EROSION AND SEDIMENTATION CONTROL

GENERAL

A RAPID, WELL ORDERED CONSTRUCTION PROGRAM THAT LIMITS THE TIME AND EXTENT OF DISTURBANCES SHALL BE THE PRIMARY EROSION CONTROL PROCEDURE USED AT THIS SITE.

THE SITE IS FLAT, AND BY LIMITING THE CONCENTRATION OF RUNOFF, THE POTENTIAL FOR EROSION WILL BE DECREASED.

BOTH ARLINGTON STREET AND PERKINS LANE SHED RUNOFF TO WETLAND RESOURCE AREAS AND ANY MATERIALS DEPOSITED ON OR FLOWING TO THE STREET PAVEMENTS COULD BE TRANSPORTED TO RESOURCE AREAS.

ACCESS

VEHICLES INVOLVED IN THE HOUSE CONSTRUCTION SHOULD ENTER FROM ARLINGTON STREET, AND VEHICLES CARRYING MATERIALS USED FOR THE CONSTRUCTION OF THE SOIL ABSORPTION SYSTEM SHALL ENTER FROM PERKINS LANE. THE EXISTING DRIVEWAY SHALL BE USED FOR THE ENTRANCE FROM ARLINGTON STREET.

PRIOR TO ANY CONSTRUCTION ACTIVITIES, TRACKING PADS OR TEMPORARY CONSTRUCTION ENTRANCES MUST BE PLACED AT THE ENTRANCES TO REMOVE MATERIALS FROM TIRES AND CONTROL VEHICLE SPEEDS. THE TRACKING PADS SHALL BE PROPERLY MAINTAINED.

ANY MATERIALS REACHING THE STREETS SHALL BE REMOVED UPON OBSERVATION.

EROSION BARRIERS

EROSION BARRIERS CONSISTING OF STAKED STRAW WATTLES [SILT SOCKS] SHALL BE INSTALLED AS SHOWN ON THE PLAN. THE FLAT TOPOGRAPHY AND LIMITED DRAINAGE AREAS AT THIS SITE POSE A LOW POTENTIAL FOR EROSION, AND THE BARRIERS ARE TO SERVE AS A LIMIT OF WORK. IN AREAS WHERE TRAFFIC COULD BE HIGH THEY SHOULD BE SUPPLEMENTED BY CONSTRUCTION FENCES.

IN AREAS WHERE RUNOFF COULD CONCENTRATE, SUCH AS THE SOUTH END OF THE SOIL ABSORPTION SYSTEM, WOODCHIPS SHOULD BE USED TO SUPPLEMENT THE STRAW WATTLES.

STRAW WATTLES ARE ONLY EFFECTIVE IF THEY ARE IN FULL CONTACT WITH THE GROUND AND ARE MAINTAINED OR REPLACED AS REQUIRED TO ENSURE EFFECTIVENESS.

SUFFICIENT WOOD CHIPS SHALL BE KEPT ONSITE TO SUPPLEMENT OR FORM ADDITIONAL BARRIERS. WOODCHIPS CAN ALSO BE USED TO FILL PUDDLES IN ORDER TO DECREASE THE TRACKING OF MATERIALS ONTO ROADS.

SOIL ABSIRPTION SYSTEM CONSTRUCTION

THE AREA OF THE SOIL ABSORPTION SYSTEM [SAS] SHALL BE CLEARED AND GRUBBED, WITH WASTE MATERIALS BEING PROMPTLY TRANSPORTED OFFSITE FOR PROPER DISPOSAL.

TOPSOIL SHALL BE PRESERVED FOR STABILIZING THE FINISHED SAS AND STORED AT THE LOCATION SHOWN.

OTHER EARTHEN MATERIALS FROM THE SAS OVER-DIG SHALL BE IMMEDIATELY PLACED TO SERVE AS BREAKOUT FILL AND BE FORMED TO LIMIT RUNOFF FROM THE DISTURBED AREA.

TITLE 5 SAND SHALL BE PLACED ON THE SITE FROM PERKINS LANE. THE CHAMBERS SHALL BE INSTALLED AND BACKFILLED TO ALLOW THE SURFACE OF THE SAS PLATEAU TO BE STABILIZED AND TOPSOILED AND SEEDED.

GRADING SHALL ALLOW FOR THE FLOW OF RUNOFF FROM THE PROPERTY TO THE WEST, AND FOR RUNOFF FROM PERKINS LANE TO FLOW AROUND AND NOT OVER THE SAS. THE FLOW PATHS SHALL HAVE STONE SWALES.

IT IS EXPECTED THAT A PORTION OF THE BREAKOUT FILL WILL BE DERIVED FROM FOUNDATION EXCAVATIONS, AND THE CONSTRUCTION OF THE SAS SHALL BE PLANNED TO ALLOW THESE MATERIALS TO BE INCORPORATED WITHOUT THE NEED TO STOCKPILE.

ABANDONMENT OF EXISTING SEPTIC SYSTEM

THE EXISTING SEPTIC TANK AND PIT SHALL BE PUMPED, CRUSHED IN PLACE, AND BACKFILLED.

FOUNDATIONS

EXCAVATIONS SHALL BE MADE WHEN MATERIALS CAN BE PLACED FOR BREAKOUT FILL.

EQUIPMENT FOR EXCAVATING THE FOUNDATION AT THE REAR OF THE HOUSE SHALL NOT TRAVEL AROUND THE GARAGE. THEY SHALL PASS BETWEEN THE HOUSE AND THE SAS. IF DEWATERING IS REQUIRED FOR THE PLACEMENT OF FOOTINGS, A SHALLOW BASIN SHALL BE EXCAVATED TO THE WEST OF THE HOUSE TO ALLOW SETTLING OF MATERIALS. IF AN OVERFLOW IS NECESSARY IT SHALL BE COMPRISED OF A CRUSHED STONE SWALE, TERMINATING 10 FEET FROM THE EROSION BARRIER.

FOUNDATIONS SHALL BE IMMEDIATELY BACKFILLED AND THE AREA GRADED TO ALLOW FINAL LANDSCAPING TO OCCUR AS SOON AS HOUSE CONSTRUCTION IS COMPLETED. WOODCHIPS MAY BE PLACED ON THE GROUND SURFACE DURING THE INTERIM PERIOD.

HOUSE CONSTRUCTION

MATERIALS AND EQUIPMENT FOR THE REAR ADDITION SHALL BE TRANSPORTED AROUND THE WEST END OF THE HOUSE. MINIMAL STOCKPILING OF MATERIALS BETWEEN THE HOUSE AND WETLANDS SHALL OCCUR.

RUNOFF FROM ROOFS CAN RESULT IN CONCENTRATED RUNOFF AND EROSION, SO SAFEGUARDS SHALL BE PLACED TO DECREASE GROUND IMPACTS AND PROVIDE SPREADING.

THE SITE SHALL BE KEPT NEAT AND ORDERLY, AND CONTAINERS CAPABLE OF CONTAINING ALL REFUSE SHALL BE KEPT ONSITE AND PROPERLY MAINTAINED.

STABILIZATION

STABILIZATION OF SURFACES SHALL BE AN ONGOING PROCESS AND NOT BE DELAYED UNTIL FINAL LANDSCAPING.

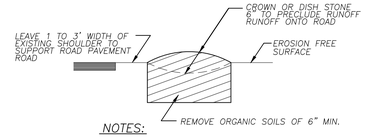
TOPSOIL HAS A HIGH EROSION POTENTIAL AND SHALL ONLY BE PLACED WHEN GRASS GROWTH CAN OCCUR IN A TWO WEEK PERIOD, GENERALLY 4/15 TO 6/15 AND 8/15 TO 9/30.

SPECIAL EMPHASIS SHALL BE GIVEN TO STABILIZING THE AREA TO THE REAR OF THE HOUSE.

THE SITE WILL NOT BE CONSIDERED AS BEING COMPLETE UNTIL ALL BARRIERS ARE REMOVED, ALL SURFACES ARE EROSION-RESISTANT, THE TEMPORARY CONSTRUCTION ENTRANCES ARE REMOVED, AND THE AREA WITHIN THE PERKINS LANE RIGHT-OF-WAY IS RESTORED TO ITS ORIGINAL CONDITION.

RIVERFRONT AREA ON SITE: 72,993 SF

	EXISTING	AS APPROVED DEP 85-1169	PROPOSED 2/26/16
BUILDING FOOTPRINT:	1,921 SF	3,181 SF	2,630 SF
RIVERFRONT ALTERATION:			
0'-100'	NA	0 SF	0 SF
100'-200'	NA	1,259 SF	2,781 SF
ALTERATION FOR ADDITION WITHIN 75' OF BVW	NA	266 SF	233 SF
WETLAND SETBACK:			
EXISTING GARAGE	38.3'	38.3'	38.3'
PROPOSED ADDITION	NA	66'	68'

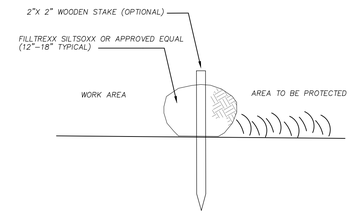


NOTES:

1. STONE SHALL BE 1-3" IN SIZE AND INSTALLED TO REMOVE AND ENTRAP MATERIALS FROM TIRES AND NOT BE TRANSPORTED TO ROAD.
2. STONE SHALL EXTEND ACROSS FULL WIDTH OF ENTRANCE AND BE OF SUFFICIENT LENGTH TO PRECLUDE MUD FROM REACHING ROAD.
3. STONE SHALL BE REPLACED AS REQUIRED TO INSURE MUD REMOVAL.

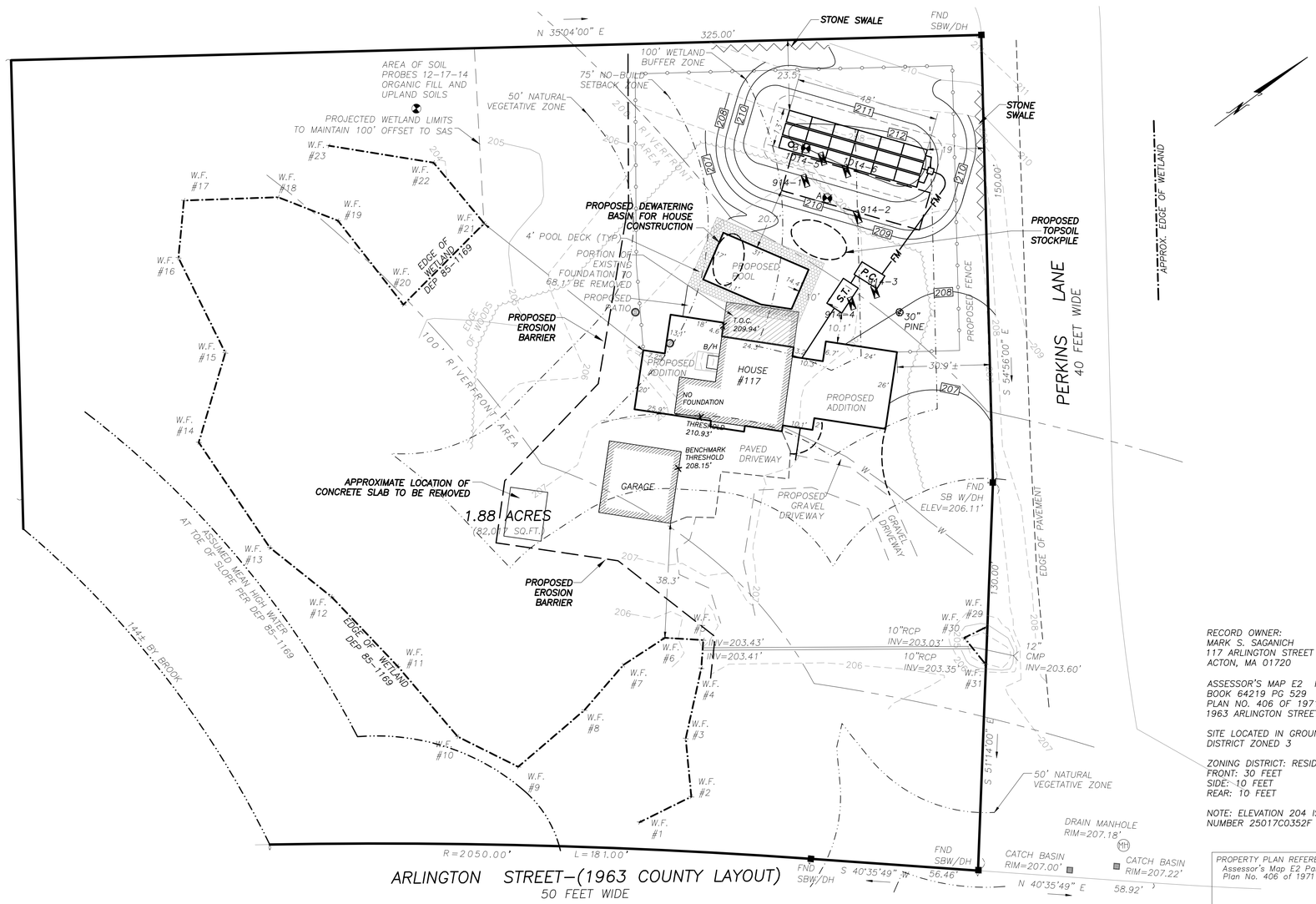
TEMPORARY CONSTRUCTION ENTRANCE

N.T.S.



EROSION CONTROL BARRIER (STRAW WATTLE)

N.T.S.



RECORD OWNER:
MARK S. SAGANICH
117 ARLINGTON STREET
ACTON, MA 01720

ASSESSOR'S MAP E2 PARCEL 233
BOOK 64219 PG 529
PLAN NO. 406 OF 1971
1963 ARLINGTON STREET COUNTY LAYOUT

SITE LOCATED IN GROUND WATER PROTECTION DISTRICT ZONED 3

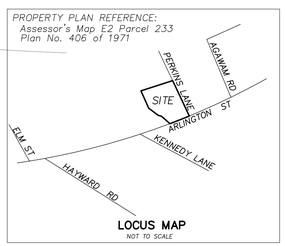
ZONING DISTRICT: RESIDENCE 2
FRONT: 30 FEET
SIDE: 10 FEET
REAR: 10 FEET

NOTE: ELEVATION 204 IS FEMA ZONE AE PER MAP NUMBER 25017C0352F REVISED JULY 7, 2014

LEGEND

S.T.	SEPTIC TANK
D-BOX	DISTRIBUTION BOX
	OBSERVATION HOLE (TEST PIT)
	PERCOLATION TEST
190x5	SPOT ELEVATIONS
100	EXISTING 5' CONTOURS
98	EXISTING 1' CONTOURS
190	PROPOSED CONTOURS
W	PRESSURED WATER LINE

PROPERTY PLAN REFERENCE:
Assessor's Map E2 Parcel 233
Plan No. 406 of 1971



LOCUS MAP
NOT TO SCALE

117 ARLINGTON ST
ACTON, MA 01720

PREPARED FOR:

MARK SAGANICH
117 ARLINGTON STREET
ACTON, MA 01720

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Land Surveyors
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DATE	ISSUE/REVISION DESCRIPTION
2/26/16	ADDITION FOOTPRINT & POOL
12/16/14	MEAN ANNUAL HIGH WATER & TEST PIT

DATE:	10/8/14	DESIGN BY:	MTD
SCALE:	1" = 20'	DRAWN BY:	BDA
APPRVD. BY:	MTD	CHECK BY:	MTD

NOTICE OF INTENT PLAN

DWG:18567-base
LAYOUT: E&S
SHEET: 1 OF 1

NOI

PROJECT NO.: 18567