

# "VILLAGE GREEN"

## 40B COMPREHENSIVE PERMIT AMENDED APPLICATION

### at 15 Great Road

### Littleton, Massachusetts

**NOTE:**

ALL SUPPLEMENTAL DATA SUBMITTED IN CONJUNCTION WITH THIS 40B COMPREHENSIVE PERMIT APPLICATION AS REQUIRED BY THE LITTLETON ZONING BOARD OF APPEALS IS HEREBY INCORPORATED AS PART OF THE PLAN SET. THIS PLAN, ITS SUPPORTING DOCUMENTATION AND FORM WORK ARE SUBMITTED PURSUANT TO THE PROVISIONS OF THE TOWN OF LITTLETON'S ZONING BOARD OF APPEALS MODEL RULES FOR THE ISSUANCE OF A COMPREHENSIVE PERMIT AND MASSACHUSETTS GENERAL LAW, CHAPTER 40B.

**LITTLETON ASSESSOR DATA:**

MAP & PARCEL: MAP U1 PARCELS  
2-0, 6-0, 32-17, 32-18, 32-19, 32-20,  
1-27 AND 1-28.

**REFERENCES:**

MIDDLESEX SOUTH REGISTRY OF DEEDS

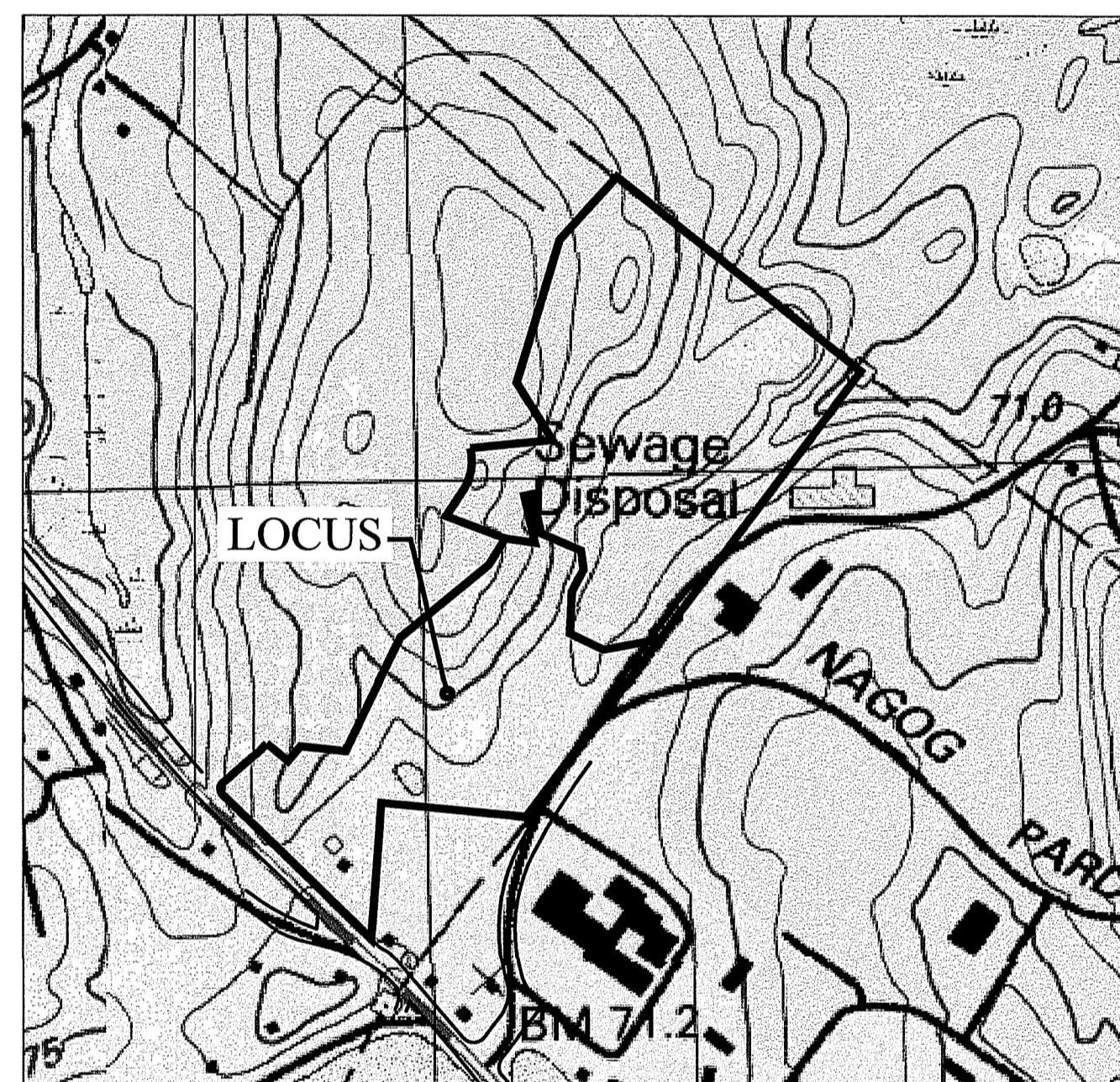
BK 62302 PG 405  
BK 62302 PG 407  
BK 62302 PG 409

**ZONING**

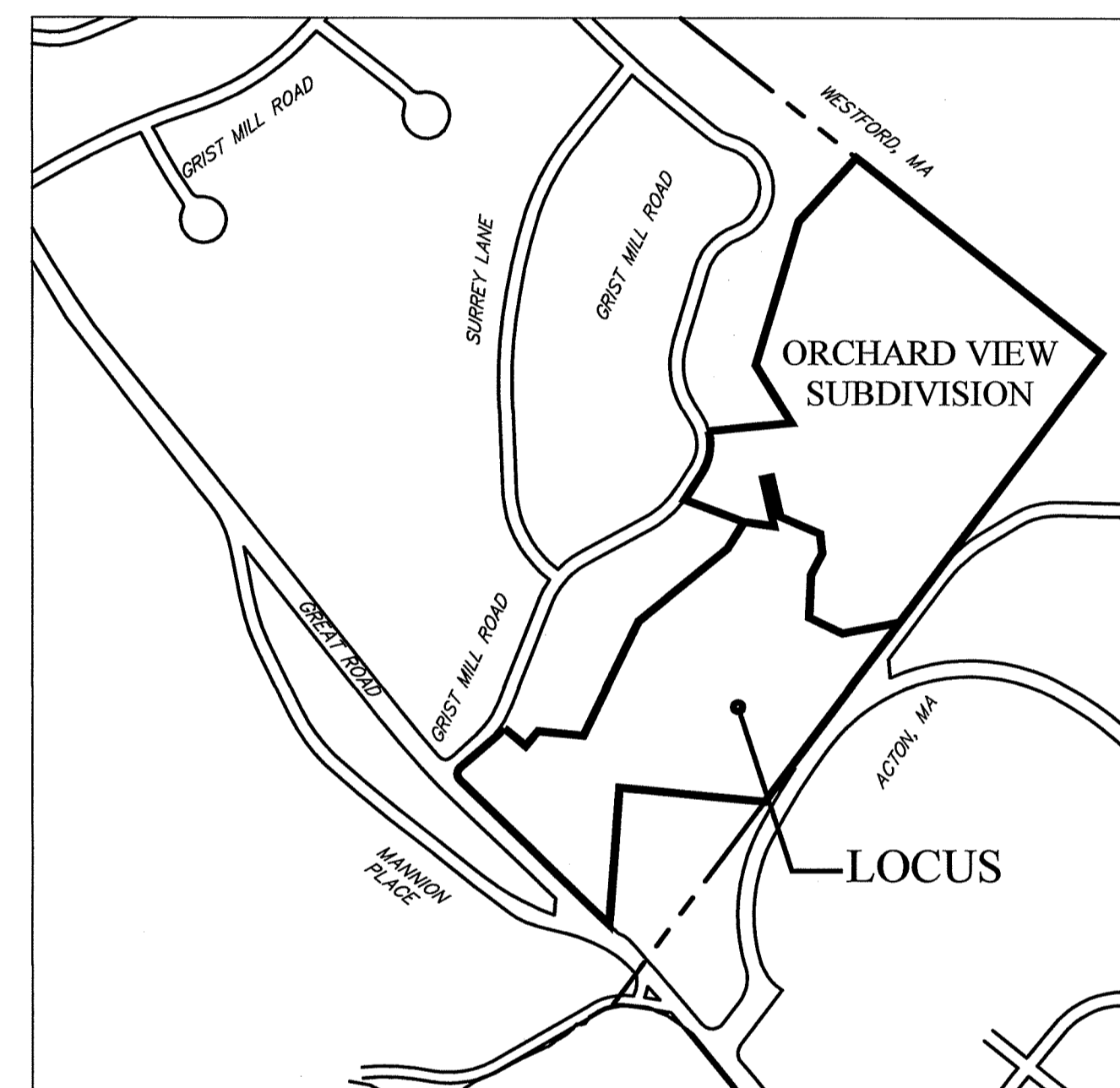
R-RESIDENTIAL

SITE DOES NOT CONTAIN ANY FLOOD HAZARD  
ZONE PER FLOOD INSURANCE RATE MAP  
25017C243E PANEL 243 OF 656 EFFECTIVE  
JUNE 4, 2010.

SITE IS NOT WITHIN A LITTLETON AQUIFER OR  
WATERSHED PROTECTION OVERLAY DISTRICT.



**LOCUS**  
SCALE: 1" = 600'



**LOCUS**  
SCALE: 1" = 600'

**SHEET INDEX**

CP-1 COVER SHEET  
CP-2 NOTES AND LEGEND  
CP-3 INDEX PLAN  
CP-4,5 SITE PLANS  
L-1,2 LANDSCAPE PLANS

**GENERAL REVISION NOTE:**

PREVIOUS PLAN DATES:  
MAY 2011-ORIGINAL SUBMITTAL  
FEB 16, 2012-GENERAL REVISION  
JULY 9, 2012-COMPREHENSIVE PERMIT SUBMISSION  
NOV 1, 2012-PAVEMENT REDUCTION, GENERAL REVISION  
DEC 4, 2012-MINOR REVISIONS

DUE TO EXTENSIVE REVISIONS, THESE PLANS SUPERCEDE  
ALL PREVIOUS PLANS AND ARE DATED DEC 4, 2013 TO  
AVOID CONFUSION

**APPLICANT:**

Fifteen Great Road II LLC  
200 Baker Avenue-Suite 303  
Concord, MA 01742

**OWNER:**

Fifteen Great Road II LLC  
C/O Omni properties, LLC  
200 Baker Ave, Suite 303  
Concord, MA 01742

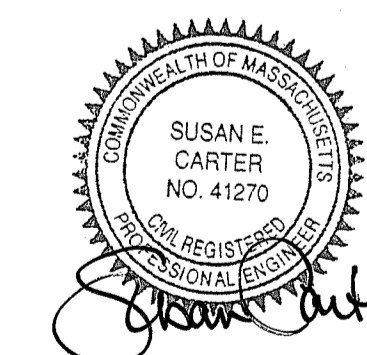
**PLANNER, LANDSCAPE ARCHITECT, CIVIL  
ENGINEER & SURVEYOR:**

Places Associates, Inc.  
256 Great Road, Suite 4  
Littleton, MA 01460

**ARCHITECTS:**

David M. White, Architect  
54 Todd Farm Lane  
P.O.Box 817  
New London, NH 03257

Artform Architecture, Inc.  
580 Greenland Road  
Portsmouth, NH 03801



**COVER SHEET**

LOCATION: 15 GREAT ROAD  
TOWN: LITTLETON, MASSACHUSETTS  
PREPARED FOR:

**FIFTEEN GREAT  
ROAD II LLC**

SCALE: AS SHOWN DATE: DEC 4, 2013

**Places Associates, Inc.**

Planning, Landscape Architecture,  
Civil Engineering, Surveying  
256 GREAT ROAD, SUITE 4  
LITTLETON, MA 01460  
978.486.0334 Ph.  
978.486.0447 Fax  
places@placesassociates.com  
PROJECT No.: 11-6303 PLAN No. CP-1

**PERMIT SET  
NOT FOR CONSTRUCTION**

**GENERAL NOTES:**

1. PRIOR TO THE PREPARATION OF BIDS AND/OR THE INITIATION OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN AND CAREFULLY EXAMINE THIS PLAN SET, RELATED CONSTRUCTION PLAN SETS FROM OTHER PROFESSIONAL DISCIPLINES, CONSTRUCTION SPECIFICATIONS, MANUFACTURERS INFORMATION AND ANY APPLICABLE PERMIT REQUIREMENTS/CONDITIONS OF APPROVAL FOR THE PROJECT. SEE NOTE #4 BELOW, AS IT RELATES TO THIS REQUIREMENT.
2. THE EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. DIG SAFE AND THE APPROPRIATE UTILITY COMPANIES SHALL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE INITIATION OF CONSTRUCTION OR ANY EXCAVATION.
3. NOT ALL UTILITIES WERE ABLE TO BE LOCATED BY RECORD INFORMATION, SITE SURVEYS OR UTILITY LOCATOR SERVICES. THE DESIGN ENGINEER AND BASE PLAN SURVEYOR DO NOT ACCEPT ANY RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OR SUBSURFACE STRUCTURES WHICH ARE OMITTED OR INACCURATELY SHOWN. PRIOR TO THE INITIATION OF WORK, THE CONTRACTOR SHALL VERIFY THE LOCATION/ELEVATION OF EXISTING UTILITIES SHOWN ON THE PLAN.
4. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY UPON THE DISCOVERY OF ANY DISCREPANCY BETWEEN THE LOCATION/ELEVATION OF ANY EXISTING UTILITIES SHOWN ON THE PLANS AND THAT WHICH IS FOUND IN THE FIELD.
5. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A REGISTERED PROFESSIONAL LAND SURVEYOR TO PROVIDE LAYOUT & CONTROL FOR THE DEVELOPMENT OF THE SITE.
6. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY UPON THE DISCOVERY OF ANY CONTRADICTORY, INCOMPLETE OR MISLABELED INFORMATION SHOWN ON THE PLANS OR PLANS PREPARED BY OTHERS. THE CONTRACTOR SHALL ALLOW FOR ADEQUATE TIME FOR THE ENGINEER TO RESPOND/PROVIDE DIRECTION FOR THE PLAN DISCREPANCY.
7. ALL CONSTRUCTION UNDER AREAS SUBJECT TO VEHICULAR TRAFFIC SHALL BE CONSTRUCTED TO WITHSTAND A DIRECT AASHTO H20 DESIGN LOAD. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL UTILITY/SITE IMPROVEMENT AREAS UNDER LANDSCAPED/NON-TRAFFIC BEARING AREAS FROM TEMPORARY CONSTRUCTION LOADS DURING CONSTRUCTION.
8. THE CONSTRUCTION SHOWN ON THESE PLANS REQUIRES AN ORDER OF CONDITIONS BE ISSUED BY THE LITTLETON CONSERVATION COMMISSION. THE CONTRACTOR SHALL OBTAIN A COPY OF SUCH ORDERS OF CONDITIONS PRIOR TO ANY SITE-RELATED DISTURBANCES AND SHALL COMPLY WITH APPROPRIATE CONDITIONS FOR CONSTRUCTION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL ADJACENT PROPERTY FROM DAMAGE. ALL DAMAGES BY THE CONTRACTOR OR SUBCONTRACTORS SHALL BE REPAIRED AT NO COST TO THE OWNER.
10. THE CONTRACTOR SHALL MAINTAIN AND PROTECT ALL EXISTING SURVEY MONUMENTS (BOUNDS, PINS, PIPES, DRILL HOLES, ETC.) THROUGHOUT ALL PHASES OF CONSTRUCTION. ANY DISTURBED MONUMENTS SHALL BE REPLACED BY A REGISTERED PROFESSIONAL LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SHOP DRAWINGS OF PRODUCTS/MATERIALS TO THE ENGINEER AND/OR THE LOCAL APPROVING AUTHORITY AS REQUIRED IN THE CONSTRUCTION DOCUMENTS OR IF REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION OVER THE PRODUCT. ADEQUATE TIME SHALL BE ALLOWED FOR THE SHOP DRAWINGS TO BE REVIEWED AND RETURNED TO THE CONTRACTOR PRIOR TO ORDERING THE SPECIFIED PRODUCTS/MATERIALS.
12. ALL SUPPLEMENTAL DATA SUBMITTED IN CONJUNCTION WITH THIS PLAN SET AS REQUIRED BY THE APPROPRIATE REGULATIONS IS HEREBY INCORPORATED AS PART OF THE PLAN SET.
13. ALL PERMANENT BOUNDARY AND SURVEY MONUMENTS SHALL BE INSTALLED AFTER THE COMPLETION OF ALL HEAVY SITE WORK.
14. NO DEBRIS, JUNK, RUBBISH OR OTHER WASTE MATERIALS SHALL BE BURIED, BURNED OR OTHERWISE DISPOSED OF WITHIN THE LIMITS OF THE PROJECT. ALL WASTE, TRASH AND DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS.
15. UNLESS OTHERWISE SPECIFIED OR SHOWN, ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE STANDARDS DESCRIBED IN THE TOWN OF LITTLETON'S SUBDIVISION CONTROL REGULATIONS. IF NOT SPECIFIED THEREIN, SUCH CONSTRUCTION SHALL THEN CONFORM TO THE REQUIREMENTS OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (MDOT, FORMERLY MASSHIGHWAY) STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST VERSION.
16. THE CONTRACTOR SHALL APPLY FOR AND OBTAIN A PERMIT FROM MASS HIGHWAY TO CONSTRUCT WITHIN A PUBLIC WAY FOR WORK WITHIN GREAT ROAD, STATE ROUTE 2A. CONTROLLED DENSITY FILL SHALL BE USED AS PAVEMENT BASE COURSE WITHIN THE STATE HIGHWAY LAYOUT.
17. WETLANDS DELINEATION PERFORMED BY OXBOW ASSOCIATES, INC. OF ACTON, MA IN APRIL 2011. LOCATIONS OF FLAGS WERE FIELD-SURVEY LOCATED BY PLACES ASSOCIATES, INC. THE FINAL WETLANDS LIMITS ARE SUBJECT TO REVIEW AND APPROVAL BY THE LITTLETON CONSERVATION COMMISSION, SEE NOTE #8 ABOVE.

**SITE WORK NOTES:**

1. THE LIMITS OF WORK SHALL BE FIELD ESTABLISHED PRIOR TO INITIATION OF ANY CONSTRUCTION, SITE EXPLORATIONS OR EARTHEN DISTURBANCE.
2. EROSION CONTROLS SHALL BE IMPLEMENTED PRIOR TO SITE CLEARING OR DISTURBANCE. SEE EROSION AND SEDIMENTATION CONTROL PLAN.
3. EXCEPT FOR THE SETUP FOR ENTRY TO THE SITE, NO CONSTRUCTION OR CONTRACTOR'S VEHICLES SHALL BE PARKED ON GRIST MILL ROAD OR GREAT ROAD. UNLESS COORDINATED WITH ADJACENT PROPERTY OWNERS, ALL CONSTRUCTION STAGING, STOCKPILE AND PARKING AREAS SHALL BE ONSITE.
4. LOAM SHALL BE STOCKPILED FOR RE-USE ON THE SITE TO THE EXTENT PRACTICAL, SEE EROSION AND SEDIMENTATION CONTROL PLAN.
5. NO DEBRIS, JUNK, RUBBISH OR OTHER WASTE MATERIALS SHALL BE BURIED, BURNED OR OTHERWISE DISPOSED OF WITHIN THE LIMITS OF THE PROJECT. ALL WASTE, TRASH AND DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS. THE SITE SHALL BE KEPT IN A NEAT AND ORDERLY FASHION.
6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TRENCH OPERATIONS PERMIT PURSUANT TO THE REQUIREMENTS OF THE TOWN OF LITTLETON AND 520 CMR 14.00 (AKA "JACKIE'S LAW").

**MATERIAL DEFINITIONS:**

BITUMINOUS CONCRETE PAVEMENT	ALL SITE PAVING SHALL BE CLASS 1 BITUMINOUS CONCRETE. MIXTURES SHALL BE COMPOSED OF MINERAL AGGREGATE, MINERAL FILLER (IF REQUIRED) AND BITUMINOUS MATERIAL. THE MIXTURE MAY INCLUDE RECLAIMED ASPHALT PAVEMENT AT THE OPTION OF THE CONTRACTOR AND AS PRE-APPROVED BY LITTLETON HIGHWAY DEPARTMENT.
CAST IN PLACE CONCRETE	THE MIXTURE COMPOSITION AND TOLERANCES SHALL MEET THE SPECIFICATIONS FOR BINDER COURSE AND TOP COURSE MIXTURES AS SPECIFIED IN TABLE A OF SSHB M3.11.03. IF RECLAIMED ASPHALT PAVEMENT (RAP) IS USED IN THE MIXTURE, THE PROPORTION OF RAP TO VIRGIN AGGREGATE SHALL BE LIMITED TO A MAXIMUM OF 40% FOR DRUM MIX PLANTS AND 20% FOR MODIFIED BATCH PLANTS.
CONTROLLED DENSITY FILL (CDF)	ALL SITE CAST IN PLACE CONCRETE AND RELATED REINFORCING SHALL MEET THE REQUIREMENTS OF THE MASSACHUSETTS STATE BUILDING CODE, THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM) FOR PRODUCT MATERIALS, FORM WORK, PLACEMENT AND CURING. ALL SITE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI UNLESS OTHERWISE REQUIRED IN THE CONSTRUCTION DOCUMENTS.
CRUSHED STONE	CONTROL DENSITY FILL SHALL BE A FLOWABLE, SELF-CONSOLIDATING, RIGID SETTING, LOW DENSITY MATERIAL THAT CAN SUBSTITUTE FOR COMPACTED GRAVELS FOR BACKFILLS, FILLS AND STRUCTURAL FILLS. CDF SHALL BE EXCAVATABLE BY HAND TOOLS AND/OR SMALL EQUIPMENT WHEN PLACED AND CURED. CDF SHALL MEET THE REQUIREMENTS OF SSHB M4.0.08, TYPE 2E, AND SHALL MEET THE FOLLOWING REQUIREMENTS:  A. CDF IS TO BE BATCHED AT A READY MIX PLANT AND IS TO BE USED AT A HIGH OF "VERY HIGH SLUMP FROM 10" TO 12". IT SHALL BE FLOWABLE AND REQUIRE NO VIBRATION AFTER IT HAS BEEN PLACED.  B. CDF SHALL BE A MIXTURE OF PORTLAND CEMENT, FLYASH, SAND AND WATER DESIGNED TO MEET THE CDF REQUIREMENTS. HIGH AIR ENTRAINMENT MAY BE SUBSTITUTED FOR FLYASH WITH AN ADJUSTURES (25%) ADJUSTMENT IN SAND CONTENT.  C. CDF MUST MEET THE FOLLOWING STRENGTH REQUIREMENTS: -28 DAY COMPRESSIVE STRENGTH: 30-80 PSI -90 DAY COMPRESSIVE STRENGTH: 100 PSI MAX
DENSE GRADED CRUSHED STONE	DENSE GRADED CRUSHED STONE SHALL CONSIST OF THE COMBINATION OF CRUSHER-RUN COARSE AGGREGATES (MEETING SSHB M2.01.0) AND FINE AGGREGATE OF NATURAL SAND OR STONE SCREENING UNIFORMLY PREMISED WITH A PREDETERMINED QUANTITY OF WATER. COARSE AGGREGATE SHALL CONSIST OF HARD, DURABLE PARTICLES OF FRAGMENTS OF STONE. MATERIALS THAT BREAK UP WHEN ALTERNATELY FROZEN AND THAWED OR WETTED AND DRIED SHALL NOT BE USED. FINE AGGREGATE SHALL CONSIST OF NATURAL OR CRUSHED SAND. THE GRADATION/MATERIAL SHALL COMPLY WITH THE SPECIFICATIONS OF SSHB M2.01.7
GLACIAL TILL	A. GLACIAL TILL: NATURAL INORGANIC SOLID APPROVED BY THE ENGINEER AND MEETING THE FOLLOWING REQUIREMENTS:  A. IT SHALL BE FREE OF ORGANIC OR OTHER WEAK OR COMPRESSIBLE MATERIALS, FROZEN MATERIALS AND STONES GREATER THAN TWO INCHES IN MAXIMUM DIMENSION.  B. IT SHALL BE A SILT LOAM AS DEFINED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL TEXTURAL CLASSIFICATION.  C. THE SOIL SHALL CONSIST OF GREATER THAN 50% SILT, 12% TO 27% CLAY, OR 50% TO 80% SILT AND LESS THAN 12% CLAY.
GRAVEL BORROW	GRAVEL BORROW SHALL CONSIST OF INERT MATERIAL THAT IS HARD, DURABLE STONE AND COURSE SAND, FREE FROM CLAY, SURFACE COATINGS, ORGANIC AND DELETERIOUS MATERIAL. ALL GRAVEL BORROW SHALL MEET THE REQUIREMENTS OF SSHB M1.03.0. MAXIMUM STONE SIZE SHALL BE AS FOLLOWS:  TYPE A: 6" LARGEST DIMENSION TYPE B: 3" LARGEST DIMENSION TYPE C: 2" LARGEST DIMENSION
LOAM (BORROW)	LOAM SHALL CONSIST OF NATURAL TOPSOIL, FREE FROM SUB-SOIL, OBTAINED FROM AN AREA WHICH HAS NEVER BEEN STRIPPED. LOAM SHALL BE OF UNIFORM QUALITY, FREE FROM HARD CLODS, STIFF CLAY, HARDPAN, SOIL, PARTIALLY DISINTEGRATED STONE, LIME, CEMENT, ASHES, SLAG, CONCRETE, TAR RESIDUE, TARNED PAPER, BOARDS, CHIPS OR ANY OTHER UNDESIRABLE MATERIAL.  LOAM SHALL CONTAIN BETWEEN 5.5 AND 7.5 PERCENT ORGANIC MATTER AS DETERMINED BY LOSS ON IGNITION OF A MOISTURE-FREE SAMPLE DRIED IN ACCORDANCE WITH THE CURRENT METHOD OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS.  THE ACIDITY RANGE OF THE LOAM SHALL BE PH 6.5 TO PH 7.5 INCLUSIVE.  THE MECHANICAL ANALYSIS OF THE SOIL SHALL BE AS FOLLOWS:  U.S. SIEVE SIZE & NUMBER      PERCENT PASSING MINIMUM      MAXIMUM 1 INCH      100% 3/4 INCH      97% NO. 100 (SAND)      49% NO. 100 (SILT & CLAY)      40%
ORDINARY BORROW	ORDINARY BORROW SHALL CONSIST OF MATERIAL NOT SPECIFIED AS ANY OTHER MATERIAL. ORDINARY BORROW SHALL BE WELL GRADED, NATURAL, INORGANIC MATERIAL ACCEPTABLE TO THE ENGINEER FOR THE GENERAL FILLING TO THE SPECIFIED SUB-GRADE. THE MATERIAL SHALL MEET THE FOLLOWING REQUIREMENTS:  A. IT SHALL BE FREE OF ORGANIC OR OTHER WEAK OR COMPRESSIBLE MATERIAL, OF FROZEN MATERIALS AND OF STONES LARGER THAN 6 INCHES IN MAXIMUM DIMENSION.  B. IT SHALL BE OF SUCH NATURE & CHARACTER THAT IT CAN BE COMPACTED TO THE SPECIFIED DENSITIES IN A REASONABLE AMOUNT OF TIME.  C. IT SHALL BE FREE OF HIGHLY PLASTIC CLAYS, OF ALL MATERIALS SUBJECT TO DECAY, DECOMPOSITION, AND OF CHINDERS OR OTHER MATERIALS WHICH WILL CORRODE PIPING OR OTHER BURIED MATERIALS.  D. IT SHALL HAVE A MAXIMUM DRY DENSITY OF NOT LESS THAN 100 POUNDS PER CUBIC FOOT AND LESS THAN 40 % OF THE MATERIAL SHALL PASS THE NUMBER 200 SIEVE.  E. EXCAVATED ROCK & BOULDERS SMALLER THAN ONE CUBIC YARD IN SIZE MAY BE USED IN FILL AREAS UNDER LAWNS ONLY. PROVIDED THEY ARE A MINIMUM OF 24 INCHES BELOW THE SUBGRADE, PLACED AND COMPACTED IN LAYERS WITH NO VOIDS AND ALL INTERSTICES FILLED.
RIP RAP	RIP-RAP STONE SHALL BE SOUND, DURABLE ROCK, ANGULAR IN SHAPE. RIP RAP SHALL BE FREE FROM DEBRIS, ORGANIC OR DELETERIOUS MATERIAL. ROUNDED STONES, BOULDERS, SANDSTONE OR SIMILAR SOFT STONE OR RELATIVELY THIN SLABS WILL NOT BE PERMITTED UNLESS SPECIFICALLY PERMITTED BY THE DESIGN ENGINEER. ALL RIP RAP MATERIALS SHALL MEET THE REQUIREMENTS OF SSHB M2.02.0.
SAND BORROW	SAND BORROW SHALL CONSIST OF CLEAN INERT, HARD, DURABLE GRAINS OF QUARTZ OR OTHER HARD DURABLE ROCK, FREE FROM LOAM OR CLAY, SURFACE COATINGS AND DELETERIOUS MATERIALS. THE ALLOWABLE AMOUNT OF MATERIAL PASSING A #200 SIEVE AS DETERMINED BY AASHTO T 11 SHALL NOT EXCEED 10% MASS. ALL SAND BORROW SHALL MEET THE REQUIREMENTS OF SSHB M1.04.0.
COMPACTION TESTING	ALL EARTHEN MATERIALS SHALL BE COMPACTED TO THE DRY DENSITY INDICATED IN THE CONSTRUCTION DOCUMENTS AND/OR AS IS REQUIRED BY CODE OR REGULATION. MAXIMUM DRY DENSITY SHALL BE DETERMINED FROM A SAMPLE OF THE MATERIAL TO BE USED AND TESTED IN ACCORDANCE WITH THE MODIFIED PROCTOR DRY DENSITY TEST AS DEFINED IN ASTM D1557, METHOD C.  AREAS THAT WERE TESTED AND FOUND TO BE INSUFFICIENTLY COMPACTED SHALL BE RE-TESTED AFTER THE ADDITIONAL COMPACTION HAS BEEN COMPLETED.

**ABBREVIATIONS**

ABBREVIATION	DEFINITION
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABR	ABREVIATION
AR-1	ACCESSIBLE RAMP - TYPE 1
AR-2	ACCESSIBLE RAMP - TYPE 2
AR-3	ACCESSIBLE RAMP - TYPE 3
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
B&B	BALL & BURLAP
BC	BOTTOM CURB ELEVATION
BIT. CONC.	BITUMINOUS CONCRETE
BLOC	BUILDING
BM	BENCHMARK
BR	BOTTOM RAMP ELEVATION
CAL	CALIPER
CB	CONCRETE BOUND
CF	CUBIC FOOT
CI	CAST IRON PIPE
CMP	CORRUGATED METAL PIPE
CONC.	CONCRETE
CTB	CATCH BASIN
CY	CUBIC YARD
DH	DRILL HOLE
DI	DUCTILE IRON PIPE
DIA	DIAMETER
DWH	DRAIN MANHOLE
ELEV	ELEVATION
EMH	ELECTRIC MANHOLE
EX	EXISTING
EXT.	EXTENSION
FDN	FOUNDATION
FES	FLARED END SECTION
FPE	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FND	FOUND
FSD	FIELD STONE BOUND
FT	FEET - LINEAR MEASURE
GAL	GALLON
GPM	GALLONS PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HP	HIGH POINT
HT	HEIGHT
I. PIN	IRON PIN
I. PIPE	IRON PIPE
ID	INSIDE DIAMETER
INV.	PIPE INVERT ELEVATION
LP	LOW POINT
MAX	MAXIMUM
MHB	MASS HIGHWAY BOUND
MIN	MINIMUM
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
R&P	PLUG & PIN
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE PIPE
RCP	ROUND CONCRETE PIPE
R & S	REMOVE & STOCKPILE ITEM
REQ'D	REQUIRED
SB	STONE BOUND
SMH	SEWER MANHOLE
SPRD	SPREAD
S&S	STAKE & STONE
SSHB	STANDARD SPECIFICATIONS OF HIGHWAYS & BRIDGES, THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS
STV	SLOPED TO VERTICAL CURB TRANSITION SEGMENT
TBM	TEMPORARY BENCH MARK
TC	TOP OF CURB ELEVATION
TMH	TELEPHONE MANHOLE
TOC	TOP OF CONCRETE FOUNDATION ELEVATION
TR	TOP OF RAMP ELEVATION
TYP	TYPICAL FOR ALL ITEMS SHOWN
UP	UTILITY POLE
VGCTS	VERTICAL GRANITE CURB TRANSITION SEGMENT

**MATERIAL DEFINITIONS (CONT.):**

STRUCTURAL FILL	STRUCTURAL FILL IS FILL OR REPLACEMENT SOIL MATERIALS LOCATED BELOW AND ADJACENT TO ALL STRUCTURAL FOOTINGS, SLABS AND BUILDINGS, (AS DEFINED BY THE MASSACHUSETTS BUILDING CODE) EXTENDING OUT TEN FEET (10'-0") FROM THE EXTERIOR LIMITS OF SUCH STRUCTURES.  STRUCTURAL FILL SHALL MEET THE FOLLOWING REQUIREMENTS - IN THE ORDER OF PRIORITY:  1. A SITE SPECIFIC GEOTECHNICAL REPORT, SPECIFICATION OR REQUIREMENT PREPARED BY A MASSACHUSETTS REGISTERED PROFESSIONAL ENGINEER.  2. A STRUCTURAL ENGINEER'S REPORT, SPECIFICATIONS OR REQUIREMENTS.  3. AN ARCHITECT'S REPORT, SPECIFICATION OR REQUIREMENTS.  4. CRUSHED STONE BEING 3/4" TO 1 1/2" DIAMETER, MEETING SSHB M2.01.0
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**LEGEND**

	EXISTING	PROPOSED
INDEX CONTOUR	-100	100
INTERMEDIATE CONTOUR	-99	99
SPOT GRADE	X 100.52	X 100.52
STONE WALL		
EDGE OF WOODS		
EDGE OF WATER BODY		
100 YEAR FLOOD LINE		
EDGE OF WETLAND		
25' BUFFER		
50' BUFFER		
75' BUFFER		
100' BUFFER		
WETLAND		
WETLAND FLAG		
RIVERFRONT		
100' RIVER BUFFER		
200' RIVER BUFFER		
SILTATION BARRIER		
BUILDING SETBACK LINE		
WELL		
TREE		
FLAGPOLE		
BOUND		
DRILL HOLE		
IRON PIN		
BENCHMARK		
PERC TEST		
TEST PIT		
SOIL BORING		
EDGE OF GRAVEL		
EDGE OF WALK		
EXPANSION JOINT		
CONSTRUCTION JOINT		
EDGE OF PAVEMENT		
CAPE COD BERM		
BIT CONC. (TYPE 3)		
CONCRETE CURB		
VERT. GRANITE CURB		
SLOPED GRANITE CURB		
STOCKADE FENCE		
CHAIN LINK FENCE		
FENCE - OTHER		
FENCE GATE		
GUARD RAIL		
WOOD GUIDE RAIL		
ROOT BARRIER		
SIGN POST		
FOUNDATION DRAIN		
ROOF DRAIN		
DRAIN LINE		
DRAIN MANHOLE		
CATCHBASIN		
FLARED END IN/OUT		
CLEANOUT		
IRRIGATION LINE		
FIRE PROTECTION LINE		
WATER LINE		
WATER VALVE		
FIRE HYDRANT		
WATER SHUTOFF		
OVERHEAD WIRES		
UNDERGROUND WIRES		
GUY POLE		
UTILITY POLE		
GUY ANCHOR		
UTILITY BOX		
STREETLIGHT		
LAMP POST		
ELECTRIC MANHOLE		
TELEPHONE MANHOLE		
SEWER LINE		
SEWER FORCE MAIN		
LOW PRESSURE SEWER		
SEWER MANHOLE		
GAS LINE		
GAS VALVE		

**VILLAGE GREEN  
NOTES AND LEGEND**

LOCATION: 15 GREAT ROAD  
TOWN: LITTLETON, MASSACHUSETTS  
PREPARED FOR:

**FIFTEEN GREAT  
ROAD LLC**

SCALE: AS SHOWN      DATE: DEC 4, 2013

Places Associates, Inc.

Planning, Landscape Architecture,  
Civil Engineering, Surveying  
256 GREAT ROAD, SUITE  
4 LITTLETON, MA 01460  
978.486.0334 Ph.  
978.486.0447 Fax  
places@placesassociates.com

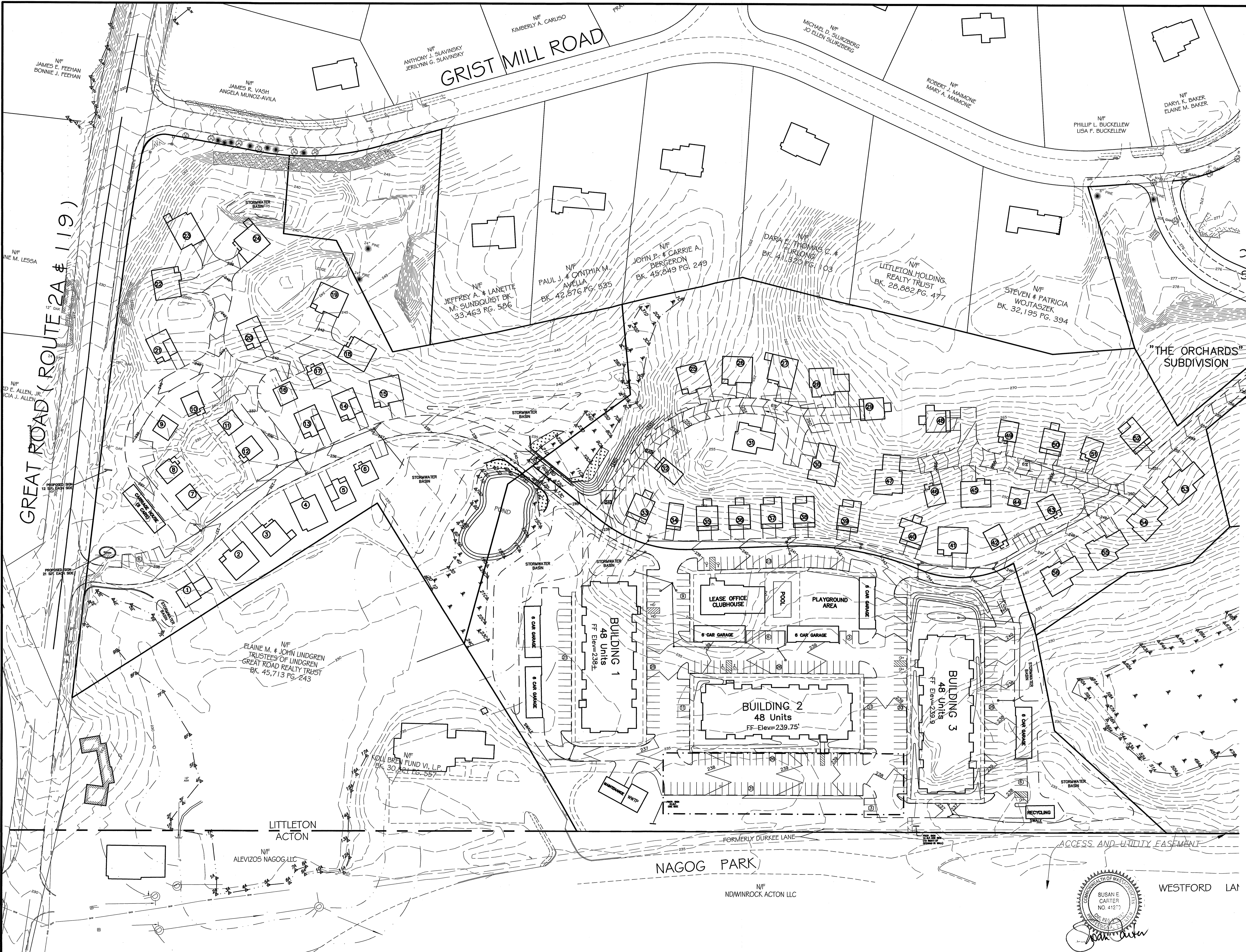
PROJECT No.: 11-6303      PLAN No. 6303A-CP-2



**PERMIT SET  
NOT FOR CONSTRUCTION**

NOTE: ALL SUPPLEMENTAL DATA SUBMITTED IN CONJUNCTION WITH THIS PROJECT AS REQUIRED BY THE TOWN OF LITTLETON REGULATIONS IS HEREBY INCORPORATED AS PART OF THE PLAN SET. THIS PLAN, ITS SUPPORTING DOCUMENTATION AND FORM-WORK ARE SUBMITTED PURSUANT TO THE PROVISIONS OF THE TOWN OF LITTLETON'S SUBDIVISION REGULATIONS AND MASSACHUSETTS GENERAL LAW, CHAPTER 81 AND PURPOSEFULLY OBTAINS THE PROTECTIONS PROVIDED THEREIN.

PLAN BOOK 776 PLAN 23



**PARKING SPACES:**

COMMON:	
BUS STOP:	6
CLUBHOUSE:	23
RECYCLE:	2
APARTMENTS:	
SURFACE:	232
COVERED:	36
SUBTOTAL:	299
OWNERSHIP UNITS:	112
SITE TOTAL:	411

**GENERAL REVISION NOTE:**  
 DUE TO EXTENSIVE REVISIONS, THESE PLANS SUPERCEDE ALL PREVIOUS PLANS AND ARE DATED DEC 4, 2013 TO AVOID CONFUSION

**PERMIT SET  
 NOT FOR CONSTRUCTION  
 12-4-2013**

**"VILLAGE GREEN"  
 INDEX PLAN**

LOCATION: 15 GREAT ROAD  
 TOWN: LITTLETON, MASSACHUSETTS  
 PREPARED FOR:

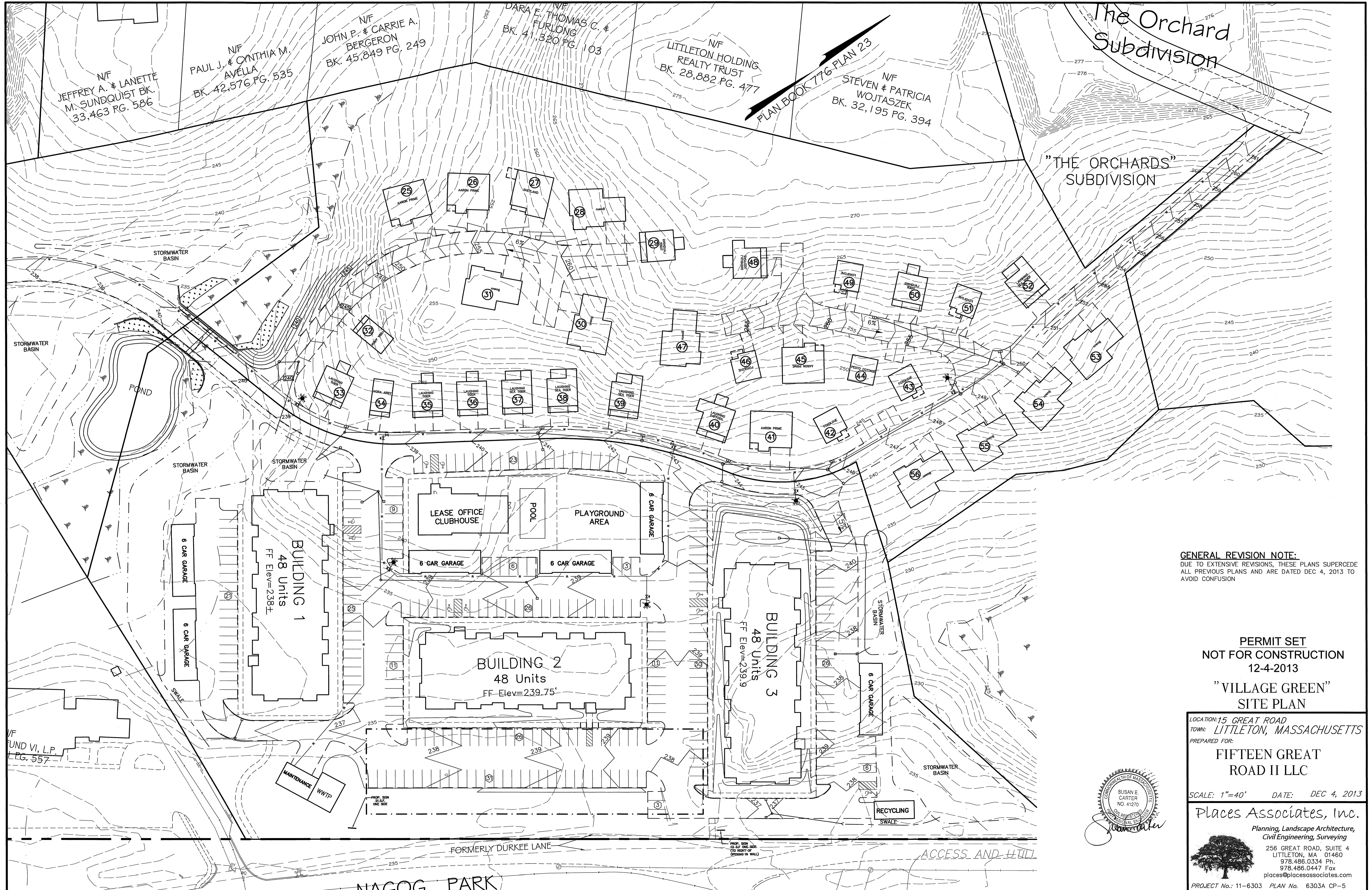
**FIFTEEN GREAT  
 ROAD II LLC**

SCALE: 1"=60' DATE: DEC 4, 2013

**Places Associates, Inc.**  
 Planning, Landscape Architecture,  
 Civil Engineering, Surveying  
 256 GREAT ROAD, SUITE 4  
 LITTLETON, MA 01460  
 978.486.0334 Ph.  
 978.486.0447 Fax  
 places@placesassociates.com  
 PROJECT No.: 11-6303 PLAN No. 6303A CP-3







**GENERAL REVISION NOTE:**  
DUE TO EXTENSIVE REVISIONS, THESE PLANS SUPERCEDE  
ALL PREVIOUS PLANS AND ARE DATED DEC 4, 2013 TO  
AVOID CONFUSION

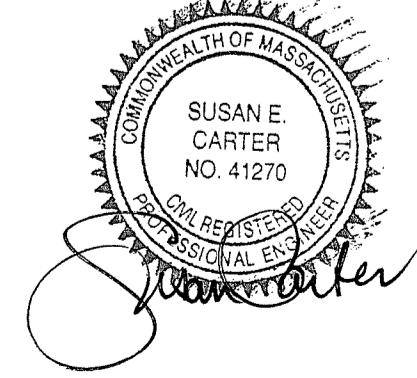
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NOT FOR CONSTRUCTION  
12-4-2013**  
**"VILLAGE GREEN"  
SITE PLAN**

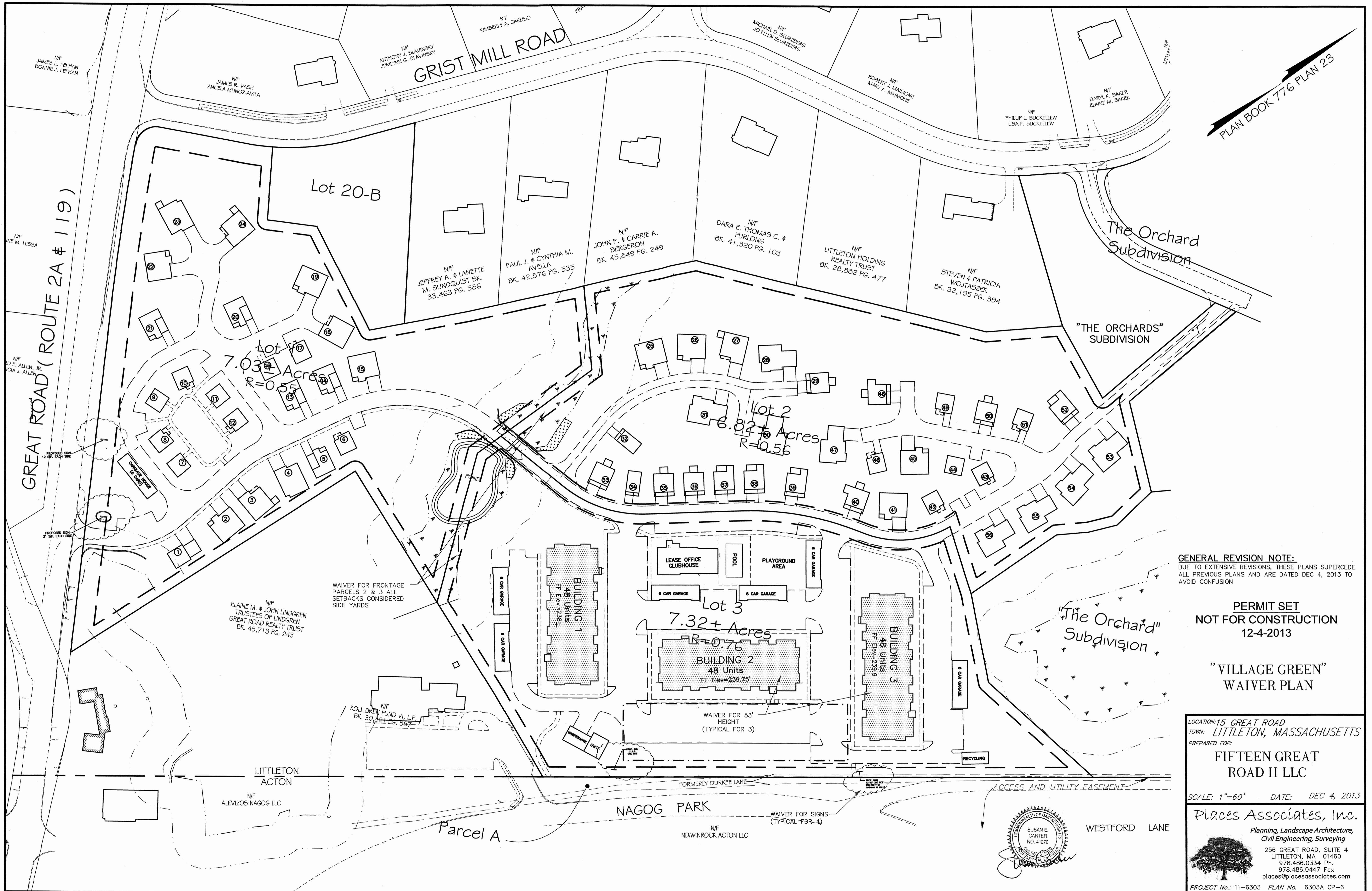
LOCATION: 15 GREAT ROAD  
TOWN: LITTLETON, MASSACHUSETTS  
PREPARED FOR:

**FIFTEEN GREAT  
ROAD II LLC**

SCALE: 1"=40' DATE: DEC 4, 2013

**Places Associates, Inc.**  
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978.486.0334 Ph.  
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PROJECT No.: 11-6303 PLAN No. 6303A CP-5





GENERAL REVISION NOTE:  
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ALL PREVIOUS PLANS AND ARE DATED DEC 4, 2013 TO  
AVOID CONFUSION

PERMIT SET  
NOT FOR CONSTRUCTION  
12-4-2013

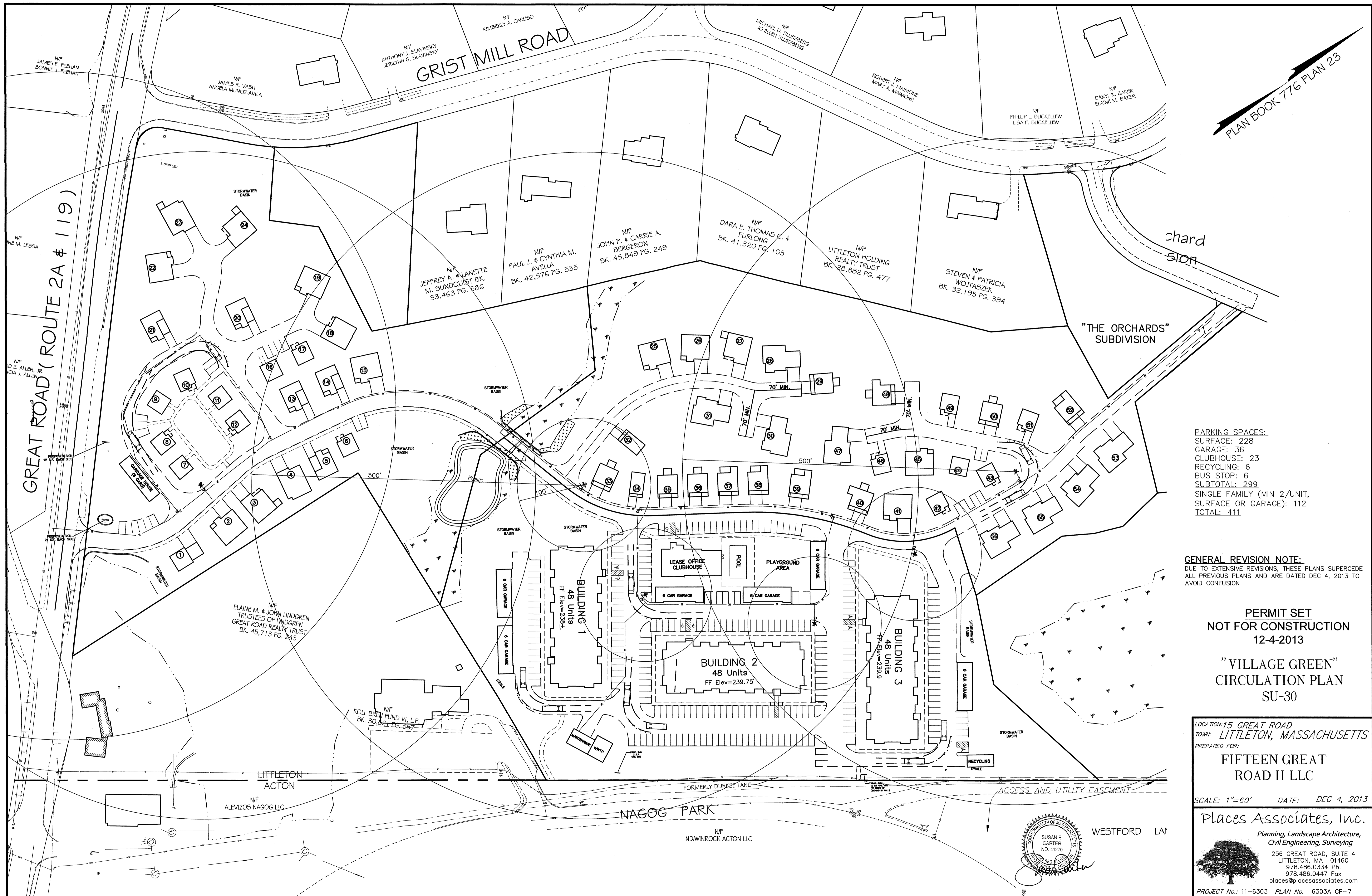
"VILLAGE GREEN"  
WAIVER PLAN

LOCATION: 15 GREAT ROAD  
TOWN: LITTLETON, MASSACHUSETTS

PREPARED FOR:  
FIFTEEN GREAT  
ROAD II LLC

SCALE: 1"=60' DATE: DEC 4, 2013

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places@placesassociates.com  
PROJECT No.: 11-6303 PLAN No. 6303A CP-6



PLAN BOOK 776 PLAN 23

PARKING SPACES:  
SURFACE: 228  
GARAGE: 36  
CLUBHOUSE: 23  
RECYCLING: 6  
BUS STOP: 6  
SUBTOTAL: 299  
SINGLE FAMILY (MIN 2/UNIT,  
SURFACE OR GARAGE): 112  
TOTAL: 411

GENERAL REVISION NOTE:  
DUE TO EXTENSIVE REVISIONS, THESE PLANS SUPERCEDE  
ALL PREVIOUS PLANS AND ARE DATED DEC 4, 2013 TO  
AVOID CONFUSION

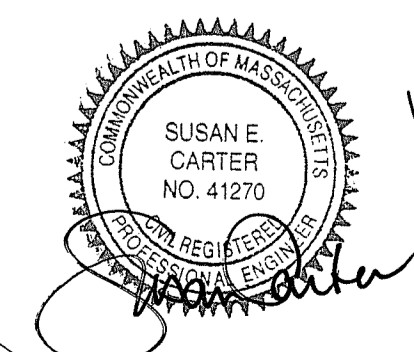
PERMIT SET  
NOT FOR CONSTRUCTION  
12-4-2013  
"VILLAGE GREEN"  
CIRCULATION PLAN  
SU-30

LOCATION: 15 GREAT ROAD  
TOWN: LITTLETON, MASSACHUSETTS

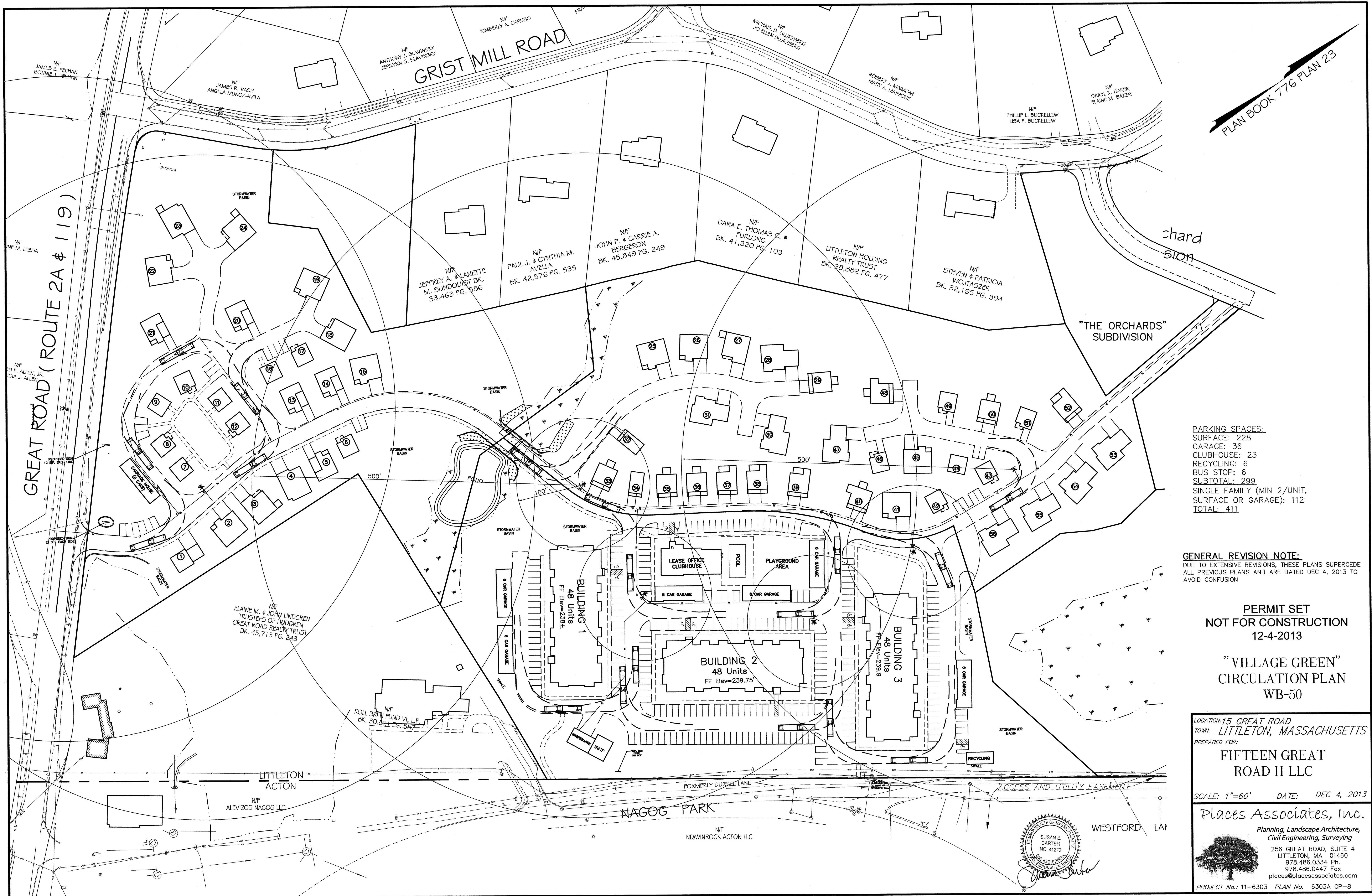
PREPARED FOR:  
FIFTEEN GREAT  
ROAD II LLC

SCALE: 1"=60' DATE: DEC 4, 2013

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places@placesassociates.com  
PROJECT No.: 11-6303 PLAN No. 6303A CP-7



WESTFORD LAI



PLAN BOOK 776 PLAN 23

**PARKING SPACES:**  
 SURFACE: 228  
 GARAGE: 36  
 CLUBHOUSE: 23  
 RECYCLING: 6  
 BUS STOP: 6  
 SUBTOTAL: 299  
 SINGLE FAMILY (MIN 2/UNIT, SURFACE OR GARAGE): 112  
 TOTAL: 411

**GENERAL REVISION NOTE:**  
 DUE TO EXTENSIVE REVISIONS, THESE PLANS SUPERCEDE ALL PREVIOUS PLANS AND ARE DATED DEC 4, 2013 TO AVOID CONFUSION

**PERMIT SET**  
**NOT FOR CONSTRUCTION**  
 12-4-2013

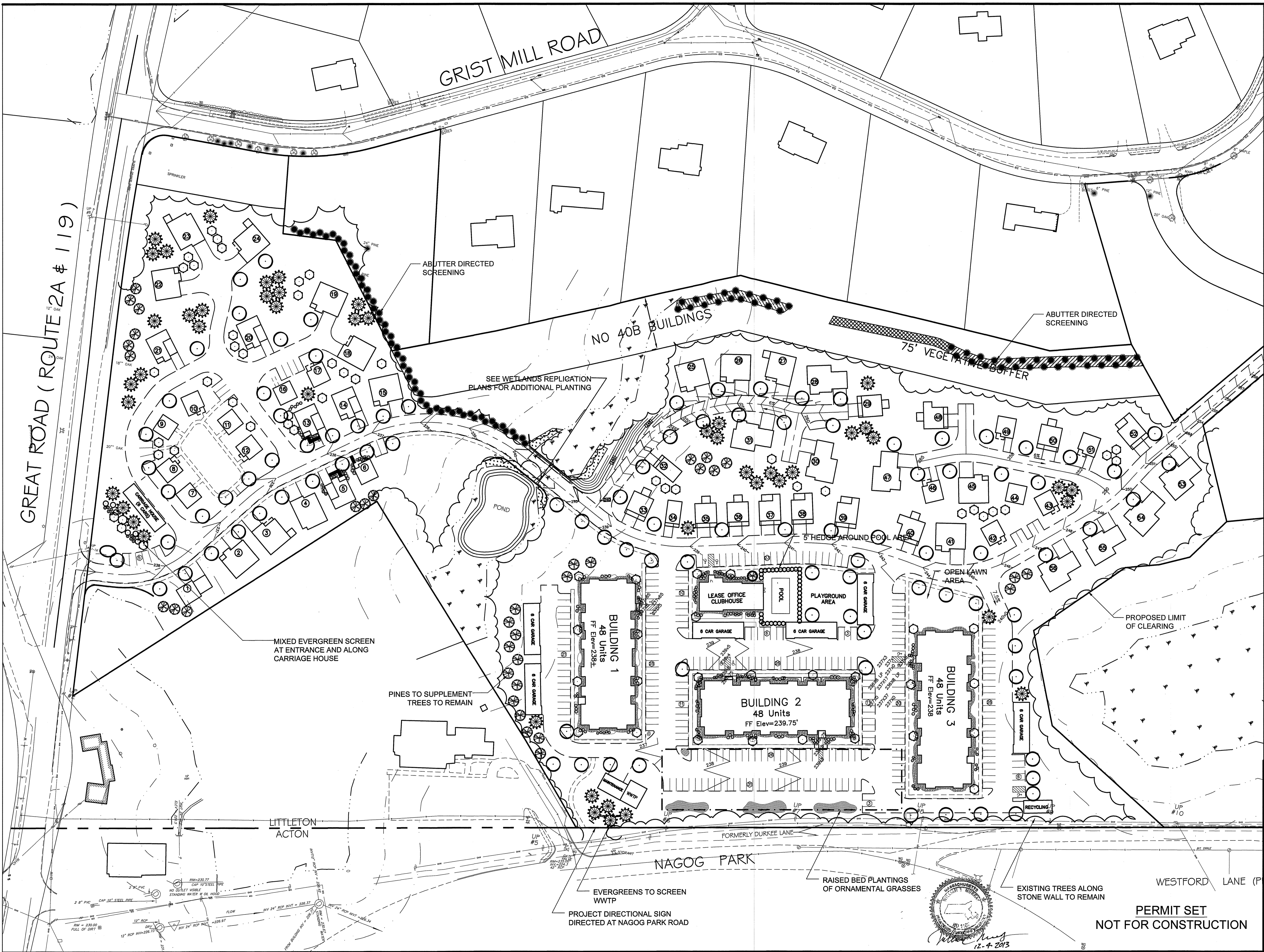
**"VILLAGE GREEN"**  
**CIRCULATION PLAN**  
 WB-50

LOCATION: 15 GREAT ROAD  
 TOWN: LITTLETON, MASSACHUSETTS  
 PREPARED FOR:  
**FIFTEEN GREAT ROAD II LLC**

SCALE: 1"=60' DATE: DEC 4, 2013

**Places Associates, Inc.**  
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PROJECT No.: 11-6303 PLAN No. 6303A CP-8



PLAN BOOK 776 PLAN 23

- STREET/SHADE TREE
- EVERGREEN TREE
- PINE BUFFER TREE
- FLOWERING/ORNAMENTAL TREE
- EVERGREEN SCREEN
- FLOWERING SHRUB
- EVERGREEN SHRUB
- SMALL FLOWERING SHRUB

NOTES:  
1. UNLESS OTHERWISE SHOWN, ALL SURFACES WILL BE LOAMED AND SEEDED OR BE LANDSCAPED WITH HARD SURFACES (PAVEMENT).  
2. IMMEDIATELY ADJACENT TO ALL APARTMENT BUILDINGS AND THE CLUB HOUSE WILL BE A MINIMUM OF THREE FOOT WIDE CRUSHED STONE BED.  
3. ALL PLANTS SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR FROM THE DATE OF INSTALLATION.  
4. ALL PLANTS SHALL MEET THE AMERICAN NURSERYMAN'S ASSOCIATION STANDARDS FOR PLANT STANDARDS, QUALITY AND HEALTH.

VILLAGE GREEN

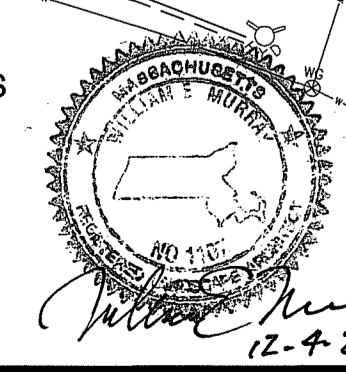
LOCATION: 15 GREAT ROAD  
TOWN: LITTLETON, MASSACHUSETTS  
PREPARED FOR:

FIFTEEN GREAT ROAD II LLC

SCALE: 1"=60' DATE: December 4, 2013

Places Associates, Inc.  
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PROJECT No.: 11-6303 PLAN No. 6303A L-1

PERMIT SET  
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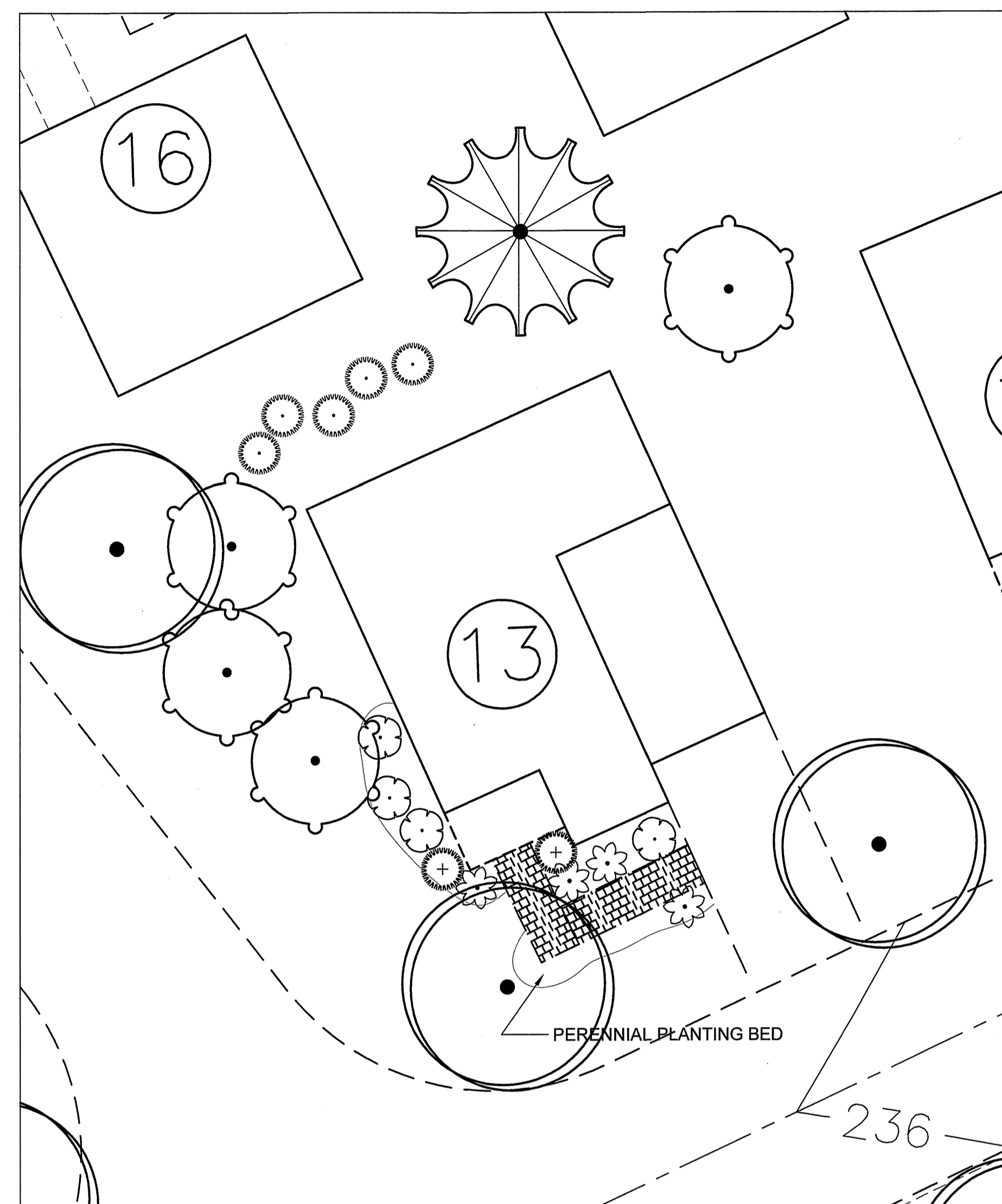
# INDIVIDUAL UNIT LANDSCAPING:

1. TREES: Tree to be planted for typical individual units would include species such as
 

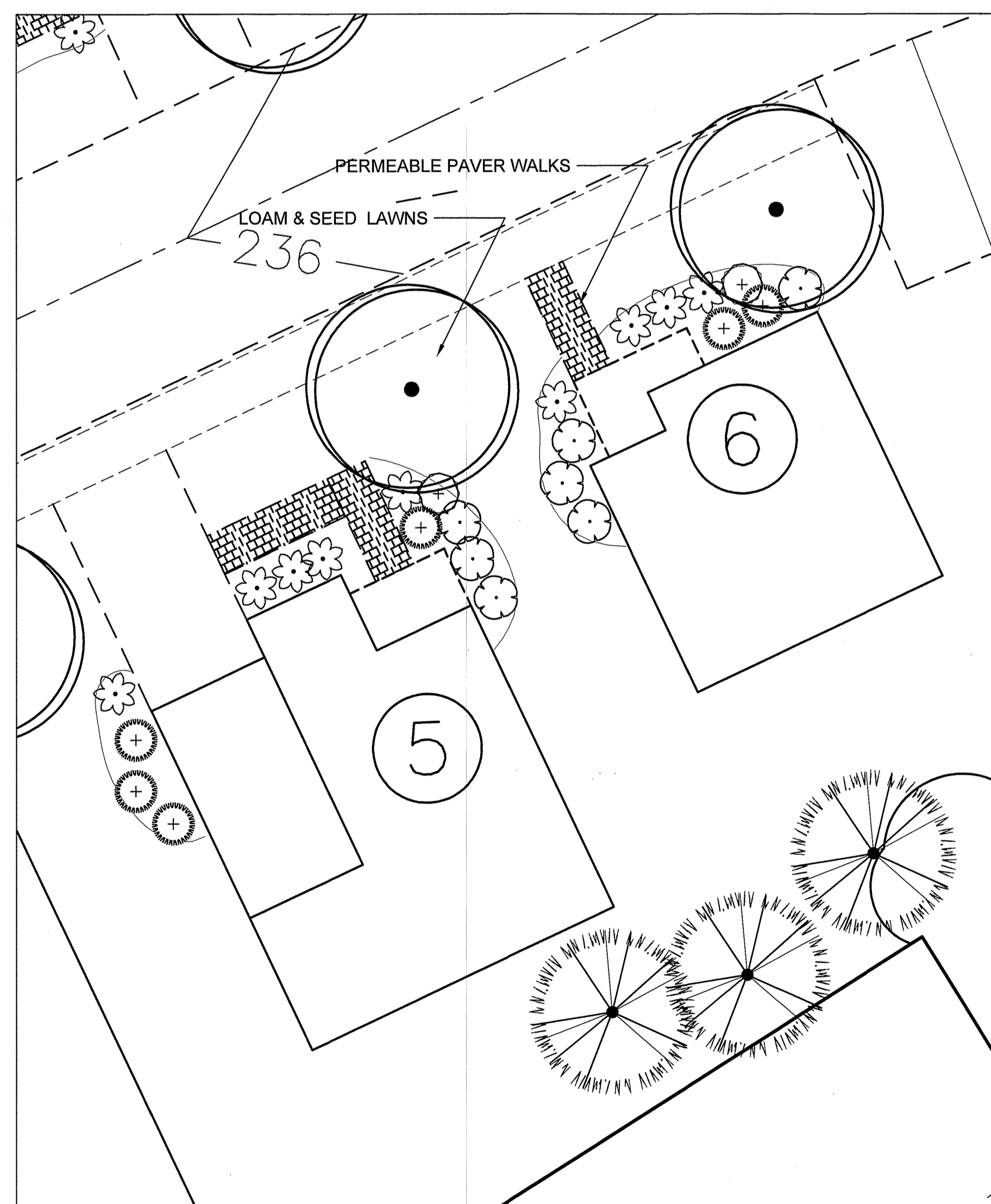
a. Flowering Dogwoods	b. Flowering Crab Apples	c. Magnolias
d. Arborvitae	e. Paperbark Maple	f. River Birch
g. Flowering Cherry	h. Flowering Almond	i. Flowering Pear
j. Similar, low stature, flowering or accent trees.		
2. SHRUBS:
 

Evergreen Shrubs:		
a. Yew	b. Blue Rug Juniper	c. Upright Juniper
d. Arborvitae	e. Accent Pines	f. Holly
g. Cypress	h. False Cypress	i. Cedar
j. Broad-leaved Evergreens (Rhododendrons, Mountain Laurel, Azalea, Luecothoe)		
Flowering Shrubs:		
a. Azalea	b. Forsythia	c. Enkianthus
d. Potentilla	e. Spirea	f. Lillac (early & late)
g. Inkberry	h. Winterberry	i. Hydrangea
j. Viburnums	k. Other similar mid to small size flowering shrubs, with design intent of full seasonal color.	
3. Accent & Ground cover:
 

a. Decorative Grasses	b. Daylily	c. Perennial Plants
d. Pachysandra	e. Virginia Creeper	f. Hosta
g. Other accent and groundcover plants to provide surface stabilization, in fill and aesthetics		



typical foundation planting 1"=10'



typical foundation planting 1"=10'

- STREET/SHADE TREE
- ⊗ EVERGREEN TREE
- ⊗ PINE BUFFER TREE
- ⊗ FLOWERING/ORNAMENTAL TREE
- EVERGREEN SCREEN
- ⊗ FLOWERING SHRUB
- ⊗ EVERGREEN SHRUB
- ⊗ SMALL FLOWERING SHRUB

- NOTES:
1. UNLESS OTHERWISE SHOWN, ALL SURFACES WILL BE LOAMED AND SEEDED OR BE LANDSCAPED WITH HARD SURFACES (PAVEMENT).
  2. IMMEDIATELY ADJACENT TO ALL BUILDINGS WILL BE A MINIMUM OF THREE FOOT WIDE CRUSHED STONE BED.
  3. ALL PLANTS SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR FROM THE DATE OF INSTALLATION.
  4. ALL PLANTS SHALL MEET THE AMERICAN NURSERYMAN'S ASSOCIATION STANDARDS FOR PLANT STANDARDS, QUALITY AND HEALTH.
  5. ALL PLANTING BEDS ARE TO RECEIVE A MINIMUM OF 6" DEPTH OF PLANTING LOAM AND A MINIMUM OF 4" OF SHREDDED BARK MULCH OR OTHER SIMILAR MULCHING MATERIAL.

## VILLAGE GREEN

LOCATION: 15 GREAT ROAD  
TOWN: LITTLETON, MASSACHUSETTS  
PREPARED FOR:  
FIFTEEN GREAT  
ROAD II LLC

SCALE: 1"=60' DATE: December 4, 2013

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PROJECT No.: 11-6303 PLAN No. 6303A L-2



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