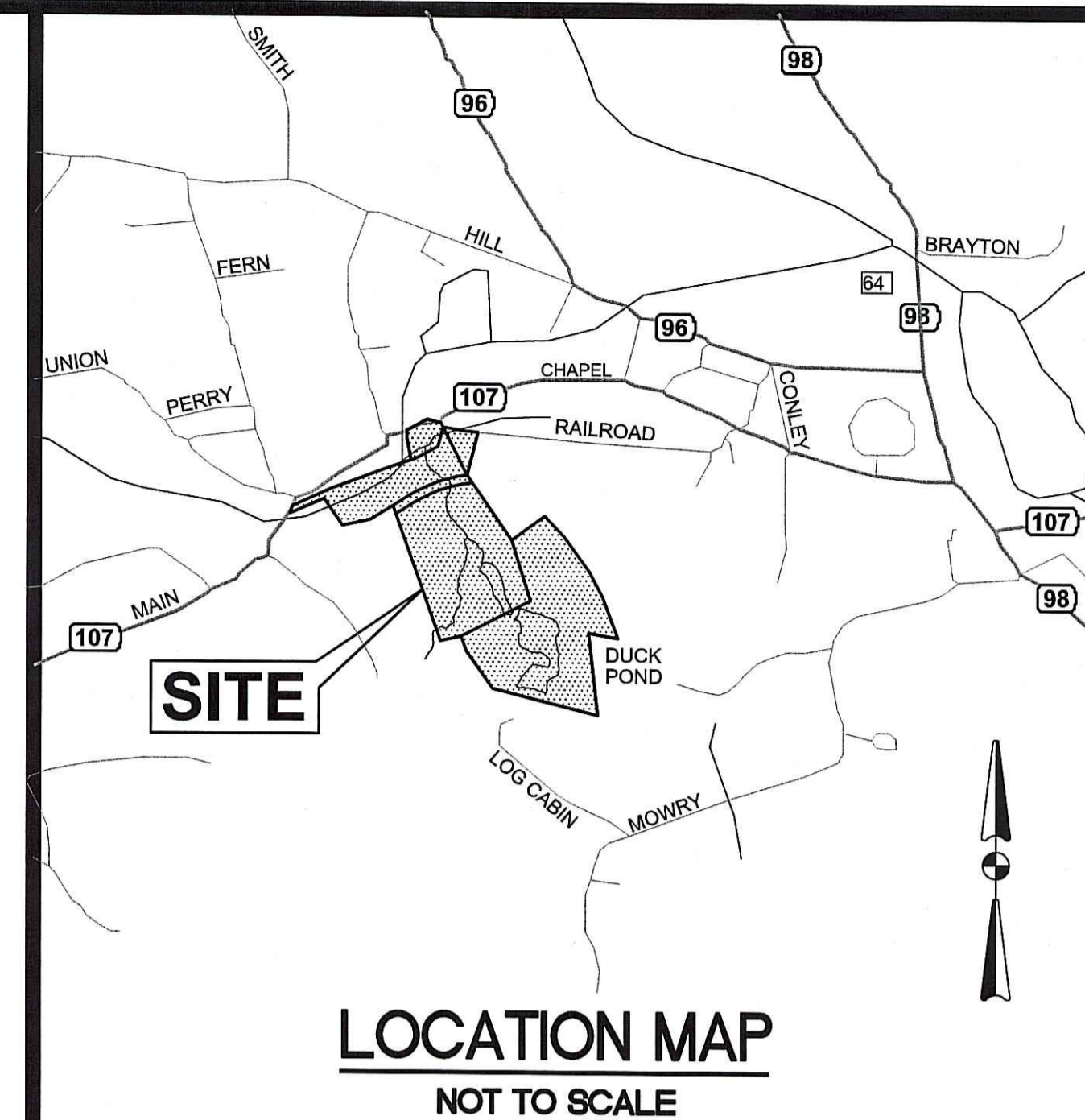


SITE STABILIZATION PLANS FOR GRAVEL REMOVAL OPERATIONS ASSESSOR'S PLAT 159, LOTS 1,2, & 5 ASSESSOR'S PLAT 142, LOT 26 & 124

AND PORTION OF
ASSESSOR'S PLAT 158, LOT 78
RAILROAD AVENUE
HARRISVILLE, RHODE ISLAND

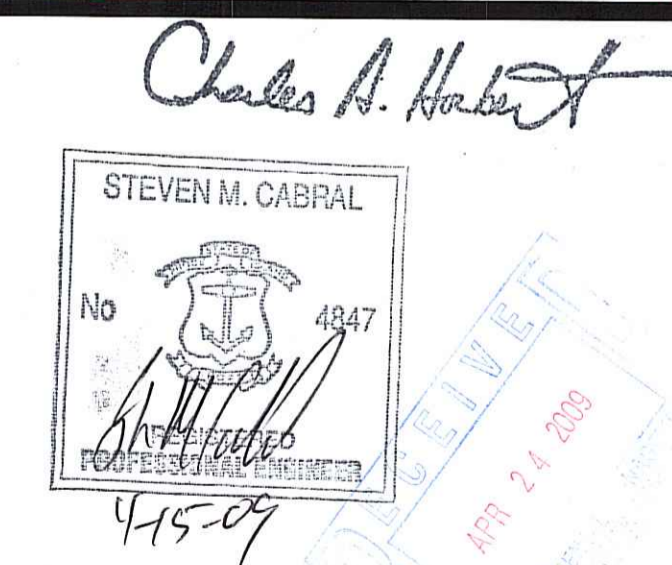
ZONING DISTRICT: (F-2) - FARMING/RESIDENTIAL



INDEX OF DRAWINGS

DRAWING No.	PLAN
C1	GENERAL NOTES and LEGEND
C2	AERIAL and SOILS MAP
C3	BOUNDARY PLAN
C4	EXISTING CONDITIONS PLAN
C5.1	SOIL and EROSION CONTROL PLAN No. 1
C5.2	SOIL and EROSION CONTROL PLAN No. 2
C6	OVERALL SITE PLAN
C7.1	SITE GRADING PLAN No. 1
C7.2	SITE GRADING PLAN No. 2
C8	MISCELLANEOUS DETAILS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 21 2009 FILE # 08-0198
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



OWNER/APPLICANT:

A.P. 159, LOTS 1, 2 & 5
A.P. 142, LOT 26 and A.P. 158, LOT 78
BRUCE & DAVID BARNES
873 PROVIDENCE PIKE
PUTNAM CT, 06260

AND

A.P. 142, LOT 124
TOWN OF BURRILLVILLE
105 HARRISVILLE MAIN ST.
HARRISVILLE, RI 02830

ENGINEERS & SURVEYORS:



- Civil
- Transportation
- Environmental
- Site Planning
- Land Surveying

CROSSMAN ENGINEERING, INC.

151 Centerville Road
Warwick, Rhode Island 02886
Phone: (401) 738-5660 - Fax: (401) 738-8157
Email: cei@crossmaneng.com

RIDEM WETLANDS SUBMISSION

REVISIONS:

NO.:	DATE:	DESCRIPTION:
1	04/06/09	GRADING

MAY 2008
SHEET 1 of 11

GENERAL NOTES:

- ALL EXISTING UTILITIES HAVE BEEN PLOTTED BASED UPON BEST AVAILABLE INFORMATION AND REPRESENT APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE & UTILITIES, BOTH UNDERGROUND AND OVERHEAD, BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH "DIG SAFE PROGRAM LAW" ENACTED BY THE R.I. LEGISLATURE AND BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY CITY, STATE OR FEDERAL AGENCY THAT MAY APPLY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- SPECIFICATIONS TO GOVERN THIS PROJECT ARE R.I.D.O.T. STANDARD SPECIFICATIONS AND LATEST COMPILATION OF APPROVED SPECIFICATIONS. FOR ALL EXCAVATION, PLACEMENT OF FILL, PIPE INSTALLATION, BITUMINOUS PAVEMENT, CUTTING INTO CATCHBASIN/MANHOLES, CONCRETE AND SAWCUTTING, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, WITH LATEST REVISIONS UNLESS OTHERWISE SHOWN ON PLANS. THE "METHOD OF MEASUREMENT" AND "BASIS OF PAYMENT" ARE NOT APPLICABLE. THESE SPECIFICATIONS CAN BE PURCHASED FROM THE OFFICE OF:

CONTRACTS AND SPECIFICATIONS
RIDOT, TWO CAPITOL HILL, ROOM 331
PROVIDENCE, RI 02903
TEL. (401)277-2495, EXT. 4400
HTTP://WWW.DOT.STATE.RI.US/ENGINEERING/PAGES/STANDSPEC.HTM
- FOR ALL EXCAVATION AND PLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.
- RHODE ISLAND STANDARDS REFERENCED ARE ACCORDING TO THE STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS "RHODE ISLAND STANDARD DETAILS" REVISED 11/10/2006, AND ALL AMENDMENTS, PREPARED BY THE DEPARTMENT OF TRANSPORTATION.
- THE CONTRACTOR MUST VERIFY PRIOR TO CONSTRUCTION THAT ALL REQUIRED AUTHORIZATION TO PERFORM WORK HAS BEEN OBTAINED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION OPERATIONS INCLUDING ALL ACTIONS OR OMISSIONS OF ANY SUBCONTRACTORS, AGENTS OR EMPLOYEES. THE CONTRACTOR MUST ENSURE THAT THE CONDITIONS OF ALL PERMITS, SPECIFICATIONS AND FEDERAL, STATE AND LOCAL REGULATIONS ARE STRICTLY ENFORCED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ASPECTS OF ON-SITE SAFETY INCLUDING ANY DAMAGE TO EXISTING STRUCTURES.
- WORK SHOWN ON THE PLANS FOR WHICH THERE ARE NO PARTICULAR DETAILS OR SPECIFICATIONS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THE WORK. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE CONTRACT DOCUMENTS AND PLANS AND INSPECT THE SITE, AND THE BID PRICE SHALL INCLUDE ALL SERVICES AND MATERIALS NECESSARY TO COMPLETE THE PROJECT. ANY CHANGES TO THE PROJECT OR THE INSTALLATION OF AN ITEM FOR WHICH NO PARTICULAR DETAIL OR SPECIFICATION WAS PROVIDED MUST BE REVIEWED BY AND MUST BE ACCEPTABLE TO THE ENGINEER.
- ALL DISTURBED AREAS SHALL BE REPLACED IN KIND UNLESS OTHERWISE SHOWN.

EXCAVATION NOTES:

- ALL WORK INCLUDING GRAVEL REMOVAL AND REGRADING SHALL BE CONDUCTED WITHIN THE LIMITS OF WORK AS SHOWN ON THESE PLANS.
- FINAL GRADING AND SLOPES SHALL BE A MAXIMUM OF 3:1.
- EXCAVATION SHALL NOT BE CONDUCTED WITHIN THE WATERTABLE. THE ESTIMATED SEASONAL HIGH GROUNDWATER ELEVATIONS ARE IDENTIFIED ON THE TEST PIT DATA.
- UNDER THE DIRECTION OF THE OWNER, FINAL GRADES WITHIN THE LIMITS OF WORK MAY VARY. MODIFICATIONS SHALL NOT ALTER THE SITE DRAINAGE PATTERNS OR INCREASE SLOPES GREATER THAN 3:1.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION AS NECESSARY. IF REQUIRED, ALL TEMPORARY CONSTRUCTION SIGNS, CHANNELING DEVICES, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.)
- TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.
- THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS WILL NOT BE PARKED IN THE STATE RIGHT-OF-WAY.
- SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

LOAM NOTE:

LOAM (TOPSOIL) PROPOSED ON THE SITE MAY BE A MIX OF STOCKPILED LOAM WITH OTHER ON-SITE SOILS. FINAL LOAM PLACED SHALL BE SUITABLE FOR VEGETATIVE GROWTH. REFER TO SHEET 11.

PERMIT MODIFICATION AREAS ARE HIGHLIGHTED ON SHEETS 9 AND 10

PLAN NOTE:

THE PURPOSE OF THIS PLAN SET IS TO IDENTIFY LIMITS OF GRAVEL REMOVAL AND PROVIDE SITE STABILIZATION PROCEDURE'S AFTER REMOVAL. GRAVEL REMOVAL WILL BE CONDUCTED FROM JULY 2008 TO SEPTEMBER 2009. SITE STABILIZATION INCLUDING BUT NOT LIMITED TO LOAM, SEED AND LANDSCAPE PLANTING WILL BE COMPLETED NO LATER THAN 3 MONTHS AFTER GRAVEL REMOVAL.

SEQUENCE OF CONSTRUCTION:

- OWNER WILL CONSULT WITH ENGINEER/SURVEYOR TO IDENTIFY LIMIT OF WORK AREAS.
- THE CONSTRUCTION ENTRANCE AND ALL SILT FENCE SHALL BE INSTALLED PRIOR TO TREE CUTTING OR EARTHWORK
- CONSTRUCTION SHALL BE CONDUCTED IN STAGES AS REFERENCED ON THE PLANS.
- COMMENCE TREE CUTTING AND GRUBBING OPERATIONS.
- REMOVE AND STOCKPILE TOPSOIL IN LOCATIONS ON PLANS.
- COMMENCE GRAVEL REMOVAL.
- REPLACE TOPSOIL AND BRING IN NEW TOPSOIL AS REQUIRED TO PROVIDE A 4" DEPTH.
- RESTORE AREAS SHOWN WITH PLANTINGS.

PROJECT COMPLETION:

THE CONTRACTOR SHALL NOTIFY RIDEM WHEN SITE SEEDING AND STABILIZATION ARE COMPLETE. RIDEM INSPECTIONS WILL BE REQUIRED.

WETLAND NOTE:

1. WETLANDS SHOWN WITHIN THIS PLAN SET HAVE BEEN DELINEATED BY NATURAL RESOURCE SERVICES INC. IN SEPTEMBER, 2007 AND MARCH 2008. WETLAND FLAGS WERE FIELD LOCATED BY CROSSMAN ENGINEERING INC. IN NOVEMBER/DECEMBER 2007 AND JANUARY 2008. FIELD LOCATIONS WERE CONDUCTED BY USING GPS (TRIMBLE PRO-XR). IN ACCORDANCE WITH RIDEM RULE 7.0A.C, THE ACCURACY CAN BE COMPUTED TO POSITIONS THAT ARE WITHIN 1 (ONE) METER HORIZONTALLY.

CONTOUR NOTE:

- CONTOURS ARE FROM AERIAL PHOTOGRAPHY AND PROVIDED BY COL-EAST, INC. P.O. BOX 347 NORTH ADAMS, MA 01247 IN FEBRUARY 2008.
- ELEVATION DATUM IS BASED ON NGVD 1929.

FLOOD ZONE NOTE:

THE SITE IS LOCATED IN FLOOD ZONE A5, FLOOD ZONE B AND FLOOD ZONE C AS SHOWN ON FLOOD INSURANCE MAP FOR THE TOWN OF BURRILLVILLE, RHODE ISLAND, PROVIDENCE COUNTY, PANEL 10 OF 15, COMMUNITY-PANEL NUMBER 440013 0010B, EFFECTIVE DATE JULY 2, 1979.

FLOOD ZONE A5: 100 YEAR FLOOD BOUNDARY
FLOOD ZONE B: 500 YEAR FLOOD BOUNDARY
FLOOD ZONE C: AREAS OF MINIMAL FLOODING

NOTE: ALL UPLAND AREAS NOT REFERENCED ON THE PLAN AS FLOOD ZONE A5 OR B ARE WITHIN FLOOD ZONE C

TEST PIT DATA:

TEST PITS CONDUCTED BY CROSSMAN ENGINEERING, INC. ON FEBRUARY 21, 2008.

TEST PIT 1	TEST PIT 2	TEST PIT 3	TEST PIT 4
0" VERY DARK BROWN ORGANIC SOIL (HEMIC)	0" VERY DARK BROWN ORGANIC SOIL (HEMIC)	0" VERY DARK BROWN ORGANIC SOIL (HEMIC)	0" VERY DARK BROWN ORGANIC SOIL (HEMIC)
2" DARK BROWN SANDY LOAM	4" DARK YELLOWISH BROWN SANDY LOAM	2" DARK YELLOWISH BROWN SANDY LOAM	1" DARK YELLOWISH BROWN SANDY LOAM
9" DARK YELLOWISH BROWN SANDY LOAM (GRAVELLY)	8" DARK YELLOWISH BROWN SANDY LOAM	4" DARK YELLOWISH BROWN SANDY LOAM	3" DARK YELLOWISH BROWN SANDY LOAM
27" YELLOWISH BROWN GRAVELLY LOAMY SAND	20" YELLOWISH BROWN SANDY LOAM/LOAMY SAND	8" YELLOWISH BROWN GRAVELLY SANDY LOAM	6" YELLOWISH BROWN GRAVELLY SANDY LOAM
40" LIGHT OLIVE BROWN GRAVELLY COARSE SAND AND COBBLES	38" LIGHT OLIVE BROWN GRAVELLY LOAMY SAND	18" LIGHT OLIVE BROWN GRAVELLY LOAMY SAND	18" LIGHT OLIVE BROWN GRAVELLY LOAMY SAND
144" NO LEDGE NO WATER SEEPAGE NO REDOX ESHWT > 144"	46" LIGHT OLIVE BROWN GRAVELLY COARSE SAND AND COBBLES	24" LIGHT OLIVE BROWN GRAVELLY COARSE SAND AND COBBLES	26" LIGHT OLIVE BROWN GRAVELLY COARSE SAND AND COBBLES
	120" LIGHT OLIVE BROWN COARSE SAND	65" LIGHT YELLOWISH BROWN FINE SAND	110" NO LEDGE NO WATER SEEPAGE NO REDOX ESHWT > 110"
	144" NO LEDGE NO WATER SEEPAGE NO REDOX ESHWT > 144"	120" NO LEDGE NO WATER SEEPAGE NO REDOX ESHWT > 120"	

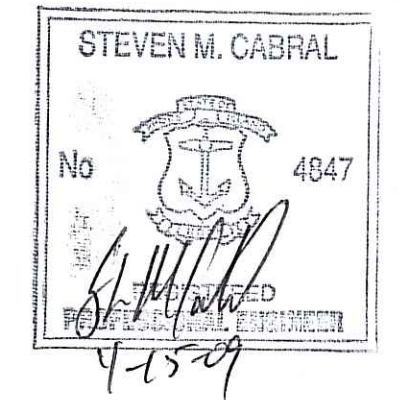
LEGEND:

- D--- DRAIN LINE
- ⊙ SEWER MANHOLE
- WG WATERGATE
- TREE
- SHRUB
- ⊙ ROCK
- ⊙ MARSH SYMBOL
- ⊙ MANHOLE
- CATCH BASIN
- UTILITY POLE
- STREET LIGHT
- *723.8 EXISTING SPOT GRADE
- *723.8 PROPOSED SPOT GRADE
- 400--- EXISTING CONTOUR
- 400--- PROPOSED CONTOUR
- EDGE OF PAVEMENT
- DIRT DRIVE
- /// BUILDING
- ~ ~ ~ ~ TREE LINE
- ~ ~ ~ ~ HEDGE ROW
- WATER/STREAM EDGE
- TOP OF BANK
- FENCE
- GUARD RAIL
- STONE WALL
- RETAINING WALL
- C18 WETLAND FLAG/EDGE
- 50' WETLAND SUFFER
- 100' RIVERBANK WETLAND SETBACK
- 200' RIVERBANK WETLAND SETBACK
- LIMIT OF DISTURBANCE/SILT FENCE
- PROPERTY LINE
- ⊙ TP-1 TEST PIT LOCATIONS
- ⊙ PROPOSED TREE (AR OR PS)
- ⊙ PROPOSED SHRUB (CA OR VA)
- GRAVEL TRAIL
- STREAM/RIVER (AS NOTED)
- AREA SUBJECT TO FLOODING (ASF)
- TOP OF BANK

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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ASSESSOR'S PLAT 159
LOTS 1,2 & 5
ASSESSOR'S PLAT 142 LOT 26 & 124
AND PORTION OF
ASSESSOR'S PLAT 158 LOT 78

ZONING DISTRICT: (F-2)
FARMING/RESIDENTIAL

PROJECT TITLE:

SITE STABILIZATION FOR GRAVEL REMOVAL OPERATION

RAILROAD AVENUE
HARRISVILLE, RHODE ISLAND

PREPARED FOR:

BRUCE & DAVID BARNES
873 PROVIDENCE PIKE
PUTNAM, CT 06260

DRAWING TITLE:

GENERAL NOTES and LEGEND

DATE: MAY, 2008 SCALE: NO SCALE

DWG. NAME: 1439-C1-REV1.dwg

REVISIONS

NUMBER	REMARKS	DATE
1	GRADING	04/06/09

DRAWING NUMBER

C1

SHEET: 2 OF 11

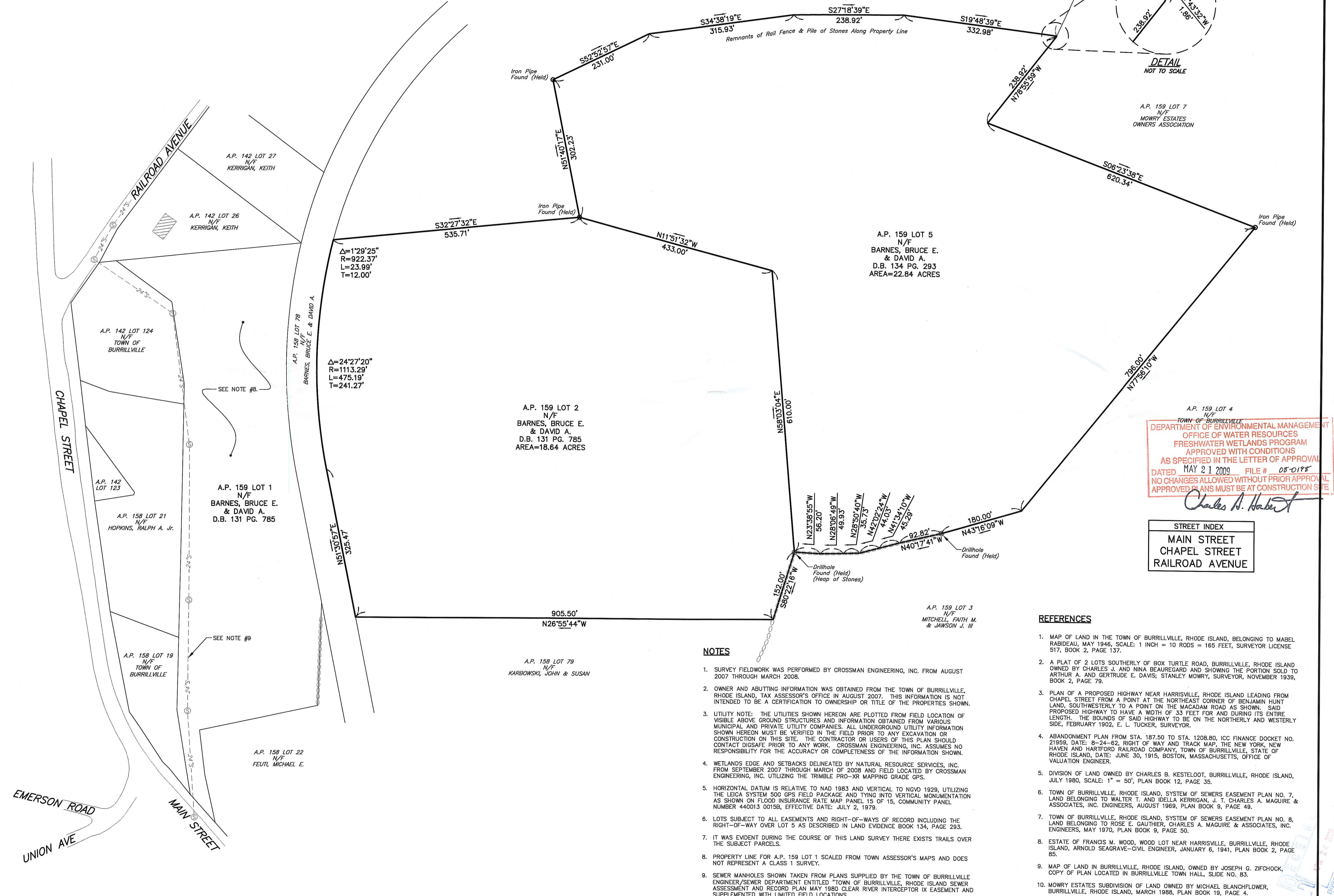
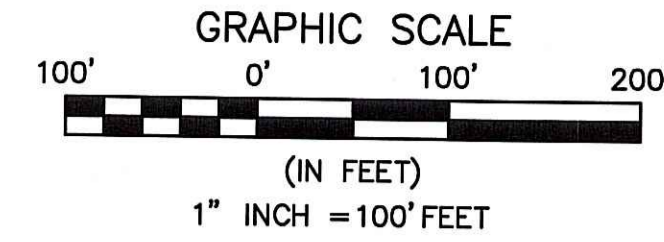
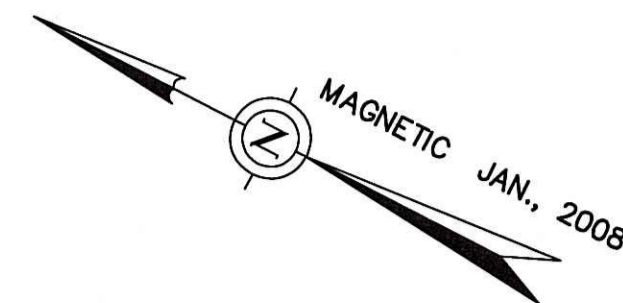
RIDEM WETLANDS SUBMISSION

RECEIVED
APR 24 2009

S:\1439-Barnes\C-Current\1439-C1-REV1.dwg, Model, 4/22/2009 7:37:17 AM, 1:1,00261

LEGEND

—	PROPERTY LINE
A.P.	ASSESSOR'S PLAT
N/F	NOW OR FORMERLY
D.B., PG.	DEED BOOK, PAGE
▨	BUILDING FACE
⊙	SEWER MANHOLE



AP. 159 LOT 4
N/F
TOWN OF BURRILLVILLE
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 21 2009 FILE # 08-0198
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED ANS MUST BE AT CONSTRUCTION SITE

Charles H. Herbert

STREET INDEX

MAIN STREET
CHAPEL STREET
RAILROAD AVENUE

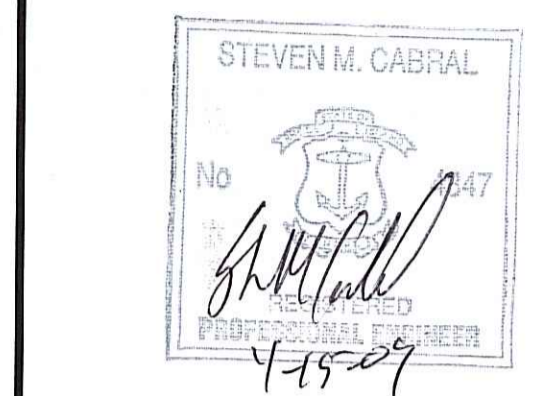
NOTES

- SURVEY FIELDWORK WAS PERFORMED BY CROSSMAN ENGINEERING, INC. FROM AUGUST 2007 THROUGH MARCH 2008.
- OWNER AND ABUTTING INFORMATION WAS OBTAINED FROM THE TOWN OF BURRILLVILLE, RHODE ISLAND, TAX ASSESSOR'S OFFICE IN AUGUST 2007. THIS INFORMATION IS NOT INTENDED TO BE A CERTIFICATION TO OWNERSHIP OR TITLE OF THE PROPERTIES SHOWN.
- UTILITY NOTE: THE UTILITIES SHOWN HEREON ARE PLOTTED FROM FIELD LOCATION OF VISIBLE ABOVE GROUND STRUCTURES AND INFORMATION OBTAINED FROM VARIOUS MUNICIPAL AND PRIVATE UTILITY COMPANIES. ALL UNDERGROUND UTILITY INFORMATION SHOWN HEREON MUST BE VERIFIED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ON THIS SITE. THE CONTRACTOR OR USERS OF THIS PLAN SHOULD CONTACT DIGSAFE PRIOR TO ANY WORK. CROSSMAN ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
- WETLANDS EDGE AND SETBACKS DELINEATED BY NATURAL RESOURCE SERVICES, INC. FROM SEPTEMBER 2007 THROUGH MARCH OF 2008 AND FIELD LOCATED BY CROSSMAN ENGINEERING, INC. UTILIZING THE TRIMBLE PRO-XR MAPPING GRADE GPS.
- HORIZONTAL DATUM IS RELATIVE TO NAD 1983 AND VERTICAL TO NGVD 1929, UTILIZING THE LEICA SYSTEM 500 GPS FIELD PACKAGE AND TYPED INTO VERTICAL MONUMENTATION AS SHOWN ON FLOOD INSURANCE RATE MAP PANEL 15 OF 15, COMMUNITY PANEL NUMBER 440013 00158, EFFECTIVE DATE: JULY 2, 1979.
- LOTS SUBJECT TO ALL EASEMENTS AND RIGHT-OF-WAYS OF RECORD INCLUDING THE RIGHT-OF-WAY OVER LOT 5 AS DESCRIBED IN LAND EVIDENCE BOOK 134, PAGE 293.
- IT WAS EVIDENT DURING THE COURSE OF THIS LAND SURVEY THERE EXISTS TRAILS OVER THE SUBJECT PARCELS.
- PROPERTY LINE FOR A.P. 159 LOT 1 SCALED FROM TOWN ASSESSOR'S MAPS AND DOES NOT REPRESENT A CLASS 1 SURVEY.
- SEWER MANHOLES SHOWN TAKEN FROM PLANS SUPPLIED BY THE TOWN OF BURRILLVILLE ENGINEERS/SEWER DEPARTMENT ENTITLED 'TOWN OF BURRILLVILLE, RHODE ISLAND SEWER ASSESSMENT AND RECORD PLAN MAY 1980 CLEAR RIVER INTERCEPTOR IX EASEMENT AND SUPPLEMENTED WITH LIMITED FIELD LOCATIONS.'

REFERENCES

- MAP OF LAND IN THE TOWN OF BURRILLVILLE, RHODE ISLAND, BELONGING TO MABEL RABIDEAU, MAY 1946, SCALE: 1 INCH = 10 RODS = 165 FEET, SURVEYOR LICENSE 517, BOOK 2, PAGE 137.
- A PLAT OF 2 LOTS SOUTHERLY OF BOX TURTLE ROAD, BURRILLVILLE, RHODE ISLAND OWNED BY CHARLES J. AND NINA BEAUREGARD AND SHOWING THE PORTION SOLD TO ARTHUR A. AND GERTRUDE E. DAVIS; STANLEY MOWRY, SURVEYOR, NOVEMBER 1939, BOOK 2, PAGE 79.
- PLAN OF A PROPOSED HIGHWAY NEAR HARRISVILLE, RHODE ISLAND LEADING FROM CHAPEL STREET FROM A POINT AT THE NORTHEAST CORNER OF BENJAMIN HUNT LAND, SOUTHWESTERLY TO A POINT ON THE MACADAM ROAD AS SHOWN. SAID PROPOSED HIGHWAY TO HAVE A WIDTH OF 33 FEET FOR AND DURING ITS ENTIRE LENGTH. THE BOUNDS OF SAID HIGHWAY TO BE ON THE NORTHERLY AND WESTERLY SIDE, FEBRUARY 1902, E. L. TUCKER, SURVEYOR.
- ABANDONMENT PLAN FROM STA. 187.50 TO STA. 1208.80, ICC FINANCE DOCKET NO. 21959, DATE: 8-24-82, RIGHT OF WAY AND TRACK MAP, THE NEW YORK, NEW HAVEN AND HARTFORD RAILROAD COMPANY, TOWN OF BURRILLVILLE, STATE OF RHODE ISLAND, DATE: JUNE 30, 1915, BOSTON, MASSACHUSETTS, OFFICE OF VALUATION ENGINEER.
- DIVISION OF LAND OWNED BY CHARLES B. KESTELOOT, BURRILLVILLE, RHODE ISLAND, JULY 1980, SCALE: 1" = 50', PLAN BOOK 12, PAGE 35.
- TOWN OF BURRILLVILLE, RHODE ISLAND, SYSTEM OF SEWERS EASEMENT PLAN NO. 7, LAND BELONGING TO WALTER T. AND IDELLA KERRIGAN, J. T. CHARLES A. MAGUIRE & ASSOCIATES, INC. ENGINEERS, AUGUST 1969, PLAN BOOK 9, PAGE 49.
- TOWN OF BURRILLVILLE, RHODE ISLAND, SYSTEM OF SEWERS EASEMENT PLAN NO. 8, LAND BELONGING TO ROSE E. GAUTHIER, CHARLES A. MAGUIRE & ASSOCIATES, INC. ENGINEERS, MAY 1970, PLAN BOOK 9, PAGE 50.
- ESTATE OF FRANCIS M. WOOD, WOOD LOT NEAR HARRISVILLE, BURRILLVILLE, RHODE ISLAND, ARNOLD SEAGRAVE-CIVIL ENGINEER, JANUARY 6, 1941, PLAN BOOK 2, PAGE 85.
- MAP OF LAND IN BURRILLVILLE, RHODE ISLAND, OWNED BY JOSEPH G. ZIFCHOCK, COPY OF PLAN LOCATED IN BURRILLVILLE TOWN HALL, SLIDE NO. 83.
- MOWRY ESTATES SUBDIVISION OF LAND OWNED BY MICHAEL BLANCHFLOWER, BURRILLVILLE, RHODE ISLAND, MARCH 1988, PLAN BOOK 19, PAGE 4.

CROSSMAN ENGINEERING, INC.
151 Centerville Road
Warwick, Rhode Island 02886
Phone: (401) 738-5860 - Fax: (401) 738-8157
Email: cel@crossmaneng.com



ASSESSOR'S PLAT 159
LOTS 1, 2 & 5
ASSESSOR'S PLAT 142 LOT 26
& 124
AND PORTION OF
ASSESSOR'S PLAT 158 LOT 78

ZONING DISTRICT: (F-2)
FARMING/RESIDENTIAL

PROJECT TITLE:

**SITE STABILIZATION FOR
GRAVEL REMOVAL
OPERATION**

RAILROAD AVENUE
HARRISVILLE, RHODE ISLAND

PREPARED FOR:

BRUCE & DAVID BARNES
873 PROVIDENCE PIKE
PUTNAM, CT 06260

DRAWING TITLE:

BOUNDARY PLAN

DATE: MAY, 2008 SCALE: 1"=100'

DWG. NAME: 1439-C3-REV1.dwg

REVISIONS

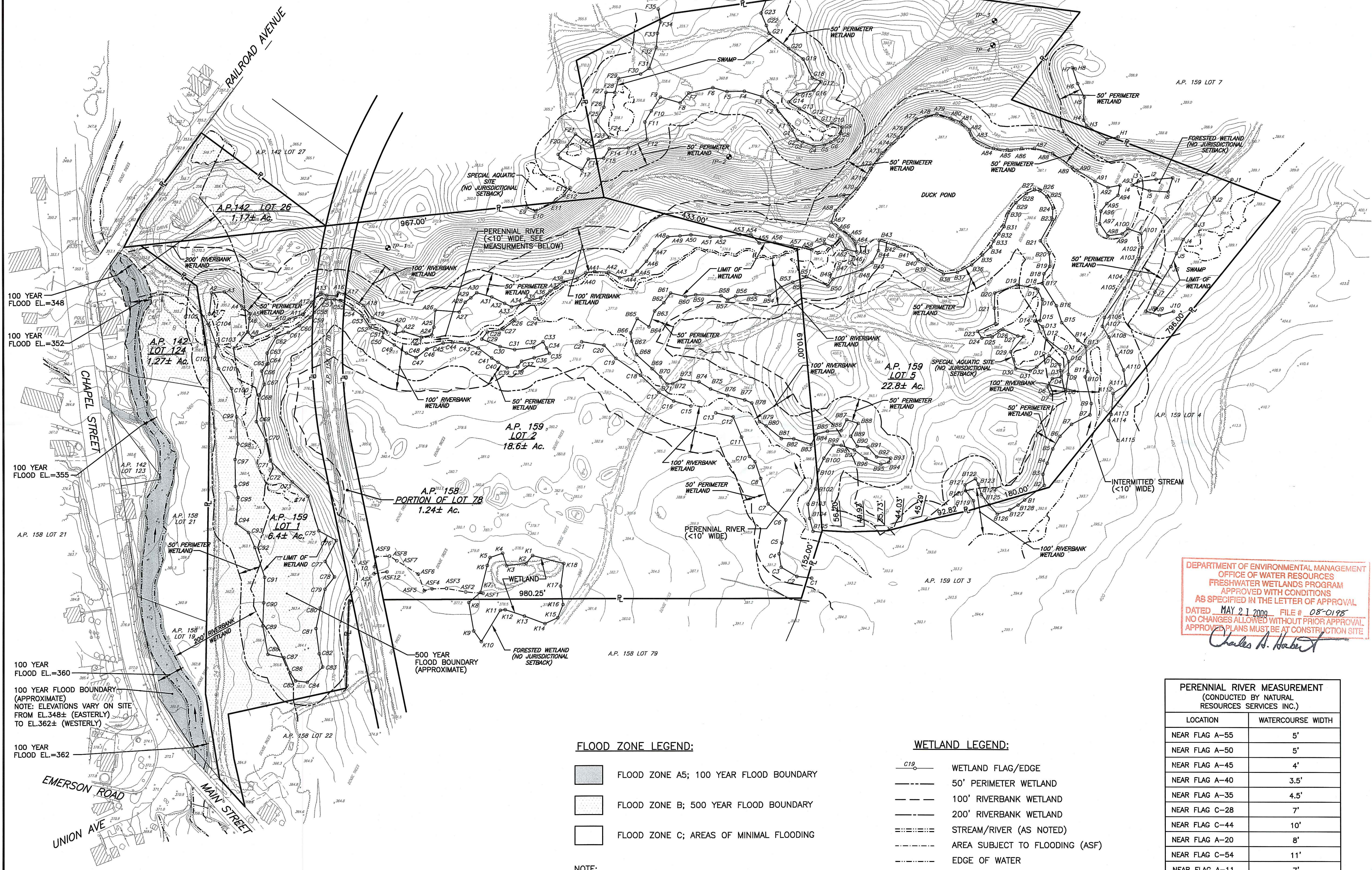
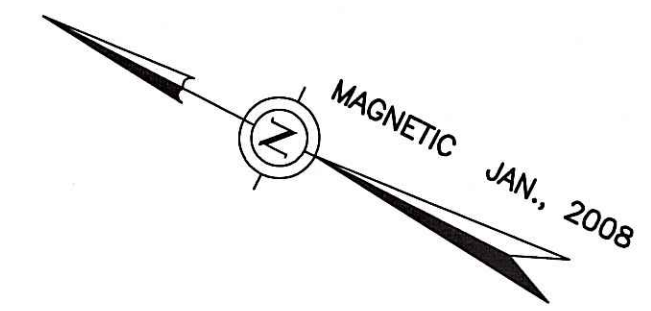
NUMBER	REMARKS	DATE
1	GRADING	04/06/09

DRAWING NUMBER

C3

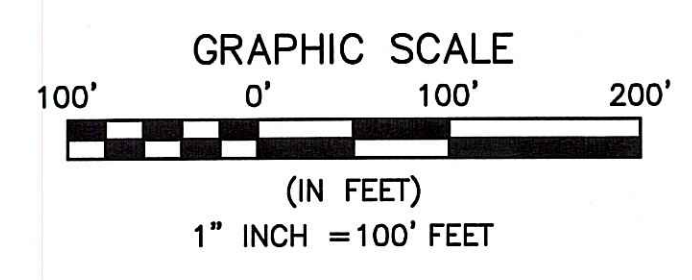
SHEET: 4 OF 11

RIDEM WETLANDS SUBMISSION



100 YEAR FLOOD EL.=348
 100 YEAR FLOOD EL.=352
 100 YEAR FLOOD EL.=355
 100 YEAR FLOOD EL.=360
 100 YEAR FLOOD EL.=362

100 YEAR FLOOD BOUNDARY (APPROXIMATE)
 NOTE: ELEVATIONS VARY ON SITE FROM EL.348± (EASTERLY) TO EL.362± (WESTERLY)



FLOOD ZONE LEGEND:

- FLOOD ZONE A5; 100 YEAR FLOOD BOUNDARY
- FLOOD ZONE B; 500 YEAR FLOOD BOUNDARY
- FLOOD ZONE C; AREAS OF MINIMAL FLOODING

NOTE:
 FLOOD ZONE LOCATIONS REFERENCED ON THIS PLAN ARE APPROXIMATE AND ONLY SHOWN ON LOTS INCLUDED IN APPLICATION.

WETLAND LEGEND:

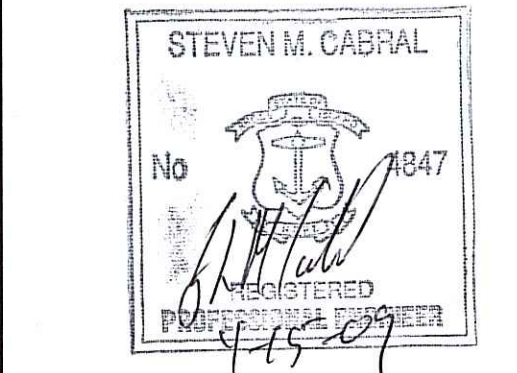
- C19 WETLAND FLAG/EDGE
- 50' PERIMETER WETLAND
- 100' RIVERBANK WETLAND
- 200' RIVERBANK WETLAND
- STREAM/RIVER (AS NOTED)
- AREA SUBJECT TO FLOODING (ASF)
- EDGE OF WATER
- TOP OF BANK

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Charles A. Herbert

PERENNIAL RIVER MEASUREMENT (CONDUCTED BY NATURAL RESOURCES SERVICES INC.)	
LOCATION	WATERCOURSE WIDTH
NEAR FLAG A-55	5'
NEAR FLAG A-50	5'
NEAR FLAG A-45	4'
NEAR FLAG A-40	3.5'
NEAR FLAG A-35	4.5'
NEAR FLAG C-28	7'
NEAR FLAG C-44	10'
NEAR FLAG A-20	8'
NEAR FLAG C-54	11'
NEAR FLAG A-11	7'
NEAR FLAG A-9	8'
NEAR FLAG A-8	5'
AVERAGE WIDTH = 6.5'	

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 Phone: (401) 739-5660 - Fax: (401) 739-8157
 Email: cel@crossmaneng.com



ASSESSOR'S PLAT 159
 LOTS 1, 2 & 5
 ASSESSOR'S PLAT 142 LOT 26
 & 124
 AND PORTION OF
 ASSESSOR'S PLAT 158 LOT 78

ZONING DISTRICT: (F-2)
 FARMING/RESIDENTIAL

PROJECT TITLE:

**SITE STABILIZATION FOR
 GRAVEL REMOVAL
 OPERATION**

RAILROAD AVENUE
 HARRISVILLE, RHODE ISLAND

PREPARED FOR:

BRUCE & DAVID BARNES
 873 PROVIDENCE PIKE
 PUTNAM, CT 06260

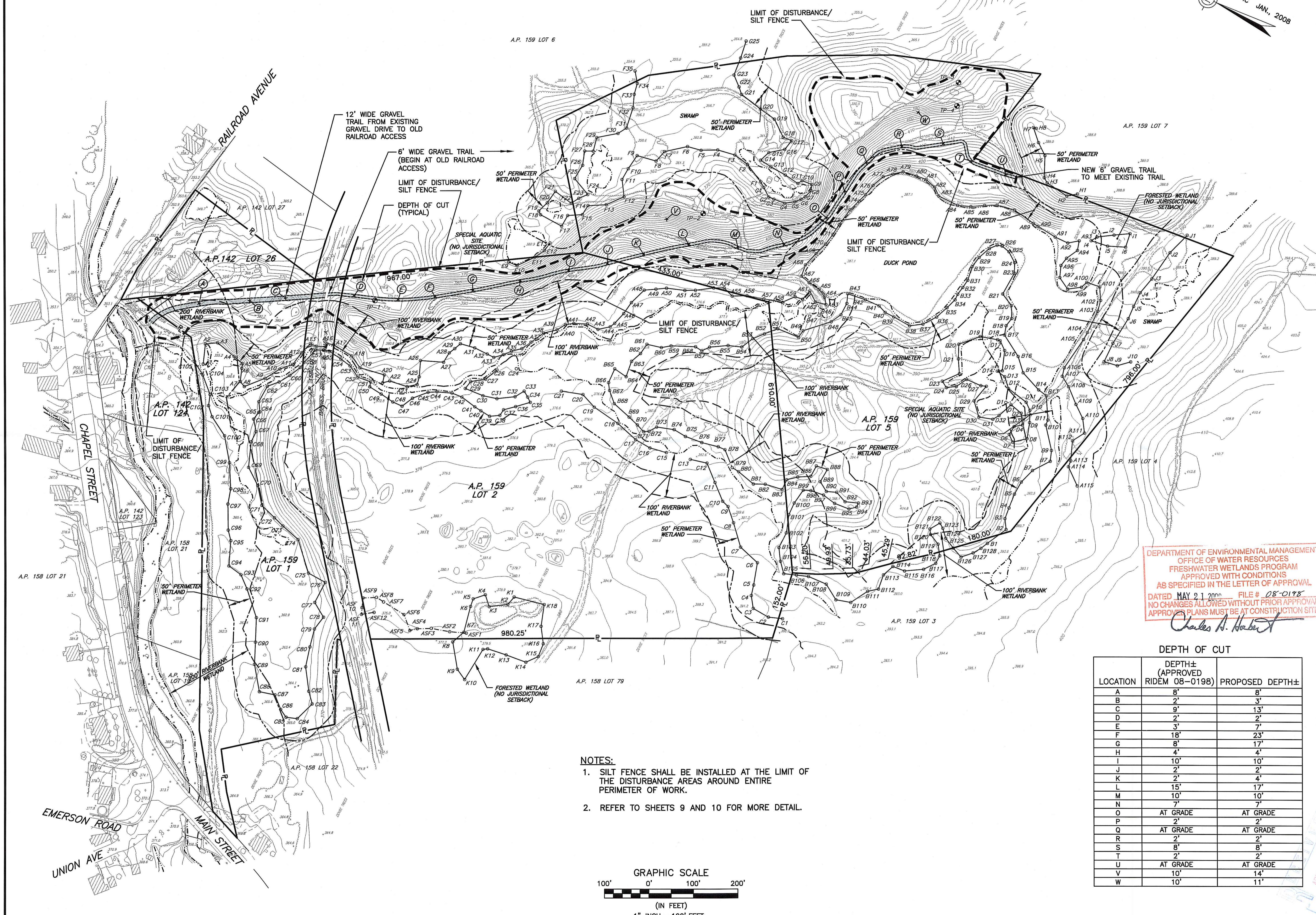
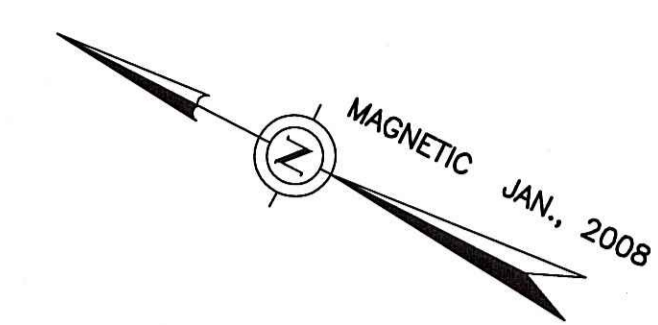
DRAWING TITLE:
 EXISTING CONDITIONS PLAN

DATE: MAY, 2008 **SCALE:** 1"=100'
DWG. NAME: 1439-C4-REV1.dwg

REVISIONS

NUMBER	REMARKS	DATE
1	GRADING	04/06/09

DRAWING NUMBER
C4
 SHEET: 5 OF: 11
 RIDEM WETLANDS SUBMISSION



12' WIDE GRAVEL TRAIL FROM EXISTING GRAVEL DRIVE TO OLD RAILROAD ACCESS

6' WIDE GRAVEL TRAIL (BEGIN AT OLD RAILROAD ACCESS)

LIMIT OF DISTURBANCE/ SILT FENCE

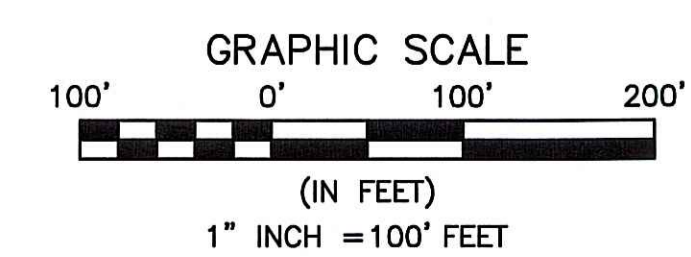
DEPTH OF CUT (TYPICAL)

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL

DATED MAY 21 2008 FILE # 08-0198
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

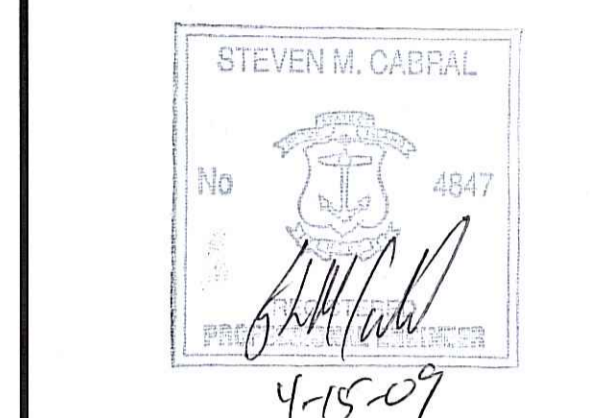
Charles A. Herbert

- NOTES:**
- SILT FENCE SHALL BE INSTALLED AT THE LIMIT OF THE DISTURBANCE AREAS AROUND ENTIRE PERIMETER OF WORK.
 - REFER TO SHEETS 9 AND 10 FOR MORE DETAIL.



DEPTH OF CUT

LOCATION	DEPTH± (APPROVED RIDEM 08-0198)	PROPOSED DEPTH±
A	8'	8'
B	2'	3'
C	9'	13'
D	2'	2'
E	3'	7'
F	18'	23'
G	8'	17'
H	4'	4'
I	10'	10'
J	2'	2'
K	2'	4'
L	15'	17'
M	10'	10'
N	7'	7'
O	AT GRADE	AT GRADE
P	2'	2'
Q	AT GRADE	AT GRADE
R	2'	2'
S	8'	8'
T	2'	2'
U	AT GRADE	AT GRADE
V	10'	14'
W	10'	11'



ASSESSOR'S PLAT 159
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ASSESSOR'S PLAT 142 LOT 26
& 124
AND PORTION OF
ASSESSOR'S PLAT 158 LOT 78

ZONING DISTRICT: (F-2)
FARMING/RESIDENTIAL

PROJECT TITLE:

**SITE STABILIZATION FOR
GRAVEL REMOVAL
OPERATION**

RAILROAD AVENUE
HARRISVILLE, RHODE ISLAND

PREPARED FOR:

BRUCE & DAVID BARNES
873 PROVIDENCE PIKE
PUTNAM, CT 06260

DRAWING TITLE:

OVERALL SITE PLAN

DATE: MAY, 2008 SCALE: 1"=100'

DWG. NAME: 1439-C6-REV1.dwg

REVISIONS

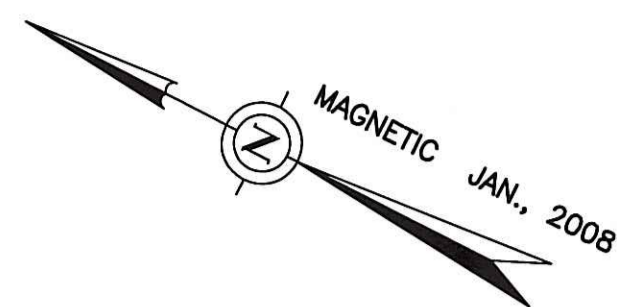
NUMBER	REMARKS	DATE
1	GRADING	04/06/09

DRAWING NUMBER

C6

SHEET: 8 OF 11

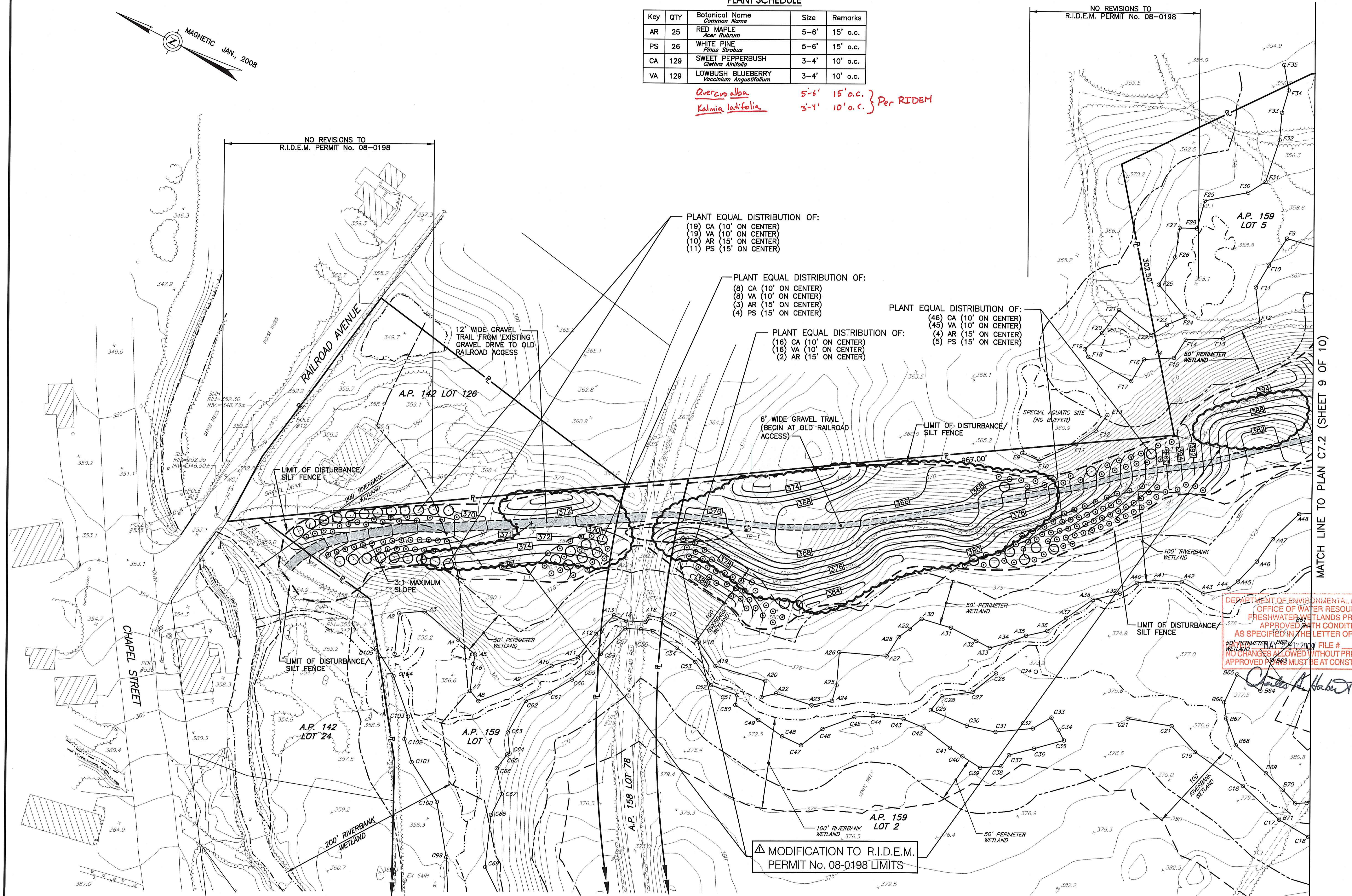
RIDEM WETLANDS SUBMISSION



PLANT SCHEDULE

Key	QTY	Botanical Name Common Name	Size	Remarks
AR	25	RED MAPLE <i>Acer Rubrum</i>	5-6'	15' o.c.
PS	26	WHITE PINE <i>Pinus Strobus</i>	5-6'	15' o.c.
CA	129	SWEET PEPPERBUSH <i>Clethra Alnifolia</i>	3-4'	10' o.c.
VA	129	LOWBUSH BLUEBERRY <i>Vaccinium Angustifolium</i>	3-4'	10' o.c.

Quercus alba 5-6' 15' o.c.
Kalmia latifolia 3-4' 10' o.c. } Per RIDEM



PLANT EQUAL DISTRIBUTION OF:
(19) CA (10' ON CENTER)
(19) VA (10' ON CENTER)
(10) AR (15' ON CENTER)
(11) PS (15' ON CENTER)

PLANT EQUAL DISTRIBUTION OF:
(8) CA (10' ON CENTER)
(8) VA (10' ON CENTER)
(3) AR (15' ON CENTER)
(4) PS (15' ON CENTER)

PLANT EQUAL DISTRIBUTION OF:
(16) CA (10' ON CENTER)
(16) VA (10' ON CENTER)
(2) AR (15' ON CENTER)

PLANT EQUAL DISTRIBUTION OF:
(46) CA (10' ON CENTER)
(45) VA (10' ON CENTER)
(4) AR (15' ON CENTER)
(5) PS (15' ON CENTER)

NO REVISIONS TO
R.I.D.E.M. PERMIT No. 08-0198

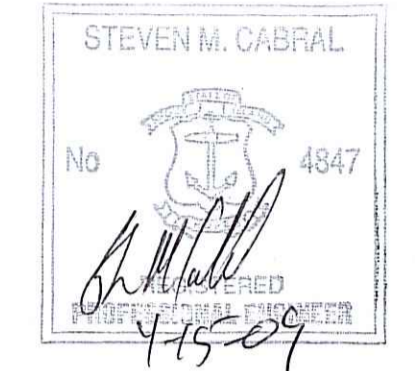
NO REVISIONS TO
R.I.D.E.M. PERMIT No. 08-0198

MATCH LINE TO PLAN C7.2 (SHEET 9 OF 10)

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
FILE # 08-0198
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED BY: [Signature]



CROSSMAN ENGINEERING, INC.
151 Centerville Road
Warwick, Rhode Island 02886
Phone: (401) 738-5660 - Fax: (401) 738-8157
Email: cel@crossmaneng.com



ASSESSOR'S PLAT 159
LOTS 1, 2 & 5
ASSESSOR'S PLAT 142 LOT 26
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ASSESSOR'S PLAT 158 LOT 78

ZONING DISTRICT: (F-2)
FARMING/RESIDENTIAL

SITE STABILIZATION FOR GRAVEL REMOVAL OPERATION
RAILROAD AVENUE
HARRISVILLE, RHODE ISLAND

PREPARED FOR:
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873 PROVIDENCE PIKE
PUTNAM, CT 06260

DRAWING TITLE:
SITE GRADING PLAN No. 1

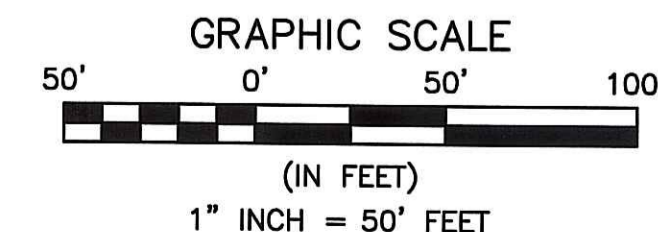
DATE: MAY, 2008 SCALE: 1"=50'

DWG. NAME: 1439-C7.1-REV1.dwg

REVISIONS		
NUMBER	REMARKS	DATE
1	GRADING	04/06/09

DRAWING NUMBER
C7.1
SHEET: 9 OF 11

RIDEM WETLANDS SUBMISSION

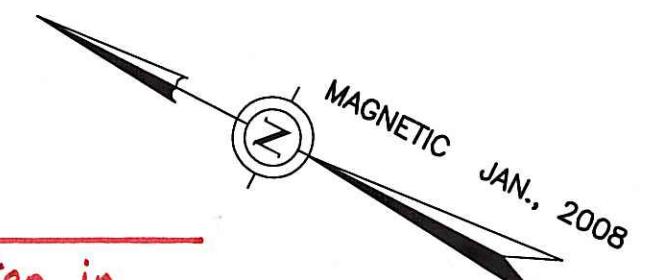


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△ MODIFICATION TO R.I.D.E.M. PERMIT NO. 08-0198 LIMITS

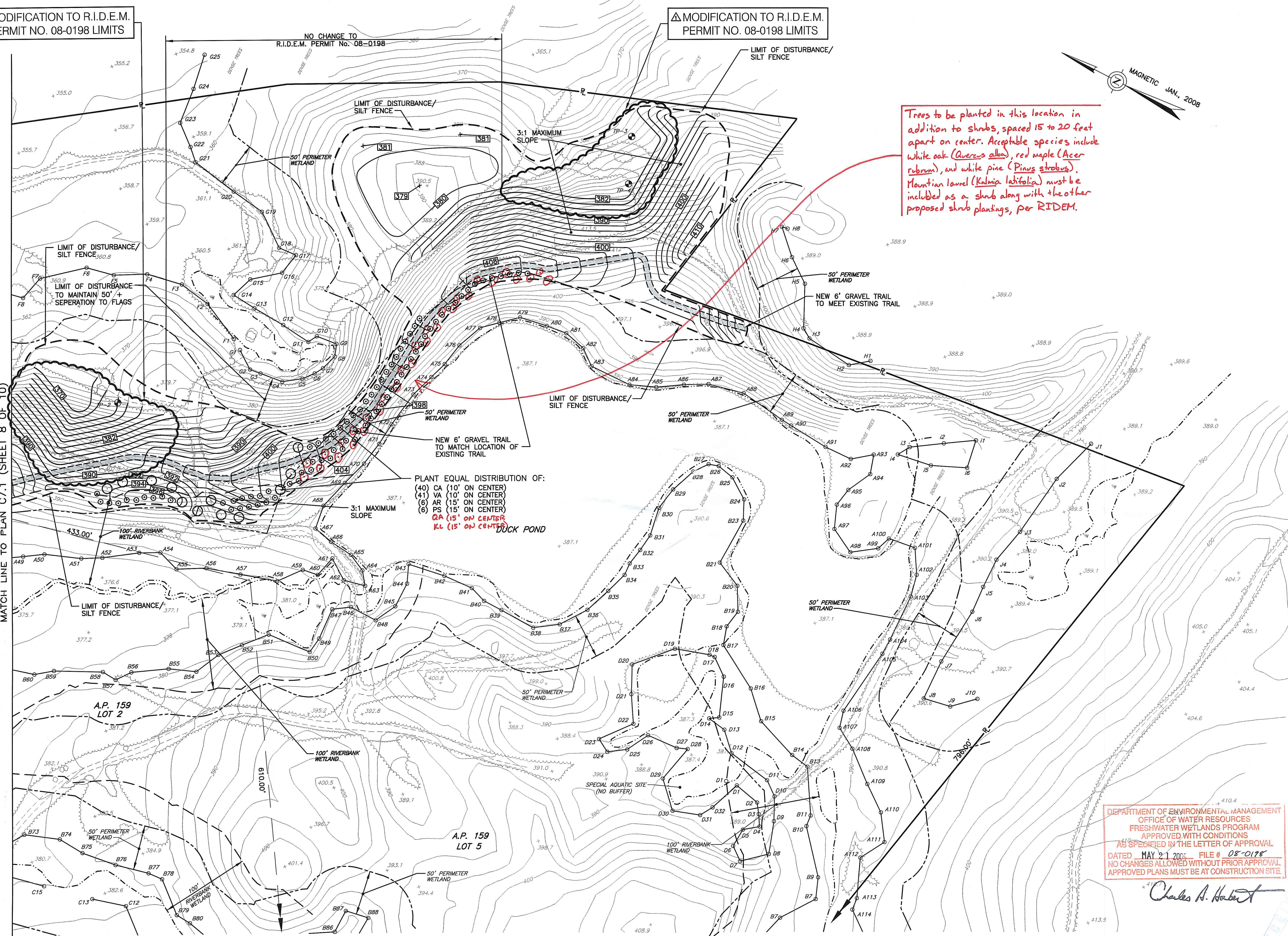
△ MODIFICATION TO R.I.D.E.M. PERMIT NO. 08-0198 LIMITS

NO CHANGE TO R.I.D.E.M. PERMIT NO. 08-0198



Trees to be planted in this location in addition to shrubs, spaced 15 to 20 feet apart on center. Acceptable species include white oak (*Quercus alba*), red maple (*Acer rubrum*), and white pine (*Pinus strobus*). Mountain laurel (*Kalmia latifolia*) must be included as a shrub along with the other proposed shrub plantings, per RIDEM.

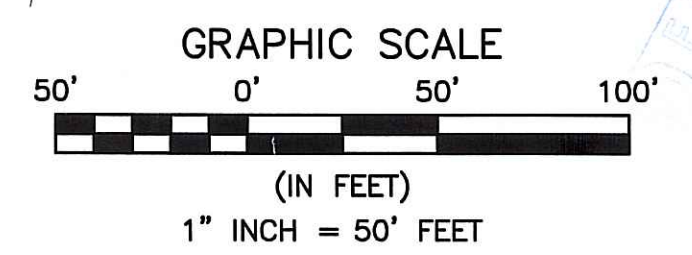
MATCH LINE TO PLAN C7.1 (SHEET 8 OF 10)



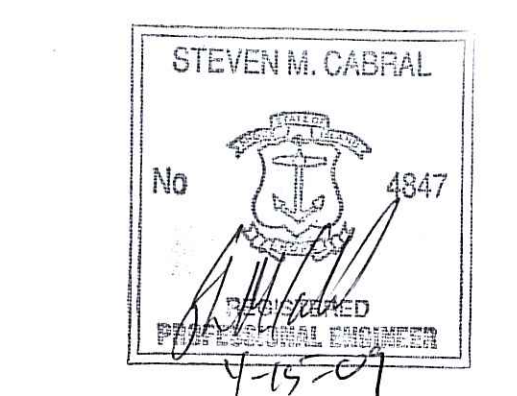
PLANT EQUAL DISTRIBUTION OF:
 (40) CA (10' ON CENTER)
 (41) VA (10' ON CENTER)
 (6) AR (15' ON CENTER)
 (6) PS (15' ON CENTER)
 (6) CA (15' ON CENTER)
 (6) KL (15' ON CENTER)

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Charles A. Harbert



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ASSESSOR'S PLAT 159 LOTS 1, 2 & 5
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 873 PROVIDENCE PIKE
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DRAWING TITLE:
SITE GRADING PLAN No. 2

DATE: MAY, 2008 SCALE: 1"=50'
 DWG. NAME: 1439-C7.2-REV1.dwg

REVISIONS		
NUMBER	REMARKS	DATE
1	GRADING	04/06/09

DRAWING NUMBER
C7.2
 SHEET: 10 OF 11
 RIDEM WETLANDS SUBMISSION

