SITE PLAN REVIEW
FOR
KENDALL AUTO & TRUCK SALES
LAND OF
DAYNA M. CUMMINGS
ROUTE 125 & CHAPMAN DRIVE
BARRINGTON, N.H.
TAX MAP 220, LOT 43

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SHEET 6 – PROPOSED LANDSCAPING PLAN
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FOR PLANNING BOARD APPROVAL PURPOSES :

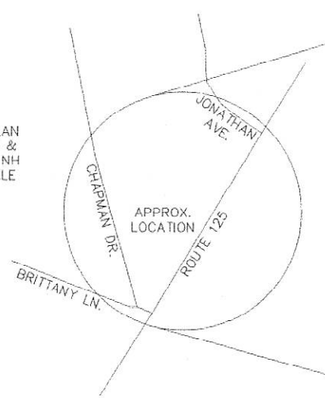
THE SUBDIVISION REGULATIONS OF THE TOWN OF BARRINGTON ARE A PART OF THIS PLAT, AND APPROVAL OF THIS PLAN IS CONTIGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SUBDIVISION REGULATIONS, EXCEPTING ONLY MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.

OWNER: DAYNA M. CUMMINGS
417 ROUTE 125
BRENTWOOD, NH 03833

DEVELOPER: DAYNA M. CUMMINGS
417 ROUTE 125
BRENTWOOD, NH 03833

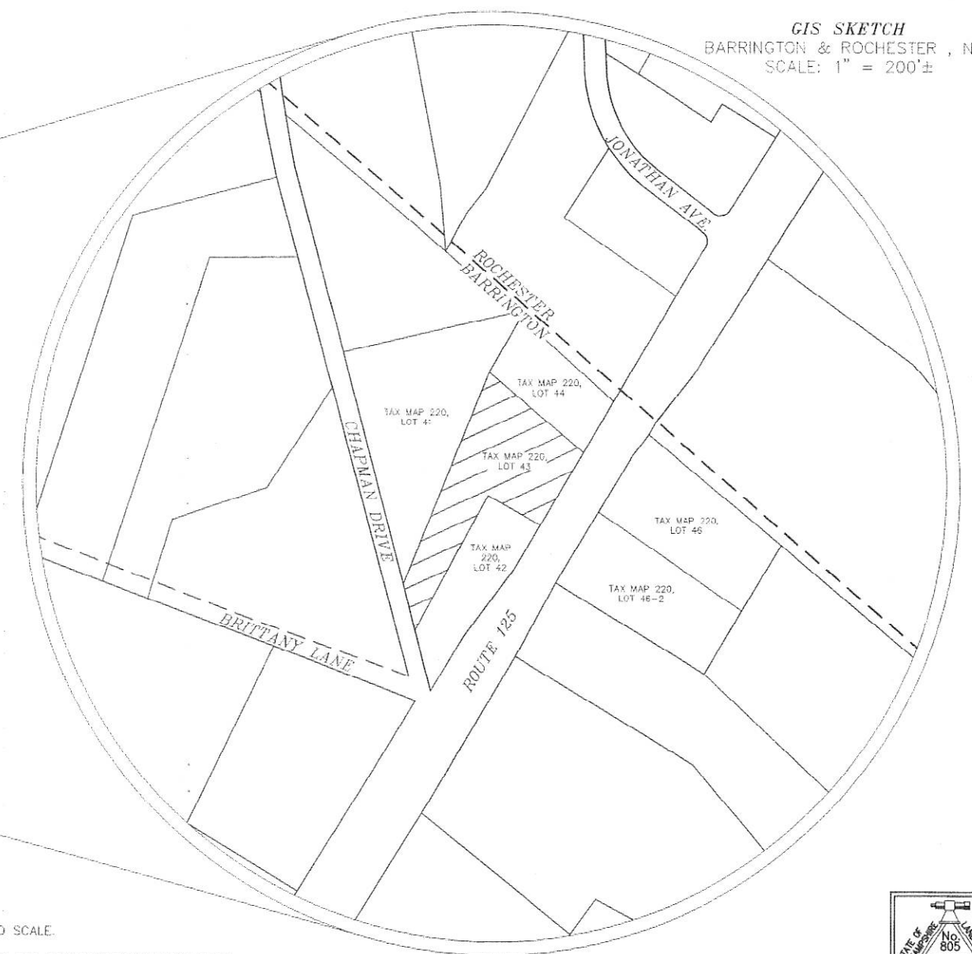
SURVEYOR OF RECORD: KENNETH A. BERRY, PE, LLS
CPESC, CESSWI
BERRY SURVEYING & ENGINEERING
335 CROWN POINT ROAD
BARRINGTON, NH 03825
(603) 332-2863

ENGINEER OF RECORD: KENNETH A. BERRY, PE, LLS
CPESC, CESSWI
BERRY SURVEYING & ENGINEERING
335 CROWN POINT ROAD
BARRINGTON, NH 03825
(603) 332-2863



LOCATION PLAN
BARRINGTON & ROCHESTER, NH
NOT TO SCALE

GIS SKETCH
BARRINGTON & ROCHESTER , N.H.
SCALE: 1" = 200'±



REQUIRED PERMITS:

~ NHDOT

GENERAL PLAN SET NOTES:

1.) 11x17" PLANS ARE HALF THE PUBLISHED SCALE.

2.) ALL PLANS ARE CONSIDERED TO BE NOT FOR CONSTRUCTION UNLESS THEY CONTAIN THE APPROVAL STAMP OF THE CITY OF BARRINGTON.

STATE OF NEW HAMPSHIRE
No. 805
KENNETH A. BERRY
LICENSED LAND SURVEYOR
SIGNATURE

REVISION	DATE	DESCRIPTION
1	8/12/15	PLANNING BOARD SITE REVIEW APPLICATION

SITE PLAN REVIEW
FOR
KENDALL AUTO & TRUCK SALES
LAND OF
DAYNA M. CUMMINGS
ROUTE 125 & CHAPMAN DRIVE
BARRINGTON, N.H.
TAX MAP 220, LOT 43

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (332-2863)

SCALE : AS-NOTED
DATE : JULY 28, 2015
FILE NO. : DB 2015-058

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14243
LICENSED
PROFESSIONAL ENGINEER

TEST HOLE DATA

TEST HOLE #1

0–3"	10YR 3/3 DARK BROWN, FINE SANDY LOAM & ORGANIC MATERIAL, GRANULAR AND FRIABLE (TOPSOIL & FOREST MAT)
3" – 48"	10YR 7/4 VERY PALE BROWN, VERY FINE SANDY LOAM, GRANULAR AND FRIABLE. FEW COBBLES TO 6"
48" – 60"	10YR 6/6 BROWNISH YELLOW, VERY FINE SANDY LOAM, GRANULAR AND FRIABLE OUT OF THE HOLE, FIRM IN PLACE. VERY STONY TO 12"
60"	BOTTOM OF HOLE, NESTED BOULDERS.

S.H.W.T. 48–INCHES
G.W. NO GROUNDWATER OBSERVED
ROOTS 36"
PERC. RATE: 4 MINUTES PER INCH.

TEST HOLE #2

0–3"	10YR 3/3 DARK BROWN, FINE SANDY LOAM & ORGANIC MATERIAL, GRANULAR AND FRIABLE (TOPSOIL & FOREST MAT)
3 – 6"	10YR 7/4 VERY PALE BROWN, VERY FINE SANDY LOAM, GRANULAR AND FRIABLE. FEW COBBLES TO 6"
6"	BOTTOM OF HOLE, REFUSAL

G.W. NO GROUNDWATER OBSERVED
ROOTS 36"

TEST HOLE #3

0–5"	10YR 3/3 DARK BROWN, FINE SANDY LOAM & ORGANIC MATERIAL, GRANULAR AND FRIABLE (TOPSOIL & FOREST MAT)
5" – 48"	10YR 7/4 VERY PALE BROWN, VERY FINE SANDY LOAM, GRANULAR AND FRIABLE. FEW COBBLES TO 6"
48" – 60"	10YR 6/6 BROWNISH YELLOW, VERY FINE SANDY LOAM, GRANULAR AND FRIABLE OUT OF THE HOLE, FIRM IN PLACE. VERY STONY TO 12"
60"	BOTTOM OF HOLE, NESTED BOULDERS.

S.H.W.T. 48–INCHES
G.W. NO GROUNDWATER OBSERVED
ROOTS 36"
PERC. RATE: 4 MINUTES PER INCH.

LEGEND:

- IRON BOUND ~TBS~
- IRON BOUND ~FND~
- GRANITE BOUND ~FND~
- STONE BOUND ~FND~
- UTILITY POLE
- GUY WIRE
- CURB STOP
- GATE VALVE
- GAS VALVE
- FIRE HYDRANT
- CATCH BASIN
- SEWER MAN HOLE
- SINGLE POST SIGN
- POLE LIGHT
- TESTPIT
- TREE
- BUILDING SETACK LINE
- EASEMENT LINE
- GAS LINE
- WATER LINE
- SEWER LINE
- OVERHEAD UTILITYS
- UNDERGROUND UTILITIES
- HIGHWAY FENCE
- SOILS LINE
- MAJOR CONTOUR LINE
- MINOR CONTOUR LINE
- R.O.W. LINE
- ABUTTING LOT LINES
- SPOT ELEVATION
- 50' WETLAND BUFFER
- EXISTING CONTOUR MINOR
- EXISTING CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- PROPOSED CULVERT W/ FLARED END SECTION (F.E.S.)
- DETAIL SHEET / DETAIL
- PROPOSED & EXISTING TREELINE
- RIP–RAP APRON
- PROPOSED CENTER LINE
- PROPOSED UNDERGROUND UTILITY
- PROPOSED UNDER DRAIN (U.D.)
- PROPOSED TRANSFORMER / JUNCTION BOX
- EXISTING SECTOR CABINET AND ELECTRIC MANHOLE

ABBREVIATION LEGEND:

S.G.C.	SLOPED GRANITE CURB
V.G.C.	VERTICAL GRANITE CURB
E.O.P.	EDGE OF PAVEMENT
B.C.C.	BITUMINOUS CONCRETE CURB
BITUM.	BITUMINOUS
E.O.P.	EDGE OF PAVEMENT
TYP.	TYPICAL
T. BLOCK	THRUST BLOCK
CONC.	CONCRETE
U.G.E.	UNDER GROUND ELECTRIC / UTILITY
U.D.	UNDER DRAIN
F.E.S.	FLARED END SECTION
HDPE	HIGH DENSITY POLYETHYLENE
RCP	REINFORCED CONCRETE PIPE
F.G.	FINISHED GRADE
E.G.	EXISTING GRADE
T.W.	TRAVELED WAY

SSL ( ) ~ {SIZE} SINGLE SOLID LINE (COLOR W=WHITE, Y=YELLOW)
DSL ( ) ~ {SIZE} DOUBLE SOLID LINE (COLOR W=WHITE, Y=YELLOW)
SSB ( ) ~ {SIZE} SINGLE SOLID W/ BROKEN LINE (COLOR W=WHITE, Y=YELLOW)
SBL ( ) ~ {SIZE} SINGLE BROKEN LINE (COLOR W=WHITE, Y=YELLOW)
DBL ( ) ~ {SIZE} DOUBLE BROKEN LINE (COLOR W=WHITE, Y=YELLOW)

SIGN ID NUMBER	SIGN SIZE (WIDTH x HEIGHT)	SIGN	TEXT DIMENSIONS	NO. OF SIGNS	BACKGROUND	LEGEND	BORDER	POST SIZE & QUANTITY	UNIT AREA	AREA (Sq.Ft.)
R7–8	15"x30"	RESERVED PARKING R7–8	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	4	WHITE	BLACK	BLACK	U–CHANNEL (1)	6.25	6.25
R7–1	15"x30"	NO PARKING ANY TIME	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	10	WHITE	BLACK	BLACK	U–CHANNEL (1)	6.25	6.25

GIS SKETCH
BARRINGTON & ROCHESTER , N.H.
SCALE: 1" = 200'±

REVISION	DATE	DESCRIPTION
1	8/12/15	PLANNING BOARD SITE REVIEW APPLICATION

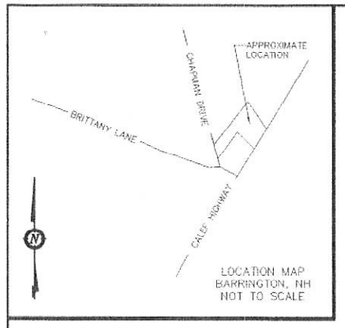
1500' NEIGHBORHOOD PLAN
FOR
KENDALL AUTO & TRUCK SALES
LAND OF
DAYNA M. CUMMINGS
ROUTE 125 & CHAPMAN DRIVE
BARRINGTON, N.H.
TAX MAP 220, LOT 43

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 {332–2863}

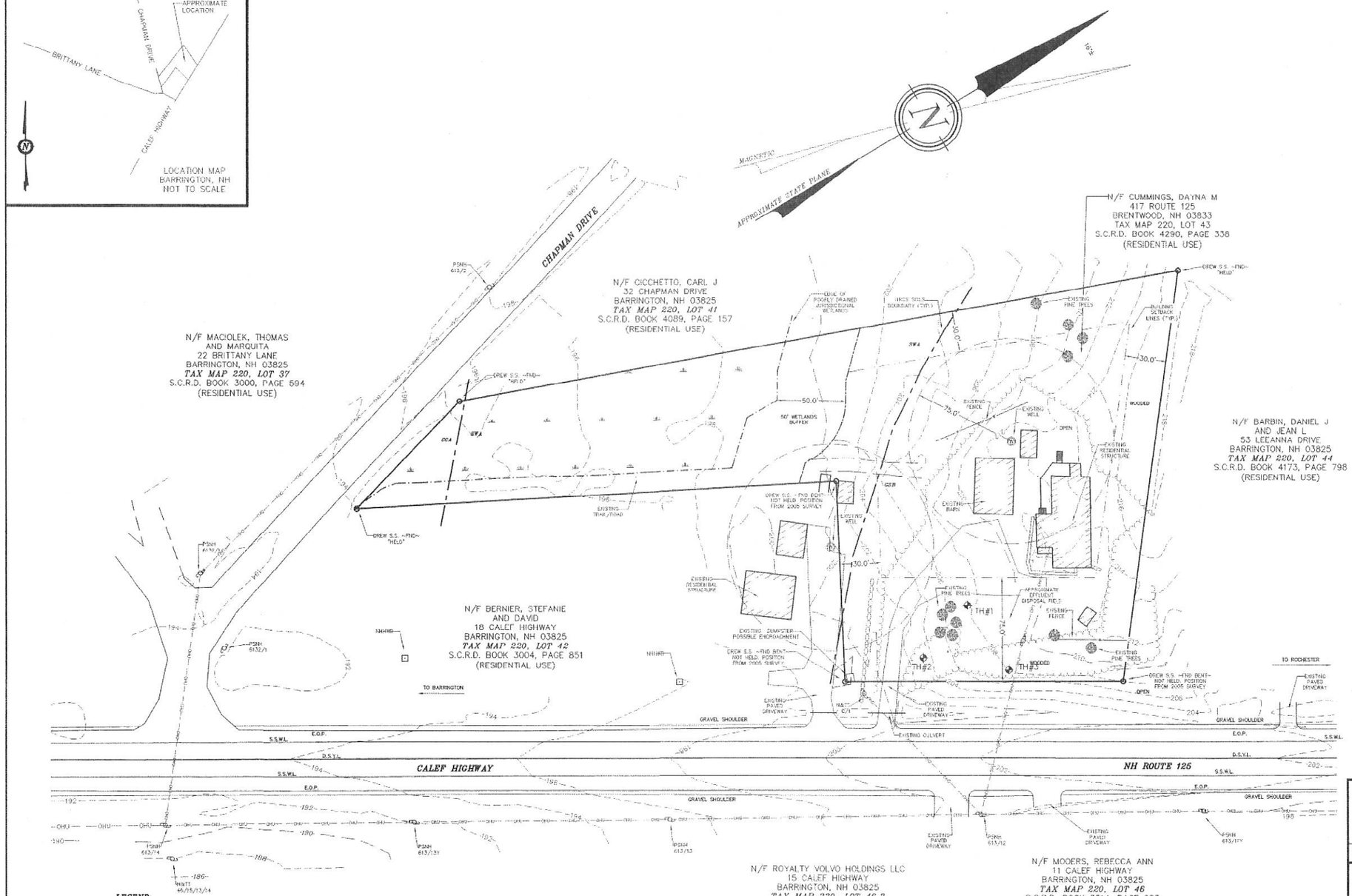
SCALE : AS–NOTED
DATE : JULY 28, 2015
FILE NO. : DB 2015–058

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14243
LICENSED
PROFESSIONAL ENGINEER

SHEET 1 OF 11



LOCATION MAP
BARRINGTON, NH
NOT TO SCALE



LEGEND:

- ● IRON BOUND
- ⊗ STEEL STAKE (FND)
- O IRON PIPE (FND)
- × IRON BOUND (FND)
- ⊠ ANGLE IRON (FND)
- ◉ DRILL HOLE (FND OR SET)
- TBS TO BE SET
- FND FOUND
- TYP TYPICAL
- STONE WALL
- BUILDING SETBACK LINE
- EASEMENT LINE
- JURISDICTIONAL WETLAND LINE
- WELL
- UTILITY POLE

NOTES:

1.) OWNER: PROJECT ADDRESS: DAYNA CUMMINGS
16 CALEF HIGHWAY
BARRINGTON, NH 03825

MAILING ADDRESS: DAYNA CUMMINGS
417 ROUTE 125
BRENTWOOD, NH 03833

2.) TAX MAP 220, LOT 43

3.) S.C.R.D. BOOK 4290, PAGE 338

4.) LOT AREA: 90,169.2 Sq. Ft., 2.07 Ac.

5.) THE INTENT OF THIS PLAN IS TO SHOW THE EXISTING BOUNDARIES AND CONDITIONS OF TAX MAP 220, LOT 43, LOCATED IN BARRINGTON, N.H., AS OF THE DATE OF THIS PLAN.

6.) I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, A PORTION OF THIS PROPERTY DOES NOT FALL WITHIN THE FLOOD PLAIN FLOOD HAZARD REF: FEMA COMMUNITY #330178, MAP 33017C0305D, DATED: MAY 17, 2005.

7.) VERTICAL DATUM BASED ON NAVD88 ELEVATIONS. COORDINATES GATHERED USING TOPCON HIPER SR SURVEY GRADE GPS.

8.) EXISTING IMPERVIOUS ARE = 8,679.36 Sq.Ft. 9.63 %

ZONING:

ZONE:	REGIONAL COMMERCIAL
MIN. LOT SIZE:	40,000 Sq. Ft.
MIN. FRONTAGE:	200'
FRONT SETBACK:	75'
SIDE SETBACK:	30'
REAR SETBACK:	30'
OPEN SPACE:	15%
MAX. LOT COVERAGE:	50%
MAX. HEIGHT:	40' – THREE STORY
RESIDENTIAL BUFFER:	50'

SITE PLAN REVIEW

NON–RESIDENTIAL PARKING AREA: FRONT BUFFER (50') 4.2.3(5)

SOILS:

GSB ~ GLOUSTER VERY STONY FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES
SWA ~ SWANTON FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES
SCA ~ SCANTIC SLIT LOAM, 0 TO 3 PERCENT SLOPES

SEE WEBSOIL USDA–NRCS

PLAN REFERENCES:

1.) "REVISED BOUNDARY PLAN RICHARD A. DURCH AND PAUL R. CHAPMAN BARRINGTON N.H."
BY: FREDERICK E. DREW ASSOCIATES
DATED: OCTOBER 1979
S.C.R.D.: PLAN # 17C–139

2.) "SUBDIVISION OF LOT 4 PAUL R. CHAPMAN BARRINGTON, N.H."
BY: FREDERICK E. DREW ASSOCIATES
DATED: APRIL 1983
S.C.R.D.: PLAN #17B–17

3.) "SITE PLAN FOR JEFFREY W. SUTTON ROUTE 125
BARRINGTON, N.H. 03825"
BY: BERRY SURVEYING & ENGINEERING
DATED: AUGUST 16, 2005
DB 2005 – 052

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN.

8-12-15

KENNETH A. BERRY L.L.S. 805 DATE

REVISION	DATE	DESCRIPTION
1	8/12/15	PLANNING BOARD SITE REVIEW APPLICATION

EXISTING CONDITIONS
FOR KENDALL AUTO AND TRUCK SALES
LAND OF DAYNA CUMMINGS
16 CALEF HIGHWAY
BARRINGTON, NH
TAX MAP 220, LOT 43

STATE OF NEW HAMPSHIRE No. 805 KENNETH A. BERRY LICENSED LAND SURVEYOR SIGNATURE

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT RD.
BARRINGTON, N.H. 332–2863

SCALE : 1 IN. EQUALS 40 FT.
DATE : JULY 28, 2015
FILE NO. : DB 2015 – 058

LEGEND:

- IRON BOUND
- STEEL STAKE (FND)
- IRON PIPE (FND)
- IRON BOUND (FND)
- ANGLE IRON (FND)
- DRILL HOLE (FND OR SET)

TBS TO BE SET
FND FOUND
TYP TYPICAL
STONE WALL
BUILDING SETBACK LINE
EXISTING PAVEMENT
JURISDICTIONAL WETLAND LINE
WETLAND BUFFER
WELL
UTILITY POLE

THE WETLAND DELINEATION WAS COMPLETED MAY 2015 IN ACCORDANCE WITH THE 1987 CORP OF ENGINEERS WETLAND DELINEATION MANUAL. JURISDICTIONAL WETLANDS WERE IDENTIFIED AND DELINEATED USING THE ROUTINE DETERMINATIONS METHOD AS OUTLINED IN THE MANUAL. THE DELINEATION WAS DONE BY:

MARC E. JACOBS – CWS

N/F CICCHETTO, CARL J
32 CHAPMAN DRIVE
BARRINGTON, NH 03825
TAX MAP 220, LOT 41
S.C.R.D. BOOK 4089, PAGE 157
(RESIDENTIAL USE)

N/F CUMMINGS, DAYNA M
417 ROUTE 125
BRENTWOOD, NH 03833
TAX MAP 220, LOT 43
S.C.R.D. BOOK 4290, PAGE 338
(RESIDENTIAL USE)

N/F BERNIER, STEFANIE AND DAVID
18 CALEF HIGHWAY
BARRINGTON, NH 03825
TAX MAP 220, LOT 42
S.C.R.D. BOOK 3004, PAGE 851
(RESIDENTIAL USE)

N/F BARBIN, DANIEL J AND JEAN L
53 LEEANNA DRIVE
BARRINGTON, NH 03825
TAX MAP 220, LOT 44
S.C.R.D. BOOK 4173, PAGE 798
(RESIDENTIAL USE)

EDGE OF POORLY DRAINED JURISDICTIONAL WETLANDS
50' WETLANDS BUFFER
EXISTING TRAIL/ROAD
EXISTING PINE TREES
BUILDING SETBACK LINES (TYP.)
SNOW STORAGE
LOW TO NO VOLUME PARKING AREA. AISLE WIDTH WAIVER REQUESTED
STORM WATER DRY SWALE FOR TREATMENT
EXISTING BARN/SHOP 1 BAY FOR AUTOMOTIVE REPAIR
PROP. E.O.P. (TYP.)
EXISTING RESIDENTIAL STRUCTURE/USED CAR SALES OFFICE
DREW S.S. ~END BENT~ NOT HELD. POSITION FROM 2005 SURVEY
PROP. GRASSED AREA
PROP. 4" PAVEMENT MARKING "WHITE" (TYP.)
PROP. BITUMINOUS CONCRETE
PROP. TYPICAL PARKING SPACE 9' x 18'
POTENTIAL LOCATION OF REVISED EFFLUENT DISPOSAL FIELD
PAINTED ISLAND (W)
ADA RAMP
HANDICAPPED AND NO PARKING SIGNS
PROPOSED LOCATION OF RAIN GARDEN BIO-SWALE
STORM WATER DRY SWALE FOR TREATMENT
EXISTING PINE TREES
LOW TO NO VOLUME PARKING AREA. AISLE WIDTH WAIVER REQUESTED
LOW VOLUME DRIVEWAY WIDTH WAIVER REQUESTED
EXISTING PAVED DRIVEWAY TO BE RECONSTRUCTED
APPROXIMATE LOCATION OF EXISTING EFFLUENT DISPOSAL FIELD. TO BE RE-USED OR REPLACED AS REQUIRED BY NHDES
PROPOSED SPLIT RAIL FENCE OR BOULDER BARRIER
RAIN GARDEN AND LANDSCAPING DESIGN
DISPLAY AREA APPLICANT MAY NOT LINE AS APPROPRIATE FOR USE CAR SALES
EXISTING CULVERT
EXISTING PAVED DRIVEWAY
GRAVEL SHOULDER
E.O.P.
S.S.W.L.
D.S.Y.L.
CALEF HIGHWAY (PAVED CLASS V OR BETTER)
NH ROUTE 125
TO BARRINGTON
TO ROCHESTER
MAGNETIC
APPROXIMATE STATE PLANE
GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

PARKING CALCULATIONS:

PROPOSED AUTOMOTIVE AND TRUCK REPAIR SHOP
AUTO SERVICE STATION & REPAIR GARAGE: 2 SPACES/SERVICE BAY REQUIRED
1 SERVICE BAYS, 2 SPACES REQUIRED

DEDICATED SPACES WILL BE ALONG THE SOUTH EDGE OF THE SHOP

PROPOSED 20 SPACES FOR AUTOMOTIVE SALES.
1 ADA SPACE VAN ACCESSIBLE

TOTAL: 21 SPACES PROVIDED TOTAL

ZONING:

ZONE:	REGIONAL COMMERCIAL (W/ STRATIFIED DRIFT OVERLAY)
MIN. LOT SIZE:	40,000 Sq. Ft.
MIN. FRONTAGE:	200'
FRONT SETBACK:	75'
SIDE SETBACK:	30'
REAR SETBACK:	30'
OPEN SPACE:	15%
MAX. LOT COVERAGE:	50%
MAX. HEIGHT:	40' – THREE STORY
RESIDENTIAL BUFFER:	50'

SITE PLAN REVIEW

NON-RESIDENTIAL PARKING AREA: FRONT BUFFER (50') 4.2.3(5)

NOTES:

1.) OWNER: PROJECT ADDRESS: DAYNA CUMMINGS
16 CALEF HIGHWAY
BARRINGTON, NH 03825

MAILING ADDRESS: DAYNA CUMMINGS
417 ROUTE 125
BRENTWOOD, NH 03833

2.) TAX MAP 220, LOT 43

3.) S.C.R.D. BOOK 4290, PAGE 338

4.) LOT AREA: 90,169.2 Sq. Ft., 2.07 Ac.

5.) THE INTENT OF THIS PLAN IS TO SHOW THE EXISTING BOUNDARIES AND PROPOSED CONDITIONS OF TAX MAP 220, LOT 43, LOCATED IN BARRINGTON, N.H., AS OF THE DATE OF THIS PLAN.

6.) I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, A PORTION OF THIS PROPERTY DOES NOT FALL WITHIN THE FLOOD PLAIN FLOOD HAZARD REF: FEMA COMMUNITY #330178, MAP 33017C0305D, DATED: MAY 17, 2005.

7.) VERTICAL DATUM BASED ON NAVD88 ELEVATIONS. COORDINATES GATHERED USING TOPCON HIPER SR SURVEY GRADE GPS.

8.) EXISTING IMPERVIOUS AREA = 8,679.36 Sq. Ft. 9.63%

9.) PROPOSED IMPERVIOUS AREA = 16,637.94 Sq. Ft. 18.45%

10.) THE INTENT OF SITE PLAN INCORPORATES THE SALES OF NO MORE THAN 20 USED CARS. THE EXISTING BARN / SHOP WILL BE USED FOR AUTOMOTIVE REPAIR. (1 BAY)

11.) HOURS OF OPERATION ARE MONDAY THROUGH FRIDAY 8:00 AM TO 5:00 PM, SATURDAY 10:00 AM TO 2:00 PM, NO SUNDAY HOURS.

12.) WHEN THE APPLICANT WHISHES TO INSTALL SIGNAGE A REVISED OR AMENDED SITE PLAN WILL BE REQUIRED.

13.) SECONDARY CONTAINMENT MAY BE REQUIRED BY BUILDING CODE FOR ANY BULK STORAGE OF MATERIALS BEING USED WITHIN THE AUTOMOTIVE SHOP.

14.) THERE SHALL BE NO EXPANSION OR CHANGE OF USES AS STATED ON THIS PLAN WITHOUT APPROVAL BY THE PLANNING BOARD.

15.) PER ORDER OF THE BARRINGTON FIRE CHIEF, MATERIAL SAFETY DATA SHEETS (MSDS) WILL BE KEPT ON SITE AT ALL TIMES FOR ALL MATERIALS STORES ON SITE.

16.) LIST ANY VARIANCES OR SPECIAL EXCEPTIONS GRANTED BY THE ZONING BOARD OF ADJUSTMENT FOR THE PROPOSED STRUCTURE:
REQUESTED: AUTO REPAIR AND SALES
FRONT BUFFER

17.) THIS PLAN PROPOSES 19,000 SQ. FT. OF DISTURBANCE.

18.) CALL DIG SAFE PRIOR TO BEGINNING WORK (1-888-344-7233)

19.) WRITTEN DIMENSION ON THIS PLAN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS AS THE REPRODUCTION PROCESS MAY DISTORT THE ORIGINAL SCALE. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND/OR SPECIFICATIONS, THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR IS TO CONFIRM ALL ELEVATIONS. CONFLICTS WILL BE REPORTED TO THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

20.) SNOW IS TO BE MOVED OFF-SITE ONCE SNOW STORAGE AREAS ARE FULL.

21.) IF DURING CONSTRUCTION IT BECOMES APPARENT THE DEFICIENCIES EXIST IN THE APPROVED DESIGN DRAWINGS, THE CONTRACTOR SHALL BE REQUIRED TO CORRECT THE DEFICIENCIES TO MEET THE REQUIREMENTS OF THE REGULATIONS AT NO EXPENSE TO THE TOWN.

22.) REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE OF THE SITES SURFACE AREA AND SHALL BE MAINTAINED THROUGH THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES. IF DURING CONSTRUCTION IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE TOWN.

23.) ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO TOWN OF BARRINGTON SUBDIVISION REGULATIONS AND THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.

24.) A LETTER OF CREDIT FOR THE COST OF RE-VEGETATING ALL DISTURBED AREAS ON THE SITE MAY BE REQUIRED PRIOR TO ANY EARTH DISTURBING ACTIVITY OCCURS, AS MAY BE APPLICABLE.

25.) A PRE-CONSTRUCTION CONFERENCE WITH THE DEVELOPER, THE DESIGN ENGINEER, THE EARTHWORK CONTRACTOR AND THE TOWN ENGINEER REPRESENTATIVE SHALL OCCUR PRIOR TO ANY EARTH DISTURBING ACTIVITY.

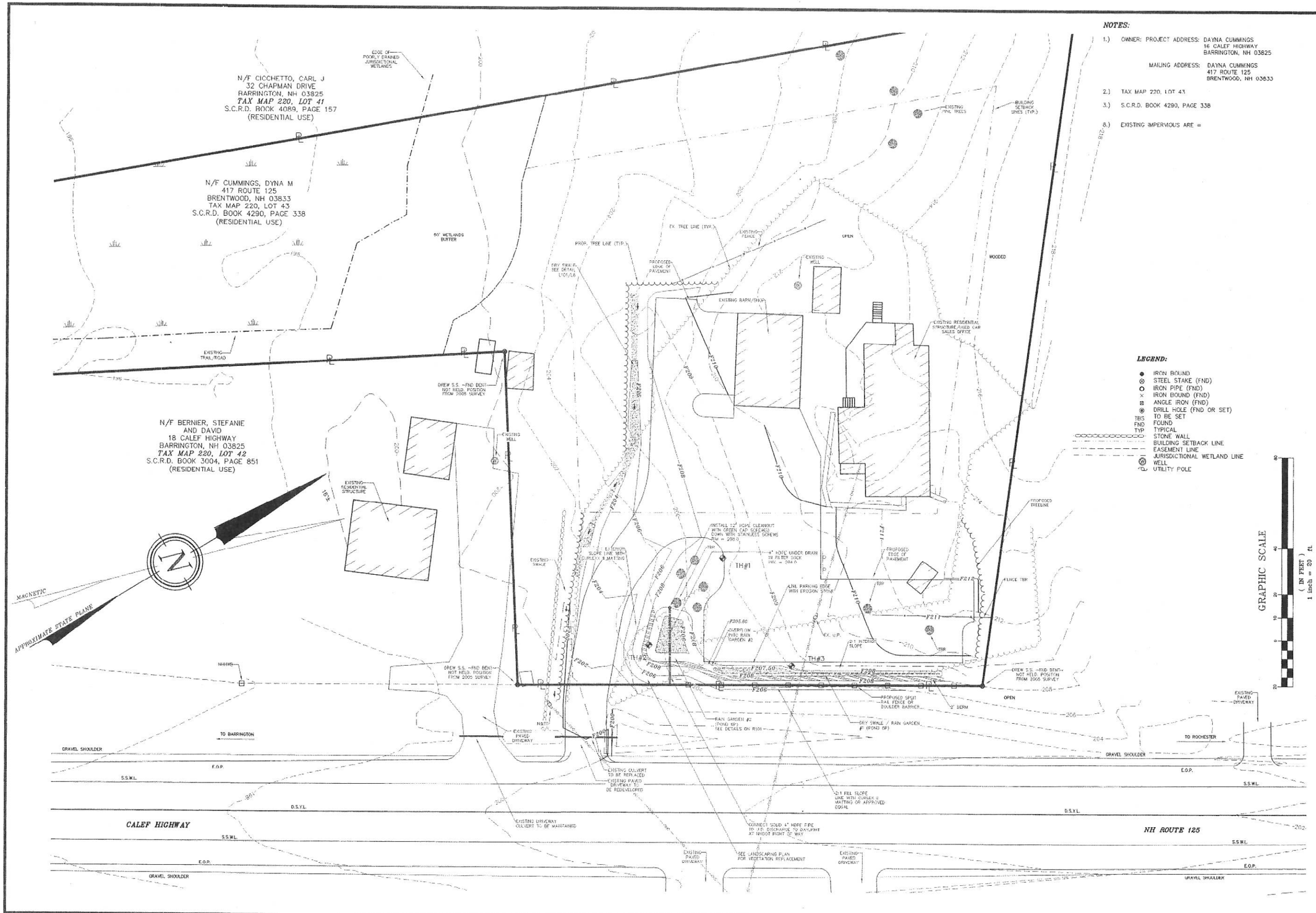
REVISION	DATE	DESCRIPTION
1	8/12/15	PLANNING BOARD SITE REVIEW APPLICATION

SITE PLAN
FOR KENDALL AUTO AND TRUCK SALES
LAND OF DAYNA CUMMINGS
16 CALEF HIGHWAY
BARRINGTON, NH
TAX MAP 220, LOT 43

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (332-2863)

SCALE : 1 IN. EQUALS 20 FT.
DATE : JULY 29, 2015
FILE NO. : DB 2015 – 058

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14243
LICENSED
PROFESSIONAL ENGINEER



NOTES:

1.) OWNER: PROJECT ADDRESS: DAYNA CUMMINGS
16 CALEF HIGHWAY
BARRINGTON, NH 03825

MAILING ADDRESS: DAYNA CUMMINGS
417 ROUTE 125
BRENTWOOD, NH 03833

2.) TAX MAP 220, LOT 43

3.) S.C.R.D. BOOK 4290, PAGE 338

8.) EXISTING IMPERVIOUS ARE =

LEGEND:

- IRON BOUND
- STEEL STAKE (FND)
- IRON PIPE (FND)
- IRON BOUND (FND)
- ANGLE IRON (FND)
- DRILL HOLE (FND OR SET)
- TBS TO BE SET
- FND FOUND
- TYP TYPICAL
- STONE WALL
- BUILDING SETBACK LINE
- EASEMENT LINE
- JURISDICTIONAL WETLAND LINE
- WELL
- UTILITY POLE

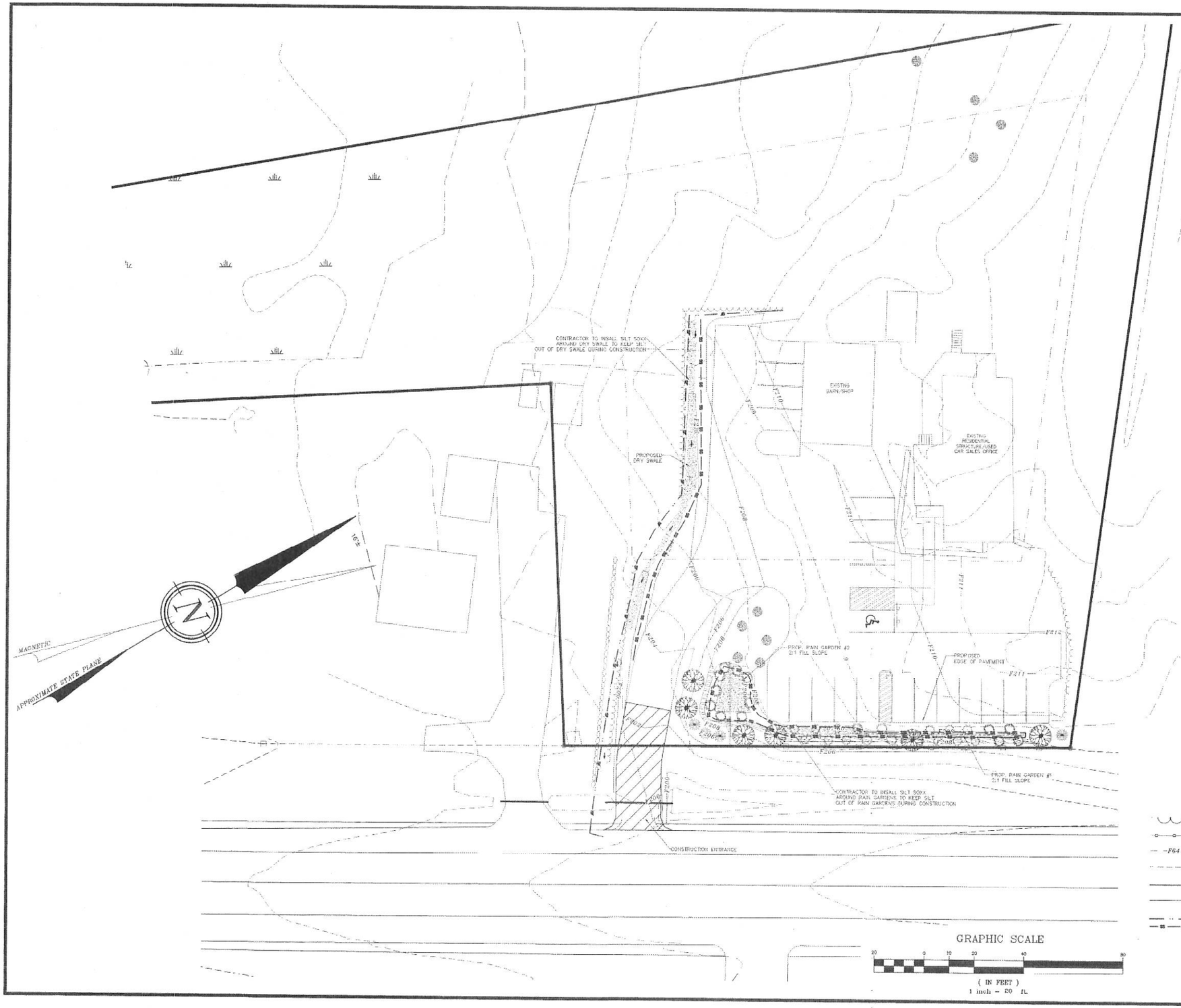
REVISION	DATE	DESCRIPTION
1	8/12/15	PLANNING BOARD SITE REVIEW APPLICATION

PROPOSED GRADING PLAN
FOR KENDALL AUTO AND TRUCK SALES
LAND OF DAYNA CUMMINGS
16 CALEF HIGHWAY
BARRINGTON, NH
TAX MAP 220, LOT 43

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (332-2863)

SCALE : 1 IN. EQUALS 20 FT.
DATE : JULY 29, 2015
FILE NO. : DB 2015 - 058

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14243
LICENSED
PROFESSIONAL ENGINEER



NOTES:

1.) OWNER: PROJECT ADDRESS: DAYNA CUMMINGS
16 CALEF HIGHWAY
BARRINGTON, NH 03825

MAILING ADDRESS: DAYNA CUMMINGS
417 ROUTE 125
BRENTWOOD, NH 03833

2.) BARRINGTON TAX MAP 220, LOT 43

3.) THE PURPOSE OF THIS PLAN IS TO DEMONSTRATE PROPER SEDIMENT AND EROSION CONTROL DURING CONSTRUCTION.

4.) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVE AND BELOW GROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY UTILITY CONFLICTS SHOULD BE REPORTED IMMEDIATELY TO THE DESIGN ENGINEER.

5.) THE CONTRACTOR SHALL CALL AND COORDINATE WITH DIGSAFE 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

6.) SEE DETAILS CONCERNING SITE LAYOUT, DRAINAGE, UTILITY AND SEDIMENT AND EROSION CONTROLS.

7.) ALL DRAINAGE PIPE IS TO BE HDPE N-12 ASTM F2648. INDIVIDUAL PIPE SIZES ARE SPECIFIED.

8.) ALL ELEVATIONS TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE DESIGN ENGINEER IS TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY. TEMPORARY BENCHMARKS (T.B.M.) ARE TO BE PROVIDED BY THE DESIGN ENGINEER.

9.) UPON FINAL COMPLETION AND 85% STABILIZATION THE DRAINAGE SYSTEM IS TO BE CLEANED OF ALL DEBRIS.

10.) ALL UNPAVED AREAS ARE TO RECEIVE 4" QUALITY LOAM AND SEED.

11.) REFERENCE IS MADE THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) DATED _____. A COPY OF THE SWPPP IS TO BE MAINTAINED ON SITE AT ALL TIMES PER THE EPA CONSTRUCTION GENERAL PERMIT (CGP).

12.) INSPECTIONS TO BE CONDUCTED ONCE PER EVERY SEVEN DAYS AND AT AN INCREASED FREQUENCY INCLUDING WITHIN 24-HOURS OF A 0.25 INCH RAIN EVENT. INSPECTIONS TO BE CONDUCTED BY A "QUALIFIED PERSON" AS DEFINED BY EPA CGP 4.1.1 AND INSPECTION REPORTS SUBMITTED TO THE TOWN OF BARRINGTON, NH, ENGINEERING DEPARTMENT WITHIN 24 HOURS IN ACCORDANCE WITH CGP 4.1.7 AND MAINTAINED BY THE OWNER FOR A PERIOD OF THREE YEARS AFTER THE NOTICE OF TERMINATION (NOT) IS SUBMITTED.

13.) SILT FENCE MAY BE SUBSTITUTED WITH SILT SOXX OR EROSION CONTROL MIX BERM.

14.) THE CONTRACTOR SHALL NOT COMPACT SOIL IN THE RAIN GARDEN AREAS.

LEGEND:

- 3/4" REBAR W/ID CAP(TO BE SET)
- IRON BOUND (FND)
- GRANITE BOUND (FND)
- STONE BOUND (FND)
- UTILITY POLE
- BENCHMARK
- TREE LINE, EXISTING OR PROPOSED
- PROPOSED STOCKADE FENCE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- SILT FENCE / EROSION MIX BERM
- FILTREXX 12" SILT SOXX

REVISION	DATE	DESCRIPTION
1	8/12/15	PLANNING BOARD SITE REVIEW APPLICATION

SEDIMENT AND EROSION CONTROL PLAN
FOR KENDALL AUTO AND TRUCK SALES
LAND OF DAYNA CUMMINGS
16 CALEF HIGHWAY
BARRINGTON, NH
TAX MAP 220, LOT 43

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335 SECOND CROWN POINT ROAD
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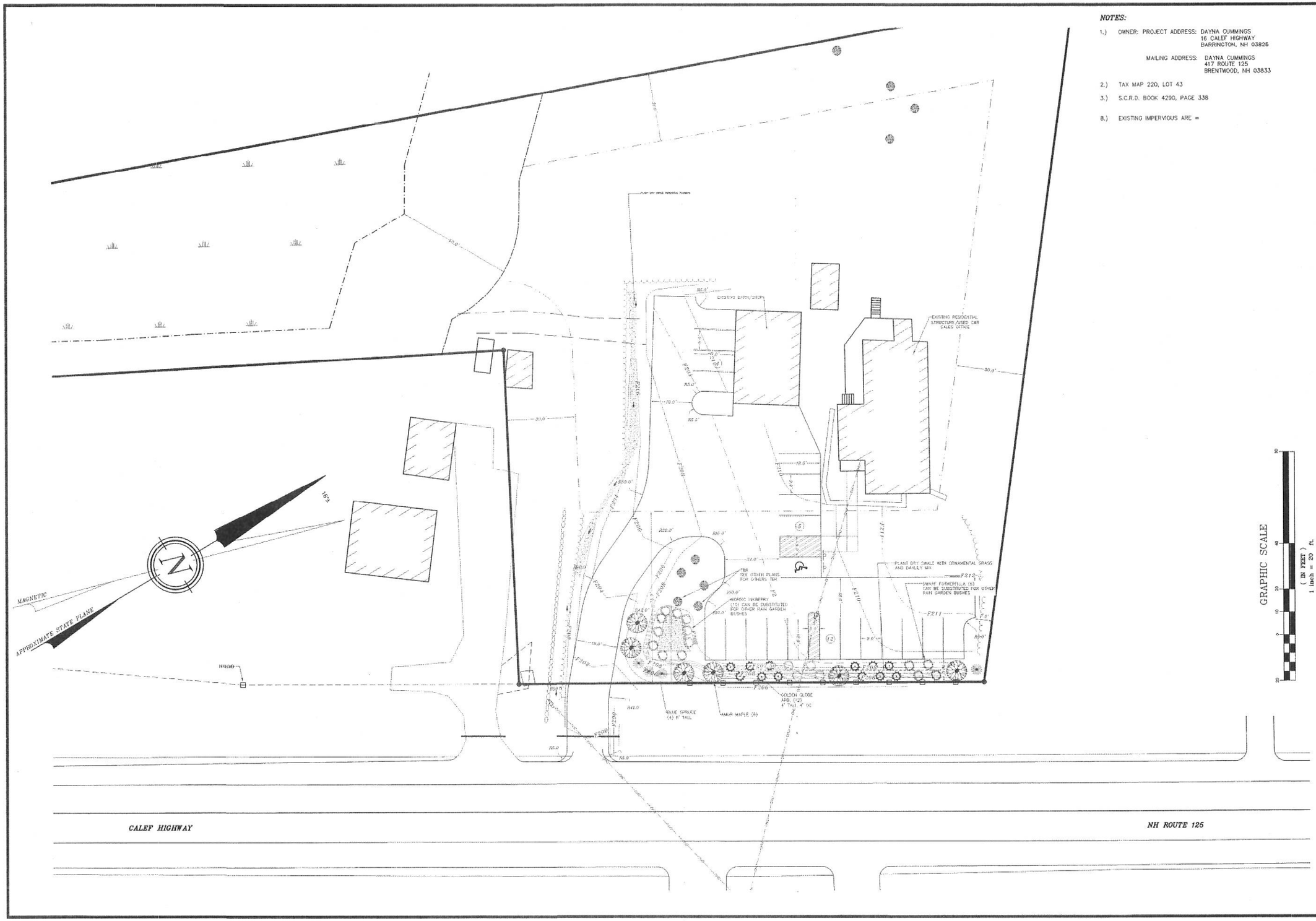
SHEET 5 OF 11



NOTES:

1.) OWNER: PROJECT ADDRESS: DAYNA CUMMINGS
16 CALEF HIGHWAY
BARRINGTON, NH 03826

MAILING ADDRESS: DAYNA CUMMINGS
417 ROUTE 125
BRENTWOOD, NH 03833

2.) TAX MAP 220, LOT 43

3.) S.C.R.D. BOOK 4290, PAGE 338

8.) EXISTING IMPERVIOUS ARE =

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LANDSCAPING PLAN
FOR KENDALL AUTO AND TRUCK SALES
LAND OF DAYNA CUMMINGS
16 CALEF HIGHWAY
BARRINGTON, NH
TAX MAP 220, LOT 43

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335 SECOND CROWN POINT ROAD
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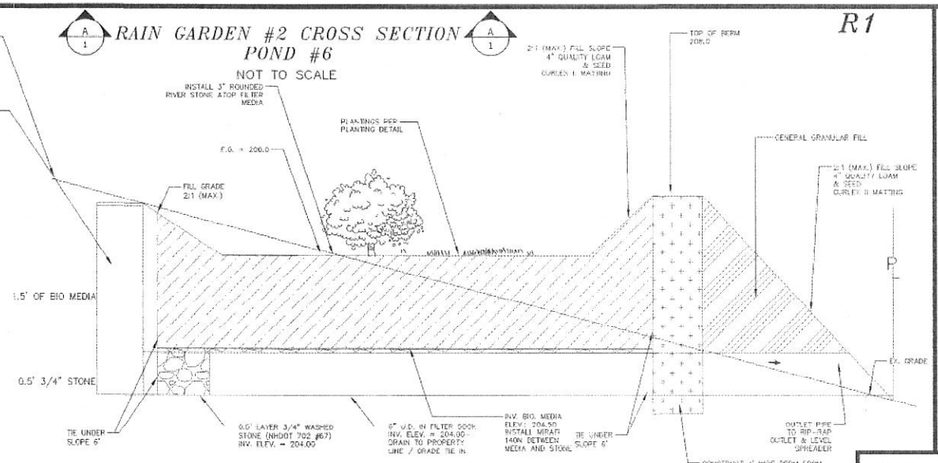
SHEET 6 OF 11

1.) THE RAIN GARDEN SUBGRADE IS NOT TO BE IMPACTED BY VEHICLE TRAFFIC. IF THIS INADVERTENTLY HAPPENS THE CONTRACTOR IS TO SCARIFY TO A DEPTH OF 6"

RAIN GARDEN #2 CROSS SECTION
POND #6
NOT TO SCALE

R1



NOTES

1. WHEN CONTRACTOR EXCAVATES RAIN GARDEN AREA TO SUBGRADE, DESIGN ENGINEER SHALL PERFORM SUBSURFACE EVALUATION PRIOR TO THE PLACEMENT OF ANY SELECT MATERIAL OR OTHER BACKFILL
2. SOIL FILTER MEDIA SHALL BE AS SHOWN ABOVE
3. GENERAL CONSTRUCTION NOTES ON THIS PLAN ALSO APPLY TO RAIN GARDEN #2

MAINTENANCE REQUIREMENTS

1. SYSTEMS SHOULD BE INSPECTED AT LEAST TWICE ANNUALLY, AND FOLLOWING ANY RAINFALL EXCEEDING 2.5 INCHES IN A 24-HOUR PERIOD, WITH MAINTENANCE OR REHABILITATION CONDUCTED AS A WARRANTED BY SUCH INSPECTION.
2. PRETREATMENT MEASURES SHOULD BE INSPECTED AT LEAST TWICE ANNUALLY, AND CLEANED OF ACCUMULATED SEDIMENT AS WARRANTED BY INSPECTION, BUT NO LESS THAN ONCE ANNUALLY.
3. AT LEAST ONCE ANNUALLY, SYSTEM SHOULD BE INSPECTED FOR DRAWDOWN TIME. IF BIORETENTION SYSTEM DOES NOT DRAIN WITHIN 72-HOURS FOLLOWING A RAINFALL EVENT, THEN A QUALIFIED PROFESSIONAL SHOULD ASSESS THE CONDITION OF THE FACILITY TO DETERMINE MEASURES REQUIRED TO RESTORE FILTRATION FUNCTION OR INFILTRATION FUNCTION (AS APPLICABLE), INCLUDING BUT NOT LIMITED TO REMOVAL OF ACCUMULATED SEDIMENTS OR RECONSTRUCTION OF THE FILTER MEDIA.
4. VEGETATION SHOULD BE INSPECTED AT LEAST ANNUALLY, AND MAINTAINED IN HEALTHY CONDITION, INCLUDING PRUNING, REMOVAL, AND REPLACEMENT OF DEAD OR DISEASED VEGETATION, AND REMOVAL OF INVASIVE SPECIES

DESIGN REFERENCES

1. UNH STORMWATER CENTER
2. NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 2, DECEMBER 2008 AS AMENDED

CRUSHED STONE BEDDING*

SIEVE SIZE	% PASSING BY WEIGHT
1"	100
3/4"	90 - 100
#4	0 - 10
#8	0 - 5

*EQUIVALENT TO STANDARD STONE SIZE #67 - SECTION 702 OF NHDOT STANDARD SPECIFICATIONS

LOW PERMEABILITY MATERIAL GRADATION

SIEVE SIZE	% PASSING BY WEIGHT
#4	95 - 100
#40	60 - 95
#100	40 - 60
#200	25 - 45

RAIN GARDEN DETAIL #2
POND #6

R3

R2

R5

R4

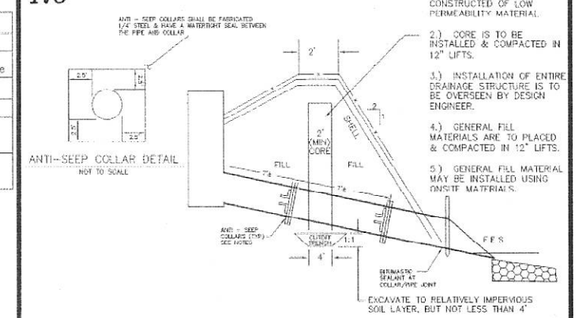
FILTER MEDIA MIXTURES

Component Material	Percent of Mixture by Volume	Gradation of material: Sieve No.	Gradation of material: Percent by Weight Passing Standard Sieve
Filter Media Option A			
ASTM C-33 concrete sand	50 to 55		
Loamy sand topsoil, with fines as indicated	20 to 30	200	15 to 25
Moderately fine shredded bark or wood fiber mulch, with fines as indicated	20 to 30	200	< 5

GRAPHIC SCALE

(IN FEET)
1 inch = 10 ft.

R6



ANTI-SEEP COLLAR DETAIL
NOT TO SCALE

1.) 2' CORE IS TO BE CONSTRUCTED OF LOW PERMEABILITY MATERIAL.

2.) CORE IS TO BE INSTALLED & COMPACTED IN 12" LIFTS.

3.) INSTALLATION OF ENTIRE DRAINAGE STRUCTURE IS TO BE OVERSEEN BY DESIGN ENGINEER.

4.) GENERAL FILL MATERIALS ARE TO PLACED & COMPACTED IN 12" LIFTS.

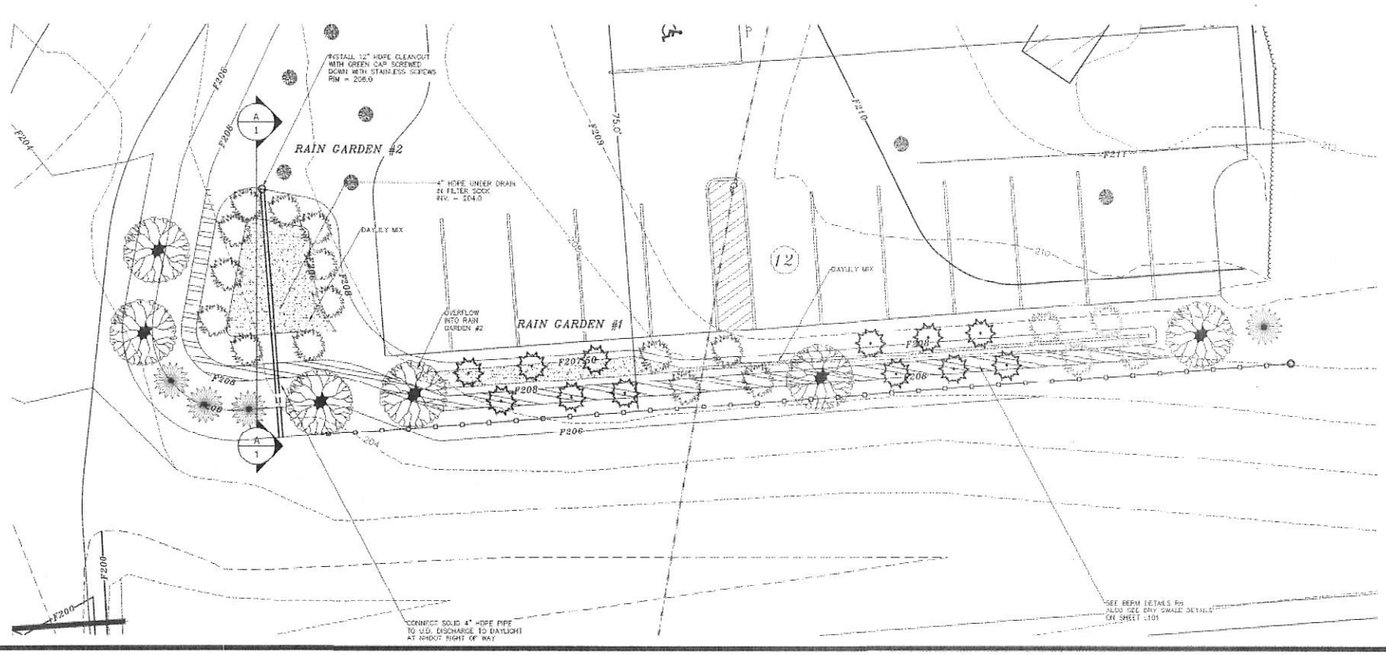
5.) GENERAL FILL MATERIAL MAY BE INSTALLED USING ONSITE MATERIALS.

TREES AND SHRUBS

Sym.	Qty.	Botanical Name / Common Name	Root	Size
C	6	Fothergilla gardenii / Dwarf Fothergilla	Cont.	2' Ht. or 3 Gal.
D	10	Ilex glabra 'Nordic' / Nordic Inkberry	Cont.	2' Ht. or 3 Gal.

PERENNIALS & GROUND COVERS

Sym.	Qty.	Botanical Name / Common Name	Root	Size	Remark
A1	100	Daylily Mix :			
		Hemerocallis 'Chicago Apache' / Daylily	Cont.	1 Gal.	24" OC
		Hemerocallis 'Big Time Happy' / Daylily	Cont.	1 Gal.	24" OC
		Hemerocallis 'Siloam Double Classic' / Daylily	Cont.	1 Gal.	24" OC



R-101

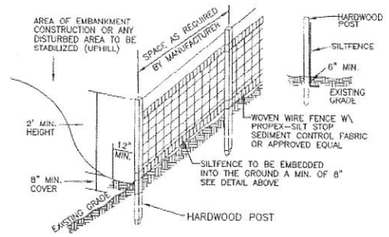
REVISION	DATE	DESCRIPTION

RAIN GARDEN DETAILS
FOR KENDALL AUTO AND TRUCK SALES
LAND OF DAYNA CUMMINGS
16 CALEF HIGHWAY
BARRINGTON, NH
TAX MAP 220, LOT 43

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (332-2863)

SCALE : AS NOTED
DATE : JULY 29, 2015
FILE NO. : DB 2015-058

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14243
LICENSED
PROFESSIONAL ENGINEER



SILT FENCE CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES AND FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP MID AND BOTTOM SECTIONS AND BE EMBEDDED INTO GROUND A MINIMUM OF 8" THE FENCE POSTS SHALL BE A MINIMUM 48" LONG, SPACED A
2. MAXIMUM 10' APART, AND DRIVEN A MINIMUM OF 16" INTO THE GROUND WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER,
3. THE ENDS OF THE FABRIC SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT
4. REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE AND PROPERLY DISPOSED OF PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE
5. FOR SEDIMENT STORAGE SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND
6. THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER. THE AREA DISTURBED BY THE REMOVAL SHALL BE SMOOTHED AND RE-VEGETATED

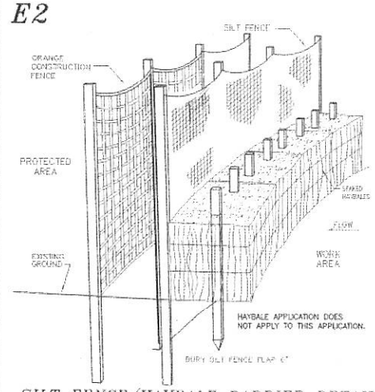
SILT FENCE MAINTENANCE

1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME
2. INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT.
3. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE
4. FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

E1 SILT FENCE DETAIL

N.T.S.

E2

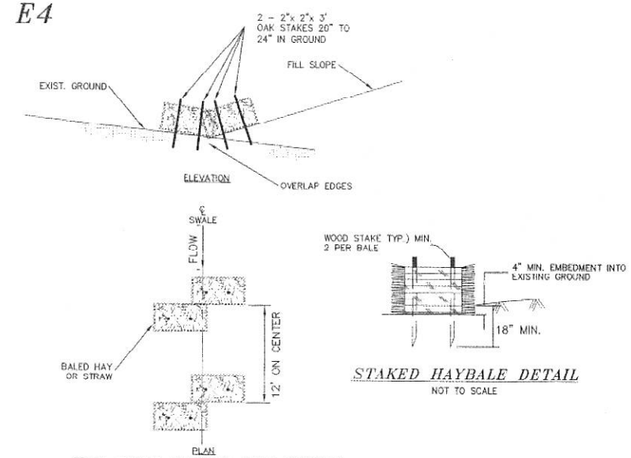


SILT FENCE/HAYBALE BARRIER DETAIL

THIS METHOD TO BE USED ALONG THE REAR OF THE PROPERTY

E3

E4



HAY BALE CHECK DAM DETAIL

(NOT TO SCALE)

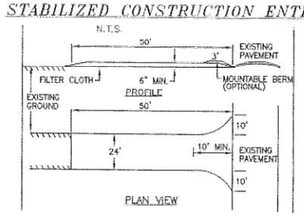
STAKED HAYBALE DETAIL

NOT TO SCALE

REVISION	DATE	DESCRIPTION
1	8/12/15	PLANNING BOARD SITE REVIEW APPLICATION

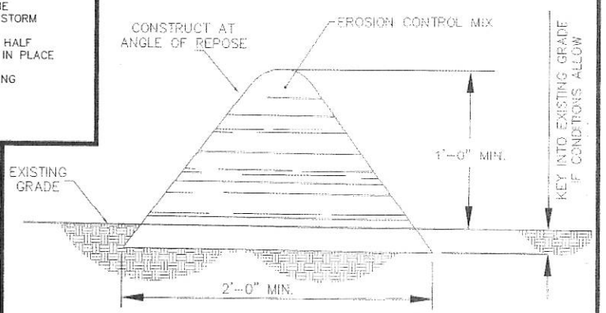
E5 STABILIZED CONSTRUCTION ENTRANCE

N.T.S.



1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS ON TO FEET, WHICH EVER IS GREATER.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT.
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.

E6 EROSION CONTROL MIX DERM



EROSION CONTROL MIX BERMS SHALL BE USED ONLY AS FOLLOWS:

(A) BERMS SHALL BE USED IN AREAS WHERE EROSION WILL OCCUR ONLY IN THE FORM OF SHEET EROSION AND THERE IS NO CONCENTRATION OF WATER IN A CHANNEL OR DRAINAGE WAY ABOVE THE BERM.
(B) THE BERMS SHALL BE INSTALLED FOLLOWING THE CONTOUR OF THE LAND AS CLOSELY AS POSSIBLE.
(C) THE BERMS SHALL BE INSTALLED ON SLOPES LESS THAN 5%.
(D) SUBJECT TO (E), BELOW, THE MIX SHALL HAVE AN ORGANIC PORTION BETWEEN 80 AND 100%, DRY WEIGHT BASIS, AND BE FIBROUS AND ELONGATED SUCH AS FROM SHREDDED BARK, STUMP GRINDINGS, COMPOSED BARK, OR EQUIVALENT MANUFACTURED PRODUCTS.
(E) WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS SHALL NOT BE USED AS ORGANIC MATERIAL.
(F) THE MIX SHALL NOT CONTAIN SILTS, CLAY, OR FINE SANDS.
(G) THE MIX SHALL HAVE A PARTICLE SIZE BY WEIGHT OF 70 TO 85% PASSING A 6-INCH SCREEN AND A MAXIMUM OF 85% PASSING THE 0.75-INCH SCREEN.
(H) THE MIX PH SHALL BE BETWEEN 5.0 AND 8.0.
(I) THE BERM SHALL BE AT LEAST 12 INCHES HIGH AND AT LEAST 2 FEET WIDE

E7

E8 TEMPORARY EROSION CONTROL MEASURES

1. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME
2. EROSION, SEDIMENT AND RETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED, DIRECTED BY THE ENGINEER
3. ALL DISTURBED AREAS SHALL BE RETURNED TO ORIGINAL GRADES AND ELEVATIONS. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 4" OF LOAM AND SEEDED WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA (SEE SEED SPECIFICATIONS E102)

   3a. ALL DISTURBED AREAS WILL BE RESTABILIZED WITHIN 60 DAYS. AT ANY ONE TIME, NO MORE THAN 5 ACRES, (217,800 Sq. Ft.) WILL BE DISTURBED
4. SILT FENCES AND STRAW OR HAY BALES BARRIERS SHALL BE INSPECTED PERIODICALLY AND AFTER EVERY RAIN DURING THE LIFE OF THE PROJECT. ALL DAMAGED AREAS SHALL BE REPAIRED, SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED OF.
5. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED
6. PER THE EPA REQUIREMENTS THERE WILL BE A LOG OF THE EROSION CONTROL INSPECTIONS EVERY 7-14 DAYS PLEASE FIND SWPPP PREPARED BY BSAE (AFTER LOCAL APPROVAL)
7. DITCHES, SWALES, AND BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
8. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER 0.5" OR GREATER RAIN EVENT

SEDIMENT AND EROSION CONTROL DETAILS
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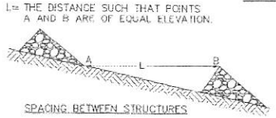
LAND OF DAYNA CUMMINGS
16 CALEF HIGHWAY
BARRINGTON, NH
TAX MAP 220, LOT 43

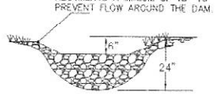
E9

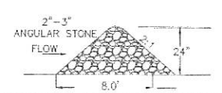
STONE CHECK DAM



SPACING BETWEEN STRUCTURES

NOTE: KEY STONE INTO CHANNEL BANKS AND EXTEND IT BEYOND THE ABUTMENTS A MINIMUM OF 18" TO PREVENT FLOW AROUND THE DAM.





STONE GRADE STABILIZATION STRUCTURE

1.) CHECK DAMS SHOULD BE INSTALLED BEFORE RUNOFF IS DIRECTED TO THE SWALE OR DRAINAGE DITCH

2.) THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE DAM SHOULD BE LESS THEN ONE ACRE.

3.) THE MAXIMUM HEIGHT OF THE DAM SHOULD BE TWO FEET.

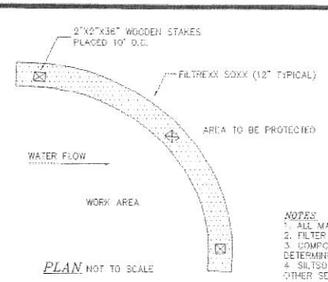
4.) THE CENTER OF THE DAM SHOULD BE AT LEAST SIX INCHES LOWER THAN THE OUTER EDGES.

5.) THE MAXIMUM SPACING IS AS SHOWN ON THE PROJECT SITE PLANS.

6.) CHECK DAMS WILL NOT BE USED IN A FLOWING STREAM.

7.) TEMPORARY CHECK DAMS WILL BE REMOVED ONCE THE SWALE OR DITCH IS DETERMINED STABLE.

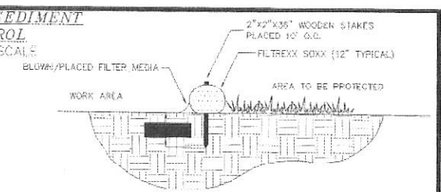
E10



PLAN NOT TO SCALE

FILTREXX SEDIMENT CONTROL

NOT TO SCALE



SECTION NOT TO SCALE

NOTES:
1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
2. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.
4. SILTSOXX MAY BE USED IN PLACE OF SILT FENCE OR OTHER SEDIMENT BARRIERS.
5. SILTSOXX COMPOST/SOIL/ROCK/SEED FILL MATERIAL SHALL BE ADJUSTED AS NECESSARY TO MEET THE REQUIREMENTS OF THE SPECIFIC APPLICATION.
6. FILTREXX SOXX IS A REGISTERED TRADEMARK OF FILTREXX INTERNATIONAL, LLC.

Filtrexx International, LLC
35481 Grafton Eastown Rd | Grafton, OH 44044
440-926-2603 | fax: 440-926-4021
WWW.FILTREXX.COM

E11

E-101

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (332-2863)

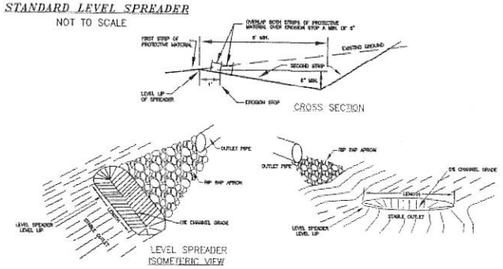
SCALE : NOT TO SCALE
DATE : JULY 29, 2015
FILE NO. : DB 2015 - 058

STATE OF NEW HAMPSHIRE — KENNETH A. BERRY No. 14243 — LICENSED PROFESSIONAL ENGINEER

E12

STANDARD LEVEL SPREADER

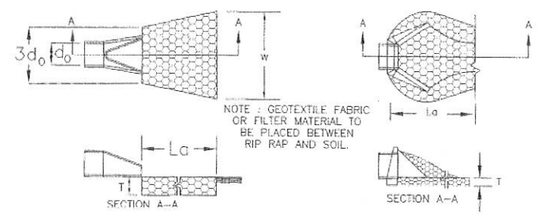
NOT TO SCALE



1. CONSTRUCT THE LEVEL SPREADER LIP ON A ZERO PERCENT GRADE TO INSURE UNIFORM SPREADING OF RUNOFF.
2. LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL AND NOT ON FILL.
3. AN EROSION STOP SHALL BE PLACED VERTICALLY A MINIMUM OF SIX INCHES DEEP IN A SLIT TRENCH ONE FOOT BACK OF THE LEVEL LIP AND PARALLEL TO THE LIP. THE EROSION STOP SHALL EXTEND THE ENTIRE LENGTH OF THE LEVEL LIP.
4. THE ENTIRE LEVEL LIP AREA SHALL BE PROTECTED BY PLACING TWO STRIPS OF JUTE OR EXCELSIOR MATTING ALONG THE LIP. EACH STRIP SHALL OVERLAP THE EROSION STOP BY AT LEAST SIX INCHES.
5. THE ENTRANCE CHANNEL TO THE LEVEL SPREADER SHALL NOT EXCEED A 1 PERCENT GRADE FOR AT LEAST 50 FEET BEFORE ENTERING INTO THE SPREADER.
6. THE FLOW FROM THE LEVEL SPREADER SHALL OUTLET ONTO STABILIZED AREAS. WATER SHOULD NOT RE-CONCENTRATE IMMEDIATELY BELOW THE SPREADER.
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PERFORMED.
8. MAINTENANCE: THE LEVEL SPREADER SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM TO DETERMINE IF THE LIP HAS BEEN DAMAGED AND THE DESIGN CONDITIONS HAVE NOT CHANGED. ANY DETRIMENTAL SEDIMENT ACCUMULATION SHOULD BE REMOVED. IF RILLING HAS TAKEN PLACE ON THE LIP, THEN THE DAMAGE SHOULD BE REPAIRED AND REVEGETATED. THE VEGETATION SHOULD BE MOWED OCCASIONALLY TO CONTROL WEEDS AND THE ENCROACHMENT OF WOODY VEGETATION. CLIPPINGS SHOULD BE REMOVED AND DISPOSED OF OUTSIDE THE SPREADER AND AWAY FROM OUTLET AREA. FERTILIZATION SHOULD BE DONE AS NECESSARY TO KEEP THE VEGETATION HEALTHY AND DENSE.

E13

PIPE OUTLET PROTECTION



PIPE OUTLET TO FLAT AREA WITH NO DEFINED CHANNEL

PIPE OUTLET TO WELL-DEFINED CHANNEL

PIPE OUTLET PROTECTION CONSTRUCTION SPECIFICATIONS

1. THE SUB GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIP RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS SPECIFIED GRADATION.
2. THE ROCK OR GRAVEL USED FOR FILTER OF RIP RAP SHALL CONFORM TO NHDOT SECTION 583.
3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP RAP DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
4. STONE FOR THE RIP RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.

E14

TABLE 7-24--RECOMMENDED RIP RAP GRADATION RANGES

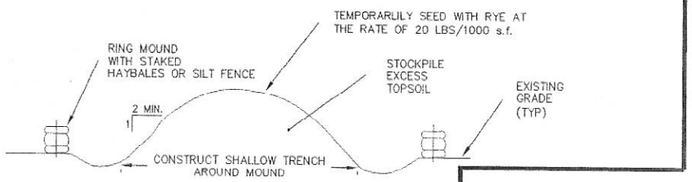
d50 SIZE= 0.5 FEET 6 INCHES		
% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE	SIZE OF STONE (INCHES) FROM	TO
100%	9	12
85%	8	11
50%	6	9
15%	2	3

TABLE 7-24--RECOMMENDED RIP RAP GRADATION RANGES

d50 SIZE= 1.0 FEET 12 INCHES		
% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE	SIZE OF STONE (INCHES) FROM	TO
100%	18	24
85%	16	22
50%	12	18
15%	4	6

REVISION	DATE	DESCRIPTION
1	8/12/15	PLANNING BOARD SITE REVIEW APPLICATION

E15



TOPSOIL STOCKPILE MOUND

NOT TO SCALE

E16

NOTE: Temporary seed mix for stabilization of turf shall be winter rye or oats at a rate of 2.5 lbs. per 1000 s.f. and shall be placed prior to OCT. 15, if permanent seeding not yet complete.

NOTE: THIS PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

SEEDING GUIDE

USE	SEEDING MIXTURE 1/	EROUGHLY	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, ROADSIDE AND DEFICIAL AREAS	A	FAIR	GOOD	GOOD	FAIR
	B	POOR	GOOD	FAIR	FAIR
	C	POOR	GOOD	EXCELLENT	GOOD
	E	FAIR	FAIR	GOOD	EXCELLENT
	F	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENCY SPILWAYS, AND OTHER CHANNELS WITH FLOWING WATER	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	EXCELLENT	EXCELLENT	FAIR
	G	GOOD	EXCELLENT	EXCELLENT	FAIR
LIGHTLY USED PARKING LOTS, OGD AREAS, UNUSED LAWNS, AND LOW INTENSITY USE MAINTENANCE MIXES	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	FAIR	POOR
	C	EXCELLENT	EXCELLENT	EXCELLENT	FAIR
	D	FAIR	GOOD	GOOD	EXCELLENT
PLAY AREAS AND ATHLETIC FIELDS, COOTSOIL IS ESSENTIAL FOR GOOD TURF	E	FAIR	EXCELLENT	EXCELLENT	2/
	G	FAIR	EXCELLENT	EXCELLENT	2/

GRAVEL PIT, SEE NH-ENV-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS.

1/ REFER TO SEEDING MIXTURES AND RATES IN TABLE 7-25.
2/ POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREA AND ATHLETIC FIELDS.

* RECOMMENDED

SEEDING RATES

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.
A. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
REDTOP	2	0.05
TOTAL	42	0.95
B. TALL FESCUE	15	0.35
CREEPING RED FESCUE	10	0.25
CROWN VETCH OR	15	0.35
FLAT PEA	30	0.75
TOTAL	40 OR 55	0.95 OR 1.35
C. TALL FESCUE	24	0.55
CREEPING RED FESCUE	24	0.55
BIRDS FOOT TREFOIL	2 (REMOVED)	0.05 (REMOVED)
TOTAL	48	1.15
D. TALL FESCUE	20	0.45
FLAT PEA	30	0.75
TOTAL	50	1.20
E. CREEPING RED FESCUE 1/	50	1.15
KENTUCKY BLUEGRASS 1/	50	1.15
TOTAL	100	2.30
F. TALL FESCUE 1	150	3.60

CONSERVATION MIX	POUNDS PER ACRE	POUNDS PER 1,000 S.F.
RED FESCUE (35%)	75	1.75
TALL FESCUE (25%)	55	1.25
ANNUAL RYEGRASS (12%)	33	0.75
PERENNIAL RYEGRASS (10%)	26	0.60
KENTUCKY BLUEGRASS (10%)	22	0.50
WHITE CLOVER (3%)	7	0.15

E17

WINTER STABILIZATION NOTES

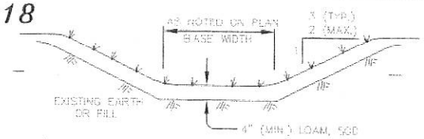
1. ALL DISTURBED AREAS THAT DO NOT HAVE AT LEAST 85% VEGETATIVE COVERAGE PRIOR TO OCTOBER 15TH, SHALL BE STABILIZED BY APPLYING MULCH AT A RATE OF 3-4 TONS PER ACRE. ALL SIDE SLOPES, STEEPER THAN 4:1, THAT ARE NOT DIRECTED TO SWALES OR DETENTION BASINS, SHALL BE LINED WITH BIODEGRADABLE/PHOTODEGRADABLE "JUTE MATTING" (EXCELSIOR'S CURLEX II OR EQUAL). ALL OTHER SLOPES SHALL BE MULCHED AND TACKED AT A RATE OF 3-4 TONS PER ACRE. THE APPLICATION OF MULCH AND/OR JUTE MATTING SHALL NOT OCCUR OVER EXISTING SNOW COVER. IF THE SITE IS ACTIVE AFTER NOVEMBER 15TH, ANY SNOW THAT ACCUMULATES ON DISTURBED AREAS SHALL BE REMOVED. PRIOR TO SPRING THAW ALL AREAS WILL BE STABILIZED, AS DIRECTED ABOVE.

2. ALL SWALES THAT DO NOT HAVE FULLY ESTABLISHED VEGETATION SHALL BE EITHER LINED WITH TEMPORARY JUTE MATTING OR TEMPORARY STONE CHECK DAMS (APPROPRIATELY SPACED). STONE CHECK DAMS WILL BE MAINTAINED THROUGHOUT THE WINTER MONTHS. IF THE SWALES ARE TO BE MATTED WITH PERMANENT LINERS OR RIPRAP WITH ENGINEERING FABRIC, THIS SHALL BE COMPLETED PRIOR TO WINTER SHUTDOWN OR AS SOON AS THEY ARE PROPERLY GRADED AND SHAPED.

3. PRIOR TO NOV. 15TH ALL ROADWAY AND PARKING AREAS SHALL BE BROUGHT UP TO AND THROUGH THE BANK RUN GRAVEL APPLICATION. IF "THESE AREAS" ELEVATIONS ARE PROPOSED TO REMAIN BELOW THE PROPOSED SUBGRADE ELEVATION, THE SUBGRADE MATERIAL SHALL BE ROUGHLY GROOMED AND A 3" LAYER OF CRUSHED GRAVEL SHALL BE PLACED AND COMPACTED. THIS WILL ALLOW THE SUBGRADE TO SHED RUNOFF AND WILL REDUCE ROADWAY EROSION. THIS CRUSHED GRAVEL DOES NOT HAVE TO CONFORM TO NH DOT 304.3, BUT SHALL HAVE BETWEEN 15-25% PASSING THE #200 SIEVE AND THE LARGEST STONE SIZE SHALL BE 2". IF THE SITE IS ACTIVE AFTER NOVEMBER 15TH, ANY ACCUMULATED SNOW SHALL BE REMOVED FROM ALL ROADWAY AND PARKING AREAS.

4. AFTER OCTOBER 15TH, THE END OF NEW HAMPSHIRE'S AVERAGE GROWING SEASON, NO ADDITIONAL LOAM SHALL BE SPREAD ON SIDE SLOPES AND SWALES. THE STOCKPILES THAT WILL BE LEFT UNDISTURBED UNTIL SPRING SHALL BE SEEDED BY THIS DATE. AFTER OCTOBER 15TH, ANY NEW OR DISTURBED PILES SHALL BE MULCHED AT A RATE OF 3-4 TONS PER ACRE. ALL STOCKPILES THAT WILL REMAIN THROUGHOUT THE WINTER SHALL BE SURROUNDED WITH SILT FENCING.

E18



GRASS TREATMENT SWALE

NOT TO SCALE

INSPECT ANNUALLY FOR EROSION, SEDIMENT ACCUMULATIONS, VEGETATION LOSS, & INVASIVE SPECIES. REPAIR AS NECESSARY.

MOW GRASS ANNUALLY TO A DEPTH OF 4"

INSTALL STABILIZATION MATTING DURING CONSTRUCTION

SEEDING SPECIFICATIONS

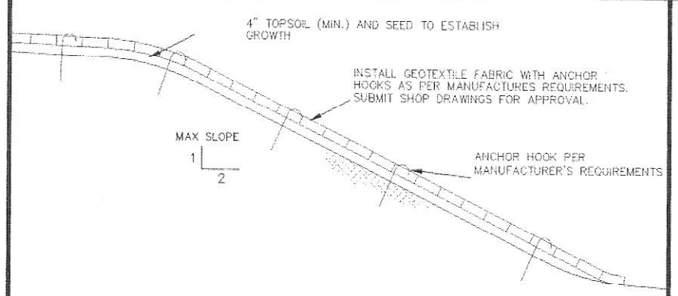
1. GRADING AND SHAPING
   A. SLOPES SHALL NOT BE STEEPER THAN 2:1;3:1 SLOPES OR FLATTER ARE PREFERRED. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.
2. SEEDBED PREPARATION
   A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
   B. STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEED BED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.
3. ESTABLISHING A STAND
   A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:
   AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100LBS. PER 1,000 SQ.FT.
   NITROGEN(N), 50LBS. PER ACRE OR 1.1LBS. PER 1,000 SQ.FT.
   PHOSPHATE(P205), 100LBS. PER ACRE OR 2.2LBS. PER 1,000 SQ.FT.
   POTASH(K20), 100LBS. PER ACRE OR 2.2LBS. PER 1,000 SQ.FT.
   (NOTE: THIS IS THE EQUIVALENT OF 500LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000LBS. PER ACRE OF 5-10-10.)
   B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH .25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.
   C. REFER TO TABLE(G-E1 THIS SHEET) FOR APPROPRIATE SEED MIXTURES AND TABLE(H-E1 THIS SHEET) FOR RATES OF SEEDING. ALL LEGUMES (CROWNVETCH, BIRDSFOOT TREFOIL, AND FLATPEA) MUST BE INOCULATED WITH THEIR SPECIFIC INOCULANT.
   D. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.
4. MULCH
   A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
   B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE FOR MULCHING. HAY OR STRAW MULCH SHALL BE PLACED AT A RATE OF 90LBS PER 1000 S.F.
5. MAINTENANCE TO ESTABLISH A STAND
   A. PLANTED AREA SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH
   B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIAL STAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.
   C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.

E22

DEFINITION OF STABLE:

1. WHEN A BASE COURSE GRAVEL HAS BEEN INSTALLED IN AN AREA TO BE PAVED
2. WHEN A MINIMUM OF 85% VEGITATIVE GROWTH OCCURS
3. WHEN A MINIMUM OF 3" OF NON-EROSIVE MATERIAL, SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED.
4. WHEN PROPER EROSION CONTROL BLANKETS, SUCH AS CURLEX II, C350 OR OTHER DOT APPROVED MATTING, HAS BEEN INSTALLED PROPERLY
5. HAY MULCH OR OTHER APPROVED METHODS SHALL BE USED TO CONTROL EROSION OF NEWLY GRADED AREAS. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED WITHIN 72 HOURS AFTER THEIR CONSTRUCTION.

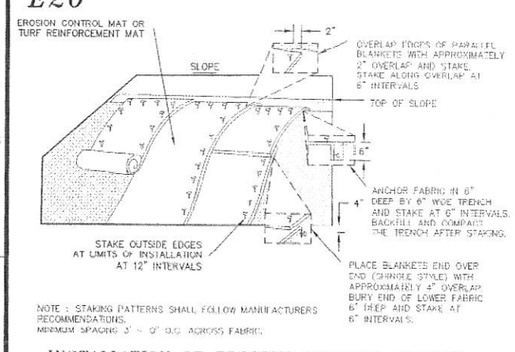
E19



SLOPE STABILIZATION DETAIL

NOT TO SCALE

E20



NOTE : STAKING PATTERNS SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS.
MINIMUM SPACING 3' - 0" O.C. ACROSS FABRIC.

INSTALLATION OF EROSION CONTROL FABRICS

NOT TO SCALE

E21

CONSTRUCTION SEQUENCE:

1.) CUT AND REMOVE TREES IN CONSTRUCTION AREA ONLY AS REQUIRED
2.) CONSTRUCT AND/OR INSTALL TEMPORARY AND PERMANENT SEDIMENT EROSION AND DETENTION CONTROL FACILITIES AS
3.) EROSION, SEDIMENT AND DETENTION CONTROL FACILITY SHALL BE INSTALLED & STABILIZED PRIOR TO ANY EARTH MOVING OPERATION & OR DIRECTING RUNOFF TO THEM.
4.) CLEAR, CUT AND DISPOSE OF DEBRIS IN APPROVED FACILITY
5.) CONSTRUCT TEMPORARY CULVERTS AS REQUIRED, OR DIRECTED
6.) CONSTRUCT ROADWAYS FOR ACCESS TO DESIRED CONSTRUCTION AREAS. ALL ROADS SHALL BE STABILIZED IMMEDIATELY
7.) INSTALL PIPE AND CONSTRUCTION ASSOCIATED APPURTENANCES AS REQUIRED OR DIRECTED. INSTALL RAIN GARDENS. ALL DISTURBED AREAS SHALL STABILIZED IMMEDIATELY AFTER GRADING.
8.) BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES AND DISTURBED AREAS SHALL BE SEEDED OR MULCHED AS REQUIRED, OR DIRECTED. NO AREA IS ALLOWED TO BE DISTURBED FOR A LENGTH OF TIME THAT EXCEEDS 60 DAYS BEFORE BEING STABILIZED, DAILY, OR AS REQUIRED. ALL ROADWAYS AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADES. ALL CUT AND FILL SLOPES SHALL BEW STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADES.
9.) CONSTRUCT TEMPORARY BERMS, DRAINS DITCHES, SILT FENCES, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED.
10.) INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION
11.) COMPLETE PERMANENT SEEDING AND LANDSCAPING.
12.) REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE ESTABLISHED THEMSELVES AND SITE IMPROVEMENTS ARE COMPLETE.
13.) SMOOTH AND REVEGETATE ALL DISTURBED AREAS
14.) FINISH PAVING ALL ROADWAYS

E-102

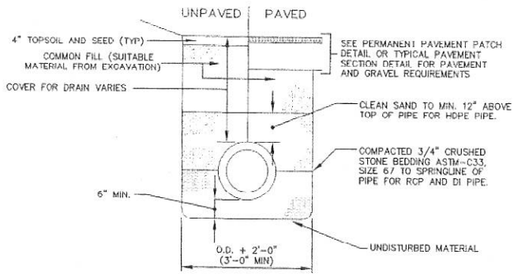
SEDIMENT AND EROSION CONTROL DETAILS
FOR KENDALL AUTO AND TRUCK SALES
LAND OF DAYNA CUMMINGS
16 CALEF HIGHWAY
BARRINGTON, NH
TAX MAP 220, LOT 43

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (332-2863)

SCALE : NOT TO SCALE
DATE : JULY 29, 2015
FILE NO. : DB 2015 - 058

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14243
LICENSED
PROFESSIONAL ENGINEER

C1



NOTE:

PLASTIC DRAIN PIPE (HDPE) SHALL BE ADS N-12 (CORRUGATED EXTERIOR/SMOOTH INTERIOR) OR EQUAL MEETING AASHTO M-252 AND H-20 LOADING.

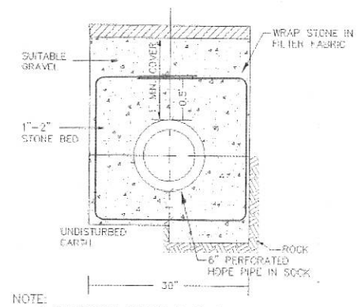
DI DRAIN PIPE SHALL BE CL. 50.

RC DRAIN PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.

TYPICAL DRAIN AND SEWER PIPE TRENCH

NOT TO SCALE

C2

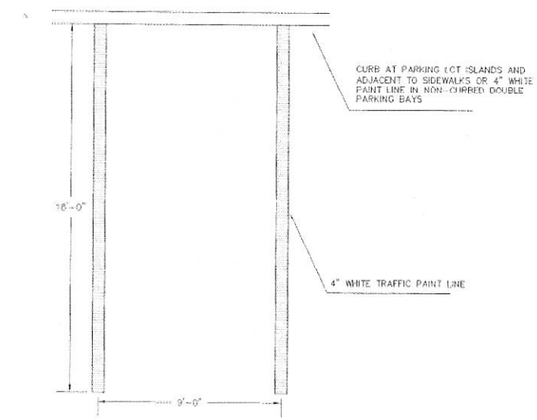


NOTE:

1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.
2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO SUBDIVISION SPECS.

UNDERDRAIN TRENCH DETAIL

C3



NOTES:

1.) PROVIDE TWO COATS OF PAINT ON ALL PARKING LINES.

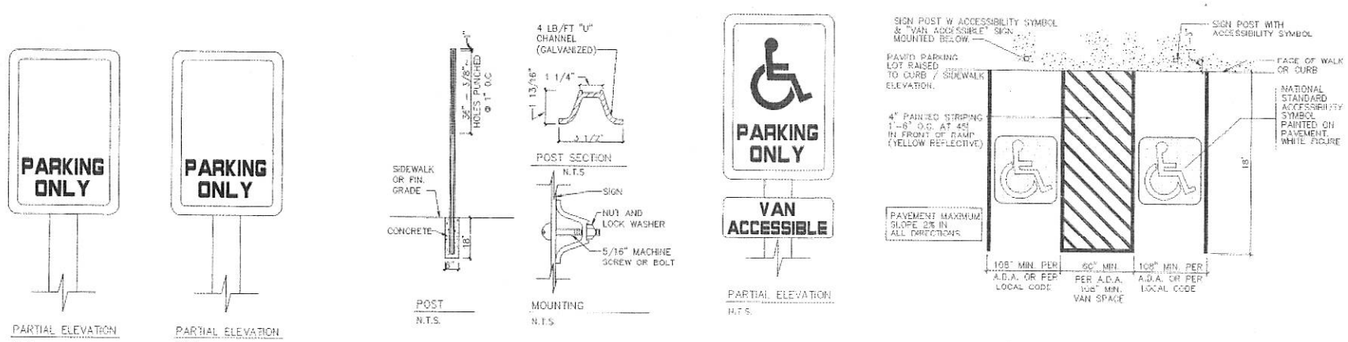
2.) SEE PROPOSED SITE PLANS FOR LOCATION OF PARKING SPACES.

3.) PAINTED SPACES ONLY WHERE MARKED ON SITE PLAN

PARKING SPACE DETAIL

NOT TO SCALE

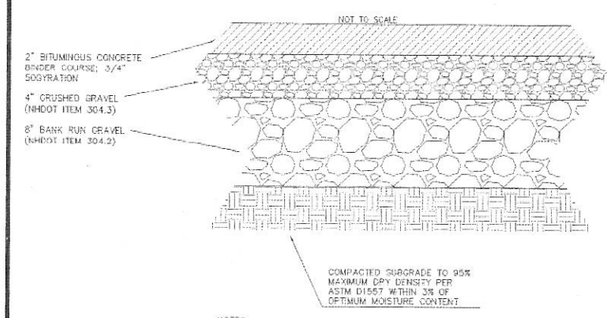
C4



PARKING STALL SIGNAGE FOR THE PHYSICALLY CHALLENGED

NOT TO SCALE

C5



NOTES:

1.) BITUMINOUS MATERIALS SHALL CONFORM TO NHDOT SPECIFICATION SUBSECTION 401.3.6.

2.) PAVEMENT BASE COURSE AGGREGATE SHALL CONFORM TO NHDOT SPECIFICATION SECTION 304, ITEM 304.3 AND COMPACTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY ASSUMING THE EXISTING MATERIALS ARE NOT OF HIGH QUALITY AS DETERMINED BY THE OWNER.

3.) PAVEMENT SUBBASE COURSE AGGREGATE AND AGGREGATE FOR SUBGRADE REPAIR AREAS SHALL BE SUITABLE FOR USE AS STRUCTURAL FILL AND BE PROOFROLLED AND COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY.

BITUMINOUS CONCRETE PAVEMENT SECTION

NOT TO SCALE

C-101

REVISION	DATE	DESCRIPTION
1	8/12/15	PLANNING BOARD SITE REVIEW APPLICATION

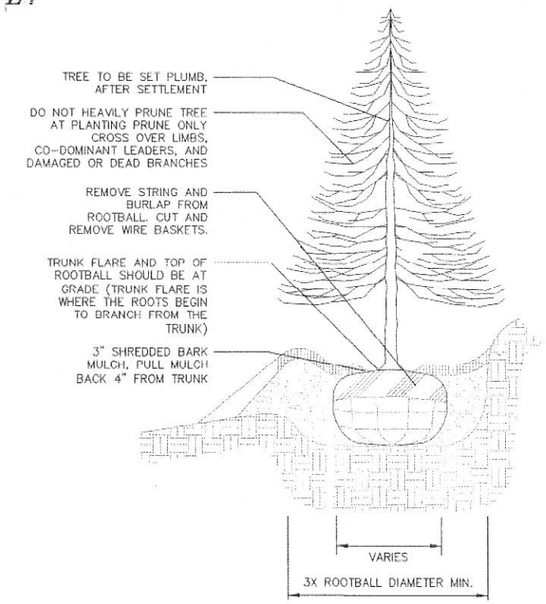
CONSTRUCTION DETAILS
FOR KENDALL AUTO AND TRUCK SALES
LAND OF DAYNA CUMMINGS
16 CALEF HIGHWAY
BARRINGTON, NH
TAX MAP 220, LOT 43

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (332-2863)

SCALE : NOT TO SCALE
DATE : JULY 29, 2015
FILE NO. : DB 2015 - 058

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14243
LICENSED
PROFESSIONAL ENGINEER

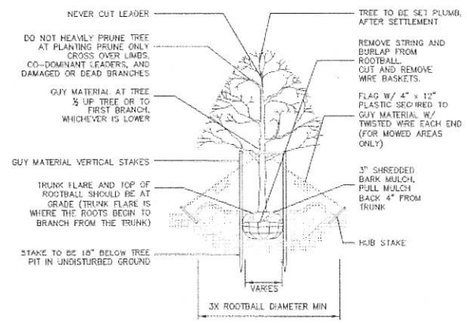
L1



NOTES:
1. DO NOT STAKE EVERGREEN TREES.
2. LOAM FOR BACKFILLING SHALL BE AMENDED AS REQUIRED BY LANDSCAPE ARCHITECT.
3. TAMP BACKFILL SOIL AROUND ROOTBALL FIRMLY TO MINIMIZE ROOTBALL SHIFT.

EVERGREEN TREE PLANTING

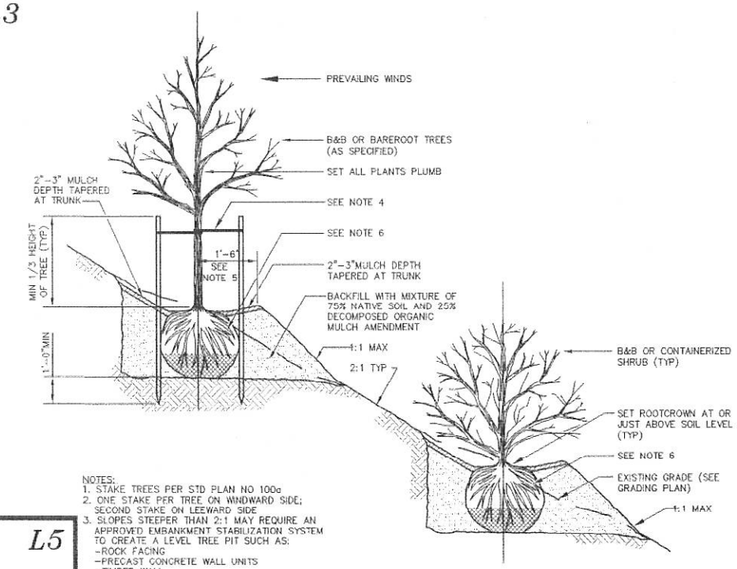
L2



NOTES:
1. GUYING AND STAKING TO BE DETERMINED IN THE FIELD BY THE LANDSCAPE ARCHITECT. LOCAL FIELD CONDITIONS AS WELL AS PLANT CHARACTERISTICS WILL DETERMINE THE NECESSITY OF GUYING AND STAKING.
2. TYPICALLY ONLY TREES WITH A 3" OR GREATER CALIPER NEED TO BE STAKED. TREES WITH LESS THAN A 3" CALIPER NEED TO BE STAKED ONLY AS REQUIRED BY LANDSCAPE ARCHITECT.
3. ONLY WRAP TREE TRUNKS AS REQUIRED BY LANDSCAPE ARCHITECT.
4. TREE SHALL BE SET PLUMB, AFTER SETTLEMENT.
5. LOAM FOR BACKFILLING SHALL BE AMENDED AS REQUIRED BY LANDSCAPE ARCHITECT.
6. CITY TREES PLANTED ON PRIVATE PROPERTY, ADJACENT TO A PUBLIC RIGHT-OF-WAY, NEED TO BE PLANTED A MINIMUM OF 5 FEET FROM THE EDGE OF THE CITY SIDEWALK.

DECIDUOUS TREE PLANTING

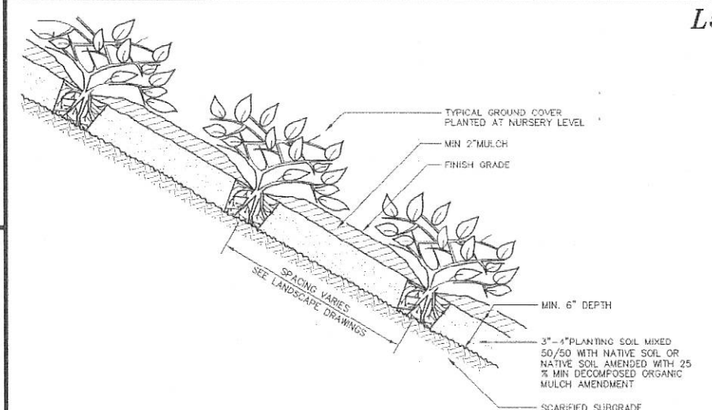
L3



NOTES:
1. STAKE TREES PER STD PLAN NO 100a
2. ONE STAKE PER TREE ON WINDWARD SIDE; SECOND STAKE ON LEEWARD SIDE.
3. SLOPES STEEPER THAN 2:1 MAY REQUIRE AN APPROVED EMBANKMENT STABILIZATION SYSTEM TO CREATE A LEVEL TREE PIT SUCH AS:
   - ROCK FACING
   - PRECAST CONCRETE WALL UNITS
   - TIMBER WALL
   - MANUFACTURED SLOPE RETENTION UNITS
4. CHAINLOCK TREE TIE. LOOP EACH TIE AROUND TREE LOOSELY TO PROVIDE 1" SLACK FOR DIAMETER GROWTH.
5. SHAPE SOIL TO PROVIDE 3' DIAMETER OR ROOTBALL DIAMETER, WHICHEVER IS GREATER, WATERING RING.
6. REMOVE ALL WIRE AND STRING. REMOVE TOP 2/3 OF BURLAP.

TREE PLANTING ON SLOPES

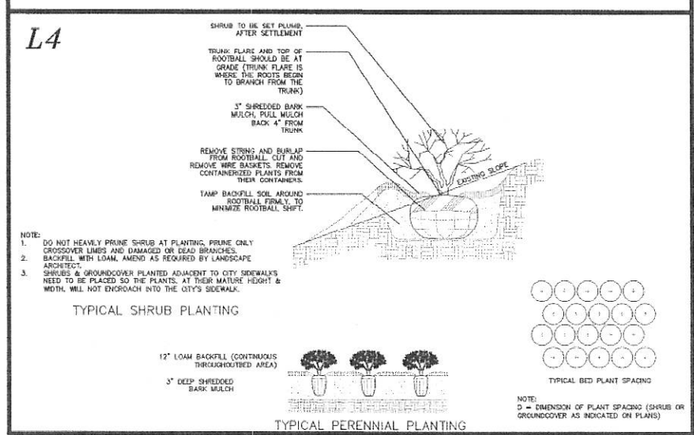
L5



TYPICAL SLOPE GROUND COVER PLANTINGS

L11

L4



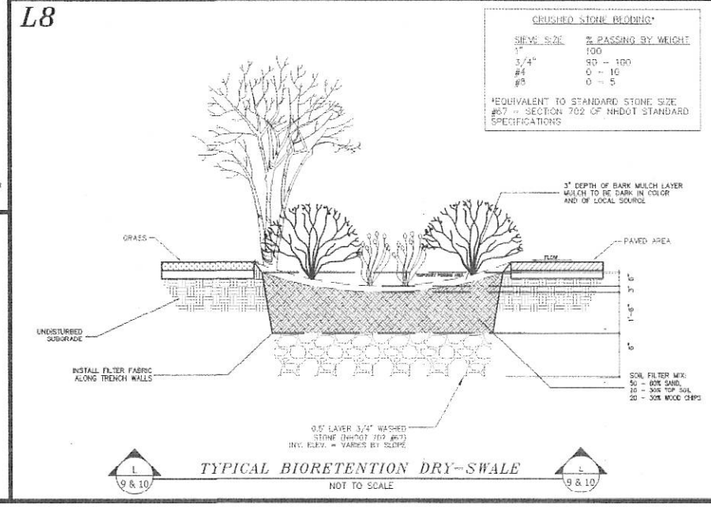
NOTE:
1. DO NOT HEAVILY PRUNE SHRUB AT PLANTING, PRUNE ONLY CROSSOVER LIMBS AND DAMAGED OR DEAD BRANCHES.
2. BACKFILL WITH LOAM, AMEND AS REQUIRED BY LANDSCAPE ARCHITECT.
3. SHRUBS & GROUNDCOVER PLANTED ADJACENT TO CITY SIDEWALKS NEED TO BE PLACED SO THE PLANTS, AT THEIR MATURE HEIGHT & WIDTH, WILL NOT ENCROACH INTO THE CITY'S SIDEWALK.

TYPICAL SHRUB PLANTING

NOTE:
D = DIMENSION OF PLANT SPACING (SHRUB OR GROUNDCOVER AS INDICATED ON PLANS)

TYPICAL PERENNIAL PLANTING

L8



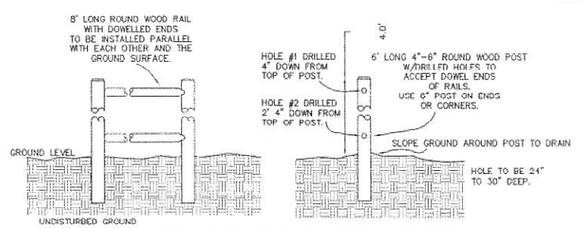
CRUSHED STONE BEDDING*

SIEVE SIZE	% PASSING BY WEIGHT
1"	100
3/4"	90 - 100
#4	0 - 10
#8	0 - 5

*EQUIVALENT TO STANDARD STONE SIZE #67 - SECTION 702 OF NHDOT STANDARD SPECIFICATIONS

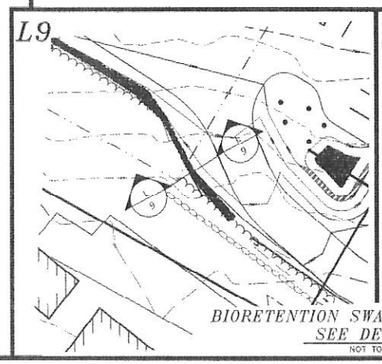
TYPICAL BIORETENTION DRY-SWALE

L7

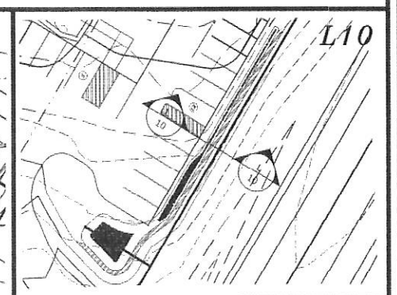


TYPICAL POST & RAIL FENCE DETAIL
N.T.S.

L9



L10



BIORETENTION SWALE CROSS SECTION
SEE DETAIL L8
NOT TO SCALE

REVISION	DATE	DESCRIPTION
1	8/12/15	PLANNING BOARD SITE REVIEW APPLICATION

LANDSCAPING DETAILS
FOR KENDALL AUTO AND TRUCK SALES
LAND OF DAYNA CUMMINGS
16 CALEF HIGHWAY
BARRINGTON, NH
TAX MAP 220, LOT 43

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (332-2863)

SCALE : NOT TO SCALE
DATE : JULY 29, 2015
FILE NO. : DB 2015 - 058

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14243
LICENSED
PROFESSIONAL ENGINEER

L-101

SHEET 11 OF 11