WILL BE USED TO MEET SUCH REQUIREMENTS.

7.4.1.5 TO REFLECT ANY REVISIONS TO APPLICABLE FEDERAL, STATE, TRIBAL, OR LOCAL REQUIREMENTS THAT AFFECT THE STORMWATER CONTROL MEASURES IMPLEMENTED AT THE SITE; AND

7.4.1.6 IF APPLICABLE, IF THERE ARE CHANGES IN CHEMICAL TREATMENT SYSTEMS OR CHEMICALLY ENHANCED STORMWATER CONTROL IS MADE, INCLUDING USE OF A DIFFERENT TREATMENT CHEMICAL, DIFFERENT DOSAGE RATE, OR DIFFERENT AREA OF APPLICATION.

7.4.2. THE CONTRACTOR MUST CONDUCT INSPECTIONS OF THE SWPPP WITHIN 7 CALENDAR DAYS FOLLOWING THE OCCURRENCE OF ANY OF THE CONDITIONS LISTED IN PART 7.4.1.

7.4.3. THE CONTRACTOR IS REQUIRED TO MAINTAIN RECORDS SHOWING THE DATES OF ALL SWPPP MODIFICATIONS. THE RECORDS MUST INCLUDE THE NAME OF THE PERSON AUTHORIZING EACH CHANGE (SEE PART 7.2.15 ABOVE) AND A BRIEF SUMMARY OF ALL CHANGES.

7.4.4. ALL MODIFICATIONS MADE TO THE SWPPP CONSISTENT WITH PART 7.4 MUST BE AUTHORIZED BY A PERSON IDENTIFIED IN APPENDIX I, PART 1.11 OF THE COP.

7.4.5. UPON DETERMINING THAT A MODIFICATION TO THE SWPPP IS REQUIRED, IF THERE ARE MULTIPLE OPERATORS COVERED UNDER THE PERMIT, THE CONTRACTOR MUST IMMEDIATELY NOTIFY ANY OPERATORS WHO MAY BE IMPACTED BY THE CHANGE TO THE SWPPP.

PART 8:

UNLIL TERMINATING COVERAGE UNDER THE PERMIT, THE CONTRACTOR IS REQUIRED TO COMPLY WITH ALL CONDITIONS AND EFFLUENT LIMITATIONS IN THE PERMIT. TO TERMINATE PERMIT COVERAGE, THE CONTRACTOR MUST SUBMIT TO EPA A COMPLETE AND ACCURATE NOTICE OF TERMINATION (NOT), WHICH CERTIFIES THAT ALL APPLICABLE CONSTRUCTION PERMITS ARE MET.

8.1. THE FOLLOWING IS REQUIRED IN THE NOI:

8.1.1. NPDES PERMIT TRACKING NUMBER PROVIDED BY EPA WHEN COVERAGE UNDER THE PERMIT WAS RECEIVED;

8.1.2. BASIS FOR SUBMISSION OF THE NOI (SEE PART 8.2);

8.1.3. OPERATOR CONTACT INFORMATION;

8.1.4. NAME OF PROJECT AND ADDRESS (OR A DESCRIPTION OF LOCATION IF NO STREET ADDRESS IS AVAILABLE); AND

8.1.5. NOTIFICATION

8.2. THE CONTRACTOR MAY TERMINATE PERMIT COVERAGE ONLY IF ONE OF THE FOLLOWING CONDITIONS OCCURS AT THE SITE:

8.2.1. THE CONTRACTOR HAS COMPLETED ALL EARTH-DISTURBING ACTIVITIES AND ALL APPLICABLE CONSTRUCTION SUPPORT ACTIVITIES COVERED BY THE PERMIT (SEE PART 1.3.C), AND THE CONTRACTOR HAS MET THE FOLLOWING REQUIREMENTS:

8.2.1.1 FOR ANY AREAS THAT (1) WERE DISTURBED DURING CONSTRUCTION, (2) ARE NOT COVERED OVER BY PERMANENT STRUCTURES, AND (3) OVER WHICH THE CONTRACTOR HAD CONTROL DURING THE CONSTRUCTION ACTIVITIES, THE CONTRACTOR HAS MET THE REQUIREMENTS FOR FINAL VEGETATIVE OR NON-VEGETATIVE STABILIZATION IN PART 2.2.2;

8.2.1.2 THE CONTRACTOR HAS REMOVED AND PROPERLY DISPOSED OF ALL CONSTRUCTION MATERIALS, WASTE AND WASTE HANDLING DEVICES, AND HAVE REMOVED ALL EQUIPMENT AND VEHICLES THAT WERE USED DURING CONSTRUCTION, UNLESS INTENDED FOR LONG-TERM USE FOLLOWING THE TERMINATION OF PERMIT COVERAGE;

8.2.1.3 THE CONTRACTOR HAS REMOVED ALL STORMWATER CONTROL MEASURES THAT WERE INSTALLED AND MAINTAINED DURING CONSTRUCTION, EXCEPT THOSE THAT ARE INTENDED FOR LONG-TERM USE FOLLOWING THE TERMINATION OF PERMIT COVERAGE OR FOR HOUSE AND/OR RECREATION;

8.2.1.4 THE CONTRACTOR HAS REMOVED ALL POTENTIAL POLLUTANTS AND POLLUTANT-GENERATING ACTIVITIES ASSOCIATED WITH CONSTRUCTION, UNLESS NEEDED FOR LONG-TERM USE FOLLOWING THE TERMINATION OF PERMIT COVERAGE; OR

8.2.1.5 THE CONTRACTOR HAS TRANSFERRED CONTROL OF ALL AREAS OF THE SITE FOR WHICH THE CONTRACTOR IS RESPONSIBLE UNDER THE PERMIT TO ANOTHER OPERATOR, AND THAT OPERATOR HAS SUBMITTED AN NOI AND OBTAINED COVERAGE UNDER THE PERMIT; OR

8.2.3. COVERAGE UNDER AN INDIVIDUAL OR ALTERNATIVE NPDES PERMIT HAS BEEN OBTAINED.

8.3. THE CONTRACTOR IS REQUIRED TO USE EPA'S ELECTRONIC NOI SYSTEM, OR "ENVI SYSTEM", TO PREPARE AND SUBMIT THE NOI. THE ELECTRONIC NOI FORM THE CONTRACTOR IS REQUIRED TO COMPLETE IS FOUND AT: [WWW.EPA.GOV/NPDES/STORMWATER/COP/ENOI](http://www.epa.gov/npdes/stormwater/cop/enoi). THE CONTRACTOR WILL USE THE NOI TRACKING NUMBER (I.E., THE EPA NUMBER THE CONTRACTOR WERE ASSIGNED UPON AUTHORIZATION UNDER THE PERMIT) TO UPLOAD THE FILLABLE NOI FORM, WHICH WILL ENSURE THAT EPA PROPERLY RECORDS THE TERMINATION OF COVERAGE. IF THE CONTRACTOR HAS A PROBLEM WITH THE USE OF THE ENVI SYSTEM, CONTACT THE EPA REGIONAL OFFICE THAT CORRESPONDS TO THE SITE. THE CONTRACTOR IS GIVEN APPROVAL BY THE EPA REGIONAL OFFICE TO USE A PAPER NOI, THE CONTRACTOR MUST COMPLETE THE NOI IN APPROXIMATELY THE FOLLOWING MANNER:

8.4. THE CONTRACTOR MUST SUBMIT THE NOI WITHIN 30 CALENDAR DAYS AFTER ANY ONE OF THE TRIGGERING CONDITIONS IN PART 8.2 OCCUR.

8.5. THE AUTHORITY TO DISCHARGE UNDER THE PERMIT TERMINATES AT MIDNIGHT OF THE CALENDAR DAY THAT A COMPLETE NOI IS PROCESSED AND POSTED ON EPA'S WEBSITE ([WWW.EPA.GOV/NPDES/STORMWATER/COP/NOSEARCH](http://www.epa.gov/npdes/stormwater/cop/nosearch)).

PART 9:

THE PROVISIONS IN THIS PART PROVIDE MODIFICATIONS OR ADDITIONS TO THE APPLICABLE CONDITIONS OF THE PERMIT TO STATES, INDIAN TRIBES, AND AREAS SUBJECT TO CONSTRUCTION BY FEDERAL OPERATORS NOT INCLUDED IN THIS PART DO NOT HAVE ANY MODIFICATIONS OR ADDITIONS TO THE APPLICABLE CONDITIONS OF THE PERMIT.

9.1.1. MARI2000D: COMMONWEALTH OF MASSACHUSETTS (EXCEPT INDIAN COUNTRY).

9.1.1.1 COMPLETELY WITH THE MASSACHUSETTS CLEAN WATERS ACT (CH. 21, SS. 26-53).

9.1.1.2 COMPLETELY WITH THE CONDITIONS IN 314 CMR 4.00 - MASSACHUSETTS SURFACE WATER QUALITY STANDARDS.

9.1.1.3 COMPLETELY WITH THE CONDITIONS IN 314 CMR 3.00 - MASSACHUSETTS SURFACE WATER DISCHARGE PERMIT PROGRAM.

9.1.1.4 COMPLETELY WITH THE WETLANDS PROTECTION ACT (CH. 131 S. 40) AND ITS REGULATIONS, 310 CMR 10.00 AND 310 CMR 10.10, AND ANY CONDITIONS ISSUED BY A CONSERVATION COMMISSION OR A SUPERSEDING ORDER OF CONDITIONS ISSUED BY THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION.

9.1.1.5 COMPLETELY WITH THE MASSACHUSETTS CLEAN WATERS ACT, MGL CH. 21, SS. 26-53 AND THE WETLANDS PROTECTION ACT, CH. 131, S. 40.

9.1.1.6 COMPLETELY WITH THE CONDITIONS IN 314 CMR 9.00 - WATER QUALITY CERTIFICATION FOR DISCHARGES OF DREDGED OR FILL MATERIAL, DREDGED, AND DREDGED MATERIAL DISPOSAL IN WATERS OF THE UNITED STATES WITHIN THE COMMONWEALTH.

9.1.1.7 COMPLETELY WITH THE MASSACHUSETTS ENDANGERED SPECIES ACT (MESA), MGL CH. 313A AND REGULATIONS AT 321 CMR 10.00 AND ANY ACTIONS UNDERTAKEN TO COMPLY WITH THIS STORMWATER GENERAL PERMIT SHALL NOT RESULT IN NON-COMPLIANCE WITH THE MESA.

9.1.1.8 ACTIVITIES COVERED UNDER THIS GENERAL PERMIT SHALL NOT INTERFERE WITH THE IMPLEMENTATION OF MOSQUITO CONTROL WORK CONDUCTED IN ACCORDANCE WITH CHAPTER 252 INCLUDING S. 5A THEREUNDER AND MASSDEP GUIDELINE NUMBER BRP 001-02, WEST NILE VIRUS APPLICATION OF PESTICIDES TO WETLAND RESERVE AREAS AND BUFFER ZONES, AND PUBLIC WATER SUPPLIES.

9.1.1.9 THE DEPARTMENT MAY REQUEST A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND THE PERMITTEE IS REQUIRED TO SUBMIT THE SWPPP TO THE DEPARTMENT WITHIN 45 DAYS OF SUCH REQUEST. THE DEPARTMENT MAY CONDUCT AN INSPECTION OF ANY FACILITY COVERED BY THE PERMIT TO DETERMINE COMPLIANCE WITH STATE LAW REQUIREMENTS, INCLUDING STATE WATER QUALITY STANDARDS. THE DEPARTMENT MAY ENFORCE ITS CERTIFICATION CONDITIONS.

9.1.1.10 THE DEPARTMENT MAY REQUIRE THE PERMIT HOLDER TO MONITOR DURING THE PERMIT TERM IF MONITORING IS NECESSARY FOR THE PROTECTION OF PUBLIC HEALTH OR THE ENVIRONMENT AS DESIGNATED UNDER THE PERMIT AUTHORITY AT 314 CMR 3.00.

9.1.1.11 THE DEPARTMENT MAY REQUIRE THE PERMIT HOLDER TO PROVIDE MEASURABLE VERIFICATION OF THE EFFECTIVENESS OF BEST MANAGEMENT PRACTICES (BMPs) AND OTHER CONTROL MEASURES USED IN THE STORMWATER MANAGEMENT PROGRAM, INCLUDING WATER QUALITY MONITORING.

9.1.1.12 THE DEPARTMENT HAS DETERMINED THAT COMPLIANCE WITH THE PERMIT DOES NOT PROTECT THE PERMIT HOLDER FROM ENFORCEMENT ACTIONS DEEMED NECESSARY BY THE DEPARTMENT UNDER ITS ASSOCIATED REGULATIONS TO ADDRESS AN IMMINENT THREAT TO PUBLIC HEALTH OR A SIGNIFICANT ADVERSE ENVIRONMENTAL IMPACT WHICH RESULTS IN A VIOLATION OF THE MASSACHUSETTS CLEAN WATERS ACT, CH. 21, SS. 26-53.

9.1.1.13 THE DEPARTMENT RESERVES THE RIGHT TO MODIFY THIS 401 WATER QUALITY CERTIFICATION IF ANY CHANGES TO FEDERAL REGULATIONS, OR DELETIONS ARE MADE TO THIS GENERAL PERMIT. IN ADDITION, THE DEPARTMENT RESERVES THE RIGHT TO ADD AND/OR ALTER THE TERMS AND CONDITIONS OF THIS 401 WATER QUALITY CERTIFICATION TO CARRY OUT ITS RESPONSIBILITIES DURING THE TERM OF THIS GENERAL PERMIT WITH RESPECT TO WATER QUALITY, INCLUDING ANY REVISIONS TO 314 CMR 4.00, MASSACHUSETTS SURFACE WATER QUALITY STANDARDS.

9.1.1.14 SHOULD ANY VIOLATION OF THE MASSACHUSETTS SURFACE WATER QUALITY STANDARDS, 314 CMR 4.00, OR THE CONDITIONS OF THIS 401 WATER QUALITY CERTIFICATION OCCUR, THE DEPARTMENT HAS THE RIGHT TO DIRECT THE PERMIT HOLDER TO CORRECT THE VIOLATION(S). THE DEPARTMENT HAS THE RIGHT TO TAKE ANY ACTION AS AUTHORIZED BY THE GENERAL LAWS OF THE COMMONWEALTH TO ADDRESS THE VIOLATION(S) OF THE PERMIT OR THE MASSACHUSETTS CLEAN WATERS ACT AND THE REGULATIONS PROMULGATED THEREUNDER. SUBSTANTIAL CIVIL AND CRIMINAL PENALTIES ARE AUTHORIZED UNDER MGL CH. 21, S. 42 FOR DISCHARGING INTO MASSACHUSETTS WATERS IN VIOLATION OF AN ORDER OR PERMIT ISSUED BY THE DEPARTMENT. THIS 401 WATER QUALITY CERTIFICATION DOES NOT RELIEVE THE PERMIT HOLDER OF THE DUTY TO COMPLY WITH OTHER APPLICABLE MASSACHUSETTS STATUTES AND REGULATIONS.

SITE SPECIFIC SWPPP NOTES:

1. THE SITE COORDINATES ARE 42°12'48"N (LATITUDE) 71°39'09"W (LONGITUDE) TAKEN FROM GOOGLE EARTH SOFTWARE.

2. THE SITE DOES NOT LIE WITHIN INDIAN COUNTRY LANDS OR LOCATED ON A PROPERTY OF RELIGIOUS OR CULTURAL SIGNIFICANCE TO AN INDIAN TRIBE.

3. THE SITE IS NOT ON AN AREA CONSIDERED A "FEDERAL FACILITY".

4. THE AREA PROPOSED TO BE DISTURBED ON THIS PLAN IS APPROXIMATELY 5.3 ACRES.

5. THE SITE LIES WITHIN THE WATERSHED OF THE MISCOE BROOK. THE MISCOE BROOK IS NOT LISTED IN 314 CMR 4.06 AS A CLASS A OR CLASS B WATER.

6. THE EPA'S WEBSITE DOES NOT IDENTIFY AN ESTABLISHED TMDL FOR MISCOE BROOK.

7. THE USE OF CATIONIC TREATMENT CHEMICALS (I.E. POLYMERS, FLOCCULANT OR OTHER TREATMENT CHEMICAL THAT CONTAIN AN AMMONIUM POSITIVE CHARGE) IS NOT ALLOWED.

10. BASED ON REVIEW OF THE USFWS WEBSITE, THERE ARE NO KNOWN FEDERALLY LISTED THREATENED OR ENDANGERED SPECIES WITHIN THE PROJECT AREA AND THERE ARE NO CRITICAL HABITAT AREAS IDENTIFIED ON THE USFWS WEBSITE.

11. BASED ON NATURAL HERITAGE AND ENDANGERED SPECIES PROGRAM MAPPING THE SITE DOES NOT LIE WITHIN A MAPPED ESTIMATED HABITAT OF RARE WILDLIFE OR A PRIORITY HABITAT OF RARE SPECIES.

11. THE SUBJECT PROPERTY IS NOT KNOWN TO BE A HISTORIC PROPERTY.

GENERAL NOTES

- SEVENTY TWO HOURS PRIOR TO COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL NOTIFY DIG AT (888) 344-7233. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW UTILITIES WITH THE VICINITY OF EXISTING UTILITIES (UNDERGROUND AND OVERHEAD) WITH THE APPROPRIATE UTILITY PROVIDER TO ENSURE PROPER CLEARANCE.
- THE CONTRACTOR SHALL:
 - BE RESPONSIBLE TO COORDINATE HIS WORK WITH MUNICIPALITY TO LIMIT THE POTENTIAL DISRUPTIONS TO THE GENERAL PUBLIC.
 - EXERCISE DUE CARE AND CAUTION TO PROTECT THE PUBLIC FROM DANGERS ASSOCIATED WITH THE OPERATION.
 - INSTALL TEMPORARY FENCES, BARRICADES AND SIGNAGE TO ENSURE THAT NO PERSONS ENTER THE WORK AREA.
 - CONTRACTOR SHALL COORDINATE POLICE DETAILS AS REQUIRED FOR WORK TO BE CONDUCTED IN THE STREET.
- THE CONTRACTOR SHALL RECORD AND PROVIDE THE OWNER WITH AS-BUILT LOCATIONS OF ALL UTILITIES INSTALLED AS PART OF HIS/HER WORK, INCLUDING UTILITIES NOT INDICATED ON PLAN (I.E. GAS, CABLE TV, TELEPHONE, ELECTRIC, ETC.).
- CONTRACTOR SHALL CONTROL AIRBORNE DUST WITH USE OF SPRAYED WATER AS REQUIRED TO MINIMIZE IMPACT ON NEIGHBORING PROPERTIES. USE OF CALCIUM CHLORIDE OR OTHER CHEMICALS IS NOT PERMITTED.
- CONTRACTOR SHALL RETAIN A LICENSED SURVEYOR TO LAY OUT THE SITE CONSTRUCTION, WHO SHALL CERTIFY THAT ALL LOCATIONS ARE AS PER PLAN.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT THE PROPOSED CONSTRUCTION ACTIVITIES DO NOT DAMAGE OR UNDERMINE EXISTING SLOPES, BUILDINGS, WALLS, STRUCTURES, ETC. IN THE AREA AROUND THE CONSTRUCTION. REPAIR OF EXISTING SLOPES, BUILDINGS, WALLS, STRUCTURES, ETC. THAT ARE DAMAGED OR UNDERMINED BY THE CONTRACTORS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- EXISTING UTILITY LOCATIONS ARE APPROXIMATE ARE TO BE FIELD VERIFIED. QUINN ENGINEERING, INC. DOES NOT WARRANT THAT ALL EXISTING UTILITIES HAVE BEEN INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE EXISTING UTILITY LOCATIONS AND ENSURING THAT THE PROPOSED WORK DOES NOT CONFLICT WITH THE EXISTING UTILITIES NOT SHOWN.
- THE CONTRACTOR SHALL REMOVE ALL TOPSOIL, SUBSOIL, PRIOR TO PLACING ANY FILL ON-SITE, WHERE GRAVEL IS CALLED FOR ON-SITE, CONTRACTOR MAY UTILIZE ON-SITE MATERIALS IF APPROVED BY THE OWNER.
- ALL REQUIRED PERMITS SHALL BE SECURED PRIOR TO COMMENCING WORK. PRIOR TO COMMENCING ANY WORK ON SITE, THE CONTRACTOR SHALL NOTIFY THE TOWN OF GRAFTON ZONING PLANNING BOARD, ENGINEERING DEPARTMENT, CONSERVATION COMMISSION, AND HIGHWAY DEPARTMENT.
- ALL WORK SHALL CONFORM, AS APPLICABLE, TO THE TOWN OF GRAFTON PLANNING BOARD, CONSERVATION COMMISSION LOCAL BY-LAW OR OTHER REGULATIONS AS APPLICABLE.
- IF ANY AREAS DISTURBED BY THE PROPOSED WORK SHALL BE STABILIZED. CONTRACTOR SHALL PLACE A MINIMUM OF 4" LOAM AND GRASS SEED IN ALL AREAS NOT SUBJECT TO RESTORATION BY ANY OTHER MEANS.
- ALL SLOPES INDICATED ON PLAN AS STEEPER THAN 3:1 SHALL BE STABILIZED WITH NORTH AMERICAN GREEN S150 EROSION CONTROL BLANKET. BLANKET SHALL BE BIODEGRADABLE AND SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATION UNLESS OTHERWISE SPECIFIED ON PLAN.
- ALL STREET SIGNS SHALL BE MANUFACTURED AND INSTALLED PER THE GRAFTON HIGHWAY DEPT. REQUIREMENTS AND SHALL CONFORM TO FHWA MUTCD STANDARDS.
- SUITABLE FILL SHALL CONSIST OF MATERIAL SOIL FREE OF ORGANIC MATERIALS, LOAM, AND ANY DELETERIOUS MATERIALS. SUITABLE FILL SHALL NOT CONTAIN STONES LARGER THAN 10" IN ANY DIMENSION, AND SHALL HAVE LESS THAN 75% PASSING THE NO. 4 SIEVE AND A MAXIMUM OF 20% PASSING THE NO. 200 SIEVE. SUITABLE FILL SHALL NOT CONTAIN ANY BUILDING RUBBLE, ROOFING MATERIALS, OR OTHER CONSTRUCTION DEBRIS. REFUSE AT THE TIME OF PLACEMENT SUITABLE FILL SHALL NOT CONTAIN FROST, SNOW, OR ICE AND SHALL NOT CONTAIN WATER GREATER THAN THE OPTIMAL MOISTURE CONTENT.
- IF ANY AREAS DISTURBED BY THE PLANNING BOARD OR CONSERVATION COMMISSION IN THE APPROVAL PROCESS ARE HEAVY MADE PART OF THIS WORK, THE GROUND IMMEDIATELY ADJACENT TO FOUNDATIONS SHALL BE SLOPED AWAY FROM THE BUILDING, IN ACCORDANCE WITH THE MA BUILDING CODE.
- FILL REQUIRED BELOW ANY PROPOSED BUILDING FOUNDATION SHALL BE SPECIFIED IN ACCORDANCE WITH MA BUILDING CODE AND SHALL BE SPECIFIED BY A REGISTERED STRUCTURAL ENGINEER. QUINN ENGINEERING, INC. DOES NOT SPECIFY SOIL TO BE USED BELOW BUILDING FOOTINGS OR AS STRUCTURAL FILL.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY TRENCH PERMITS IN ACCORDANCE WITH 520 CMR 14.00.

NOTE:

- THE CONSTRUCTION SEQUENCE SHALL BE AS FOLLOWS:
- INSTALL ALL SEDIMENT AND EROSION CONTROLS
 - CONSTRUCTION & STABILIZATION OF STORMWATER MANAGEMENT STRUCTURES
 - LOT DEVELOPMENT
 - STABILIZE ALL DISTURBED AREAS
 - REMOVE SEDIMENT AND EROSION CONTROLS

STORMWATER COLLECTION AND TREATMENT SYSTEM OPERATION AND MAINTENANCE PLAN:

THIS OPERATION AND MAINTENANCE PLAN OUTLINES THE MINIMUM EFFORTS NECESSARY TO ENSURE THAT THE COMPLETED STORMWATER MANAGEMENT SYSTEM OF THIS SITE OPERATES IN ACCORDANCE WITH THE DEP MASSACHUSETTS STORMWATER HANDBOOK. IN THE EVENT THAT THE SYSTEM PERFORMANCE BECOMES INADEQUATE, ADJUSTMENTS TO THE PLAN MAY BE NECESSARY TO IMPROVE THE PERFORMANCE. ADJUSTMENTS SHALL BE APPROVED BY THE LOCAL CONSERVATION COMMISSION AND DPW/TOWN ENGINEER PRIOR TO IMPLEMENTATION.

IT IS NOTED THAT THE FOLLOWING RESTRICTIONS ON THE USE OF THIS PROPERTY ARE RECOMMENDED FOR THE PROTECTION OF GROUNDWATER.

- USE OF SALT ON ROADS AND WALKS IS TO BE MINIMIZED. UNDER ANY CONDITIONS WHERE SAND OR OTHER NON-TOXIC MATERIALS ARE SUITABLE, THEY ARE TO BE USED.
- USE OF PESTICIDES, HERBICIDES, AND FERTILIZERS ARE TO BE RESTRICTED AND/OR ELIMINATED.

- STORMWATER MANAGEMENT SYSTEM OWNER:**
THE STORMWATER MANAGEMENT BMPs WILL BE OWNED BY THE INDIVIDUAL LOT OWNER ON WHICH THE BMP IS LOCATED.
- RESPONSIBLE PARTY FOR OPERATION AND MAINTENANCE:**
RESPONSIBILITY FOR THE PROPER OPERATION AND MAINTENANCE OF THIS SYSTEM IN ACCORDANCE WITH THE OPERATION AND MAINTENANCE PLAN AND WITH THE REQUIREMENTS OF THE TOWN OF GRAFTON AND THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION ARE THAT OF: PROPERTY OWNER UNLESS A SPECIFIC AGREEMENT IS MADE WITH OTHERS BENEFITING FROM THE PROPOSED DRAIN SYSTEM.

3. ROUTINE AND NON-ROUTINE MAINTENANCE TASKS:

INSPECTION:

IT IS NECESSARY THAT THE COMPONENTS WHICH CONTRIBUTE TO DRAINAGE COLLECTION, TREATMENT, STORAGE, AND DISCHARGE OF STORMWATER BE REGULARLY, ROUTINELY INSPECTED TO VERIFY THAT THE CONDITIONS ARE SUITABLE FOR ITS OPERATION. INSPECTION OF THE SYSTEM SHOULD BE PERFORMED MONTHLY, PARTICULARLY DURING THE FIRST YEAR OF OPERATION, BUT MUST TAKE PLACE QUARTERLY AT A MINIMUM, AS EXPERIENCE DETERMINES THE FREQUENCY OF NECESSARY MAINTENANCE. INSPECTIONS MAY BE ADJUSTED TO MATCH CONDITIONS THAT INCREASE THE NECESSITY OF MAINTENANCE. INSPECTIONS SHALL BE PERFORMED BY A QUALIFIED PROFESSIONAL, EITHER BEING A MASSACHUSETTS LICENSED PROFESSIONAL ENGINEER, A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), OR A CERTIFIED PROFESSIONAL IN STORMWATER QUALITY (CPSWQ). THE RESPONSIBLE PARTY FOR OPERATION AND MAINTENANCE OF THE DRAIN SYSTEM SHOULD BE FAMILIAR WITH "CLEAN UP OF SITES AND SPILLS" INFORMATION AVAILABLE ON THE MA DEP WEBSITE (CURRENTLY AVAILABLE AT <http://www.mass.gov/dep/cleanup/theform.htm>) AND SHOULD BE PREPARED TO ACT ACCORDINGLY IN THE EVENT OF A SPILL. THE SUGGESTED COMPONENTS REQUIRING INSPECTION AND THE SUGGESTED CRITERIA REQUIRED FOR VERIFICATION ARE AS FOLLOWS:

- ON-SITE DRAINAGE AREAS:
AREAS THAT DRAIN INTO THE COLLECTION AREA FROM ON-SITE MUST BE INSPECTED TO VERIFY THAT SOIL SURFACES ARE STABLE AND THAT EROSION OF SOILS INTO THE COLLECTION SYSTEM IS NOT OCCURRING.
- ASPHALT SURFACES:
INSPECT ASPHALT SURFACES FOR ACCUMULATION OF SAND, LITTER, ERODED SOILS, OR OTHER DELETERIOUS MATERIALS. VERIFY THAT NO HAZARDOUS MATERIALS, SUCH AS FUEL OIL, MOTOR OIL, OR OTHER MATERIAL HAS OCCURRED.
- SEDIMENT FOREBAYS:
INSPECT SEDIMENT FOREBAYS MONTHLY TO VERIFY THAT THE FLOORS HAVE NOT ACCUMULATED SEDIMENT AND THAT NETHER EROSION OF THE FLOOR NOR WALLS OF THE AREA HAS OCCURRED, ANY TIME THAT THE STRUCTURE RETAINS STORMWATER GREATER THAN 6" IN DEPTH FOR A PERIOD GREATER THAN 72 HOURS (WHEN PRECIPITATION IS NOT OCCURRING). THE STRUCTURE SHOULD BE INSPECTED. REGULAR INSPECTIONS SHOULD OCCUR AT LEAST TWICE PER YEAR.
- INFILTRATION BASINS:
CONDUCT PREVENTATIVE MAINTENANCE TWICE PER YEAR. INSPECT THE BASINS AFTER EVERY MAJOR STORM FOR THE FIRST THREE MONTHS OF OPERATION AND THEREAFTER CHECKERED AT LEAST ONCE PER YEAR. VERIFY THAT THE FLOORS HAVE NOT ACCUMULATED SEDIMENT AND THAT NETHER EROSION OF THE FLOOR NOR WALLS OF THE AREA HAS OCCURRED, ANY TIME THAT THE STRUCTURE RETAINS STORMWATER GREATER THAN 6" IN DEPTH FOR A PERIOD GREATER THAN 72 HOURS (WHEN PRECIPITATION IS NOT OCCURRING). THE STRUCTURE SHOULD BE INSPECTED.
- TEMPORARY SETTLING BASINS (EMPLOYED AS NECESSARY BY THE SITE CONTRACTOR):
INSPECT WEEKLY TO VERIFY THAT EROSION OF THE FLOORS, WALLS, OR OUTLET HAS NOT OCCURRED. INSPECT THE FLOOR OF THE BASIN TO DETERMINE THE DEPTH OF SEDIMENT.
- CULVERTS:
INSPECT THE CULVERTS TO ENSURE THAT THE INLETS / OUTLETS ARE NOT CLOGGED AND THAT ACCUMULATION OF SOLIDS WITHIN THE CULVERT HAS NOT OCCURRED.

MAINTENANCE ACTIVITIES:

WHEN INSPECTION REVEALS THAT MAINTENANCE IS APPROPRIATE, THE FOLLOWING MAINTENANCE ACTIVITIES ARE SUGGESTED.

- ON-SITE DRAINAGE AREAS:
IN THE EVENT THAT EROSION OF ON-SITE SOILS IS OCCURRING, THE SOILS MUST BE STABILIZED AGAINST FURTHER EROSION. PERMANENTLY FINISH THE SURFACE AGAINST EROSION BY PLACING STABLE VEGETATION SUCH AS LOAM AND GRASS SEED, OR BY ARMORING THE SURFACE AGAINST EROSION BY WITH RIP RAP OR A FILTER FABRIC BLANKET.
- ASPHALT SURFACES:
PICK UP ALL LITTER, JUNK, OR OTHER MATERIALS LEFT ON THE SURFACE. UPON DETECTING ACCUMULATION OF SAND, SEDIMENT, OR OTHER MATERIALS, THE ASPHALT SURFACE MUST BE SWEEPED TO REMOVE ALL SUCH MATERIALS. SWEEPINGS SHOULD BE HANDLED IN ACCORDANCE WITH MA DEP POLICY BRP-94-092. ANY MATERIAL DEPOSITS DEEMED TO BE HAZARDOUS MUST BE REMOVED AND DISPOSED OF BY A LICENSED CONTRACTOR.
- INFILTRATION BASIN:
TWICE PER GROWING SEASON MOW THE GRASS IN THE BASIN AND ON THE SIDE SLOPES. REMOVE TRASH AND DEBRIS, GRASS CLIPPINGS, ORGANIC MATTER. ANY EVIDENCE OF EROSION OF THE WALLS OR STORAGE FACILITY MUST BE REPAIRED. ACCUMULATED SEDIMENT SHOULD BE REMOVED TWICE PER YEAR AT TIMES WHEN THE BASIN FLOOR IS DRY.
- TEMPORARY SETTLING BASIN (EMPLOYED BY THE SITE CONTRACTOR)
ANY EVIDENCE OF EROSION OF THE FLOOR, WALLS, OR OUTLET OF THE BASIN MUST BE REPAIRED. ACCUMULATED SEDIMENT GREATER THAN 12" IN DEPTH SHOULD BE REMOVED UPON DETECTION. THE BASIN MAY BE ELIMINATED WHEN ALL UPSTREAM AREAS HAVE BEEN FULLY STABILIZED.
- SEDIMENT FOREBAY:
CLEAN FOUR TIMES PER YEAR AND WHEN THE SEDIMENT DEPTH IS GREATER THAN 6". MOW THE GRASS IN THE FOREBAY AS NECESSARY TO MAINTAIN A HEIGHT BETWEEN 3 AND 6 INCHES. ANY EVIDENCE OF EROSION OF THE WALLS OR THE STORAGE FACILITY MUST BE REPAIRED. ALL SEDIMENTS AND HYDROCARBONS SHOULD BE HANDLED PROPERLY AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.

RECORD KEEPING

IT IS NECESSARY THAT THE RECORD OF EACH INSPECTION AND MAINTENANCE ACTIVITY BE KEPT. SUCH INFORMATION SHOULD INCLUDE THE FOLLOWING AT A MINIMUM:

- PERSON PERFORMING THE ACTIVITY
- DATE OF THE ACTIVITY AND WEATHER CONDITIONS
- PRECEDING WEATHER CONDITIONS
- SITE CONDITIONS (DRY, HEAVY SNOW COVER, SATURATED CONDITIONS, ETC.)
- SPECIFIC ACTIVITY (INSPECTION, CLEANING, ETC.)
- FACILITY INSPECTED
- RESULTS OF THE ACTIVITY
- OTHER INSPECTION OR MAINTENANCE REQUIRED BY THE STORMWATER POLLUTION PREVENTION PLAN.

THE RECORDS SHOULD BE UTILIZED TO DETERMINE WHAT FREQUENCY OF INSPECTION AND MAINTENANCE IS APPROPRIATE FOR THE SYSTEM AND WHAT TIMES OF YEAR THE ACTIVITIES MAY BE NEEDED MORE FREQUENTLY. ANY ACTIVITY PERFORMED SUBSEQUENT TO A MAJOR STORM EVENT OR PROLONGED WEATHER EPISODE SHOULD BE NOTED SO THAT THE SYSTEM PERFORMANCE MAY BE EVALUATED IN ASSOCIATION WITH THE PREVAILING CONDITIONS.

4. THE PROPOSED DRAIN SYSTEM CAN BE SEEN ON THESE PLANS.

5. THE STORMWATER MANAGEMENT SYSTEM OWNER AND THE RESPONSIBLE PARTY FOR OPERATION AND MAINTENANCE SHALL EMPLOY DUE CARE AND CAUTION TO PROTECT THE PUBLIC FROM DANGERS ASSOCIATED WITH THE OPERATION AND MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM.

6. OPERATION AND MAINTENANCE COSTS SHALL BE BORNE BY THE STORMWATER MANAGEMENT SYSTEM OWNER OR THE RESPONSIBLE PARTY FOR OPERATION AND MAINTENANCE. COSTS WILL VARY DEPENDING ON THE FREQUENCY AND EXTENT OF OPERATION AND MAINTENANCE ACTIVITIES.

LONG TERM POLLUTION PREVENTION PLAN MEASURES:

- GOOD HOUSEKEEPING PRACTICES SHALL BE EMPLOYED IN MAINTENANCE OF THE STORMWATER SYSTEM AND ON SITE AREAS. THE MINIMUM HOUSEKEEPING PRACTICES ARE IDENTIFIED IN THE STORMWATER COLLECTION AND TREATMENT SYSTEM OPERATION AND MAINTENANCE PLAN.
- STORAGE OF MATERIALS AND WASTE PRODUCTS SHALL BE STORED IN A MANNER THAT MINIMIZES EXPOSURE TO STORMWATER, IE USE OF TARPAULINS, INSIDE STORAGE, ETC. MATERIALS AND WASTE SHALL BE MAINTAINED IN AN ORDERLY MANNER AND SHALL BE COLLECTED IMMEDIATELY UPON SPILLS OR DISPERSION.
- VEHICLE WASHING SHOULD OCCUR IN ACCORDANCE WITH THE "ILLICIT AND NON STORMWATER DISCHARGES" PORTION OF THE STORMWATER POLLUTION PREVENTION PLAN NOTES.
- LONG TERM MAINTENANCE OF THE STORMWATER SYSTEM SHALL FOLLOW THE OPERATION AND MAINTENANCE REQUIREMENTS ON THESE PLANS AT A MINIMUM.
- PARTIES RESPONSIBLE FOR MAINTENANCE OF THE STORMWATER SYSTEM SHOULD BE FAMILIAR WITH "CLEAN UP OF SITES AND SPILLS" INFORMATION AVAILABLE ON THE MA DEP WEBSITE (CURRENTLY AVAILABLE AT [http://www.mass.gov/dep/c](http://www.mass.gov/dep/cleanup/homeowner.htm)