

PROPOSED COMMON DRIVEWAY 147 LONG HILL ROAD

LOTS 1-5
BOLTON, MASSACHUSETTS

GENERAL NOTES:

- TOPOGRAPHICAL INFORMATION SHOWN ON THIS PLAN WAS PREPARED BY DUCHARME & DILLIS CIVIL DESIGN GROUP, INC. BASED ON AN ON-THE-GROUND SURVEY AND COMPILED USGS INFORMATION. ELEVATIONS REFER TO NAVD 1988.
- PROPERTY LINE INFORMATION SHOWN ON THIS PLAN WAS PREPARED BY DUCHARME & DILLIS CIVIL DESIGN GROUP, INC. BASED ON AN ON-THE-GROUND SURVEY AND RECORDED PLANS AND DEEDS.
- RESOURCE AREAS AS DEFINED BY THE MASSACHUSETTS WETLANDS PROTECTION ACT AND THE TOWN OF BOLTON WETLANDS BYLAW WERE DELINEATED BY DUCHARME & DILLIS CIVIL DESIGN GROUP, INC.
- EXISTING UTILITIES SHOWN ON THIS PLAN WERE COMPILED FROM FIELD MEASUREMENT AND RECORD PLANS. THE UTILITIES SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND SHOULD NOT BE ASSUMED TO BE CORRECT NOR SHOULD IT BE ASSUMED THAT THE UTILITIES SHOWN ARE THE ONLY UTILITIES LOCATED ON OR NEAR THE SITE. THE CONTRACTOR SHALL CALL DIG SAFE 1-888-DIG-SAFE PRIOR TO CONSTRUCTION IN ACCORDANCE WITH STATE LAWS.
- THIS PLAN IS INTENDED FOR THE FILING OF A COMMON DRIVEWAY SPECIAL PERMIT APPLICATION WITH THE BOLTON PLANNING BOARD AND A NOTICE OF INTENT APPLICATION WITH THE BOLTON CONSERVATION COMMISSION. IT SHOULD NOT BE USED FOR ANY OTHER PURPOSE.

VARIANCES / WAIVERS REQUIRED

BOLTON ZONING BYLAW § 250.17.B VARIANCES:
NONE REQUIRED.

BOLTON PLANNING BOARD RULES & REGULATIONS WAIVERS:

- DRIVEWAY CROWN A WAIVER TO REGULATION 5.(F) DESIGN CRITERIA - TO ALLOW THE DRIVEWAY TO BE SUPER ELEVATED IN PLACES AS OPPOSED TO CROWN TO ACCOMMODATE THE DRAINAGE TO FUNCTION AS DESIGNED.
- A WAIVER TO REGULATION 5.(B) DESIGN CRITERIA - TO ALLOW THE CENTERLINE OF THE PROPOSED DRIVEWAY TO BE LESS THAN 25' FROM PROPERTY LINE NOT SERVICED BY THE COMMON DRIVEWAY.

SHEET INDEX

SHEET NUMBER	SHEET TITLE
SHEET 1	TITLE SHEET
SHEET 2-3	GRADING & DRAINAGE PLAN
SHEET 4	DRIVEWAY PROFILE
SHEET 5-6	CONSTRUCTION NOTES & DETAILS
SHEET 7	WETLAND CROSSING & REPLICATION PLAN
SHEET 8	MITIGATION PLAN

RESERVED FOR REGISTRY USE

COMMONWEALTH OF MASSACHUSETTS
OFFICE OF DEEDS-WORCESTER, MA
PLAN BOOK 914 PLAN 21
Received 7/8/15
12 h 20 m
Sheet 1 of 8
With Doc. #
in BOOK PAGE
Fee \$ 600.

ATTEST: *[Signature]*
Registrar



LOCUS MAP

SCALE: 1"=1000'±

SPECIAL PERMIT APPROVAL IN ACCORDANCE WITH THE TOWN OF BOLTON ZONING BYLAW § 250.17.B - COMMON DRIVEWAYS

[Signature] 10 June 2015
[Signature]
[Signature]
[Signature]
[Signature]

BEING A MAJORITY OF THE BOLTON PLANNING BOARD

DATE ENDORSED: _____

SPECIAL PERMIT ISSUED BY BOLTON PLANNING BOARD FILED WITH THE TOWN CLERK ON April 24, 2015

I, *Pamela A. Powell* CLERK OF THE TOWN OF BOLTON HEREBY CERTIFY THAT THE NOTICE OF THE APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED BY THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE TWENTY (20) DAYS NEXT AFTER RECEIPT AND RECORDING OF SAID NOTICE.

Pamela A. Powell July 8, 2015
BOLTON TOWN CLERK DATE

LEGEND

DESCRIPTION	EXISTING DRAWING ENTITY	PROPOSED DRAWING ENTITY
DENOTES CONTOUR (INDEX)	100	100
DENOTES CONTOUR (INTERMEDIATE)	98	98
DENOTES SEWER LINE	S	S
DENOTES WATER LINE	W	W
DENOTES OVERHEAD WIRES	OW	OW
DENOTES UNDERGROUND UTILITIES		ETC
DENOTES DRAIN MANHOLE	⊙	⊙
DENOTES CATCH BASIN	⊕	⊕
DENOTES SEWER MANHOLE	⊗	⊗
DENOTES EROSION CONTROL BARRIER	—	—
DENOTES UTILITY POLE	⊙	⊙
DENOTES EMERG. ACCESS DIRECTION SIGN	⊙	⊙
DENOTES WETLAND FLAG	⊙	⊙
DENOTES EDGE OF WETLAND	⊙	⊙
DENOTES 100' WETLAND BUFFER LIMIT	—	—

PREPARED BY:

DUCHARME & DILLIS
Civil Design Group, Inc.
CIVIL ENGINEERS • LAND SURVEYORS • WETLAND CONSULTANTS

1092 MAIN STREET, P.O. BOX 428 BOLTON, MASSACHUSETTS 01740 PHONE: (978) 779-6091 FAX: (978) 779-0260 www.DucharmeandDillis.com

OWNER:

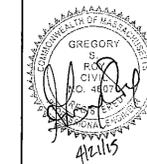
DUANE HENRY
147 LONG HILL ROAD
BOLTON, MASSACHUSETTS

APPLICANT:

APPLEWOOD CONSTRUCTION
92 MIDDLESEX ROAD
TYNGSBORO, MASSACHUSETTS

SCALE:

COPYRIGHT DUCHARME & DILLIS CIVIL DESIGN GROUP, INC 2015



DATE: 12/24/14

DESIGN BY: GSR

DRAWN BY: GSR

CHECKED BY: GSR

TITLE SHEET
147 LONG HILL ROAD - COMMON DRIVE
BOLTON, MASSACHUSETTS

NO.	DATE	DESCRIPTION	BY
1	3/10/15	REVISIONS PER HEI COMMENTS DATED 2/3/15	WJM
2	4/7/15	REVISIONS PER HEI COMMENTS & DRIVE LOC.	GSR
3	4/21/15	REVISIONS PER CONSERVATION COMMISSION COMMENTS	BJD

JOB NO. 3354-A

DRAWING NO. 3354A-DRV

SHEET NO. 1 OF 8



DETENTION VOLUME SCHEDULE:

STORMWATER MANAGEMENT AREA #1			
ELEV	AREA	INC. VOL.	TOTAL VOL.
348	122 SF	0 CF	0 CF
350	797 SF	821 CF	821 CF
352	3,075 SF	3,825 CF	4,446 CF
354	6,772 SF	8,607 CF	14,052 CF (OR 521 C.Y.)

STORMWATER MANAGEMENT AREA #2			
ELEV	AREA	INC. VOL.	TOTAL VOL.
349	113 SF	0 CF	0 CF
350	564 SF	310 CF	310 CF
352	3,193 SF	3,399 CF	3,709 CF (OR 138 C.Y.)

DRAINAGE STRUCTURE SCHEDULE:

CB-1 PRECAST RC RIM = 351.15 12" RCP INV. OUT=348.40	DP-1 RCP, C76-111 SLOPE = 1.0% LENGTH = 5' INLET INV.=348.40 OUTLET INV.=348.35	DP-3 RCP, C76-111 SLOPE = 0.5% LENGTH = 60' INLET INV.=348.25 OUTLET INV.=348.00	DP-8 RCP, C76-111 SLOPE = 2.1% LENGTH = 45' INLET INV.=344.40 (BURY TO EL=345.2) OUTLET INV.=343.20 (BURY TO EL=344.20)
CB-2 PRECAST RC RIM = 351.15 12" RCP INV. OUT=348.40	DP-2 RCP, C76-111 SLOPE = 1.0% LENGTH = 5' INLET INV.=348.40 OUTLET INV.=348.35	DP-4 RCP, C76-111 SLOPE = 3.75% LENGTH = 40' (SEE PROFILE FOR INVERTS)	DP-9 ADS, N-12 SLOPE = 1.4% LENGTH = 37' INLET INV.=347.50 OUTLET INV.=347.00
DMH-1 PRECAST RC RIM = 351.60 12" RCP INV. IN 348.35 12" RCP INV. IN 348.35 12" RCP INV. OUT 348.25			DP-10 ADS, N-12 SLOPE = 1.9% LENGTH = 26' INLET INV.=348.50 OUTLET INV.=348.00

RESERVED FOR REGISTRY USE

PLAN BOOK 914 PLAN 21
SHEET 2 OF 8

SPECIAL PERMIT APPROVAL IN ACCORDANCE WITH THE TOWN OF BOLTON ZONING BYLAW § 250.17.B - COMMON DRIVEWAYS

Eric Nylund
John P. ...
Andrew ...

BEING A MAJORITY OF THE BOLTON PLANNING BOARD

DATE ENDORSED: _____

SPECIAL PERMIT ISSUED BY BOLTON PLANNING BOARD FILED WITH THE TOWN CLERK ON 7/11/21, 2015

Pamela H. Powell CLERK OF THE TOWN OF BOLTON
HEREBY CERTIFY THAT THE NOTICE OF THE APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED BY THIS OFFICE AND NO APPEAL HAS BEEN RECEIVED DURING THE TWENTY (20) DAYS NEXT AFTER RECEIPT AND RECORDING OF SAID NOTICE.

Pamela H. Powell July 8, 2015
BOLTON TOWN CLERK DATE

PREPARED BY:

DUCHARME & DILLIS
Civil Design Group, Inc.
CIVIL ENGINEERS • LAND SURVEYORS • WETLAND CONSULTANTS

1092 MAIN STREET, P.O. BOX 428 BOLTON, MASSACHUSETTS 01740
PHONE: (978) 779-6091 FAX: (978) 779-0260
www.DucharmeandDillis.com

OWNER:

DUANE HENRY
147 LONG HILL ROAD
BOLTON, MASSACHUSETTS

APPLICANT:

APPLEWOOD CONSTRUCTION
92 MIDDLESEX ROAD
TYNGSBORO, MASSACHUSETTS

SCALE:

COPYRIGHT DUCHARME & DILLIS CIVIL DESIGN GROUP, INC 2015

DATE: 12/24/14

DESIGN BY: GSR

DRAWN BY: GSR

CHECKED BY: GSR

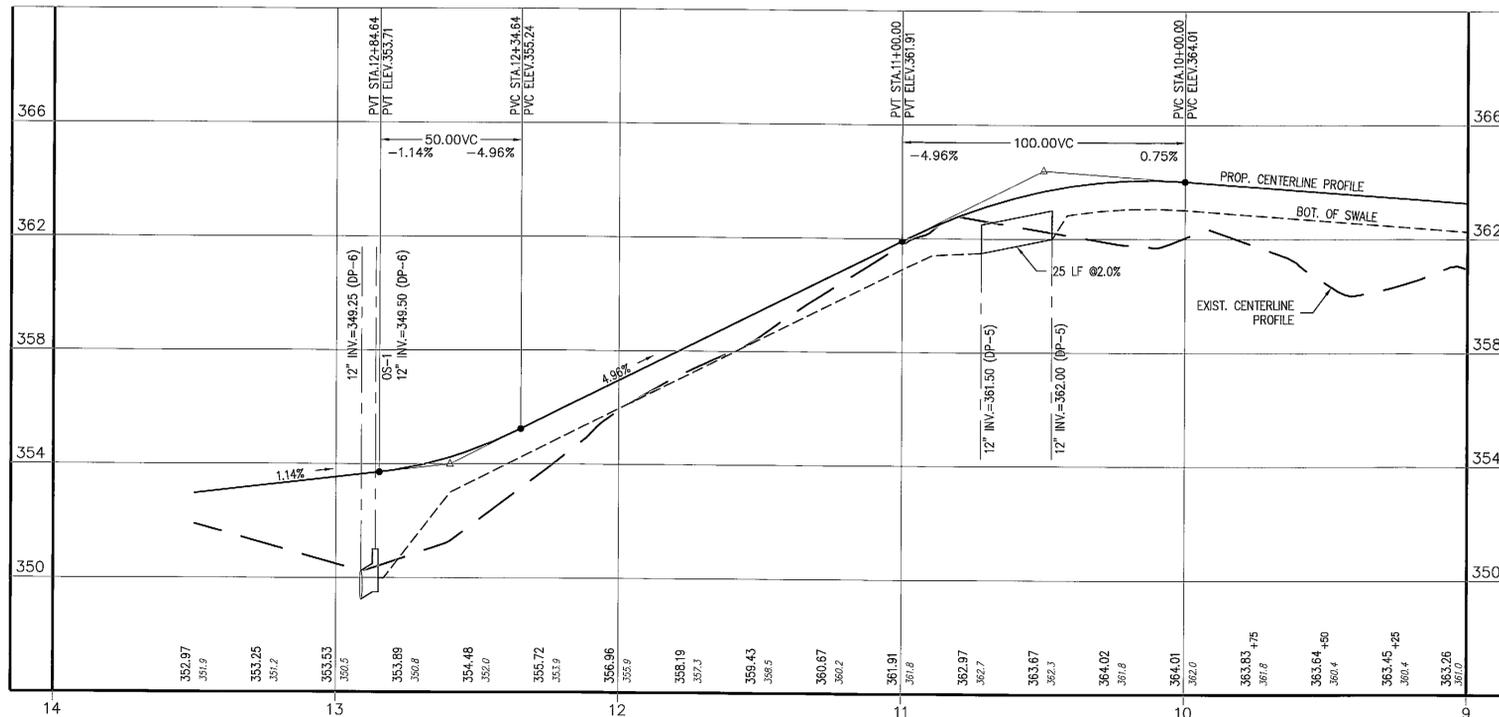
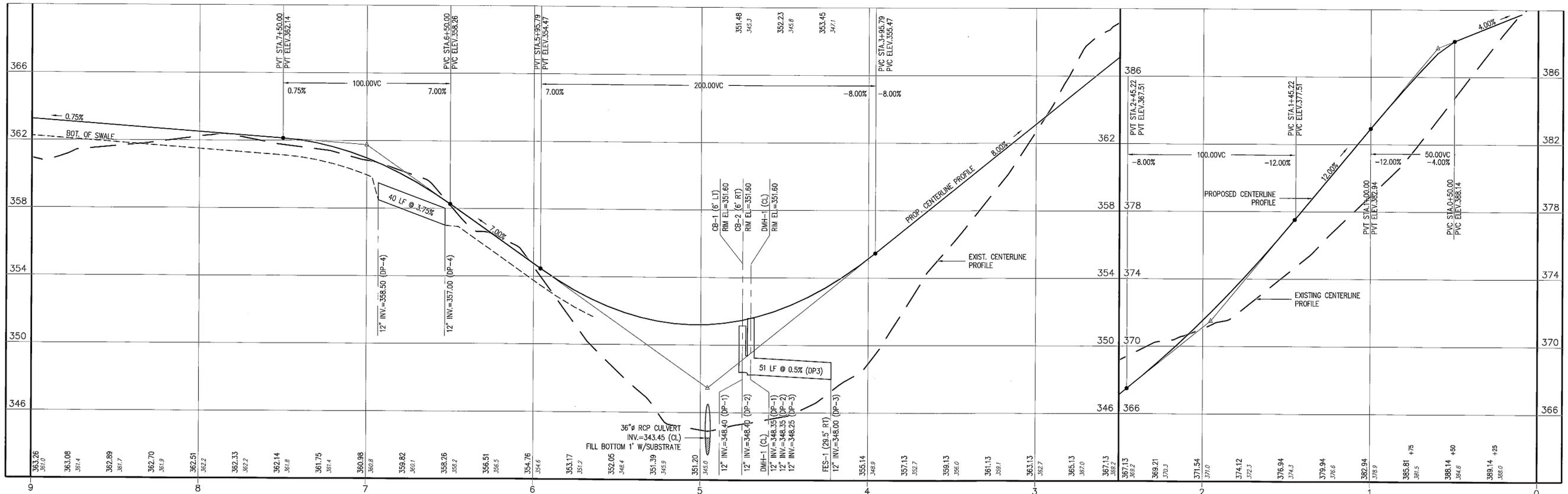
GRADING & DRAINAGE PLAN
147 LONG HILL ROAD - COMMON DRIVE
BOLTON, MASSACHUSETTS

NO.	DATE	DESCRIPTION	BY
1	3/10/15	REVISIONS PER HEI COMMENTS DATED 2/3/15	WJM
2	4/7/15	REVISIONS PER HEI COMMENTS & DRIVE LOC.	GSR
3	4/21/15	REVISIONS PER CONSERVATION COMMISSION COMMENTS	BJD

JOB NO. 3354-A

DRAWING NO. 3354A-DRV

SHEET NO. **2** OF 8



RESERVED FOR REGISTRY USE

PLAN BOOK 914 PLAN 21
SHEET 7 OF 8

SPECIAL PERMIT APPROVAL IN ACCORDANCE WITH THE TOWN OF BOLTON ZONING BYLAW § 250.17.B - COMMON DRIVEWAYS

10 Jan 2015
Curt Maynard
John Baker
John D. V...
BEING A MAJORITY OF THE BOLTON PLANNING BOARD

DATE ENDORSED: _____

SPECIAL PERMIT ISSUED BY BOLTON PLANNING BOARD FILED WITH THE TOWN CLERK ON 7/18/2015

Pamela H. Powell
CLERK OF THE TOWN OF BOLTON
HEREBY CERTIFY THAT THE NOTICE OF THE APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED BY THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE TWENTY (20) DAYS NEXT AFTER RECEIPT AND RECORDING OF SAID NOTICE.
Pamela H. Powell July 8, 2015
BOLTON TOWN CLERK DATE

PREPARED BY:

DUCHARME & DILLIS
Civil Design Group, Inc.
CIVIL ENGINEERS • LAND SURVEYORS • WETLAND CONSULTANTS

1092 MAIN STREET, P.O. BOX 428
BOLTON, MASSACHUSETTS 01740

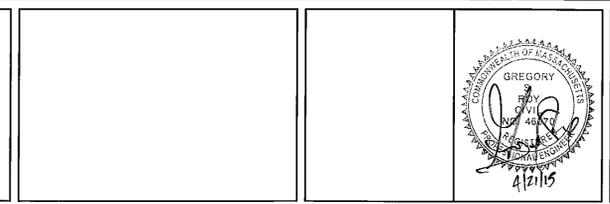
PHONE: (978) 779-6091 FAX: (978) 779-0260
www.DucharmeandDillis.com

OWNER:
DUANE HENRY
147 LONG HILL ROAD
BOLTON, MASSACHUSETTS

APPLICANT:
APPLEWOOD CONSTRUCTION
92 MIDDLESEX ROAD
TYNGSBORO, MASSACHUSETTS

SCALE:

COPYRIGHT DUCHARME & DILLIS CIVIL DESIGN GROUP, INC 2015



DATE: 12/24/14
DESIGN BY: GSR
DRAWN BY: GSR
CHECKED BY: GSR

PROFILE SHEET
147 LONG HILL ROAD - COMMON DRIVE
BOLTON, MASSACHUSETTS

NO.	DATE	DESCRIPTION	BY
1	3/10/15	REVISIONS PER HEI COMMENTS DATED 2/3/15	WJM
2	4/7/15	REVISIONS PER HEI COMMENTS & DRIVE LOC.	GSR
3	4/21/15	REVISIONS PER CONSERVATION COMMISSION COMMENTS	BD

JOB NO. 3354-A
DRAWING NO. 3354A-DRV
SHEET NO. 4 OF 8

NOTES/SPECIFICATIONS:

ALL CONSTRUCTION SHALL CONFORM TO THE BOLTON PLANNING BOARD RULES & REGULATIONS FOR COMMON DRIVEWAYS AND THE BOLTON ZONING BYLAW SECTION 2.4.1.2 UNLESS OTHERWISE NOTED. IN THE EVENT OF A CONFLICT BETWEEN THE REGULATIONS AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CLARIFICATION PRIOR TO CONSTRUCTION.

HOUSE - STREET DISTANCE:
THE MAXIMUM DISTANCE FROM THE TRAVELED WAY TO EACH HOUSE MEASURED ALONG THE CENTERLINE OF THE PROPOSED COMMON AND INDIVIDUAL DRIVEWAY SHALL BE 1,800 FEET.

1.0 MATERIALS

- 1.1 PIPE & FITTINGS**
 - 1.1.1 STORM DRAIN PIPE SHALL BE AS SHOWN ON THE PLANS. ALL DRAIN PIPE SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 CLASS III.
 - 1.1.2 FLARED END SECTIONS SHALL BE PLACED AS SHOWN ON THE PLAN. REFER TO THE DETAIL HEREON.
- 1.2 BITUMINOUS PAVEMENT**
 - 1.2.1 ASPHALT FOR COMMON DRIVEWAY SHALL BE 1 1/2" WEARING COURSE, COMPACTED, CONFORMING TO SSHB M03.11.03 TYPE A TOP COURSE OVER 2" BINDER COURSE, COMPACTED, CONFORMING TO SSHB M03.11.03 TYPE A BINDER COURSE.
 - 1.2.2 ASPHALT FOR SINGLE FAMILY DRIVEWAYS SHALL BE 1 1/2" WEARING COURSE, COMPACTED, CONFORMING TO SSHB M03.11.03 TYPE A TOP COURSE OVER 1 1/2" BINDER COURSE, COMPACTED, CONFORMING TO SSHB M03.11.03 TYPE A BINDER COURSE.
 - 1.2.3 NO PAVING SHALL OCCUR BETWEEN NOVEMBER 15th-APRIL 1st.
- 1.3 SOIL MATERIALS**
 - 1.3.1 ROAD GRAVEL SHALL BE PLACED AS SHOWN ON THE ROAD CROSS SECTIONS HEREON. PLACE 8" OF GRAVEL, COMPACTED, CONFORMING TO SSHB M1.03.0 TYPE C.
 - 1.3.2 STRUCTURAL FILL SHALL CONFORM TO SSHB M1.03.0 GRAVEL BORROW.
 - 1.3.3 COMMON FILL SHALL CONFORM TO SSHB M1.01.0 ORDINARY BORROW.
 - 1.3.4 TOPSOIL SHALL CONFORM TO SSHB M1.07.0 TOPSOIL AND PLANTABLE SOIL BORROW.
 - 1.3.5 TOPSOIL USED TO RESTORE THE BOTTOMS OF SWALES SHALL BE A 50%/50% MIX OF M1.07.0 AND M1.04.1 (SAND FOR SUBDRAINS).
 - 1.3.6 CULVERT SUBSTRATE - FILL THE BOTTOM 1" OF THE PROPOSED 36" CULVERT WITH NATURAL ROCK SUBSTRATE TO BE AN EVEN GRADATION OF 4" MINUS DOWN TO 3/4".
- 1.4 STONE RIP RAP**
 - 1.4.1 STONE RIP RAP SHALL BE ANGULAR AND SHALL CONFORM TO SSHB M2.02.3 STONE FOR PIPE ENDS.
 - 1.4.2 STONE RIP RAP SHALL BE UNDERLAIN WITH 8" (MIN.) GRAVEL.
 - 1.4.3 GRAVEL BASE FOR RIP RAP SHALL BE UNDERLAIN WITH FILTER FABRIC SIMILAR TO TENCATE MIRAFI N140.
 - 1.4.4 STONE RIP RAP SHALL BE PLACED IN THE LOCATIONS AND QUANTITIES SHOWN ON THIS PLAN.
 - 1.4.5 RIP RAP SHALL BE PLACED SUCH THAT THE TOPS OF THE ROCKS ARE AT FINAL FINISHED GRADE. CONTRACTOR TO EXCAVATE SUBGRADE TO 1.5-FOOT (MIN.) BELOW FINAL FINISHED GRADES TO ACCOMMODATE GRAVEL AND STONE RIP RAP.
- 1.5 HEADWALLS**
 - 1.5.1 REFER TO THE DETAIL HEREON FOR ADDITIONAL INFORMATION.
 - 1.5.2 SHALL BE CONSTRUCTED OF FIELDSTONE GROUTED IN PLACE, UNLESS OTHERWISE NOTED.
 - 1.5.3 ADJUST WINGWALL ANGLES AND ELEVATIONS TO CONFORM TO THE ADJACENT FILL. SET TOP OF WINGWALLS AND HEADWALL 3" ABOVE FINAL FINISHED GRADES MEASURED FROM THE BACK OF THE HEADWALL.
- 1.6 GUARDRAIL**
 - 1.6.1 GUARDRAIL SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPROVED MASS HIGHWAY DETAILS AND PRACTICES.
 - 1.6.2 GUARDRAIL SHALL BE WOODEN WITH STEEL REINFORCEMENT CONFORMING TO THE REQUIREMENTS OF MASS HIGHWAY STANDARDS.
 - 1.6.3 CONTRACTOR TO SUBMIT DRAWINGS FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION OF THE GUARDRAIL.

2.0 DRAINAGE SPECIFICATIONS

- 2.1 SWALE CONSTRUCTION**
 - 2.1.1 SWALES SHALL BE CONSTRUCTED AS SHOWN ON THE DRIVEWAY CROSS-SECTION DETAIL HEREON.
- 2.2 STORM DRAIN PIPE CONSTRUCTION**
 - 2.2.1 REFER TO DETAIL HEREON FOR TRENCH BACKFILL REQUIREMENTS.
 - 2.2.2 PIPE SHALL BE PLACED WITH THE BELL ENDS FACING UPHILL.
 - 2.2.3 WEAP JOINTS UNDER PAVEMENT WITH FILTER FABRIC PRIOR TO PLACING BACKFILL.

3.0 DRIVEWAY AND CULVERT CONSTRUCTION

- 3.1 SINGLE FAMILY DRIVEWAYS SHALL BE 1 1/2" WEARING COURSE, OVER 1 1/2" BINDER COURSE, OVER 8" OF GRAVEL.
- 3.2 SINGLE FAMILY DRIVEWAYS SHALL BE A MINIMUM OF 10-FOOT IN WIDTH (MINIMUM).
- 3.3 COMMON DRIVEWAY SHALL BE 1 1/2" WEARING COURSE OVER, 2" BINDER COURSE, OVER 8" GRAVEL.
- 3.4 COMMON DRIVEWAY SHALL BE 12-FOOT IN WIDTH (MINIMUM).
- 3.5 REFER TO SECTION 1.0 OF THESE NOTES FOR MATERIAL SPECIFICATIONS.
- 3.6 CULVERT INLETS AND OUTLETS SHALL BE EQUIPPED WITH FLARED END SECTIONS OR HEADWALLS AS SHOWN ON THE PLAN.

4.0 MISCELLANEOUS ITEMS

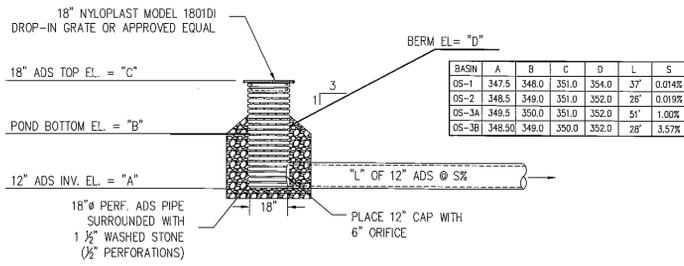
- 4.1 PLACE EMERGENCY ACCESS DIRECTION SIGNS REQUIRED BY THE BOLTON REGULATIONS AT THE LOCATIONS SHOWN ON THE PLAN.

5.0 RESTORATION

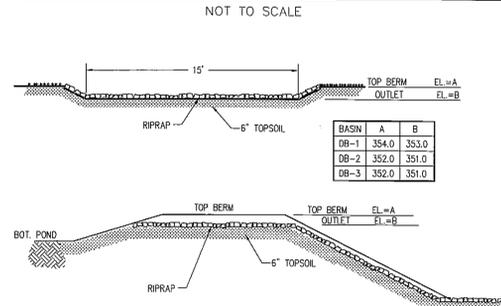
- 5.1 RESTORE ALL DISTURBED AREAS WITH A MINIMUM OF 6" TOPSOIL, SEED, FERTILIZER AND MULCH.
- 5.2 THE CONTRACTOR IS RESPONSIBLE FOR THE ESTABLISHMENT OF VEGETATION PRIOR FINAL SIGN-OFF OR REMOVAL OF EROSION CONTROL BARRIERS.
- 5.3 GRASS SEED SHALL BE SELECTED BASED ON THE SHADE/SUN CONDITIONS WHICH WILL EXIST.

6.0 CONSTRUCTION SEQUENCE

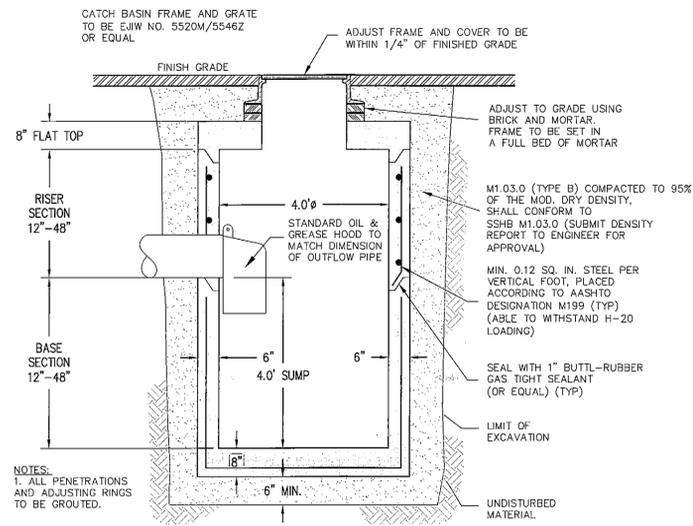
- 6.1 DURING THIS SEQUENCE ALL EROSION CONTROLS SHALL BE INSPECTED AND MAINTAINED. ALL DISTURBED AREAS SHALL BE STABILIZED BY SEEDING OR SODDING AS SOON AS POSSIBLE AFTER GRADING IS COMPLETE. EROSION BARRIERS SHALL BE REMOVED AFTER SLOPE STABILIZATION IS COMPLETE.
- 6.2 INSTALL EROSION AND SEDIMENT CONTROL MEASURES.
- 6.3 TREE CLEARING, GRUBBING AND STUMP REMOVAL.
- 6.4 PREPARE WETLAND REPLICATION AREA TO RECEIVE TRANSLOCATED SOIL.
- 6.5 EXCAVATE AND TRANSLocate WETLAND SOIL TO THE PROPOSED WETLAND REPLICATION AREA.
- 6.6 EXCAVATE TO SUB-GRADE IN CUT SECTIONS, BRING FILL SECTIONS TO SUB-GRADE USING EXCAVATED SOIL.
- 6.7 INSTALL CULVERT AND PROPOSED RETAINING WALL AT WETLAND CROSSING.
- 6.8 INSTALL DRAINAGE PIPING, AND APPURTENANCES.
- 6.9 INSTALL ROAD GRAVEL AND ROUGH GRADE SWALES.
- 6.10 CONSTRUCTION STORMWATER MANAGEMENT AREAS.
- 6.11 INSTALL UTILITIES INCLUDING THE DRAINAGE SYSTEM AND SEWER LINE SLEEVES.
- 6.12 FINISH GRADE SWALES.
- 6.13 PLACE RIP RAP IN THE LOCATIONS SPECIFIED ON PLANS.
- 6.14 LOAM, SEED AND MULCH DISTURBED AREAS.
- 6.15 PLACE BINDER COURSE FOR ROADWAY.
- 6.16 REMOVE EROSION CONTROL AFTER SITE HAS BEEN STABILIZED AND AFTER APPROVAL HAS BEEN GIVEN BY THE BOLTON CONSERVATION COMMISSION.



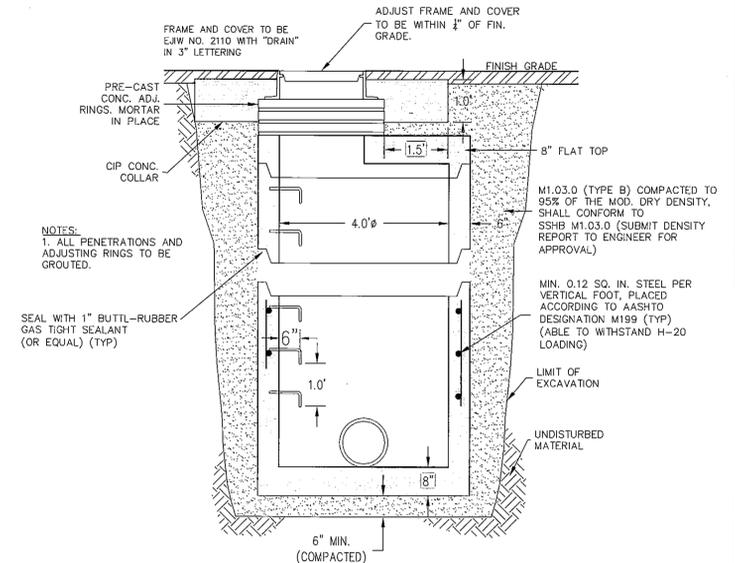
OUTLET CONTROL STRUCTURE #1, 2 & 3



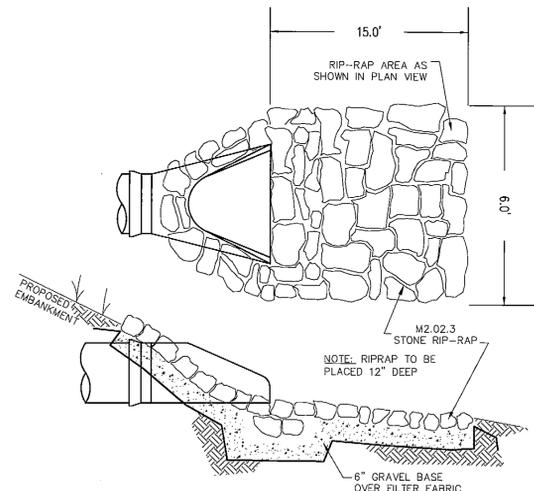
EMERGENCY SPILLWAY



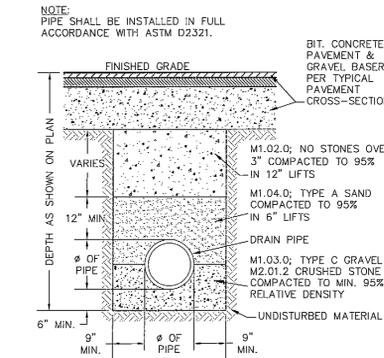
DEEP SUMP CONCRETE CATCH BASIN



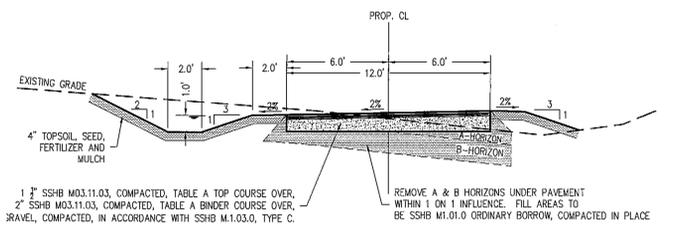
DRAIN MANHOLE DETAIL



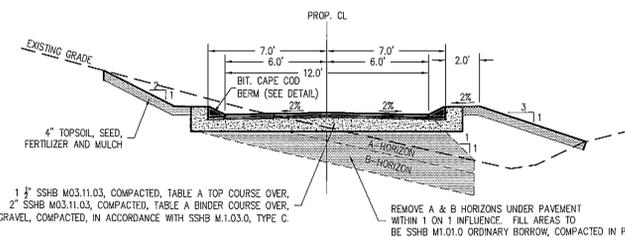
FLARED END SECTION



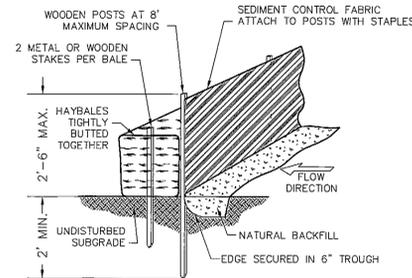
DRAIN PIPE TRENCH DETAIL



TYPICAL COMMON DRIVEWAY CROSS SECTION (STA 5+10 - 13+47)



TYPICAL COMMON DRIVEWAY CROSS SECTION (STA 0+10 - 5+10)



SILTATION BARRIER

RESERVED FOR REGISTRY USE

PLAN BOOK 914 PLAN 21
SHEET 5 OF 8

SPECIAL PERMIT APPROVAL IN ACCORDANCE WITH THE TOWN OF BOLTON ZONING BYLAW § 250.17.B - COMMON DRIVEWAYS

[Signatures]
BEING A MAJORITY OF THE BOLTON PLANNING BOARD

DATE ENDORSED: _____

SPECIAL PERMIT ISSUED BY BOLTON PLANNING BOARD FILED WITH THE TOWN CLERK ON 7/1/2015

[Signature] CLERK OF THE TOWN OF BOLTON
HEREBY CERTIFY THAT THE NOTICE OF THE APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED BY THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE TWENTY (20) DAYS NEXT AFTER RECEIPT AND RECORDING OF SAID NOTICE.
[Signature] BOLTON TOWN CLERK

PREPARED BY:
DUCHARME & DILLIS
Civil Design Group, Inc.
CIVIL ENGINEERS • LAND SURVEYORS • WETLAND CONSULTANTS
1092 MAIN STREET, P.O. BOX 428 BOLTON, MASSACHUSETTS 01740
PHONE: (978) 779-6091 FAX: (978) 779-0260
www.DucharmeandDillis.com

OWNER:
DUANE HENRY
147 LONG HILL ROAD
BOLTON, MASSACHUSETTS

APPLICANT:
APPLEWOOD CONSTRUCTION
92 MIDDLESEX ROAD
TYNGSBORO, MASSACHUSETTS

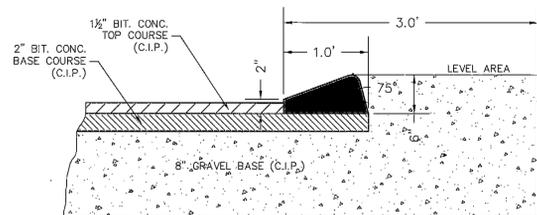
SCALE:
COPYRIGHT DUCHARME & DILLIS CIVIL DESIGN GROUP, INC 2015

DATE: 12/24/14
DESIGN BY: GSR
DRAWN BY: GSR
CHECKED BY: GSR

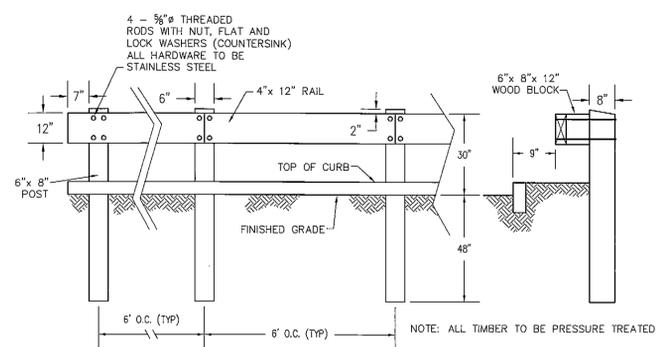
DETAILS SHEET
147 LONG HILL ROAD - COMMON DRIVE
BOLTON, MASSACHUSETTS

NO.	DATE	DESCRIPTION	BY
1	3/10/15	REVISIONS PER HEI COMMENTS DATED 2/3/15	WJM
2	4/7/15	REVISIONS PER HEI COMMENTS & DRIVE LOC.	GSR
3	4/21/15	REVISIONS PER CONSERVATION COMMISSION COMMENTS	BJD

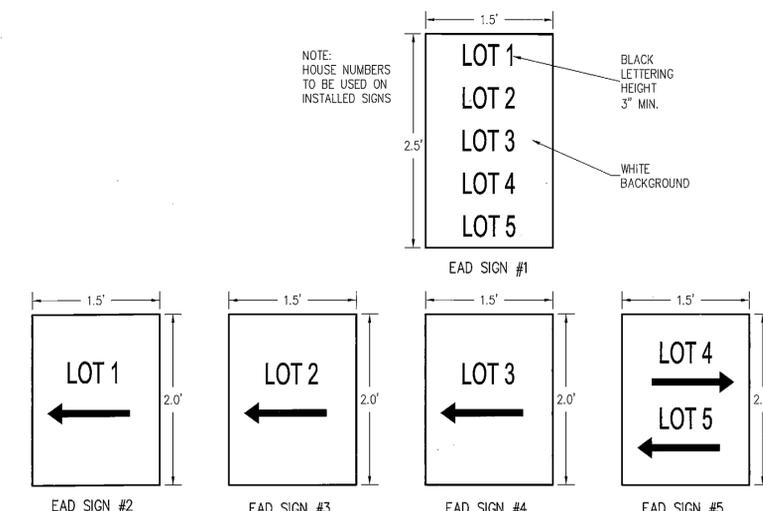
JOB NO. 3354-A
DRAWING NO. 3354A-DRV
SHEET NO. 5 OF 8



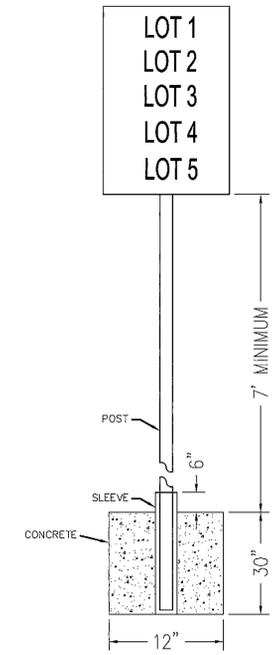
BITUMINOUS CONCRETE CURB DETAIL
NOT TO SCALE



WOODEN GUARDRAIL DETAIL
NOT TO SCALE

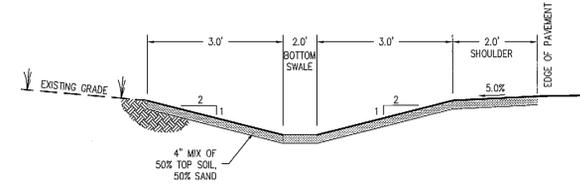


EMERGENCY ACCESS DIRECTION SIGNS
SCALE: 1"=1'

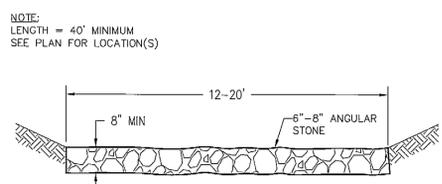


TYPICAL E.A.D. SIGN
NOT TO SCALE

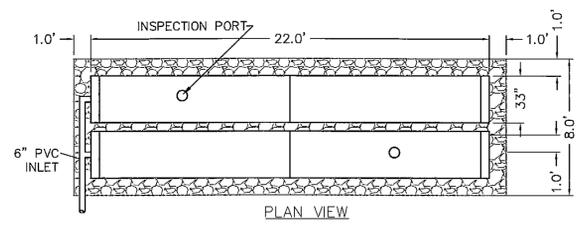
- NOTES:
1. SIGN POSTS SHALL BE 2 INCH GALVANIZED ROUND PIPE 0.095 INCH WALL THICKNESS.
2. CONCRETE SHALL BE CLASS 3000, FINISH TO MATCH EXISTING SIDEWALK.



TYPICAL SWALE SECTION
SCALE: 1"=5'

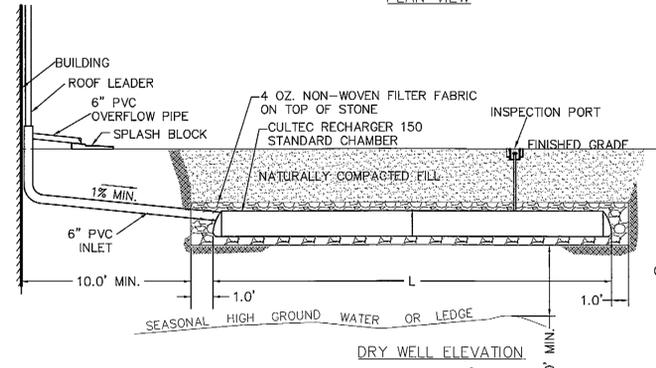


TEMP. CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE

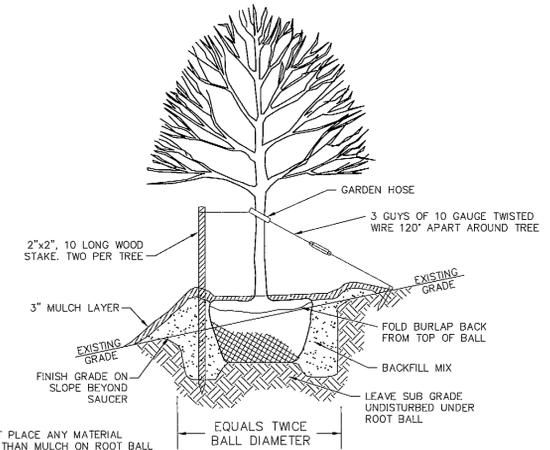
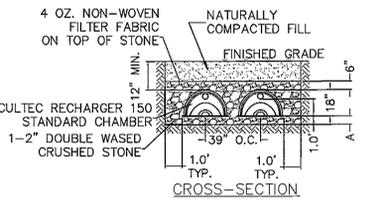


- SPECIFICATIONS**
Length 22.0'
Lay-up Length 11.0'
Width 33"
Height 18.5"
Invert 6"

GENERAL NOTES
RECHARGER 150 BY CULTEC, INC. OF BROOKFIELD, CT. ALL RECHARGER 150 CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES. REFER TO MANUFACTURER, CULTEC, INC.'S RECOMMENDED INSTALLATION GUIDELINES.



ROOF RECHARGE DETAILS
NOT TO SCALE



TREE PLANTING DETAIL
NOT TO SCALE

SPECIAL PERMIT APPROVAL IN ACCORDANCE WITH THE TOWN OF BOLTON ZONING BYLAW § 250.17.B - COMMON DRIVEWAYS

[Signatures]
BEING A MAJORITY OF THE BOLTON PLANNING BOARD

DATE ENDORSED: _____

SPECIAL PERMIT ISSUED BY BOLTON PLANNING BOARD FILED WITH THE TOWN CLERK ON April 21, 2015

Pamela H. Powell, CLERK OF THE TOWN OF BOLTON
HEREBY CERTIFY THAT THE NOTICE OF THE APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED BY THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE TWENTY (20) DAYS NEXT AFTER RECEIPT AND RECORDING OF SAID NOTICE.
Pamela H. Powell July 8, 2015
BOLTON TOWN CLERK DATE

RESERVED FOR REGISTRY USE

PLAN BOOK 914 PLAN #1
SHEET 6 OF 8

PREPARED BY:
DUCHARME & DILLIS
Civil Design Group, Inc.
CIVIL ENGINEERS • LAND SURVEYORS • WETLAND CONSULTANTS
1092 MAIN STREET, P.O. BOX 428 BOSTON, MASSACHUSETTS 01740
PHONE: (978) 779-6091 FAX: (978) 779-0260
www.DucharmeandDillis.com

OWNER:
DUANE HENRY
147 LONG HILL ROAD
BOLTON, MASSACHUSETTS

APPLICANT:
APPLEWOOD CONSTRUCTION
92 MIDDLESEX ROAD
TYNGSBORO, MASSACHUSETTS

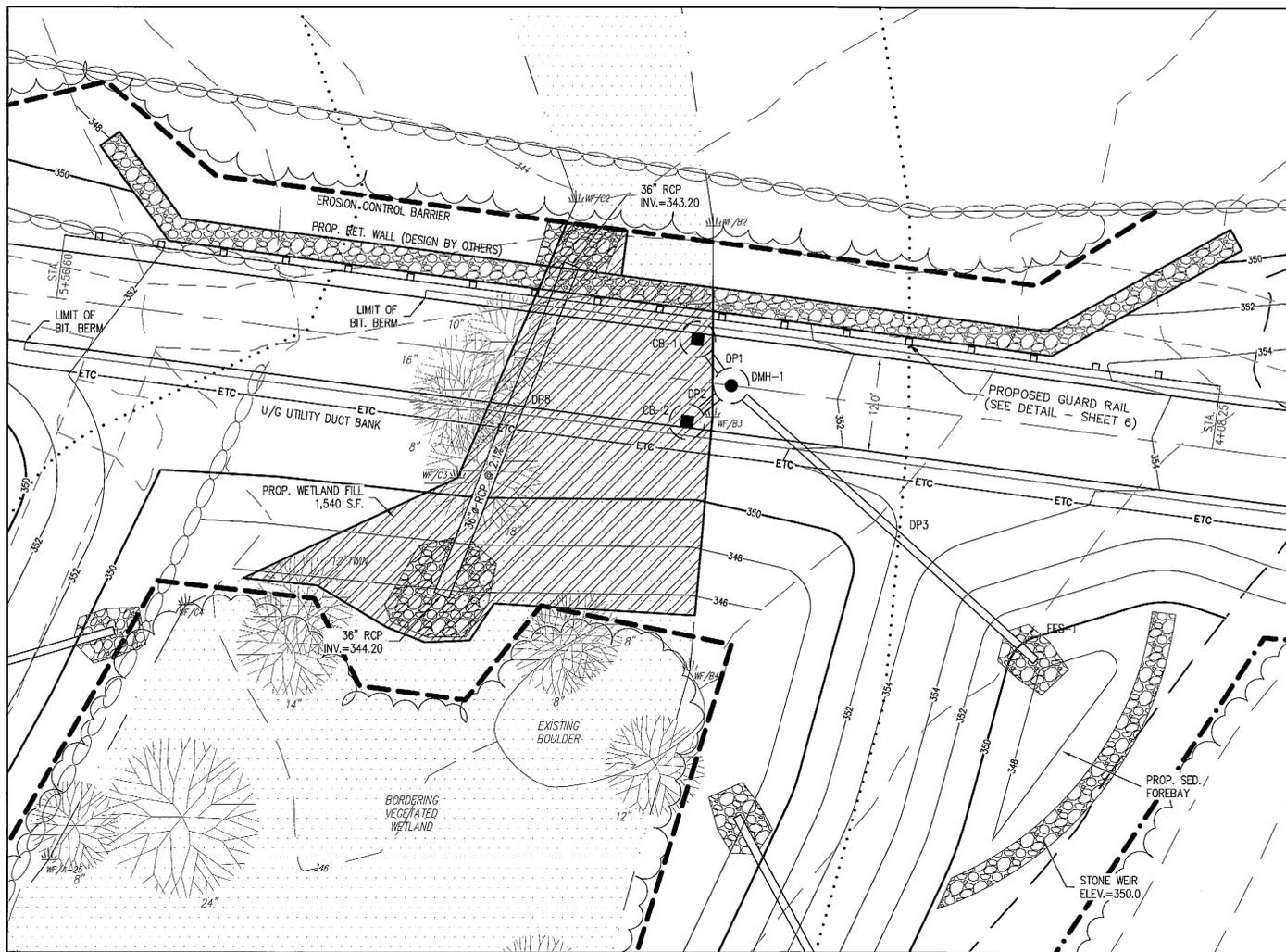
SCALE:
COPYRIGHT DUCHARME & DILLIS CIVIL DESIGN GROUP, INC 2015

DATE: 12/24/14
DESIGN BY: GSR
DRAWN BY: GSR
CHECKED BY: GSR

DETAILS SHEET
147 LONG HILL ROAD - COMMON DRIVE
BOLTON, MASSACHUSETTS

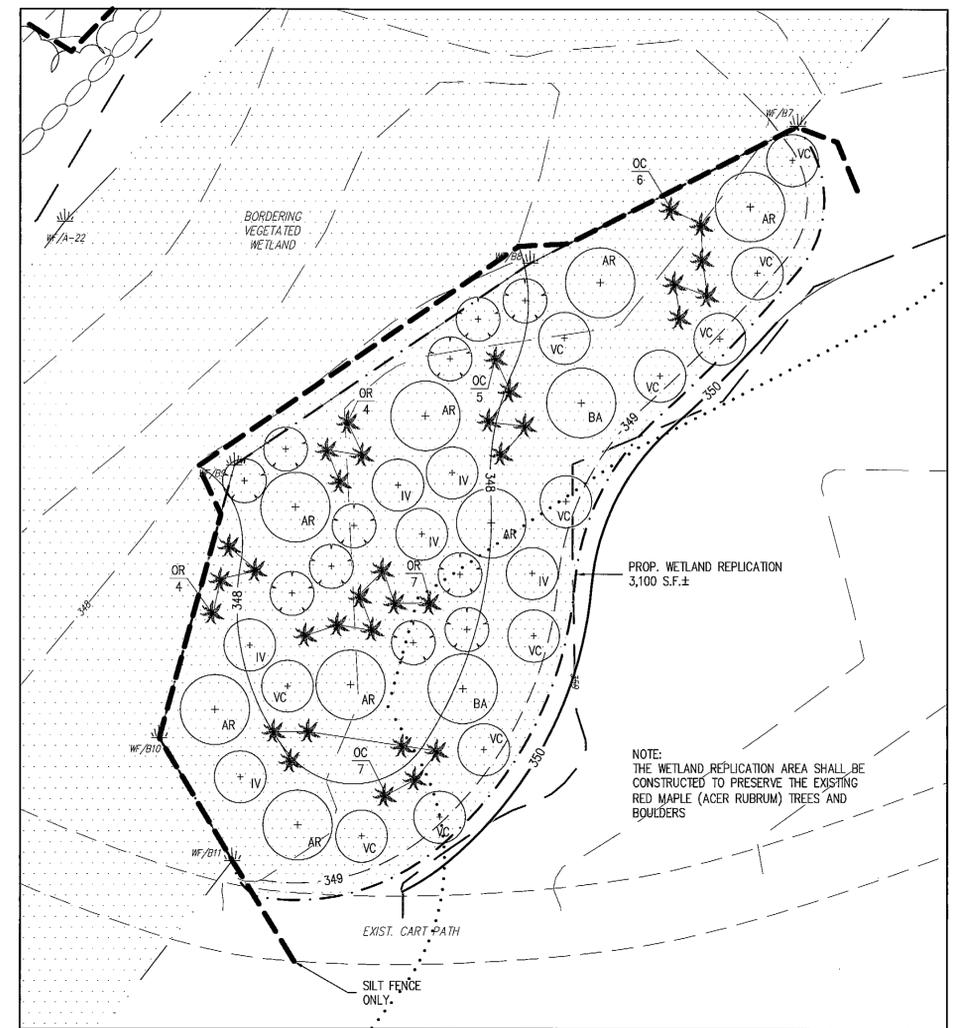
NO.	DATE	DESCRIPTION	BY
1	3/10/15	REVISIONS PER HEI COMMENTS DATED 2/3/15	WJM
2	4/7/15	REVISIONS PER HEI COMMENTS & DRIVE LOC.	GSR
3	4/21/15	REVISIONS PER CONSERVATION COMMISSION COMMENTS	BJD

JOB NO. 3354-A
DRAWING NO. 3354A-DRV
SHEET NO. **6** OF 8



WETLAND CROSSING DETAIL - INSET A

SCALE: 1" = 10'



WETLAND REPLICATION AREA - INSET B

SCALE: 1" = 10'

PLANTING SCHEDULE:

SYMBOL:	COMMON NAME:	BOTANICAL NAME:	SIZE:	SPACING:	QUANTITY:
AR	RED MAPLE	ACER RUBRUM	4-6' HEIGHT	AS SHOWN	8
BA	YELLOW BIRCH	BETULA ALLEGANIENSIS	3-4' HEIGHT	AS SHOWN	2
VR	NORTHERN ARROWWOOD	VIBURNUM RECOGNITUM	3-4' HEIGHT	AS SHOWN	11
VC	HIGHBUSH BLUEBERRY	VACCINIUM CORYMBOSUM	3-4' HEIGHT	AS SHOWN	11
IV	COMMON WINTERBERRY	ILEX VERTICILLATA	3-4'	AS SHOWN	6
OC	CINNAMON FERN	OSMUNDA CINNAMOMEA	#1 POT	AS SHOWN	18
OR	ROYAL FERN	OSMUNDA REGALIS	#1 POT	AS SHOWN	15

NOTE: THE ENTIRE REPLICATION AREA WILL BE SEEDED WITH "NEW ENGLAND WET MIX" (WETLAND SEED MIX) AT AN APPLICATION RATE OF 1 LB/2500 S.F. SEEDING: THE MIX MAY BE APPLIED BY MECHANICAL SPREADER, OR BY HAND. WHEN APPLYING ON BARE SOIL, RAKE THE SOIL TO CREATE GROOVES, APPLY SEED, THEN LIGHTLY RAKE OVER. IN NEW ENGLAND, THE BEST RESULTS ARE OBTAINED WITH AN EARLY SPRING SEEDING. SUMMER SEEDING CAN BE SUCCESSFUL WITH A LIGHT MULCHING OF WEED-FREE STRAW TO CONSERVE MOISTURE. LATE FALL AND WINTER DORMANT SEEDING REQUIRE A SLIGHT INCREASE IN THE SEEDING RATE. FERTILIZATION IS NOT REQUIRED UNLESS THE SOIL IS PARTICULARLY INFERTILE.

NOTES:

A. SPECIFICATIONS

- REPLICATION AREAS SHALL BE STAKED PRIOR TO CONSTRUCTION. NOTIFY THE BOLTON CONSERVATION COMMISSION FOR INSPECTION AFTER STAKING AND PRIOR TO CONSTRUCTION.
- ALL CONSTRUCTION AND EXCAVATED MATERIAL SHALL BE STORED OUTSIDE OF THE RESOURCE AREA.
- PRIOR TO CONSTRUCTION CONTRACTOR SHALL PLACE SIGN CONTAINING DEP FILE NUMBER WHERE IT CAN BE SEEN FROM THE STREET.
- CONTRACTOR SHALL PLACE EROSION AND SEDIMENTATION CONTROL BARRIER AS SHOWN HEREON PRIOR TO CONSTRUCTION. NOTIFY BOLTON CONSERVATION COMMISSION FOR INSPECTION AFTER INSTALLATION AND PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY WETLAND SPECIALIST AFTER STAKING AND PLACEMENT OF EROSION CONTROL BARRIERS. WETLAND SPECIALIST TO ESTABLISH PHOTOMETRIC REFERENCE POINTS AT THIS TIME.
- CONTRACTOR TO EXCAVATE ALL REPLICATION AREAS PRIOR TO EXCAVATING WITHIN THE EXISTING WETLAND FILL AREAS. EXCAVATE ALL REPLICATION AREA TO 12" BELOW FINAL FINISHED GRADES AS SHOWN HEREON. DE-WATER EXCAVATIONS AS REQUIRED.
- WETLAND SOIL SHALL BE TRANSLOCATED WHEN POSSIBLE. SOILS TO BE USED AT THE REPLICATION SITE SHOULD BE USED IMMEDIATELY IF POSSIBLE OR STOCKPILED FOR AS LITTLE TIME AS POSSIBLE. WHILE STOCKPILED, THE SOILS SHOULD BE KEPT WET AND NOT BE ALLOWED TO DRY OUT. THE METHOD FOR MAINTAINING THE APPROPRIATE MOISTURE LEVEL SHOULD BE DOCUMENTED BY CONTRACTOR AND SUBMITTED TO THE PROJECT ENGINEER. CONTAMINATION OF THESE SOILS SHOULD BE PREVENTED. TRUCKS THAT HAVE PREVIOUSLY BEEN ON OTHER SITES SHOULD BE WASHED PRIOR TO INTRODUCTION TO THE REPLICATION SITE SO THAT MUD/DIRT WITH EXOTIC/INVASIVE SEEDS IS NOT INADVERTENTLY BROUGHT TO THE REPLICATION SITE.
- PLACE TRANSLOCATED SOIL TO 12" DEPTH IN NEW REPLICATIONS AREAS TO FINAL FINISHED GRADES AS SHOWN HEREON.
- CONTRACTOR TO PROVIDE ADDITIONAL WETLAND SOIL AS REQUIRED TO ACHIEVE THE 12" MINIMUM DEPTH IN THE REPLICATION AREAS. SUPPLEMENTAL SOIL SHALL CONSIST OF EQUAL VOLUMES OF A GOOD QUALITY LOAM AND WELLS COMPOSTED ORGANIC MATERIAL. THE LOAM AND COMPOST SHOULD BE FREE OF LARGE STONES AND DEBRIS. CONTRACTOR TO FURNISH CONSERVATION COMMISSION WITH THE SOURCE OF OFF SITE SOIL ADDITIVES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE WETLAND SPECIALIST TO INSPECT THE WETLAND AREAS FOR THE PRESENCE OF INVASIVE SPECIES. INVASIVE SPECIES SHALL BE REMOVED PRIOR TO CONSTRUCTION.
- CONTRACTOR TO PLACE TRANSLOCATED SOIL WITH SIMILAR DENSITY AS OBSERVED WITHIN THE EXISTING WETLAND AREA.
- ALL PLANTING SHOULD OCCUR AT THE BEGINNING OR END OF THE GROWING SEASON UNLESS A WATERING PLAN IS

SUBMITTED AND APPROVED BY THE COMMISSION. FALL PLANTINGS SHOULD BE DONE BEFORE THE FIRST FROST. SHRUBS SHALL BE PLANTED IN ACCORDANCE WITH PLANTINGS SHOWN ON PLAN. REFER TO PLANTING DETAIL FOR TREES AND SHRUBS. SEED MIXTURES SHALL BE SOWN IN ACCORDANCE WITH NURSERY SPECIFICATIONS. EXISTING TREES SHALL BE EXCAVATED AROUND IN A MANNER TO MINIMIZE ROOT DAMAGE WHERE APPLICABLE. STABILIZED CANOPY FROM EXISTING TREES WILL FURTHER ENHANCE THE SUCCESS OF NEW PLANTINGS. NEW ENGLAND WET MIX SHALL BE SPREAD THROUGHOUT THE REPLICATION AREAS IN ACCORDANCE WITH NURSERY SPECIFICATIONS. UPON COMPLETION OF PLANTINGS REPLICATION AREAS SHALL BE COVERED WITH CLEAN STRAW HAY AND WATERED.

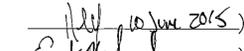
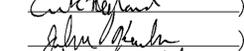
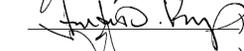
C. OVERSIGHT/MONITORING

- THE PROJECT SUPERVISOR OR MONITOR SHOULD BE PRESENT DURING THE MOST IMPORTANT TASKS IN REPLICATION CONSTRUCTION AS DESCRIBED BELOW.
- INSPECT SITE FLAGGING BEFORE EXCAVATION OR EROSION CONTROL INSTALLATION BEGINS.
 - DURING EXCAVATION OF THE ALTERED AREA IF VEGETATION IS TO BE TRANSLOCATED TO THE REPLICATION AREA TO ENSURE SURVIVAL OF THE PLANTINGS.
 - BEFORE SOIL TRANSLOCATION OR ADDITION INTO THE REPLICATION AREA TO INSPECT EXCAVATED ELEVATIONS AND LIKELY POST-CONSTRUCTION GROUND WATER ELEVATIONS FOR THE REPLICATION AREA.
 - AFTER EACH STAGE OF GRADING WORK IS COMPLETED TO INSPECT FINISHED ELEVATIONS.
 - DURING PLANTING AND SEEDING AND AFTER THE FIRST MONTH OF THE GROWING SEASON TO INSPECT PROPAGATION TECHNIQUES.
 - AFTER ONE GROWING SEASON TO OBSERVE VEGETATION DEVELOPMENT AND REGULATORY COMPLIANCE.
 - AFTER TWO GROWING SEASONS TO DETERMINE VEGETATION DEVELOPMENT AND REGULATORY COMPLIANCE.
 - AFTER SUBSEQUENT GROWING SEASONS, IF A GREATER THAN 2-YEAR MONITORING PROGRAM IS REQUIRED.
 - MONITORING SHALL BE PERFORMED IN ACCORDANCE WITH THE BOLTON WETLAND REGULATIONS.
 - PLANTS SHALL BE REPLACED AS NECESSARY TO ENSURE A 75% SURVIVAL RATE.
 - EROSION CONTROLS SHALL BE REMOVED PRIOR TO ISSUANCE OF A CERTIFICATE OF COMPLIANCE.

D. EROSION CONTROL SPECIFICATIONS

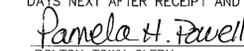
- WORK SHALL BE PERFORMED DURING A DRY PERIOD.
- PLACE EROSION CONTROL BARRIER (SILT FENCE ONLY AROUND REPLICATION AREAS) PRIOR TO CONSTRUCTION. NOTIFY THE BOLTON CONSERVATION COMMISSION AFTER INSTALLATION FOR INSPECTION.

SPECIAL PERMIT APPROVAL IN ACCORDANCE WITH THE TOWN OF BOLTON ZONING BYLAW § 250.17.B - COMMON DRIVEWAYS




 BEING A MAJORITY OF THE BOLTON PLANNING BOARD

DATE ENDORSED: _____

SPECIAL PERMIT ISSUED BY BOLTON PLANNING BOARD FILED WITH THE TOWN CLERK ON 7/12/15

I,  CLERK OF THE TOWN OF BOLTON HEREBY CERTIFY THAT THE NOTICE OF THE APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED BY THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE TWENTY (20) DAYS NEXT AFTER RECEIPT AND RECORDING OF SAID NOTICE.
 July 8, 2015
 BOLTON TOWN CLERK DATE

RESERVED FOR REGISTRY USE

PLAN BOOK 914 PLAN 21
SHEET 7 of 8

PREPARED BY:



CIVIL ENGINEERS • LAND SURVEYORS • WETLAND CONSULTANTS

1092 MAIN STREET, P.O. BOX 428 BOLTON, MASSACHUSETTS 01740

PHONE: (978) 779-6091 FAX: (978) 779-0260 www.DucharmeandDillis.com

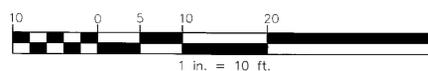
OWNER:

DUANE HENRY
147 LONG HILL ROAD
BOLTON, MASSACHUSETTS

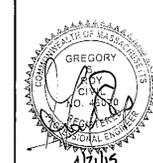
APPLICANT:

APPLEWOOD CONSTRUCTION
92 MIDDLESEX ROAD
TYNGSBORO, MASSACHUSETTS

SCALE:



COPYRIGHT DUCHARME & DILLIS CIVIL DESIGN GROUP, INC 2015



DATE: 12/24/14

DESIGN BY: GSR

DRAWN BY: GSR

CHECKED BY: GSR

WETLAND CROSSING & REPLICATION PLAN
147 LONG HILL ROAD - COMMON DRIVE
BOLTON, MASSACHUSETTS

NO.	DATE	DESCRIPTION	BY
1	3/10/15	REVISIONS PER HEI COMMENTS DATED 2/3/15	WJM
2	4/7/15	REVISIONS PER HEI COMMENTS & DRIVE LOC.	GSR
3	4/21/15	REVISIONS PER CONSERVATION COMMISSION COMMENTS	BJD

JOB NO. 3354-A

DRAWING NO. 3354A-DRV

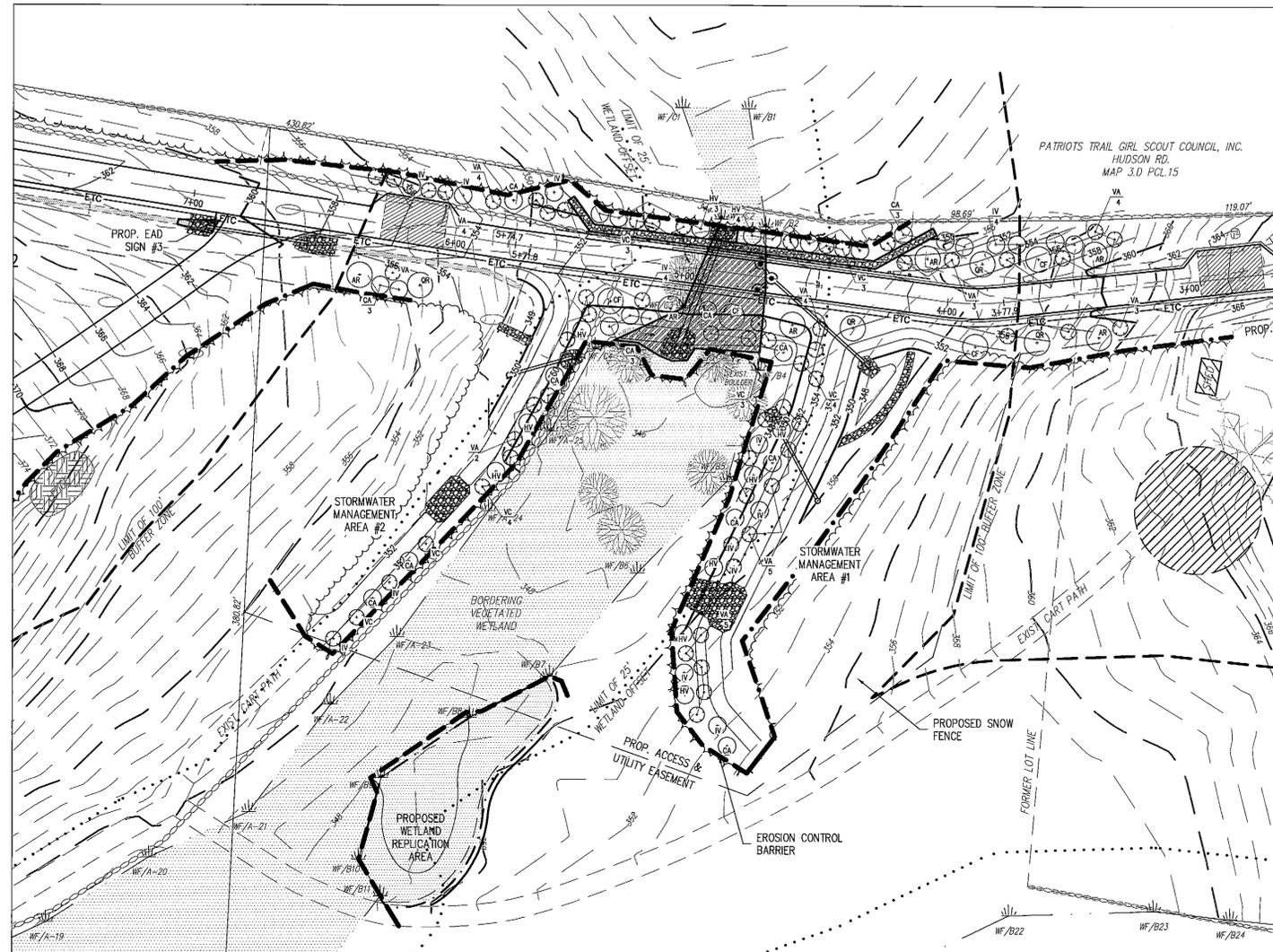
SHEET NO. 7 OF 8

MITIGATION PLANTING SCHEDULE:

SYMBOL:	COMMON NAME:	BOTANICAL NAME:	SIZE:	SPACING:	QUANTITY:
QR	NORTHERN RED OAK	QUERCUS RUBRA	2" CAL.	AS SHOWN	4
AR	RED MAPLE	ACER RUBRUM	2" CAL.	AS SHOWN	6
CF	FLOWERING DOGWOOD	CORNUS FLORIDA	10' HEIGHT	AS SHOWN	4
VC	HIGHBUSH BLUEBERRY	VACCINIUM CORYBOSUM	3-4' HEIGHT	AS SHOWN	19
VA	LOWBUSH BLUEBERRY	VACCINIUM ANGUSTIFOLIA	2-3' HEIGHT	AS SHOWN	35
CA	SWEET PEPPERBUSH	CLETHRA ALNIFOLIA	3-4' HEIGHT	AS SHOWN	17
IV	WINTERBERRY HOLLY	ILEX VERTICILLATA	3-4' HEIGHT	AS SHOWN	19
HV	WITCH HAZEL	HAMAMELIS VIRGINIANA	3-4' HEIGHT	AS SHOWN	15

NOTE: THE ENTIRE MITIGATION AREA WILL BE SEEDED WITH "NEW ENGLAND ROADSIDE MATRIX UPLAND SEED MIX" AT AN APPLICATION RATE OF 1 LB/1250 S.F. SEEDING:

AREA WILL BE SEEDED WITH "NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS" AT AN APPLICATION RATE OF 1 LB/1250 S.F.



AREA CALCULATIONS:

EXISTING	
AREA OF BORDERING VEGETATED WETLAND (BVW):	1,077,585 S.F.±
AREA WITHIN 25' WETLAND OFFSET:	118,750 S.F.±
AREA WITHIN THE OUTER 75' ADJACENT UPLAND RESOURCE AREA:	308,100 S.F.±
TOTAL WETLAND RESOURCE AREA ON SITE:	1,504,435 S.F.±
PROPOSED	
PROPOSED DISTURBANCE IN BORDERING VEGETATED WETLAND	1,540 S.F.±
PROPOSED DISTURBANCE IN 25' WETLAND OFFSET:	7,050 S.F.±
PROPOSED DISTURBANCE IN OUTER 75' OF AURA:	11,415 S.F.±
PROPOSED WETLAND REPLICATION:	3,100 S.F.±
PROPOSED REPLICATION RATIO	2:1
TOTAL DISTURBANCE IN WETLAND RESOURCE AREA ON SITE:	20,005 S.F.±
PERCENT DISTURBANCE WITHIN THE WETLAND RESOURCE AREAS:	1.3%

RESERVED FOR REGISTRY USE

PLAN BOOK 914 PLAN E1
SHEET 8 OF 8

SPECIAL PERMIT APPROVAL IN ACCORDANCE WITH THE TOWN OF BOLTON ZONING BYLAW § 250.17.B - COMMON DRIVEWAYS

[Signature] 10 Jan 2015
[Signature]
[Signature]
[Signature]

BEING A MAJORITY OF THE BOLTON PLANNING BOARD

DATE ENDORSED: _____

SPECIAL PERMIT ISSUED BY BOLTON PLANNING BOARD FILED WITH THE TOWN CLERK ON April 21, 2015

I, *Pamela H. Powell*, CLERK OF THE TOWN OF BOLTON HEREBY CERTIFY THAT THE NOTICE OF THE APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED BY THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE TWENTY (20) DAYS NEXT AFTER RECEIPT AND RECORDING OF SAID NOTICE.

Pamela H. Powell July 8, 2015
BOLTON TOWN CLERK DATE

PREPARED BY:
DUCHARME & DILLIS
Civil Design Group, Inc.
CIVIL ENGINEERS • LAND SURVEYORS • WETLAND CONSULTANTS
1092 MAIN STREET, P.O. BOX 428 BOLTON, MASSACHUSETTS 01740
PHONE: (978) 779-6091 FAX: (978) 779-0260
www.DucharmeandDillis.com

OWNER:
DUANE HENRY
147 LONG HILL ROAD
BOLTON, MASSACHUSETTS

APPLICANT:
APPLEWOOD CONSTRUCTION
92 MIDDLESEX ROAD
TYNGSBORO, MASSACHUSETTS

SCALE:
30 0 15 30 60 120
1 in. = 30 ft.

COPYRIGHT DUCHARME & DILLIS CIVIL DESIGN GROUP, INC 2015

DATE: 12/24/14

DESIGN BY: GSR

DRAWN BY: GSR

CHECKED BY: GSR

MITIGATION PLAN
147 LONG HILL ROAD - COMMON DRIVE
BOLTON, MASSACHUSETTS

NO.	DATE	DESCRIPTION	BY
1	3/10/15	REVISIONS PER HEI COMMENTS DATED 2/3/15	WJM
2	4/7/15	REVISIONS PER HEI COMMENTS & DRIVE LOC.	GSR
3	4/21/15	REVISIONS PER CONSERVATION COMMISSION COMMENTS	BD

JOB NO. 3354-A
DRAWING NO. 3354A-DRV
SHEET NO. **8** OF 8