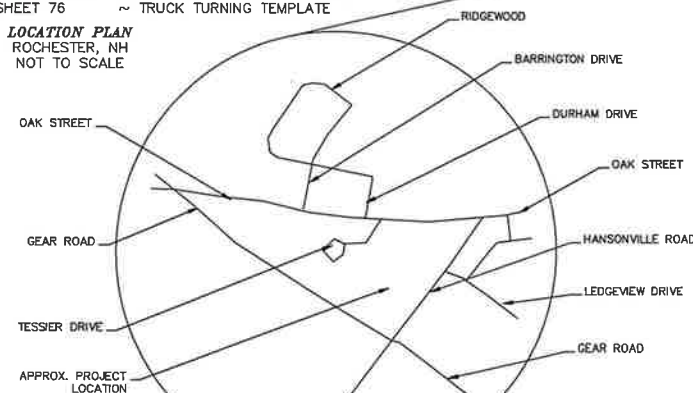


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SHEET 20	- PLAN AND PROFILE HALF PEAK LANE 4+25 TO 8+75
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SHEET 41	- UTILITY HALF PEAK LANE 8+75 TO 13+00
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SHEET 76	- TRUCK TURNING TEMPLATE

LOCATION PLAN ROCHESTER, NH NOT TO SCALE



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

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

WETLAND & SOILS: STONEY RIDGE ENVIRONMENTAL
CYNTHIA M. BALCIUS, CSS, CWS, CPESC
229 PARKER MOUNTAIN ROAD
ALTON, NH 03809
603-776-5825

INFILTRATION
TEST PITS: STONEY RIDGE ENVIRONMENTAL LLC
229 PROSPECT MOUNTAIN RD.
ALTON, NH 03809
603-776-5825

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 STATEMENT "FOR CONSTRUCTION" IN THE REVISION BLOCK.

REQUIRED PERMITS:

- 1.) NHDES ALTERATION OF TERRAIN: Aot - 1444
- 2.) NHDES SEWER DISCHARGE PERMIT: D2018-0414
- 3.) EPA NOTICE OF INTENT & STORM WATER POLLUTION PREVENTION PLAN: NHR1000HA
- 4.) LOCAL CHAPTER 50 STORM WATER PERMIT: D-18-23

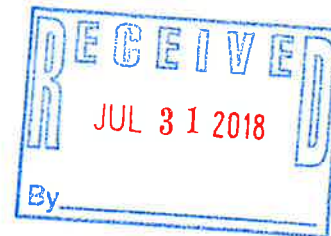
OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857

APPLICANT: HALF PEAK HOLDING, LLC
P.O. BOX 1297
NORTH HAMPTON, NH 03862

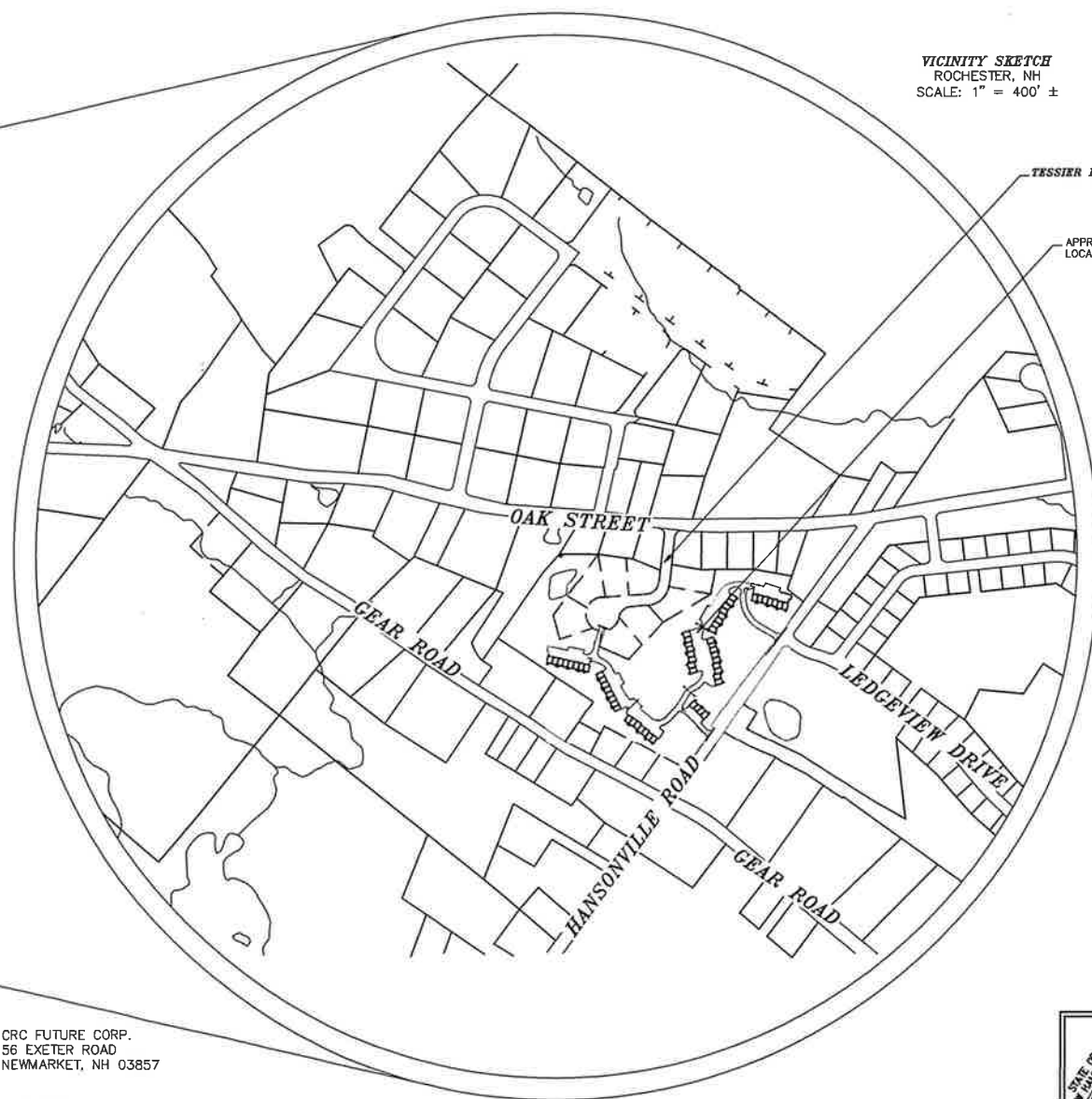
RESIDENTIAL SITE PLAN FOR LEDGEVIEW II HANSONVILLE ROAD ROCHESTER, N.H. TAX MAP 251, LOT 120 & TAX MAP 251, LOT 121

NOTE:

BERRY SURVEYING & ENGINEERING HAS PREPARED AN INSPECTION & MAINTENANCE MANUAL AS PART OF THIS PROJECT'S DOCUMENTATION. ALL USERS ARE BOUND TO THIS DOCUMENT AS PART OF THIS PLAN SET. COPIES OF THE YEARLY INSPECTIONS ARE TO BE DELIVERED TO THE CITY OF ROCHESTER PLANNING DEPARTMENT.



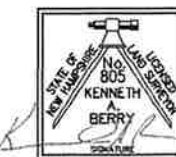
VICINITY SKETCH
ROCHESTER, NH
SCALE: 1" = 400' ±



REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER AOT COMMENT
#5b	05-24-2018	NHDES WMB RESPONSE
#4	05-02-2018	AOT REVISIONS
#3	04-11-2018	REVISIONS
#2	03-30-2018	GENERAL PLAN SET

COVER SHEET
CRC FUTURE CORP.
FOR
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603) 332-2863
SCALE: AS NOTED.
DATE: JANUARY 22, 2018
FILE NO.: DB 2017 -- 167



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
E.S.H.W.T. ESTIMATE SEASONAL HIGH WATER TABLE
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
T.B.R. TO BE REMOVED
'/, FEET / FEET

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)

EXISTING 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 MANHOLE
SINGLE POST SIGN
TEST PIT
TREE
BUILDING SETBACK LINE
EASEMENT LINE
GAS LINE
WATER LINE
SEWER LINE
OVERHEAD UTILITIES
HIGHWAY FENCE
SOILS LINE
EXISTING CONTOUR MINOR
EXISTING CONTOUR MAJOR
EXISTING CULVERT PIPE

PROPOSED LEGEND:

UTILITY POLE
UTILITY PADS
SEWER MANHOLE
WATER SHUT OFF / VALVE
HYDRANT
THRUST BLOCK
LIGHTING
CATCH BASIN / DRAIN MANHOLE
SIGNAGE
LAMP
CHECK DAM-MATERIAL AS SPECIFIED

CONTOUR MINOR
CONTOUR MAJOR
SPOT GRADE
CULVERT W/ FLARED END
SECTION (F.E.S.)

DETAIL SHEET / DETAIL

TREE LINE

CENTER LINE

UNDERGROUND UTILITY
TRANSFORMER / J.BOX

UNDER DRAIN

WATER LINE

SEWER LINE

GAS LINE

SILT FENCE / EROSION MIX BERM

FILTREX B" - 12" SILT SOXX AS SPECIFIED

ORANGE CONSTRUCTION PERIMETER FENCE

ADJUTERS WITHIN 200':

N/F CRC FUTURE CORP
26 EXETER ROAD
NEWMARKET, NH 03857
TAX MAP 251, LOT 129
S.C.R.D. BOOK 2975, PAGE 469

N/F TESSIER, PETER J
5 HANSONVILLE ROAD
ROCHESTER, NH 03839
TAX MAP 251, LOT 122
S.C.R.D. BOOK 2157, PAGE 434

N/F NOBLE, JOHN P & MARY A
74 OAK STREET
ROCHESTER, NH 03839
TAX MAP 251, LOT 128
S.C.R.D. BOOK 1565, PAGE 160

N/F EMBESON, KRISTIN A
76 OAK STREET
ROCHESTER, NH 03839
TAX MAP 251, LOT 124
S.C.R.D. BOOK 3656, PAGE 138

N/F MONTGOMERY, DONALD J
78 OAK ST
ROCHESTER, NH 03839
TAX MAP 251, LOT 125
S.C.R.D. BOOK 2161, PAGE 001

N/F FOOTE, HAZEL E
82 OAK ST
ROCHESTER, NH 03839
TAX MAP 251, LOT 126
S.C.R.D. BOOK 1507, PAGE 387

N/F SALLY BEVIS REV TST
SALLY BEVIS TSTEE
8 ASH TREE TRL
WELLS, ME 04090
TAX MAP 251, LOT 128
S.C.R.D. BOOK 3165, PAGE 873

N/F SPOZATO, JOHN & KRISTIN A
14 TESSIER DR
ROCHESTER, NH 03839
TAX MAP 251, LOT 129
S.C.R.D. BOOK 4217, PAGE 345

N/F GRAVES, DENNIS & LORRIE
35 TESSIER DR
ROCHESTER, NH 03839
TAX MAP 251, LOT 130 & 131
S.C.R.D. BOOK 3234, PAGE 933

ADJUTERS WITHIN 200' CONT.:

N/F MURTAGH, RYAN MICHAEL
25 TESSIER DR
ROCHESTER, NH 03839
TAX MAP 251, LOT 127
S.C.R.D. BOOK 3883, PAGE 735

N/F RICHARDSON, SARAH E & WILLIAM B
23 TESSIER DR
ROCHESTER, NH 03839
TAX MAP 251, LOT 128
S.C.R.D. BOOK 4466, PAGE 671

N/F MCCABE, KATHLEEN T
21 TESSIER DR
ROCHESTER, NH 03839
TAX MAP 251, LOT 124
S.C.R.D. BOOK 3149, PAGE 868

N/F MITROPOLIS, FRANK & TRACY L
86 OAK ST
ROCHESTER, NH 03839
TAX MAP 251, LOT 127
S.C.R.D. BOOK 1374, PAGE 452

N/F MARSHBURN FAMILY REV TST
HOWARD & PATRICIA MARSHBURN
90 OAK ST
ROCHESTER, NH 03839
TAX MAP 251, LOT 128
S.C.R.D. BOOK 3393, PAGE 322

N/F DUPUIS, PAUL R & SIM, NARETH
756 WASHINGTON ST
BARRINGTON, NH 03825
TAX MAP 251, LOT 129
S.C.R.D. BOOK 4457, PAGE 453

N/F MORRIS, SUSAN E & FRANCIS J
ROCHESTER, NH 03839
TAX MAP 251, LOT 116
S.C.R.D. BOOK 2350, PAGE 207

N/F DOLE, BRADLEY R & SUSAN E
125 GEAR RD
ROCHESTER, NH 03839
TAX MAP 251, LOT 118
S.C.R.D. BOOK 1236, PAGE 527

ADJUTERS WITHIN 200' CONT.:

N/F LADISHEFF, DANIEL & DONNA A
121 GEAR RD
ROCHESTER, NH 03839
TAX MAP 251, LOT 117
S.C.R.D. BOOK 3910, PAGE 718

N/F FORMER, CHRISTOPHER D
119 GEAR RD
ROCHESTER, NH 03839
TAX MAP 251, LOT 118
S.C.R.D. BOOK 4120, PAGE 685

N/F MCGOWAN, CONNOR B & MORRISON SHAUN
117 GEAR RD
ROCHESTER, NH 03839
TAX MAP 251, LOT 119
S.C.R.D. BOOK 4522, PAGE 590

N/F CRC FUTURE CORP
56 EXETER RD
NEWMARKET, NH 03857
TAX MAP 251, LOT 120
S.C.R.D. BOOK 2975, PAGE 469

N/F DUPUIS, ARMAND G & SIMONE A
109 GEAR RD
ROCHESTER, NH 03839
TAX MAP 251, LOT 88
S.C.R.D. BOOK 4426, PAGE 803

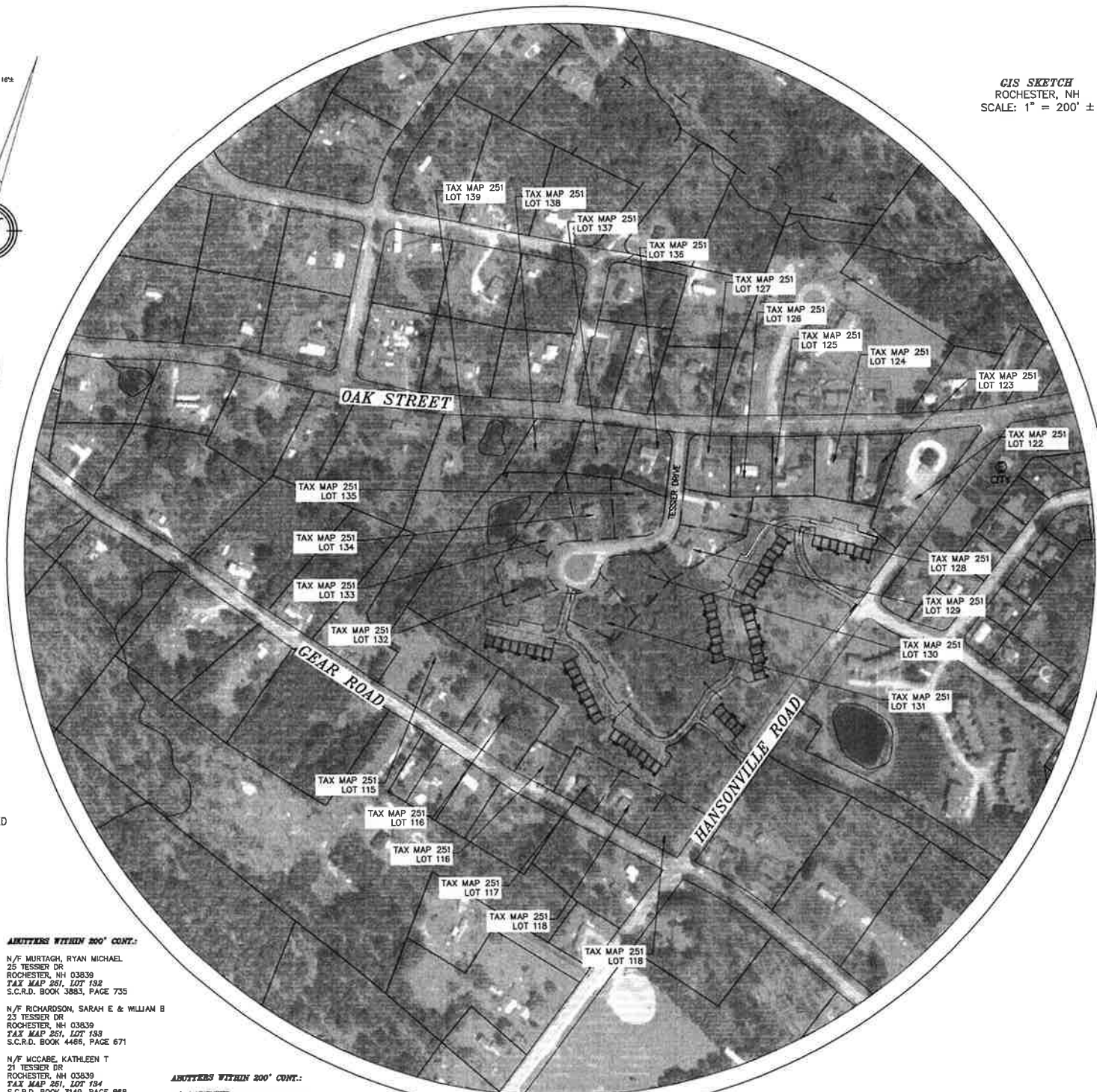
ADJUTERS WITHIN 200' CONT.:

N/F GREAT BRIDGE ROCHESTER LTD
STEWART PARTNERSHIP
PO BOX 10540
BEDFORD, NH 03110
TAX MAP 251, LOT 10
S.C.R.D. BOOK 2902, PAGE 719

N/F LEDGEVIEW CONDOMINIUM ASSOC
EXECUTIVE PROPERTIES
PO BOX 333
ROCHESTER, NH 03866
TAX MAP 251, LOT 34
S.C.R.D. BOOK 1464, PAGE 155

N/F MAXFIELD DAN E & JAN C
PO BOX 304
ROCHESTER, NH 03866
TAX MAP 251, LOT 82
S.C.R.D. BOOK 2242, PAGE 250

GIS SKETCH
ROCHESTER, NH
SCALE: 1" = 200' ±

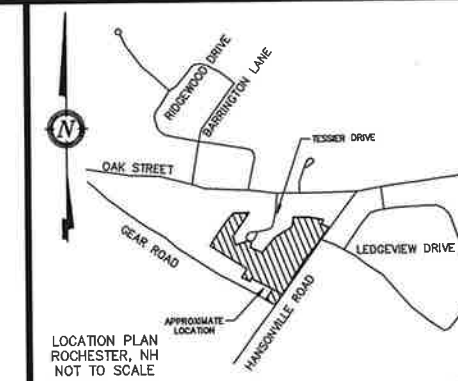


REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6	06-18-2018	REVISED PER AOT COMMENT
#5	05-24-2018	NHDES WNEB RESPONSE
#4	05-02-2018	AOT REVISIONS
#3	04-11-2018	SEWER & WATER REVISIONS
#2	04-09-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

NEIGHBORHOOD PLAN LAND OF CRC FUTURE CORP. HALF PEAK HOLDINGS GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE ROCHESTER, NH 03867 TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)352-2863
SCALE: AS NOTED.
DATE: JANUARY 22, 2018
FILE NO.: DB 2017 - 167

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 805
LICENSED PROFESSIONAL ENGINEER



NOTES:

- 1.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE PHASING PLAN FOR 59 THREE BEDROOM CONDOMINIUM TOWNHOUSES.
- 2.) CURRENT OWNER: CRC FUTURE CORP. 56 EXETER ROAD NEWMARKET, NH 03857
- 3.) APPLICANT: HALF PEAK HOLDINGS, LLC PO BOX 1297 NORTH HAMPTON, NH 03862
- 4.) THE PROJECT PARCEL IS SHOWN AS LOT NO. 120, MAP 251 OF THE CITY OF ROCHESTER TAX ASSESSOR'S MAPS.
- 5.) THE PROJECT PARCEL CONTAINS 13.84 ACRES OR 602,671 SQUARE FEET AREA OF LAND.
- 6.) PROJECT PLAN REFERENCES: S.C.R.D. BOOK 2075, PAGE 469

DISTURBANCE PER PHASES:

PHASE 1 IS REQUIRED TO BUILT AND STABILIZED PRIOR TO THE COMMENCEMENT OF PHASE 2. THERE IS TO BE NO MORE THAN FIVE ACRES OF OPEN DISTURBANCE AT ANY ONE TIME.

PHASE 1: 169,518 Sq. Ft., 3.89 Ac.

- INFRASTRUCTURE PROPOSED AS PART OF THE 600 FEET OF HALF PEAK LANE, TOPAZ LANE AND JAY PEAK LANE.
- SEWER EXTENSION TO TESSIER DRIVE
- CONSTRUCTION OF TOPAZ LANE, JAY PEAK LANE AND HALF PEAK LANE TO 6+00.
- LANDSCAPING, EROSION AND SEDIMENT CONTROL FOR JAY PEAK LANE, TOPAZ LANE AND HALF PEAK LANE TO 6+00.

PHASE 2: 144,985 Sq. Ft., 3.32 Ac.

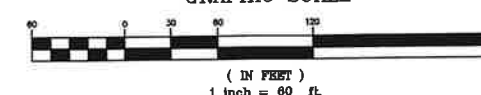
- CONSTRUCTION OF MARWARI LANE, HALF PEAK LANE 6+00 TO END
- ALL ASSOCIATED UTILITIES, LANDSCAPING AND EROSION AND SEDIMENT CONTROL.

LEGEND:

- PROPOSED EASEMENT LINE
- EXISTING EASEMENT LINE
- BOUNDARY LINE
- WETLAND LINE
- STONE WALL
- PHASE LINE



GRAPHIC SCALE

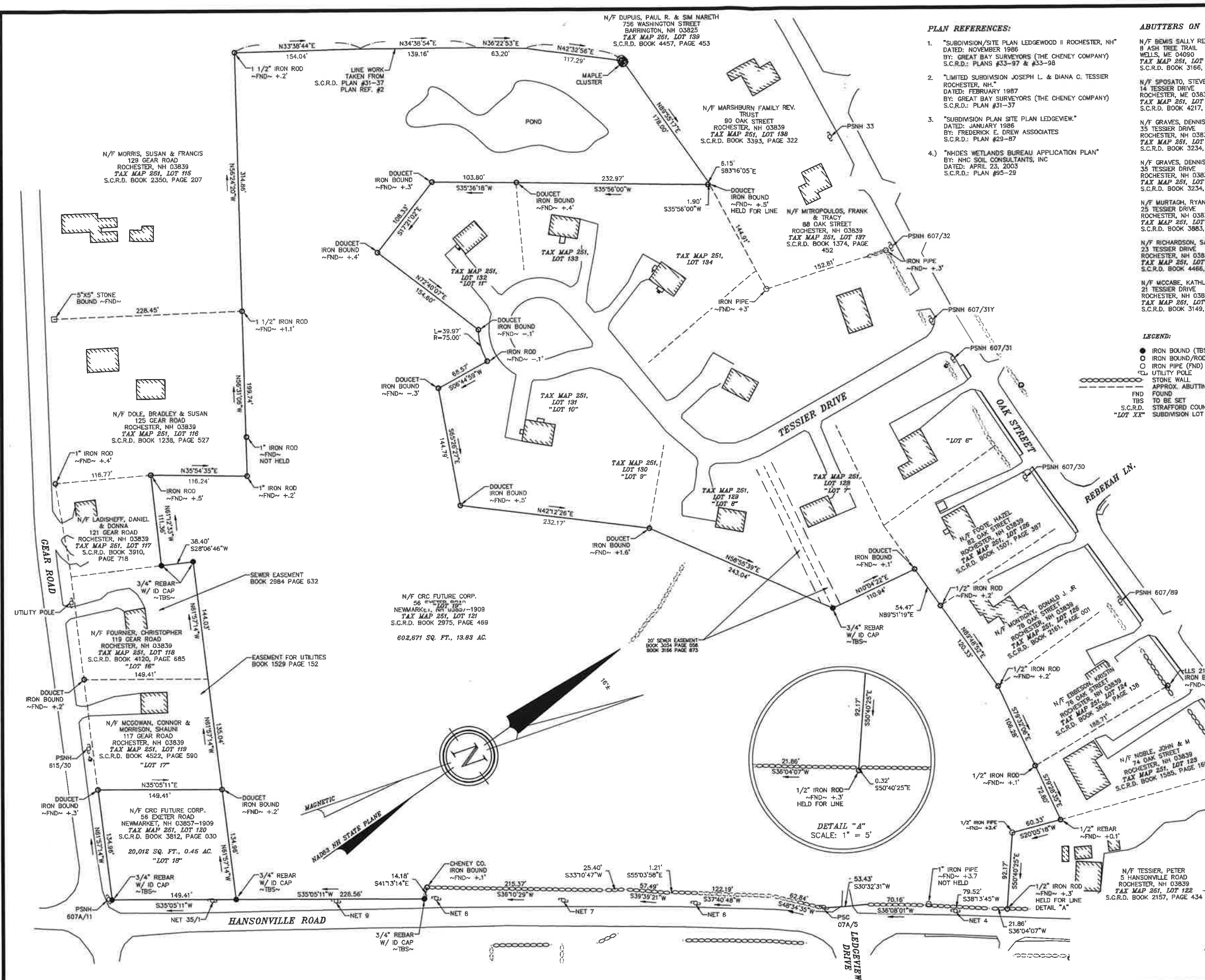


REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6	08-18-2018	REVISED PER AGT COMMENT
#5	08-24-2018	INDES WEB RESPONSE
#4	09-12-2018	REVISED PER AGT COMMENT
#3	09-12-2018	GENERAL & WATER REVISIONS
#2	04-09-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

PHASING PLAN
LAND OF
CRC FUTURE CORP.
FOR
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 60 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167





PLAN REFERENCES:

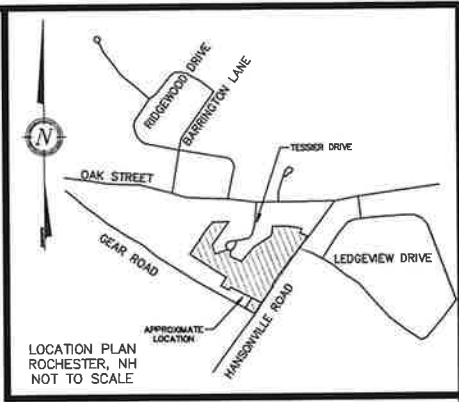
- "SUBDIVISION/SITE PLAN LEDGEWOOD II ROCHESTER, NH" DATED: NOVEMBER 1986 BY: GREAT BAY SURVEYORS (THE CHENEY COMPANY) S.C.R.D.: PLANS #33-97 & #33-98
- "LIMITED SUBDIVISION JOSEPH L. & DIANA C. TESSIER ROCHESTER, NH." DATED: FEBRUARY 1987 BY: GREAT BAY SURVEYORS (THE CHENEY COMPANY) S.C.R.D.: PLAN #31-37
- "SUBDIVISION PLAN SITE PLAN LEDGEVIEW," DATED: JANUARY 1986 BY: FREDERICK E. DREW ASSOCIATES S.C.R.D.: PLAN #29-87
- "NHDES WETLANDS BUREAU APPLICATION PLAN" DATED: APRIL 23, 2003 S.C.R.D.: PLAN #95-29

ABUTTERS ON TESSIER DRIVE:

- N/F BEMIS SALLY REV. TRUST
8 ASH TREE TRAIL
WELLS, ME 04090
TAX MAP 251, LOT 128
S.C.R.D. BOOK 3166, PAGE 873
- N/F SPOSATO, STEVEN & KRISTIN
14 TESSIER DRIVE
ROCHESTER, ME 03839
TAX MAP 251, LOT 129
S.C.R.D. BOOK 4217, PAGE 345
- N/F GRAVES, DENNIS & LORIE
35 TESSIER DRIVE
ROCHESTER, NH 03839
TAX MAP 251, LOT 130
S.C.R.D. BOOK 3234, PAGE 555
- N/F GRAVES, DENNIS & LORIE
35 TESSIER DRIVE
ROCHESTER, NH 03839
TAX MAP 251, LOT 131
S.C.R.D. BOOK 3234, PAGE 555
- N/F MURTAGH, RYAN
25 TESSIER DRIVE
ROCHESTER, NH 03839
TAX MAP 251, LOT 132
S.C.R.D. BOOK 3863, PAGE 735
- N/F RICHARDSON, SARAH & WILLIAM
23 TESSIER DRIVE
ROCHESTER, NH 03839
TAX MAP 251, LOT 133
S.C.R.D. BOOK 4468, PAGE 671
- N/F MCCABE, KATHLEEN
21 TESSIER DRIVE
ROCHESTER, NH 03839
TAX MAP 251, LOT 134
S.C.R.D. BOOK 3149, PAGE 868

LEGEND:

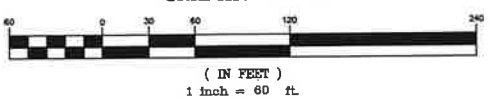
- IRON BOUND (TBS)
- IRON BOUND/ROD/REBAR (FND)
- IRON PIPE (FND)
- UTILITY POLE
- STONE WALL
- APPROX. ABUTTING LOT LINE
- FND TO BE SET
- S.C.R.D. STRAFFORD COUNTY REGISTRY OF DEEDS
- "LOT XX" SUBDIVISION LOT NUMBER



NOTES:

- OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857
- APPLICANT: HALF PEAK HOLDING, LLC
P.O. BOX 1297
NORTH HAMPTON, NH 03862
- A.) TAX MAP 251, LOT 120
B.) TAX MAP 251, LOT 121
- LOT AREA:
A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.
- S.C.R.D.
A.) BOOK 2975, PAGE 469
B.) BOOK 2975, PAGE 469
- THE INTENT OF THIS PLAN IS TO SHOW THE LOCATION OF BOUNDARIES OF TAX MAP 251, LOT 120 & 121 IN ACCORDANCE WITH AND IN RELATION TO THE CURRENT AND ORIGINAL LEGAL DESCRIPTIONS, AND IS NOT AN ATTEMPT TO DEFINE UNWRITTEN RIGHTS, DETERMINE THE EXTENT OF OWNERSHIP, OR DEFINE THE LIMITS OF TITLE.
- NH STANDARD PROPERTY SURVEY WITH A CLOSURE OF 1:26,264.

GRAPHIC SCALE



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.

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

#1	03-12-2018	EASEMENT REFERENCE
REVISION	DATE	DESCRIPTION
		BOUNDARY PLAN LAND OF CRC FUTURE CORP. FOR HALF PEAK HOLDINGS GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE ROCHESTER, NH 03867 MAP 251, LOT 120 & 121
		BERRY SURVEYING & ENGINEERING 335 SECOND CROWN POINT RD. BARRINGTON, N.H. (603)332-2863
		SCALE : 1 IN. EQUALS 60 FT.
		DATE : JANUARY 15, 2018
		FILE NO. : DB 2017-167

JURISDICTIONAL WETLANDS WERE DELINEATED BY CINDY BALCIUS OF STONEY RIDGE ENVIRONMENTAL LLC IN JULY OF 2017 UTILIZING THE FOLLOWING STANDARDS:

- 1) FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 7.0, 2010, L.M. VASILAS, G.W. HURT, AND C.V. NOBLE (EDS.), UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, IN COOPERATION WITH THE NATIONAL TECHNICAL COMMITTEE FOR HYDRIC SOILS.
- 2) FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 3, APRIL 2004, NEWPPCC WETLANDS WORKGROUP, WILMINGTON, MA 01887.
- 3) NORTH AMERICAN DIGITAL FLORA: NATIONAL WETLAND PLANT LIST, VERSION 2.1.0 (HTTP://WETLAND_PLANTS.USACE.ARMY.MIL/). U.S. ARMY CORPS OF ENGINEERS, ENGINEER RESEARCH AND DEVELOPMENT CENTER, COLD REGIONS RESEARCH AND ENGINEERING LABORATORY, HANOVER, NH, AND BONAP, CHAPEN HILL.
- 4) STATE OF NEW HAMPSHIRE 2014 WETLAND PLANT LIST, LICHVAR, R.W., M. BUTTERWICH, N.C. MELVIN, AND W.N. KIRCHNER, 2014, THE NATIONAL WETLAND PLANT LIST: 2014 UPDATE OF WETLAND RATINGS, PHYTONURON 2014-41:1-42.
- 5) CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, JANUARY 1987, WETLANDS RESEARCH PROGRAM TECHNICAL REPORT Y-67-1.
- 6) REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHEASTERN AND NORTHEAST REGION, JANUARY 2012, VERSION 2, U.S. ARMY CORPS OF ENGINEERS, ENVIRONMENTAL LABORATORY ERDC/EL TR-12-1.
- 7) CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE UNITED STATES, DECEMBER 1979, L. COWARDIN, V. CARTER, F. GOLET, AND E. LARCE, US DEPARTMENT OF THE INTERIOR, FISH AND WILDLIFE SERVICE, FWS/OBS-79/31.

STONEY RIDGE ENVIRONMENTAL, LLC,
CINDY BALCIUS, CWS #61

STONEY RIDGE ENVIRONMENTAL, LLC,
CINDY BALCIUS, CSS #84

SOILS LEGEND

SYMBOL	SOIL TAXONOMIC NAME	HYDROLOGIC SOIL GROUP
38B	ELDRIDGE FINE SANDY LOAM	B
38C	ELDRIDGE FINE SANDY LOAM	B
38D	ELDRIDGE FINE SANDY LOAM	B
42A	CANTON FINE SANDY LOAM	B
86A	HOLLIS FINE SANDY LOAM	C/D
115A/VPD	SCARBORO MUCK	D
135B	CHATFIELD VARIANT-NEWFIELDS COMPLEX	B
135C	CHATFIELD VARIANT-NEWFIELDS COMPLEX	B
135D	CHATFIELD VARIANT-NEWFIELDS COMPLEX	B
313A	DEERFIELD LOAMY SAND	B
313B	DEERFIELD LOAMY SAND	B
313C	DEERFIELD LOAMY SAND	B

SLOPES: 0-8% A/B 25%-50% E
8-15% C 50%+ F
15-25% D

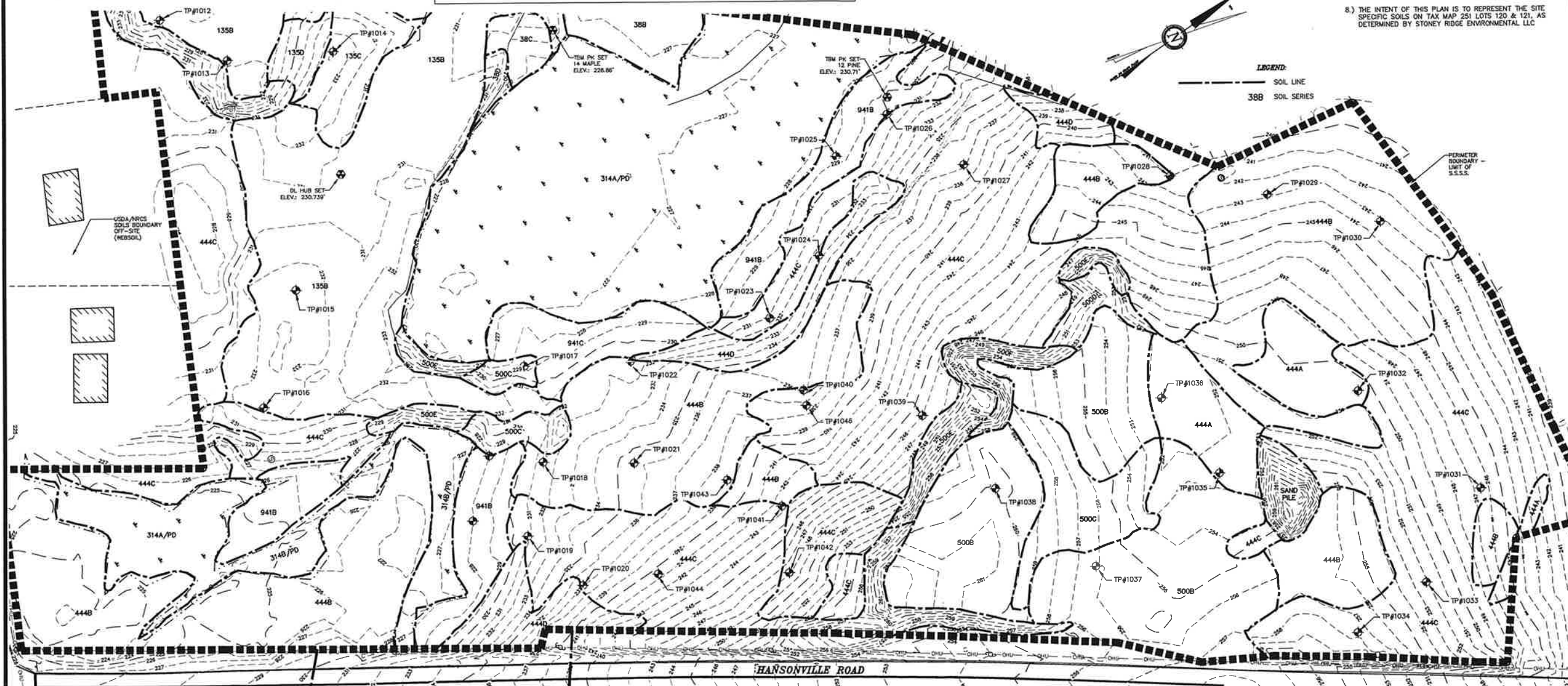
DENOMINATOR: /PD = POORLY DRAINED
/VPD = VERY POORLY DRAINED

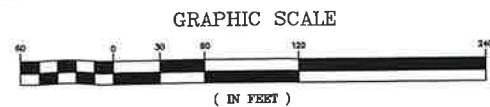
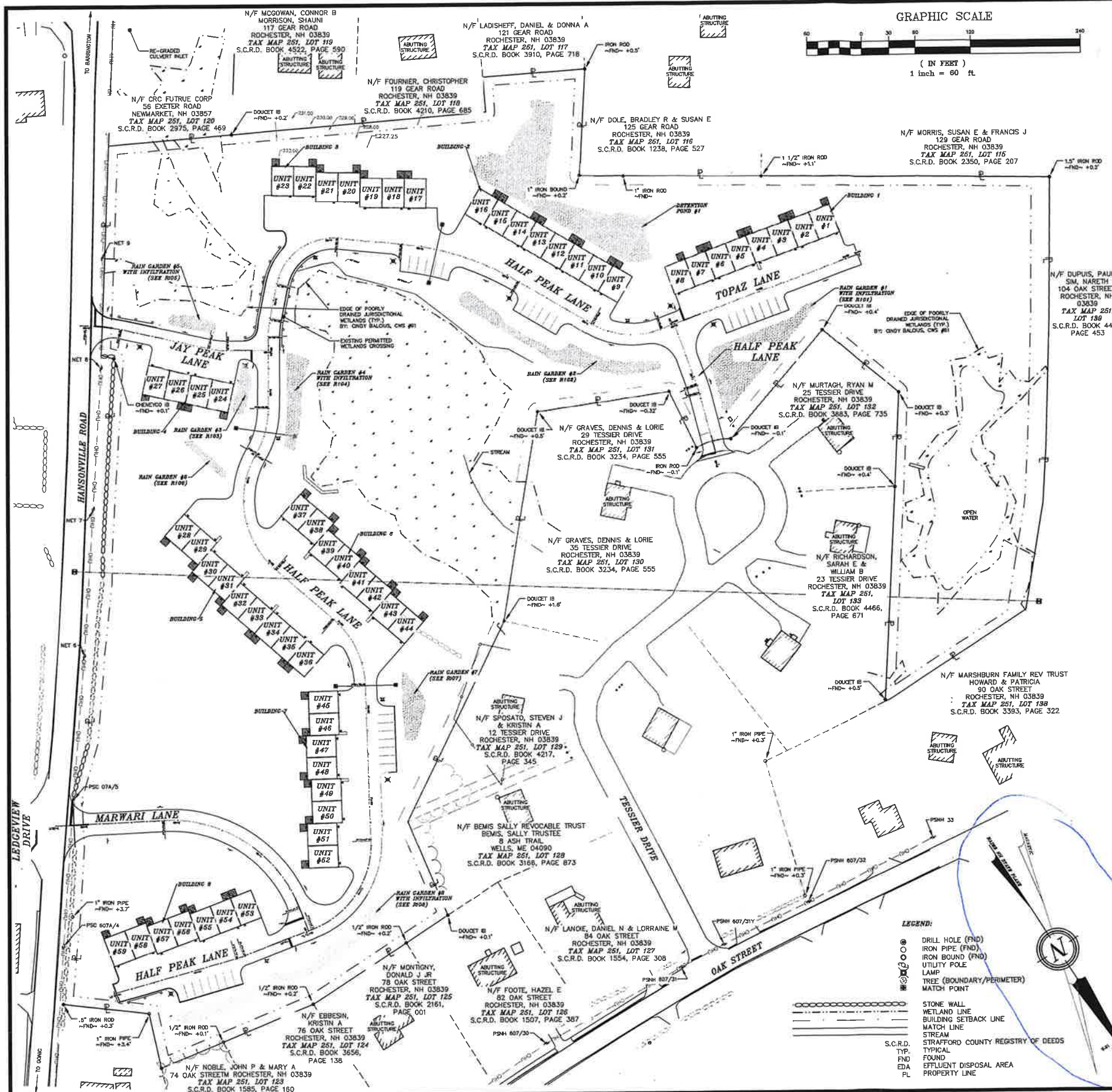
SOILS LEGEND

SYMBOL	SOIL TAXONOMIC NAME	HYDROLOGIC SOIL GROUP
314B/PD	PIPESTONE FINE SANDY LOAM	B
314C/PD	PIPESTONE FINE SANDY LOAM	B
444A	NEWFIELDS FINE SANDY LOAM	B
444B	NEWFIELDS FINE SANDY LOAM	B
444C	NEWFIELDS FINE SANDY LOAM	B
500A	UNDORTMENTS LOAMY	C
500B	UNDORTMENTS LOAMY	C
500C	UNDORTMENTS LOAMY	C
500D	UNDORTMENTS LOAMY	C
500E	UNDORTMENTS LOAMY	C
500F	UNDORTMENTS LOAMY	C
941B	NEWFIELDS VARIANT	
941C	NEWFIELDS VARIANT	

NOTES:

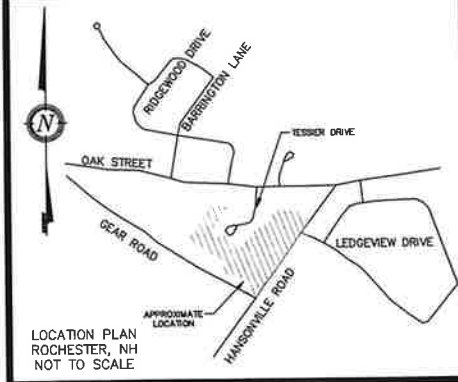
- 1) OWNER: ORC FUTURE CORP.
66 EXETER ROAD
NEWMARKET, NH 03857-1809
- 2) A.) TAX MAP 251, LOT 120
B.) TAX MAP 251, LOT 121
- 3) LOT AREA:
A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.
- 4) S.C.R.D.: BOOK 2975, PAGE 469
- 5) ZONING: RESIDENTIAL-1 (R1)
FRONTAGE ~ 100'
MINIMUM LOT SIZE ~ 10,000 Sq. Ft.
FRONT SETBACK ~ 10.0'
REAR SETBACK ~ 20.0'
SIDE SETBACK ~ 10.0'
WETLANDS BUFFER ~ 50.0' IF OVER HALF ACRE
MAX. LOT COVERAGE: 35%
- 6) I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE & BELIEF, THIS PARCEL DOES NOT FALL WITHIN THE FLOOD PLAIN FLOOD HAZARD REF.: FEMA COMMUNITY# ~330150, MAP# ~ 33017002040 & 33017002120, DATED: MAY 17, 2005
- 7) VERTICAL DATUM BASED ON USGS NAVD83 ELEVATIONS. HORIZONTAL COORDINATES BASED ON NAD83. COORDINATES GATHERED USING TOPCON HIPER SR SURVEY GRADE GPS RECEIVERS.
- 8) THE INTENT OF THIS PLAN IS TO REPRESENT THE SITE SPECIFIC SOILS ON TAX MAP 251 LOTS 120 & 121, AS DETERMINED BY STONEY RIDGE ENVIRONMENTAL LLC





NOTES:

- 1.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE OVERVIEW SITE PLAN DESIGN FOR 59 THREE BEDROOM CONDOMINIUM TOWNHOUSES.
- 2.) CURRENT OWNER: CRC FUTURE CORP. 56 EXETER ROAD NEWMARKET, NH 03857
- 3.) APPLICANT: HALF PEAK HOLDINGS, LLC PO BOX 1297 NORTH HAMPTON, NH 03862
- 4.) THE PROJECT PARCEL IS SHOWN AS LOT NO. 120, MAP 251 OF THE CITY OF ROCHESTER TAX ASSESSOR'S MAPS.
- 5.) THE PROJECT PARCEL CONTAINS 13.84 ACRES OR 602,571 SQUARE FEET AREA OF LAND.
- 6.) PROJECT PLAN REFERENCES: S.C.R.D. BOOK 2975, PAGE 469
- 7.) EXISTING IMPERVIOUS AREA ON LOT = 0 Sq.Ft. (0% OF LOT) PROPOSED IMPERVIOUS AREA ON LOT = 145,044 Sq.Ft. (24.1% OF LOT)
- 8.) EXISTING PRINCIPAL BUILDING LOT COVERAGE = 0 Sq.Ft. (0% OF LOT) PROPOSED PRINCIPAL BUILDING LOT COVERAGE = 45,312 Sq.Ft. (7.52% OF LOT)
- 9.) ZONING: RESIDENTIAL-1 (R1) FRONTAGE ~ 100' MINIMUM LOT SIZE ~ 10,000 Sq. Ft. FRONT SETBACK ~ 10.0' REAR SETBACK ~ 20.0' SIDE SETBACK ~ 10.0' WETLANDS BUFFER ~ 50.0' IF OVER HALF ACRE MAX. LOT COVERAGE: 35%
- 10.) I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE & BELIEF, THIS PARCEL DOES NOT FALL WITHIN THE FLOOD PLAIN FLOOD HAZARD REF.: FEMA COMMUNITY# -330150, MAP# - 3301700204D & 3301700212D, DATED: MAY 17, 2005
- 11.) VERTICAL DATUM IS BASED ON NAVD83 (USGS) ELEVATIONS. HORIZONTAL COORDINATES ARE BASED ON NAD83. COORDINATES WERE GATHERED USING TOPCON HIPER SR SURVEY GRADE GPS RECEIVERS.
- 12.) PROPERTY LINE INFORMATION HAS BEEN OBTAINED FROM A SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING IN NOVEMBER OF 2017, WITH AN ERROR NOT GREATER THAN 1 IN 26,264.
- 13.) TOPOGRAPHIC SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING IN NOVEMBER OF 2017.
- 14.) AS-BUILT PLANS OF THE SITE SHALL BE SUBMITTED ON A REPRODUCIBLE MYLAR MEDIUM AND IN A DIGITAL DXF FORMAT ON DISK TO THE CITY OF ROCHESTER ENGINEER'S OFFICE UPON COMPLETION OF PROJECT. AS-BUILT PLANS SHALL BE PREPARED AND CERTIFIED CORRECT BY A L.L.S. OR P.E.
- 15.) EXTERIOR LIGHTING SHALL BE CUT-OFF TYPE FIXTURES AND SHALL PROVIDE LIGHTING DIRECTED ON-SITE ONLY.
- 16.) THE PROPOSED STRUCTURES SHALL BE SERVED BY SPRINKLER SYSTEMS AS REQUIRED BY THE 2009 STATE BUILDING CODES.
- 17.) SPRINKLER CONNECTIONS MUST BE FLUSHED IN ACCORDANCE WITH NFPA 24 AND A CONTRACTOR'S MATERIALS AND TEST CERTIFICATE FOR UNDERGROUND PIPING FORM MUST BE COMPLETED.
- 18.) ALL NEW ON-SITE UTILITIES SHALL BE INSTALLED UNDERGROUND, UNLESS OVERHEAD UTILITIES ALREADY EXIST
- 19.) THE SUBJECT PARCEL IS SERVED BY MUNICIPAL WATER AND SEWER.
- 20.) ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO APPLICABLE TOWN AND STATE CODES.
- 21.) ALL EROSION CONTROL NOTES SHALL INCLUDE PROVISIONS FOR CONSTRUCTION SEQUENCING, TEMPORARY EROSION CONTROL MEASURES, AND PERMANENT STANDARDS SUCH AS LOAM SPREAD RATE FOR DISTURBED AREAS, RATES OF LIME, TYPE AND RATES FOR FERTILIZER, AND SEED AND MULCH MIXTURE WITH RATES OF APPLICATION.
- 22.) THE LIMITS OF CONSTRUCTION DISTURBANCE SHALL BE STAKED, FLAGGED, AND CLEARLY IDENTIFIED PRIOR TO THE COMMENCEMENT OF SITE WORK.
- 23.) A LETTER OF CREDIT FOR THE COST OF REVEGETATING ALL DISTURBED AREAS ON THE SITE SHALL BE SUBMITTED PRIOR TO ANY EARTH DISTURBING ACTIVITY OCCURS. COORDINATE WITH CITY OF ROCHESTER, DEPARTMENT OF PUBLIC WORKS AND PLANNING DEPARTMENT.
- 24.) A PRE-CONSTRUCTION CONFERENCE WITH THE DEVELOPER, THE DESIGN ENGINEER, THE EARTHWORK CONTRACTOR, THE CITY ENGINEER, AND HEAD OF PLANNING SHALL OCCUR PRIOR TO ANY EARTH DISTURBING ACTIVITY.
- 25.) BUILDING ADDRESSES SHALL BE ASSIGNED BY THE BUILDING OFFICIAL AT THE TIME OF ISSUANCE OF A BUILDING PERMIT.
- 26.) THE PROPOSED USE FOR THE SITE IS A RESIDENTIAL 2-3 BEDROOM TOWN HOUSES.
- 27.) THIS PLAN PROPOSES APPROXIMATELY 310,000 SQ. FT. OF DISTURBANCE.
- 28.) CALL DIG SAFE PRIOR TO BEGINNING WORK (1-888-344-7233)
- 29.) ALL CONSTRUCTION SHALL CONFORM TO THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. CONSTRUCTION SHALL ALSO CONFORM TO THE CITY OF ROCHESTER POLICIES AND PRACTICES.
- 30.) WRITTEN DIMENSION ON THIS PLAN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. 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.
- 31.) SNOW STORAGE AREAS ARE AS SHOWN ON THIS SITE PLAN. EXCESS SNOW WILL BE REMOVED FROM THIS SITE AND DISPOSED OF IN A QUALIFIED LOCATION. A 1:6 RATIO OF STORAGE WAS USED TO DETERMINE ADEQUACY SHOWN.
- 32.) THE OWNER OF RECORD SHALL RECORD AT THE REGISTRY OF DEEDS DOCUMENTATION SUFFICIENT TO PROVIDE NOTICE TO ALL PERSONS THAT MAY ACQUIRE ANY PROPERTY SUBJECT TO THE REQUIREMENTS AND RESPONSIBILITIES DESCRIBED IN THE APPROVED STORMWATER MANAGEMENT PLAN. THE NOTICE SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS FOR RECORDING CONTAINED IN RSA 477 AND 478. THE NOTICE NEED NOT SET FORTH THE REQUIREMENTS AT LENGTH, SO LONG AS IT IS SUFFICIENT TO PROVIDE NOTICE TO PROSPECTIVE PURCHASERS TO THE REQUIREMENTS FOR MAINTENANCE AND REPORTING.
- 33.) SITE CONSTRUCTION HOURS SHALL BE LIMITED TO MONDAY-FRIDAY 7 AM - 6 PM, SATURDAY 9 AM - 4 PM, WITH NO SUNDAY HOURS. HOURS OF CONSTRUCTION MUST BE DOCUMENTED ON A SITE CONSTRUCTION SIGN ALONG WITH THE CONTACT INFORMATION FOR THE GENERAL CONTRACTOR. SAID SIGNAGE MUST BE LOCATED AND APPROVED BY THE CITY ENGINEER OR ASSISTANT CITY MANAGER.



SUBMITTED FOR CONSTRUCTION		REVISION	DATE
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OVERVIEW SITE PLAN	
CRC FUTURE CORP.	
FOR	
HALF PEAK HOLDINGS	
GEAR ROAD, HANSONVILLE ROAD, TESSER DRIVE	
ROCHESTER, NH 03867	
TAX MAP 251, LOT 120 & 121	

BERRY SURVEYING & ENGINEERING

335 SECOND CROWN POINT ROAD

BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 60 FT.

DATE : JANUARY 22, 2018

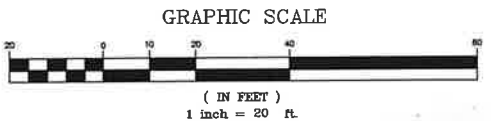
FILE NO. : DB 2017 - 167

STATE OF NEW HAMPSHIRE

KENNETH A. BERRY

REGISTERED PROFESSIONAL ENGINEER

NO. 14243

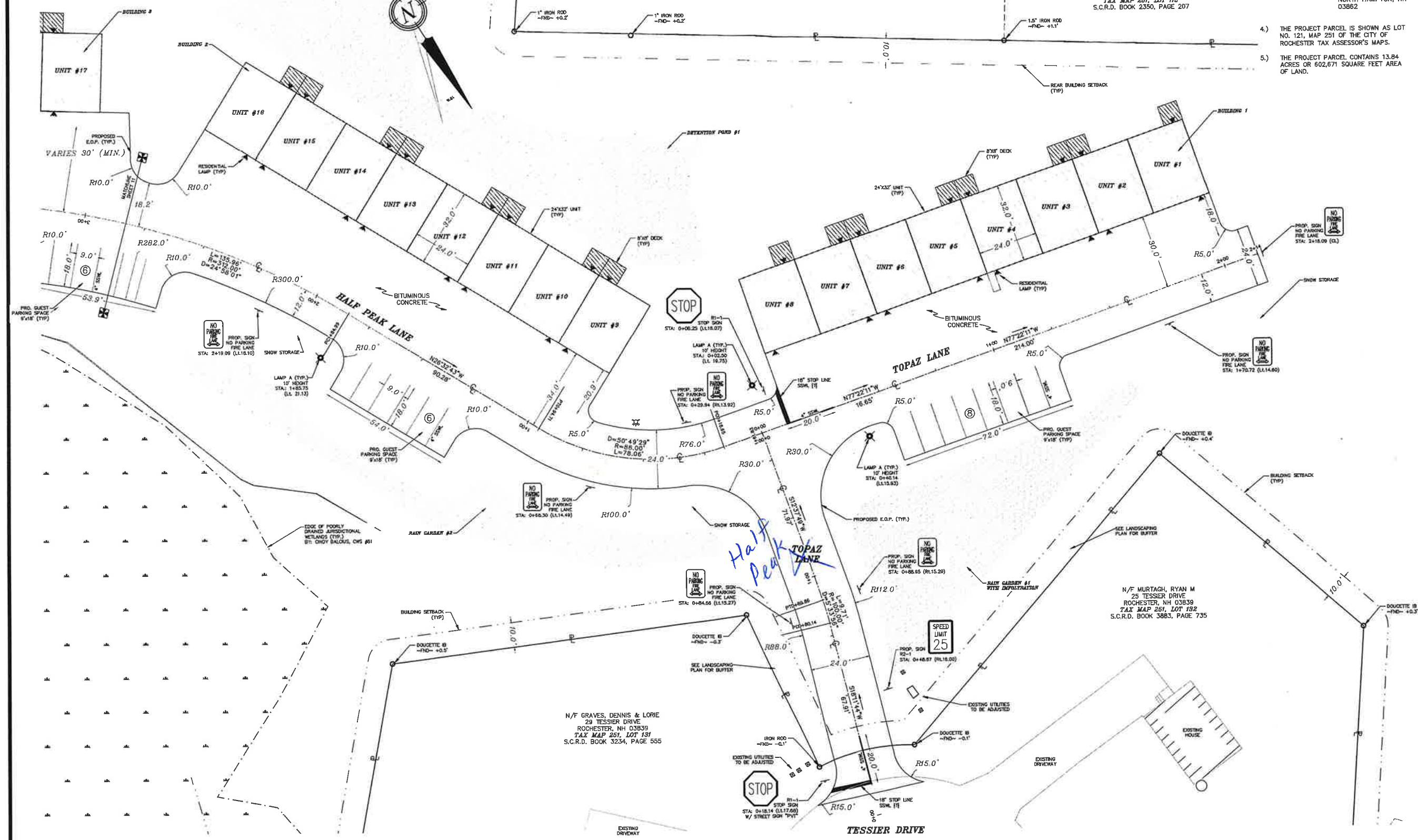


N/F DOLE, BRADLEY R & SUSAN E
125 GEAR ROAD
ROCHESTER, NH 03839
TAX MAP 251, LOT 116
S.C.R.D. BOOK 1238, PAGE 527

N/F MORRIS, SUSAN E & FRANCIS J
125 GEAR ROAD
ROCHESTER, NH 03839
TAX MAP 251, LOT 116
S.C.R.D. BOOK 2350, PAGE 207

NOTES:

- 1.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE DESIGN FOR UNITS 1-18 CONDOMINIUM TOWNHOUSES.
- 2.) CURRENT OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857
- 3.) APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
NORTH HAMPTON, NH 03862
- 4.) THE PROJECT PARCEL IS SHOWN AS LOT NO. 121, MAP 251 OF THE CITY OF ROCHESTER TAX ASSESSOR'S MAPS.
- 5.) THE PROJECT PARCEL CONTAINS 13.84 ACRES OR 602,671 SQUARE FEET AREA OF LAND.

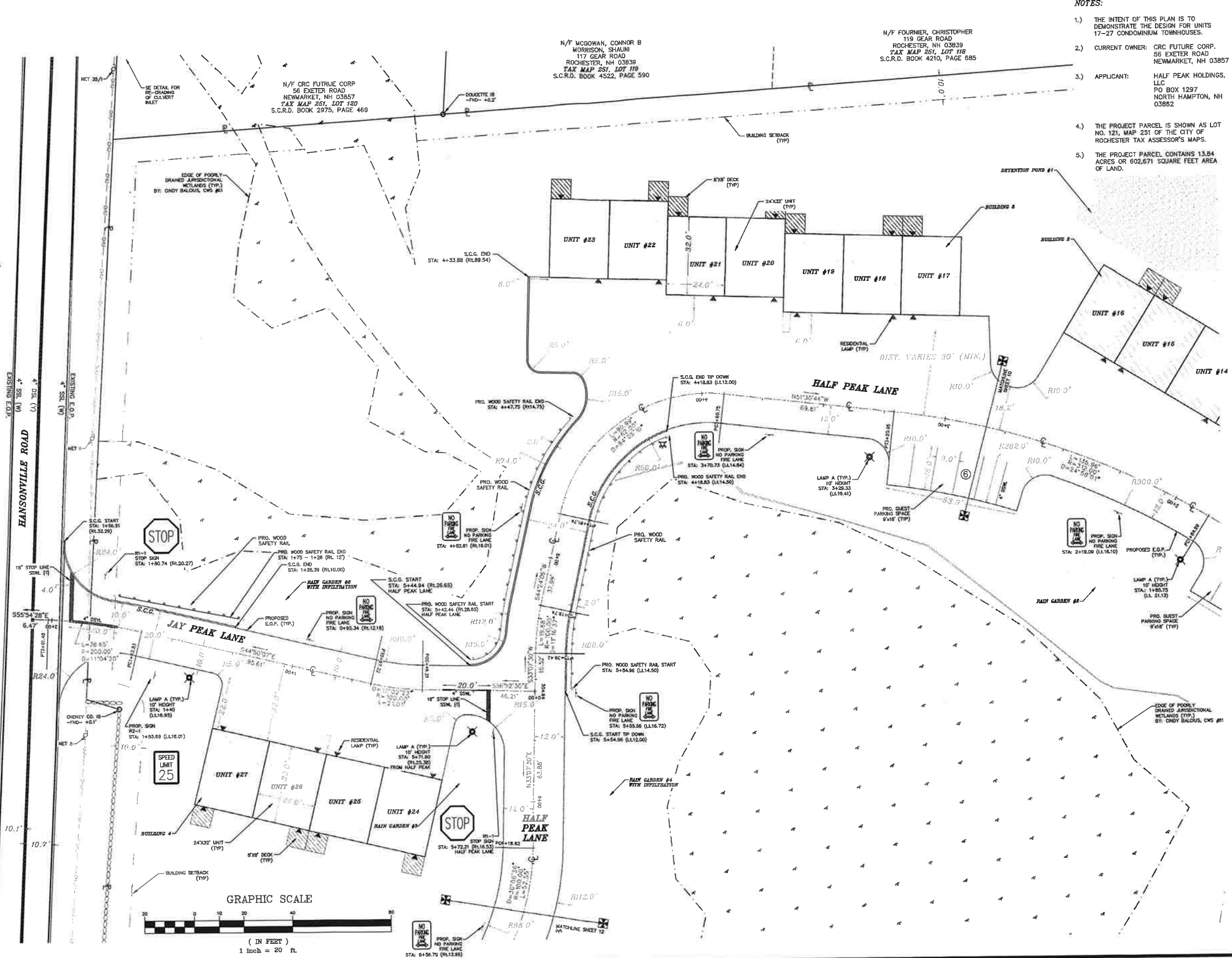
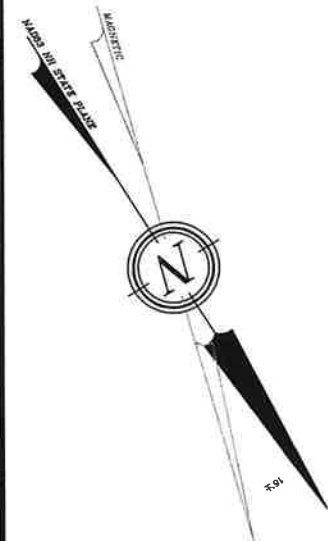


REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER ACT COMMENT
#5b	05-24-2018	MADE WEB RESPONSE
#4	03-02-2018	REVISED PER ACT COMMENT
#3	04-09-2018	SEWER & WATER REVISIONS
#2	03-30-2018	GENERAL PLAN SET
#1		GENERAL PLAN SET

SITE PLAN UNITS 1 - 18	
LAND OF CRC FUTURE CORP.	
FOR HALF PEAK HOLDINGS	
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE	
ROCHESTER, NH 03867	
TAX MAP 251, LOT 120 & 121	

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)352-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167





- NOTES:
- 1.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE DESIGN FOR UNITS 17-27 CONDOMINIUM TOWNHOUSES.
 - 2.) CURRENT OWNER: CRC FUTURE CORP. 56 EXETER ROAD NEWMARKET, NH 03857
 - 3.) APPLICANT: HALF PEAK HOLDINGS, LLC PO BOX 1297 NORTH HAMPTON, NH 03862
 - 4.) THE PROJECT PARCEL IS SHOWN AS LOT NO. 121, MAP 251 OF THE CITY OF ROCHESTER TAX ASSESSOR'S MAPS.
 - 5.) THE PROJECT PARCEL CONTAINS 13.84 ACRES OR 602,671 SQUARE FEET AREA OF LAND.

N/F MCGOWAN, CONNOR B
MORRISON, SHAWN
117 GEAR ROAD
ROCHESTER, NH 03839
TAX MAP 251, LOT 119
S.C.R.D. BOOK 4522, PAGE 590

N/F FOURNIER, CHRISTOPHER
119 GEAR ROAD
ROCHESTER, NH 03839
TAX MAP 251, LOT 118
S.C.R.D. BOOK 4210, PAGE 685

N/F CRC FUTURE CORP
56 EXETER ROAD
NEWMARKET, NH 03857
TAX MAP 251, LOT 120
S.C.R.D. BOOK 2975, PAGE 469

SEE DETAIL FOR
RE-GRADING
OF CULVERT
INLET

EDGE OF POORLY
DRAINED JURISDICTIONAL
WETLANDS (TYP.)
BY: CINDY BALOUS, CHS #61

DIRECTION POND #1

BUILDING #

BUILDING #

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GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

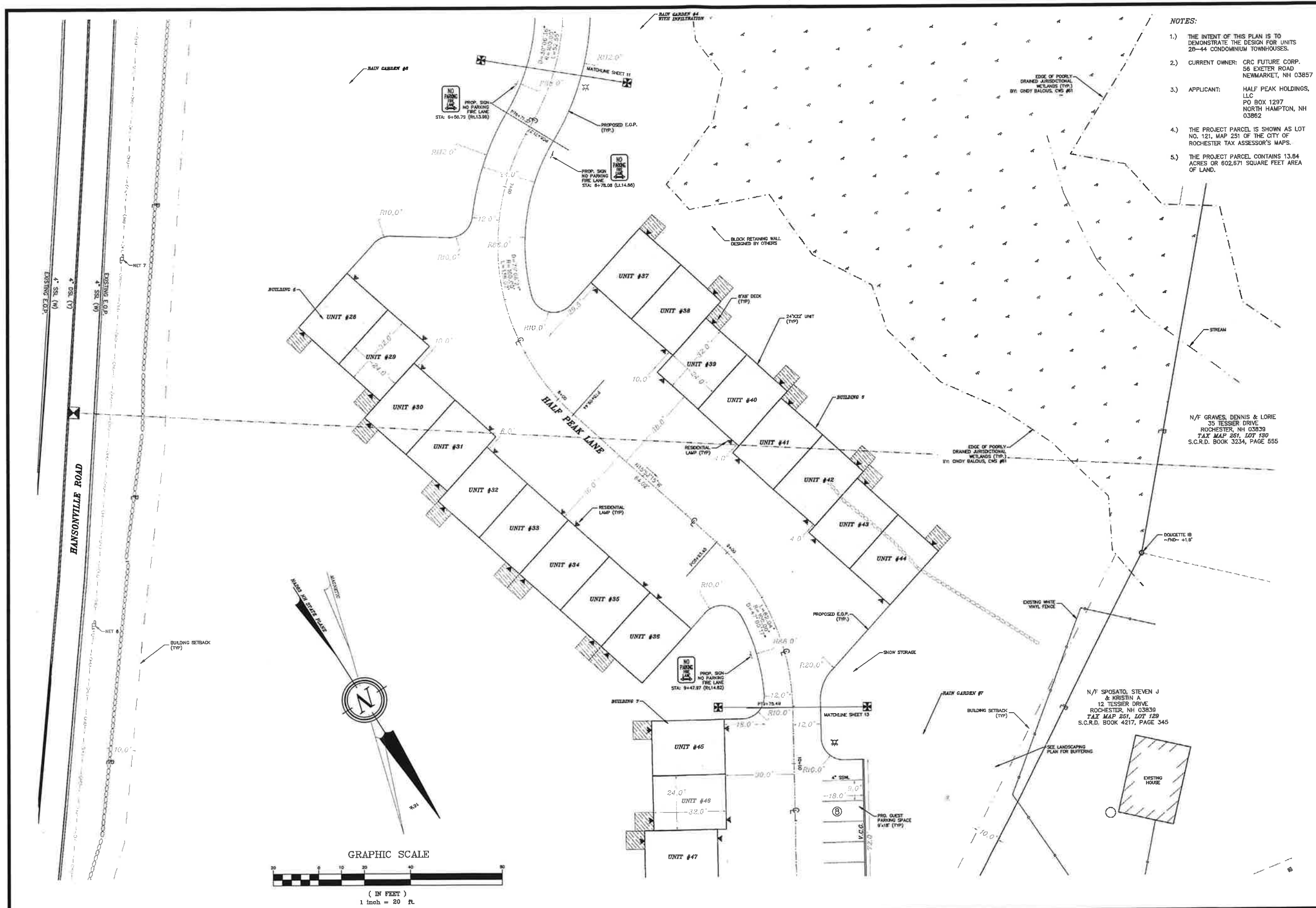
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FIRE LANE
STA: 64-56.79 (RL13.89)

REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER AOT COMMENT
#5b	03-24-2018	REVISED PER AOT COMMENT
#4	03-07-2018	REVISED PER AOT COMMENT
#3	04-09-2018	REVISED PER AOT COMMENT
#2	03-30-2018	REVISED PER AOT COMMENT
#1	03-30-2018	GENERAL PLAN SET

SITE PLAN UNITS 17 - 27
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
REGISTERED PROFESSIONAL ENGINEER



- NOTES:
- 1.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE DESIGN FOR UNITS 28-44 CONDOMINIUM TOWNHOUSES.
 - 2.) CURRENT OWNER: CRC FUTURE CORP. 56 EXETER ROAD NEWMARKET, NH 03857
 - 3.) APPLICANT: HALF PEAK HOLDINGS, LLC PO BOX 1297 NORTH HAMPTON, NH 03862
 - 4.) THE PROJECT PARCEL IS SHOWN AS LOT NO. 121, MAP 251 OF THE CITY OF ROCHESTER TAX ASSESSOR'S MAPS.
 - 5.) THE PROJECT PARCEL CONTAINS 13.84 ACRES OR 602,671 SQUARE FEET AREA OF LAND.

SUBMITTED FOR CONSTRUCTION		REVISION		DATE		DESCRIPTION	
#7	07-30-2018	#6a	06-18-2018				
#6b	05-24-2018	#5b	05-24-2018				
#4	05-02-2018	#4	05-02-2018				
#3	04-09-2018	#3	04-09-2018				
#2	03-30-2018	#2	03-30-2018				
						GENERAL PLAN SET	

SITE PLAN UNITS 28 - 44
LAND OF
CRC FUTURE CORP.
N/F GRAVES, DENNIS & LORIE
35 TESSIER DRIVE
ROCHESTER, NH 03839
TAX MAP 251, LOT 130
S.C.R.D. BOOK 3234, PAGE 555

GEAR ROAD, ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING

335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. = 20 FT.

DATE : JANUARY 22, 2018

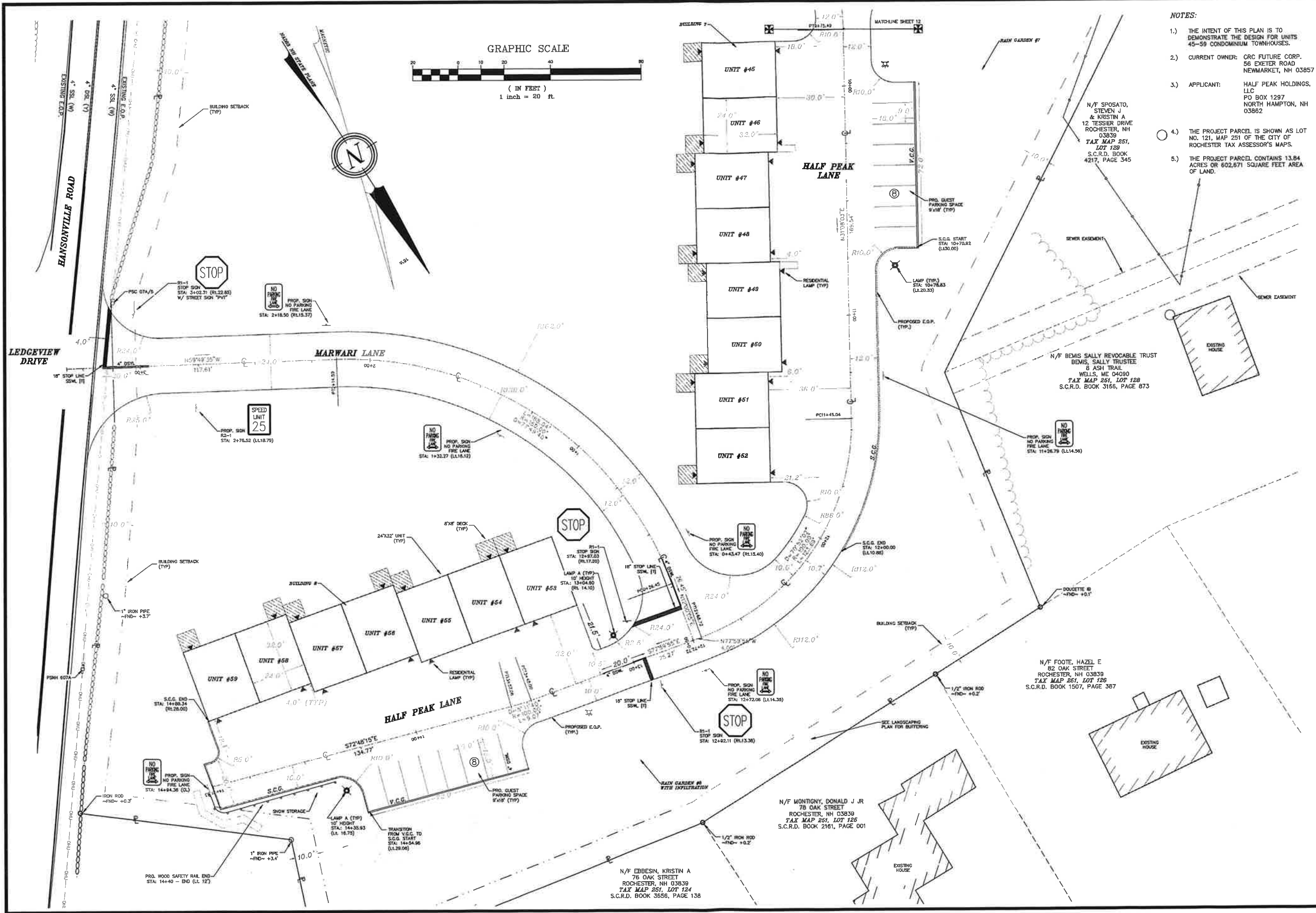
FILE NO. : DB 2017 - 167

STATE OF NEW HAMPSHIRE

KENNETH A. BERRY

PROFESSIONAL ENGINEER

SHEET 12 OF 76



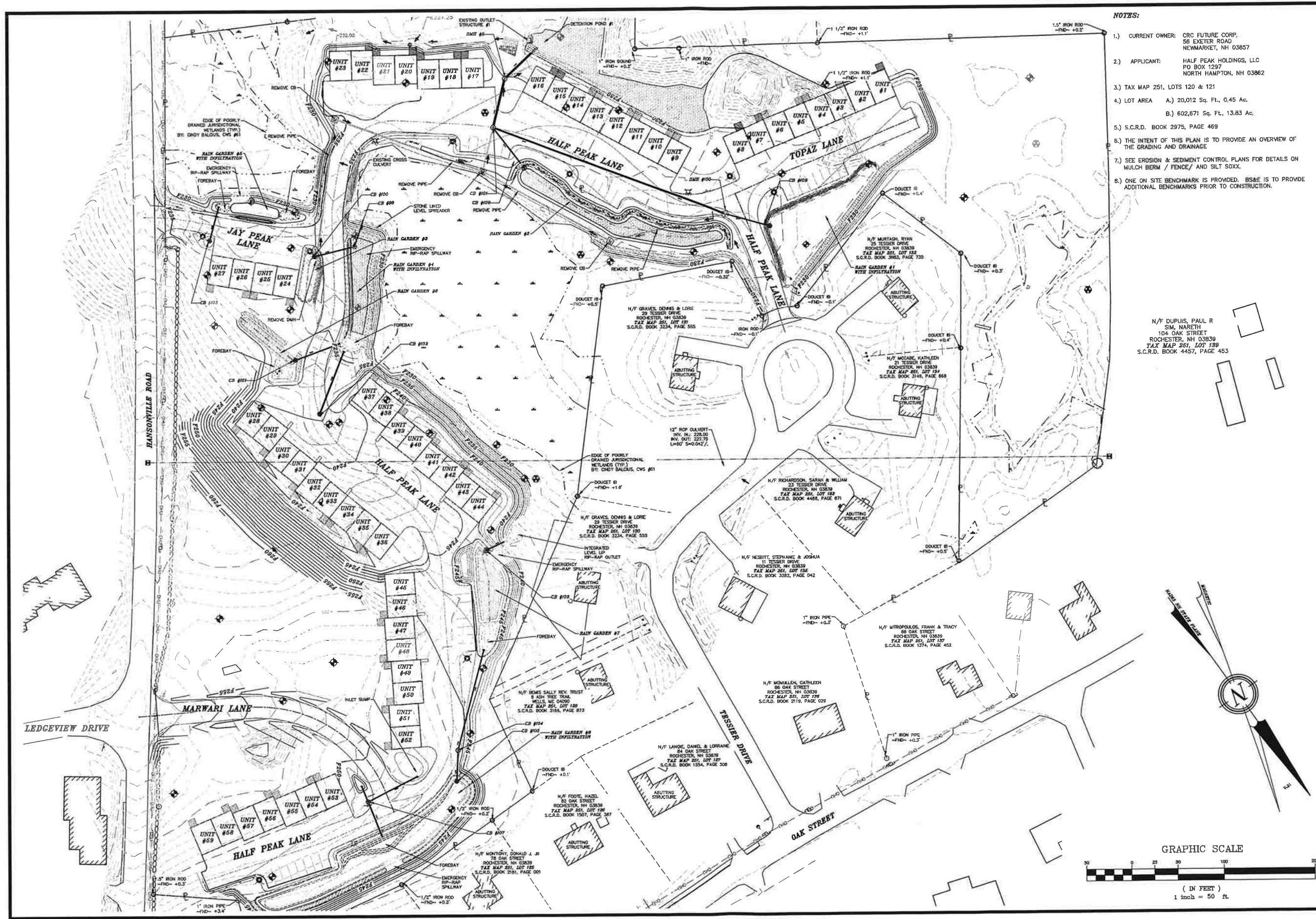
- NOTES:
- 1.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE DESIGN FOR UNITS 45-59 CONDOMINIUM TOWNHOUSES.
 - 2.) CURRENT OWNER: CRC FUTURE CORP. 56 EXETER ROAD NEWMARKET, NH 03857
 - 3.) APPLICANT: HALF PEAK HOLDINGS, LLC PO BOX 1297 NORTH HAMPTON, NH 03862
 - 4.) THE PROJECT PARCEL IS SHOWN AS LOT NO. 121, MAP 251 OF THE CITY OF ROCHESTER TAX ASSESSOR'S MAPS.
 - 5.) THE PROJECT PARCEL CONTAINS 13.84 ACRES OR 602,671 SQUARE FEET AREA OF LAND.

REVISION	DATE	DESCRIPTION
1	07-30-2018	SUBMITTED FOR CONSTRUCTION
2	08-18-2018	REVISED PER AOT COMMENT
3	05-24-2018	REVISED PER AOT COMMENT
4	05-02-2018	AOT REVISIONS
5	04-11-2018	REVISIONS
6	03-30-2018	GENERAL PLAN SET

7	07-30-2018	7
8	08-18-2018	8
9	05-24-2018	9
10	05-02-2018	10
11	04-11-2018	11
12	03-30-2018	12

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE: 1 IN. EQUALS 20 FT.
DATE: JANUARY 22, 2018
FILE NO.: DB 2017 - 167

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
LICENSED PROFESSIONAL ENGINEER
No. 1922



- NOTES:**
- 1.) CURRENT OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857
 - 2.) APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
NORTH HAMPTON, NH 03862
 - 3.) TAX MAP 251, LOTS 120 & 121
 - 4.) LOT AREA A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.
 - 5.) S.C.R.D. BOOK 2975, PAGE 469
 - 6.) THE INTENT OF THIS PLAN IS TO PROVIDE AN OVERVIEW OF THE GRADING AND DRAINAGE
 - 7.) SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON MULCH BERM / FENCE / AND SILT SOXX.
 - 8.) ONE ON SITE BENCHMARK IS PROVIDED. BSAE IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.

N/F DUPUIS, PAUL R
SIM, NARETH
104 OAK STREET
ROCHESTER, NH 03839
TAX MAP 251, LOT 138
S.C.R.D. BOOK 4457, PAGE 453

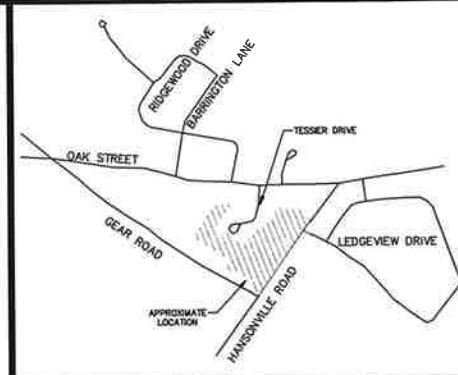
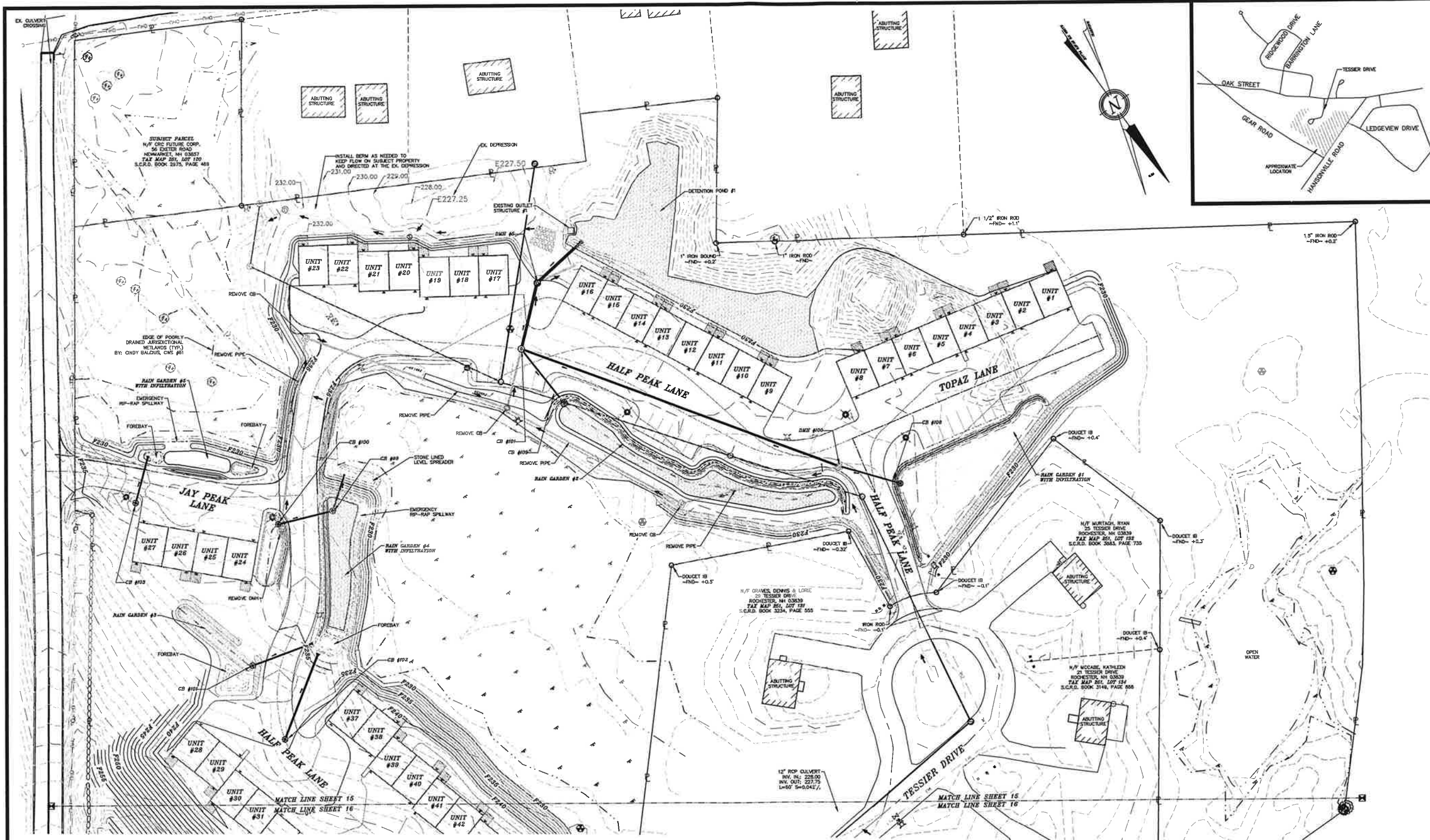
REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER ACT COMMENT
#5b	05-24-2018	REVISED PER ACT COMMENT
#4	05-02-2018	REVISED PER ACT COMMENT
#3	04-09-2018	REVISED PER ACT COMMENT
#2	04-09-2018	REVISED PER ACT COMMENT
#1	03-30-2018	GENERAL PLAN SET

GRADING AND DRAINAGE OVERVIEW PLAN
AND OF
LAND OF
CRC FUTURE CORP.
FOR
HALF PEAK HOLDINGS
GEAR ROAD, RANSONVILLE ROAD, TESSIER DRIVE
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 50 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 1423
LICENSED PROFESSIONAL ENGINEER

SHEET 14 OF 76

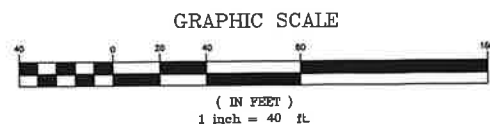


- LEGEND:**
- DRILL HOLE (FND)
 - IRON PIPE (FND)
 - IRON BOUND (FND)
 - UTILITY POLE/GUY WIRE
 - WATER GATE VALVE
 - HYDRANT
 - TREE
 - CATCH BASIN (CB)
 - SEWER MANHOLE (SMH)
 - DRAIN MANHOLE (DMH)

- LEGEND:**
- MATCH LINE
 - NRCS SOIL DELINEATION LINE
 - STONE WALL
 - WETLAND LINE
 - BUILDING SETBACK LINE
 - OVERHEAD UTILITIES LINE
 - EXISTING WATER LINE
 - STRAFFORD COUNTY REGISTRY OF DEEDS
 - TYP.
 - FND
 - PL
 - FOUND
 - PROPERTY LINE
 - TEMPORARY BENCHMARK
 - T.B.M.
 - TH
 - TEST HOLE
 - RAIN GARDEN
 - RIP-RAP
 - BERM

- NOTES:**
- OWNER: CHIC FUTURE CORP.
36 EXETER ROAD
NEWHAMPTON, NH 03857-1009
 - APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1227
HAUPTON, NH 03862
 - A) TAX MAP 251, LOT 120
 - B) TAX MAP 251, LOT 121
 - LOT AREA:
A) 20,012 Sq. Ft. 0.45 Ac.
B) 602,671 Sq. Ft. 13.83 Ac.
 - S.C.R.D.:
A) BOOK 2975, PAGE 489
B) BOOK 2975, PAGE 489

- NOTES CONT.**
- THE INTENT OF THIS PLAN IS TO SHOW THE LOCATION OF BOUNDARIES OF TAX MAP 251, LOT 120 & 121 IN ACCORDANCE WITH AND IN RELATION TO THE CURRENT AND ORIGINAL LEGAL DESCRIPTIONS, AND IS NOT AN ATTEMPT TO DEFINE UNWRITTEN RIGHTS, DETERMINE THE EXTENT OF OWNERSHIP, OR DEFINE THE LIMITS OF TITLE.
 - I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE & BELIEF, THIS PARCEL DOES NOT FALL WITHIN THE FLOOD PLAIN FLOOD HAZARD REF: FEMA COMMUNITY# -330150, MAP# - 33077002040 & 33077002030, DATED: MAY 17, 2005.
 - VERTICAL DATUM BASED ON NAD83 ELEVATIONS. HORIZONTAL COORDINATES BASED ON NAD83 COORDINATES OBTAINED USING TOPCON HIPER SR SURVEY GRADE GPS RECEIVERS.
 - THE BOUNDARY LINES SHOWN ON THIS PLAN ARE THE RESULT OF A CLOSED TRAVERSE PERFORMED BY THIS OFFICE IN NOVEMBER OF 2017, WITH AN ERROR OF CLOSURE OF 1 PART IN 12,264.
 - THE INTENT OF THIS PLAN IS TO SHOW THE EXISTING CONDITIONS ON TAX MAP 251, LOT 120 & 121 AS OF NOVEMBER 2017.
 - SEE SITE SPECIFIC SOILS MAP

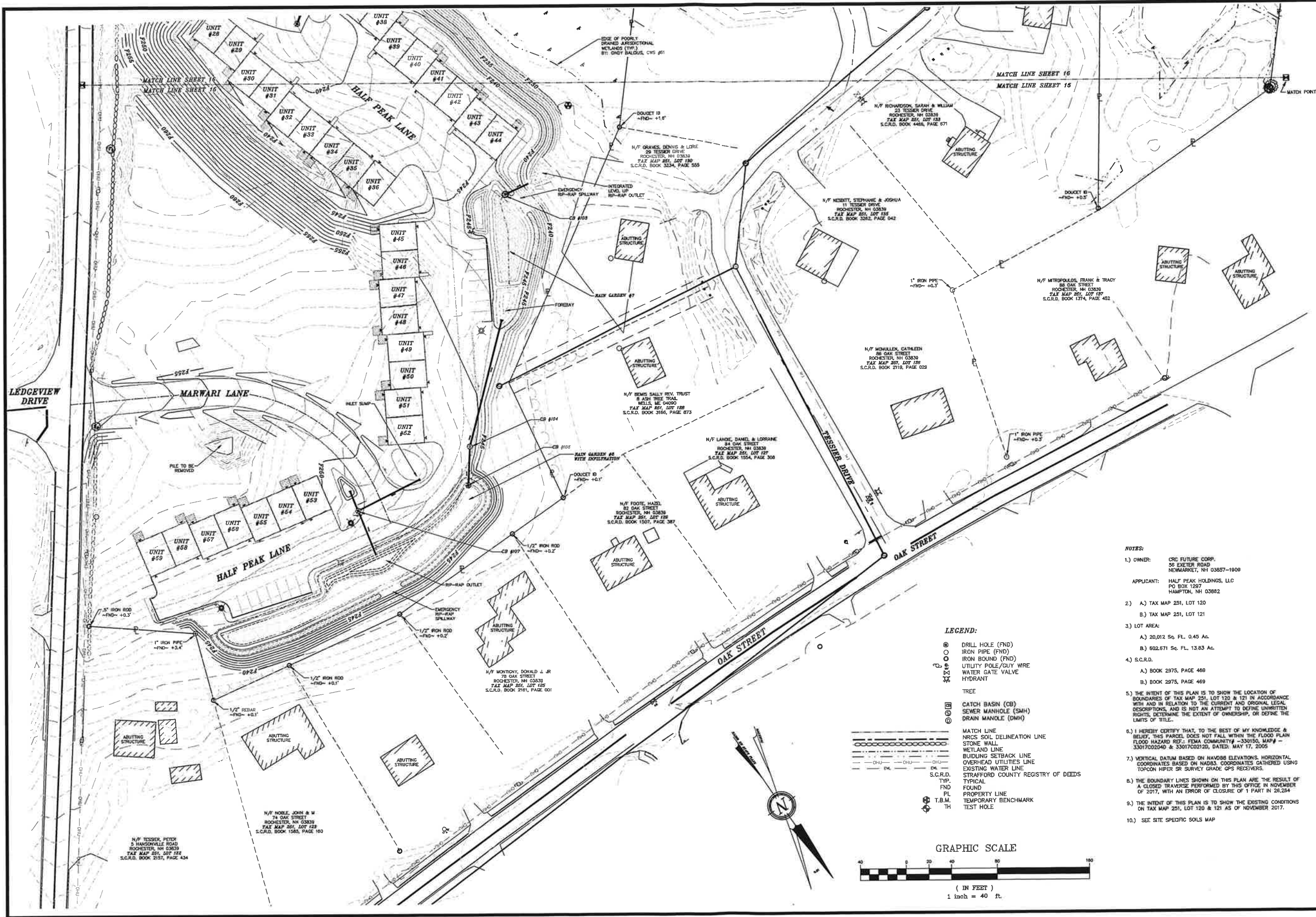


BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 40 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167



GRADING AND DRAINAGE PLAN SOUTH
LAND OF
CHIC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER AOT COMMENT
#5b	05-24-2018	NHDES WHEB RESPONSE
#4	05-02-2018	AOT REVISIONS
#3	04-10-2018	REVISIONS
#2	03-30-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

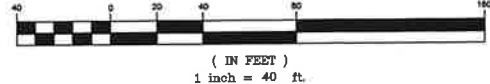


- NOTES:
- 1) OWNER: CRC FUTURE CORP.
35 EXETER ROAD
NEWARK, NH 03857-1909
 - 2) A) TAX MAP 251, LOT 120
B) TAX MAP 251, LOT 121
 - 3) LOT AREA:
A) 20,012 Sq. Ft. 0.45 Ac.
B) 602,671 Sq. Ft. 13.83 Ac.
 - 4) S.C.R.D.
A) BOOK 2975, PAGE 469
B) BOOK 2975, PAGE 469
 - 5) THE INTENT OF THIS PLAN IS TO SHOW THE LOCATION OF BOUNDARIES OF TAX MAP 251, LOT 120 & 121 IN ACCORDANCE WITH AND IN RELATION TO THE CURRENT AND ORIGINAL LEGAL DESCRIPTIONS, AND IS NOT AN ATTEMPT TO DEFINE UNWRITTEN RIGHTS, DETERMINE THE EXTENT OF OWNERSHIP, OR DEFINE THE LIMITS OF TITLE.
 - 6) I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE & BELIEF, THIS PARCEL DOES NOT FALL WITHIN THE FLOOD PLAIN FLOOD HAZARD REF.: FEMA COMMUNITY - 330150, MAP# - 33017002040 & 33017002120, DATED: MAY 17, 2005
 - 7) VERTICAL DATUM BASED ON NAVD83 ELEVATIONS. HORIZONTAL COORDINATES BASED ON NAD83. COORDINATES GATHERED USING TOPCON HIPER SR SURVEY GRADE GPS RECEIVERS.
 - 8) THE BOUNDARY LINES SHOWN ON THIS PLAN ARE THE RESULT OF A CLOSED TRAVERSE PERFORMED BY THIS OFFICE IN NOVEMBER OF 2017, WITH AN ERROR OF CLOSURE OF 1 PART IN 26,254
 - 9) THE INTENT OF THIS PLAN IS TO SHOW THE EXISTING CONDITIONS ON TAX MAP 251, LOT 120 & 121 AS OF NOVEMBER 2017.
 - 10) SEE SITE SPECIFIC SOILS MAP

LEGEND:

- DRILL HOLE (FND)
- IRON PIPE (FND)
- IRON BOUND (FND)
- UTILITY POLE/GUY WIRE
- WATER GATE VALVE
- HYDRANT
- TREE
- CATCH BASIN (CB)
- SEWER MANHOLE (SMH)
- DRAIN MANHOLE (DMH)
- MATCH LINE
- NRCS SOIL DELINEATION LINE
- STONE WALL
- WETLAND LINE
- BUILDING SETBACK LINE
- OVERHEAD UTILITIES LINE
- EXISTING WATER LINE
- STRAFFORD COUNTY REGISTRY OF DEEDS
- TYPICAL
- FND
- PL
- T.B.M.
- TH

GRAPHIC SCALE

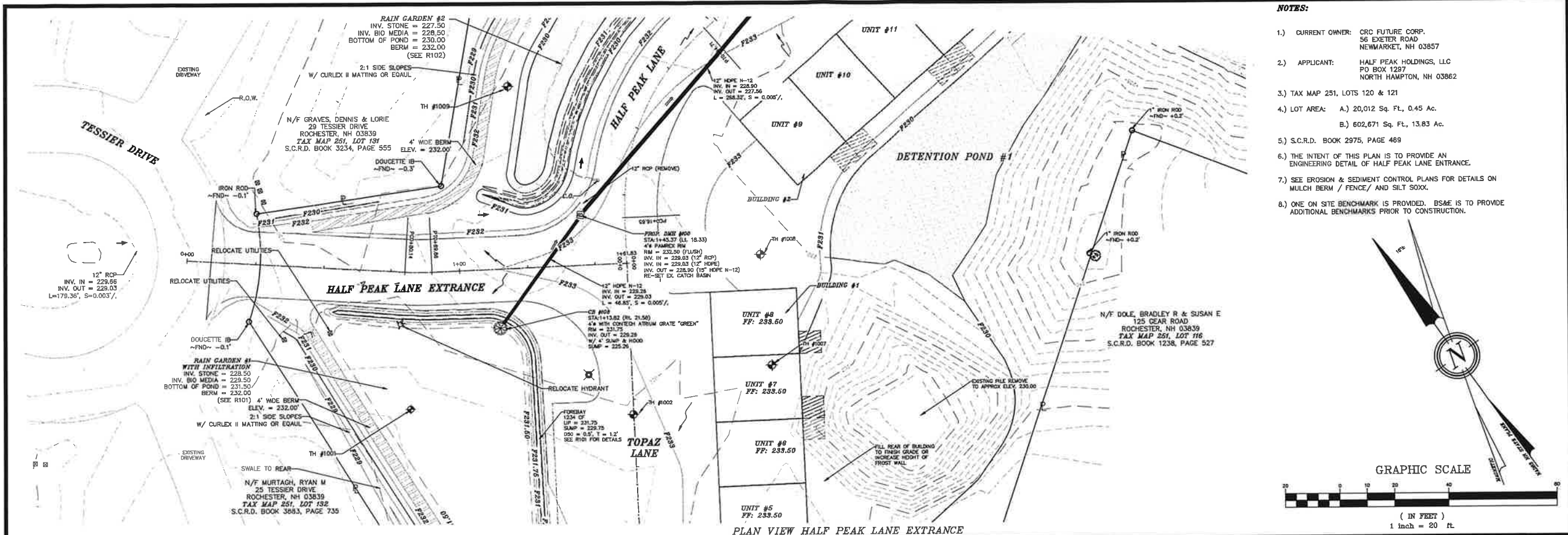


REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER ASST COMMENT
#5b	05-24-2018	NHDES WEB RESPONSE
#4	03-02-2018	REVISIONS
#3	04-02-2018	GENERAL PLAN SET
#2	04-09-2018	SEWER & WATER PLAN SET
#1	03-30-2018	GENERAL PLAN SET

GRADING AND DRAINAGE PLAN NORTH
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSLER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY & SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE: 1 IN. EQUALS 40 FT.
DATE: JANUARY 22, 2018
FILE NO.: DB 2017 - 167





- NOTES:
- 1.) CURRENT OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857
 - 2.) APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1287
NORTH HAMPTON, NH 03862
 - 3.) TAX MAP 251, LOTS 120 & 121
 - 4.) LOT AREA: A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.
 - 5.) S.C.R.D. BOOK 2975, PAGE 489
 - 6.) THE INTENT OF THIS PLAN IS TO PROVIDE AN
ENGINEERING DETAIL OF HALF PEAK LANE ENTRANCE.
 - 7.) SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON
MULCH BERM / FENCE/ AND SILT SOXX.
 - 8.) ONE ON SITE BENCHMARK IS PROVIDED. BS&E IS TO PROVIDE
ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.

REVISION	DATE	DESCRIPTION
1	07-30-2018	SUBMITTED FOR CONSTRUCTION
2	08-16-2018	REVISED PER ACT COMMENT
3	05-24-2018	NHDES WEB RESPONSE
4	05-02-2018	AOT REVISIONS
5	04-11-2018	SEWER & WATER REVISIONS
6	03-30-2018	GENERAL PLAN SET

PLAN & PROFILE HALF PEAK LANE ENTRANCE 0+00 TO END
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
125 GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING

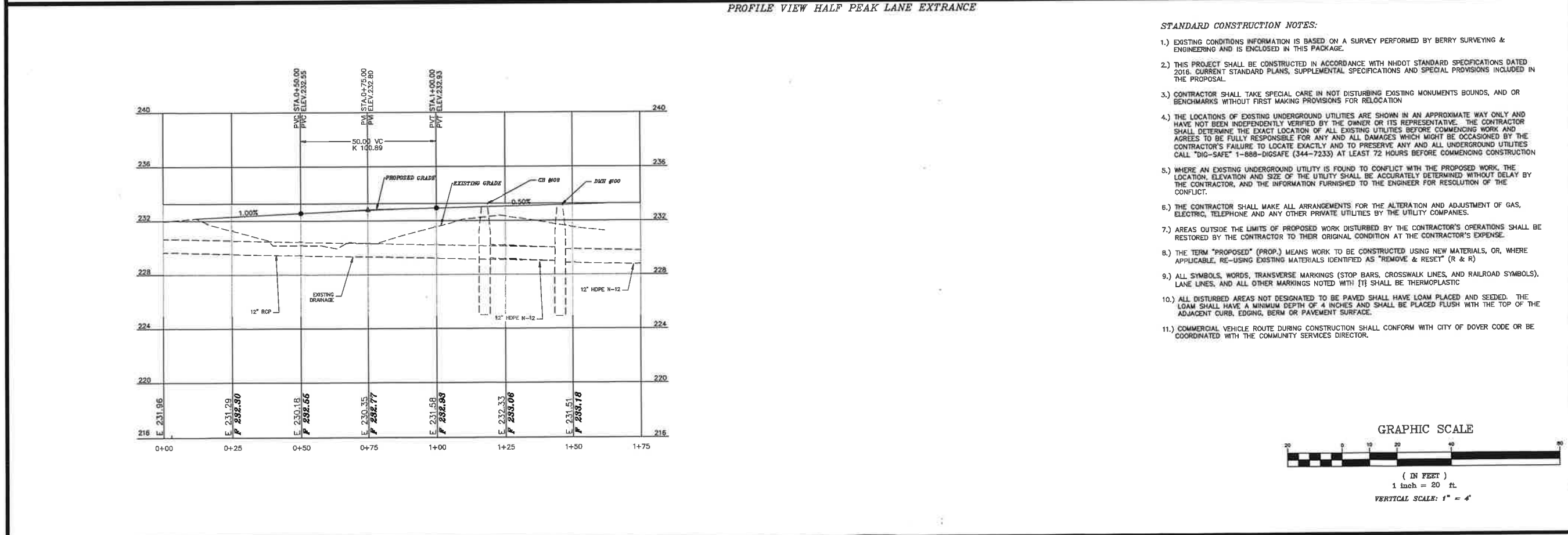
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.

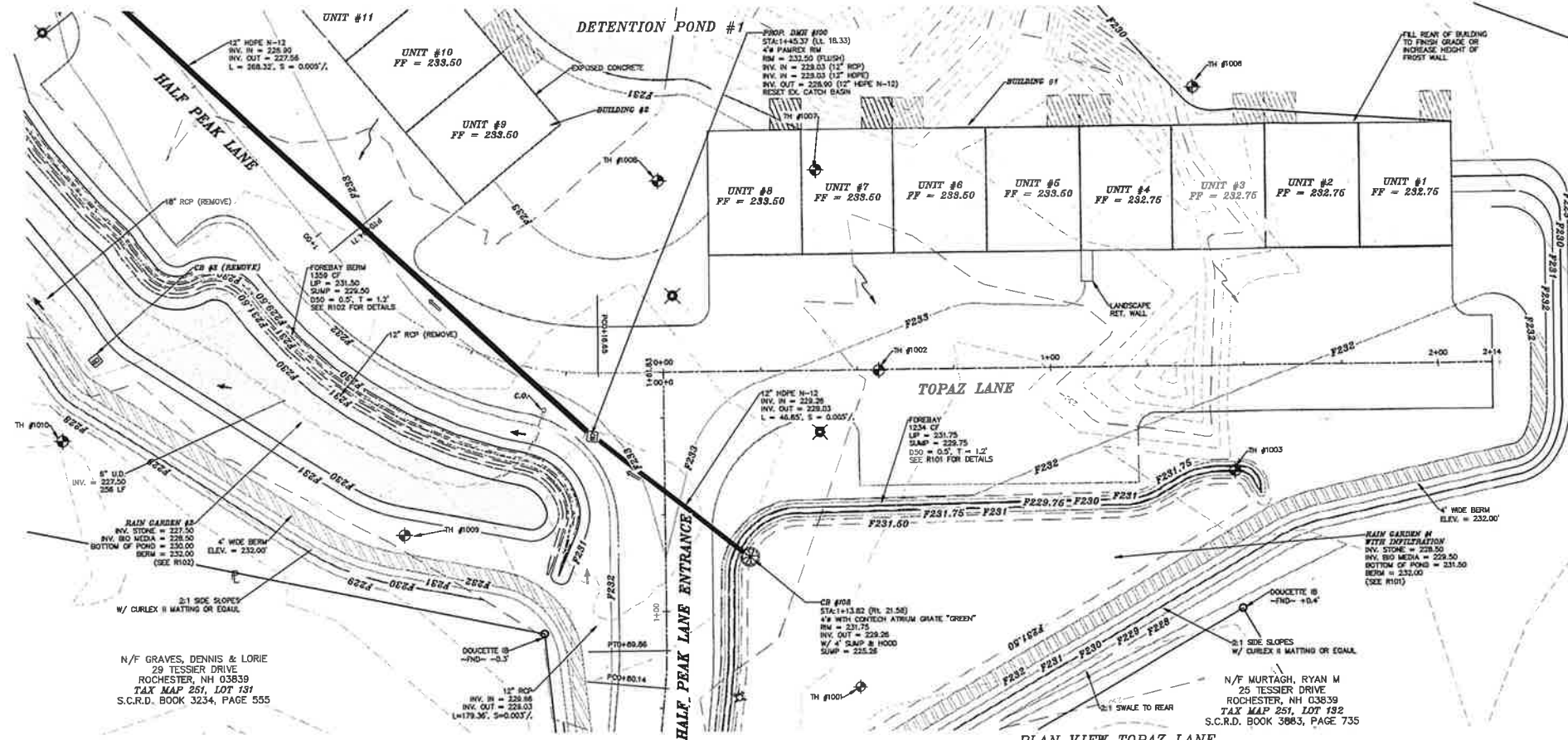
DATE : JANUARY 22, 2018

FILE NO. : DB 2017 - 167

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 1424
LICENSED PROFESSIONAL ENGINEER

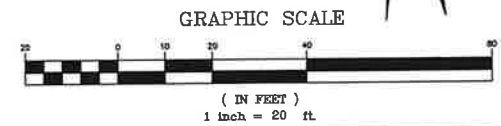


- STANDARD CONSTRUCTION NOTES:
- 1.) EXISTING CONDITIONS INFORMATION IS BASED ON A SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING AND IS ENCLOSED IN THIS PACKAGE.
 - 2.) THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH NHDOT STANDARD SPECIFICATIONS DATED 2016. CURRENT STANDARD PLANS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.
 - 3.) CONTRACTOR SHALL TAKE SPECIAL CARE IN NOT DISTURBING EXISTING MONUMENTS BOUNDS, AND OR BENCHMARKS WITHOUT FIRST MAKING PROVISIONS FOR RELOCATION
 - 4.) THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND TO PRESERVE ANY AND ALL UNDERGROUND UTILITIES CALL "DIG-SAFE" 1-888-DIGSAFE (344-7233) AT LEAST 72 HOURS BEFORE COMMENCING CONSTRUCTION
 - 5.) WHERE AN EXISTING UNDERGROUND UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
 - 6.) THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
 - 7.) AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
 - 8.) THE TERM "PROPOSED" (PROP.) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS, OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE & RESET" (R & R)
 - 9.) ALL SYMBOLS, WORDS, TRANSVERSE MARKINGS (STOP BARS, CROSSWALK LINES, AND RAILROAD SYMBOLS), LANE LINES, AND ALL OTHER MARKINGS NOTED WITH (T) SHALL BE THERMOPLASTIC
 - 10.) ALL DISTURBED AREAS NOT DESIGNATED TO BE PAVED SHALL HAVE LOAM PLACED AND SEED. THE LOAM SHALL HAVE A MINIMUM DEPTH OF 4 INCHES AND SHALL BE PLACED FLUSH WITH THE TOP OF THE ADJACENT CURB, EDGING, BERM OR PAVEMENT SURFACE.
 - 11.) COMMERCIAL VEHICLE ROUTE DURING CONSTRUCTION SHALL CONFORM WITH CITY OF DOVER CODE OR BE COORDINATED WITH THE COMMUNITY SERVICES DIRECTOR.

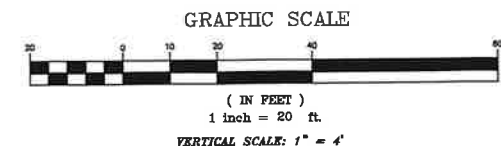
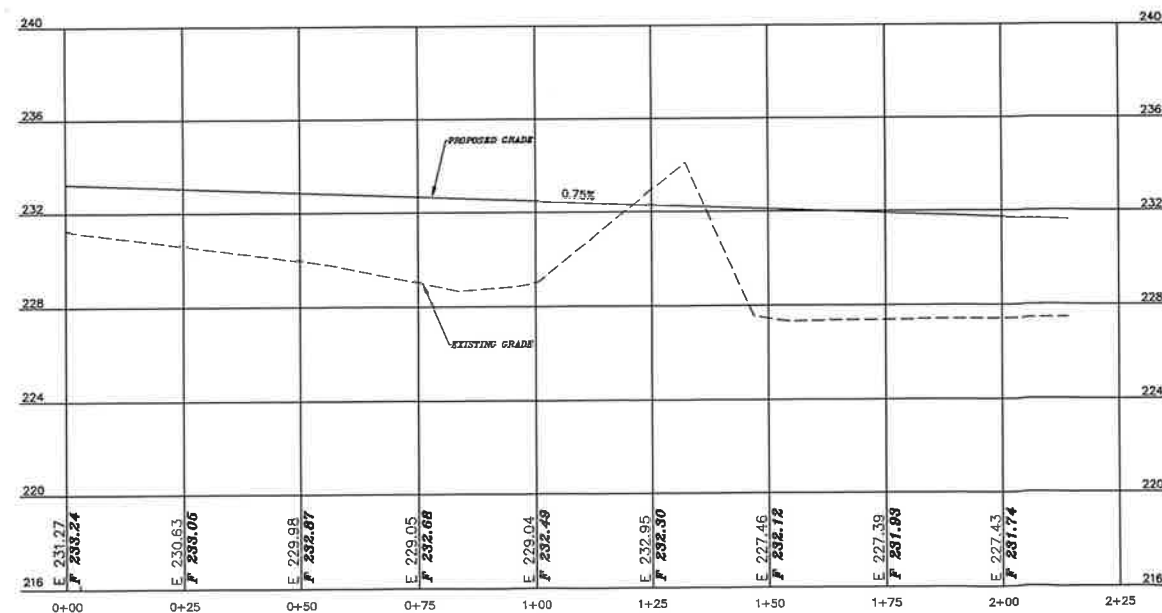


NOTES:

- 1.) CURRENT OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857
- 2.) APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1287
NORTH HAMPTON, NH 03862
- 3.) TAX MAP 251, LOTS 120 & 121
- 4.) LOT AREA: A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.
- 5.) S.C.R.D. BOOK 2975, PAGE 469
- 6.) THE INTENT OF THIS PLAN IS TO PROVIDE AN
ENGINEERING DETAIL OF TOPAZ LANE.
- 7.) SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON
MULCH BERM / FENCE / AND SILT SOXX.
- 8.) ONE ON SITE BENCHMARK IS PROVIDED. BS&E IS TO PROVIDE
ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.



PLAN VIEW TOPAZ LANE
PROFILE VIEW TOPAZ LANE

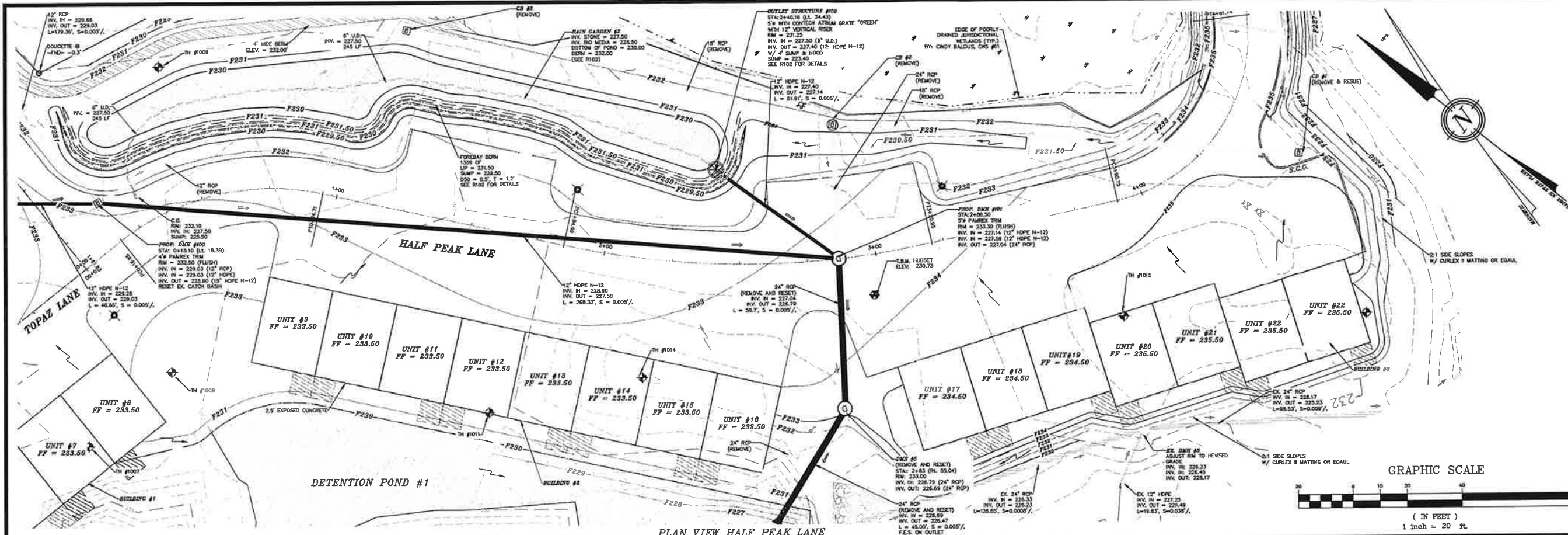


REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER AOT COMMENT
#5b	05-24-2018	NHDES WEBB RESPONSE
#4	05-02-2018	REVISED PER AOT COMMENT
#3	04-11-2018	REVISED PER AOT COMMENT
#2	04-09-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

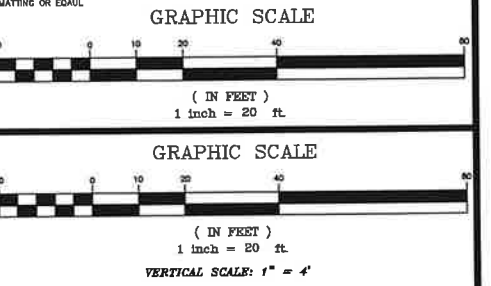
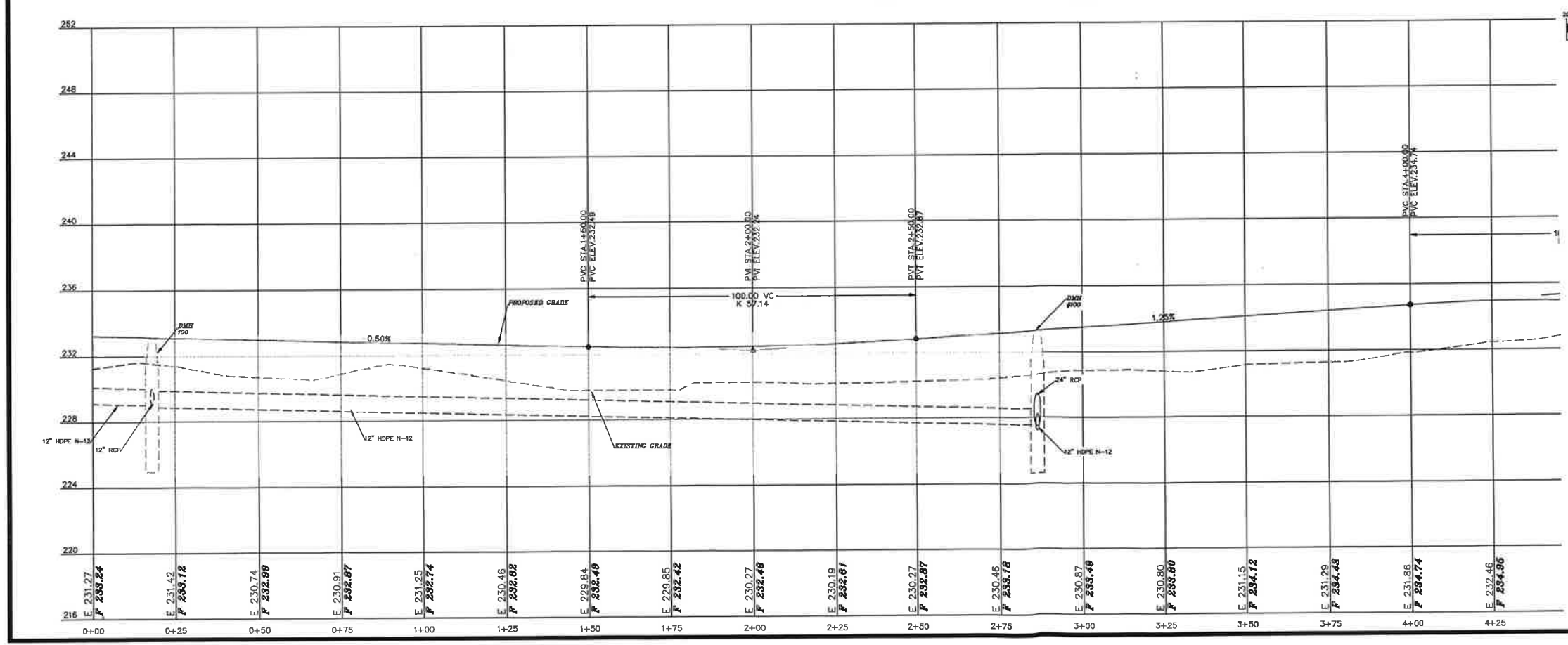
PLAN & PROFILE TOPAZ LANE 0+00 TO 2+14
LAND OF CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603) 332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167

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



PLAN VIEW HALF PEAK LANE
PROFILE VIEW HALF PEAK LANE

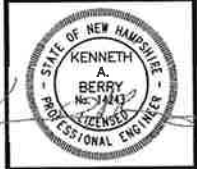


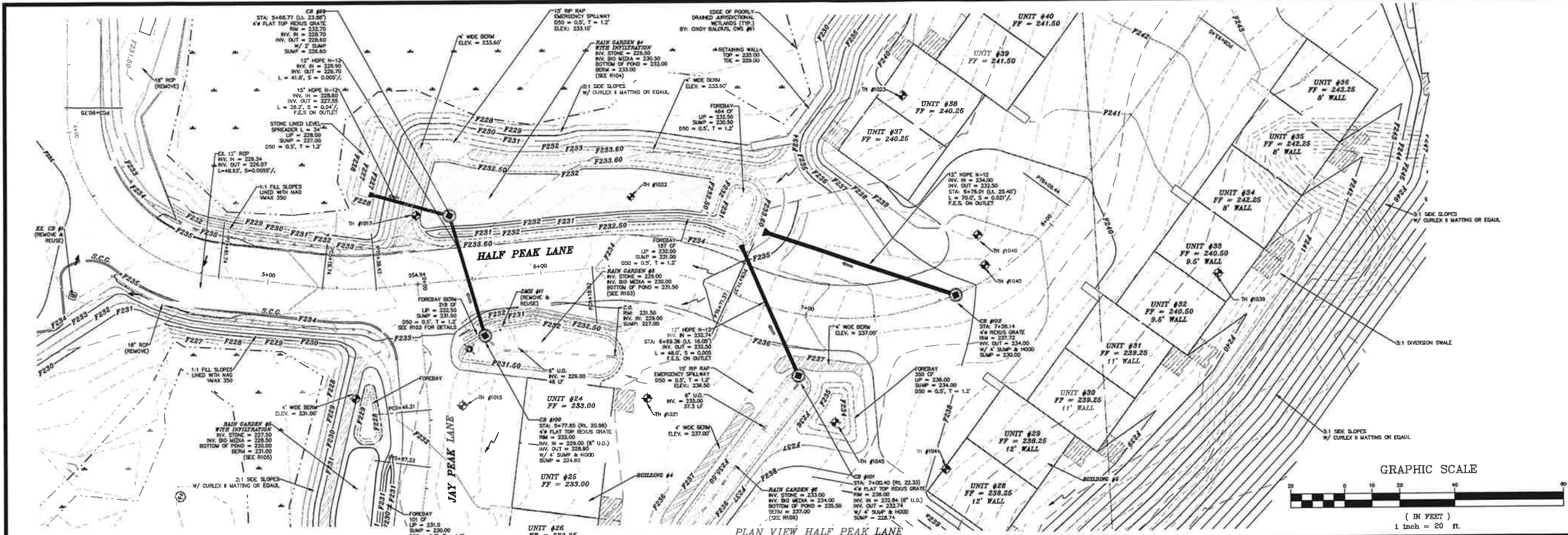
- NOTES:
- 1.) CURRENT OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857
 - 2.) APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
NORTH HAMPTON, NH 03862
 - 3.) TAX MAP 251, LOTS 120 & 121
 - 4.) LOT AREA: A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.
 - 5.) S.C.R.D. BOOK 2975, PAGE 469
 - 6.) THE INTENT OF THIS PLAN IS TO PROVIDE AN ENGINEERING DETAIL OF HALF PEAK LANE.
 - 7.) SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON MULCH BERM / FENCE / AND SILT SOXX.
 - 8.) ONE ON SITE BENCHMARK IS PROVIDED. BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.

REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER A&T COMMENT
#5b	05-24-2018	NOTES WHEN RESPONSE
#4	05-02-2018	NOTES WHEN RESPONSE
#3	04-09-2018	GENERAL PLAN SET
#2	03-30-2018	GENERAL PLAN SET

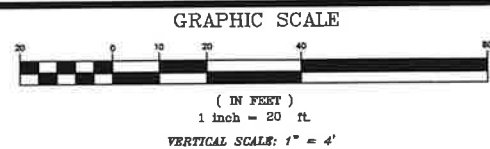
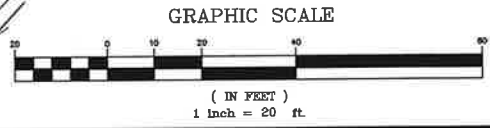
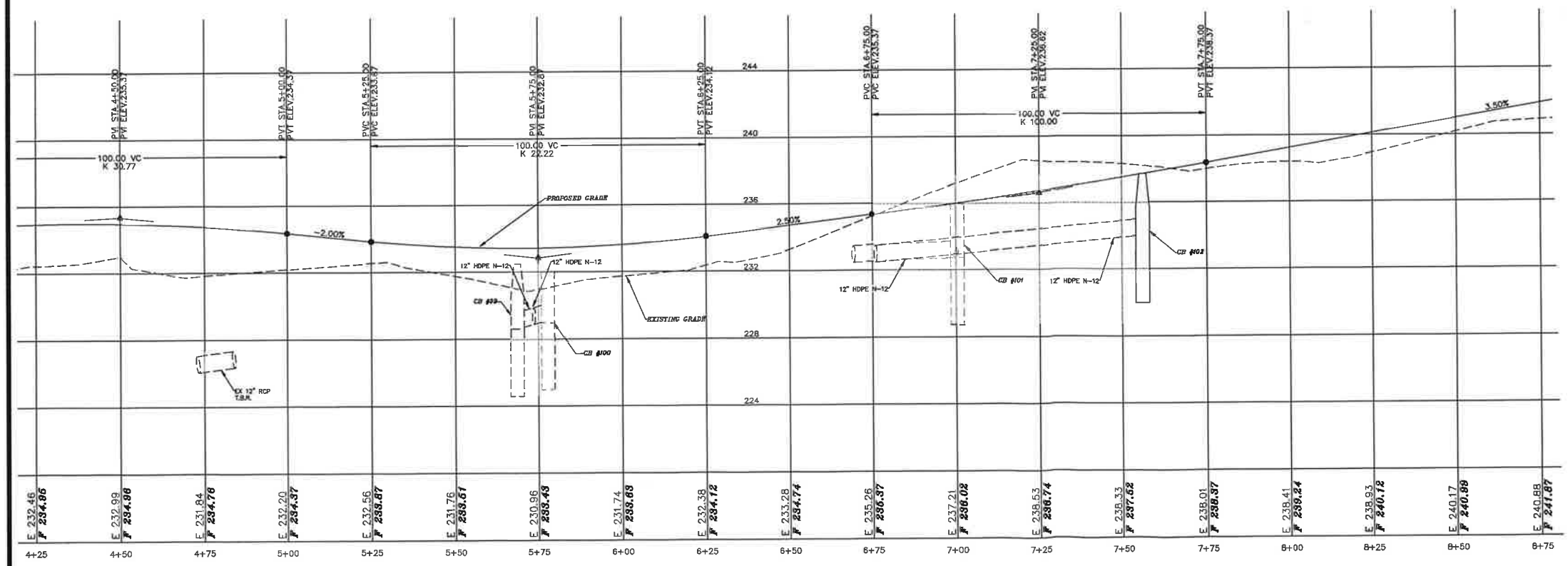
PLAN & PROFILE HALF PEAK LANE 0+00 TO 4+25
CRC FUTURE CORP.
LAND OF
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, JESSIE DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY & SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE: 1 IN. EQUALS 20 FT.
DATE: JANUARY 22, 2018
FILE NO.: DB 2017 - 167





PLAN VIEW HALF PEAK LANE
PROFILE VIEW HALF PEAK LANE



- NOTES:**
- CURRENT OWNER: ORC FUTURE CORP.
55 EXETER ROAD
NEWMARKET, NH 03857
 - APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
NORTH HAMPTON, NH 03862
 - TAX MAP 251, LOTS 120 & 121
 - LOT AREA: A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,871 Sq. Ft., 13.83 Ac.
 - S.C.R.D. BOOK 2975, PAGE 469
 - THE INTENT OF THIS PLAN IS TO PROVIDE AN ENGINEERING DETAIL OF HALF PEAK LANE.
 - SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON MULCH BERM / FENCE / AND SILT SOXX.
 - ONE ON SITE BENCHMARK IS PROVIDED. BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.

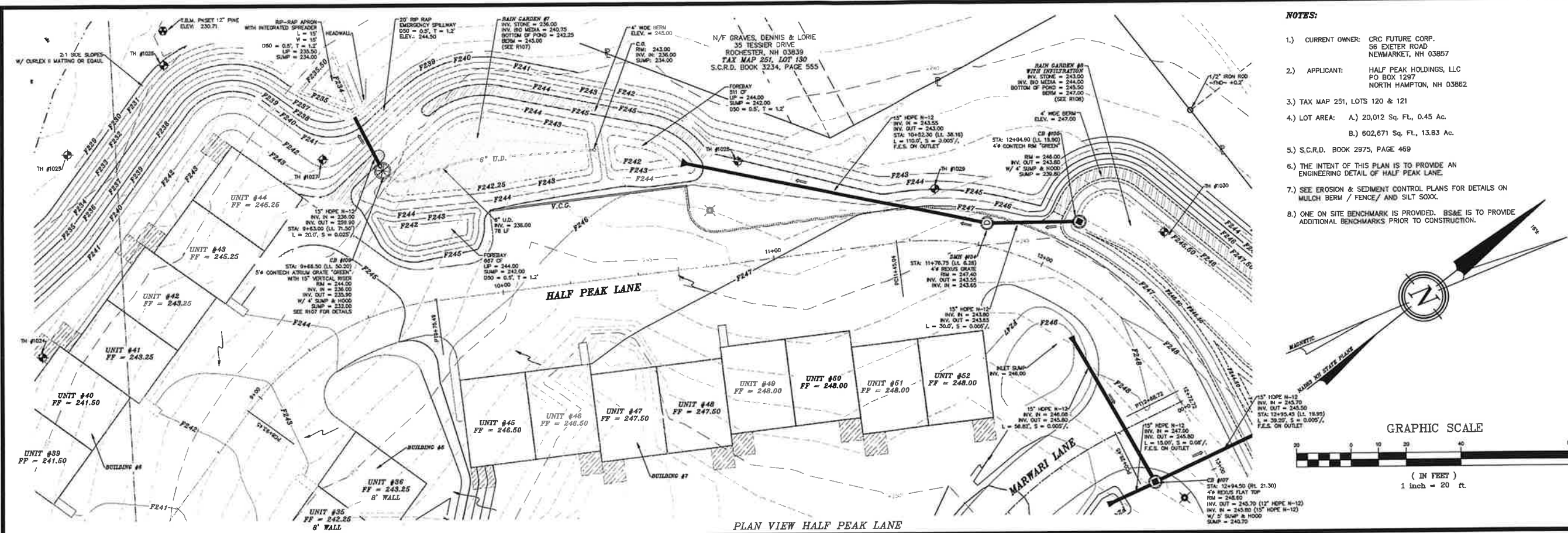
SUBMITTED FOR CONSTRUCTION		REVISION		DATE		DESCRIPTION	
#7	07-30-2018	#6a	06-18-2018				
#6b	05-24-2018	#5b	05-24-2018				
#4	05-02-2018	#4	05-02-2018				
#3	04-09-2018	#3	04-09-2018				
#2	03-30-2018	#2	03-30-2018				
#1		#1					

PLAN & PROFILE HALF PEAK LANE 4+25 TO 8+75

LAND OF
ORC FUTURE CORP.
HALF PEAK HOLDINGS, LLC
GEAR ROAD, ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603) 332-2863
SCALE: 1 IN. EQUALS 20 FT.
DATE: JANUARY 22, 2018
FILE NO.: DB 2017 - 167

SHEET 20 OF 76

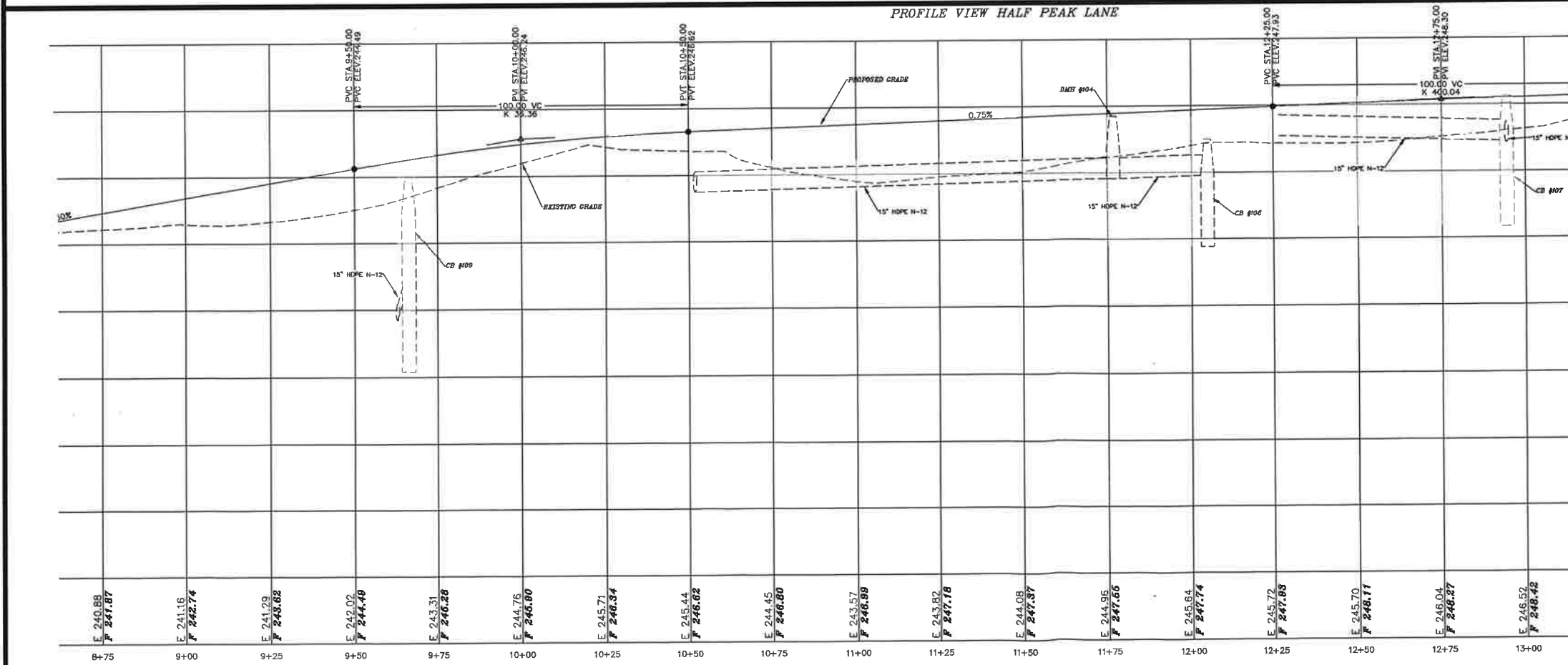


PLAN VIEW HALF PEAK LANE

NOTES:

- 1.) CURRENT OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857
- 2.) APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
NORTH HAMPTON, NH 03862
- 3.) TAX MAP 251, LOTS 120 & 121
- 4.) LOT AREA: A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.
- 5.) S.C.R.D. BOOK 2975, PAGE 469
- 6.) THE INTENT OF THIS PLAN IS TO PROVIDE AN ENGINEERING DETAIL OF HALF PEAK LANE.
- 7.) SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON MULCH BERM / FENCE / AND SILT SOXX.
- 8.) ONE ON SITE BENCHMARK IS PROVIDED. BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.



PROFILE VIEW HALF PEAK LANE

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.
VERTICAL SCALE: 1" = 4'

REVISION

REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER ACT COMMENT
#5b	05-24-2018	NHDES WEB RESPONSE
#4	05-02-2018	AOT REVISIONS
#3	04-11-2018	REVISIONS
#2	03-30-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

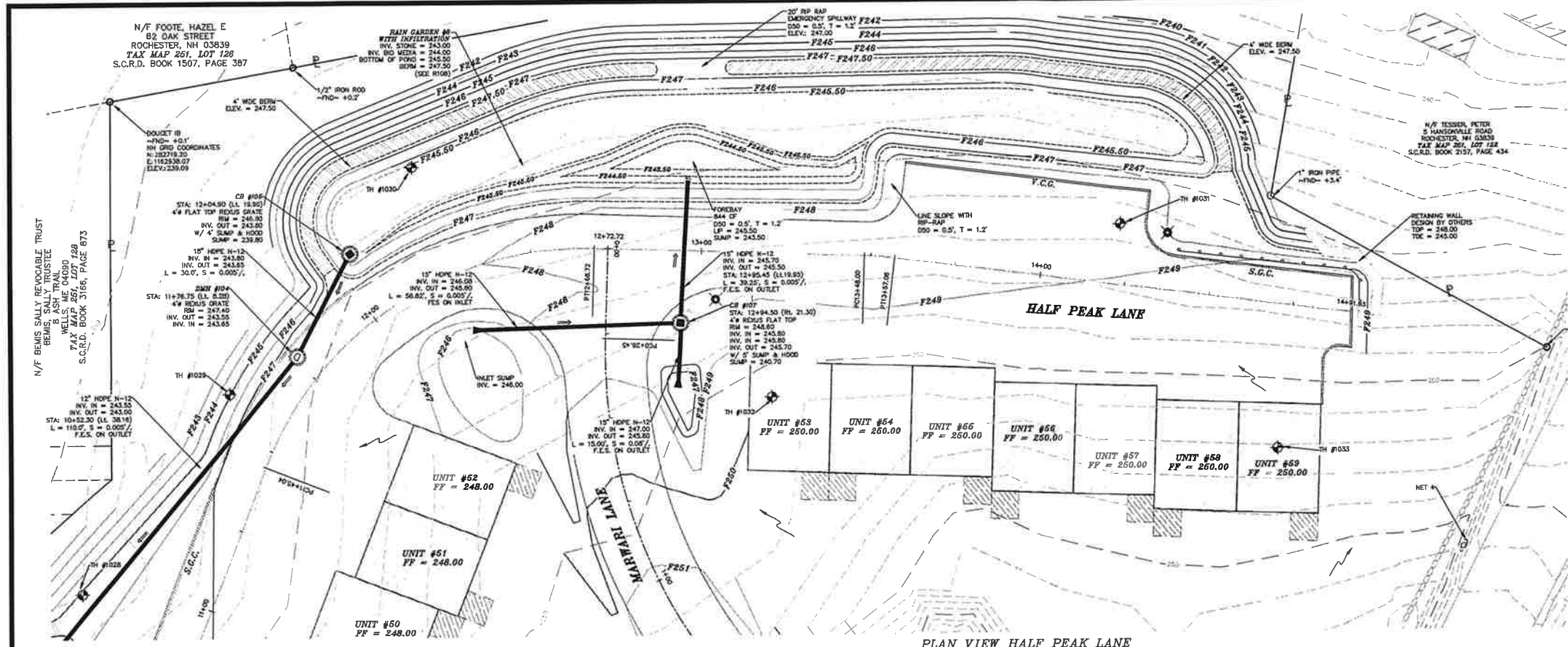
PLAN & PROFILE HALF PEAK LANE 8+75 TO 13+00

LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, RANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

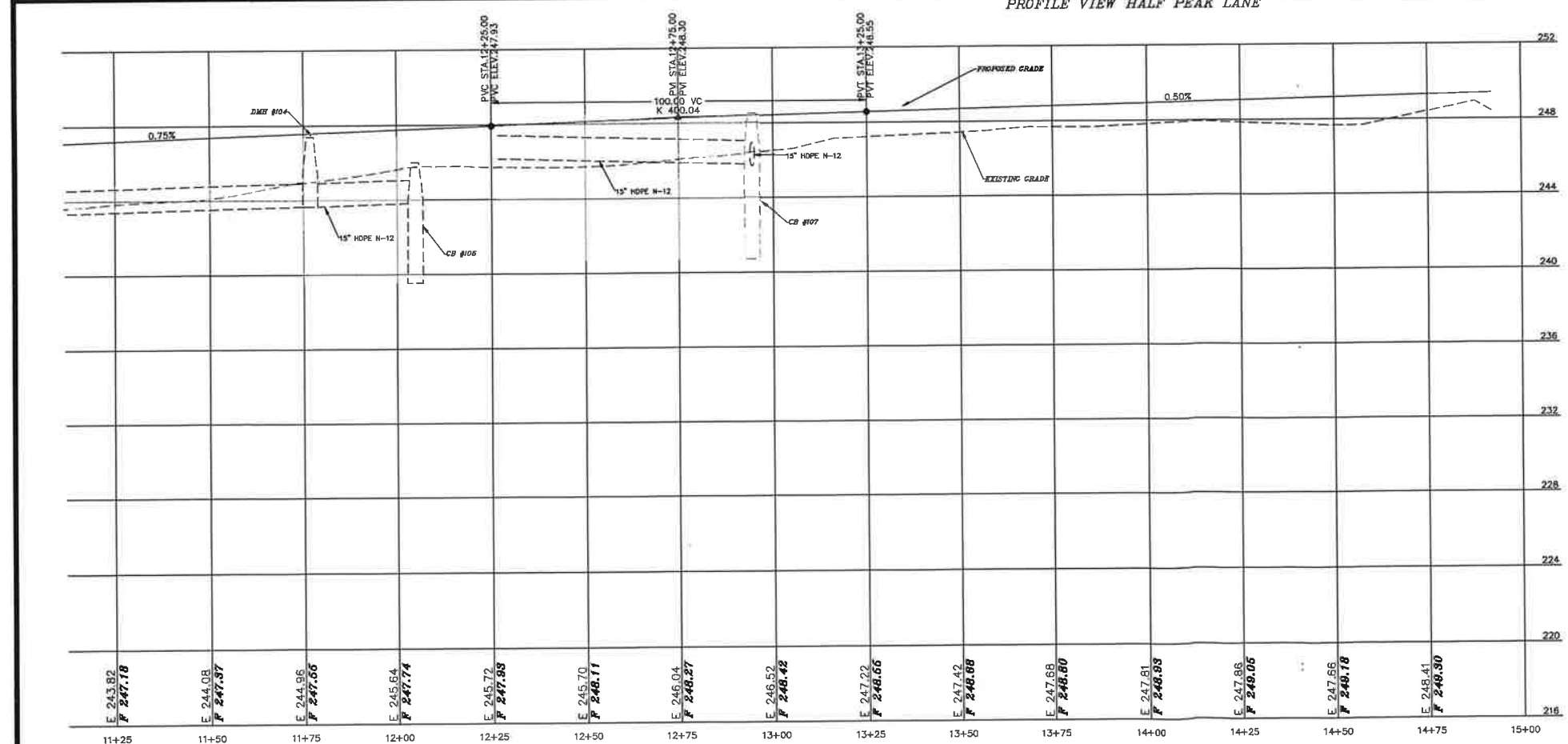
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 1072
REGISTERED PROFESSIONAL ENGINEER

SHEET 21 OF 76

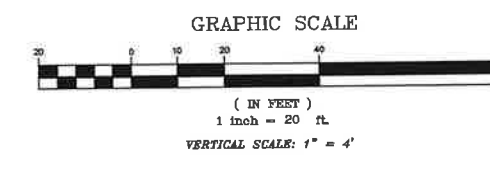
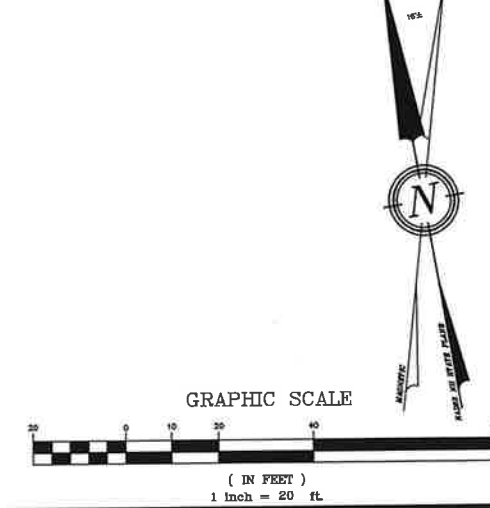


PLAN VIEW HALF PEAK LANE



PROFILE VIEW HALF PEAK LANE

- NOTES:**
- 1.) CURRENT OWNER: CRC FUTURE CORP.
58 EXETER ROAD
NEWMARKET, NH 03857
 - 2.) APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
NORTH HAMPTON, NH 03862
 - 3.) TAX MAP 251, LOTS 120 & 121
 - 4.) LOT AREA: A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.
 - 5.) S.C.R.D. BOOK 2975, PAGE 489
 - 6.) THE INTENT OF THIS PLAN IS TO PROVIDE AN ENGINEERING DETAIL OF HALF PEAK LANE.
 - 7.) SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON MULCH BERM / FENCE / AND SILT SOXX.
 - 8.) ONE ON SITE BENCHMARK IS PROVIDED. BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.



REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER ACT COMMENT
#5b	05-24-2018	REVISED PER ACT COMMENT
#4	05-02-2018	SEWER & WATER REVISIONS
#3	04-10-2018	GENERAL PLAN SET
#2	04-09-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

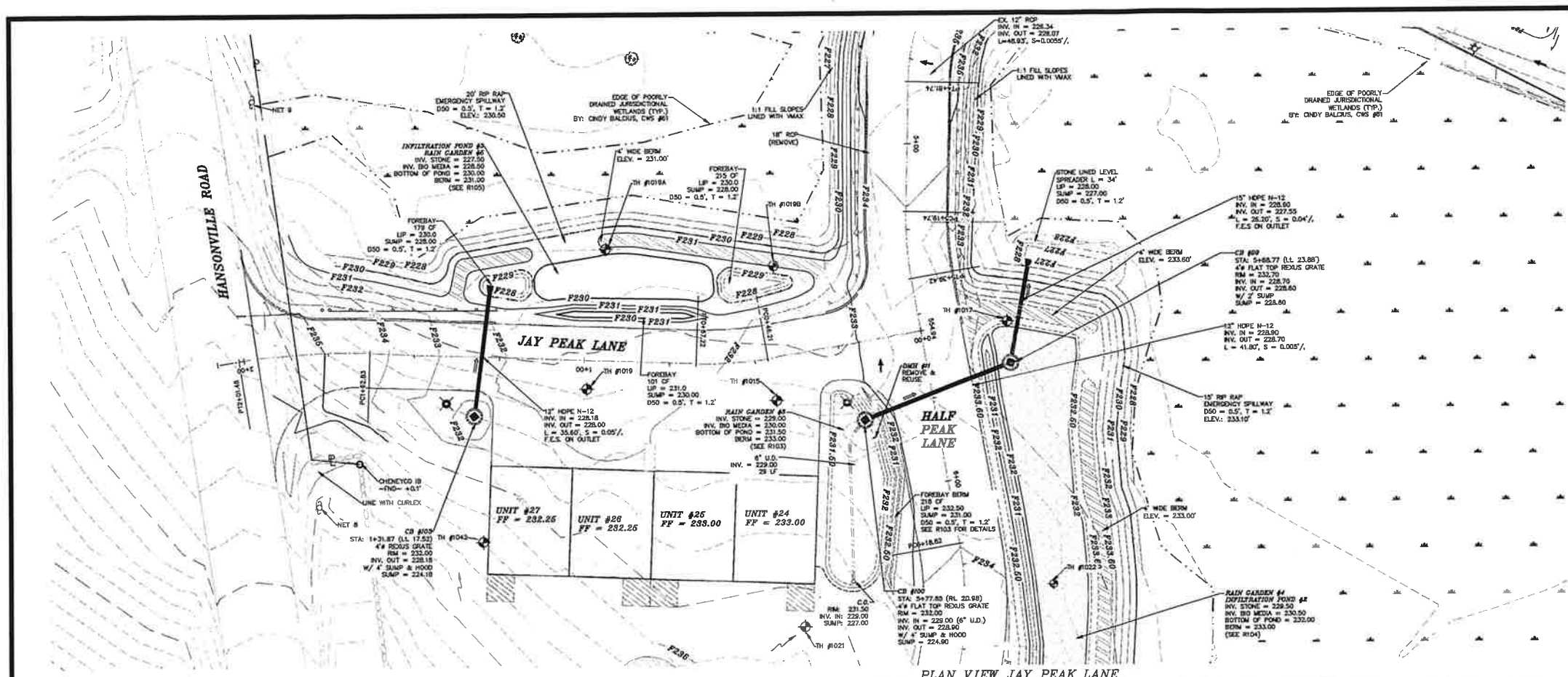
PLAN & PROFILE HALF PEAK LANE 13+00 TO END

LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS, LLC
GEAR ROAD, HANSONVILLE ROAD, TESSER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

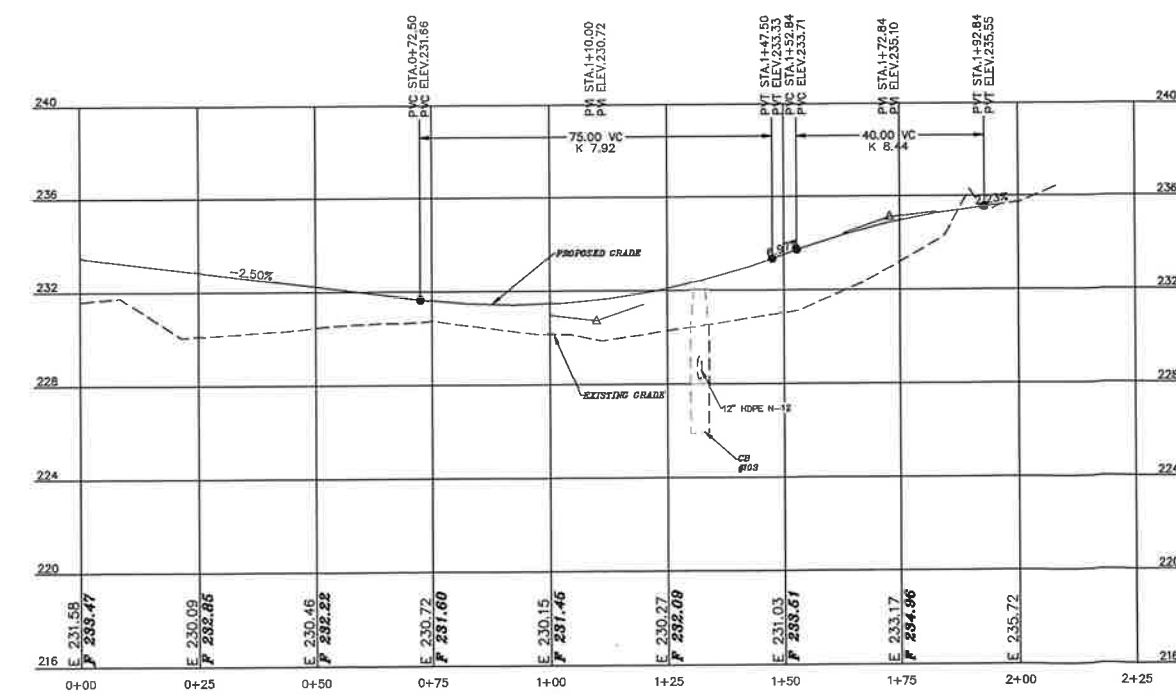
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 1423
LICENSED PROFESSIONAL ENGINEER

SHEET 22 OF 76



PLAN VIEW JAY PEAK LANE
PROFILE VIEW JAY PEAK LANE



NOTES:

- 1.) CURRENT OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEW MARKET, NH 03857
- 2.) APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
NORTH HAMPTON, NH 03862
- 3.) TAX MAP 251, LOTS 120 & 121
- 4.) LOT AREA: A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.
- 5.) S.C.R.D. BOOK 2975, PAGE 469
- 6.) THE INTENT OF THIS PLAN IS TO PROVIDE AN
ENGINEERING DETAIL OF JAY PEAK LANE.
- 7.) SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON
MULCH BERM / FENCE / AND SILT SOXX.
- 8.) ONE ON SITE BENCHMARK IS PROVIDED. BS&E IS TO PROVIDE
ADDITIONAL BENCHMARK PRIOR TO CONSTRUCTION.

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.
VERTICAL SCALE: 1" = 4'

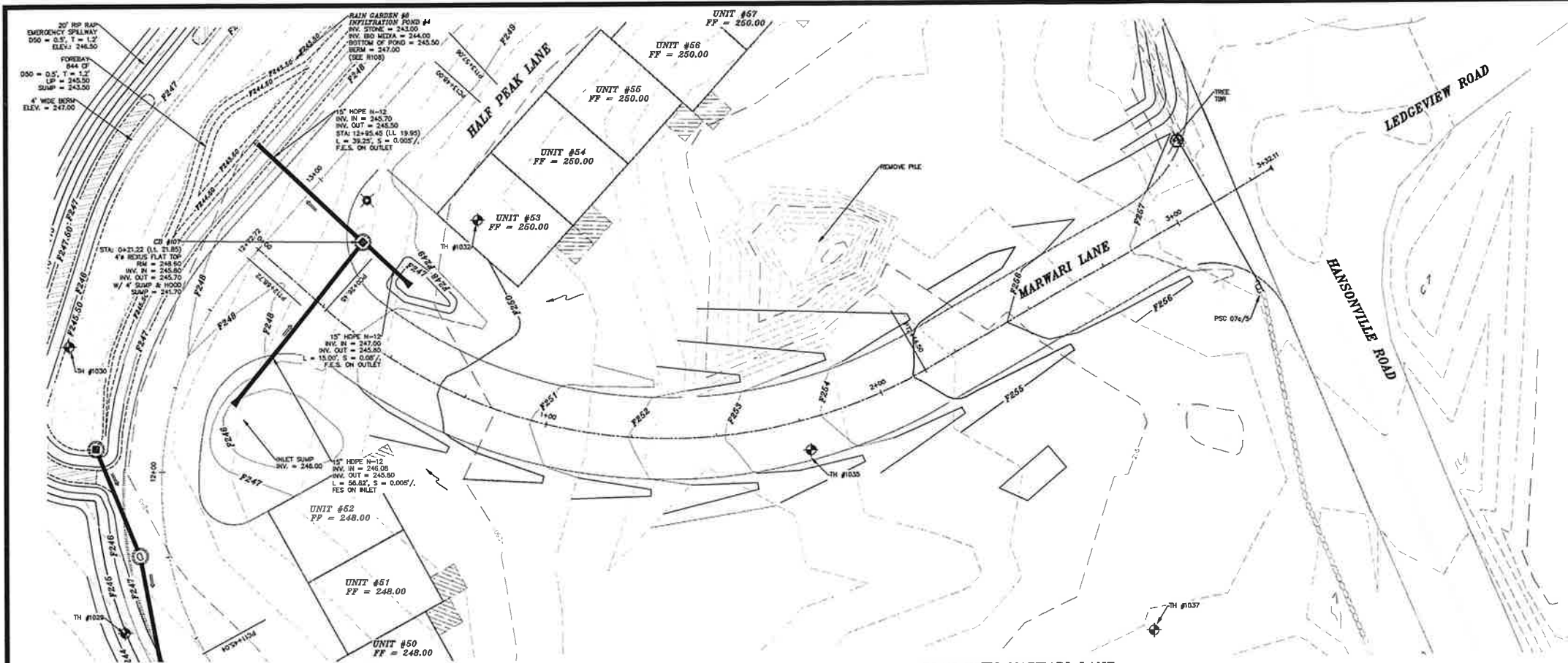
REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6	06-18-2018	REVISED PER ACT COMMENT
#5	05-24-2018	REVISED PER ACT COMMENT
#4	03-11-2018	REVISED PER ACT COMMENT
#3	04-09-2018	GENERAL PLAN SET
#2	03-30-2018	GENERAL PLAN SET

PLAN & PROFILE JAY PEAK LANE 0+00 TO END
AND OF
LAND OF
CRC FUTURE CORP.
FOR
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

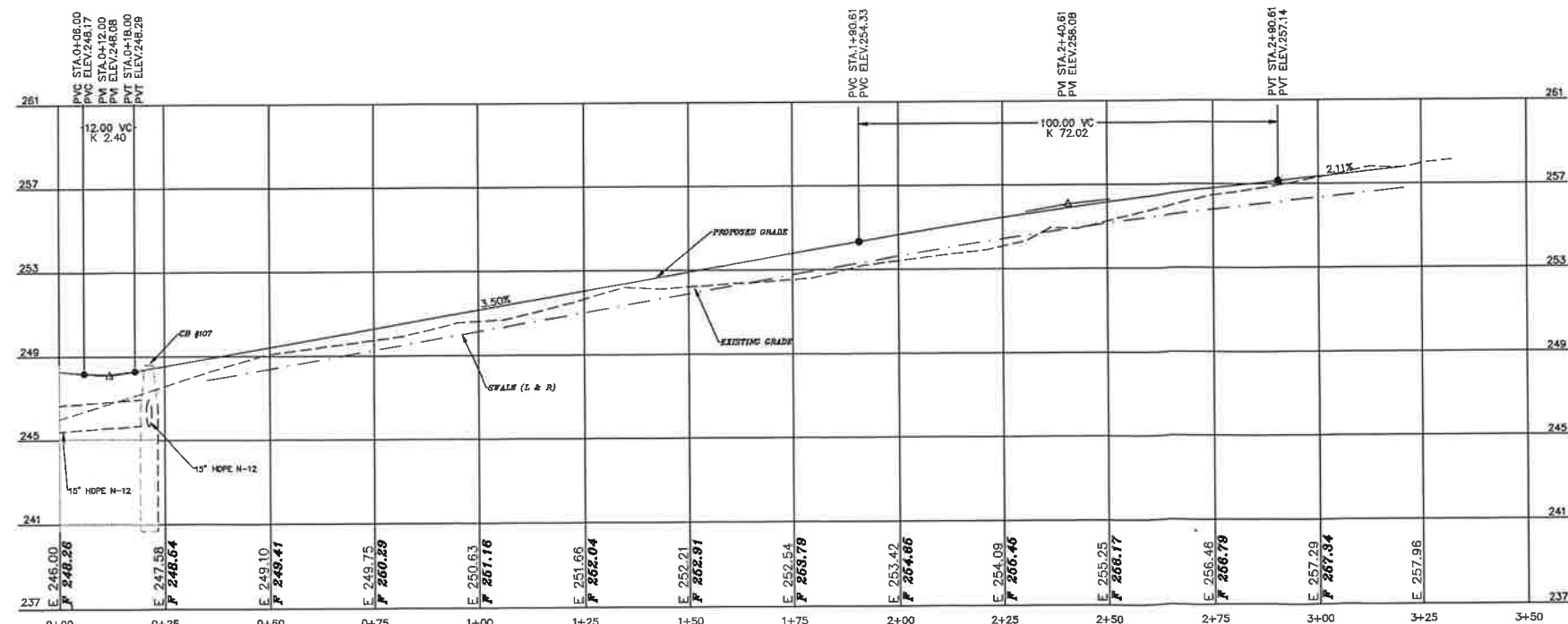
BERRY & SONS SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14749
LICENSED PROFESSIONAL ENGINEER

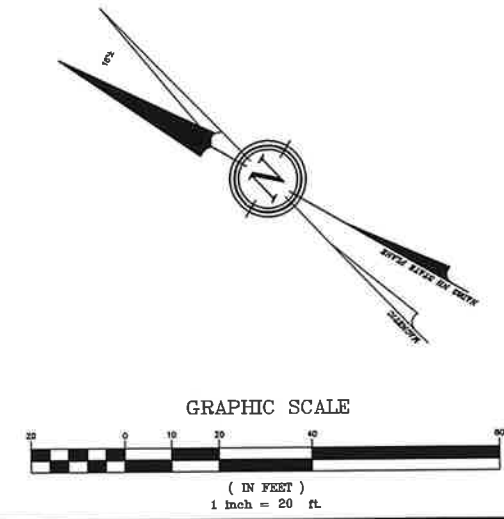
SHEET 23 OF 76



PLAN VIEW MARWARI LANE
PROFILE VIEW MARWARI LANE



- NOTES:
- 1) CURRENT OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857
 - 2) APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
NORTH HAMPTON, NH 03862
 - 3) TAX MAP 251, LOTS 120 & 121
 - 4) LOT AREA: A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.
 - 5) S.C.R.D. BOOK 2975, PAGE 469
 - 6) THE INTENT OF THIS PLAN IS TO PROVIDE AN OVERVIEW OF
ENGINEERING DETAIL OF MARWARI LANE.
 - 7) SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON
MULCH BERM / FENCE / AND SILT SOXX.
 - 8) ONE ON SITE BENCHMARK IS PROVIDED. BSM# IS TO PROVIDE
ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.



REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER AOT COMMENT
#5b	05-24-2018	NOTES W/RE RESPONSE
#4	05-02-2018	AOT REVISIONS
#3	04-10-2018	GENERAL PLAN SET
#2	04-09-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

PLAN & PROFILE MARWARI LANE 0+00 TO END
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSENVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167



FILTER MEDIA MIXTURES			
Component Material	Percent of Mixture by Volume	Gradation of material	
		Sieve No.	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

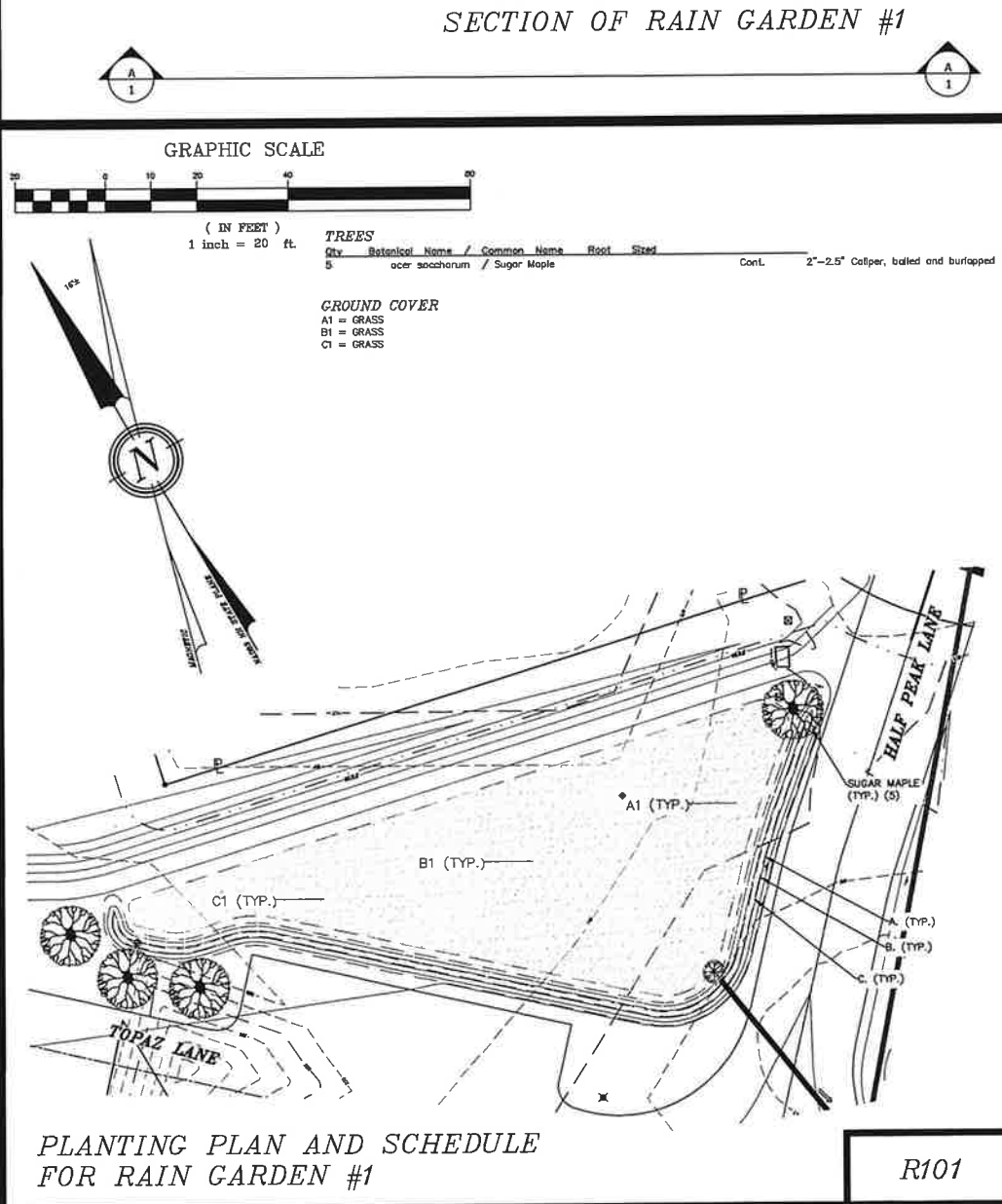
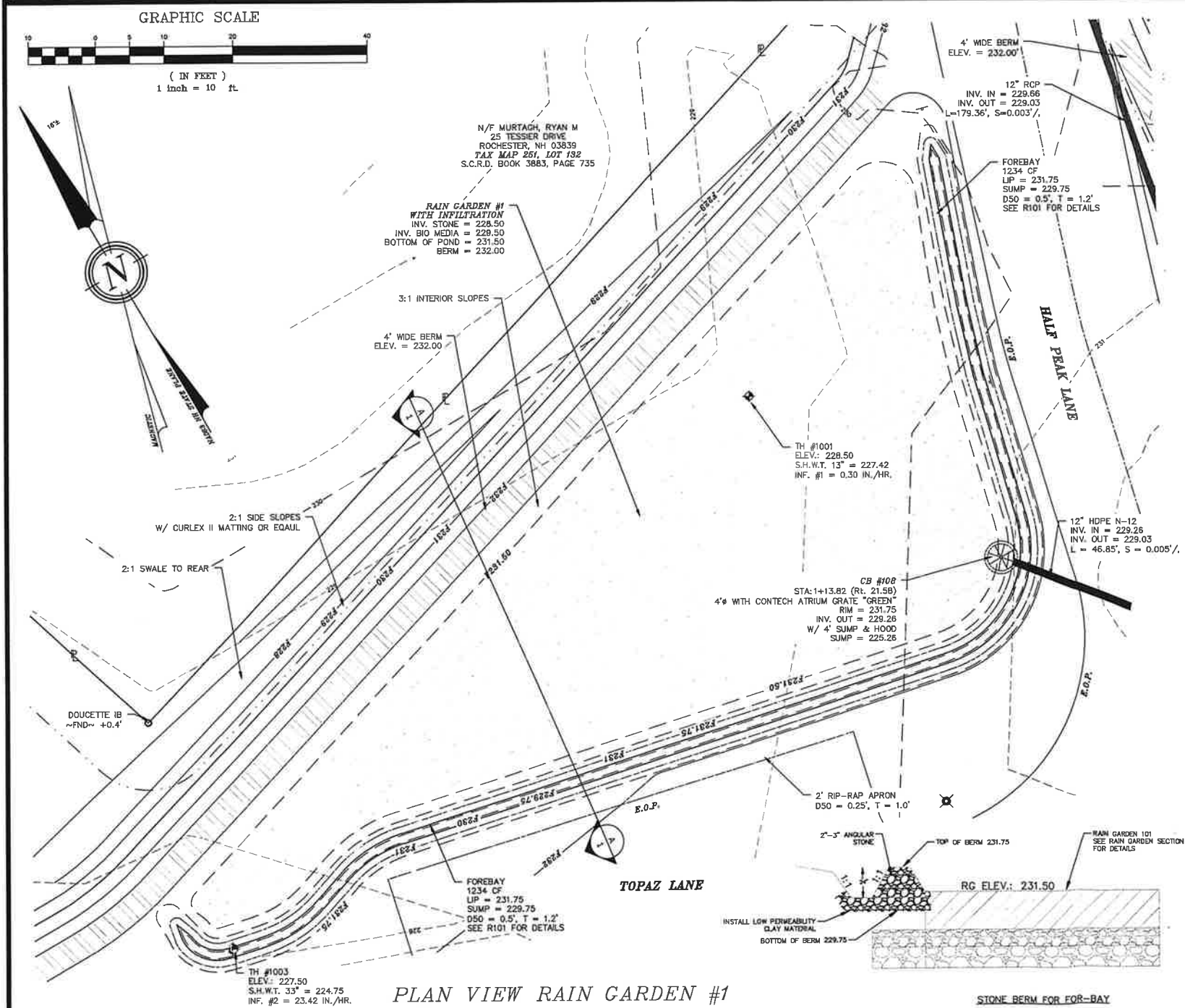
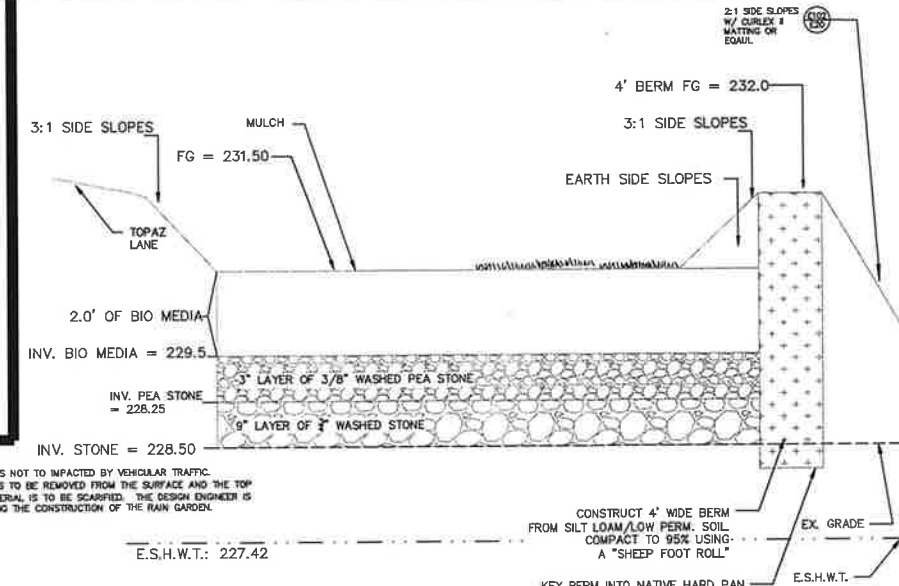
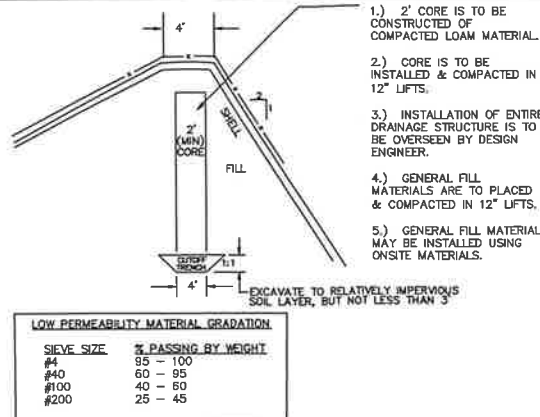
CRUSHED STONE BEDDING *	
SIEVE SIZE	% PASSING BY WEIGHT
1"	100
3/4"	90 - 100
3/8"	20 - 55
# 4	0 - 10
# 8	0 - 5

CRUSHED STONE BEDDING *	
SIEVE SIZE	% PASSING BY WEIGHT
1/2"	100
3/8"	90 - 100
# 4	20 - 55
# 8	5 - 30
# 16	0 - 10
# 30	0 - 5

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

* EQUIVALENT TO STANDARD STONE SIZE #88 - SECTION 702 OF NHDOT STANDARD SPECIFICATIONS

- 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. COMPACTION IS NOT TO OCCUR IN THE RAIN GARDEN AREAS PRIOR TO CONSTRUCTION. SCARIFICATION REQUIRED IN THE EVENT COMPACTED MATERIAL TAKES PLACE.
 4. DO NOT PLACE THE BIORETENTION SYSTEM INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
 5. DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF WATER FROM EXCAVATIONS) TO THE BIORETENTION AREA DURING ANY STAGE OF CONSTRUCTION.
 6. DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT, IF FEASIBLE PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.
- 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 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 DRAINAGE 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. UAH STORMWATER CENTER
 2. NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 2, DECEMBER 2008 AS AMENDED.



SUBMITTED FOR CONSTRUCTION		REVISION		DESCRIPTION	
07-30-2018	#7	06-18-2018	#6a	05-24-2018	#5b
05-02-2018	#4	04-09-2018	#3	03-30-2018	#1
NOT REVISIONS		GENERAL PLAN SET		GENERAL PLAN SET	
NO REVISIONS		GENERAL PLAN SET		GENERAL PLAN SET	

REVISION	DATE	DESCRIPTION
#7	07-30-2018	GENERAL PLAN SET
#6a	06-18-2018	GENERAL PLAN SET
#5b	05-24-2018	GENERAL PLAN SET
#4	05-02-2018	GENERAL PLAN SET
#3	04-09-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

RAIN GARDEN #1 WITH INFILTRATION DETAILS	
CRC FUTURE FOR	
HALF PEAK HOLDINGS	
GEAR ROAD, HANSONVILLE ROAD, JESSER DRIVE	
TAX MAP 251, LOT 120 & 121	

BERRY SURVEYING & ENGINEERING	
335 SECOND CROWN POINT ROAD	
BARRINGTON, NH 03825 (603)332-2863	
SCALE :	1 IN. EQUALS 10 FT.
DATE :	JANUARY 22, 2018
FILE NO. :	DB 2017 - 167

SHEET 25 OF 76

R101

FILTER MEDIA MIXTURES			
Component Material	Percent of Mixture by Volume	Sieve No.	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

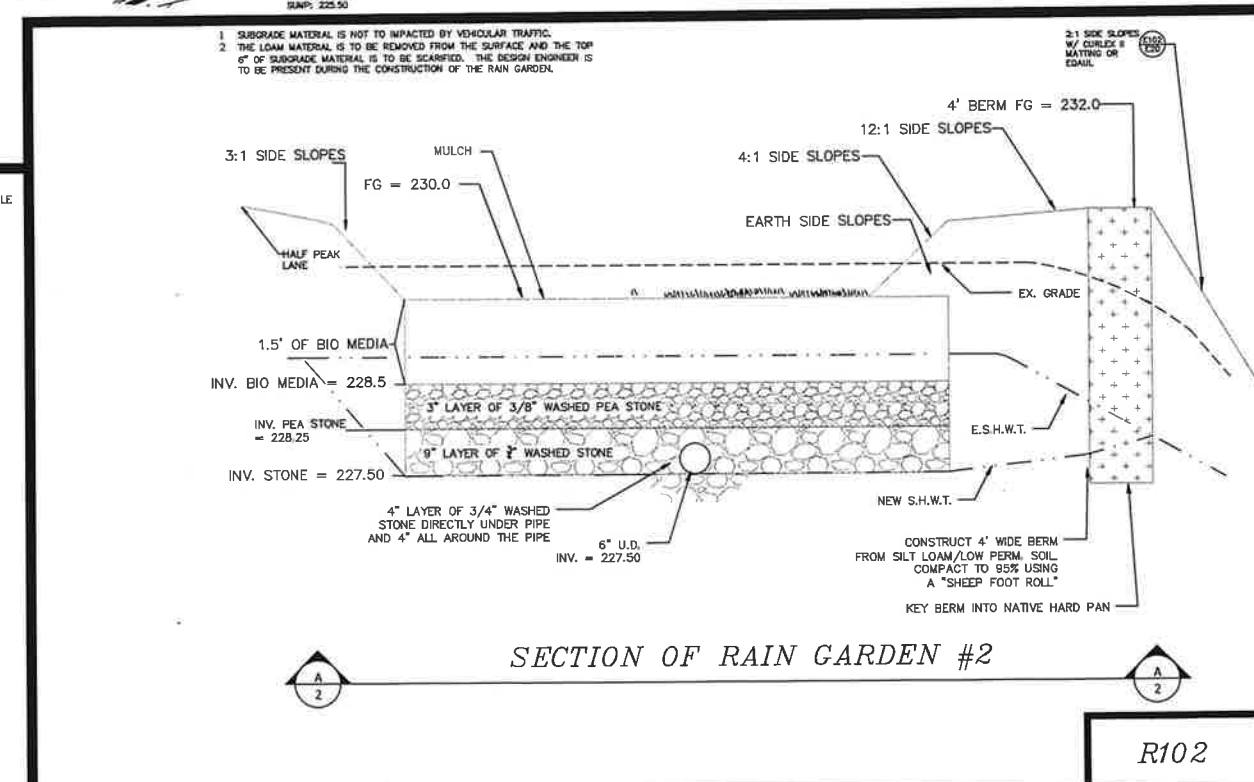
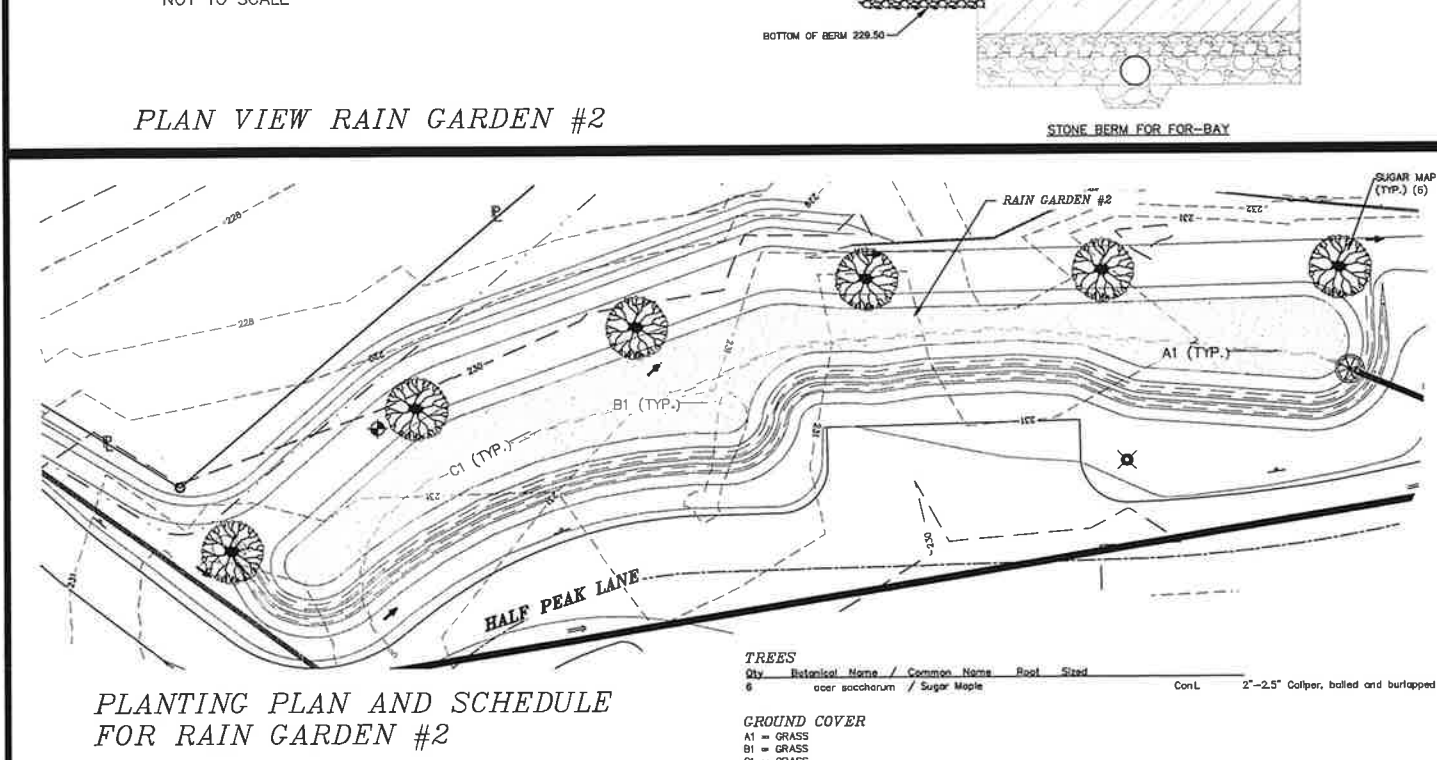
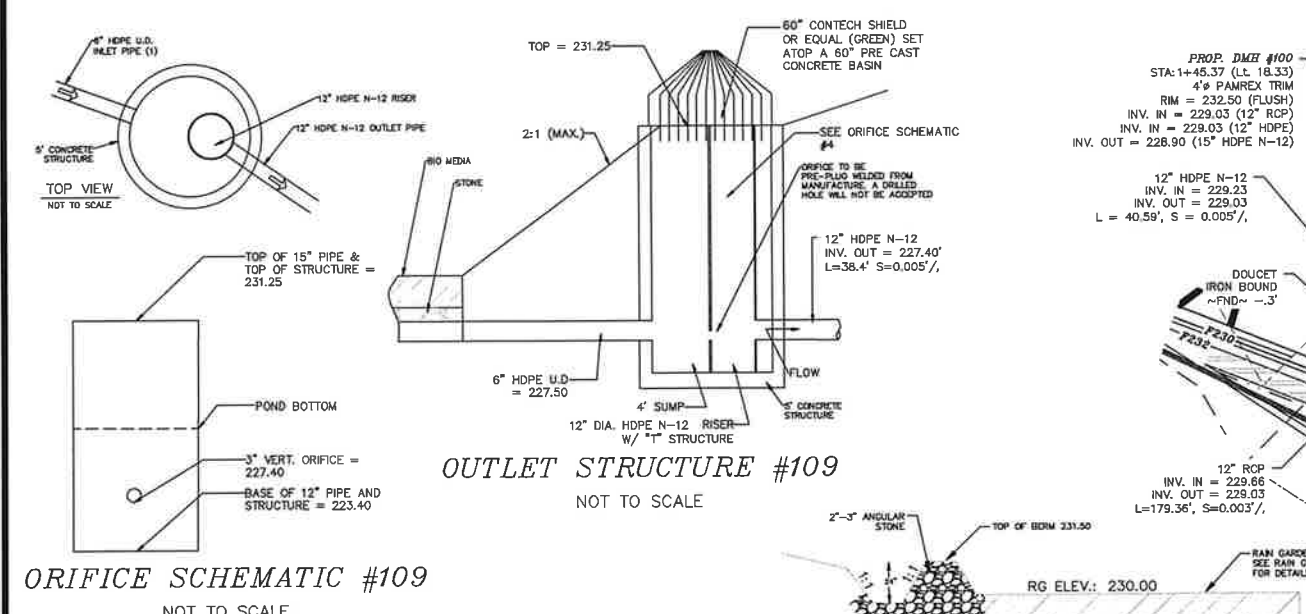
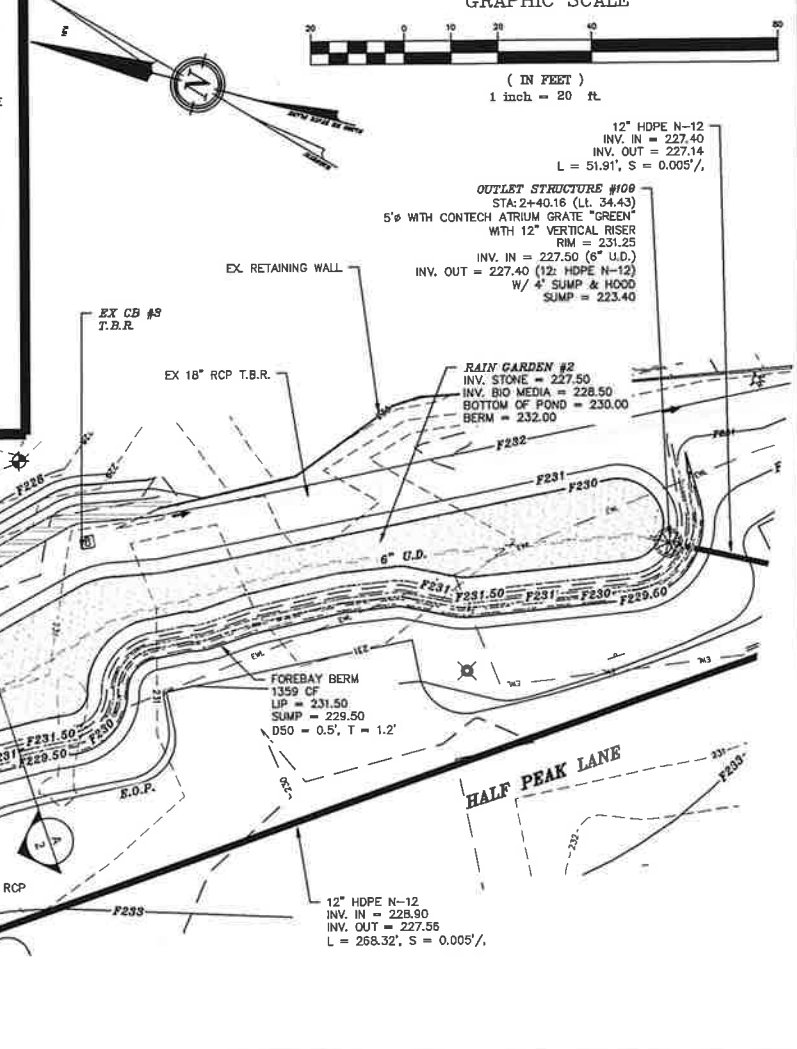
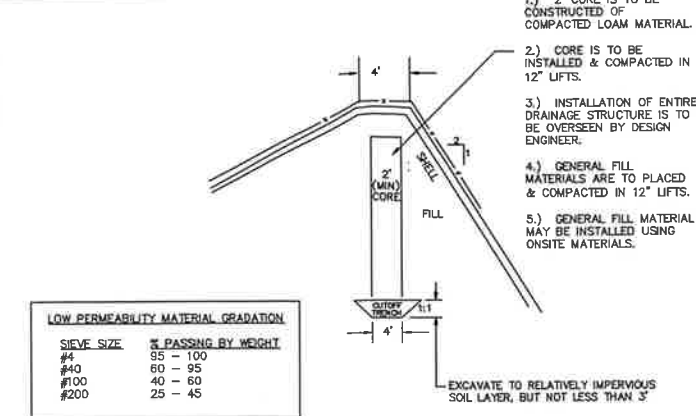
CRUSHED STONE BEDDING	
SIEVE SIZE	% PASSING BY WEIGHT
1"	100
3/4"	90 - 100
3/8"	20 - 55
#4	0 - 10
#8	0 - 5

CRUSHED STONE BEDDING	
SIEVE SIZE	% PASSING BY WEIGHT
1/2"	100
3/8"	90 - 100
#4	20 - 55
#8	5 - 30
#16	0 - 10
#50	0 - 5

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

* EQUIVALENT TO STANDARD STONE SIZE #89 - SECTION 702 OF NHDOT STANDARD SPECIFICATIONS

- 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. COMPACTOR IS NOT TO OCCUR IN THE RAIN GARDEN AREAS PRIOR TO CONSTRUCTION. SCARIFICATION REQUIRED IN THE EVENT COMPACTOR TAKES PLACE.
 4. DO NOT PLACE THE BIORETENTION SYSTEM INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
 5. DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF WATER FROM EXCAVATIONS) TO THE BIORETENTION AREA DURING ANY STAGE OF CONSTRUCTION.
 6. DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT, IF FEASIBLE PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.
- 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 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 DRAINAGE 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.



REVISION	DATE	DESCRIPTION
#1	07-30-2018	SUBMITTED FOR CONSTRUCTION
#2	08-18-2018	REVISED PER AOT COMMENT
#3	09-24-2018	NHDES WEBB RESPONSE
#4	05-02-2018	NOT REVISIONS
#5	04-09-2018	GENERAL PLAN SET
#6	03-30-2018	GENERAL PLAN SET

RAIN GARDEN #2 DETAILS

LAND OF
CRC FUTURE CORP.
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING

335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)352-2863

SCALE : 1 IN. EQUALS 20 FT.

DATE : JANUARY 22, 2018

FILE NO. : DB 2017 - 167

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14793
LICENSED PROFESSIONAL ENGINEER

SHEET 26 OF 76

NOTES

1. WHEN CONTRACTOR EXCAVATES RAIN GARDEN AREA TO UPGRADE, DESIGN ENGINEER SHALL PERFORM SURFACE EVALUATION PRIOR TO THE PLACEMENT OF ANY SELECT MATERIAL OR OTHER BACKFILL.
2. SOIL FILTER MEDIA SHALL BE AS SHOWN ABOVE.
3. COMPACTION IS NOT TO OCCUR IN THE RAIN GARDEN AREAS PRIOR TO CONSTRUCTION. SCARIFICATION REQUIRED IN THE EVENT COMPACTION TAKES PLACE.
4. DO NOT PLACE THE BIORETENTION SYSTEM INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS SURROUNDING AREAS HAVE BEEN FULLY STABILIZED.
5. DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF WATER FROM EXCAVATIONS) TO THE BIORETENTION AREA DURING ANY STAGE OF CONSTRUCTION.
6. EXCAVATION DEPTH SHALL BE SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.

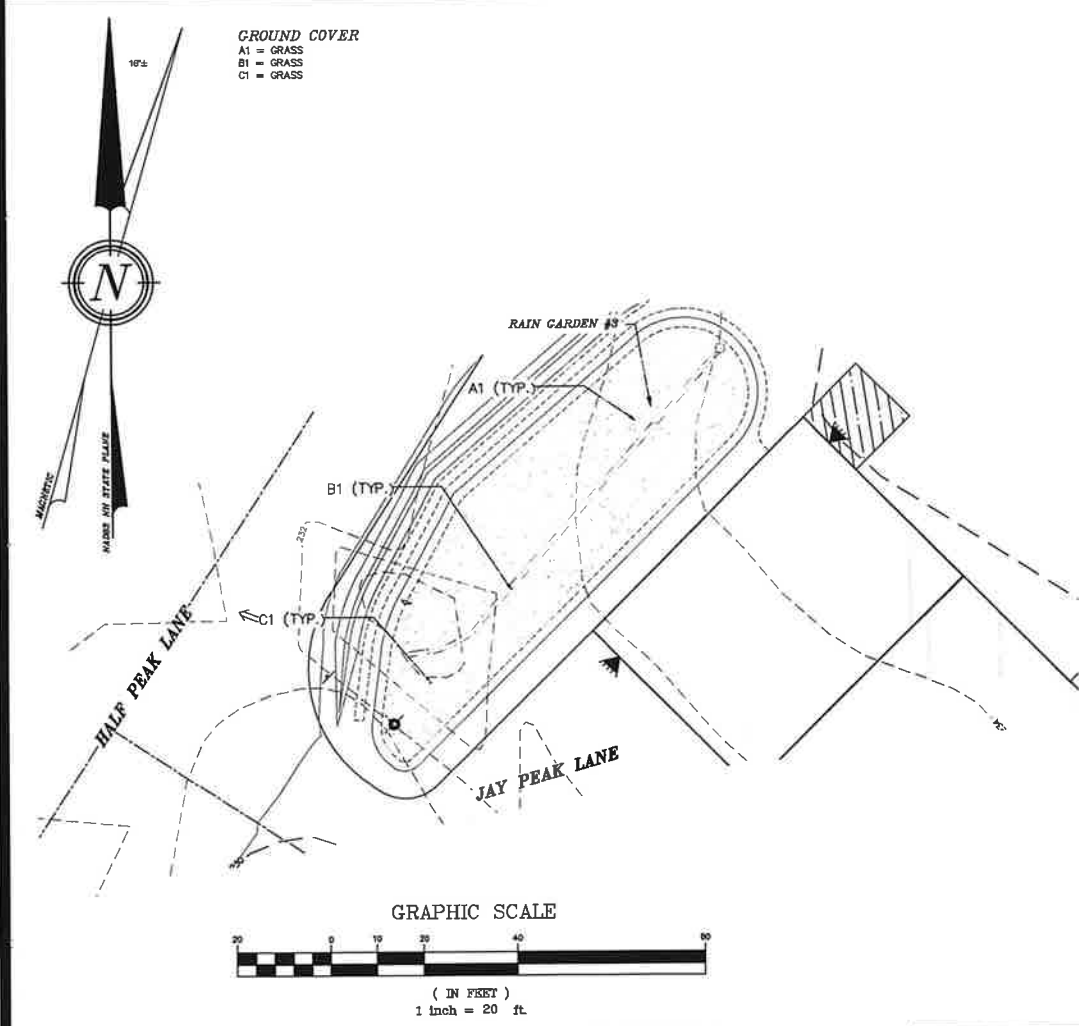
MAINTENANCE REQUIREMENTS

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 SEDIMENTS AS WARRANTED BY INSPECTION, BUT NO LESS THAN ONCE ANNUALLY.
3. AT LEAST ONCE ANNUALLY, SYSTEM SHOULD BE INSPECTED FOR RANDOM-TIME. IF BIORETENTION SYSTEM DOES NOT PERFORM 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.

1. SUBGRADE MATERIAL IS NOT TO BE IMPACTED BY VEHICULAR TRAFFIC.
2. THE LOAM MATERIAL IS TO BE REMOVED FROM THE SURFACE, AND THE TOP 6" OF SUBGRADE MATERIAL IS TO BE SCARIFIED. THE DESIGN ENGINEER IS TO BE PRESENT DURING THE CONSTRUCTION OF THE RAIN GARDEN.



PLANTING PLAN AND SCHEDULE
FOR RAIN GARDEN #3

R103

CRUSHED STONE BEDDING		CRUSHED STONE BEDDING	
SIEVE SIZE	% PASSING BY WEIGHT	SIEVE SIZE	% PASSING BY WEIGHT
1"	100	1/2"	100
3/4"	90 - 100	3/8"	90 - 100
3/8"	20 - 55	#4"	20 - 55
# 4	0 - 10	# 8	5 - 30
# 8	0 - 5	# 16	0 - 10
		# 50	0 - 5

- 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 PROFILES SHALL BE AS SHOWN ABOVE.
 3. NO INFILTRATION IS NOT TO OCCUR IN THE RAIN GARDEN AREAS PRIOR TO CONSTRUCTION. SCARCIFICATION REQUIRED IN THE EVENT COMPACTION TAKES PLACE.
 4. DO NOT PLACE ANY MATERIALS OR ITEMS INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
 5. DO NOT ENGAGE IN ANY CONSTRUCTION ACTIVITIES (RUNOFF WATER FROM EXCAVATIONS, TO THE SUBTERRANEAN AREA DURING ANY STAGE OF CONSTRUCTION.
 6. DO NOT TRAP/POSE EXPOSED SOIL SURFACES WITH CONSTRUCTION EQUIPMENT, IF FEASIBLE PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.

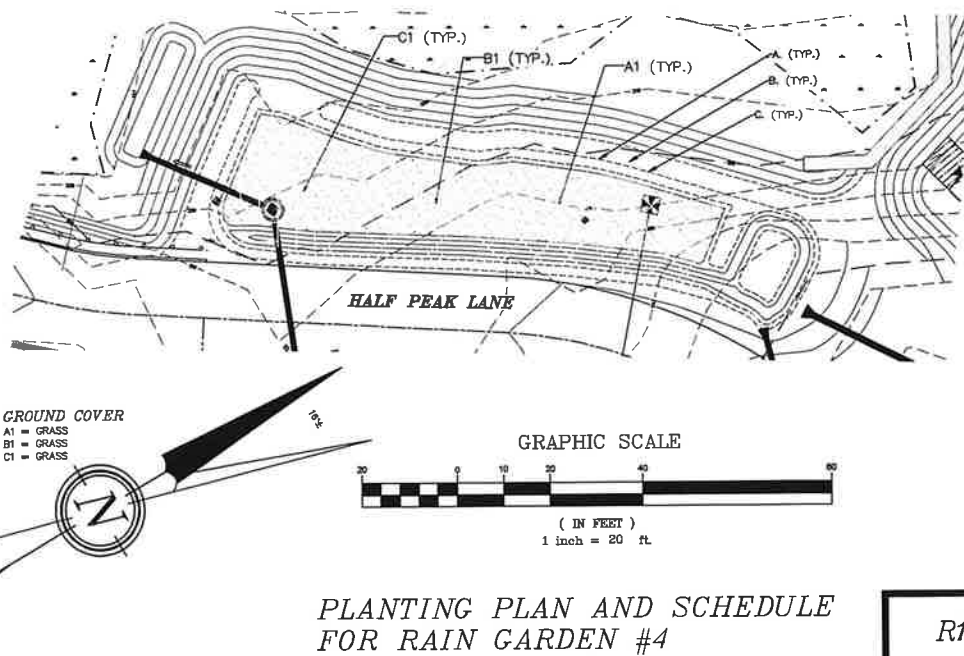
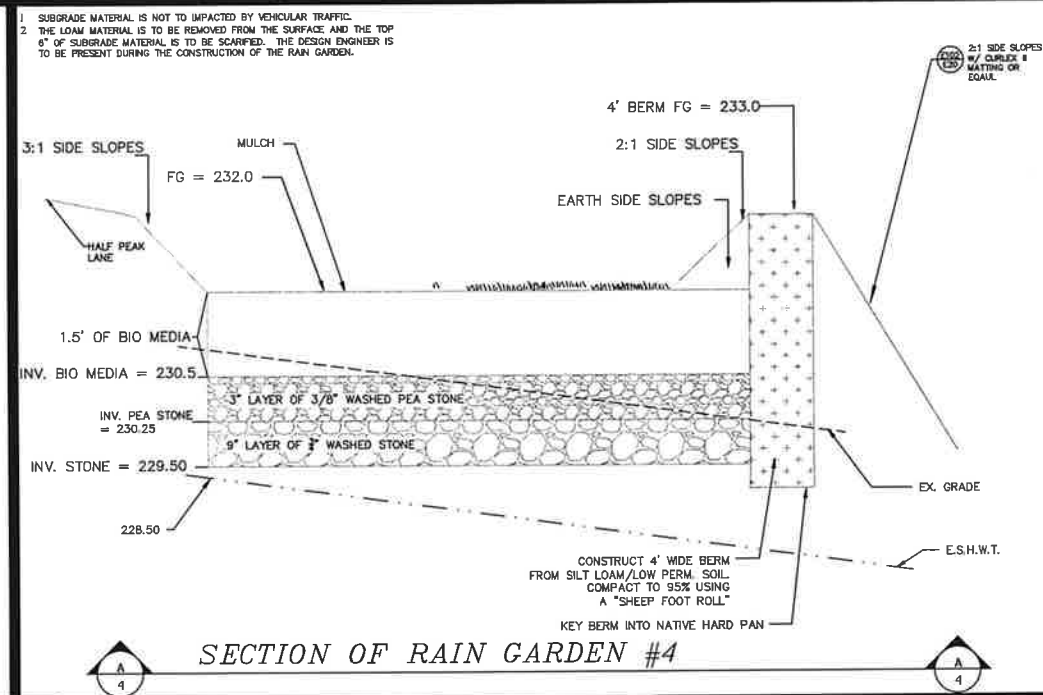
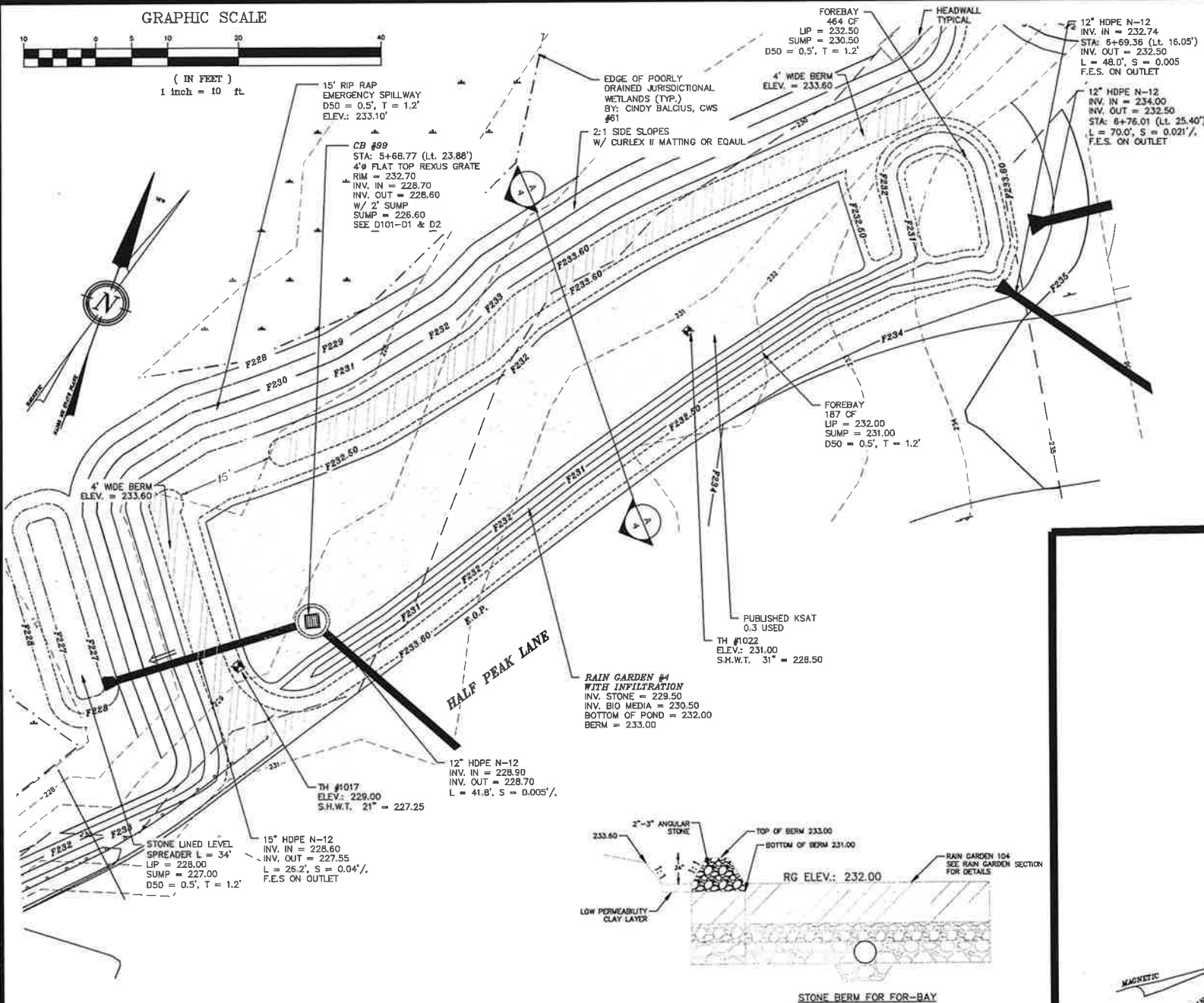
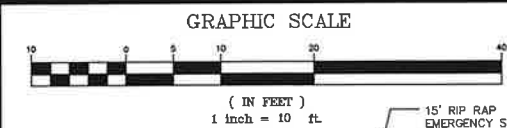
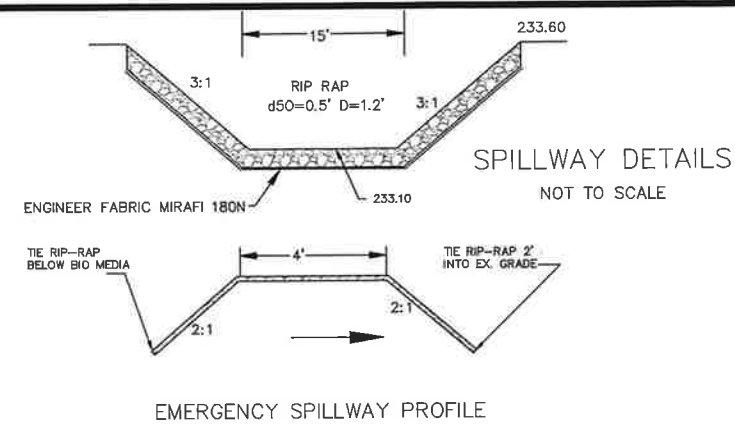
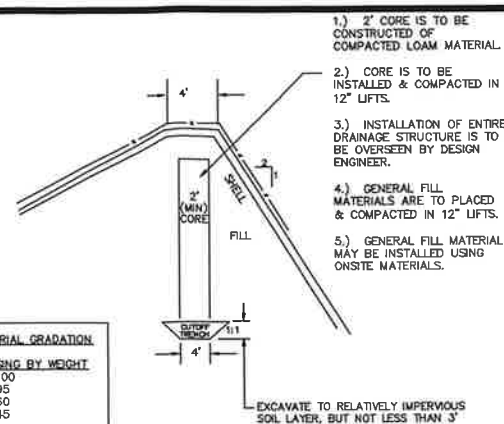
MAINTENANCE REQUIREMENTS

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 ONE ANNUALLY.
- AT LEAST ONCE ANNUALLY, SYSTEM SHOULD BE INSPECTED FOR DRAINAGE TIME, IF BOREHOLE SYSTEM DOES NOT OPERATE WITHIN 72 HOURS OF A TRAFFIC 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, BUT NOT LIMITED TO, REMOVAL OF DEAD OR DISEASED VEGETATION, AND REMOVAL OF INVASIVE SPECIES.

DESIGN REFERENCES

- 2 NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 2, DECEMBER 2008 AS AMENDED

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



REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	NOTES, WBS RESPONSE
#6	06-18-2018	NOTES, WBS RESPONSE
#5	03-02-2018	AOT REVISIONS
#4	04-11-2018	SEWER & WATER REVISIONS
#3	04-11-2018	SEWER & WATER REVISIONS
#2	04-09-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

RAIN GARDEN #4 WITH INFILTRATION DETAILS
 LAND OF
 CRC FUTURE CORP.
 FOR
 HALF PEAK HOLDINGS
 HANSONVILLE ROAD, TESSER DRIVE
 GEAR ROAD,
 ROCHESTER, NH 03667
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

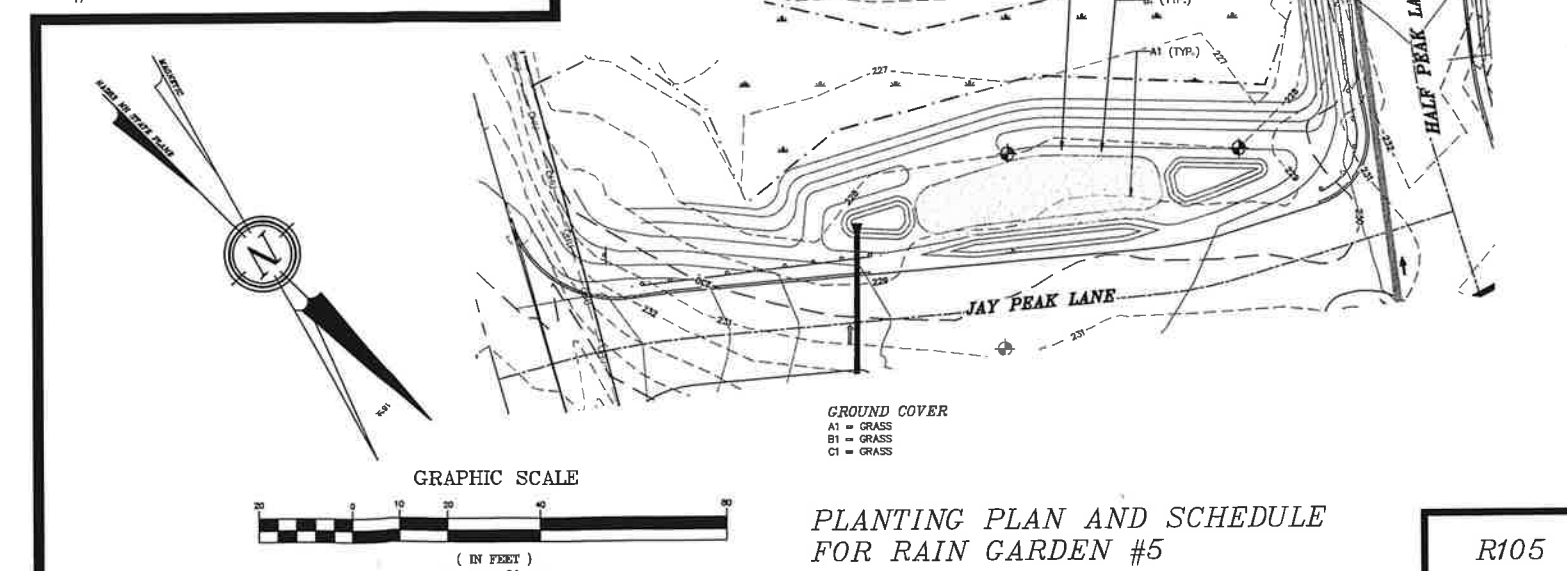
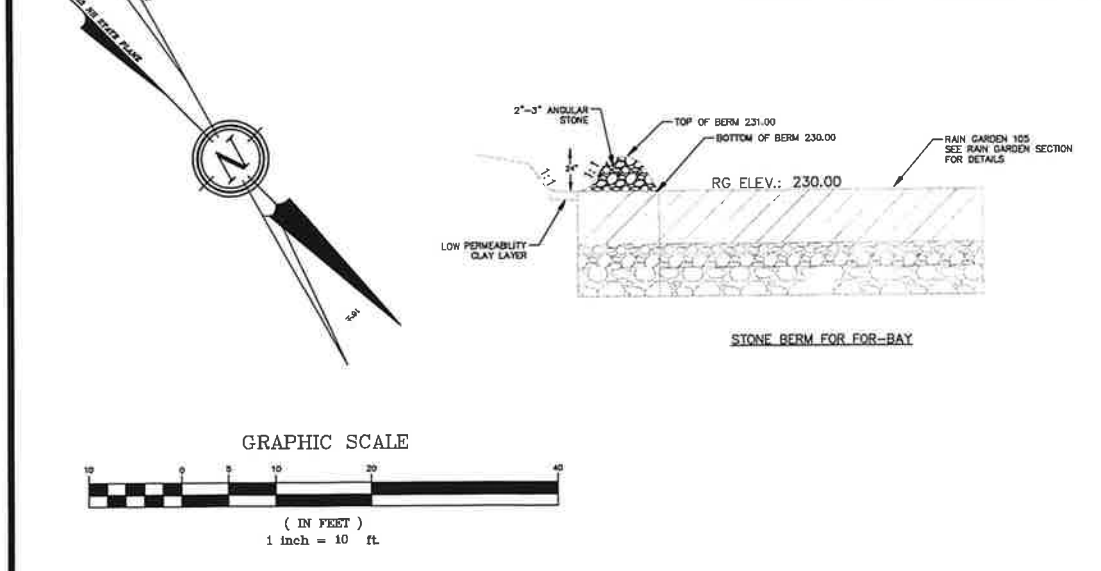
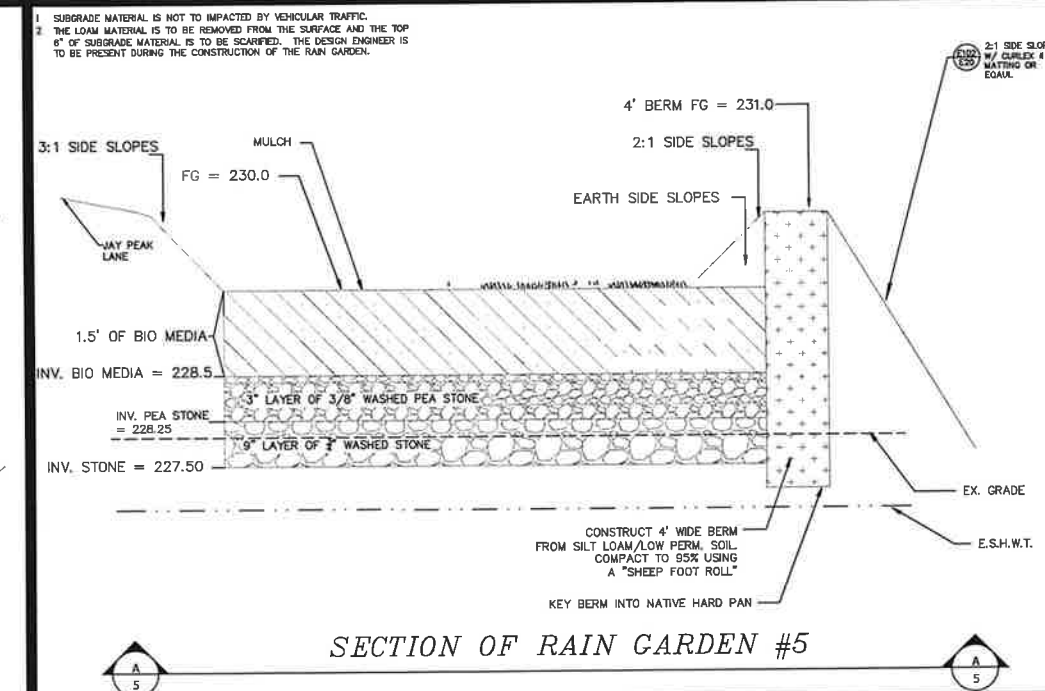
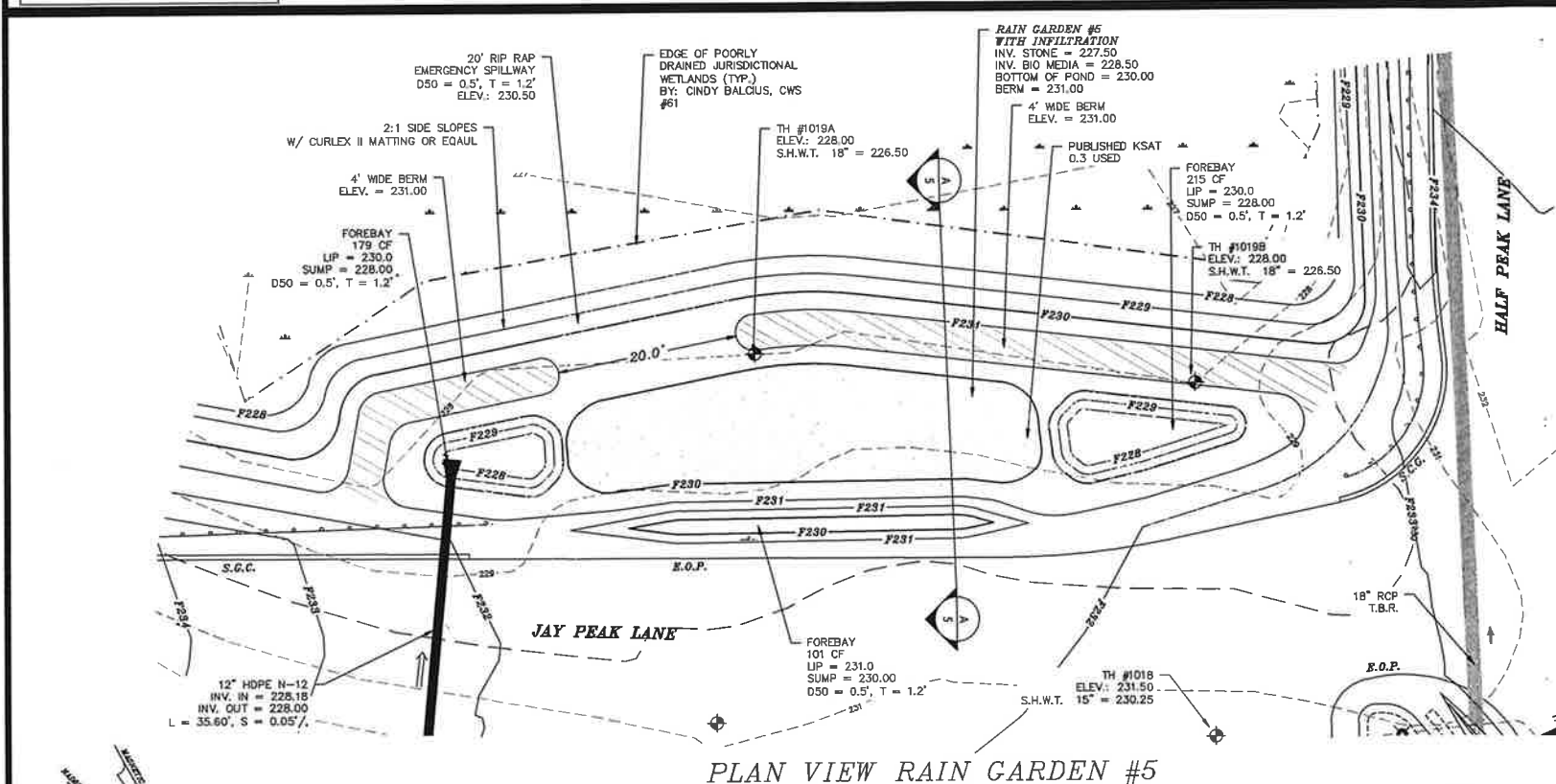
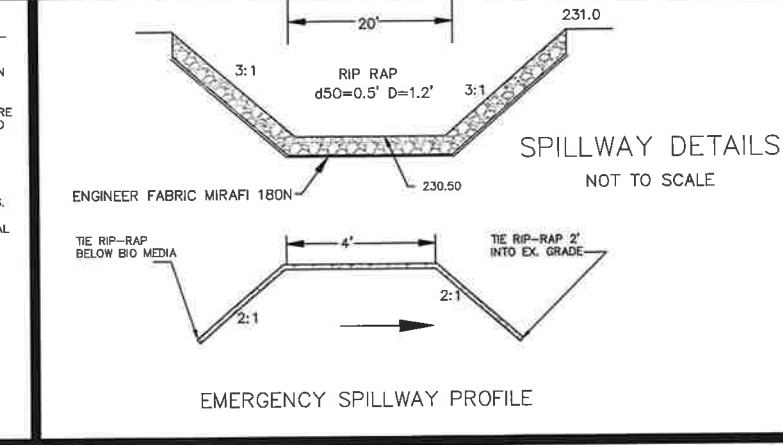
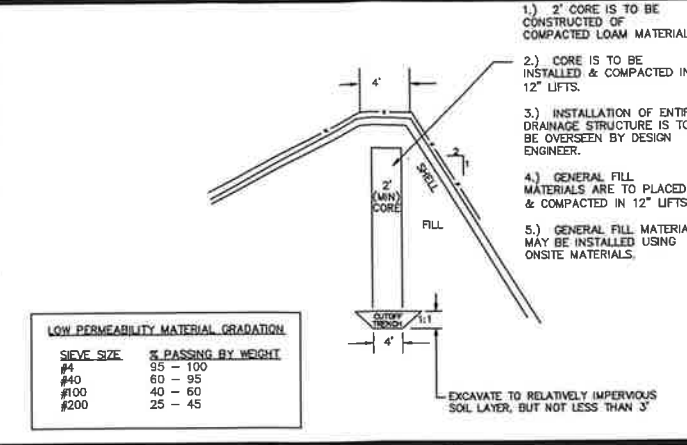
SCALE : 1 IN. EQUALS 10 FT.

DATE : JANUARY 22, 2018



FILTER MEDIA MIXTURES			
Component Material	Percent of Mixture by Volume	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
CRUSHED STONE BEDDING *			
SIEVE SIZE	% PASSING BY WEIGHT	SIEVE SIZE	% PASSING BY WEIGHT
1"	100	1/2"	100
3/4"	90 - 100	3/8"	90 - 100
3/8"	20 - 55	#4	20 - 55
#4	0 - 10	#8	5 - 30
#8	0 - 5	#16	0 - 10
		#50	0 - 5
* EQUIVALENT TO STANDARD STONE SIZE #89 - SECTION 702 OF NHDOT STANDARD SPECIFICATIONS			
* EQUIVALENT TO STANDARD STONE SIZE #67 - SECTION 702 OF NHDOT STANDARD SPECIFICATIONS			

- 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. COMPACTION IS NOT TO OCCUR IN THE RAIN GARDEN AREAS PRIOR TO CONSTRUCTION. SCARIFICATION REQUIRED IN THE EVENT COMPACTION TAKES PLACE.
 4. DO NOT PLACE THE BIORETENTION SYSTEM INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
 5. DO NOT DISCHARGE SEDIMENT-LOADED WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF WATER FROM EXCAVATIONS) TO THE BIORETENTION AREA DURING ANY STAGE OF CONSTRUCTION.
 6. DO NOT TRAMPLE EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.
- 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 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 DRAINAGE 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.



SUBMITTED FOR CONSTRUCTION
REVISED PER AOT COMMENT
NHDOS WHEN RESPONSE
ACQUIRED FOR REVISIONS
GENERAL & PLAN SET
GENERAL PLAN SET

REVISION	DATE	DESCRIPTION
#7	07-30-2018	
#6a	06-18-2018	
#5b	05-24-2018	
#4	05-02-2018	
#3	04-09-2018	
#2	04-09-2018	
#1	03-30-2018	

RAIN GARDEN #5 WITH INFILTRATION DETAILS
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, JESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)352-2863
SCALE : 1 IN. EQUALS 10 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167

KENNETH A. BERRY
Professional Engineer
State of New Hampshire
15-1925

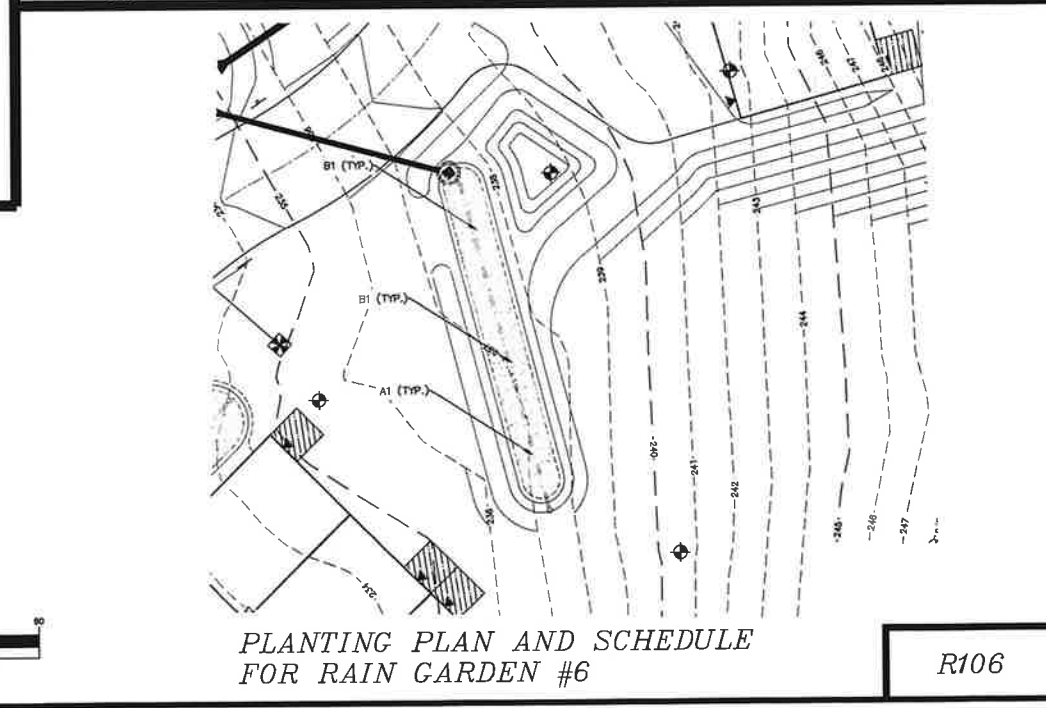
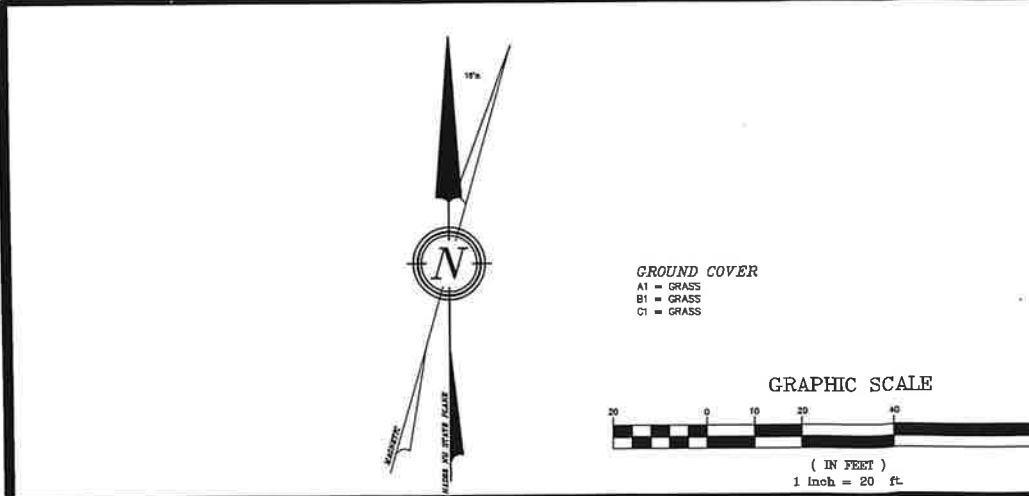
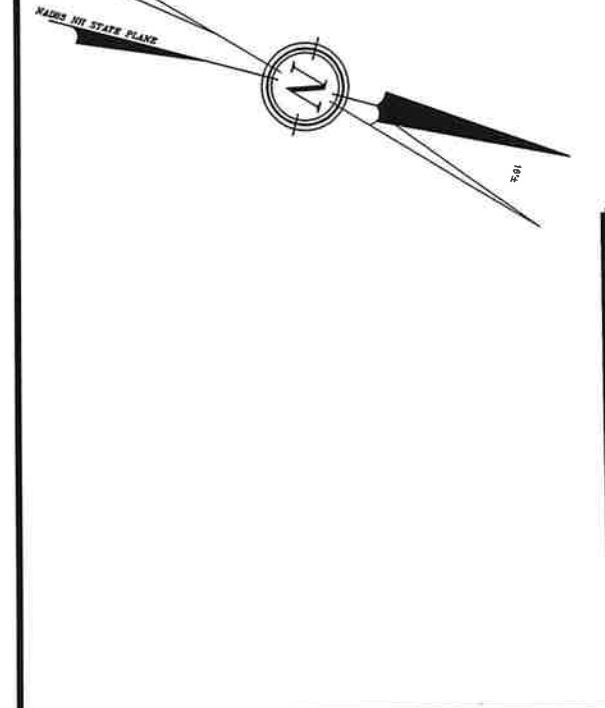
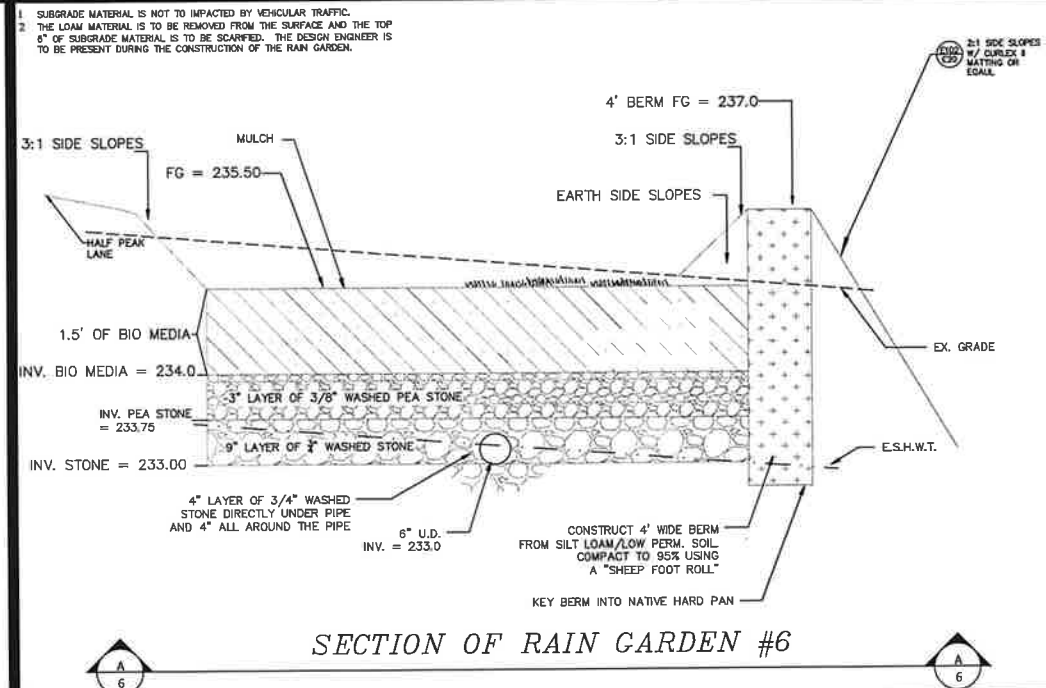
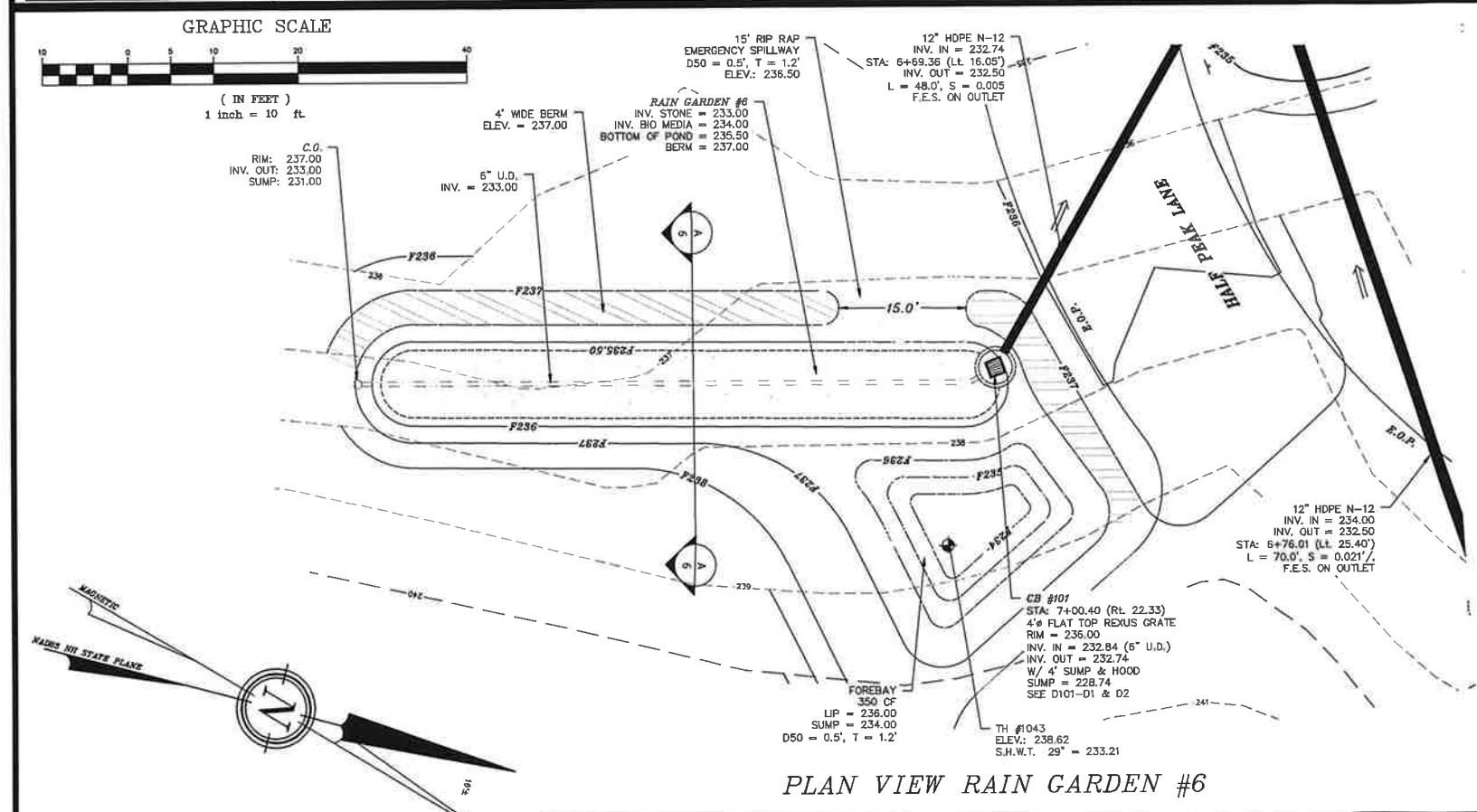
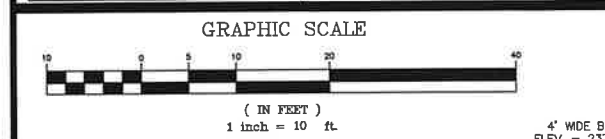
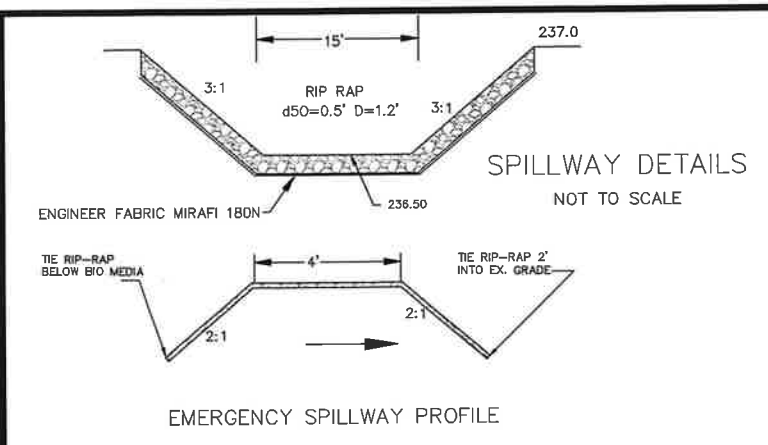
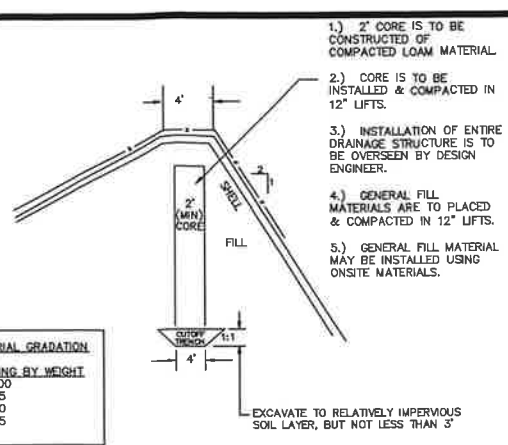
R105

SHEET 29 OF 76

FILTER MEDIA MIXTURES			
Component Material	Percent of Mixture by Volume	Gradation of material	
		Sieve No.	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
CRUSHED STONE BEDDING			
SIEVE SIZE	% PASSING BY WEIGHT		
1"	100		
3/4"	90 - 100		
3/8"	20 - 55		
#4	0 - 10		
#8	0 - 5		
* EQUIVALENT TO STANDARD STONE SIZE #57 - SECTION 702 OF NHDOT STANDARD SPECIFICATIONS			
CRUSHED STONE BEDDING			
SIEVE SIZE	% PASSING BY WEIGHT		
1/2"	100		
3/8"	90 - 100		
#4	20 - 55		
#8	5 - 30		
#16	0 - 10		
#50	0 - 5		
* EQUIVALENT TO STANDARD STONE SIZE #59 - SECTION 702 OF NHDOT STANDARD SPECIFICATIONS			

- 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. COMPACTION IS NOT TO OCCUR IN THE RAIN GARDEN AREAS PRIOR TO CONSTRUCTION. SCARIFICATION REQUIRED IN THE EVENT COMPACTION TAKES PLACE.
 4. DO NOT PLACE THE BORERETENTION SYSTEM INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
 5. DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF WATER FROM EXCAVATIONS) TO THE BORERETENTION AREA DURING ANY STAGE OF CONSTRUCTION.
 6. DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT, IF FEASIBLE PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.
- 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 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 DRAINDOWN TIME. IF BORERETENTION 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.

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



SUBMITTED FOR CONSTRUCTION		REVISION	DATE	DESCRIPTION
REVISED PER ACT COMMENT				
NOTES: WEBER RESPONSE				
GENERAL PLAN SET				
07-30-2018	#7			
06-18-2018	#6a			
06-24-2018	#5b			
06-11-2018	#4			
04-11-2018	#3			
04-09-2018	#2			
03-30-2018	#1			

RAIN GARDEN #6 DETAILS	
CRC FUTURE CORP.	
FOR	
HALF PEAK HOLDINGS	
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE	
ROCHESTER, NH 03867	
TAX MAP 261, LOT 180 & 121	

BERRY SURVEYING & ENGINEERING	
335 SECOND CROWN POINT ROAD	
BARRINGTON, NH 03825 (603)332-2863	
SCALE :	1 IN. EQUALS 10 FT.
DATE :	JANUARY 22, 2018
FILE NO. :	DB 2017 - 167

STATE OF NEW HAMPSHIRE
 KENNETH A. BERRY
 No. 1476
 LICENSED PROFESSIONAL ENGINEER

SHEET 30 OF 76

FILTER MEDIA MIXTURES			
Component Material	Percent of Mixture by Volume	Gradation of material	
		Sieve No.	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

CRUSHED STONE BEDDING *	
SIEVE SIZE	% PASSING BY WEIGHT
1"	100
3/4"	90 - 100
3/8"	20 - 55
# 4	0 -10
# 8	0 - 5

* EQUIVALENT TO STANDARD STONE SIZE #67 - SECTION 702 OF NHDOT STANDARD SPECIFICATIONS	
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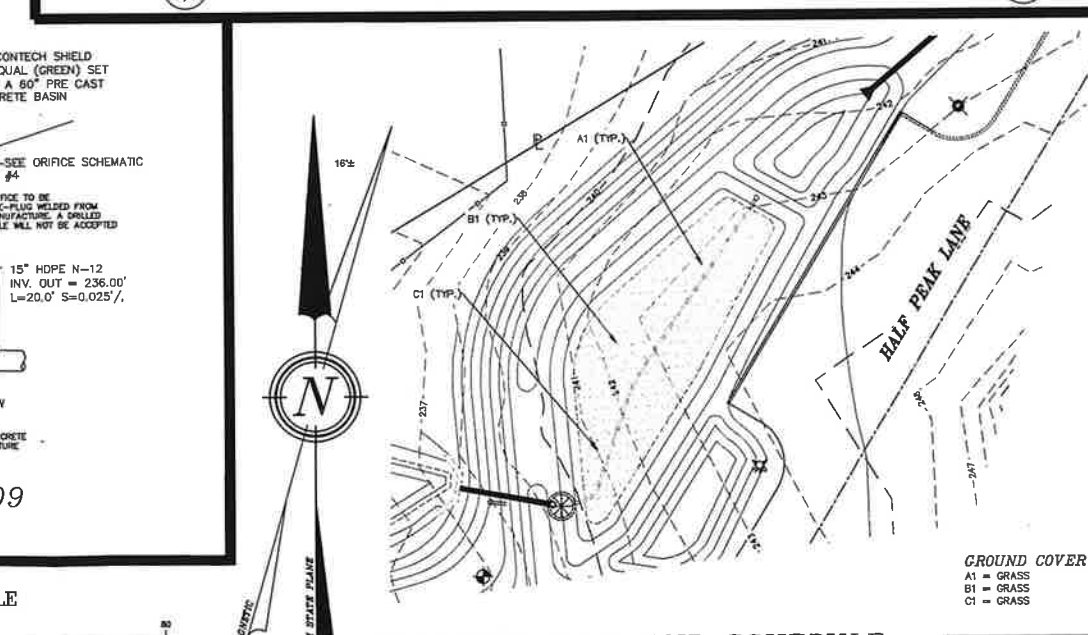
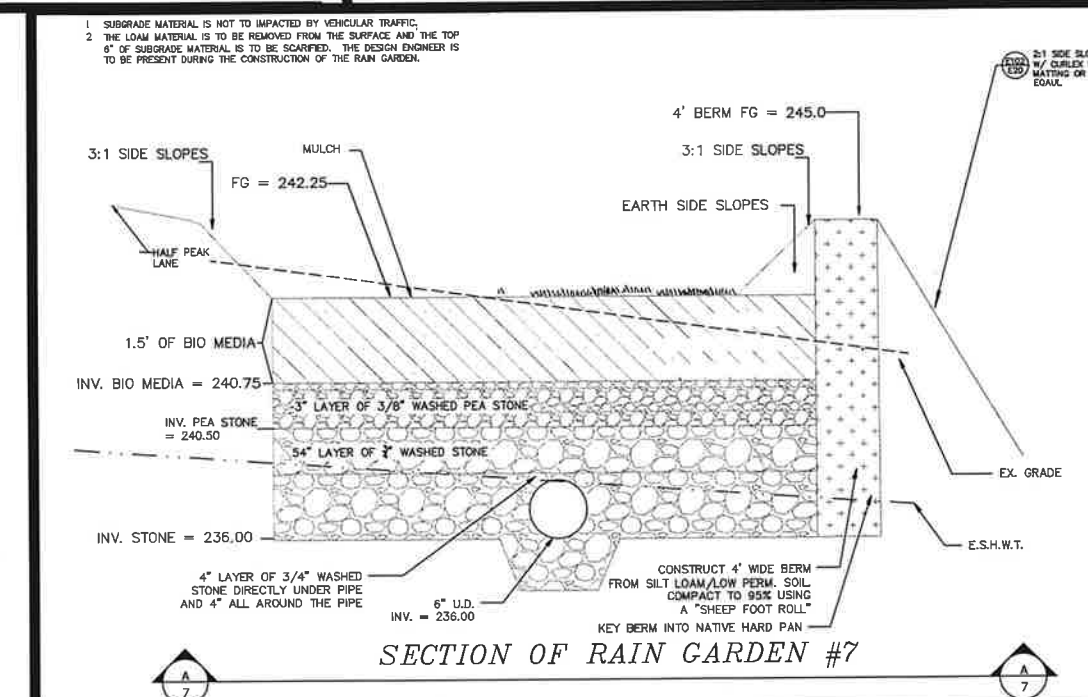
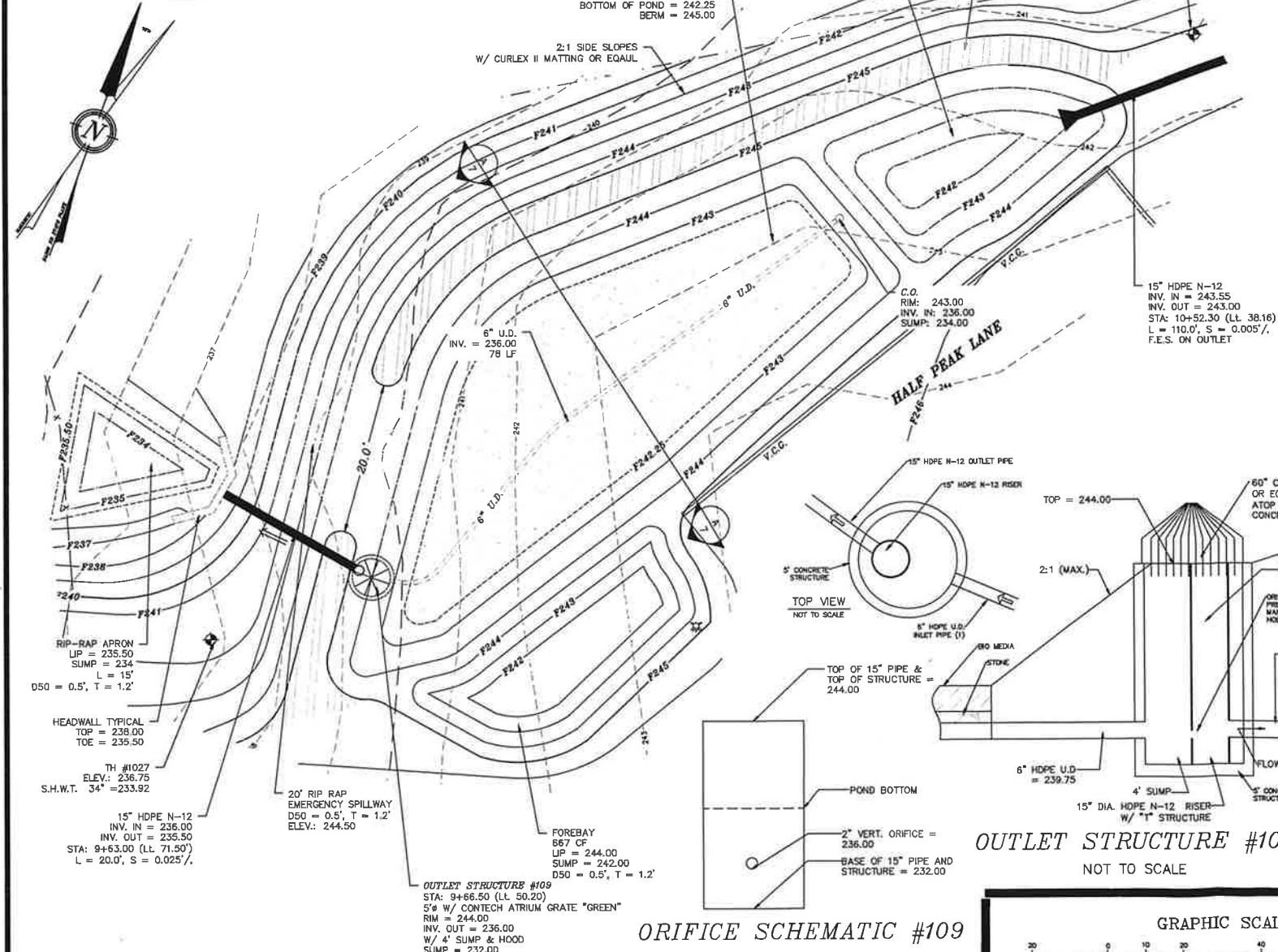
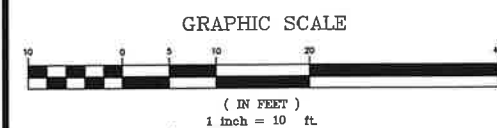
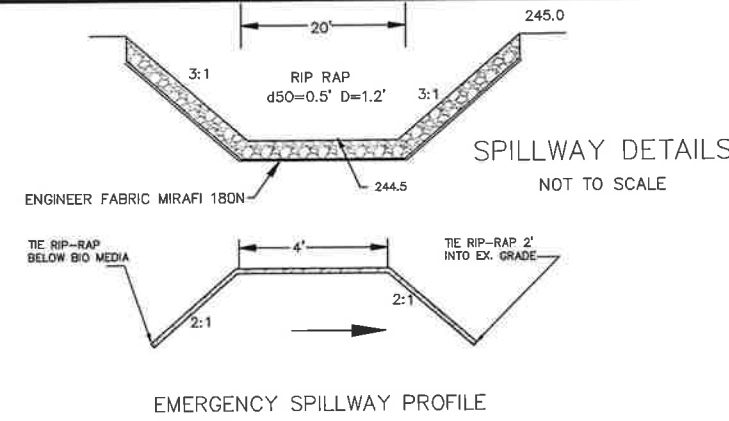
CRUSHED STONE BEDDING *	
SIEVE SIZE	% PASSING BY WEIGHT
1/2"	100
3/8"	90 - 100
#4"	20 - 55
# 8	5 - 30
# 16	0 - 10
# 50	0 - 5

* EQUIVALENT TO STANDARD STONE SIZE #69 - SECTION 702 OF NHDOT STANDARD SPECIFICATIONS	
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- NOTES**
- 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.
 - SOIL FILTER MEDIA SHALL BE AS SHOWN ABOVE.
 - COMPACTION IS NOT TO OCCUR IN THE RAIN GARDEN AREAS PRIOR TO CONSTRUCTION. SCARIFICATION REQUIRED IN THE EVENT COMPACTION TAKES PLACE.
 - DO NOT PLACE THE BIORETENTION SYSTEM INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
 - DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF WATER FROM EXCAVATIONS) TO THE BIORETENTION AREA DURING ANY STAGE OF CONSTRUCTION.
 - DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.
- MAINTENANCE REQUIREMENTS**
- 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.
 - PRETREATMENT MEASURES SHOULD BE INSPECTED AT LEAST TWICE ANNUALLY, AND CLEARED OF ACCUMULATED SEDIMENT AS WARRANTED BY INSPECTION, BUT NO LESS THAN ONCE ANNUALLY.
 - AT LEAST ONCE ANNUALLY, SYSTEM SHOULD BE INSPECTED FOR DRAINAGE 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.
 - 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**
- UNH STORMWATER CENTER
 - NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 2, DECEMBER 2008 AS AMENDED.

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

- 2" CORE IS TO BE CONSTRUCTED OF COMPACTED LOAM MATERIAL.
- CORE IS TO BE INSTALLED & COMPACTED IN 12" LIFTS.
- INSTALLATION OF ENTIRE DRAINAGE STRUCTURE IS TO BE OVERSEEN BY DESIGN ENGINEER.
- GENERAL FILL MATERIALS ARE TO BE PLACED & COMPACTED IN 12" LIFTS.
- GENERAL FILL MATERIAL MAY BE INSTALLED USING ON-SITE MATERIALS.



REVISION	DATE	DESCRIPTION
07-30-2018		SUBMITTED FOR CONSTRUCTION
08-18-2018		REVISED PER ACT COMMENT
09-24-2018		NHDES WEB RESPONSE
09-02-2018		ACT REVISIONS
09-02-2018		GENERAL PLAN SET
04-03-2018		GENERAL PLAN SET
03-30-2018		GENERAL PLAN SET

RAIN GARDEN #7 DETAILS

LAND OF FUTURE CORP.
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)352-2863
SCALE: 1 IN. EQUALS 10 FT.
DATE: JANUARY 22, 2018
FILE NO.: DB 2017 - 167

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 1494
LICENSED PROFESSIONAL ENGINEER

SHEET 31 OF 76

NOTES

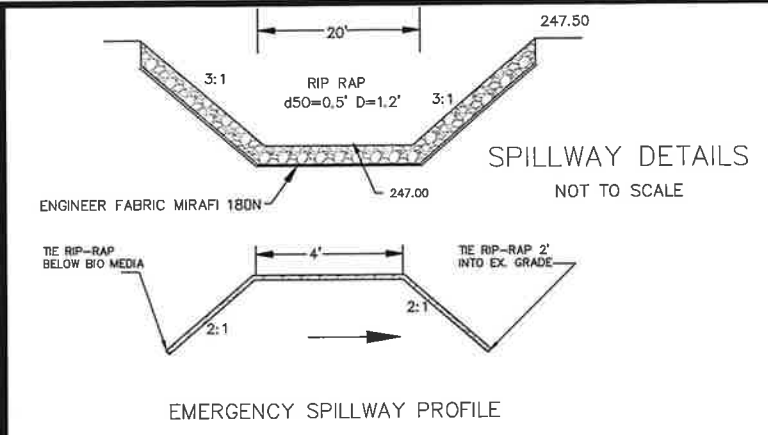
1. WHEN CONTRACTOR EXCAVATES RAIN GARDEN AREA TO SUBGRADE, DESIGN ENGINEER SHALL PERFORM SUBSURFACE EVALUATION PRIOR TO THE PLACEMENT OF ANY SELECT MATERIAL OR OTHER BACKFILL.
2. SOIL FILTER MEDIA SHALL BE AS SHOWN ABOVE.
3. SCARRIFICATION IS NOT TO OCCUR IN THE RAIN GARDEN AREAS PRIOR TO CONSTRUCTION. SCARRIFICATION REQUIRED IN THE EVENT COMPACTION TAKES PLACE.
4. DO NOT PLACE THE INFILTRATION SYSTEM INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS SURROUNDING AREAS HAVE BEEN FULLY STABILIZED.
5. DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF WATER FROM EXCAVATIONS) TO THE BOREHOLE AREA DURING ANY STAGE OF CONSTRUCTION.
6. EXCAVATE EXPOSED SURFACE WITH CONSTRUCTION EQUIPMENT, IF FEASIBLE PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.

MAINTENANCE REQUIREMENTS

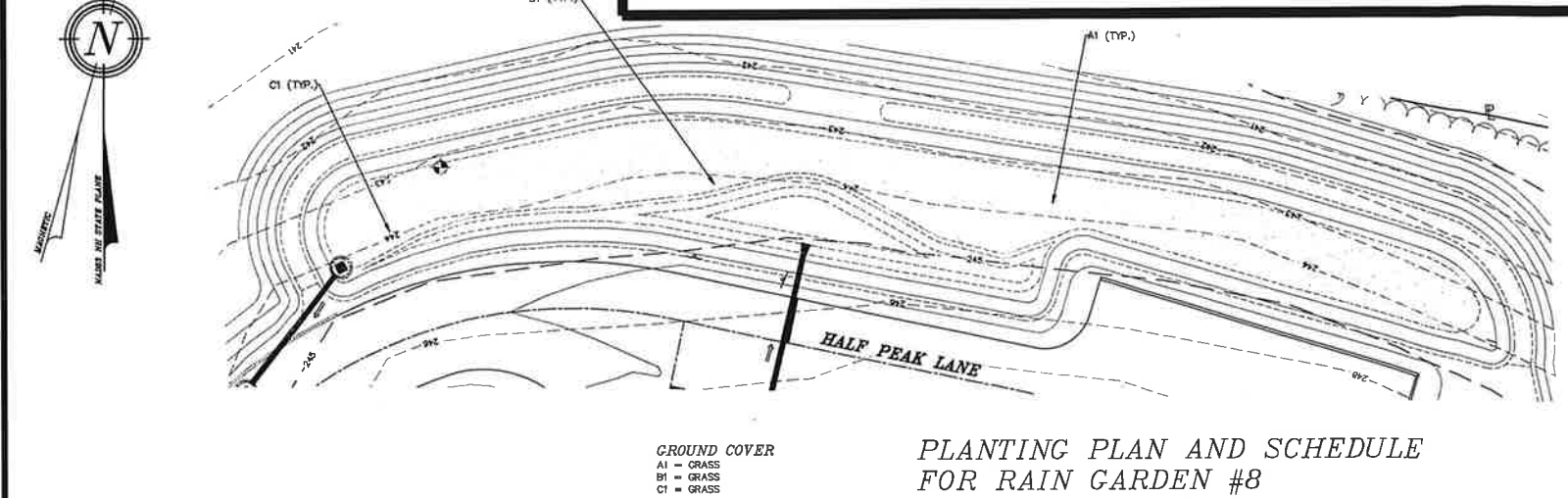
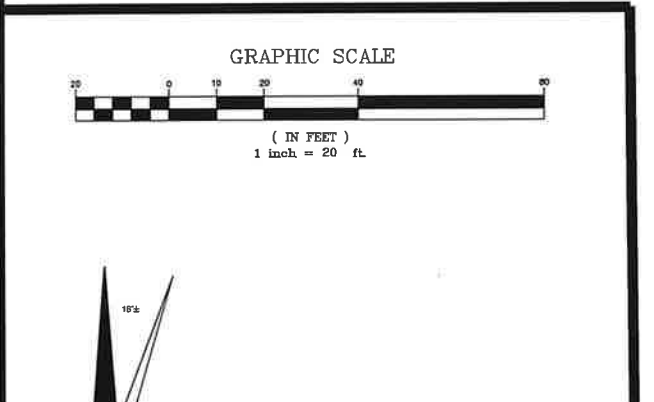
1. SYSTEMS SHOULD BE INSPECTED AT LEAST TWICE ANNUALLY, AND FOLLOWING ANY RAINFALL EXCEEDING 2.5 INCHES IN A 24-HOUR PERIOD, WITH MAINTENANCE OR REHABILITATION CONDUCTED AS A WARRANTED BY SUCH INSPECTION.
2. PRETREATMENT MEASURES SHOULD BE INSPECTED AT LEAST TWICE ANNUALLY, AND CLEANED OF ACCUMULATED SEDIMENT AS WARRANTED BY INSPECTION, BUT NO LESS THAN ONCE ANNUALLY.
3. AT LEAST ONCE ANNUALLY, SYSTEM SHOULD BE INSPECTED FOR BRANDOWN TIME. IF BOREHOLE INJECTION SYSTEM DOES NOT BRUSH WITHIN 24 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 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.

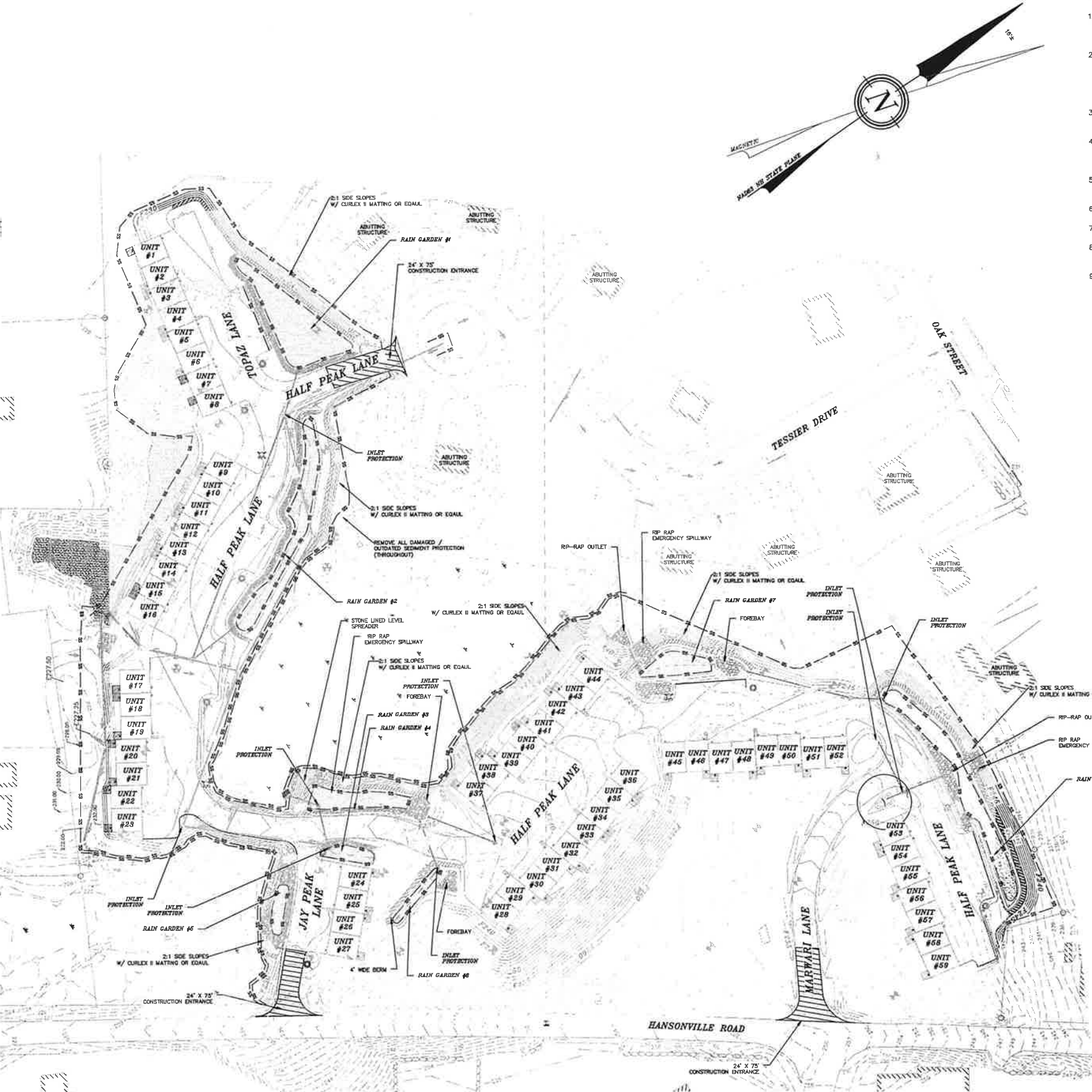
DESIGN REFERENCES

1. UNH STORMWATER CENTER
2. NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 2, DECEMBER 2006 AS AMENDED,



RAIN GARDEN #8 WITH INFILTRATION DETAILS
FOR
LAND OF
CRO FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03861
TAX MAP 251, LOT 120 & 121





NOTES:

- 1.) CURRENT OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857
- 2.) APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
NORTH HAMPTON, NH 03862
- A.) TAX MAP 251, LOT 120 & 121
- 3.) THE PURPOSE OF THIS PLAN IS TO DEMONSTRATE OVERVIEW PROPER EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION PRACTICES FOR LEDGEVIEW TWO
- 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. INDIVIDUAL PIPE SIZES ARE SPECIFIED ON GRADING AND DETAIL PLAN SHEETS.
- 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, SEDIMENT CONTROL PRACTICES REMOVED AND DISPOSED OF PROPERLY, AND ANNUAL MAINTENANCE PERFORMED ON ALL DRAINAGE PRACTICES.

SOILS LEGEND:

36B	ELDRIDGE	FINE SAND LOAM	K= 0.24
36C	ELDRIDGE	FINE SANDY LOAM	K= 0.24
36D	ELDRIDGE	FINE SANDY LOAM	K= 0.24
42A	CANTON	FINE SANDY LOAM	K= 0.28
86A	HOLLIS	FINE SANDY LOAM	K= 0.32
115A	SCARBORO	MUCK	K= 0.17
135B	CHATFIELD	VARIANT-NEWFIELDS COMPLEX	K= 0.20
135C	CHATFIELD	VARIANT-NEWFIELDS COMPLEX	K= 0.20
135D	CHATFIELD	VARIANT-NEWFIELDS COMPLEX	K= 0.20
313A	DEERFIELD	LOAMY SAND	K= 0.17
313B	DEERFIELD	LOAMY SAND	K= 0.17
313C	DEERFIELD	LOAMY SAND	K= 0.17
314B	PIPESTONE	FINE SANDY LOAM	K= 0.17
314C	PIPESTONE	FINE SANDY LOAM	K= 0.17
444A	NEWFIELDS	FINE SANDY LOAM	K= 0.28
444B	NEWFIELDS	FINE SANDY LOAM	K= 0.28
444C	NEWFIELDS	FINE SANDY LOAM	K= 0.28
500A	UNDORTHANTS	LOAMY	K= N/A
500B	UNDORTHANTS	LOAMY	K= N/A
500C	UNDORTHANTS	LOAMY	K= N/A
500D	UNDORTHANTS	LOAMY	K= N/A
500E	UNDORTHANTS	LOAMY	K= N/A
500F	UNDORTHANTS	LOAMY	K= N/A
941B	NEWFIELDS	VARIANT	K= 0.28
941C	NEWFIELDS	VARIANT	K= 0.28

SOILS & DRAINAGE:

SEE SITE SPECIFIC SOILS MAP (SSSM)

SEE WEBSOIL USDA-NRCS
ERODIBILITY FACTOR - K, CPESC MANUAL, ENVIROCERT INTERNATIONAL INC. &
ROCKINGHAM COUNTY SOIL SURVEY, ROCKWEB SOIL ATTRIBUTES

THE SOIL ERODIBILITY FACTOR (K) OF THE SOILS VARY FROM RELATIVELY LOW (K=0.17), TO RELATIVELY HIGH (K=0.43) CONTRACTOR TO BE AWARE OF THE SOIL PROFILES AND ENSURE THAT PROPER EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE TAKEN AT ALL TIMES. ANY DRAINAGE REQUIREMENTS IN NEW HAMPSHIRE REQUIRE SPECIAL PROVISIONS IN ACCORDANCE WITH THE "CLARIFICATION OF SECTION 9.1.2 (STATE OF NEW HAMPSHIRE CONDITIONS) AND OTHER NH SPECIFIC INFORMATION FOR THE U.S. EPA 2012 NPDES CONSTRUCTION GENERAL PERMIT (CGP) DATED MAY 3, 2012 INCLUDED IN THE SWPPP.

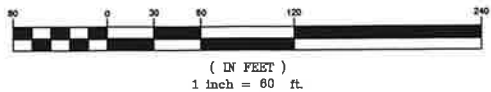
COVER MANAGEMENT DURING CONSTRUCTION FOR EXPOSED SOIL WILL INCLUDE HAY / STRAW APPLIED AT A RATE OF 2.0 TONS PER ACRE, TEMPORARY SEEDING OF ANNUAL RYE GRASS, AND PERMANENT SEEDING AT THE EARLIEST OPPORTUNITY. SEE ADDITIONAL REQUIREMENT FOR STABILIZATION ON THE EROSION AND SEDIMENT CONTROL DETAIL SHEETS, E-101 AND E-102.

THE CONSTRUCTION SCHEDULE WILL BE MANAGED SO THAT ALL STORMWATER STRUCTURES WILL BE BUILT AND STABILIZED PRIOR TO RECEIVING SURFACE WATER RUNOFF. CONTRACTOR TO BE RESPONSIBLE FOR ALL DIVERSIONS DURING CONSTRUCTION AND FOR INTERIM SEDIMENT AND EROSION CONTROL MEASURES.

LEGEND:

- IRON PIPE (FND)
- IRON BOUND (FND)
- REBAR (FND)
- UTILITY POLE
- GUY WIRE
- WELL
- BENCHMARK
- CONIFEROUS TREE
- DECIDUOUS TREE
- SILT FENCE
- FILTREXX SILT/SSXX
- TREE LINE
- NRCS SOIL DELINEATION
- SOIL TYPE

GRAPHIC SCALE

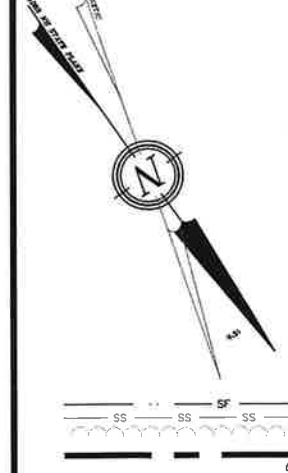
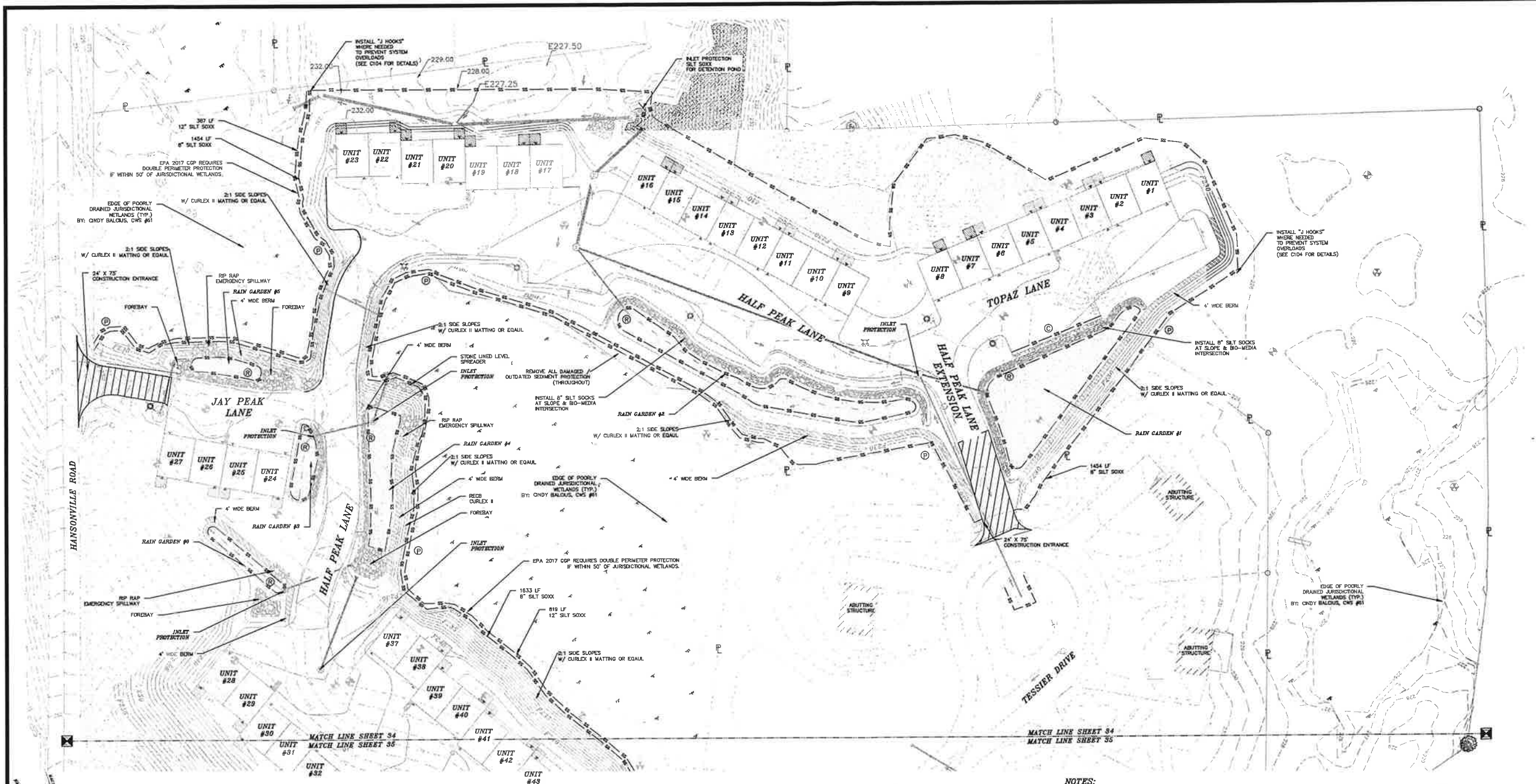


REVISION	DATE	DESCRIPTION
07-30-2018		SUBMITTED FOR CONSTRUCTION
06-18-2018		REVISED PER ACT COMMENT
05-24-2018		NHDES WEB RESPONSE
05-02-2018		AOT REVISIONS
04-11-2018		SEWER & WATER REVISIONS
03-30-2018		GENERAL PLAN SET
03-30-2018		GENERAL PLAN SET

OVERVIEW EROSION AND SEDIMENT CONTROL PLAN
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)352-2863
SCALE : 1 IN. EQUALS 60 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167





LEGEND:

- SEDIMENT PROTECTION
- RAIN GARDEN
- PERMETER
- CONSTRUCTION
- IRON PIPE (FND)
- IRON BOUND (FND)
- REBAR (FND)
- UTILITY POLE
- GUY WIRE
- WELL
- BENCHMARK
- CONIFEROUS TREE
- DECIDUOUS TREE
- SILT FENCE
- FILTREXX SILTBOX
- TREE LINE
- NRCS SOIL DELINEATION
- SOIL TYPE

SOILS LEGEND:

38B	ELDRIDGE	FINE SAND LOAM	K= 0.24
38C	ELDRIDGE	FINE SANDY LOAM	K= 0.24
38D	ELDRIDGE	FINE SANDY LOAM	K= 0.24
42A	CANTON	FINE SANDY LOAM	K= 0.28
86A	HOLLIS	FINE SANDY LOAM	K= 0.32
115A	SCARBORO	MUCK	K= 0.17
135D	CHATFIELD	VARIANT-NEWFIELDS COMPLEX	K= 0.20
136C	CHATFIELD	VARIANT-NEWFIELDS COMPLEX	K= 0.20
136D	CHATFIELD	VARIANT-NEWFIELDS COMPLEX	K= 0.20
313A	DEERFIELD	LOAMY SAND	K= 0.17
313B	DEERFIELD	LOAMY SAND	K= 0.17
313C	DEERFIELD	LOAMY SAND	K= 0.17
314B	PIPESTONE	FINE SANDY LOAM	K= 0.17
314C	PIPESTONE	FINE SANDY LOAM	K= 0.17
444A	NEWFIELDS	FINE SANDY LOAM	K= 0.28
444B	NEWFIELDS	FINE SANDY LOAM	K= 0.28
444C	NEWFIELDS	FINE SANDY LOAM	K= 0.28
600A	UNDORHANTS	LOAMY	K= N/A
600B	UNDORHANTS	LOAMY	K= N/A
600C	UNDORHANTS	LOAMY	K= N/A
600D	UNDORHANTS	LOAMY	K= N/A
600E	UNDORHANTS	LOAMY	K= N/A
600F	UNDORHANTS	LOAMY	K= N/A
941B	NEWFIELDS	VARIANT	K= 0.28
941C	NEWFIELDS	VARIANT	K= 0.28

SOILS & DEWATERING:

SEE SITE SPECIFIC SOILS MAP (SSSM)
SEE WEBSOIL USDA-NRCS
ERODIBILITY FACTOR - K, QPSC MANUAL, ENVIROTECH INTERNATIONAL INC. &
STRAFFORD COUNTY SOIL SURVEY, ROCKWEB SOIL ATTRIBUTES

THE SOIL ERODIBILITY FACTOR (K) OF THE SOILS VARY FROM RELATIVELY LOW (K=0.17) TO RELATIVELY HIGH (K=0.43). CONTRACTOR TO BE AWARE OF THE SOIL PROFILES AND ENSURE THAT PROPER EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE TAKEN AT ALL TIMES. ANY DEWATERING REQUIREMENTS IN NEW HAMPSHIRE REQUIRE SPECIAL PROVISIONS IN ACCORDANCE WITH THE "CLARIFICATION OF SECTION 9.1.2 (STATE OF NEW HAMPSHIRE CONDITIONS) AND OTHER NH SPECIFIC INFORMATION FOR THE U.S. EPA 2012 NPDES CONSTRUCTION GENERAL PERMIT (CGP)" DATED MAY 3, 2012 INCLUDED IN THE SWPPP.

COVER MANAGEMENT DURING CONSTRUCTION FOR EXPOSED SOIL WILL INCLUDE HAY / STRAW APPLIED AT A RATE OF 2.0 TONS PER ACRE, TEMPORARY SEEDING OF ANNUAL RYE GRASS, AND PERMANENT SEEDING AT THE EARLIEST OPPORTUNITY. SEE ADDITIONAL REQUIREMENT FOR STABILIZATION ON THE EROSION AND SEDIMENT CONTROL DETAIL SHEETS, E-101 AND E-102.

THE CONSTRUCTION SCHEDULE WILL BE MANAGED SO THAT ALL STORMWATER STRUCTURES WILL BE BUILT AND STABILIZED PRIOR TO RECEIVING SURFACE WATER RUNOFF. CONTRACTOR TO BE RESPONSIBLE FOR ALL DIVERSIONS DURING CONSTRUCTION AND FOR INTERIM SEDIMENT AND EROSION CONTROL MEASURES.

NOTES:

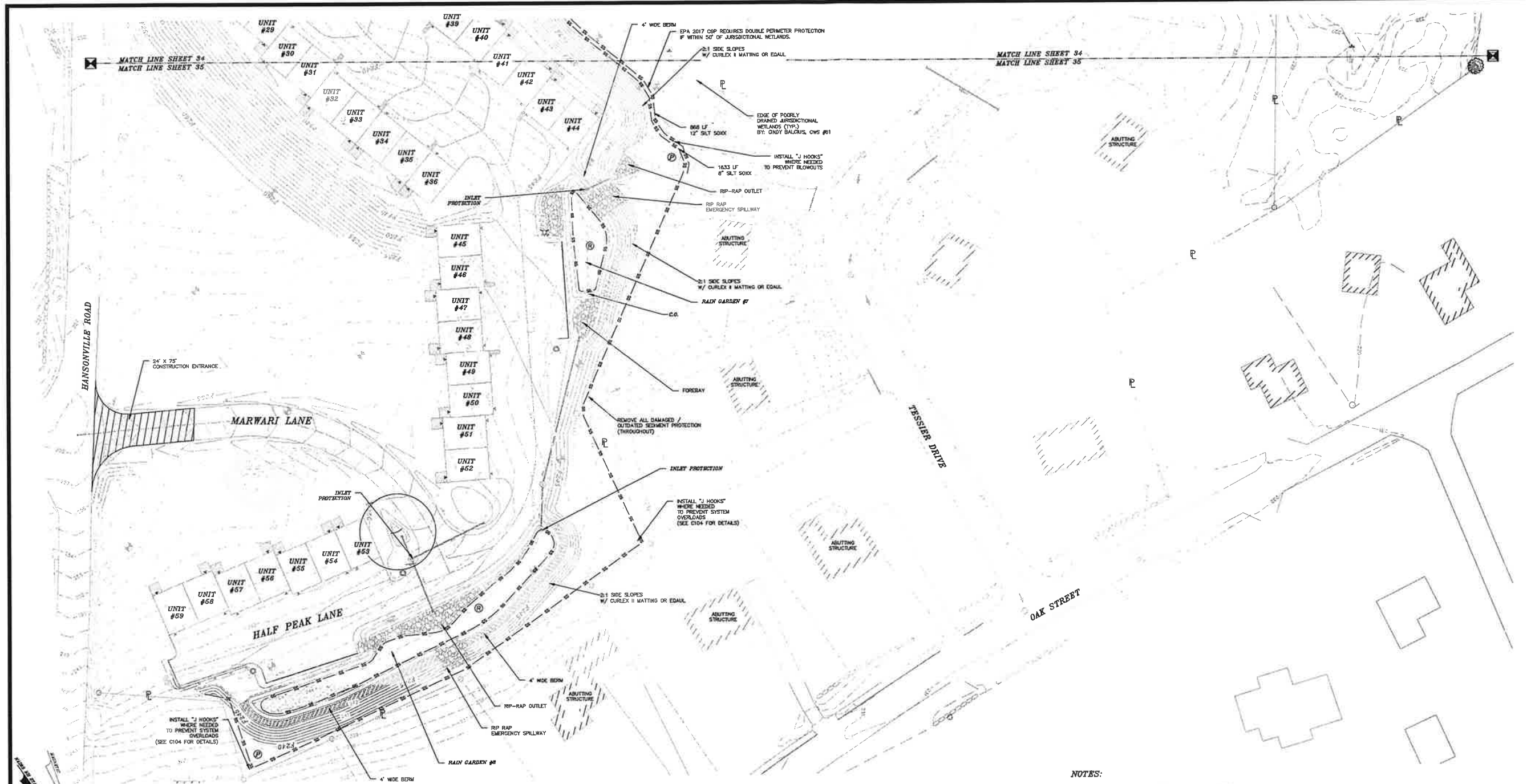
- 1.) CURRENT OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857
- 2.) APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1287
NORTH HAMPTON, NH 03862
- 3.) TAX MAP 251, LOT 120 & 121
- 4.) THE PURPOSE OF THIS PLAN IS TO DEMONSTRATE PROPER EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION PRACTICES FOR LEDGEVIEW TWO
- 5.) 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.
- 6.) 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.
- 7.) SEE DETAILS CONCERNING SITE LAYOUT, DRAINAGE, UTILITY AND SEDIMENT AND EROSION CONTROLS.
- 8.) ALL DRAINAGE PIPE IS TO BE HDPE N-12. INDIVIDUAL PIPE SIZES ARE SPECIFIED ON GRADING AND DETAIL PLAN SHEETS.
- 9.) 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.
- 10.) UPON FINAL COMPLETION AND 85% STABILIZATION, THE DRAINAGE SYSTEM IS TO BE CLEANED OF ALL DEBRIS. SEDIMENT CONTROL PRACTICES REMOVED AND DISPOSED OF PROPERLY, AND ANNUAL MAINTENANCE PERFORMED ON ALL DRAINAGE PRACTICES.

REVISION	DATE	DESCRIPTION
07-30-2018		SUBMITTED FOR CONSTRUCTION
08-18-2018		REVISED PER ACT COMMENT
09-24-2018		NIDES WEB RESPONSE
09-02-2018		ACT REVISIONS
09-14-2018		ACT REVISIONS
04-09-2018		GENERAL PLAN SET
03-30-2018		GENERAL PLAN SET

35 SOUTH EROSION AND SEDIMENT CONTROL PLAN
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE: 1 IN. EQUALS 40 FT.
DATE: JANUARY 22, 2018
FILE NO.: DB 2017 - 167





- LEGEND:**
- RAIN GARDEN BIO-MEDIA PROTECTION
 - PERIMETER CONTROL
 - RESIDENTIAL/ROADWAY CONSTRUCTION
 - IRON PIPE (FND)
 - IRON BOUND (FND)
 - REBAR (FND)
 - UTILITY POLE
 - GUY WIRE
 - WELL
 - BENCHMARK
 - CONIFEROUS TREE
 - DECIDUOUS TREE
 - SILT FENCE
 - FILTREX SILT/SOXX
 - TREE LINE
 - NRCS SOIL DELINEATION
 - SOIL TYPE

SOILS LEGEND:

38B	ELDRIDGE	FINE SAND LOAM	K= 0.24
38C	ELDRIDGE	FINE SANDY LOAM	K= 0.24
38D	ELDRIDGE	FINE SANDY LOAM	K= 0.24
42A	CANTON	FINE SANDY LOAM	K= 0.28
56A	HOLLIS	FINE SANDY LOAM	K= 0.32
115A	SCARBORO	MUCK	K= 0.17
135B	CHATFIELD	VARIANT-NEWFIELDS COMPLEX	K= 0.20
135C	CHATFIELD	VARIANT-NEWFIELDS COMPLEX	K= 0.20
185D	CHATFIELD	VARIANT-NEWFIELDS COMPLEX	K= 0.20
313A	DEERFIELD	LOAMY SAND	K= 0.17
313B	DEERFIELD	LOAMY SAND	K= 0.17
313C	DEERFIELD	LOAMY SAND	K= 0.17
314B	PIPESTONE	FINE SANDY LOAM	K= 0.17
314C	PIPESTONE	FINE SANDY LOAM	K= 0.17
444A	NEWFIELDS	FINE SANDY LOAM	K= 0.28
444B	NEWFIELDS	FINE SANDY LOAM	K= 0.28
444C	NEWFIELDS	FINE SANDY LOAM	K= 0.28
600A	UNDOROTHANTS	LOAMY	K= N/A
600B	UNDOROTHANTS	LOAMY	K= N/A
600C	UNDOROTHANTS	LOAMY	K= N/A
600D	UNDOROTHANTS	LOAMY	K= N/A
600E	UNDOROTHANTS	LOAMY	K= N/A
600F	UNDOROTHANTS	LOAMY	K= N/A
941B	NEWFIELDS	VARIANT	K= 0.28
941C	NEWFIELDS	VARIANT	K= 0.28

SOILS & DEWATERING:

SEE SITE SPECIFIC SOILS MAP (SSSM)

SEE WEBSOIL USDA-NRCS

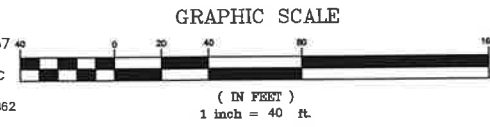
ERODIBILITY FACTOR - K, CPESC MANUAL, ENVIROCERT INTERNATIONAL INC. & ROCKINGHAM COUNTY SOIL SURVEY, ROCKWEB SOIL ATTRIBUTES

THE SOIL ERODIBILITY FACTOR (K) OF THE SOILS VARY FROM RELATIVELY LOW (K=0.17) TO RELATIVELY HIGH (K=0.43) CONTRACTOR TO BE AWARE OF THE SOIL PROFILES AND ENSURE THAT PROPER EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE TAKEN AT ALL TIMES. ANY DEWATERING REQUIREMENTS IN NEW HAMPSHIRE REQUIRE SPECIAL PROVISIONS IN ACCORDANCE WITH THE "CLARIFICATION OF SECTION 9.1.2 (STATE OF NEW HAMPSHIRE CONDITIONS) AND OTHER NH SPECIFIC INFORMATION FOR THE U.S. EPA 2012 NPDES CONSTRUCTION GENERAL PERMIT (CGP)" DATED MAY 3, 2012 INCLUDED IN THE SWPPP.

COVER MANAGEMENT DURING CONSTRUCTION FOR EXPOSED SOIL WILL INCLUDE HAY / STRAW APPLIED AT A RATE OF 2.0 TONS PER ACRE, TEMPORARY SEEDING OF ANNUAL RYE GRASS, AND PERMANENT SEEDING AT THE EARLIEST OPPORTUNITY. SEE ADDITIONAL REQUIREMENT FOR STABILIZATION ON THE EROSION AND SEDIMENT CONTROL DETAIL SHEETS, E-101 AND E-102.

THE CONSTRUCTION SCHEDULE WILL BE MANAGED SO THAT ALL STORMWATER STRUCTURES WILL BE BUILT AND STABILIZED PRIOR TO RECEIVING SURFACE WATER RUNOFF. CONTRACTOR TO BE RESPONSIBLE FOR ALL DIVERSIONS DURING CONSTRUCTION AND FOR INTERIM SEDIMENT AND EROSION CONTROL MEASURES.

- NOTES:**
- CURRENT OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857
 - APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
NORTH HAMPTON, NH 03862
 - A) TAX MAP 251, LOT 120 & 121
 - THE PURPOSE OF THIS PLAN IS TO DEMONSTRATE PROPER EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION PRACTICES FOR LEDGEWEE TWO
 - 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.
 - 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.
 - SEE DETAILS CONCERNING SITE LAYOUT, DRAINAGE, UTILITY AND SEDIMENT AND EROSION CONTROLS.
 - ALL DRAINAGE PIPE IS TO BE HDPE N-12. INDIVIDUAL PIPE SIZES ARE SPECIFIED ON GRADING AND DETAIL PLAN SHEETS.
 - 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.
 - UPON FINAL COMPLETION AND 85% STABILIZATION, THE DRAINAGE SYSTEM IS TO BE CLEANED OF ALL DEBRIS. SEDIMENT CONTROL PRACTICES REMOVED AND DISPOSED OF PROPERLY, AND ANNUAL MAINTENANCE PERFORMED ON ALL DRAINAGE PRACTICES.



35 NORTH EROSION AND SEDIMENT CONTROL PLAN

LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)352-2863
SCALE: 1 IN. EQUALS 40 FT.
DATE: JANUARY 22, 2018
FILE NO.: DB 2017 - 167

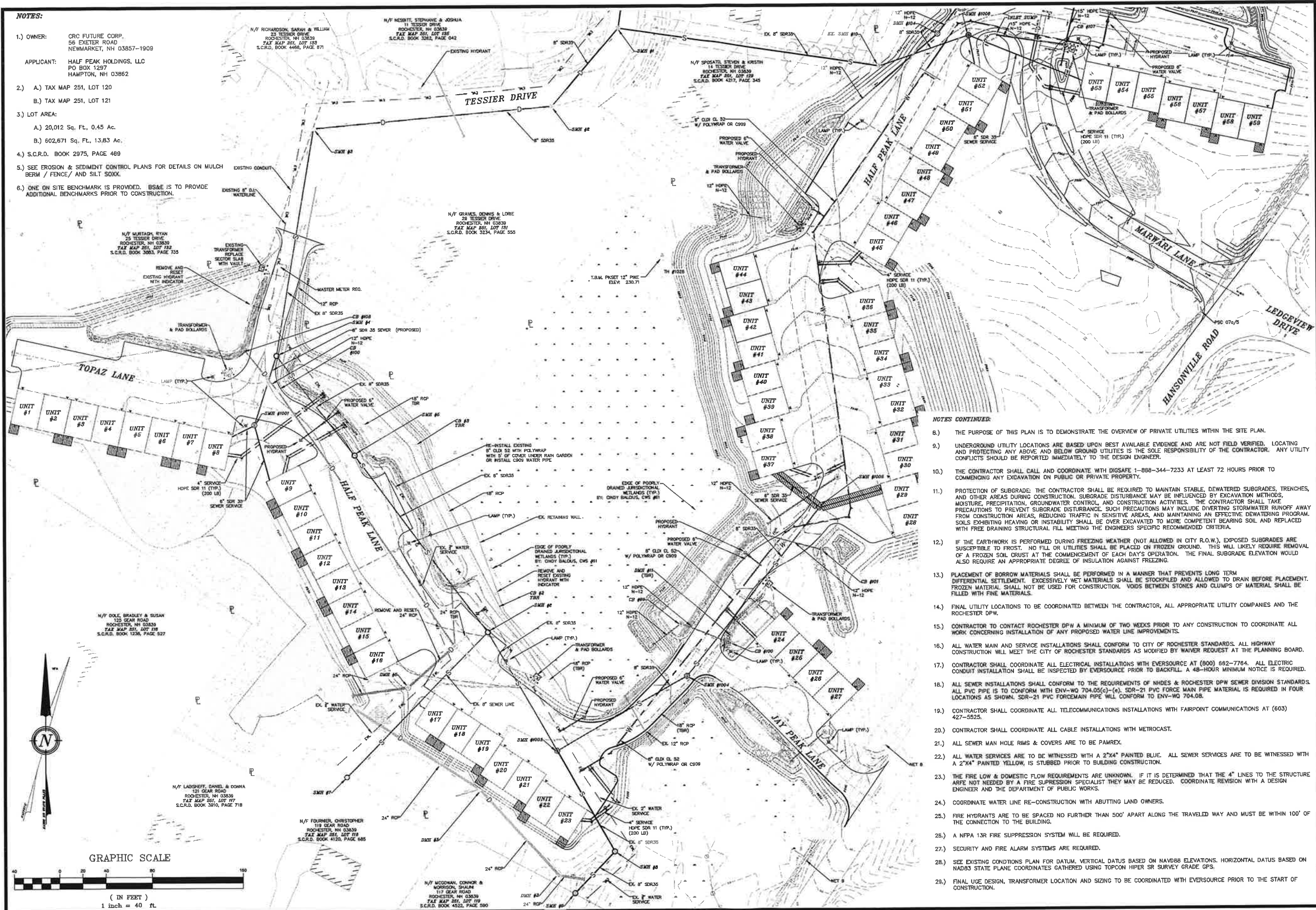
STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 1474
LICENSED PROFESSIONAL ENGINEER

REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER AOT COMMENT
#6b	05-24-2018	NHDES WEB RESPONSE
#4	05-02-2018	AOT REVISIONS
#3	04-11-2018	GENERAL PLAN SET
#2	03-30-2018	GENERAL PLAN SET

SHEET 35 OF 76

NOTES:

- 1.) OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857-1909
- APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
HAMPTON, NH 03862
- 2.) A.) TAX MAP 251, LOT 120
B.) TAX MAP 251, LOT 121
- 3.) LOT AREA:
A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.
- 4.) S.C.R.D. BOOK 2975, PAGE 489
- 5.) SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON MULCH BERM / FENCE / AND SILT SOXX.
- 6.) ONE ON SITE BENCHMARK IS PROVIDED. B.S&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.



NOTES CONTINUED:

- 8.) THE PURPOSE OF THIS PLAN IS TO DEMONSTRATE THE OVERVIEW OF PRIVATE UTILITIES WITHIN THE SITE PLAN.
- 9.) 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.
- 10.) 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.
- 11.) PROTECTION OF SUBGRADE: THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN STABLE, DEWATERED SUBGRADES, TRENCHES, AND OTHER AREAS DURING CONSTRUCTION. SUBGRADE DISTURBANCE MAY BE INFLUENCED BY EXCAVATION METHODS, MOISTURE, PRECIPITATION, GROUNDWATER CONTROL, AND CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT SUBGRADE DISTURBANCE. SUCH PRECAUTIONS MAY INCLUDE DIVERTING STORMWATER RUNOFF AWAY FROM CONSTRUCTION AREAS, REDUCING TRAFFIC IN SENSITIVE AREAS, AND MAINTAINING AN EFFECTIVE DEWATERING PROGRAM. SOILS EXHIBITING HEAVING OR INSTABILITY SHALL BE OVER EXCAVATED TO MORE COMPETENT BEARING SOIL AND REPLACED WITH FREE DRAINING STRUCTURAL FILL MEETING THE ENGINEER'S SPECIFIC RECOMMENDED CRITERIA.
- 12.) IF THE EARTHWORK IS PERFORMED DURING FREEZING WEATHER (NOT ALLOWED IN CITY R.O.W.), EXPOSED SUBGRADES ARE SUSCEPTIBLE TO FROST. NO FILL OR UTILITIES SHALL BE PLACED ON FROZEN GROUND. THIS WILL LIKELY REQUIRE REMOVAL OF A FROZEN SOIL CRUST AT THE COMMENCEMENT OF EACH DAY'S OPERATION. THE FINAL SUBGRADE ELEVATION WOULD ALSO REQUIRE AN APPROPRIATE DEGREE OF INSULATION AGAINST FREEZING.
- 13.) PLACEMENT OF BORROW MATERIALS SHALL BE PERFORMED IN A MANNER THAT PREVENTS LONG TERM DIFFERENTIAL SETTLEMENT. EXCESSIVELY WET MATERIALS SHALL BE STOCKPILED AND ALLOWED TO DRAIN BEFORE PLACEMENT. FROZEN MATERIAL SHALL NOT BE USED FOR CONSTRUCTION. VOIDS BETWEEN STONES AND CLUMPS OF MATERIAL SHALL BE FILLED WITH FINE MATERIALS.
- 14.) FINAL UTILITY LOCATIONS TO BE COORDINATED BETWEEN THE CONTRACTOR, ALL APPROPRIATE UTILITY COMPANIES AND THE ROCHESTER DPW.
- 15.) CONTRACTOR TO CONTACT ROCHESTER DPW A MINIMUM OF TWO WEEKS PRIOR TO ANY CONSTRUCTION TO COORDINATE ALL WORK CONCERNING INSTALLATION OF ANY PROPOSED WATER LINE IMPROVEMENTS.
- 16.) ALL WATER MAIN AND SERVICE INSTALLATIONS SHALL CONFORM TO CITY OF ROCHESTER STANDARDS. ALL HIGHWAY CONSTRUCTION WILL MEET THE CITY OF ROCHESTER STANDARDS AS MODIFIED BY WAIVER REQUEST AT THE PLANNING BOARD.
- 17.) CONTRACTOR SHALL COORDINATE ALL ELECTRICAL INSTALLATIONS WITH EVERSOURCE AT (800) 882-7764. ALL ELECTRIC CONDUIT INSTALLATION SHALL BE INSPECTED BY EVERSOURCE PRIOR TO BACKFILL. A 48-HOUR MINIMUM NOTICE IS REQUIRED.
- 18.) ALL SEWER INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF NHDES & ROCHESTER DPW SEWER DIVISION STANDARDS. ALL PVC PIPE IS TO CONFORM WITH ENV-WQ 704.05(c)-(e). SDR-21 PVC FORCE MAIN PIPE MATERIAL IS REQUIRED IN FOUR LOCATIONS AS SHOWN. SDR-21 PVC FORCEMAIN PIPE WILL CONFORM TO ENV-WQ 704.08.
- 19.) CONTRACTOR SHALL COORDINATE ALL TELECOMMUNICATIONS INSTALLATIONS WITH FAIRPOINT COMMUNICATIONS AT (603) 427-5525.
- 20.) CONTRACTOR SHALL COORDINATE ALL CABLE INSTALLATIONS WITH METROCAST.
- 21.) ALL SEWER MAN HOLE RIMS & COVERS ARE TO BE PAMREX.
- 22.) ALL WATER SERVICES ARE TO BE WITNESSED WITH A 2"x4" PAINTED BLUE. ALL SEWER SERVICES ARE TO BE WITNESSED WITH A 2"x4" PAINTED YELLOW, IS STUBBED PRIOR TO BUILDING CONSTRUCTION.
- 23.) THE FIRE LOW & DOMESTIC FLOW REQUIREMENTS ARE UNKNOWN. IF IT IS DETERMINED THAT THE 4" LINES TO THE STRUCTURE ARE NOT NEEDED BY A FIRE SUPPRESSION SPECIALIST THEY MAY BE REDUCED. COORDINATE REVISION WITH A DESIGN ENGINEER AND THE DEPARTMENT OF PUBLIC WORKS.
- 24.) COORDINATE WATER LINE RE-CONSTRUCTION WITH ABUTTING LAND OWNERS.
- 25.) FIRE HYDRANTS ARE TO BE SPACED NO FURTHER THAN 500' APART ALONG THE TRAVELED WAY AND MUST BE WITHIN 100' OF THE CONNECTION TO THE BUILDING.
- 26.) A NFPA 13R FIRE SUPPRESSION SYSTEM WILL BE REQUIRED.
- 27.) SECURITY AND FIRE ALARM SYSTEMS ARE REQUIRED.
- 28.) SEE EXISTING CONDITIONS PLAN FOR DATUM. VERTICAL DATUM BASED ON NAVD88 ELEVATIONS. HORIZONTAL DATUM BASED ON NAD83 STATE PLANE COORDINATES GATHERED USING TOPCON HIPER SR SURVEY GRADE GPS.
- 29.) FINAL USE DESIGN, TRANSFORMER LOCATION AND SIZING TO BE COORDINATED WITH EVERSOURCE PRIOR TO THE START OF CONSTRUCTION.

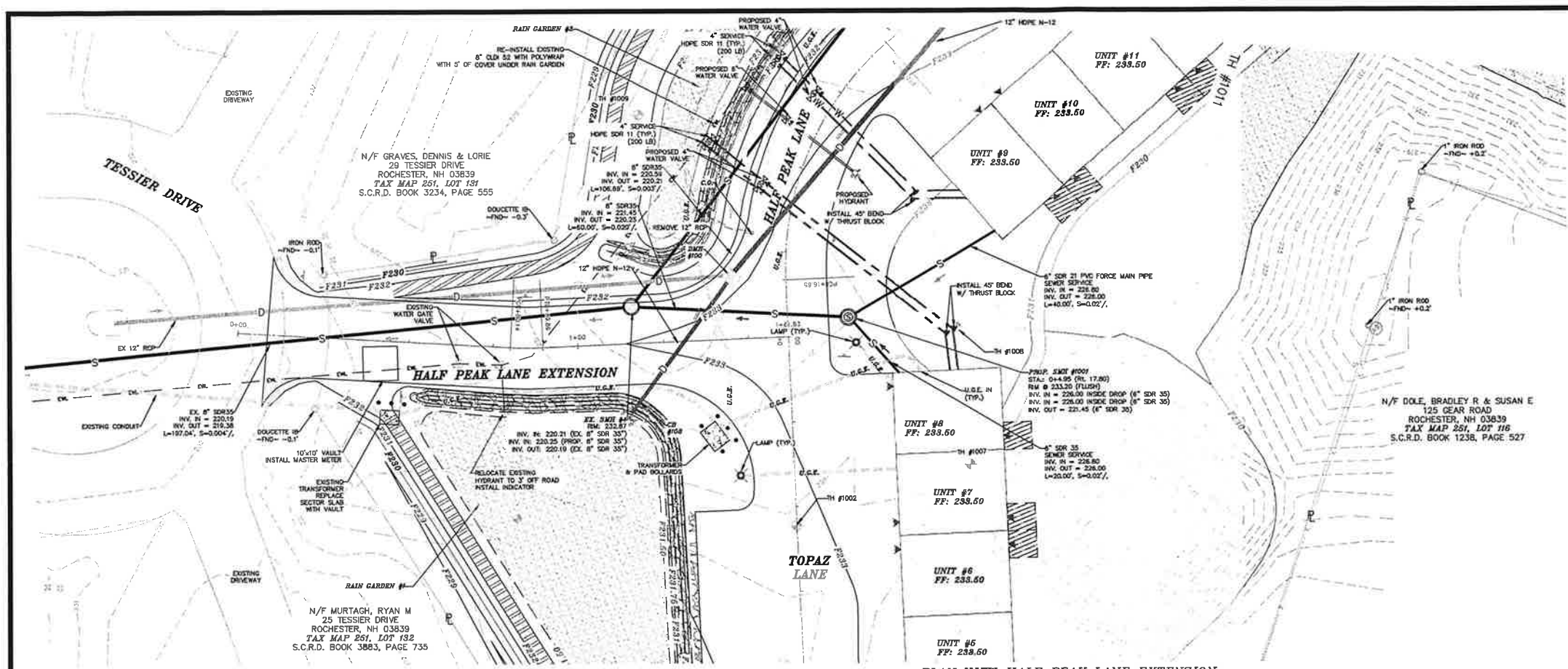
SUBMITTED FOR CONSTRUCTION
REVISED PER AOT COMMENT
NHDES WMB RESPONSE
AOT REVISIONS
GENERAL PLAN SET

REVISION	DATE	DESCRIPTION
#7	07-30-2018	
#6a	06-18-2018	
#5b	05-24-2018	
#4	05-02-2018	
#3	04-15-2018	
#2	04-03-2018	
#1	03-30-2018	

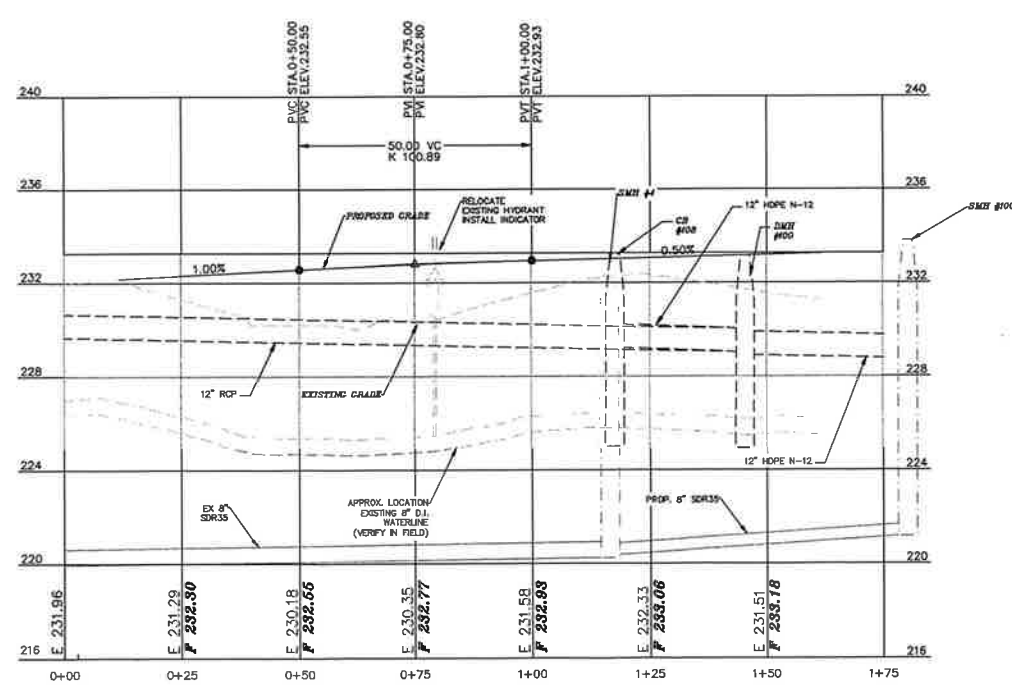
OVERVIEW UTILITY PLAN
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)352-2863
SCALE : 1 IN. EQUALS 40 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167

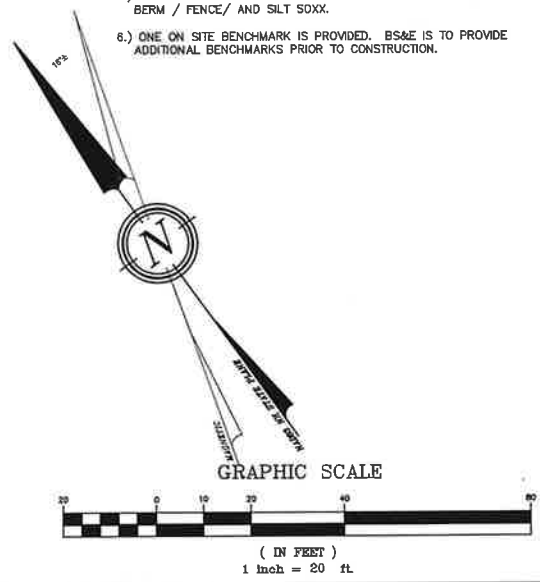




PLAN VIEW HALF PEAK LANE EXTENSION
PROFILE VIEW HALF PEAK LANE EXTENSION



- NOTES:**
- 1.) OWNER: CRC FUTURE CORP.
55 EXETER ROAD
NEWMARKET, NH 03857-1909
 - 2.) A.) TAX MAP 251, LOT 120
B.) TAX MAP 251, LOT 121
 - 3.) LOT AREA:
A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.
 - 4.) S.C.R.D. BOOK 2975, PAGE 469
 - 5.) SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON MULCH BERM / FENCE / AND SILT SOXX.
 - 6.) ONE ON SITE BENCHMARK IS PROVIDED. BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.

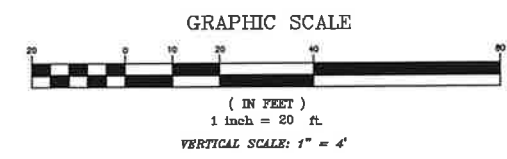


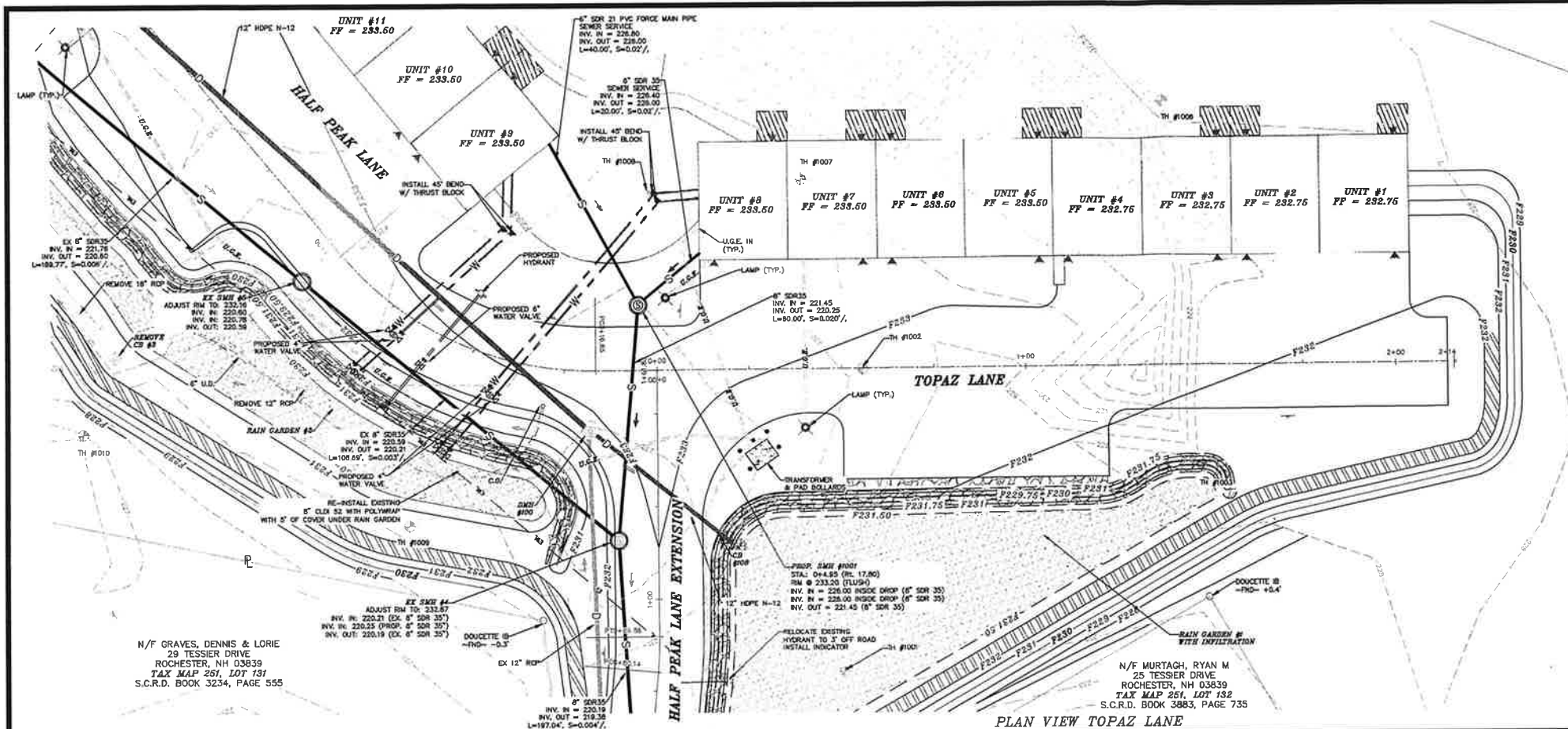
REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER ACT COMMENT
#5b	05-24-2018	REVISED PER RESPONSE
#4	05-02-2018	ADDITIONAL REVISIONS
#3	04-10-2018	ADDITIONAL REVISIONS
#2	03-30-2018	GENERAL PLAN SET
#1		GENERAL PLAN SET

UTILITY PLAN HALF PEAK LANE EXTENSION 0+00 TO END
CRC FUTURE CORP.
LAND OF
FOR
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167

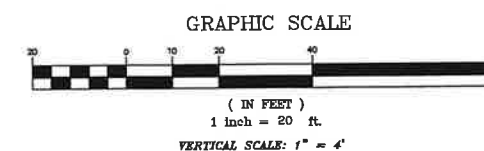
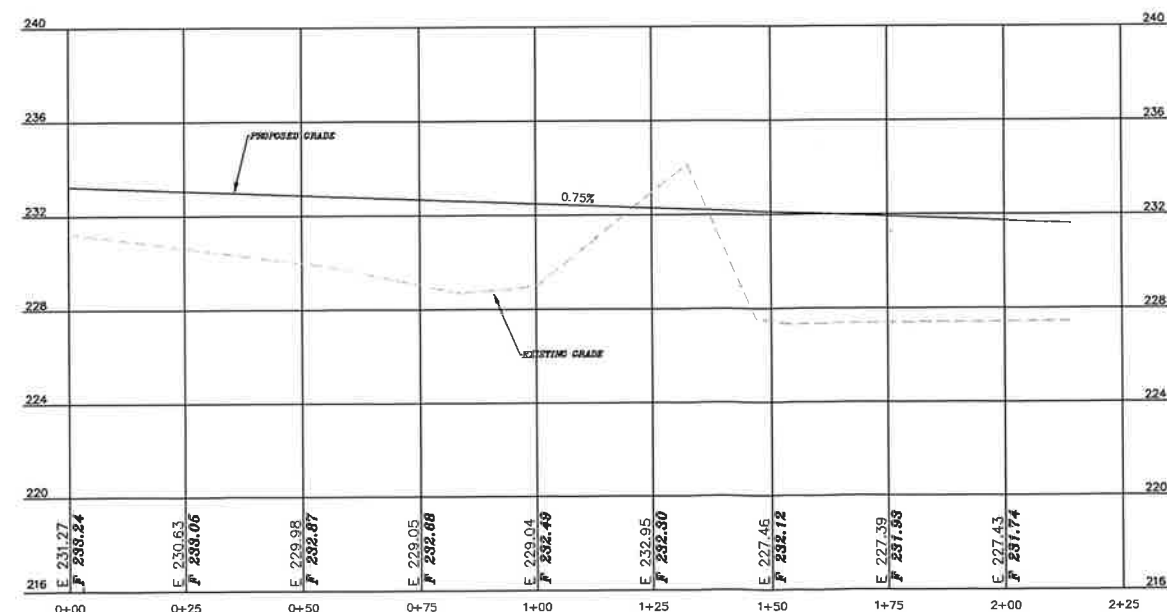
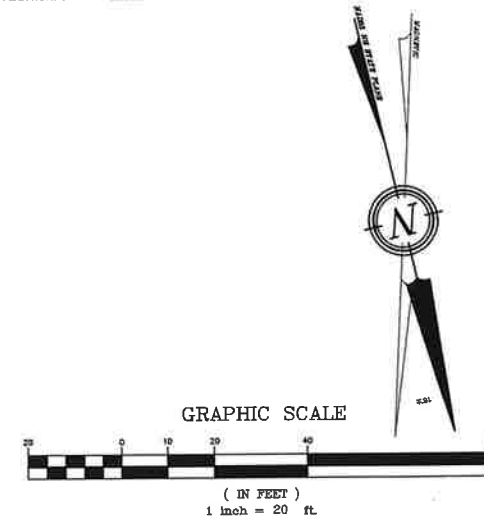
STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14743
PROFESSIONAL ENGINEER





NOTES:

- OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857-1909
- APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
HAMPTON, NH 03862
- A.) TAX MAP 251, LOT 120
B.) TAX MAP 251, LOT 121
- LOT AREA:
A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.
- S.C.R.D. BOOK 2975, PAGE 489
- SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON MULCH BERM / FENCE/ AND SILT SOXX.
- ONE ON SITE BENCHMARK IS PROVIDED. BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.



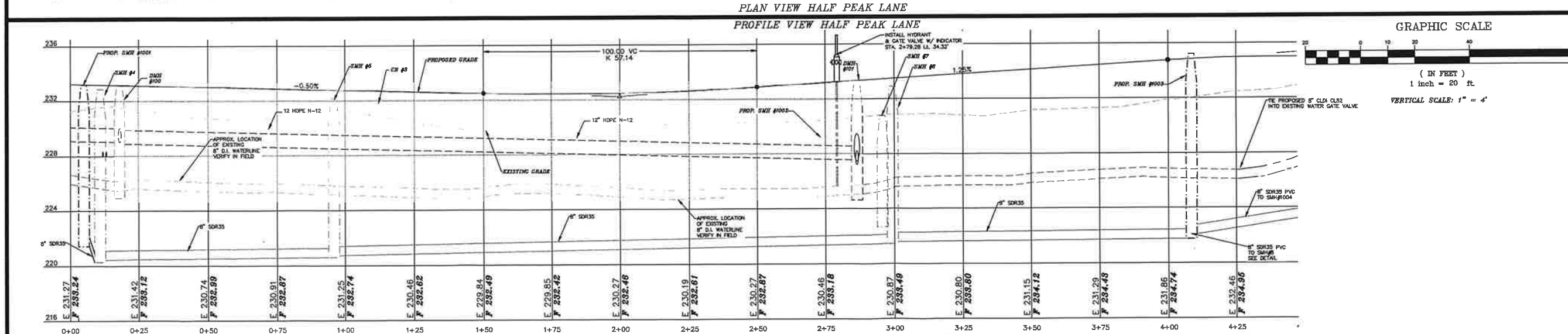
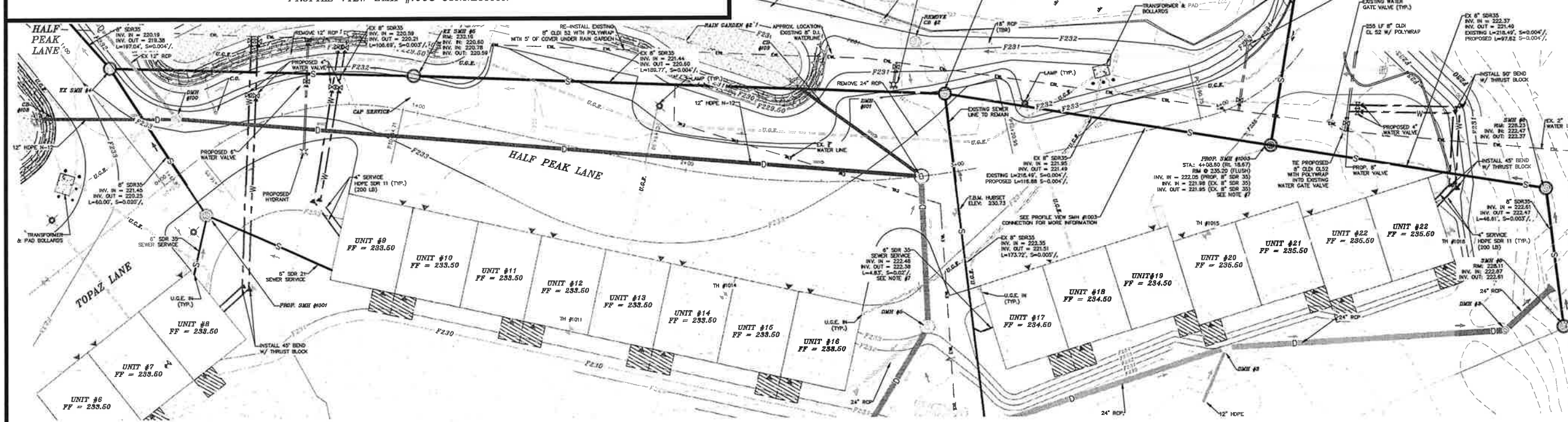
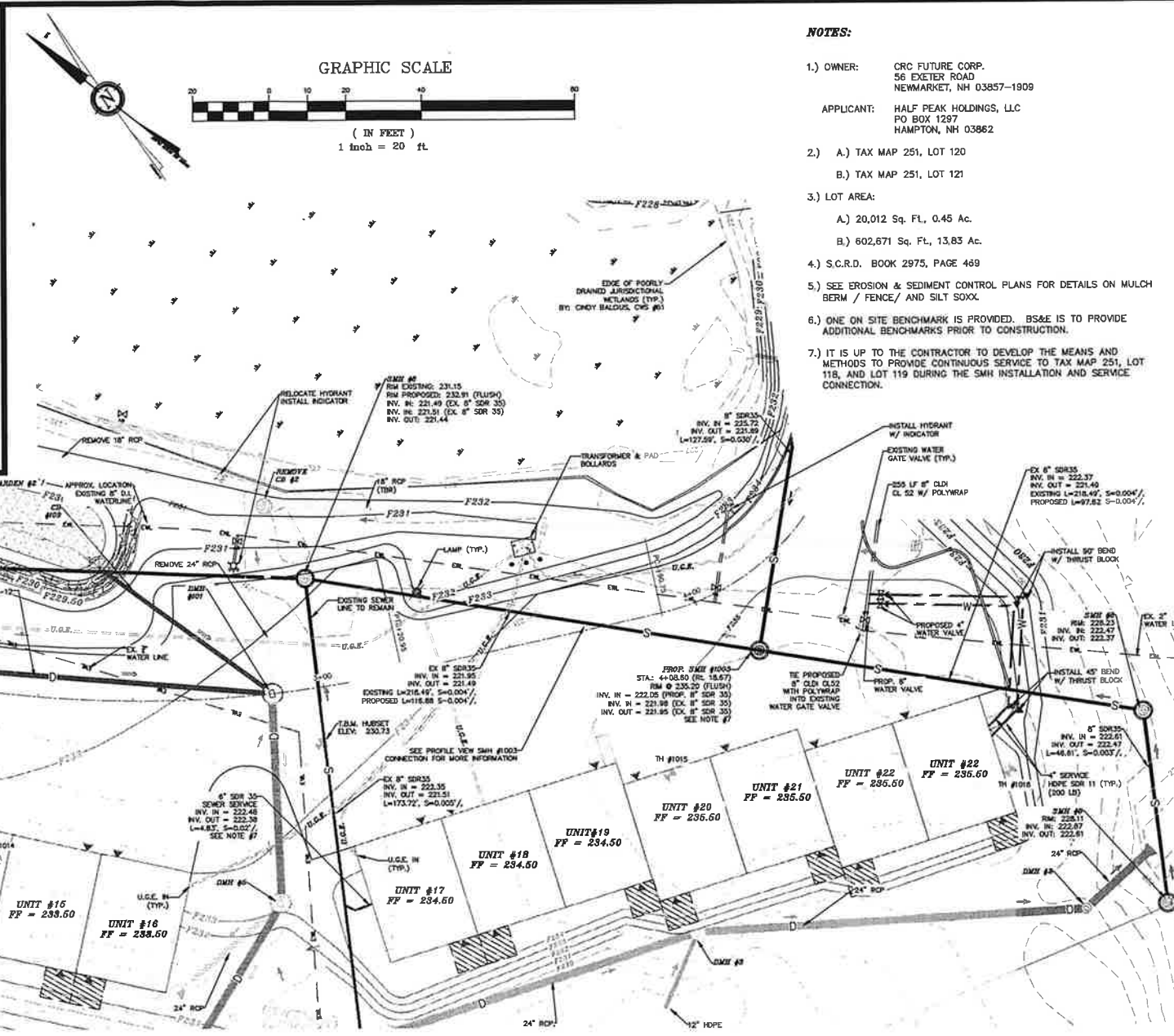
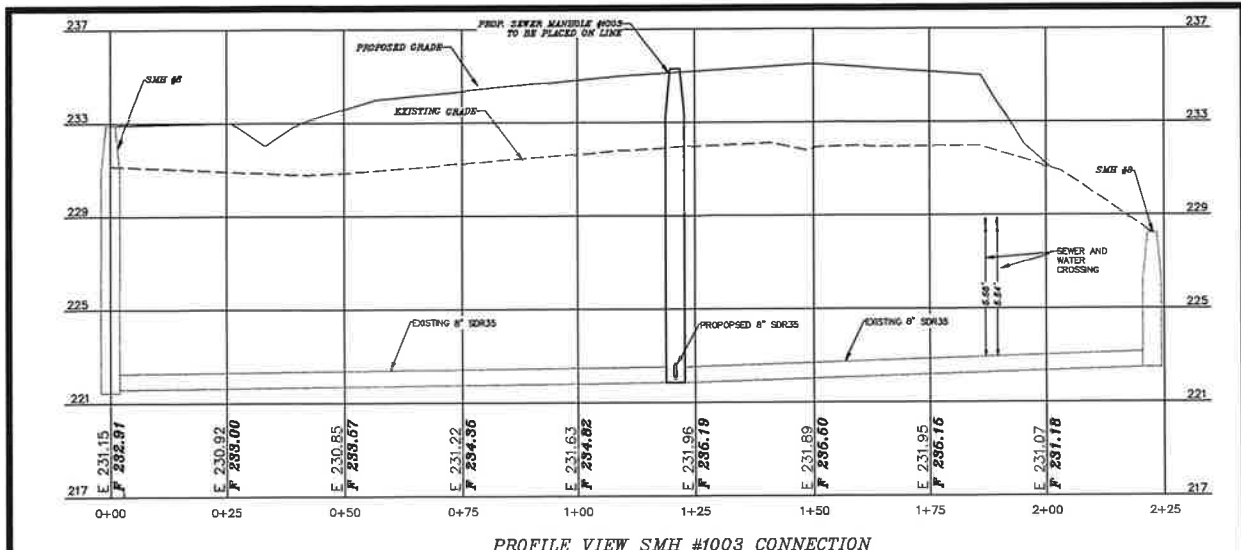
VERTICAL SCALE: 1" = 4'

REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER AOT COMMENT
#5b	05-24-2018	REVISED PER AOT COMMENT
#4	05-02-2018	AOT REVISIONS
#3	04-11-2018	GENERAL PLAN SET
#2	03-30-2018	GENERAL PLAN SET

UTILITY PLAN TOPAZ LANE 0+00 TO 2+14
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HAMPSHIRE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603) 352-2863
SCALE: 1 IN. EQUALS 20 FT.
DATE: JANUARY 22, 2018
FILE NO.: DB 2017 - 167





- NOTES:**
- 1.) OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEW MARKET, NH 03857-1909
 - 2.) A.) TAX MAP 251, LOT 120
B.) TAX MAP 251, LOT 121
 - 3.) LOT AREA:
A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.
 - 4.) S.C.R.D. BOOK 2975, PAGE 469
 - 5.) SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON MULCH BERM / FENCE/ AND SILT SOXX.
 - 6.) ONE ON SITE BENCHMARK IS PROVIDED. BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.
 - 7.) IT IS UP TO THE CONTRACTOR TO DEVELOP THE MEANS AND METHODS TO PROVIDE CONTINUOUS SERVICE TO TAX MAP 251, LOT 118, AND LOT 119 DURING THE SMH INSTALLATION AND SERVICE CONNECTION.

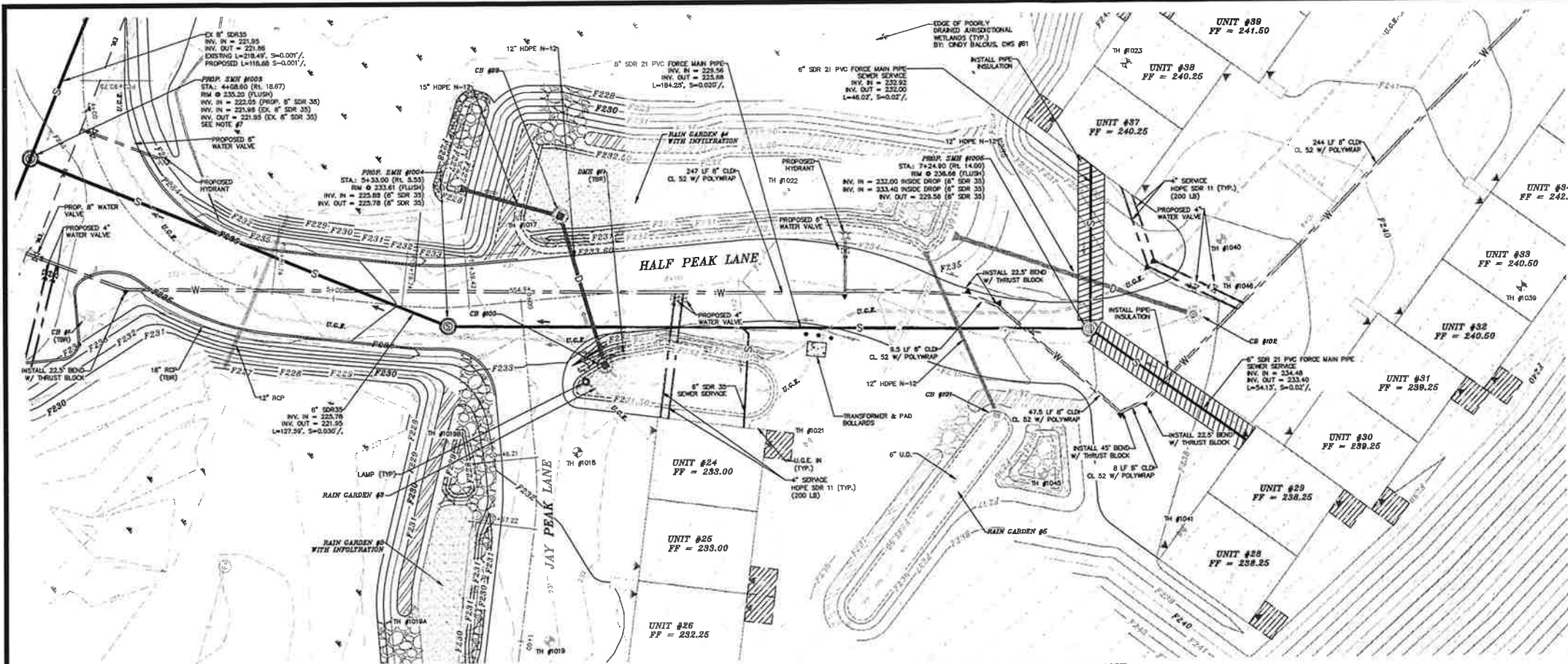
REVISION	DATE	DESCRIPTION
07-30-2018		SUBMITTED FOR CONSTRUCTION
08-16-2018		REVISED PER ACT COMMENT
09-24-2018		NHDES WEB RESPONSE
09-24-2018		AOT REVISIONS
04-10-2018		REVISIONS
03-30-2018		SEWER & WATER SET GENERAL PLAN SET

UTILITY PLAN HALF PEAK LANE 0+00 TO 4+25

LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

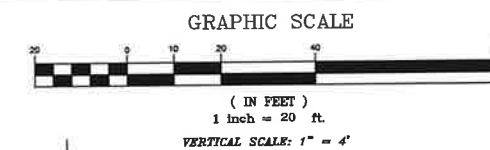
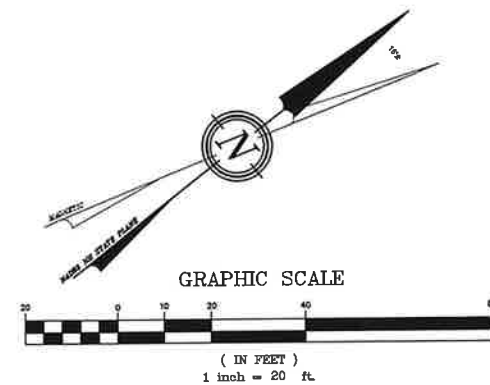
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)352-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167



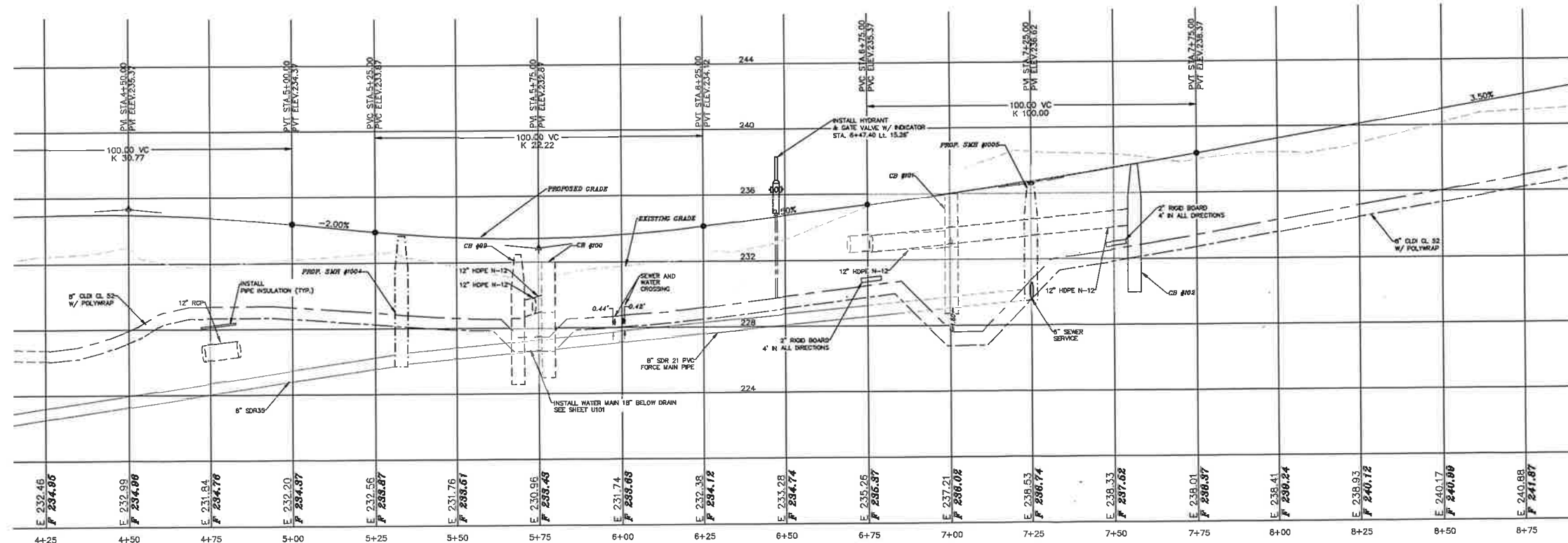


PLAN VIEW HALF PEAK LANE
PROFILE VIEW HALF PEAK LANE

- NOTES:**
- 1.) OWNER: ORC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857-1909
 - 2.) APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
HAMPTON, NH 03862
 - 3.) A.) TAX MAP 251, LOT 120
B.) TAX MAP 251, LOT 121
 - 4.) LOT AREA:
A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.
 - 5.) S.C.R.D. BOOK 2975, PAGE 469
 - 6.) SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON MULCH BERM / FENCE / AND SILT SOXX.
 - 7.) ONE ON SITE BENCHMARK IS PROVIDED. BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.
 - 8.) BETWEEN SMH 1004 AND SMH 1005, 8-INCH SDR 21 PVC FORCE MAIN PIPE MATERIAL IS REQUIRED AND WILL BE LAID BETWEEN THE STRUCTURES. SIX-INCH SDR 21 PVC FORCE MAIN PIPE MATERIAL IS REQUIRED FOR THE SERVICE OF BOTH BUILDING. SERVICES WILL REQUIRE INSULATION WHEN DEPTH IS LESS THAN SIX-FEET.



VERTICAL SCALE: 1" = 4'



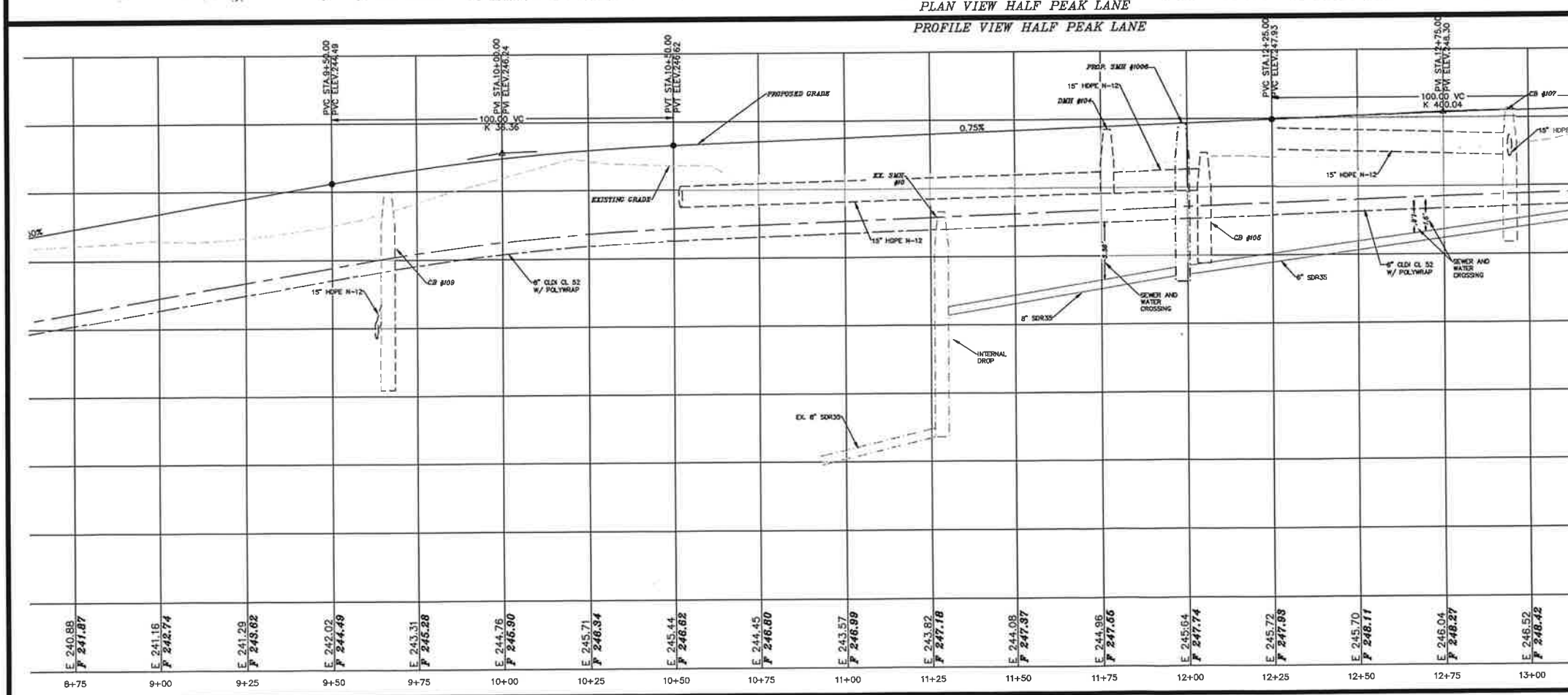
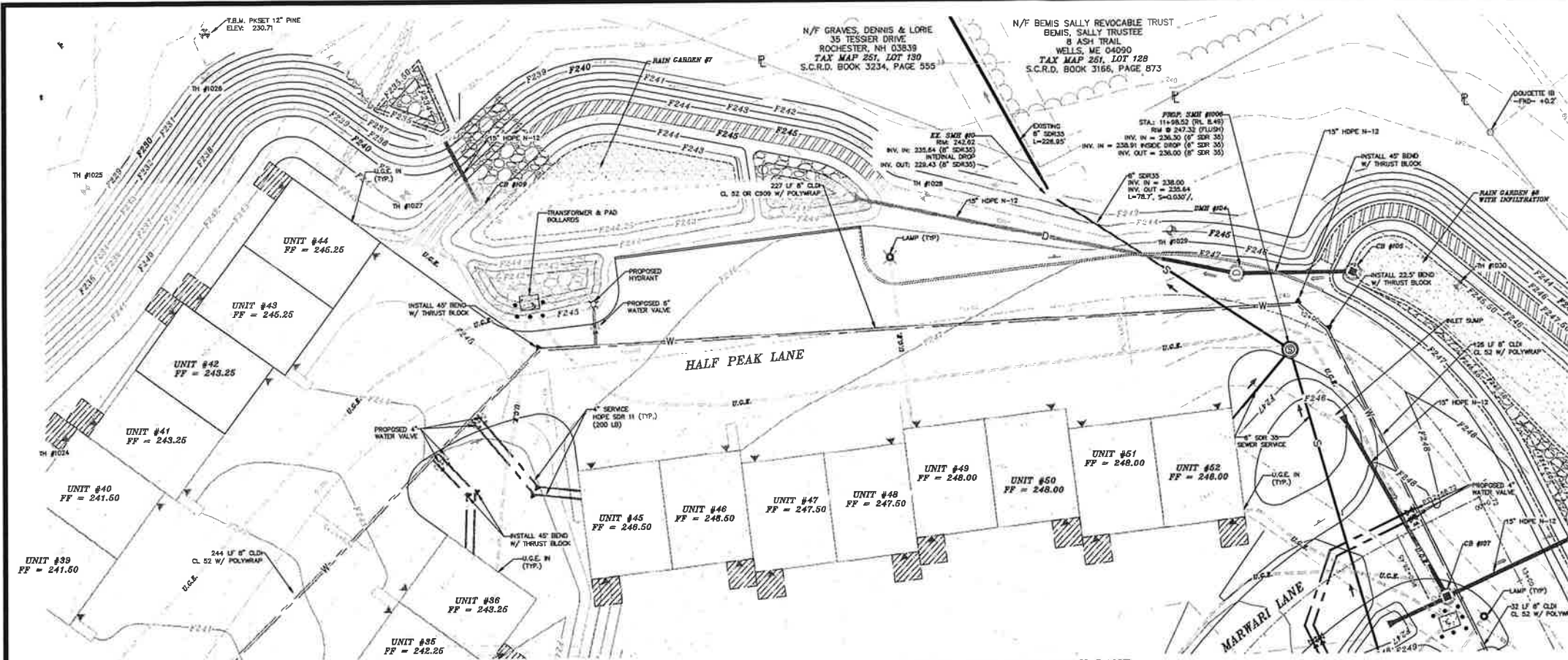
REVISION	DATE	DESCRIPTION
#1	07-30-2018	SUBMITTED FOR CONSTRUCTION
#2	08-18-2018	REVISED PER AGT COMMENT
#3	09-24-2018	ADDED WATER SERVICE
#4	10-12-2018	GENERAL PLAN SET
#5	04-09-2018	SEWER & WATER SET
#6	03-30-2018	GENERAL PLAN SET

UTILITY PLAN HALF PEAK LANE 4+25 TO 8+75

LAND OF
ORC FUTURE CORP.
FOR
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

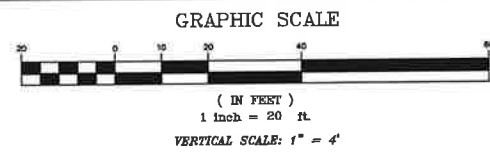
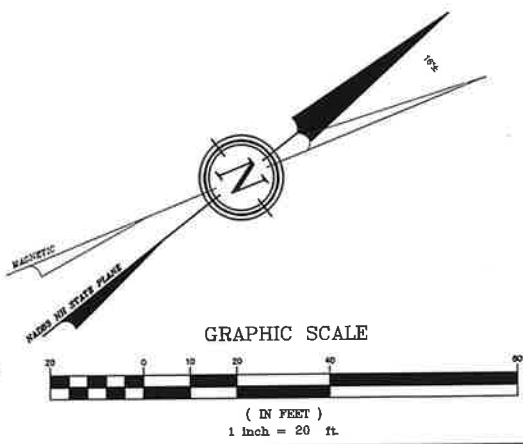
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167





NOTES:

- OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857-1909
- APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
HAMPTON, NH 03862
- A.) TAX MAP 251, LOT 120
B.) TAX MAP 251, LOT 121
- A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.
- S.C.R.D. BOOK 2975, PAGE 469
- SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON MULCH BERM / FENCE / AND SILT SOXX.
- ONE ON SITE BENCHMARK IS PROVIDED. BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.



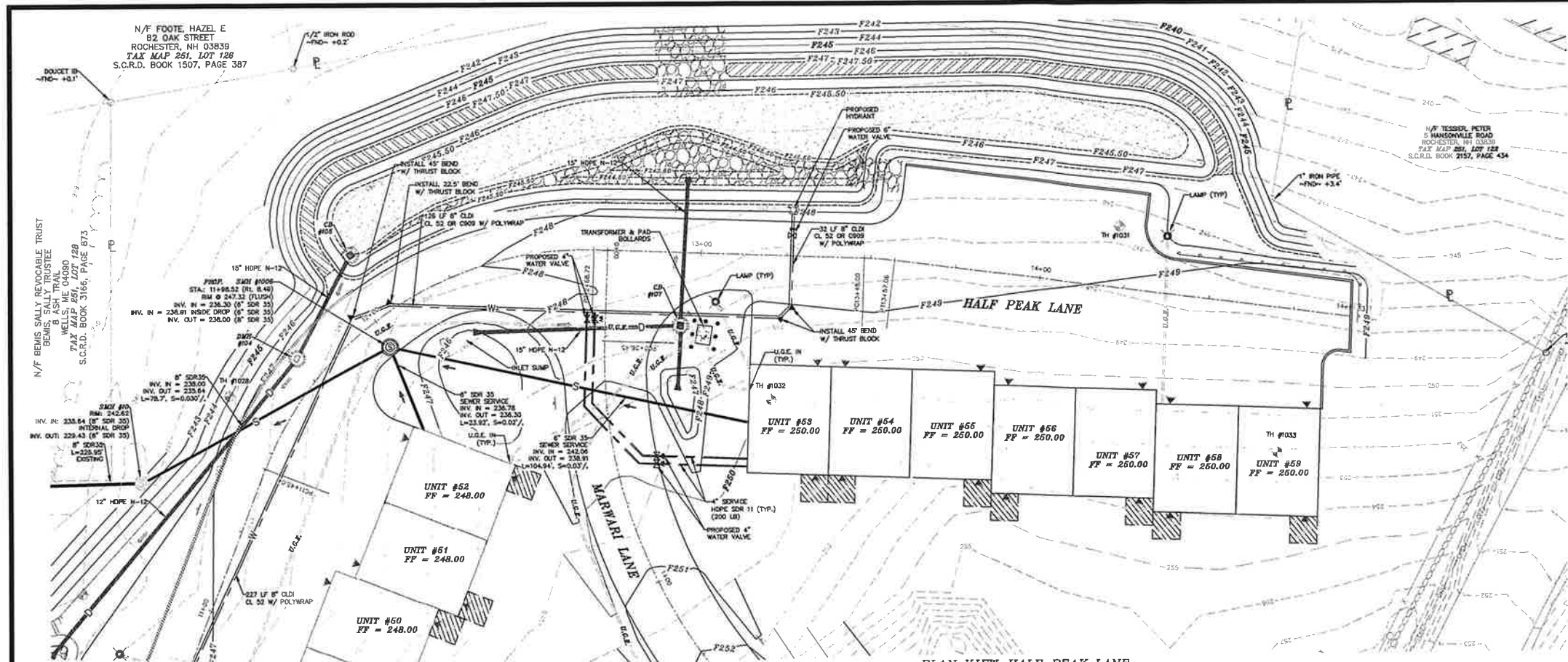
REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER AOT COMMENT
#6b	05-24-2018	NHDES WMB RESPONSE
#4	05-02-2018	AOT REVISIONS
#3	04-18-2018	REVISIONS
#2	04-09-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

UTILITY PLAN HALF PEAK LANE 8+75 TO 13+00

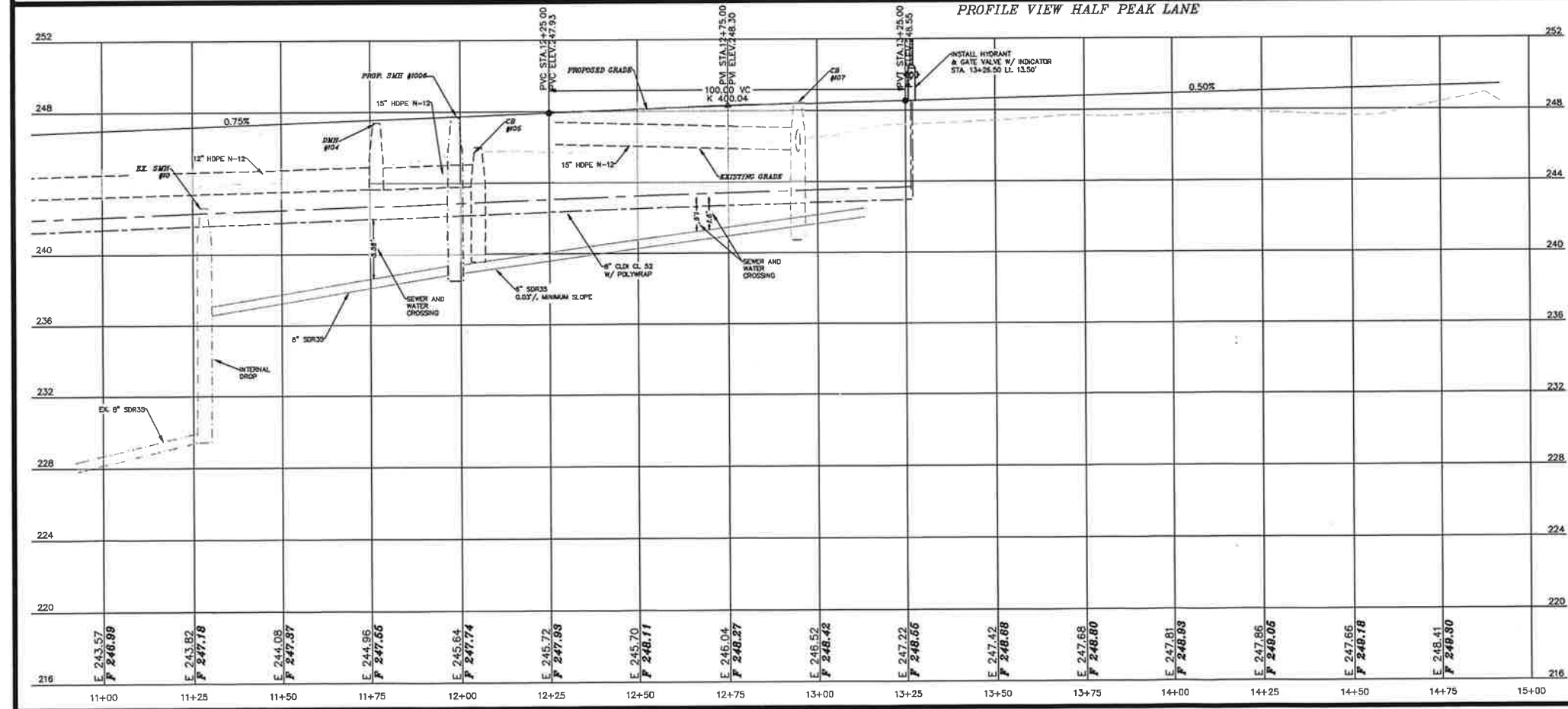
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603) 332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167

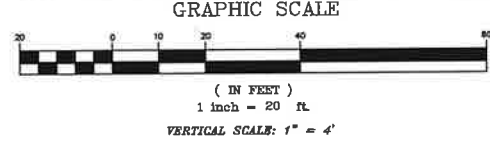
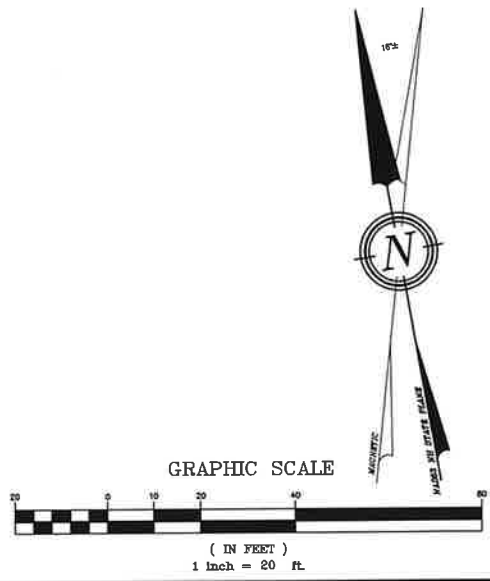
SHEET 41 OF 76



PLAN VIEW HALF PEAK LANE
PROFILE VIEW HALF PEAK LANE



- NOTES:**
- 1) CURRENT OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857
 - 2) APPLICANT: HALF PEAK HOLDINGS
PO BOX 1297
HAMPTON, NH 03862
 - 3) TAX MAP 251, LOTS 120 & 121
 - 4) LOT AREA: A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 802,671 Sq. Ft., 13.83 Ac.
 - 5) S.C.R.D. BOOK 2975, PAGE 469
 - 6) THE INTENT OF THIS PLAN IS TO PROVIDE AN OVERVIEW OF
UTILITY LAYOUT DETAIL OF HALF PEAK LANE.
 - 7) ONE ON SITE BENCHMARK IS PROVIDED. BS&E IS TO PROVIDE
ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.



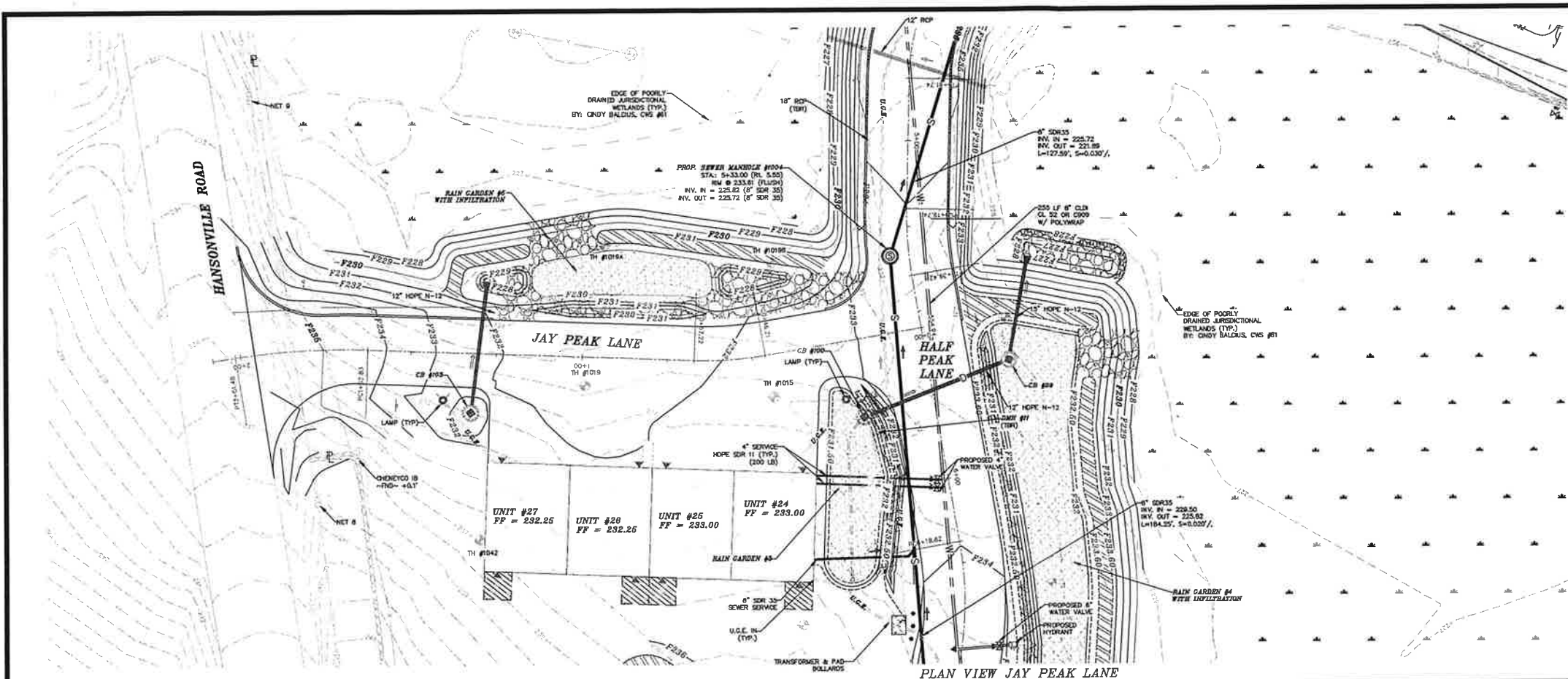
SUBMITTED FOR CONSTRUCTION		REVISION	
DATE	DESCRIPTION	DATE	DESCRIPTION
07-30-2018	#1	07-30-2018	#1
08-18-2018	#2	08-18-2018	#2
09-24-2018	#3	09-24-2018	#3
10-02-2018	#4	10-02-2018	#4
10-02-2018	#5	10-02-2018	#5
10-02-2018	#6	10-02-2018	#6
10-02-2018	#7	10-02-2018	#7
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10-02-2018	#9	10-02-2018	#9
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10-02-2018	#99	10-02-2018	#99
10-02-2018	#100	10-02-2018	#100

UTILITY PLAN HALF PEAK LANE 13+00 TO END
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603) 332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167

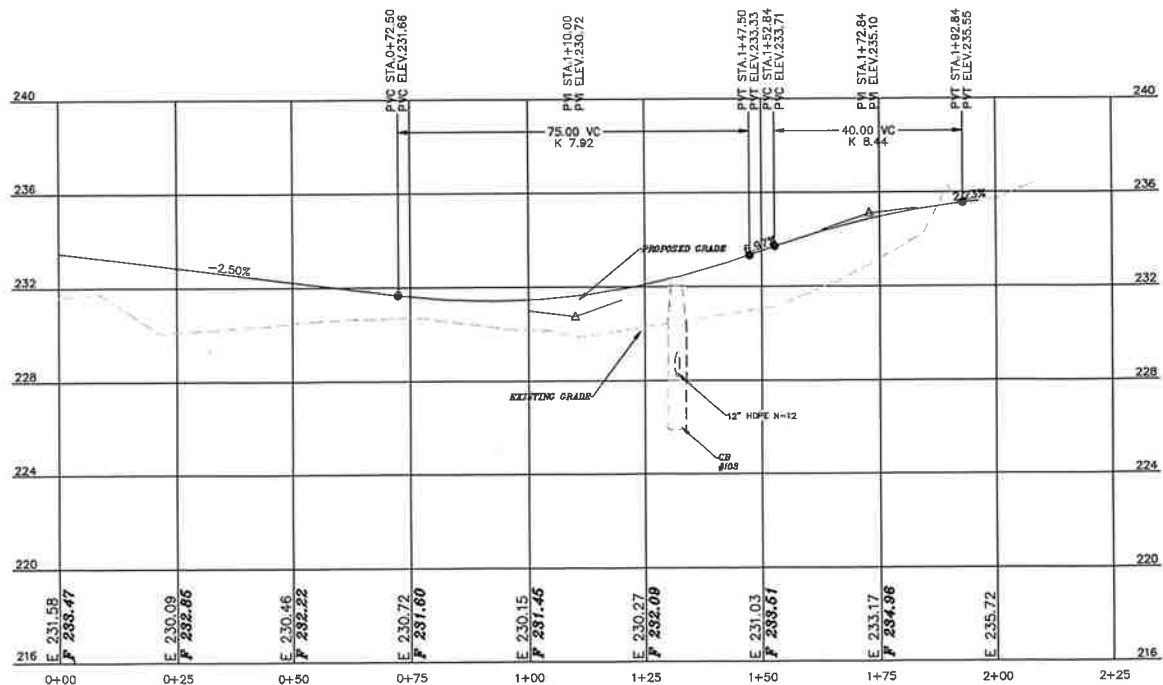
STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE 12/31/2024

SHEET 42 OF 76

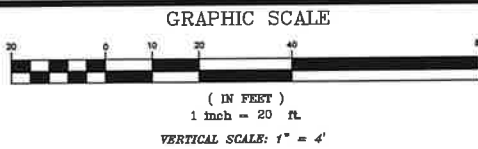
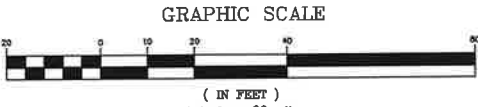


PLAN VIEW JAY PEAK LANE

PROFILE VIEW JAY PEAK LANE



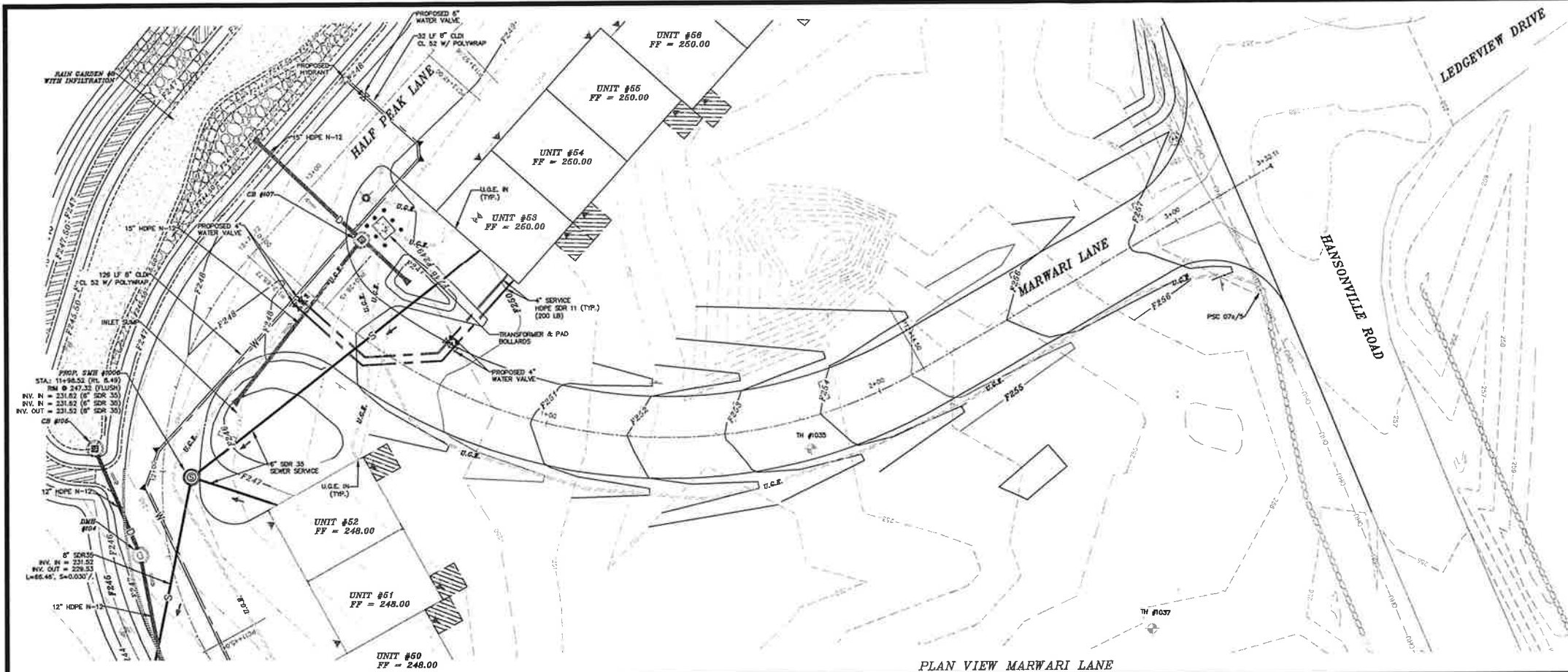
- NOTES:
- 1.) CURRENT OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857
 - 2.) APPLICANT: HALF PEAK HOLDINGS
PO BOX 1297
HAMPTON, NH 03862
 - 3.) TAX MAP 251, LOTS 120 & 121
 - 4.) LOT AREA: A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.
 - 5.) S.C.R.D. BOOK 2975, PAGE 469
 - 6.) THE INTENT OF THIS PLAN IS TO PROVIDE AN OVERVIEW OF UTILITY LAYOUT DETAIL OF JAY PEAK LANE.
 - 7.) ONE ON SITE BENCHMARK IS PROVIDED. B&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.



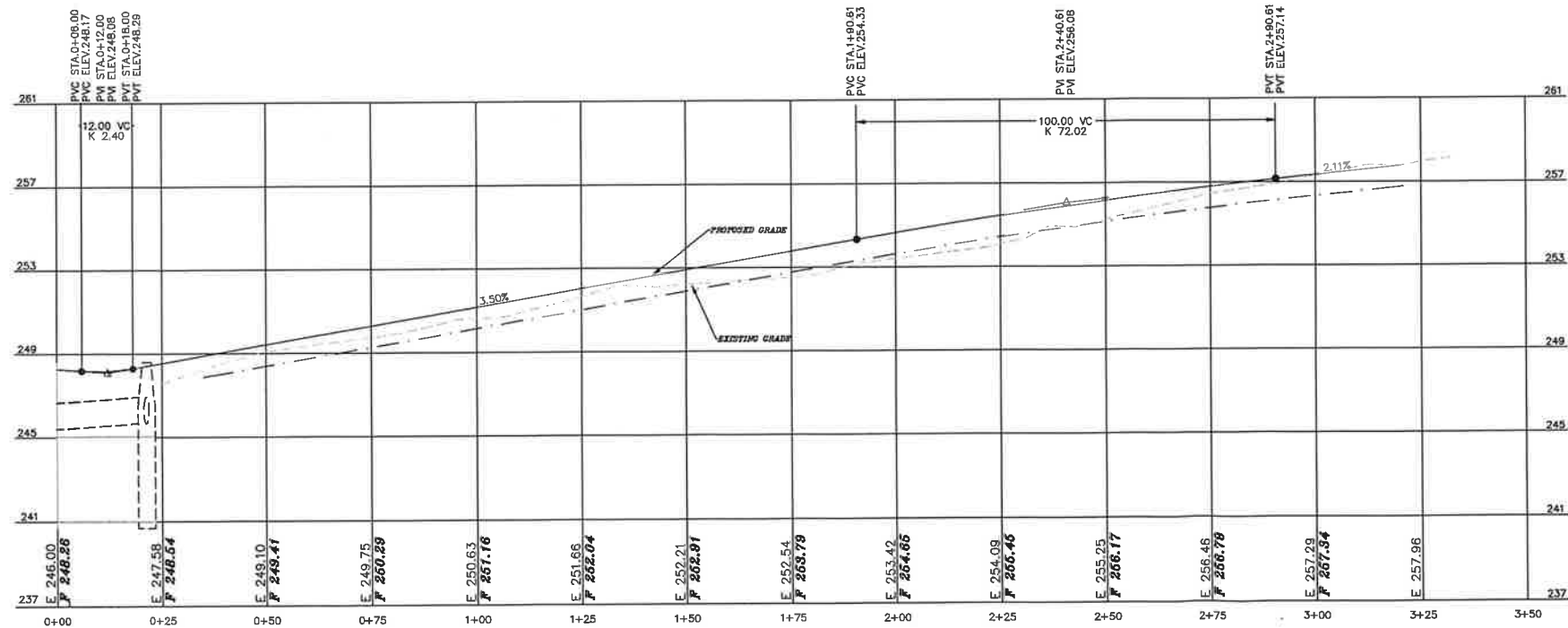
REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6	08-18-2018	REVISED PER A&T COMMENT
#5	05-24-2018	NHDES WEBB RESPONSE
#4	05-02-2018	A&T REVISIONS
#3	04-10-2018	REVISIONS
#2	04-10-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

UTILITY PLAN JAY PEAK LANE 0+00 TO END
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, JESSIE DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

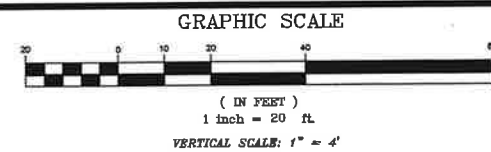
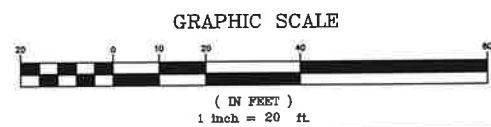
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167



PLAN VIEW MARWARI LANE
PROFILE VIEW MARWARI LANE



- NOTES:**
- 1.) CURRENT OWNER: CRC FUTURE CORP.
58 EXETER ROAD
NEWMARKET, NH 03857
 - 2.) APPLICANT: HALF PEAK HOLDINGS
PO BOX 1297
HAMPTON, NH 03862
 - 3.) TAX MAP 251, LOTS 120 & 121
 - 4.) LOT AREA: A.) 20,012 Sq. Ft., 0.45 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.
 - 5.) S.C.R.D. BOOK 2975, PAGE 469
 - 6.) THE INTENT OF THIS PLAN IS TO PROVIDE AN OVERVIEW OF UTILITY LAYOUT DETAIL OF MARWARI LANE.
 - 7.) ONE ON SITE BENCHMARK IS PROVIDED. BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.

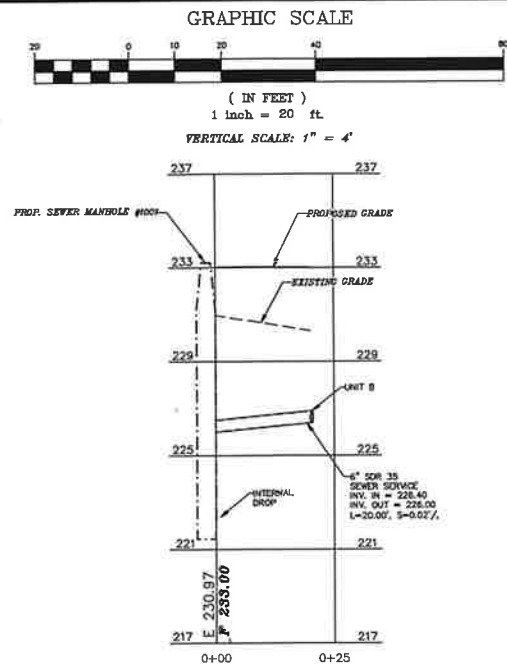


REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER ACT COMMENT
#5b	05-24-2018	NOTES WMB RESPONSE
#4	05-02-2018	ACT REVISIONS
#3	04-11-2018	ACT REVISIONS
#2	04-09-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

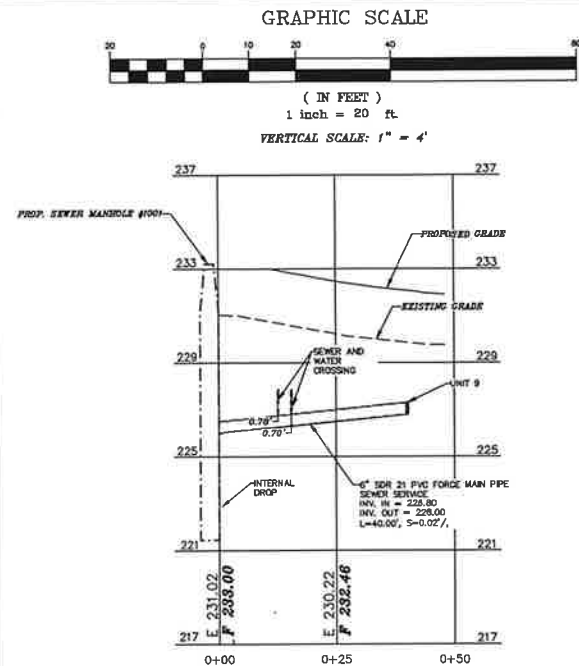
UTILITY PLAN MARWARI LANE 0+00 TO END
LAND OF
CRC FUTURE CORP.
FOR
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167

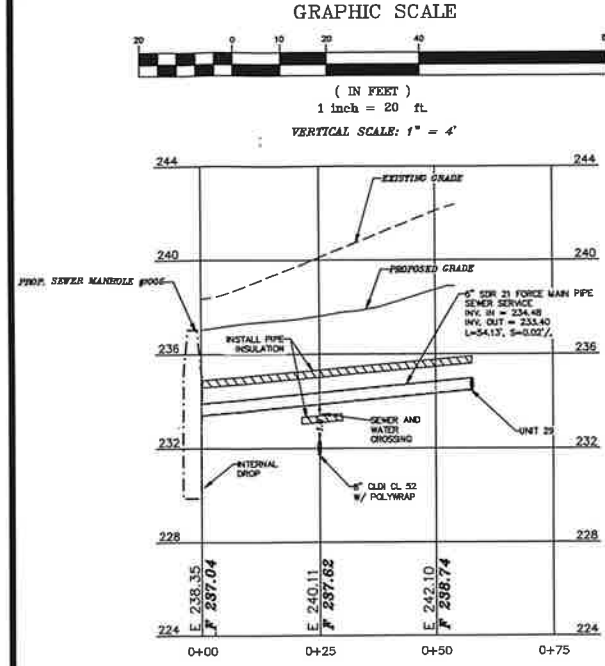




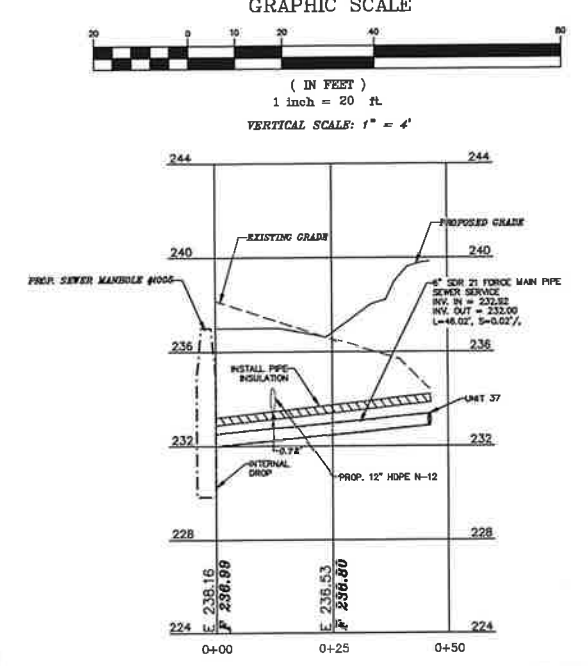
PROFILE VIEW SMH #1001 CONNECTION FROM UNIT 8



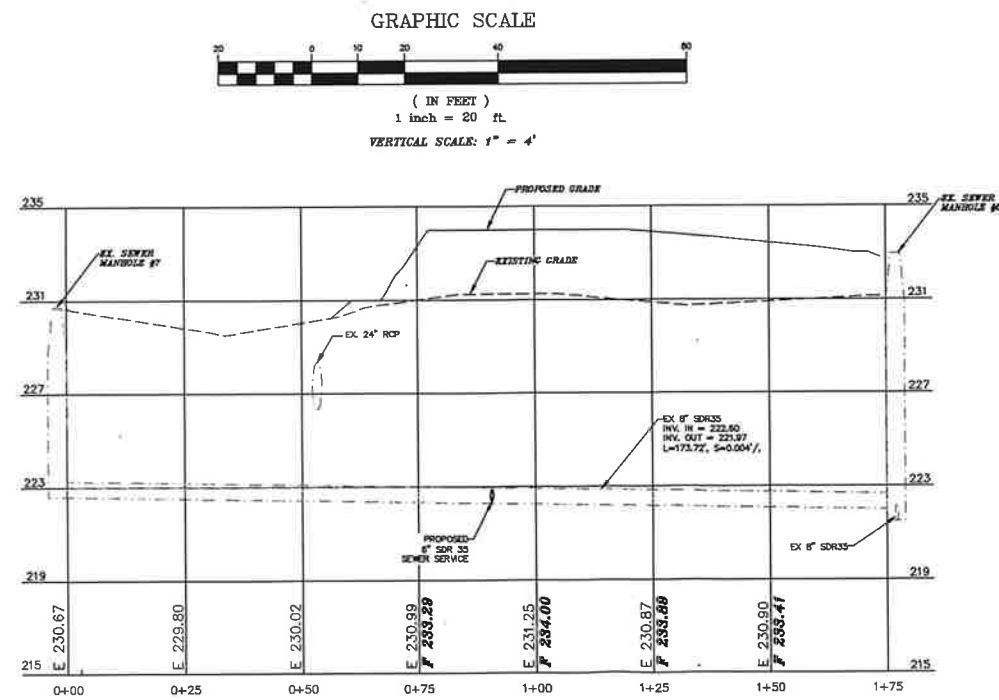
PROFILE VIEW SMH #1001 CONNECTION FROM UNIT 9



PROFILE VIEW SMH #1005 CONNECTION FROM UNIT 29



PROFILE VIEW SMH #1005 CONNECTION FROM UNIT 37



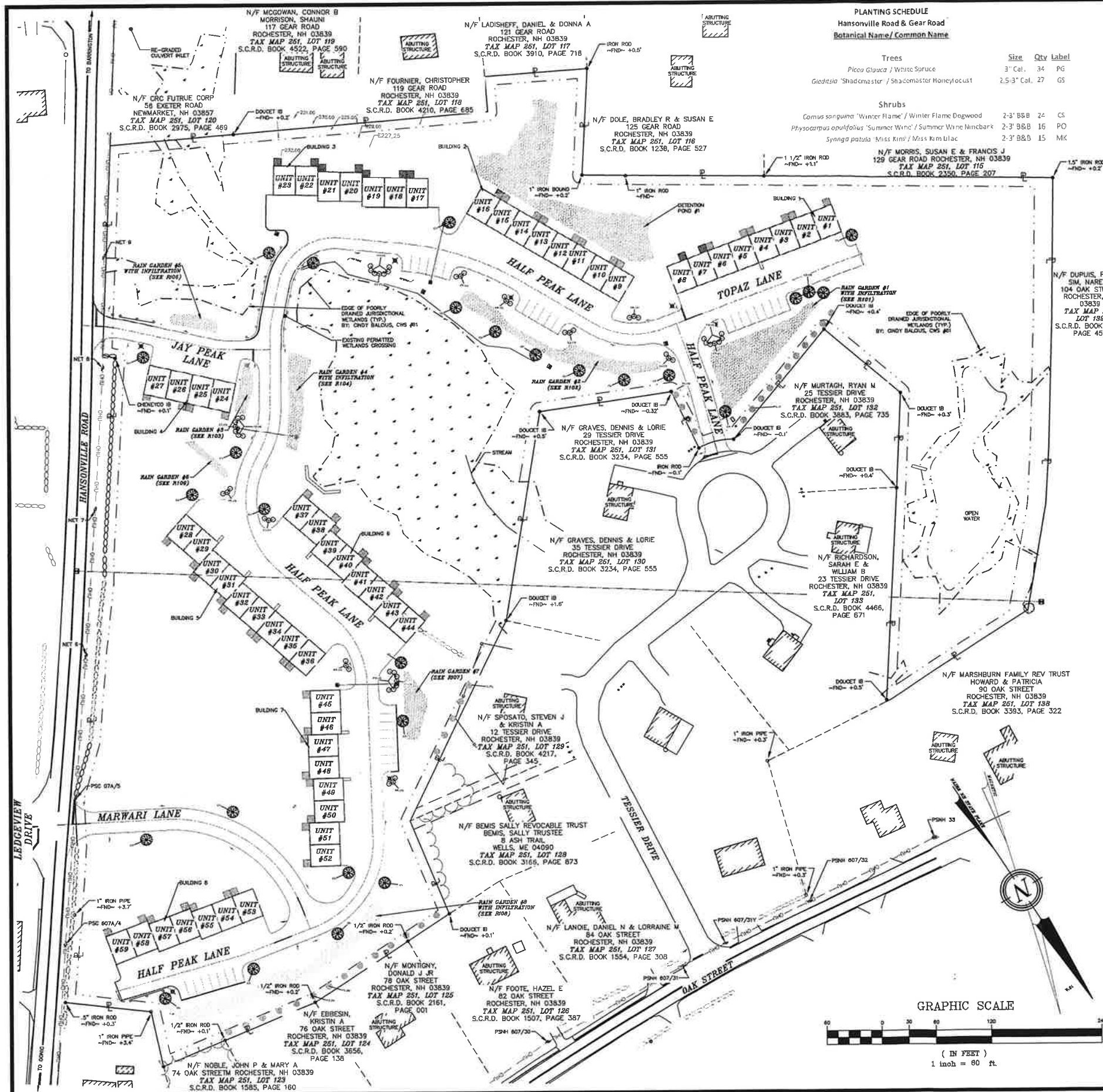
PROFILE VIEW SMH #6 TO SMH #7

REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER AOT COMMENT
#5b	05-24-2018	NHDES WEB RESPONSE
#4	05-02-2018	AOT REVISIONS
#3	04-11-2018	GENERAL PLAN SET
#2	03-30-2018	GENERAL PLAN SET

SEWER PROFILES
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING
& ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)352-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167





PLANTING SCHEDULE			
Hansenville Road & Gear Road			
Botanical Name/ Common Name			
Trees	Size	Qty	Label
<i>Picea Glauca</i> / White Spruce	3" Cal.	34	PG
<i>Gleditsia</i> "Shademaster" / Shademaster Honeylocust	2.5-3" Cal.	27	GS
Shrubs			
<i>Cornus sanguinea</i> "Winter Flame" / Winter Flame Dogwood	2-3" B&B	24	CS
<i>Physocarpus opulifolius</i> "Summer Wine" / Summer Wine Ninebark	2-3" B&B	16	PO
<i>Syringa patula</i> "Miss Kim" / Miss Kim Lilac	2-3" B&B	15	MK

- NOTES:
- 1.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE OVERVIEW LANDSCAPING DESIGN FOR 58 CONDOMINIUM TOWNHOUSES.
 - 2.) CURRENT OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857
 - 3.) APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
HAMPTON, NH 03862
 - 4.) THE PROJECT PARCEL IS SHOWN AS LOT NO. 120, MAP 251 OF THE CITY OF ROCHESTER TAX ASSESSOR'S MAPS.
 - 5.) THE PROJECT PARCEL CONTAINS 13.84 ACRES OR 602,671 SQUARE FEET AREA OF LAND.
 - 6.) PROJECT PLAN REFERENCES: S.C.R.D. BOOK 2975, PAGE 469
 - 7.) CALL DIG SAFE PRIOR TO BEGINNING WORK. (1-888-344-7233). THE LANDSCAPE CONTRACTOR IS ADVISED OF THE PRESENCE OF UNDERGROUND UTILITIES AND SHALL VERIFY THE EXISTENCE AND LOCATION OF THE SAME BEFORE COMMENCING AND DIGGING OPERATIONS. THE LANDSCAPE CONTRACTOR SHALL REPLACE OR REPAIR UTILITIES, PAVING, WALKS, CURBING, ETC DAMAGED IN PERFORMANCE OF THIS JOB AT NO ADDITIONAL COST TO THE OWNER OR GENERAL CONTRACTOR.
 - 8.) CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL SITE CONDITIONS PRIOR TO CONSTRUCTION BIDDING.
 - 9.) THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN ON THE DRAWINGS. VARIATIONS IN QUANTITIES ARE TO BE APPROVED BY THE DESIGN ENGINEER.
 - 10.) PROVIDED SMOOTH TRANSITION WHERE NEW WORK MEETS EXISTING CONDITIONS.
 - 11.) ALL PLANT MATERIAL INSTALLED SHALL MEET THE SPECIFICATIONS OF "AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN
 - 12.) ALL PLANT MATERIALS SHALL BE FREE FROM INSECTS AND DISEASE.
 - 13.) ALL PLANTINGS SHALL BE DONE IN ACCORDANCE WITH ACCEPTABLE HORTICULTURAL PRACTICES. THIS IS TO INCLUDE PROPER PLANTING MIX, PLANT BED AND TREE PIT PREPARATION, PRUNING STAKING OR GUYING, WRAPPING, SPRAYING, FERTILIZATION, PLANTING AND ADEQUATE MAINTENANCE UNTIL ACCEPTANCE FROM OWNER.
 - 14.) ALL GRASS, OTHER VEGETATION AND DEBRIS SHALL BE REMOVED FROM ALL PLANTING AREAS PRIOR TO PLANTING.
 - 15.) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING AND NEWLY PLANTED TREES AND SHRUBS DURING THE CONSTRUCTION PROCESS. WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL TEMPORARY FENCING (SNOW OR EQUAL) AROUND EXISTING TREES AND SHRUBS THAT COULD BE IMPACTED BY THE CONSTRUCTION PROCESS. STORAGE OF CONSTRUCTION EQUIPMENT, CONSTRUCTION MATERIALS, SNOW STORAGE AND OR VEHICLE PARKING SHALL NOT BE PERMITTED WITHIN THE DRIP LINE OF TREES OR TWENTY FEET WHICH EVER IS GREATER.
 - 16.) NEW PLANTINGS SHALL BE INSTALLED PER PROJECT DRAWINGS AND SPECIFICATION THAT INCLUDE FERTILIZATION AND MULCHING AS REQUIRED.
 - 17.) ALL SHRUB BEDS AND TREE PITS SHALL BE MULCHED WITH 3" CLEAN SHREDDED BLACK MULCH
 - 18.) WHERE INDICATED ON PLAN, PLANTING SOIL MIXTURE FOR GROUND COVER AND PERENNIAL BED AREAS SHALL CONSIST OF FOUR PARTS TOPSOIL, TWO PARTS SPAGNUM PEAT MOSS, AND ONE PART HORTICULTURAL PERLITE BY VOLUME. PEAT MOSS MAY BE SUBSTITUTED WITH WELL-ROTTED OR DEHYDRATED MANURE OR COMPOST. ROTOTILL BEDS TO A DEPTH OF 8 INCHES.
 - 19.) MAINTENANCE OF NEW PLANTINGS AND LAWNS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND OR LANDSCAPE SUBCONTRACTOR UNTIL ACCEPTANCE BY THE OWNER. RESPONSIBILITIES SHALL INCLUDE WATERING WEEDING AND MOWING AS NECESSARY. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. REPLACEMENT MATERIAL SHALL BE GUARANTEED FOR AND ADDITIONAL YEAR FROM TIME OF INSTALLATION.
 - 20.) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY EROSION CONTROL MEASURES DURING THE CONSTRUCTION PHASE AND UNTIL ALL AREAS HAVE BEEN STABILIZED AND ACCEPTED BY THE OWNER. THE GENERAL CONTRACTOR SHALL PROVIDE WEEKLY INSPECTIONS OF EROSION MEASURE AND IMMEDIATELY AFTER STORM EVENTS AND REPAIR AS NECESSARY.
 - 21.) THE GENERAL CONTRACTOR AND OR THE LANDSCAPE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL THREE GUYING MATERIAL ONCE PLANT MATERIAL HAS BEEN ESTABLISHED. (MINIMUM OF ONE GROWING SEASON). ALL TEMPORARY EROSION CONTROL MEASURE SHALL BE REMOVED ONCE STABILIZATION OF DISTURBANCE HAS BEEN ACCEPTED BY OWNER.
 - 22.) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR A MINIMUM OF TWO MOWINGS FOR ALL TURF AREAS OR UNTIL ACCEPTANCE BY THE OWNER. A MINIMUM UNIFORM 75% CATCH OF TURF IS REQUIRED FOR ACCEPTANCE.
 - 23.) ALL PLANTINGS SHALL BE WATERED REGULARLY DURING THEIR FIRST YEAR AND MAINTAINED PERMANENTLY IN GOOD GROWING CONDITION AS AN EFFECTIVE VISUAL SCREEN.
 - 24.) SHRUBS OR TREES WHICH DIE SHALL BE REPLACED WITHIN ONE GROWING SEASON WITH NEW SHRUBS OR TREES TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE LANDSCAPING REQUIREMENTS.
 - 25.) ALL REQUIRED LANDSCAPING SHALL BE INSTALLED BEFORE OCCUPANCY, OR WITHIN SIX MONTHS IF OCCUPANCY OCCURS DURING WINTER CONDITIONS.
 - 26.) TREES ARE TO BE 6" TALL AT PLANTING.
 - 27.) ALL PLANT STOCK SHALL CONFORM TO ANSI Z660.1 - NURSERY STOCK, LATEST EDITIONS (AMERICAN ASSOCIATION OF NURSERYMEN, INC.)
 - 28.) 4" AGED PINEBARK MULCH AND A WEED BARRIER (TY-PAR FABRIC OR APPROVED EQUAL) SHALL BE APPLIED TO ALL SHRUB AND GROUND COVER BEDS. INSTALL WEED BARRIER AS PER MANUFACTURERS RECOMMENDATIONS.
 - 29.) PLANT-PIT BACK-FILL SHALL BE MIXED AT A RATE OF 7 PARTS OF TOPSOIL TO 2 PARTS OF DEHYDRATED COW MANURE. SLOW RELEASE FERTILIZER SHALL BE APPLIED AS PER MANUFACTURERS RECOMMENDATIONS. USE EXISTING ON-SITE TOPSOIL AS PART OF BACK FILL WHEN AVAILABLE.
 - 30.) ALL LANDSCAPED AREAS NOT PLANTED WITH TREES, SHRUBS OR GROUND COVER SHALL BE RESTORED WITH SEED OR SOD AS INDICATED ON PLANS.
 - 31.) TOPSOIL WILL BE TESTED FOR FERTILIZATION REQUIREMENTS, AND SLOW RELEASE ENVIRONMENTALLY FRIENDLY FERTILIZER WILL BE APPLIED AT THE RECOMMENDED RATES.
 - 32.) ALL DISTURBED WETLAND BUFFER AREAS, EXCEPT FOR AREAS THAT ARE PART OF THE DRAINAGE SYSTEM, ARE TO BE RESEED WITH A CONSERVATION SEED MIX AND ONLY MOWED TWICE PER YEAR.
 - 33.) ALL PLANT SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER.
 - 34.) PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, UPON DELIVERY OR AT THE JOB SITE WHILE WORK IS ONGOING TO CONFORMITY TO SPECIFIED QUALITY, SIZE AND VARIETY.
 - 35.) PLANTS FURNISHED IN CONTAINERS SHALL HAVE THE ROOTS WELL ESTABLISHED IN THE SOIL MASS AND SHALL HAVE AT LEAST ONE (1) GROWING SEASON. ROOT-BOUND PLANTS OR INADEQUATELY SIZED CONTAINERS TO SUPPORT THE PLANT MAY BE DEEMED UNACCEPTABLE.
 - 36.) ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR FOR NO LESS THAN ONE FULL YEAR FROM THE TIME OF INSTALLATION. DURING THIS TIME, THE OWNER SHALL MAINTAIN ALL PLANT MATERIALS IN THE ABOVE MANNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE PLANTS TO ENSURE PROPER CARE. IF THE CONTRACTOR IS DISSATISFIED WITH THE CARE GIVEN, HE SHALL IMMEDIATELY, AND IN SUFFICIENT TIME TO PERMIT THE CONDITION TO BE RECTIFIED, NOTIFY THE OWNER IN WRITING OR OTHERWISE FORFEIT HIS CLAIM.
 - 37.) BY THE END OF THE GUARANTEE PERIOD, THE CONTRACTOR SHALL HAVE REPLACED ANY PLANT MATERIAL THAT IS MISSING, NOT TRUE TO SIZE AS SPECIFIED, THAT HAS DIED, THAT HAS LOST NATURAL SHAPE DUE TO DEAD BRANCHES, EXCESS PRUNING OR INADEQUATE OR IMPROPER CARE, OR IS, IN THE OPINION OF THE OWNER, IN UNHEALTHY OR UNSIGHTLY CONDITION.
 - 38.) THE CONTRACTOR IS TO USE TEMPORARY MEASURES FOR WATERING PLANTS DURING THE ESTABLISHMENT PERIOD, INCLUDING CONNECTING TEMPORARY HOSES TO THE STRUCTURE WATER SUPPLY LINE AND UTILIZING SPRINKLERS UNTIL 50% GROWTH OCCURS.

LANDSCAPING OVERVIEW PLAN

LAND OF
CRC FUTURE CORP.
FOR
HALF PEAK HOLDINGS
GEAR ROAD, HANSENVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY & SURVEYING & ENGINEERING

335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)352-2863

SCALE : 1 IN. EQUALS 60 FT.

DATE : JANUARY 22, 2018

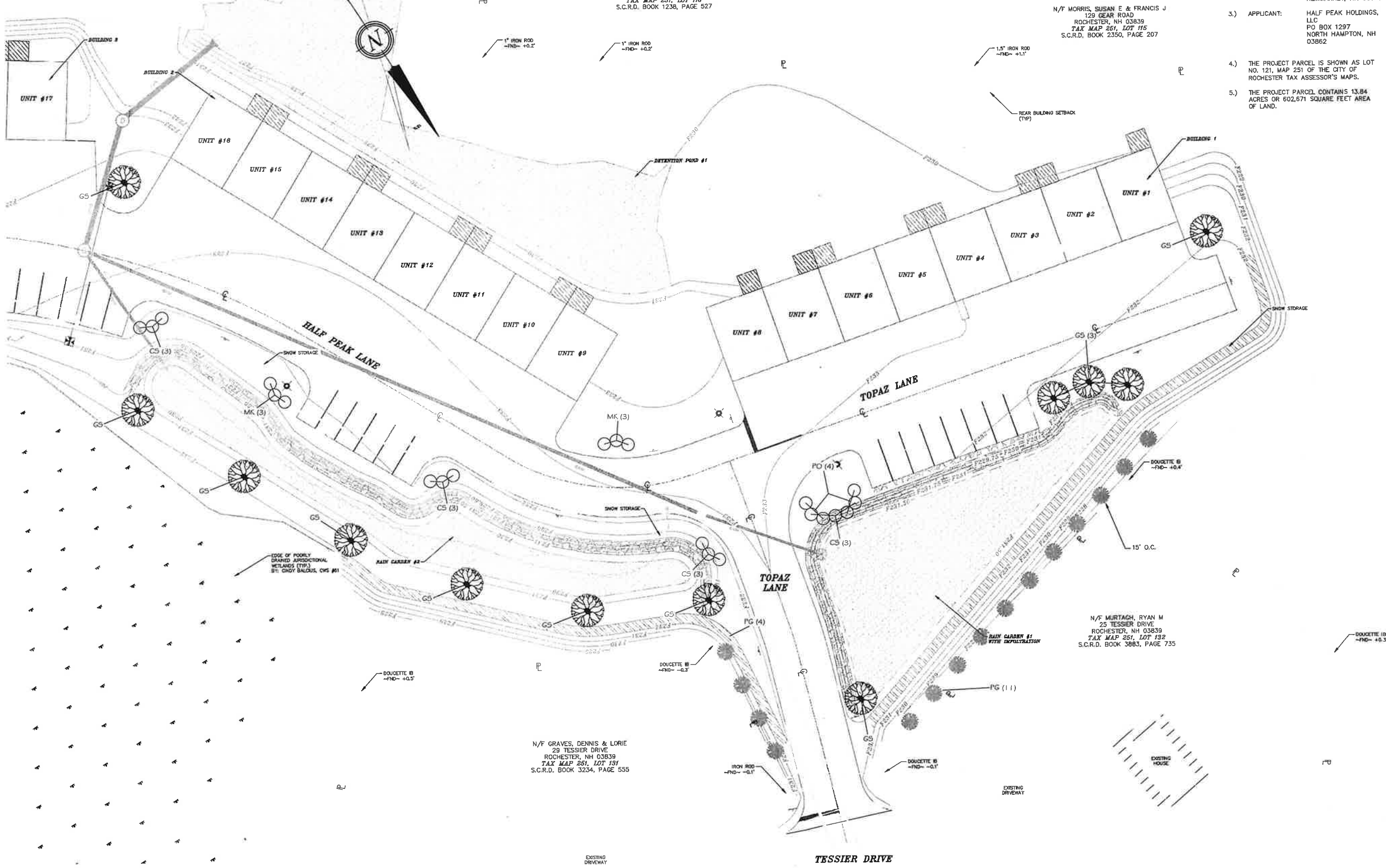
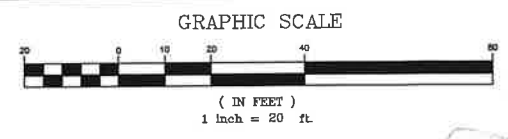
FILE NO. : DB 2017 - 167

STATE OF NEW HAMPSHIRE

KENNETH A. BERRY

REGISTERED PROFESSIONAL ENGINEER

SHEET 46 OF 76



- NOTES:
- 1.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE LANDSCAPING DESIGN FOR UNITS 1-16 CONDOMINIUM TOWNHOUSES.
 - 2.) CURRENT OWNER: CRC FUTURE CORP. 56 EXETER ROAD NEWMARKET, NH 03857
 - 3.) APPLICANT: HALF PEAK HOLDINGS, LLC PO BOX 1297 NORTH HAMPTON, NH 03862
 - 4.) THE PROJECT PARCEL IS SHOWN AS LOT NO. 121, MAP 251 OF THE CITY OF ROCHESTER TAX ASSESSOR'S MAPS.
 - 5.) THE PROJECT PARCEL CONTAINS 13.84 ACRES OR 602,671 SQUARE FEET AREA OF LAND.

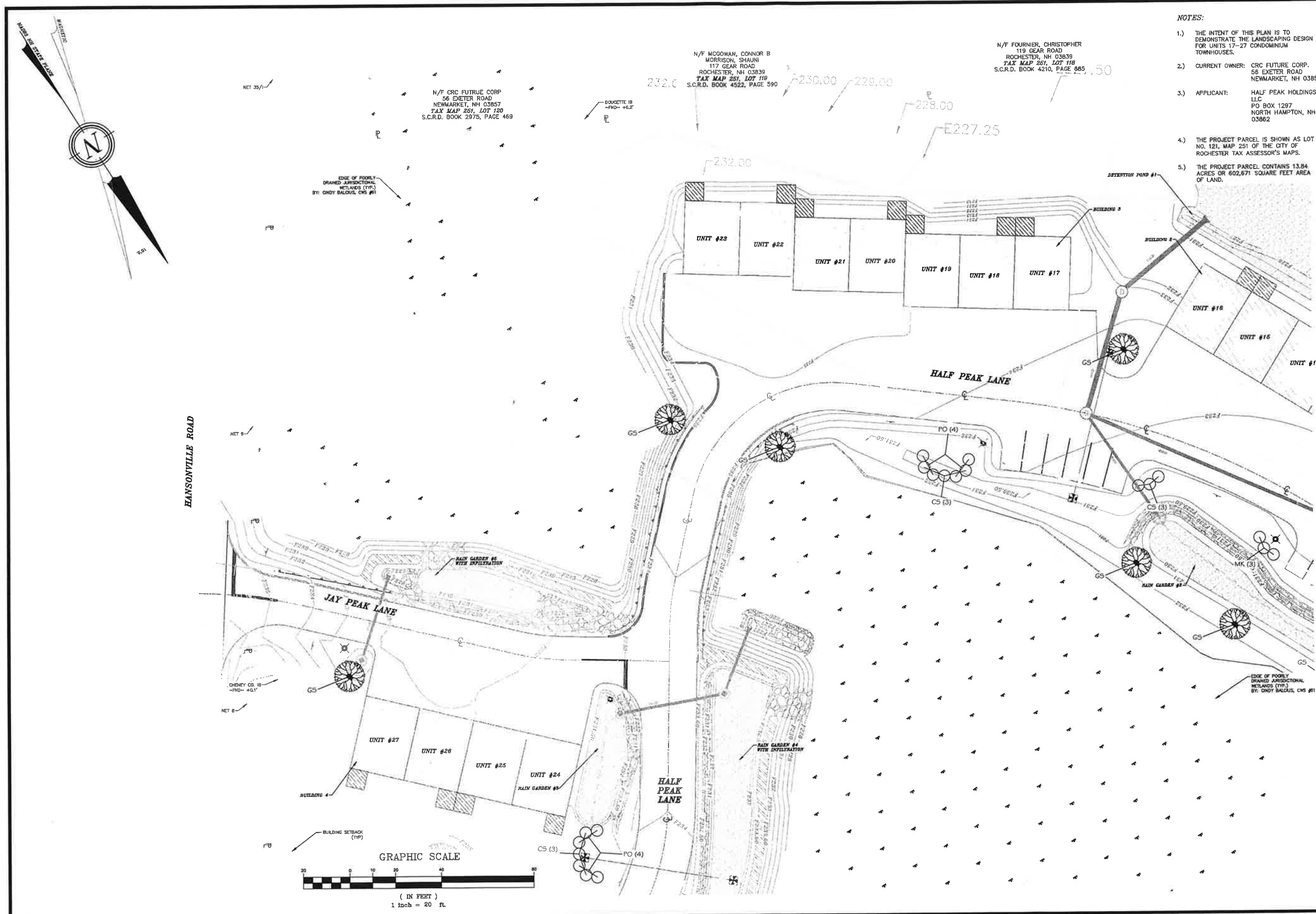
REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER A&T COMMENT
#5a	05-24-2018	NHDES WEB RESPONSE
#4	05-02-2018	NOT REVISIONS
#3	04-09-2018	NOT REVISIONS
#2	03-30-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

LANDSCAPING PLAN UNITS 1 - 16
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 1444
PROFESSIONAL ENGINEER

SHEET 47 OF 76



- NOTES:
- 1.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE LANDSCAPING DESIGN FOR UNITS 17-27 CONDOMINIUM TOWNHOUSES.
 - 2.) CURRENT OWNER: CRC FUTURE CORP. 56 EXETER ROAD, NEWMARKET, NH 03857
 - 3.) APPLICANT: HALF PEAK HOLDINGS, LLC PO BOX 1297, NORTH HAMPTON, NH 03862
 - 4.) THE PROJECT PARCEL IS SHOWN AS LOT NO. 121, MAP 251 OF THE CITY OF ROCHESTER TAX ASSESSOR'S MAPS.
 - 5.) THE PROJECT PARCEL CONTAINS 13.84 ACRES OR 602,671 SQUARE FEET AREA OF LAND.

SUBMITTED FOR CONSTRUCTION		REVISION		DESCRIPTION	
07-30-2018	#7	06-18-2018	#6a	DATE	
05-24-2018	#5b	05-24-2018	#5a	DATE	
05-02-2018	#4	05-02-2018	#4	DATE	
04-03-2018	#3	04-03-2018	#3	DATE	
03-30-2018	#2	03-30-2018	#2	DATE	
03-30-2018	#1	03-30-2018	#1	DATE	

LANDSCAPING PLAN UNITS 17 - 27
LAND OF
CRC FUTURE CORP.
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167



EXISTING E.O.P.
4" S.S. (W)
4" DSL (V)
4" S.S. (W)
EXISTING E.O.P.

HANSONVILLE ROAD

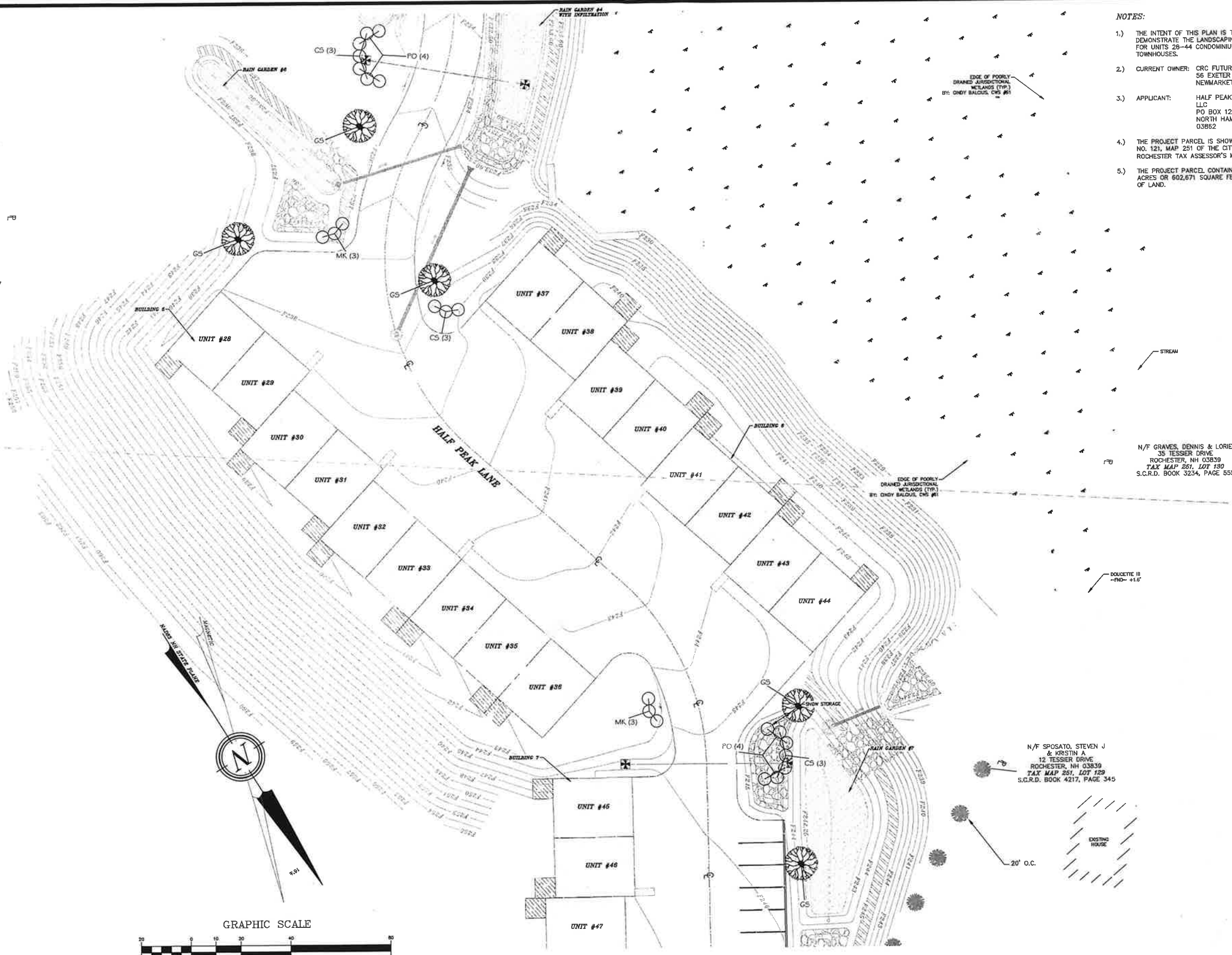
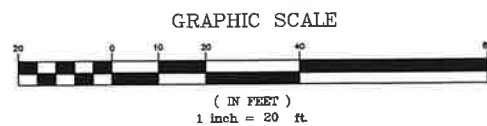
NET 6

P

NET 7

P

P



NOTES:

- 1.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE LANDSCAPING DESIGN FOR UNITS 28-44 CONDOMINIUM TOWNHOUSES.
- 2.) CURRENT OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857
- 3.) APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
NORTH HAMPTON, NH 03862
- 4.) THE PROJECT PARCEL IS SHOWN AS LOT NO. 121, MAP 251 OF THE CITY OF ROCHESTER TAX ASSESSOR'S MAPS.
- 5.) THE PROJECT PARCEL CONTAINS 13.84 ACRES OR 602,671 SQUARE FEET AREA OF LAND.

N/F GRAVES, DENNIS & LORIE
35 TESSIER DRIVE
ROCHESTER, NH 03839
TAX MAP 251, LOT 130
S.C.R.D. BOOK 3234, PAGE 555

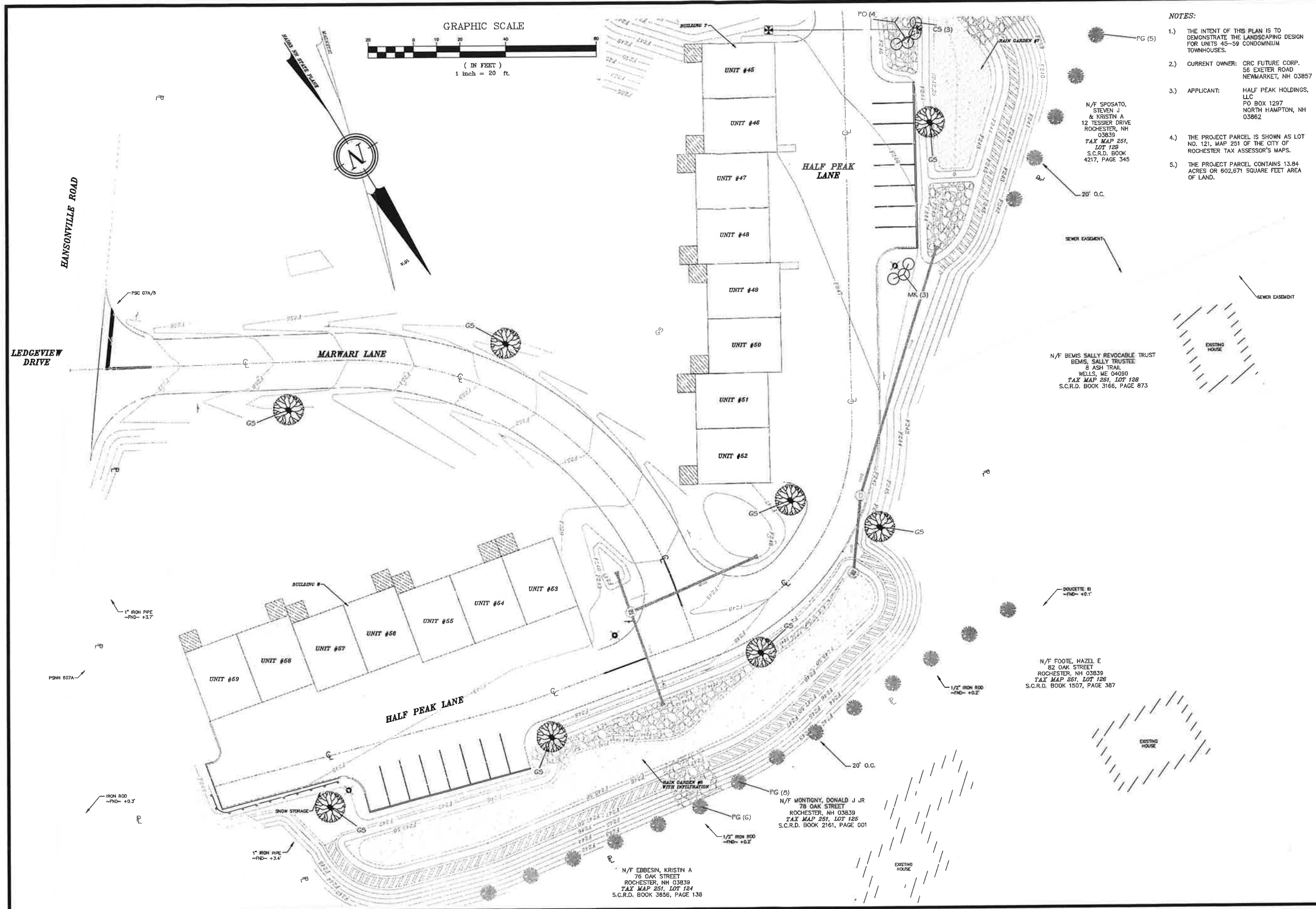
N/F SPOSATO, STEVEN J
& KRISTIN A
12 TESSIER DRIVE
ROCHESTER, NH 03839
TAX MAP 251, LOT 129
S.C.R.D. BOOK 4217, PAGE 345

REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER AGT COMMENT
#5b	05-24-2018	NHDES WEB RESPONSE
#4	05-02-2018	REVISED PER AGT COMMENT
#3	04-09-2018	REVISED PER AGT COMMENT
#2	04-09-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

LANDSCAPING PLAN UNITS 28 - 44
LAND OF CRC FUTURE CORP.
FOR HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)352-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167





- NOTES:
- 1.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE LANDSCAPING DESIGN FOR UNITS 45-59 CONDOMINIUM TOWNHOUSES.
 - 2.) CURRENT OWNER: CRC FUTURE CORP.
56 EXETER ROAD
NEWMARKET, NH 03857
 - 3.) APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
NORTH HAMPTON, NH 03862
 - 4.) THE PROJECT PARCEL IS SHOWN AS LOT NO. 121, MAP 251 OF THE CITY OF ROCHESTER TAX ASSESSOR'S MAPS.
 - 5.) THE PROJECT PARCEL CONTAINS 13.84 ACRES OR 602,671 SQUARE FEET AREA OF LAND.

SUBMITTED FOR CONSTRUCTION		REVISION		DATE		DESCRIPTION	
#7	07-30-2018	#7a	06-18-2018				
#6	05-24-2018	#6a	05-24-2018				
#5	05-02-2018	#5a	05-02-2018				
#4	04-09-2018	#4a	04-09-2018				
#3	03-30-2018	#3a	03-30-2018				

LANDSCAPING PLAN UNITS 45 - 59	
CRC FUTURE CORP.	
LAND FOR	
HALF PEAK HOLDINGS	
GEAR ROAD, ROCHESTER, NH 03867	
TAX MAP 251, LOT 120 & 121	

BERRY SURVEYING & ENGINEERING

335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.

DATE : JANUARY 22, 2018

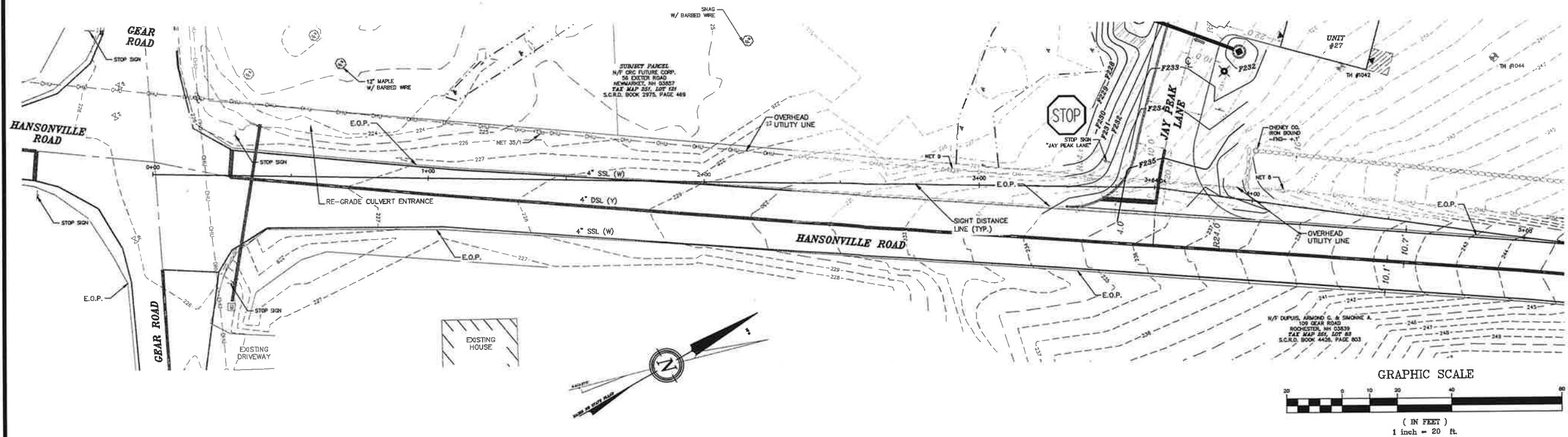
FILE NO. : DB 2017 - 167

STATE OF NEW HAMPSHIRE

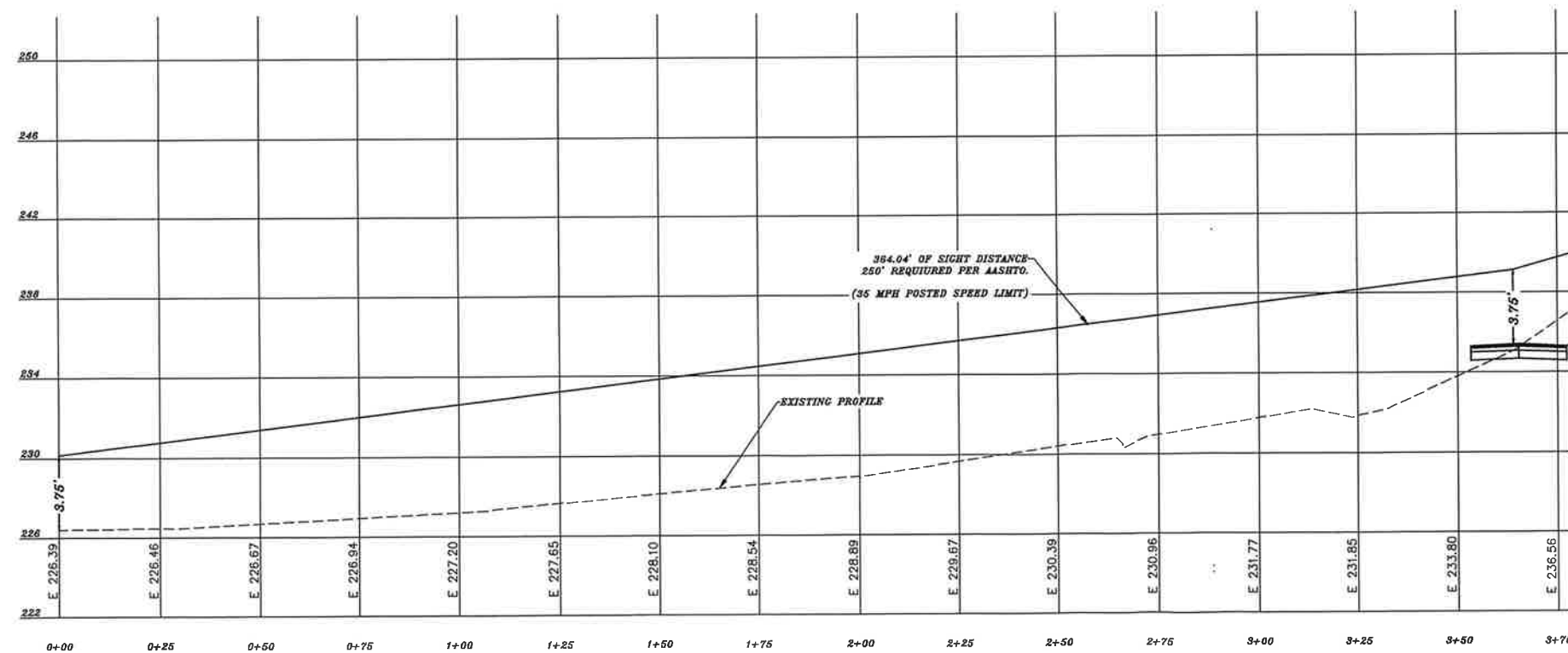
KENNETH A. BERRY

PROFESSIONAL ENGINEER

SHEET 50 OF 76



PLAN VIEW HANSONVILLE ROAD
PROFILE VIEW SIGHT LINE



APPROVED:

1.) OWNER: CRC FUTURE CORP.
58 EXETER ROAD
NEW HAMPSHIRE, NH 03857-1909

APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
NORTH HAMPTON, NH 03862

2.) A.) TAX MAP 251, LOT 120
B.) TAX MAP 251, LOT 121

3.) LOT AREA:
A.) 20,012 Sq. Ft., 0.46 Ac.
B.) 602,671 Sq. Ft., 13.83 Ac.

4.) S.C.R.D.
A.) BOOK 2975, PAGE 469
B.) BOOK 2974, PAGE 469

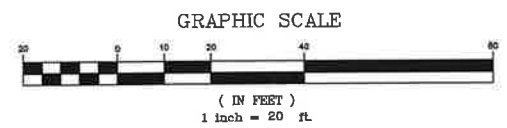
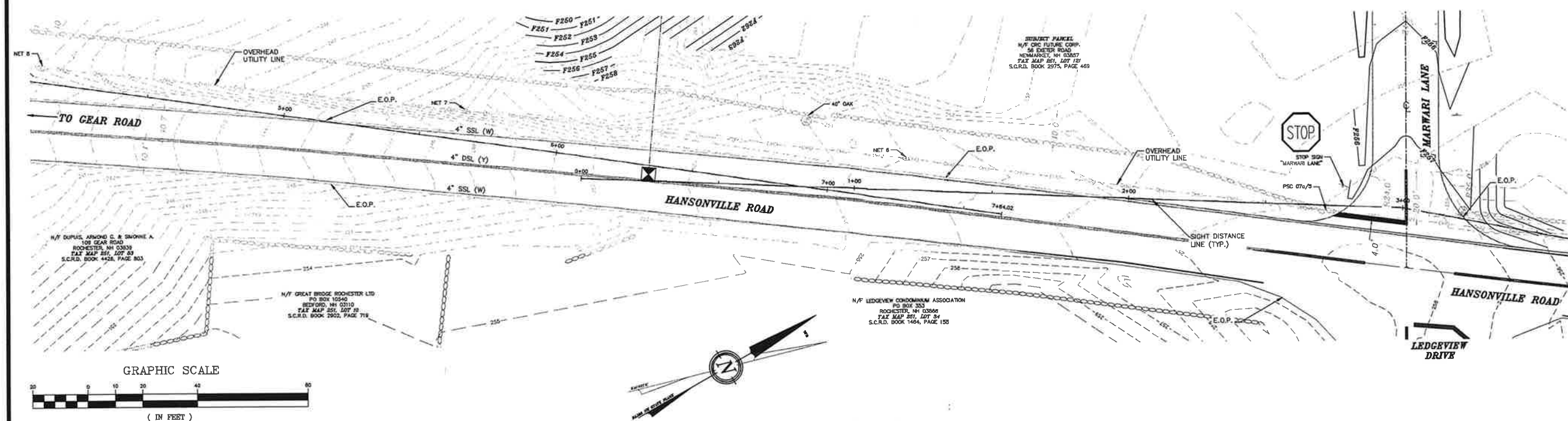
5.) THE INTENT OF THIS PLAN IS TO PROVIDE SIGHT DISTANCE CALCULATIONS FOR HALF PEAK LANE LOOKING SOUTHWEST.

HIGHWAY ACCESS JAY PEAK SOUTHWEST
LAND OF
CRC FUTURE CORP.
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)352-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167

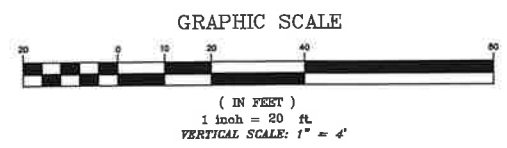
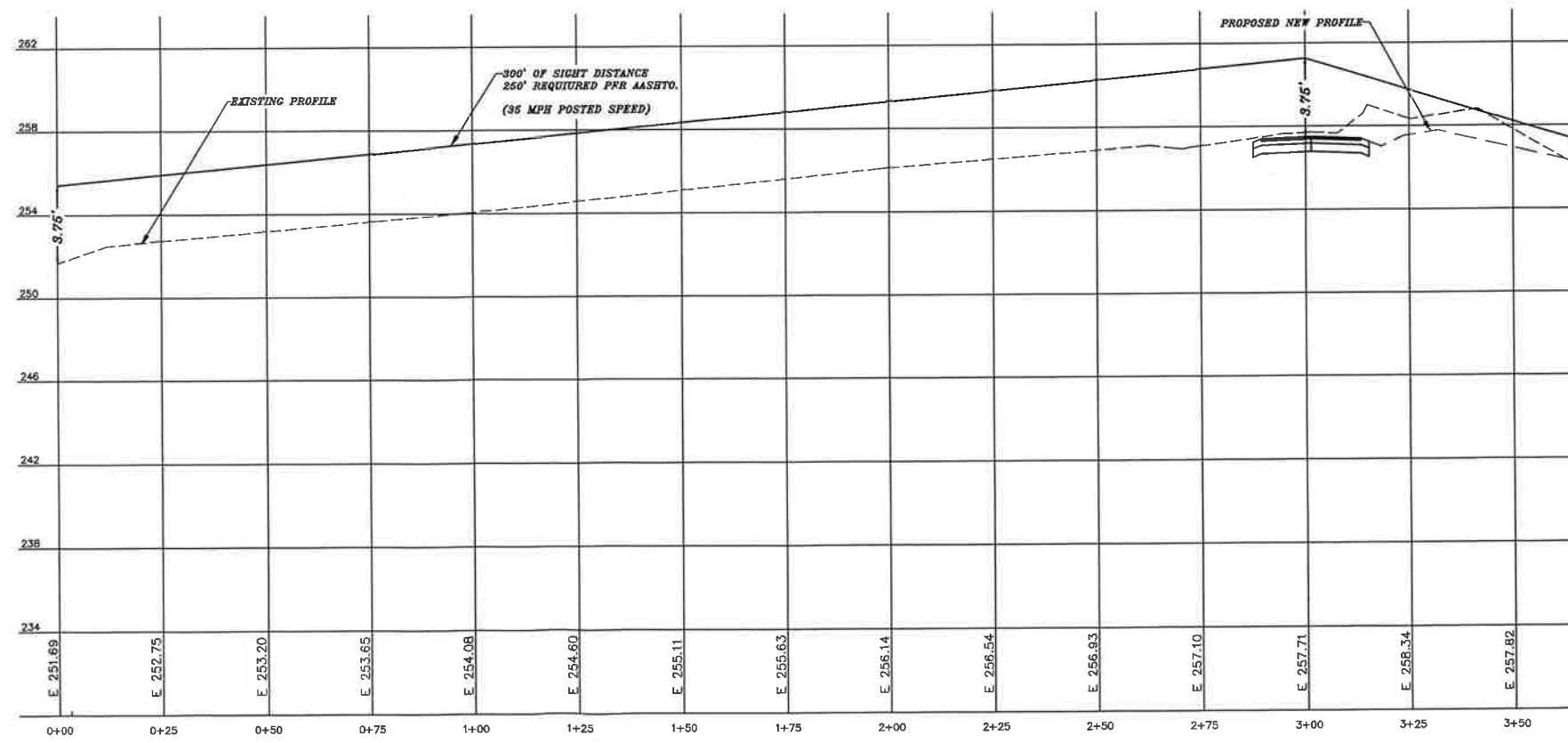


REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER ACT COMMENT
#5b	05-24-2018	NHDES WEB RESPONSE
#4	05-02-2018	ACT REVISIONS
#3	04-09-2018	GENERAL PLAN SET
#2	04-09-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET



PLAN VIEW HANSONVILLE ROAD
PROFILE VIEW SIGHT LINE

- NOTES:**
- 1.) OWNER: CRC FUTURE CORP.
26 EXETER ROAD
NEWARK, NH 03857-1908
 - 2.) APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1287
NORTH HAMPTON, NH 03862
 - 3.) LOT AREA:
A) 20,012 Sq. Ft., 0.46 Ac.
B) 602,671 Sq. Ft., 13.83 Ac.
 - 4.) S.C.R.D.
A) BOOK 2975, PAGE 489
B) BOOK 2975, PAGE 489
 - 5.) THE INTENT OF THIS PLAN IS TO PROVIDE SIGHT DISTANCE CALCULATIONS FOR MARWARI LANE LOOKING SOUTHWEST.

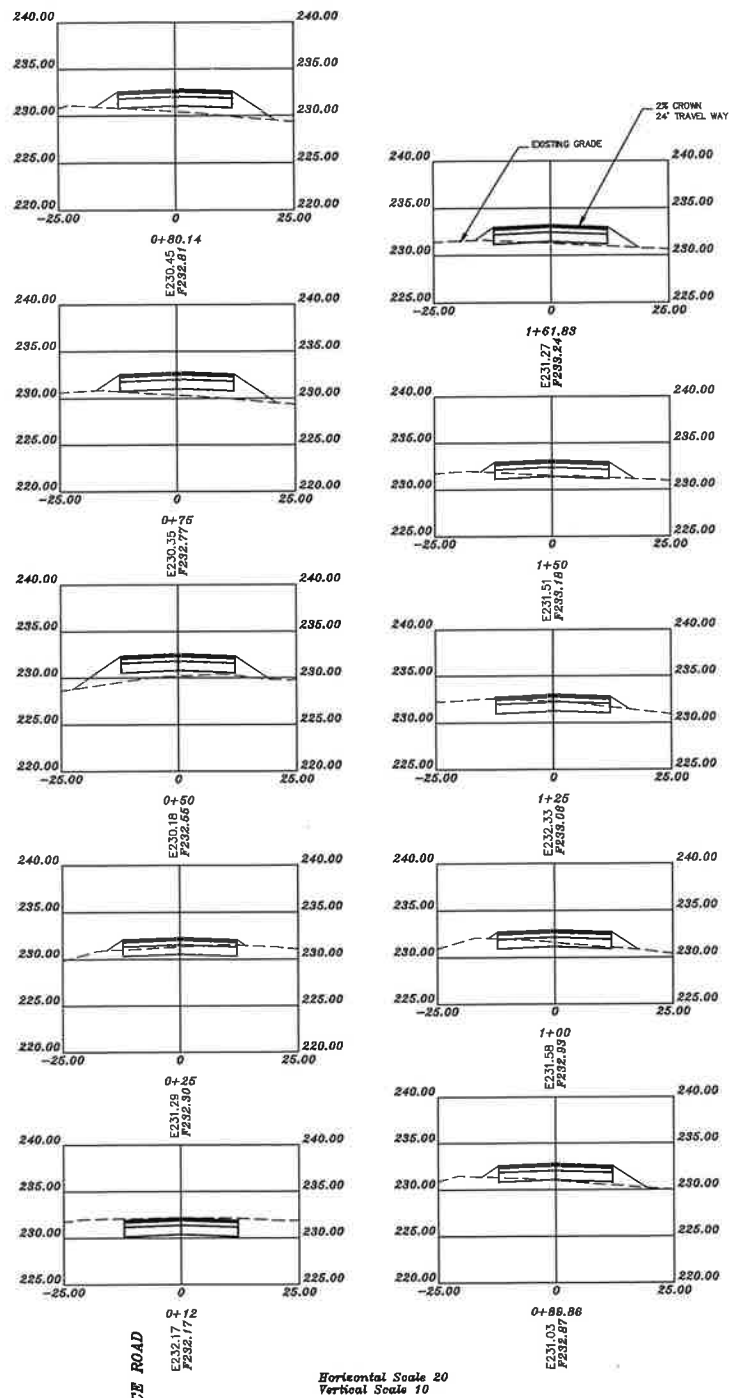


REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER AOT COMMENT
#5b	05-24-2018	NHDES WEB RESPONSE
#4	05-02-2018	AOT REVISIONS
#3	04-11-2018	GENERAL PLAN SET
#2	03-30-2018	GENERAL PLAN SET

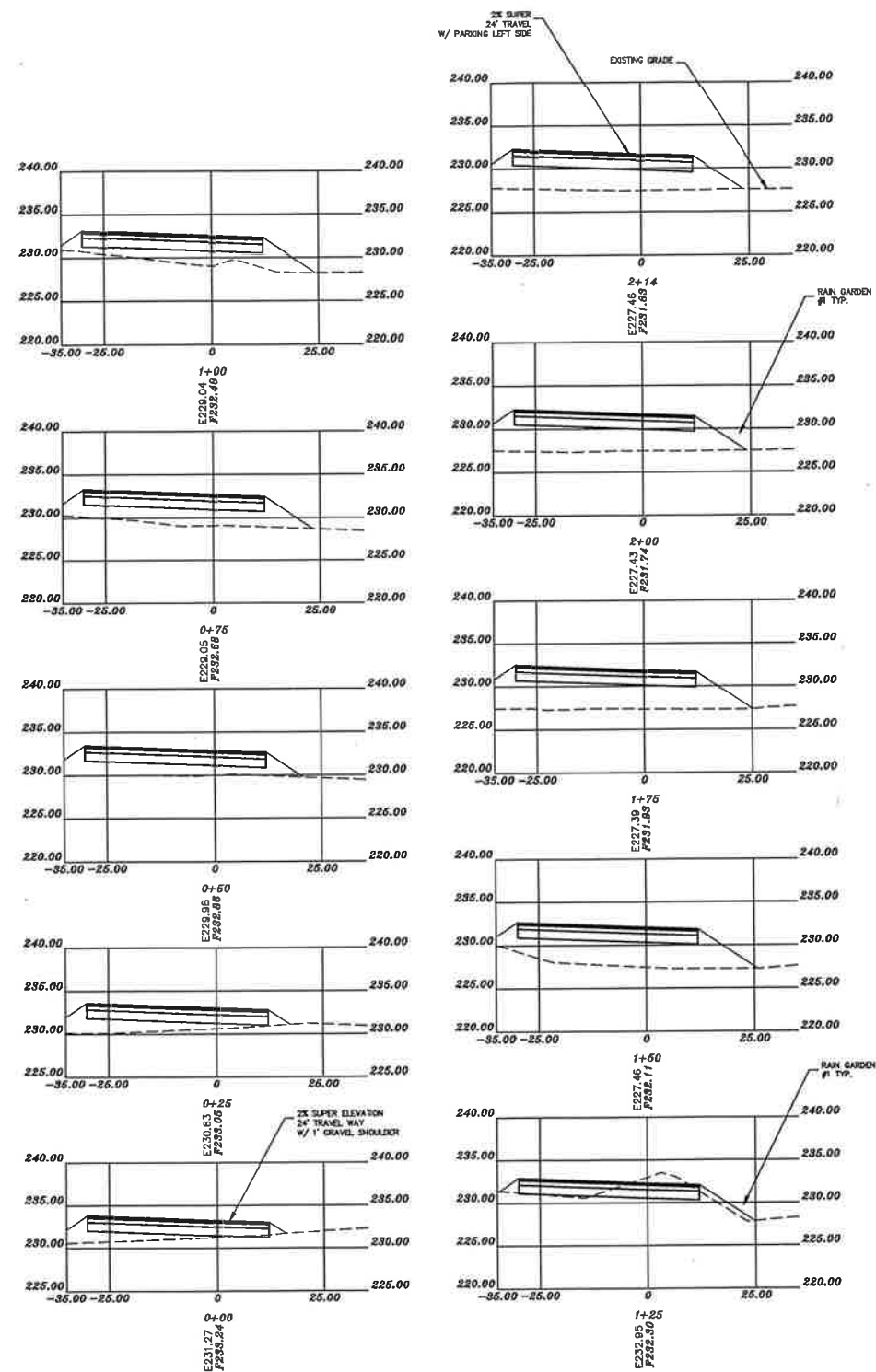
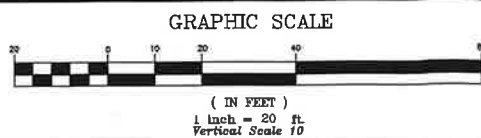
HIGHWAY ACCESS MARWARI SOUTHWEST
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)352-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167





HALF PEAK ENTRANCE ROAD



TOPAZ LANE

REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER AOT COMMENT
#5b	05-24-2018	NDHS WEB RESPONSE
#4	03-02-2018	SCHEMATIC REVISIONS
#3	04-11-2018	SCHEMATIC REVISIONS
#2	04-03-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

HALF PEAK LANE 0+00 - 1+61.83 & TOPAZ LANE 0+00 - 2+14.00
LAND OF NEW HAMPSHIRE
CRC FOR CORP.
CRC FOR CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

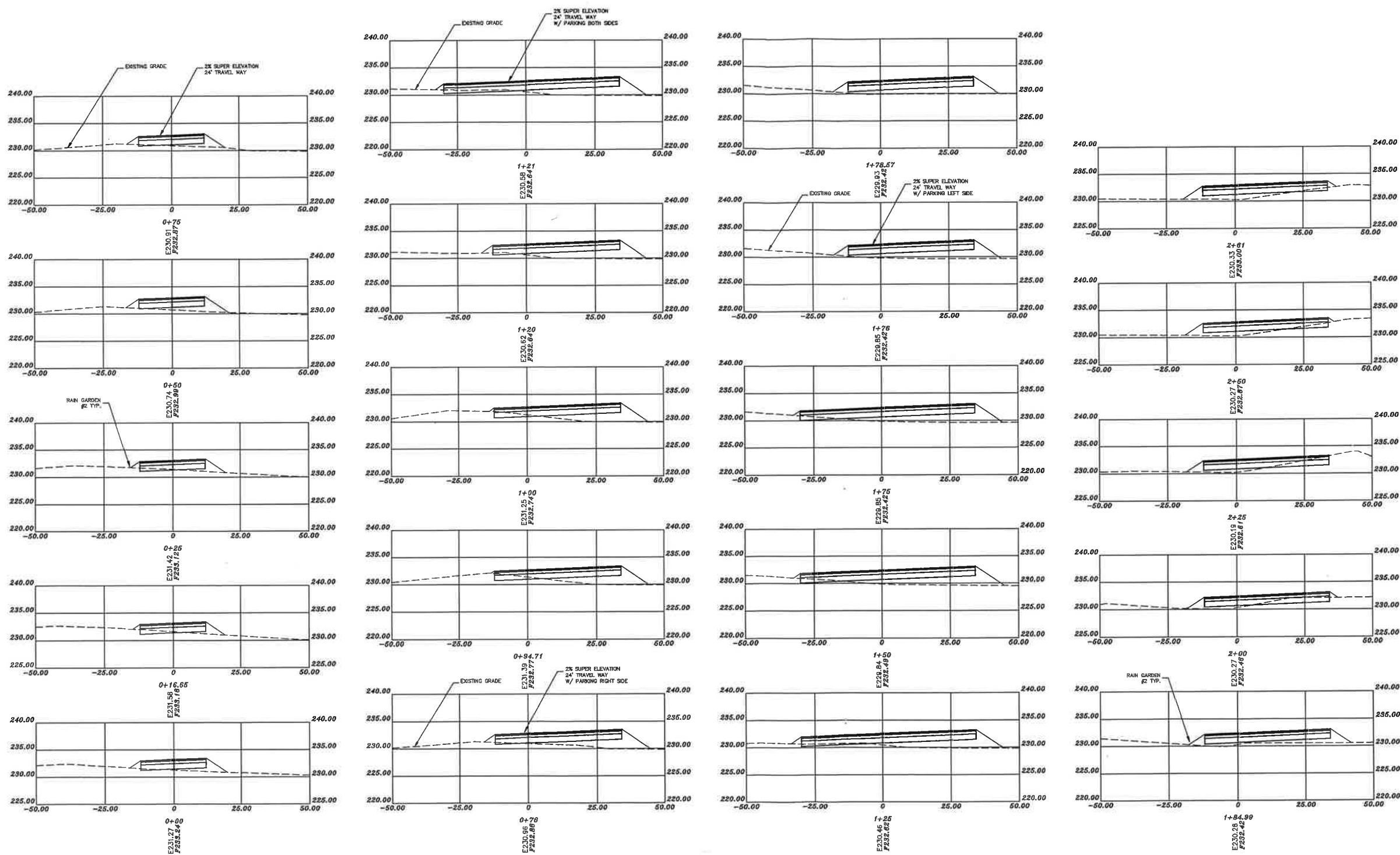
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167



GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft
Vertical Scale 10



REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6	06-18-2018	REVISED PER AOT COMMENT
#5b	05-24-2018	NHDES WEB RESPONSE
#4	05-02-2018	AOT REVISIONS
#3	04-11-2018	SEWER & WATER REVISIONS
#2	03-15-2018	GENERAL PLAN SET
#1	03-09-2018	GENERAL PLAN SET

HALF PEAK LANE CROSS SECTIONS 0+00 - 2+61.00
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HAMPSHIRE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

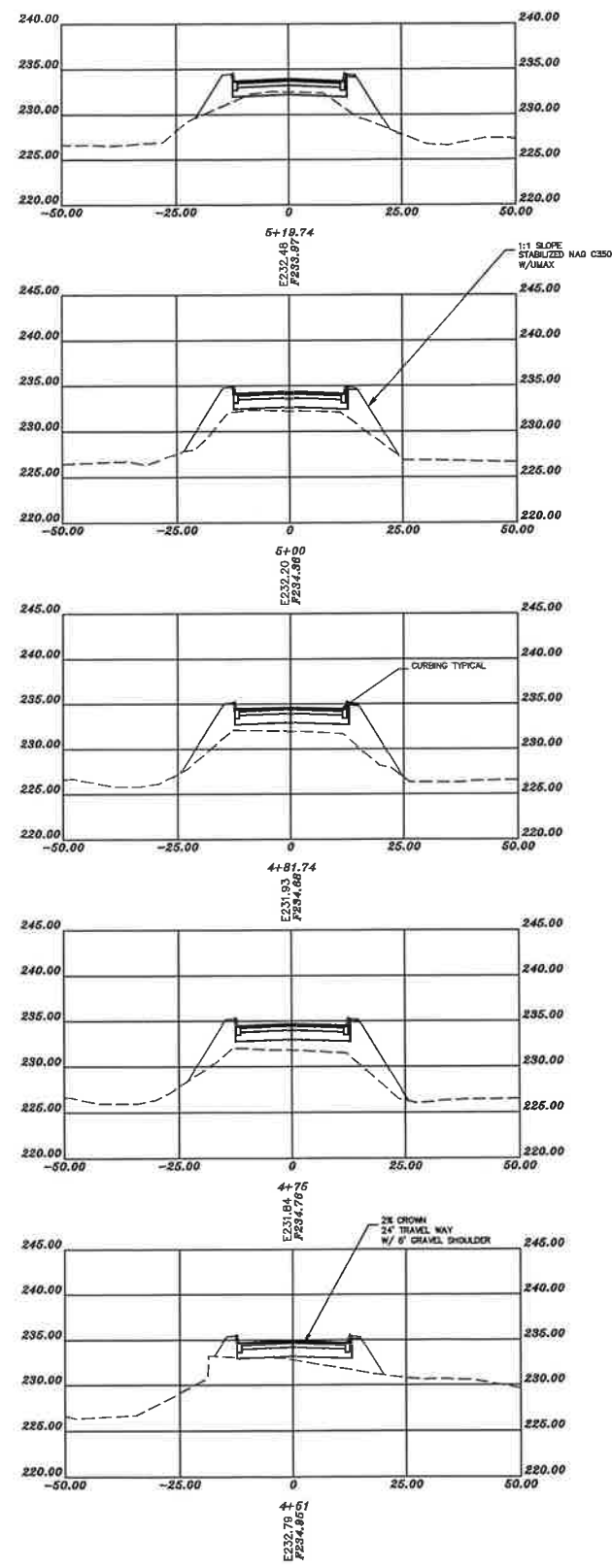
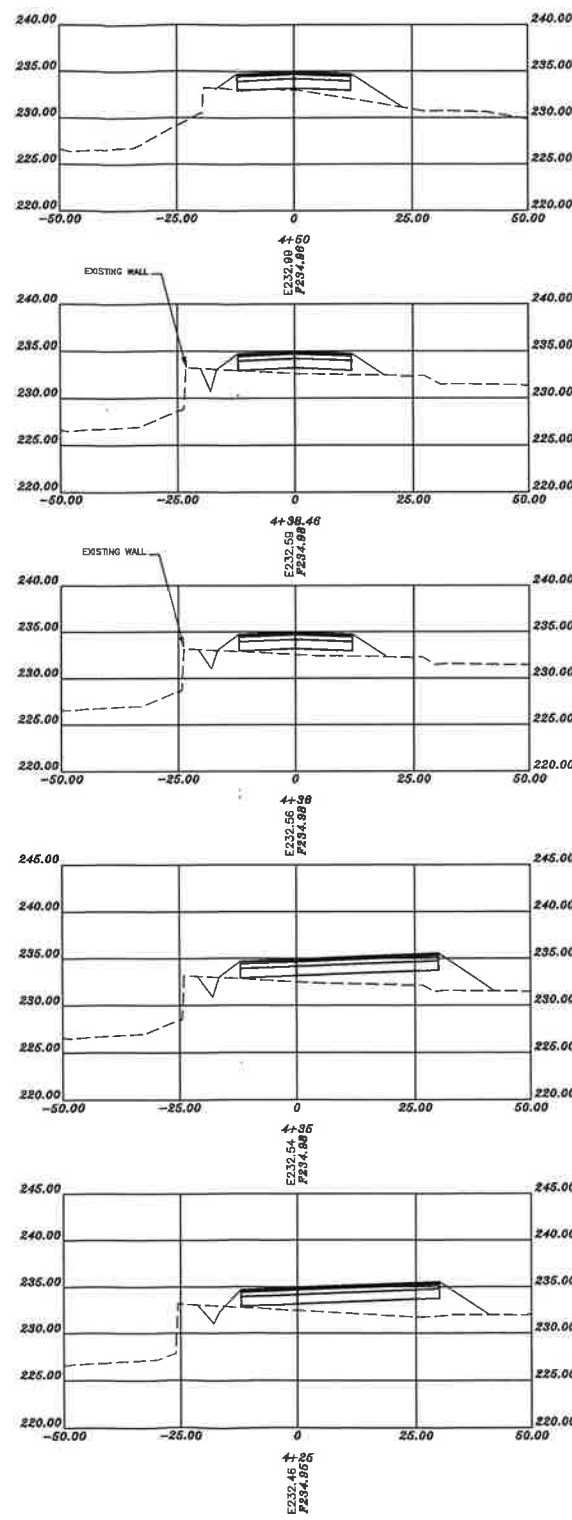
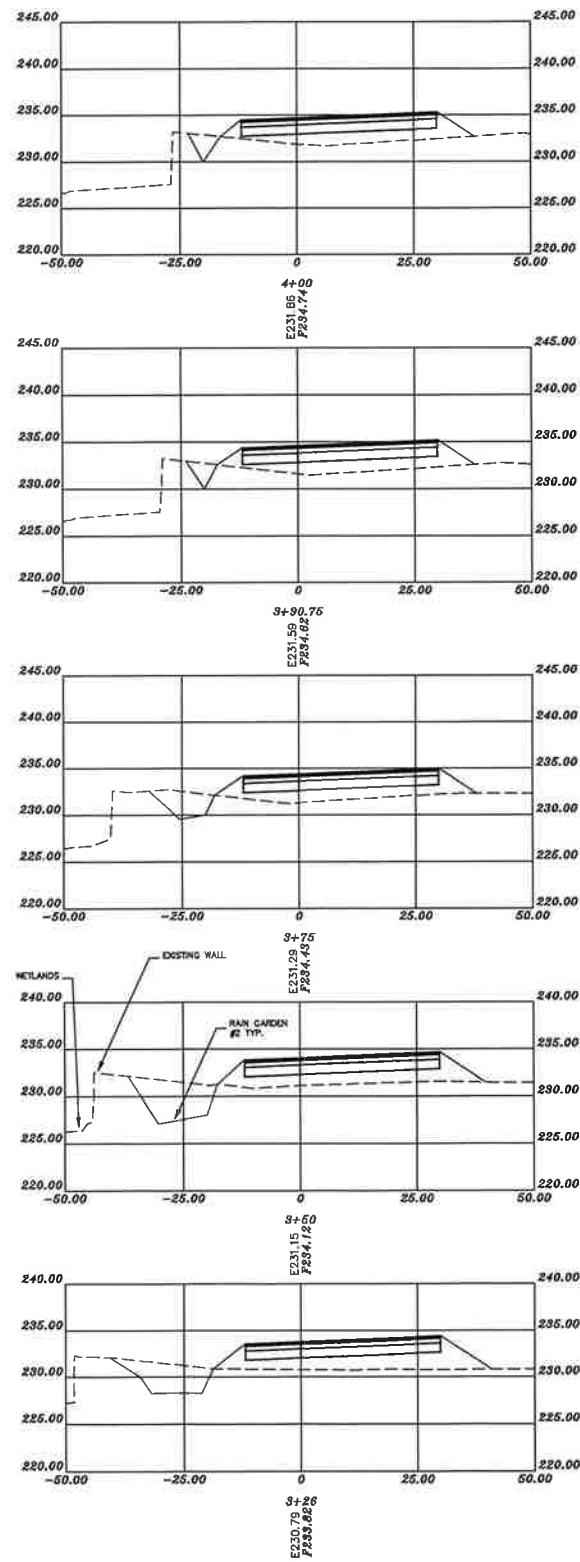
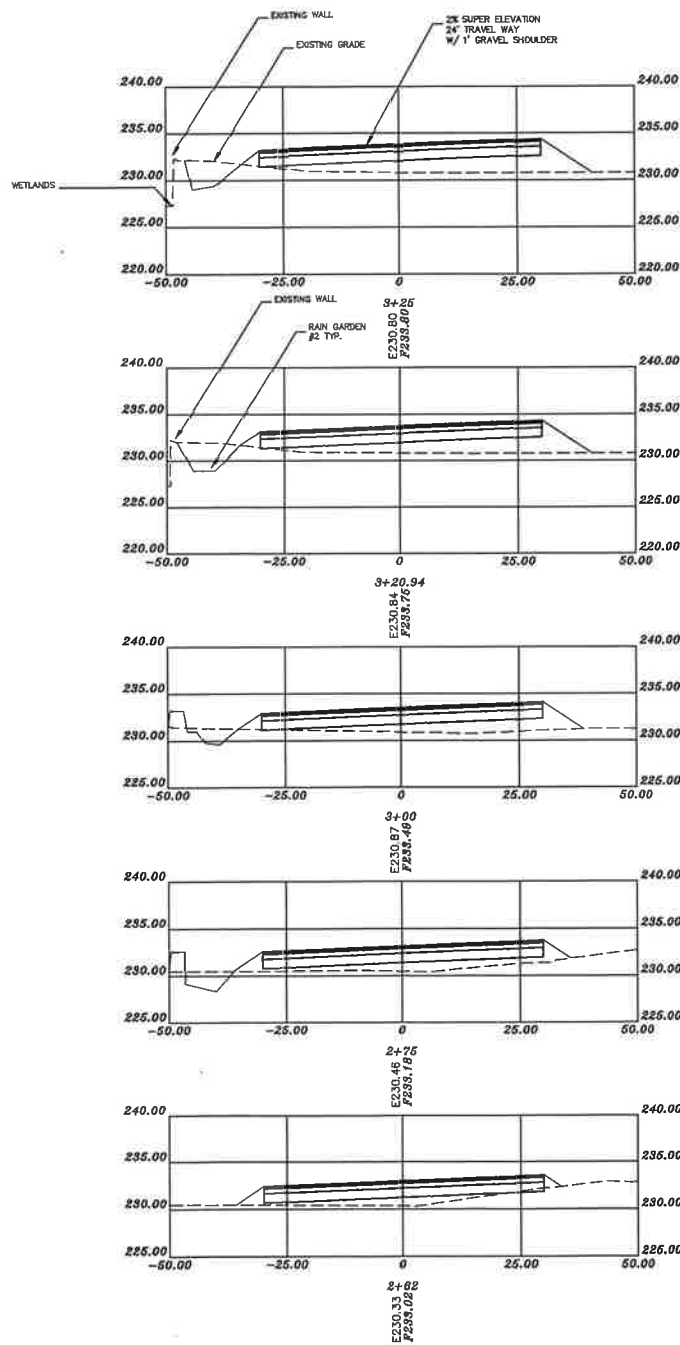
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)352-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167



GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.
Vertical Scale 10



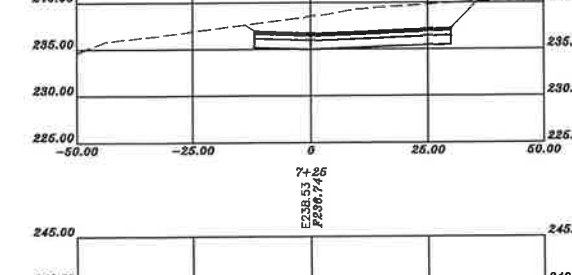
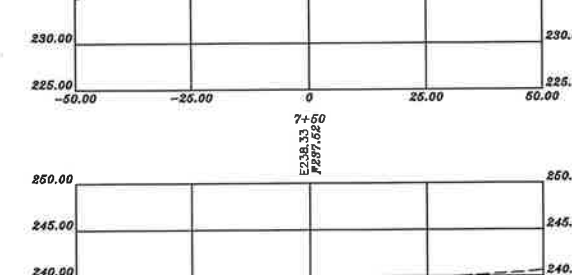
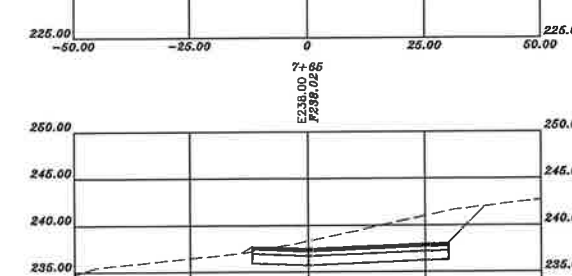
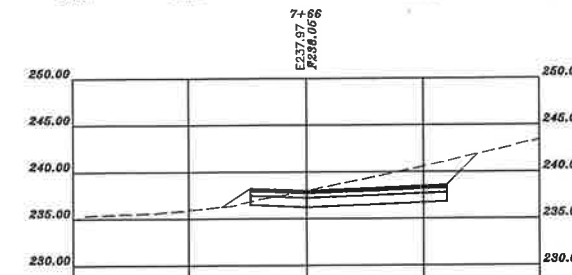
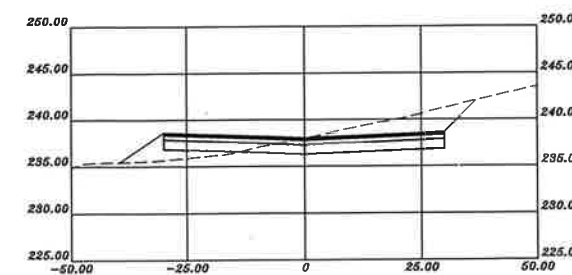
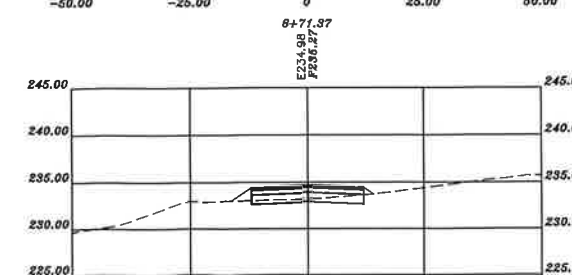
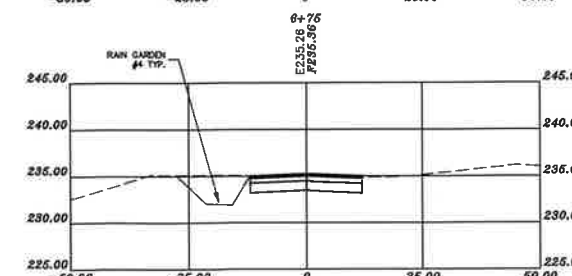
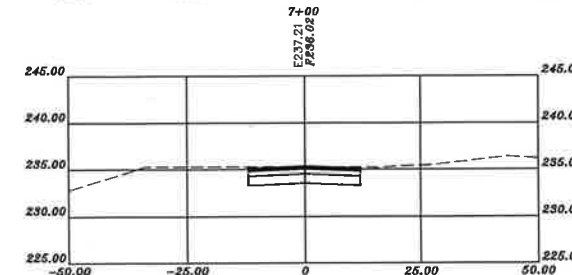
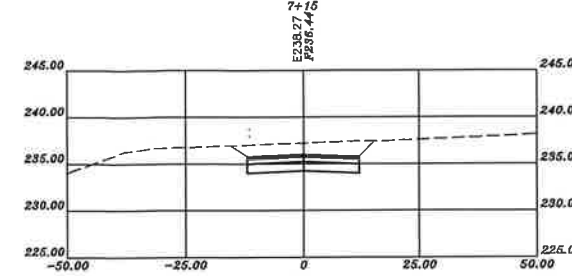
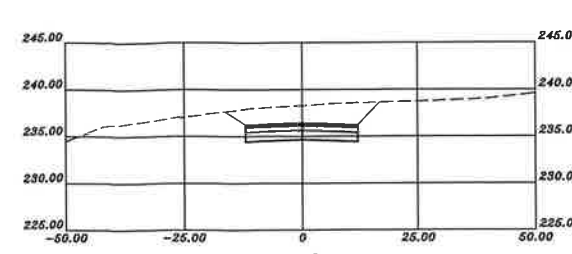
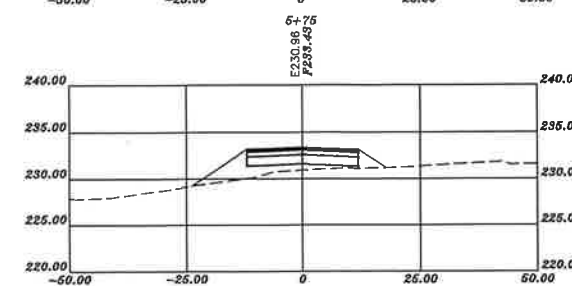
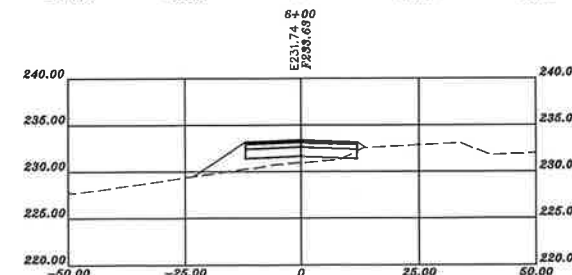
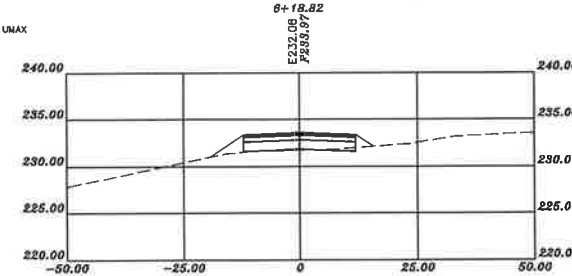
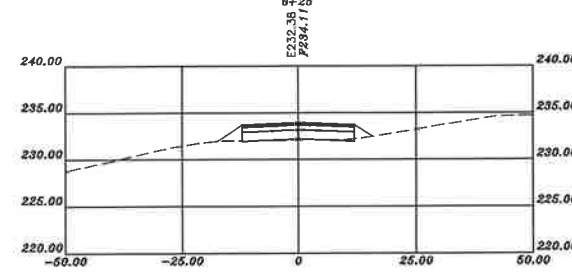
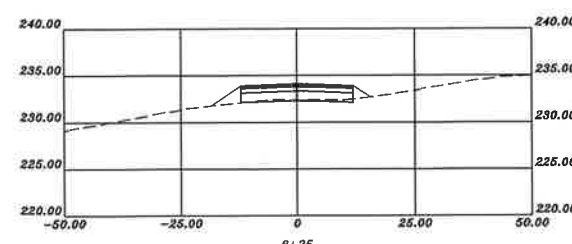
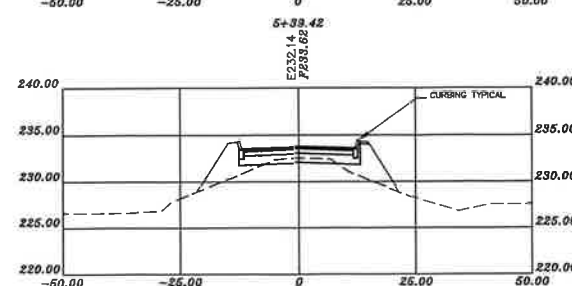
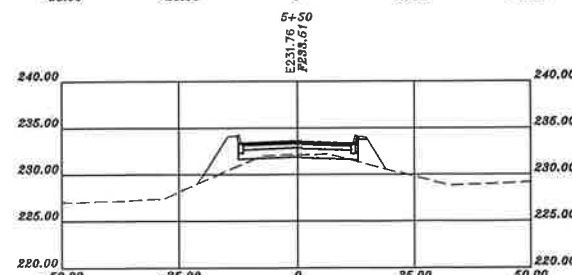
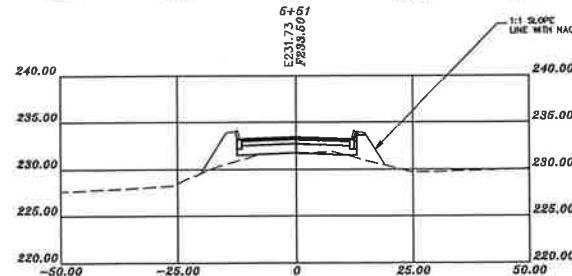
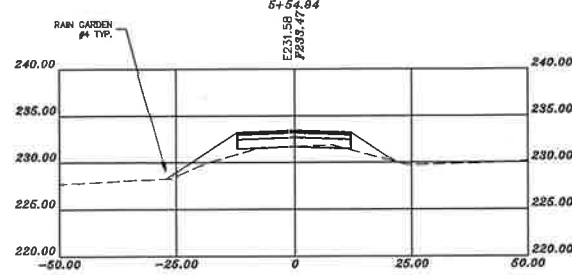
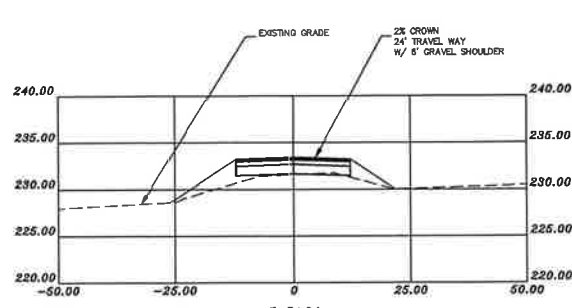
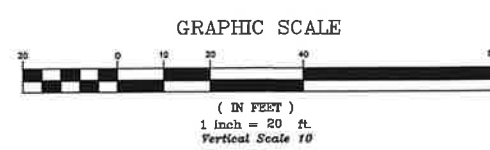
Horizontal Scale 20
Vertical Scale 10

REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6c	06-18-2018	REVISED PER AOT COMMENT
#5b	05-24-2018	REVISED WWB RESPONSE
#4	05-02-2018	AOT REVISIONS
#3	04-10-2018	REVISIONS
#2	04-10-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

HALF PEAK LANE CROSS SECTIONS 2+62 - 5+19.74	DATE
LAND OF CRC FARM CORP. FOR HALF PEAK HOLDINGS GEAR ROAD, HANSONVILLE ROAD, TESSER DRIVE ROCHESTER, NH 03867	REVISION
TAX MAP 251, LOT 120 & 121	DESCRIPTION

BERRY SURVEYING & ENGINEERING	FILE NO. : DB 2017 - 167
335 SECOND CROWN POINT ROAD	
BARRINGTON, NH 03825 (603)332-2863	
SCALE : 1 IN. EQUALS 20 FT.	
DATE : JANUARY 22, 2018	





Horizontal Scale 20'

Vertical Scale 10'

REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER ACT COMMENT
#5b	05-24-2018	NHDES WEB RESPONSE
#4	05-02-2018	AOT REVISIONS
#3	04-11-2018	REVISIONS
#2	03-01-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

HALF PEAK LANE CROSS SECTIONS 5+25 - 7+65

LAND OF
CRC FUTURE CORP.

HALF PEAK HOLDINGS

GEAR ROAD, ROCHESTER, NH 03867

TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING

335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603) 332-2863

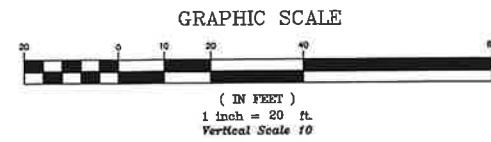
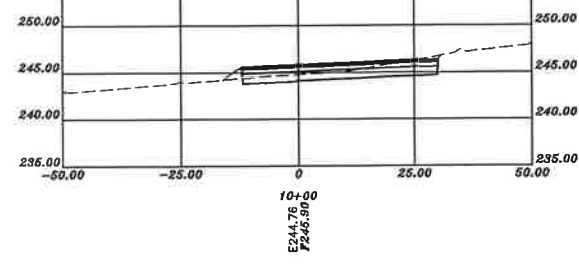
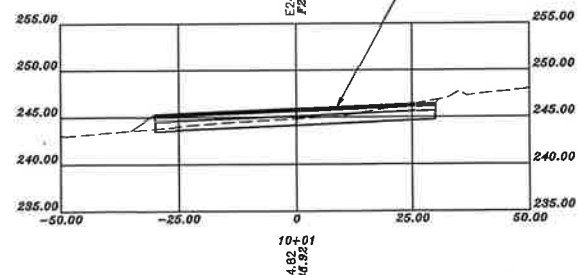
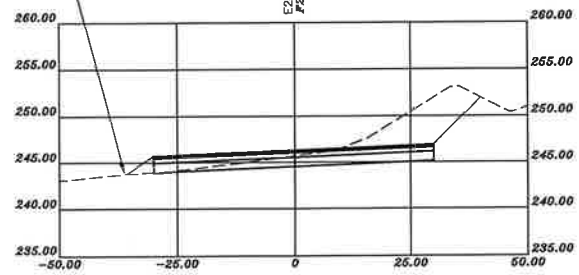
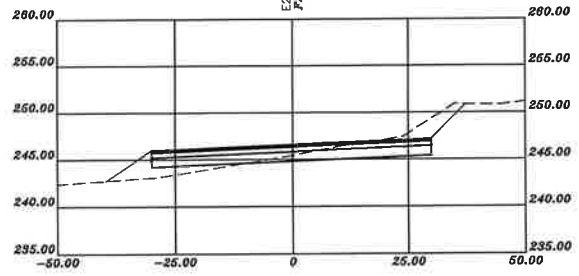
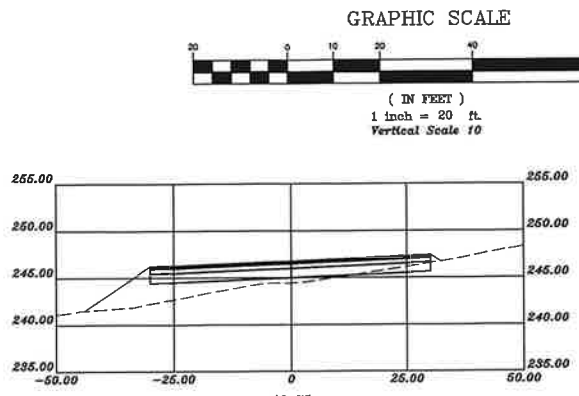
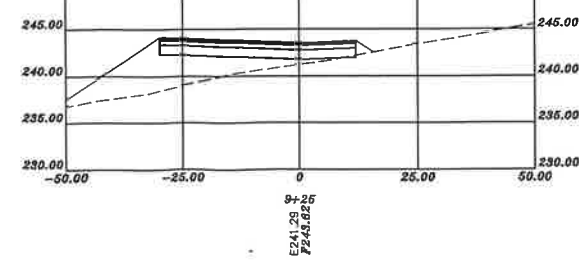
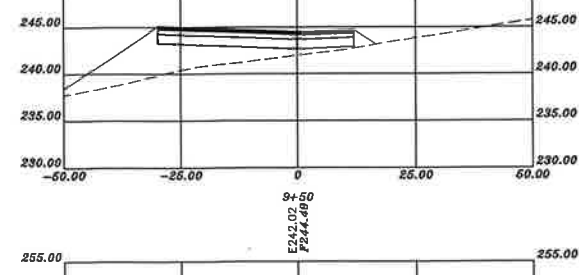
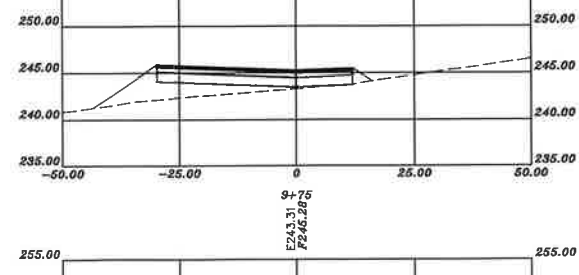
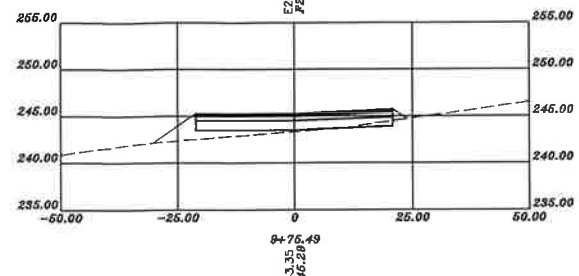
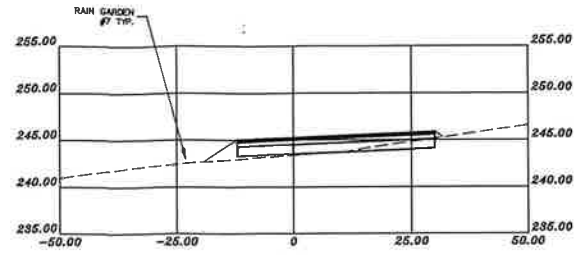
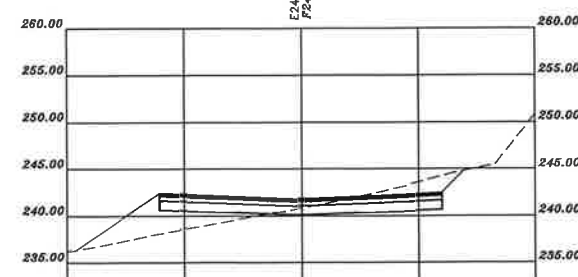
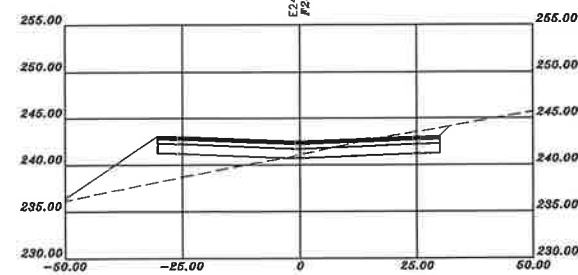
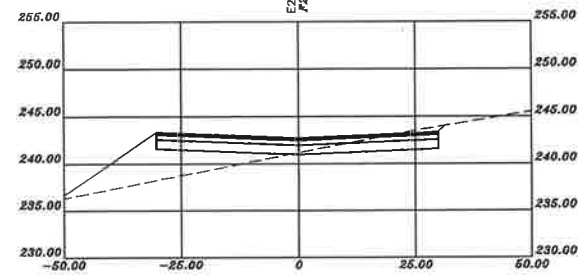
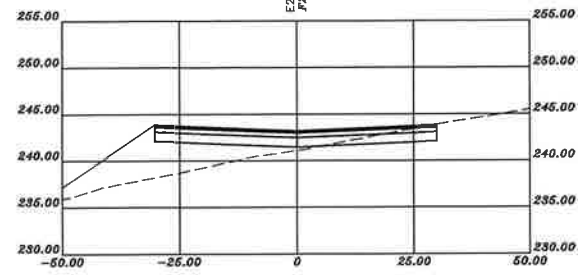
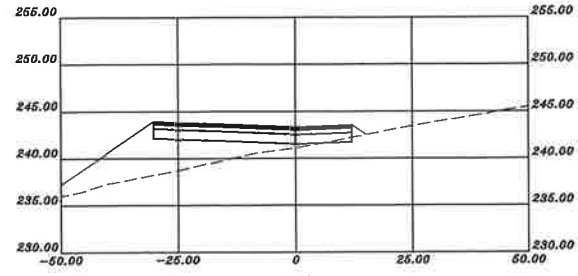
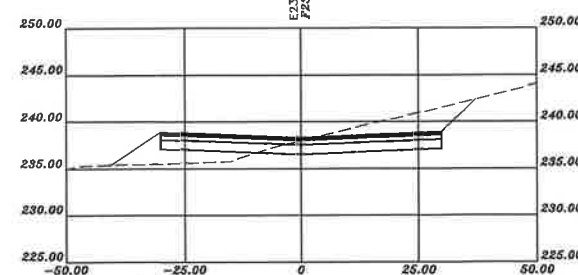
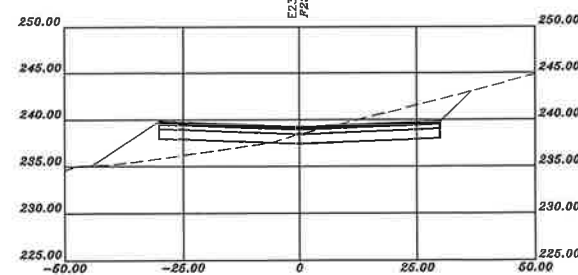
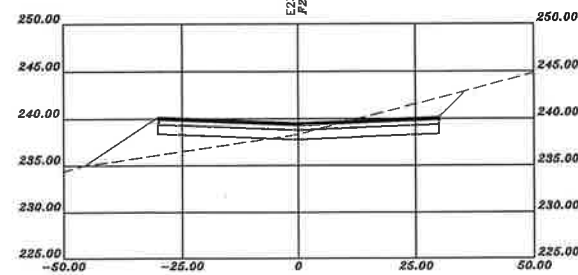
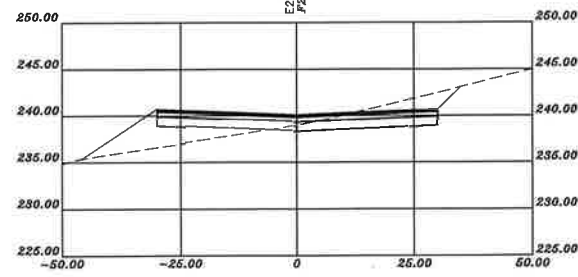
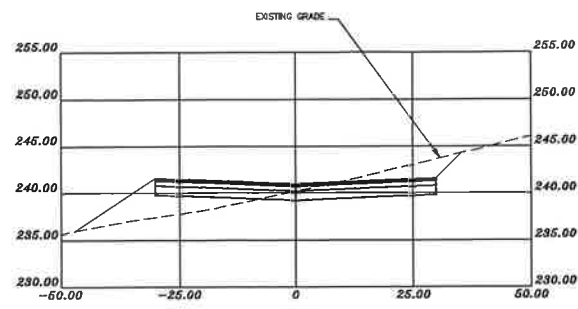
SCALE : 1 IN. EQUALS 20 FT.

DATE : JANUARY 22, 2018

FILE NO. : DB 2017 - 167

SHEET 58 OF 76

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 1441
LICENSED PROFESSIONAL ENGINEER

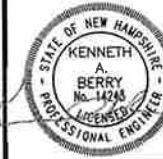


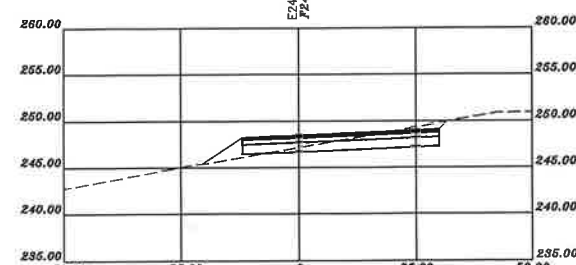
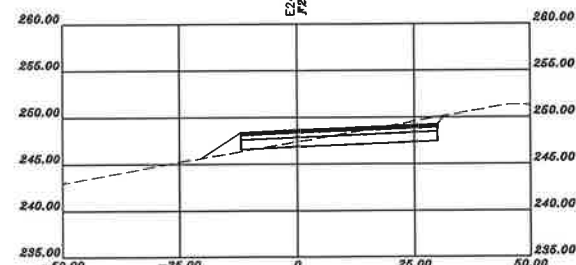
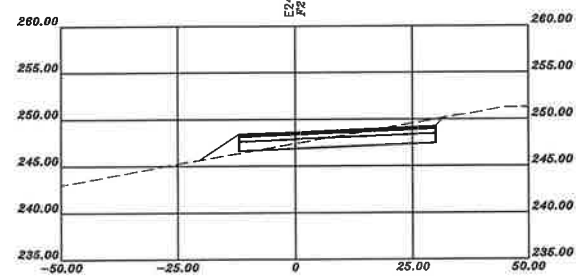
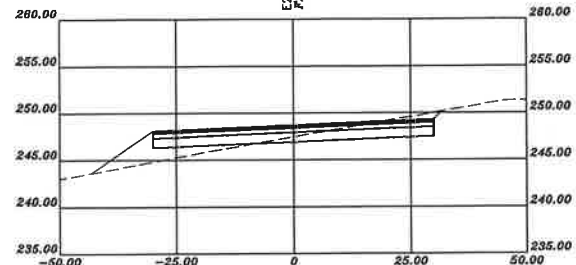
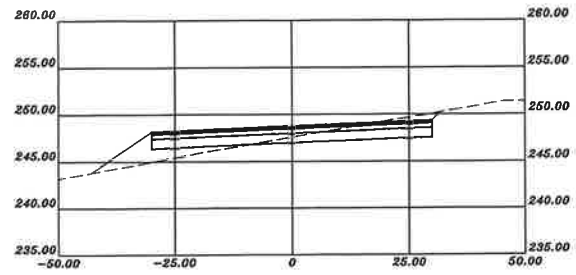
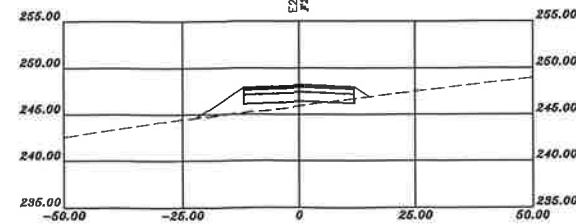
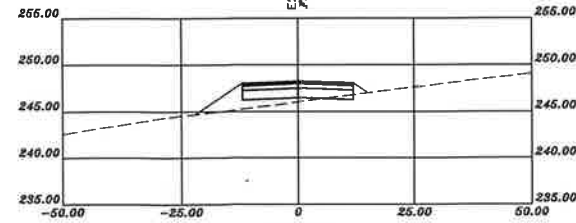
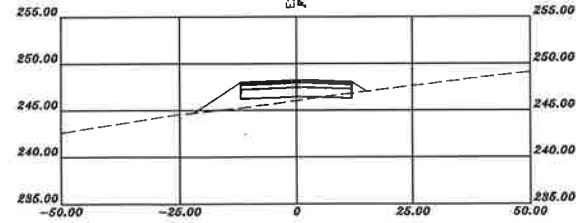
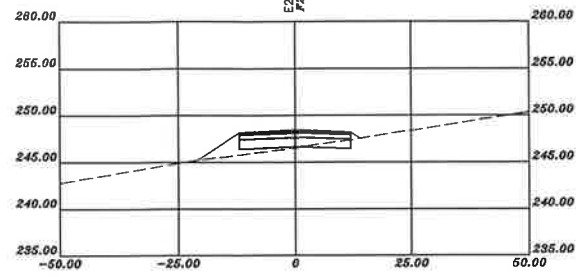
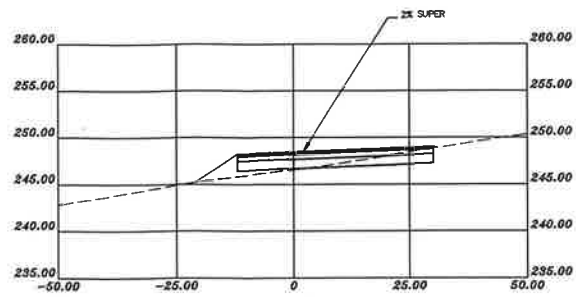
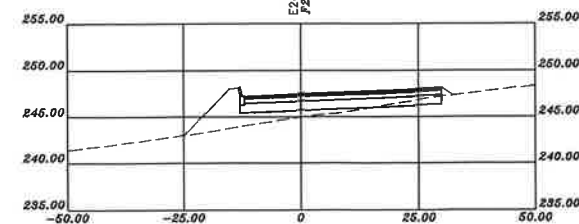
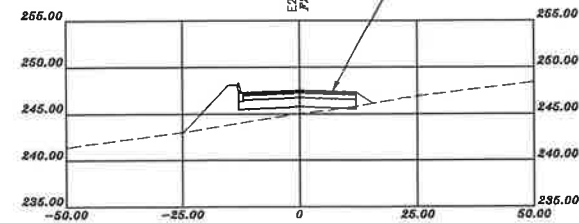
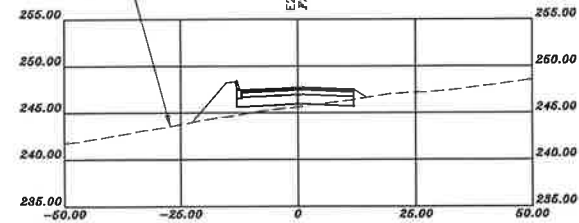
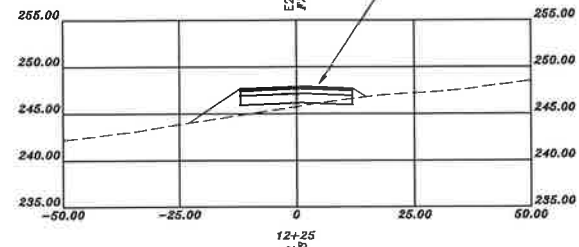
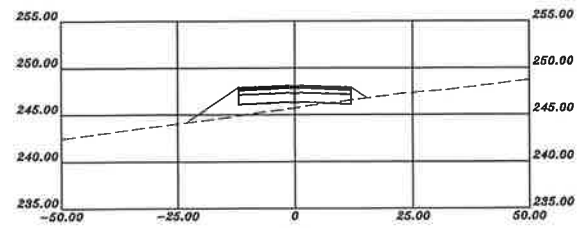
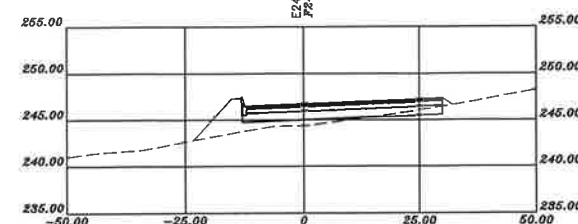
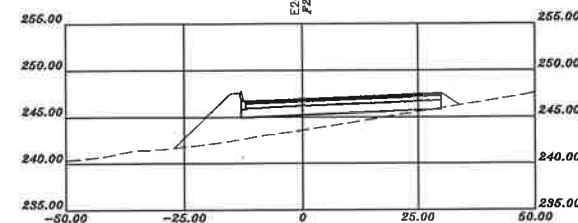
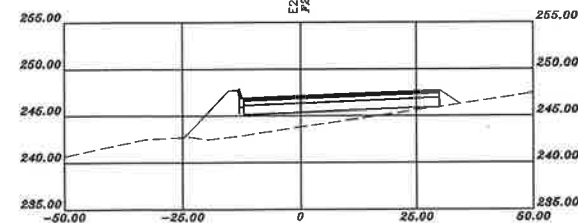
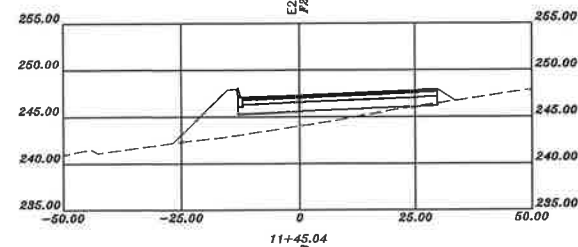
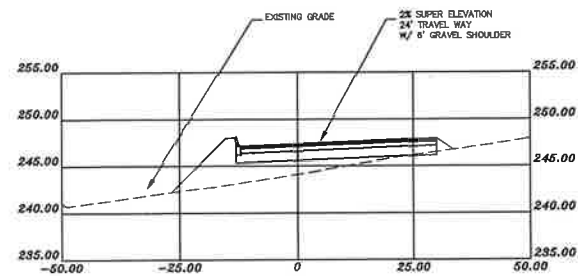
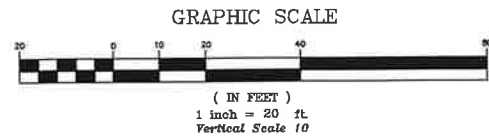
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REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER ACT COMMENT
#5b	05-24-2018	NHDES WEB RESPONSE
#4	05-02-2018	ACT REVISIONS
#3	04-11-2018	REVISIONS
#2	04-03-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

HALF PEAK LANE CROSS SECTIONS 7+75 - 10+75
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167





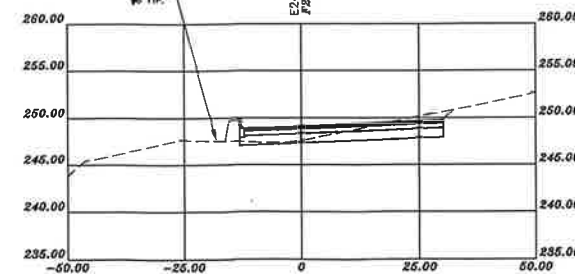
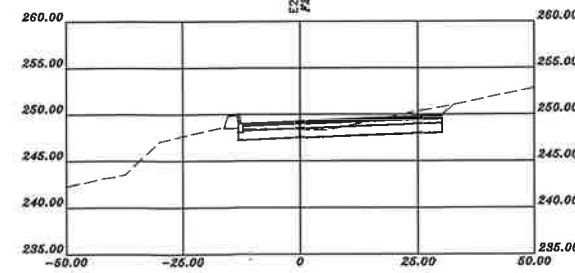
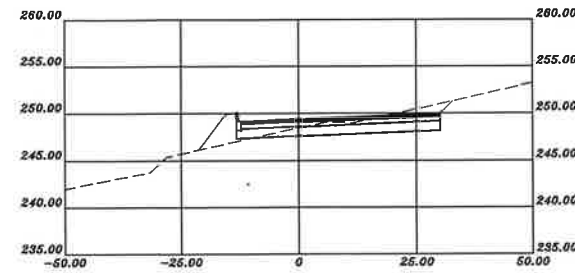
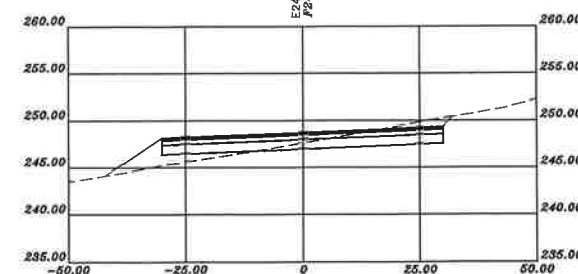
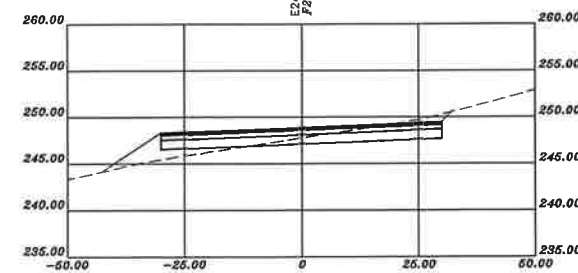
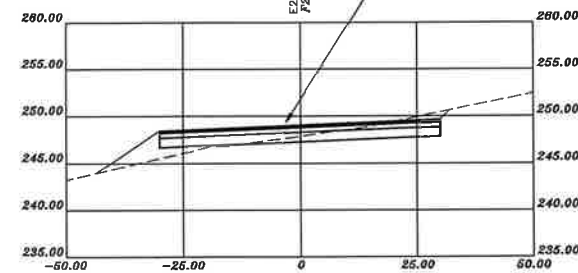
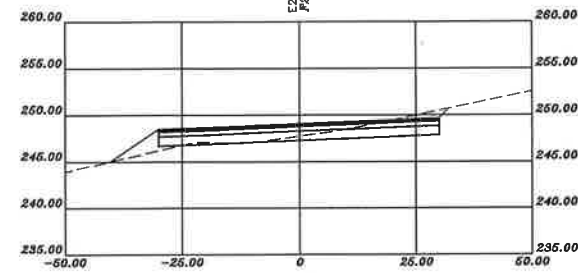
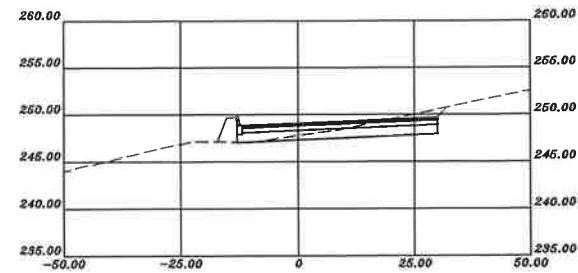
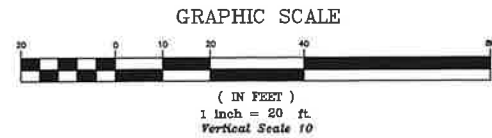
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REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER AOT COMMENT
#5b	05-24-2018	NHDES WEB RESPONSE
#4	05-02-2018	AOT REVISIONS
#3	04-11-2018	REVISIONS
#2	04-03-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

HALF PEAK LANE CROSS SECTIONS 10+76 - 13+57.06
LAND OF
CRC FUTURE CORP.
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167





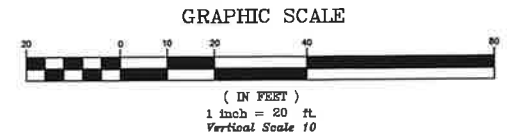
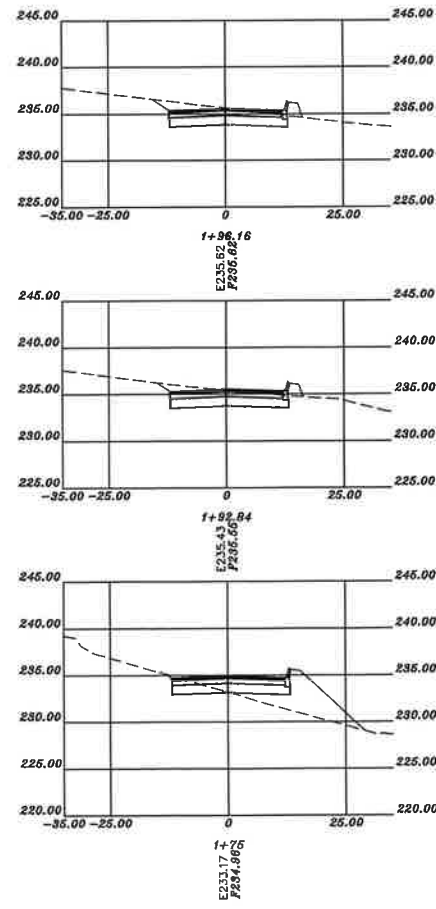
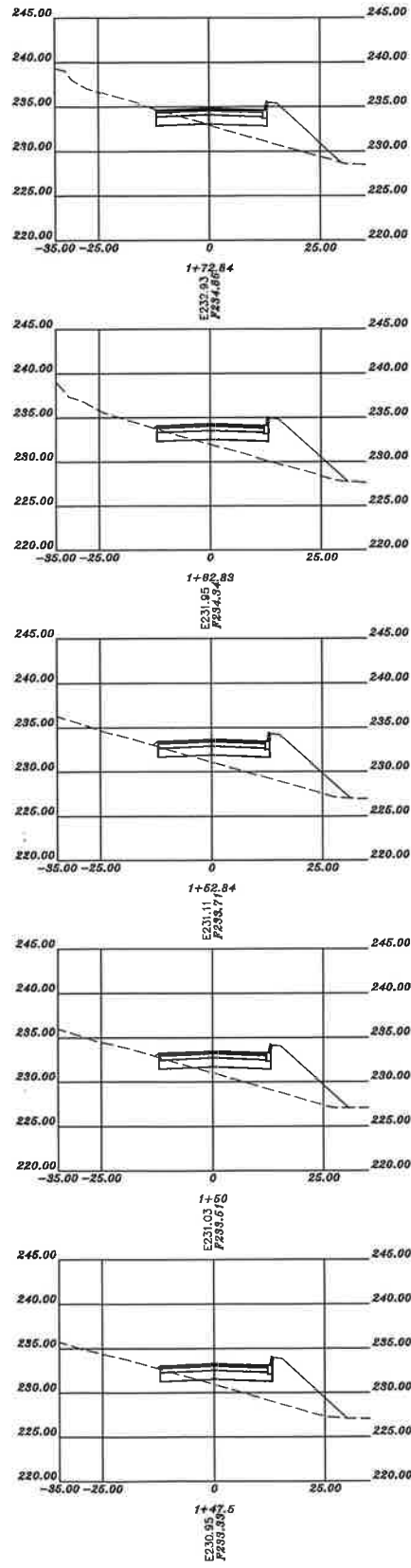
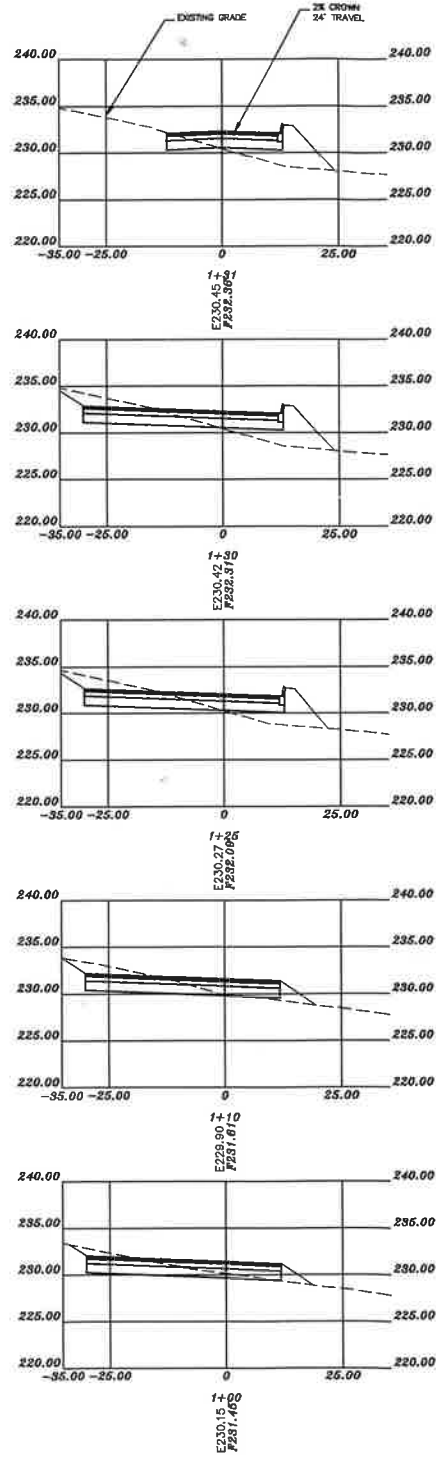
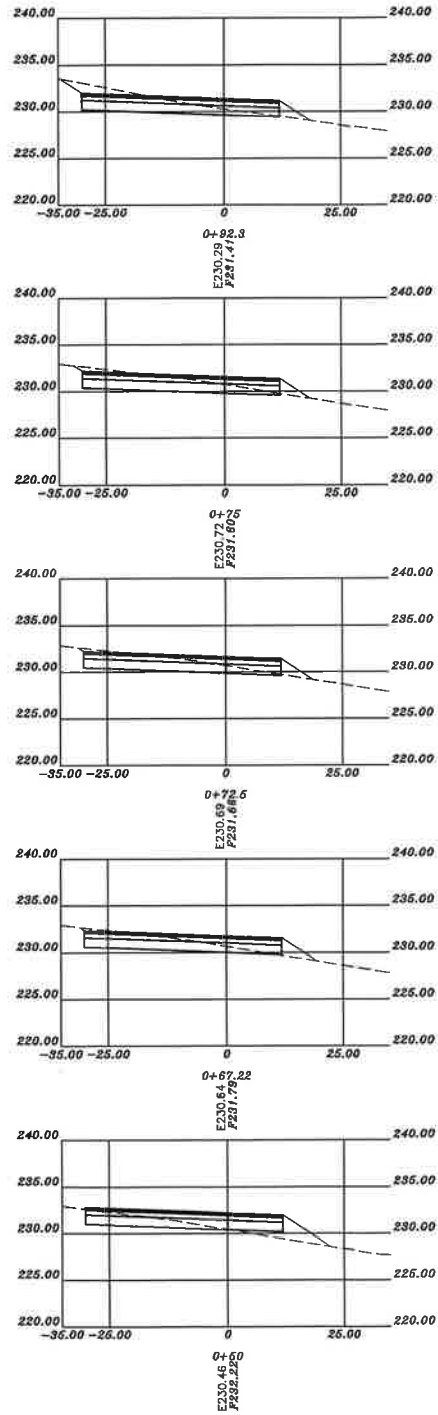
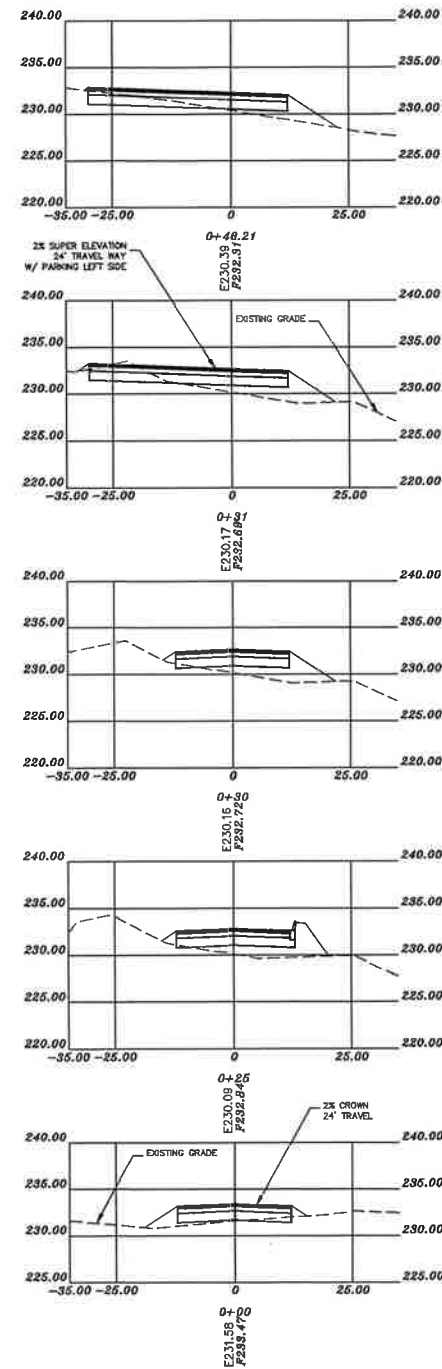
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REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER ACT COMMENT
#5b	06-24-2018	REVISED PER WEB RESPONSE
#4	05-02-2018	REVISED PER COMMENTS
#3	04-09-2018	REVISED PER COMMENTS
#2	04-09-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

HALF PEAK LANE CROSS SECTIONS 13+75 -- END
LAND OF
CRC FUTURE CORP.
FOR
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 261, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167



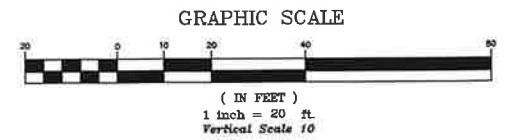
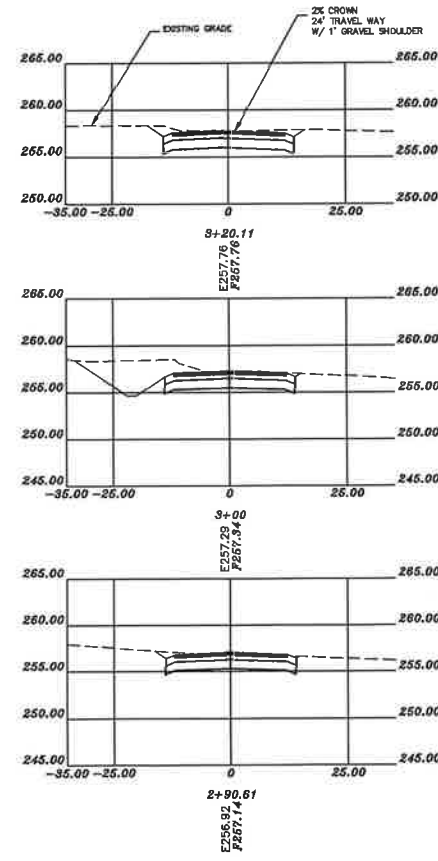
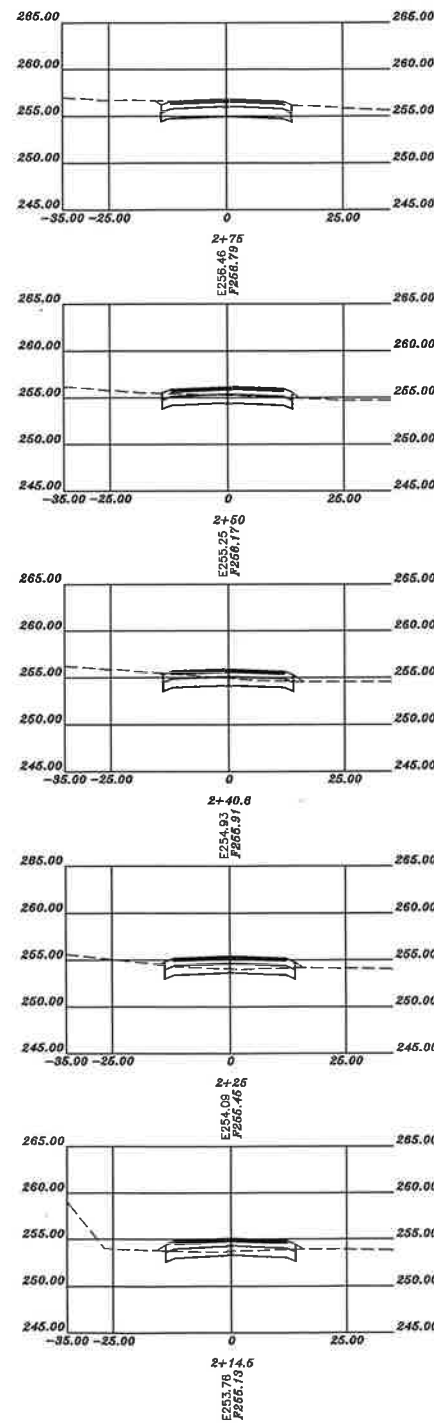
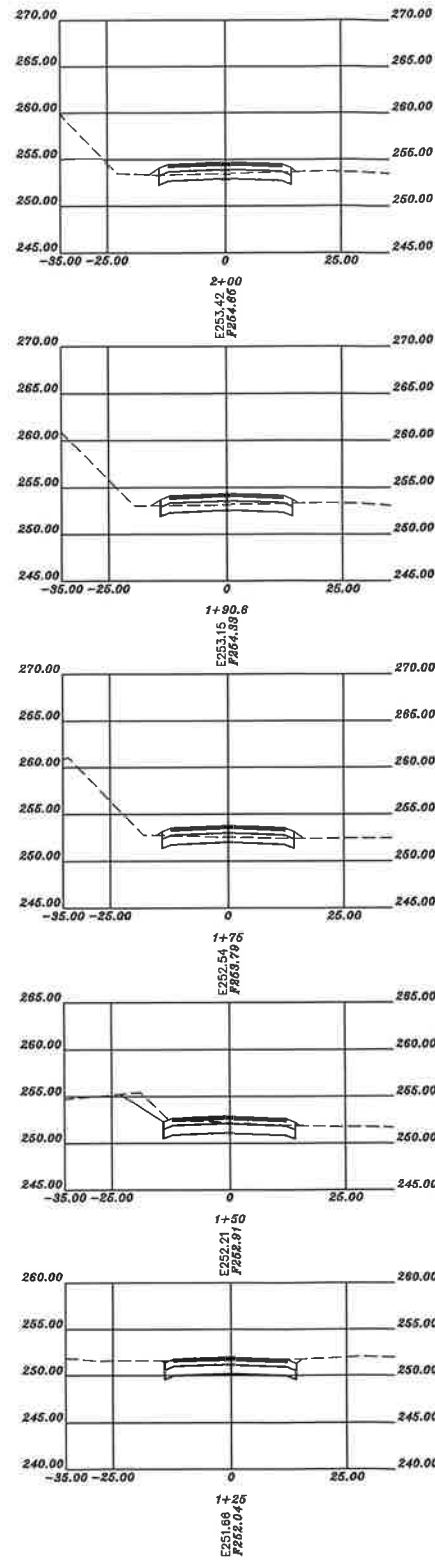
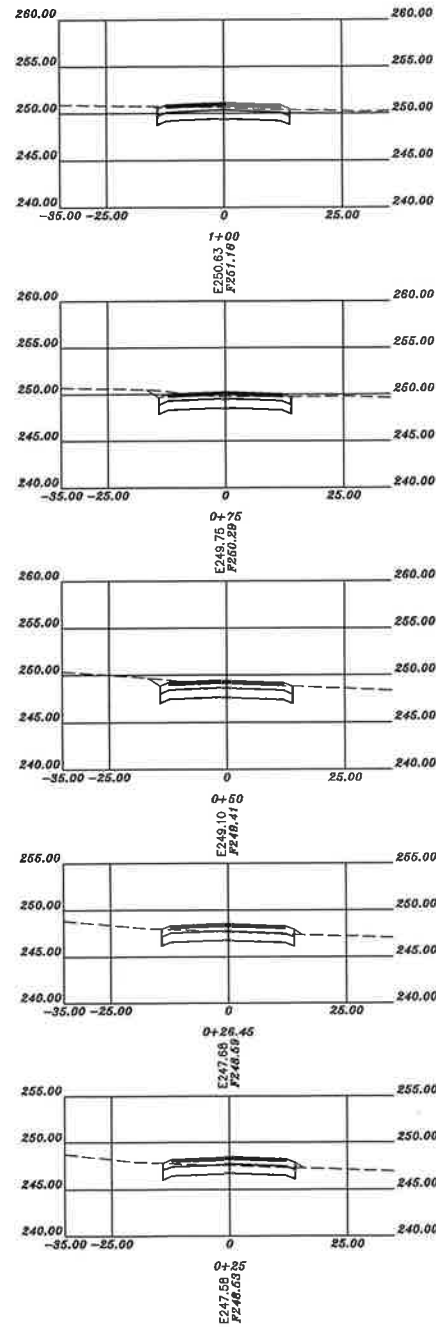
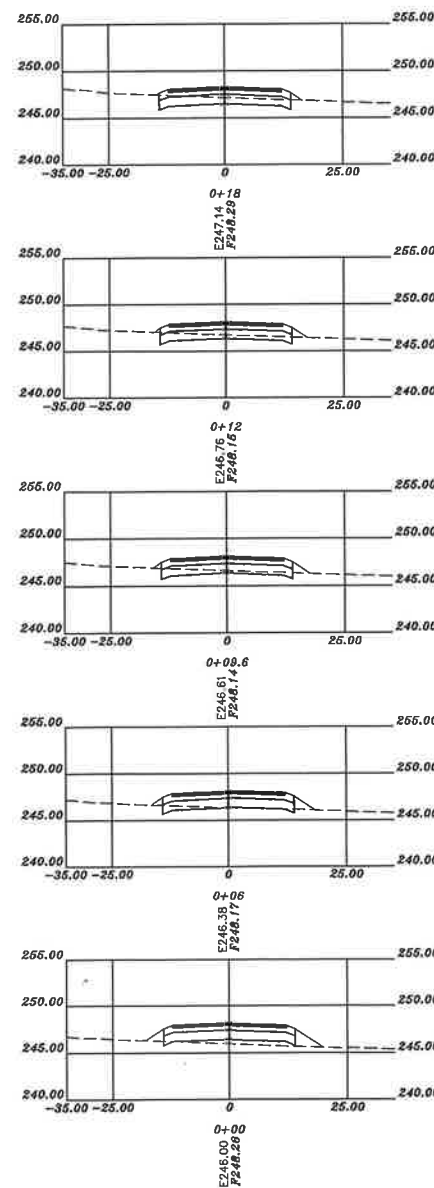


Horizontal Scale 20
Vertical Scale 10

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167

JAY PEAK LANE CROSS SECTIONS 0+00 - 1+96.16
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03667
TAX MAP 251, LOT 120 & 121

REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER ACT COMMENT
#5b	05-24-2018	REVISED WMB RESPONSE
#4	05-02-2018	ACT REVISIONS
#3	04-11-2018	SEWER & WATER REVISIONS
#2	04-04-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET



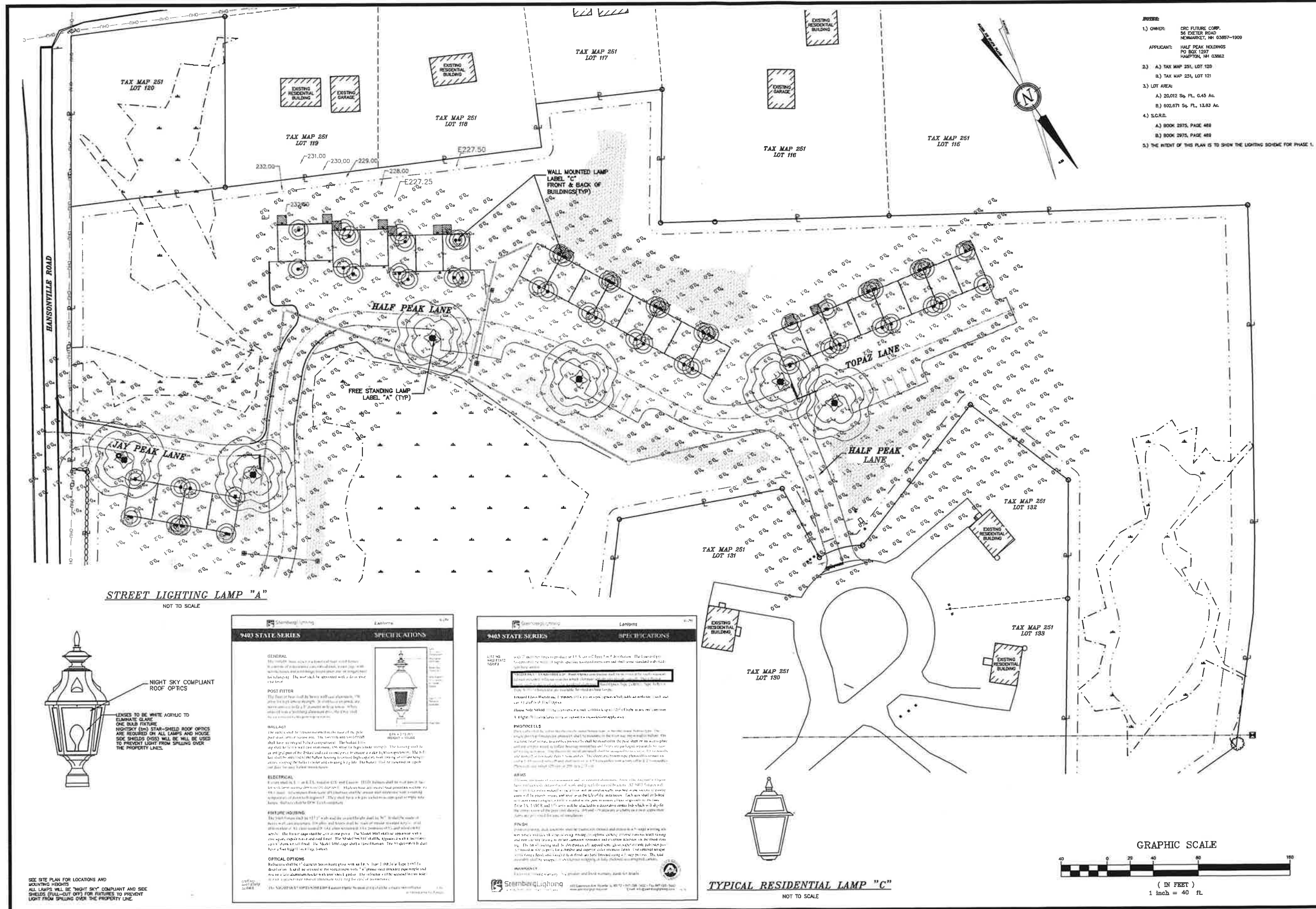
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BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 20 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14743
LICENSED PROFESSIONAL ENGINEER

MARWARI LANE CROSS SECTIONS 0+00 - 3+20.11
LAND OF
CRC FUTURE CORP.
FOR
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER AOT COMMENT
#5b	05-24-2018	NHDES WEB RESPONSE
#4	05-02-2018	AOT REVISIONS
#3	04-12-2018	GENERAL PLAN SET
#2	04-09-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET



- NOTES:
- 1) OWNER: CRC FUTURE CORP.
36 EXETER ROAD
NEWMARCT, NH 03857-1909
 - 2) APPLICANT: HALF PEAK HOLDINGS
PO BOX 1297
HAMPTON, NH 03842
 - 3) LOT AREA:
A) 20,012 Sq. Ft., 0.45 Ac.
B) 602,671 Sq. Ft., 13.83 Ac.
 - 4) S.G.R.D.
A) BOOK 2975, PAGE 468
B) BOOK 2975, PAGE 468
 - 5) THE INTENT OF THIS PLAN IS TO SHOW THE LIGHTING SCHEME FOR PHASE I.

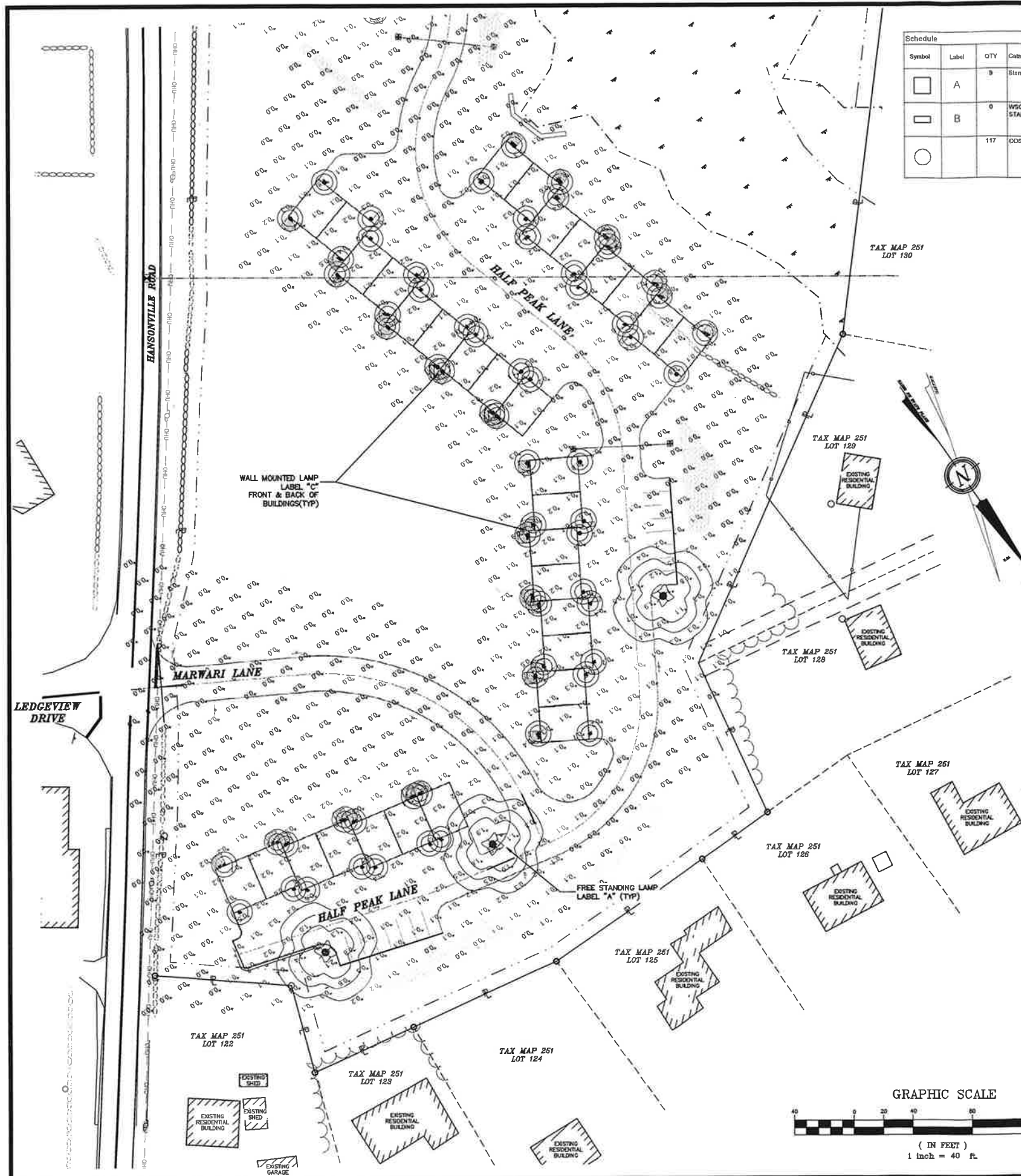
SUBMITTED FOR CONSTRUCTION		DATE	DESCRIPTION
07-30-2018	#1		GENERAL PLAN SET
06-18-2018	#2		REVISIONS
05-24-2018	#3		REVISIONS
05-02-2018	#4		REVISIONS
04-11-2018	#5		REVISIONS
03-30-2018	#6		REVISIONS

LIGHTING PLAN - PHASE I	
CRC FUTURE CORP.	
HALF PEAK HOLDINGS	
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE	
TAX MAP 251, LOT 120 & 121	

BERRY SURVEYING & ENGINEERING	
335 SECOND CROWN POINT ROAD	
BARRINGTON, NH 03825 (603)332-2863	
SCALE :	1 IN. EQUALS 40 FT.
DATE :	JANUARY 22, 2018
FILE NO. :	DB 2017 - 167

KENNETH A. BERRY
PROFESSIONAL ENGINEER
STATE OF NEW HAMPSHIRE
LICENSE NO. 14743

SHEET 64 OF 76



Schedule									
Symbol	Label	QTY	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	LF	Wattage
	A	9	Slamberg 8630	CAST ALUMINUM HOUSING, TRANSLUCENT WHITE GLASS CHAMELY SURROUNDING LAMP, CLEAR ACRYLIC ENCLOSURE.	ONE CLEAR VBO M57 175 WATT B71 METAL HALIDE LAMP RATED AT 14,000 LUMENS.	1	14000	1	175
	B	0	WSQ 150W FT PULSE START)	ARCHITECTURAL SCIENCE WITH FORWARD THROWN DISTRIBUTION WITH CLEAR, FLAT GLASS LENS, CLEAR LAMP, MEETS THE "NIGHTTIME FRIENDLY" CRITERIA	ONE 150-WATT CLEAR ED17 PULSE START METAL HALIDE, HORIZONTAL POS.	1	14000	1	189
		117	ODSL10 SRC	CRAFTSON WALL MOUNTED SMALL DECORATIVE LANTERN, ONE LAMP 13W SPIRAL COMPACT FLUORESCENT, WHITE GLASS DIFFUSER 4.25" DIA. X 6.62" HIGH, ELECTRONIC BALLAST	ONE 13-WATT T4 SPIRAL COMPACT FLUORESCENT, VERTICAL BASE UP POSITION.	1	900	1	12.5

SEE SITE PLAN FOR LOCATIONS AND MOUNTING HEIGHTS
ALL LAMPS WILL BE "NIGHT SKY" COMPLIANT AND SIDE SHIELDS (FULL-CUT OFF) FOR FIXTURES TO PREVENT LIGHT FROM SPILLING OVER THE PROPERTY LINE.

NOTES:

1.) OWNER: CRC FUTURE CORP.
58 EXETER ROAD
NEWBURY, NH 03057-1909

APPLICANT: HALL PEAK HOLDINGS
PO BOX 1297
HAMPTON, NH 03842

2.) A) TAX MAP 251, LOT 120
B) TAX MAP 251, LOT 121

3.) LOT AREA:
A.) 20,012 Sq. Ft. 0.45 Ac.
B.) 502,671 Sq. Ft. 13.63 Ac.

4.) S.C.R.D.
A.) BOOK 2375, PAGE 469
B.) BOOK 2375, PAGE 468

5.) THE INTENT OF THIS PLAN IS TO SHOW THE LIGHTING SCHEME FOR PHASE 2.

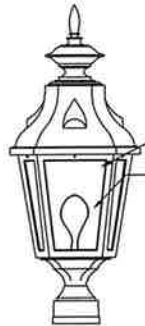
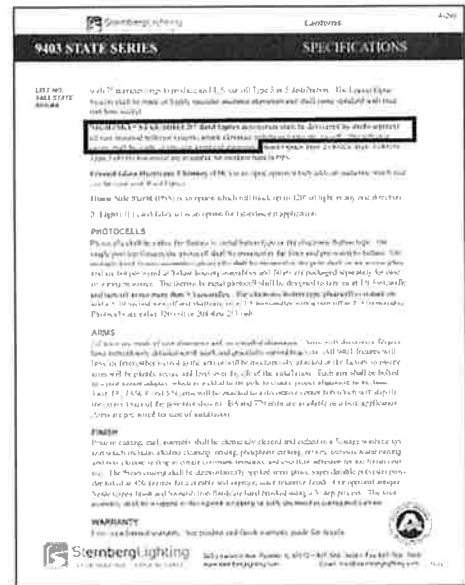
REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER AOT COMMENT
#5b	06-18-2018	NHDES WEBS RESPONSE
#5	05-24-2018	AOT REVISIONS
#4	05-02-2018	SEWER & WATER REVISIONS
#3	04-11-2018	SEWER & WATER REVISIONS
#2	03-30-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

LIGHTING PLAN — PHASE II
LAND OF
CRC FUTURE CORP.
10000 HIGHWAY 1
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 130 & 121

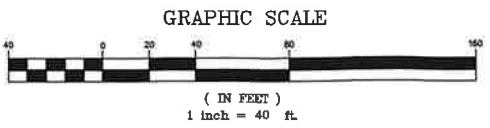
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)532-2863
SCALE : 1 IN. EQUALS 40 FT.
DATE : JANUARY 22, 2018

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
10-14793
LICENSED PROFESSIONAL ENGINEER

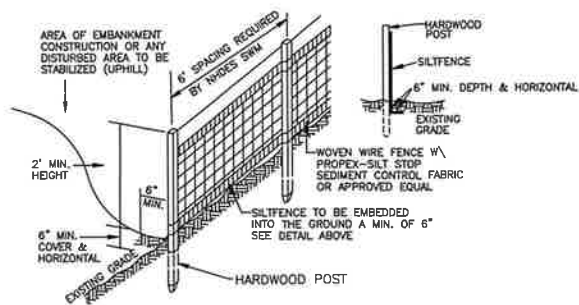
SHEET 65 OF 76



— LENSES TO BE WHITE ACRYLIC TO ELIMINATE GLARE
— ONE BULB FIXTURE
— NIGHTSKY (TM) STAR-SHIELD ROOF OPTICS ARE REQUIRED ON ALL LAMPS AND HOUSE
— SIDE SHIELDS (ISS) WILL BE USED TO PREVENT LIGHT FROM SPILLING OVER THE PROPERTY LINES.

[illegible]

E1

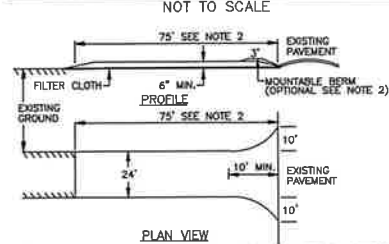


SILT FENCE CONSTRUCTION SPECIFICATIONS

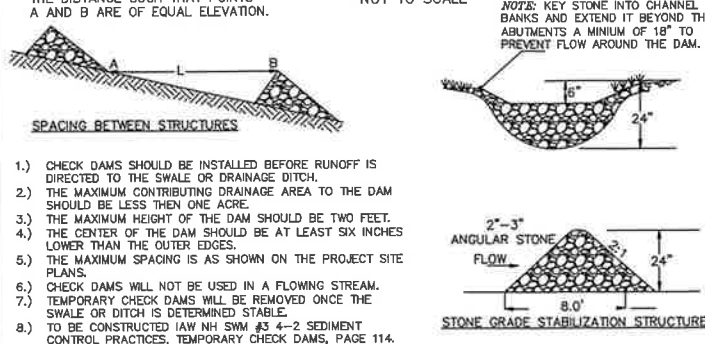
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES AND FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP MID AND BOTTOM SECTIONS AND BE EMBEDDED INTO GROUND A MINIMUM OF 8" THE FENCE POSTS SHALL BE A MINIMUM 48" LONG, SPACED A MAXIMUM 10' APART, AND DRIVEN A MINIMUM OF 18" INTO THE GROUND.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE AND PROPERLY DISPOSED OF. SEE MAINTENANCE NOTE BELOW.
4. REMOVAL OF SEDIMENT REQUIRED AT A DEPTH OF 6-INCHES.
5. PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.
6. SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER.
7. THE AREA DISTURBED BY THE REMOVAL SHALL BE SMOOTHED AND RE-VEGETATED.
8. TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, SILT FENCE, PAGE 90.
9. SEE DETAIL C4 FOR CONSTRUCTION OF SILT FENCE ALONG PROPERTY LINES.

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.
2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH SIX-INCHES IN DEPTH.
4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

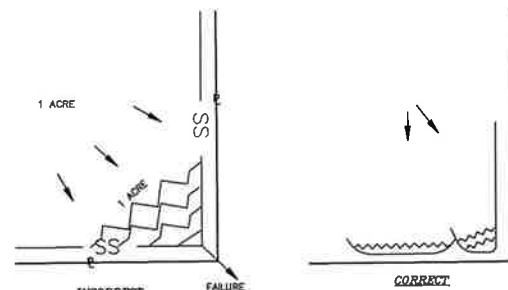
SILT FENCE DETAIL
NOT TO SCALEE4 STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 75 FEET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO 50 FEET IF A 3-INCH TO 6-INCH BERM IS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE.
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 OR 10 FEET, WHICHEVER IS GREATER.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
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.
8. TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, TEMPORARY CONSTRUCTION EXIT, PAGE 124.

STONE CHECK DAM
NOT TO SCALE

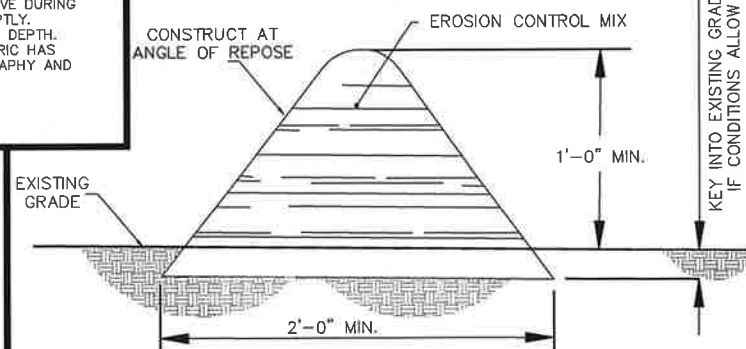
1. CHECK DAMS SHOULD BE INSTALLED BEFORE RUNOFF IS DIRECTED TO THE SWALE OR DRAINAGE DITCH.
2. THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE DAM SHOULD BE LESS THAN ONE ACRE.
3. THE MAXIMUM HEIGHT OF THE DAM SHOULD BE TWO FEET.
4. THE CENTER OF THE DAM SHOULD BE AT LEAST SIX INCHES LOWER THAN THE OUTER 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.
8. TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, TEMPORARY CHECK DAMS, PAGE 114.

E2



NOTES

1. DO NOT LAYOUT PERIMETER CONTROL ALONG SLOPING PROPERTY PERIMETER WITHOUT INSTALLING "J HOOKS" AT HIGH CONCENTRATION AREAS. RUNOFF WILL CONCENTRATE AND CAUSE FAILURES ALONG THE PERIMETER.
2. "J HOOKS" CAN BE USED TO HELP LIMIT THE CONCENTRATION OF RUNOFF AND PROVIDE MORE STABILITY TO THE PERIMETER.
3. SILT FENCE AND EROSION CONTROL MULCH BERM MAY BE USED INTERCHANGEABLY. IN SPECIFIED AREA, SILT FENCE MAY NOT BE SUBSTITUTED FOR FILTREXX SILT SOXX OR APPROVED ALTERNATIVE.
4. SEE HAMPSHIRE STORM WATER MANUAL: VOLUME 3, PAGE 99 FOR FURTHER DETAILS AND SPECIFICATIONS

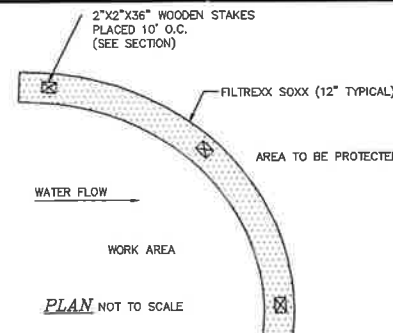
PERIMETER CONTROL
NOT TO SCALEE5 EROSION CONTROL MIX BERM
NOT TO SCALE

EROSION CONTROL MIX BERMS SHALL BE USED ONLY AS FOLLOWS:

1. 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.
2. THE BERMS SHALL BE INSTALLED FOLLOWING THE CONTOUR OF THE LAND AS CLOSELY AS POSSIBLE.
3. THE BERMS SHALL BE INSTALLED ON SLOPES LESS THAN 5%.
4. 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, COMPOSTED BARK, OR EQUIVALENT MANUFACTURED PRODUCTS. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS SHALL NOT BE USED AS ORGANIC MATERIAL.
5. THE MIX SHALL NOT CONTAIN SILTS, CLAY, OR FINE SANDS.
6. 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.
7. THE MIX PH SHALL BE BETWEEN 5.0 AND 6.0.
8. THE BERM SHALL BE AT LEAST 12 INCHES HIGH AND AT LEAST 2 FEET WIDE.
9. TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, EROSION CONTROL MIX BERMS, PAGE 106.

E8

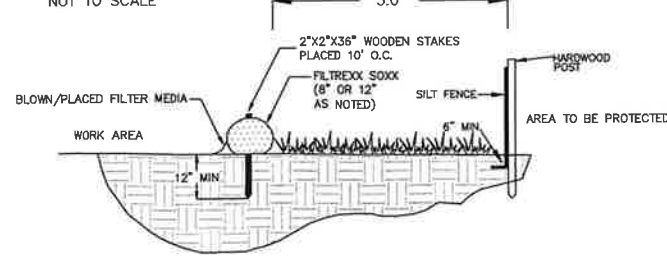
E9



PLAN 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. SILT SOXX MAY BE USED IN PLACE OF SILT FENCE OR OTHER SEDIMENT BARRIERS.
5. SILT SOXX 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.
7. FILTREXX IS NOT A SUBSTITUTION FOR SILT SOXX AND ANY EQUAL SUBSTITUTION TO BE APPROVED.
8. TO BE CONSTRUCTED IAW FILTREXX, SECTION 1: EROSION & SEDIMENT CONTROL (PAGE 323) - CONSTRUCTION ACTIVITIES, SWPPP CUT SHEET: FILTREXX SEDIMENT CONTROL

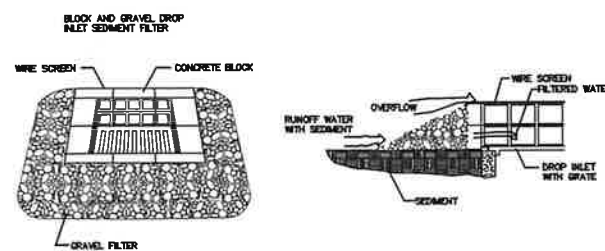
FILTREXX SEDIMENT CONTROL
NOT TO SCALE

Filtrex International, LLC
35481 Grafton Eastern Rd | Grafton, Oh 44044
440-926-2607 | fax: 440-926-4021
www.filtrex.com
OR APPROVED EQUAL

NOTE: FOR AREAS REQUIRING DOUBLE PERIMETER CONTROL WITHIN 50' OF JURISDICTIONAL WETLANDS AND NOT FOR ALL SILT SOXX APPLICATIONS. THIS DUPLICATION MAY BE SPECIFIED AS 12" SILT SOXX OR ORANGE CONSTRUCTION FENCE AS NOTED.

SECTION NOT TO SCALE

E6



MAINTENANCE

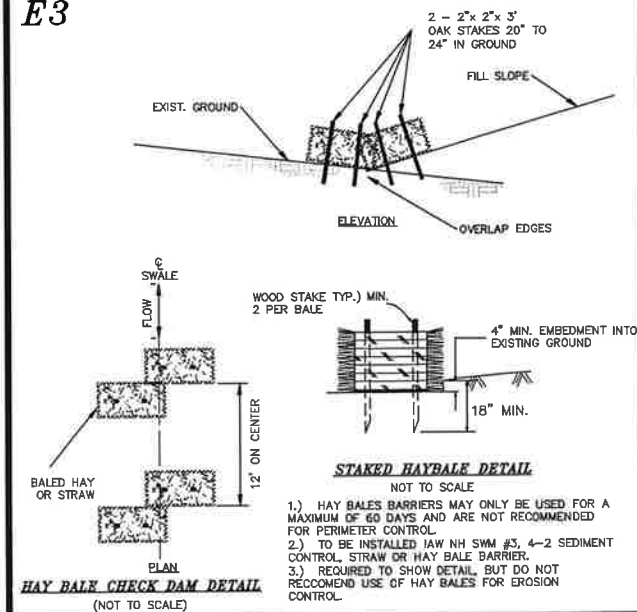
ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAIN STORM AND REPAIRS MADE AS NECESSARY. SEDIMENT SHOULD BE REMOVED FROM TRAPPING DEVICES AFTER THE SEDIMENT HAS REACHED A MAXIMUM OF ONE HALF THE DEPTH OF THE TRAP. THE SEDIMENT SHOULD BE DISPOSED OF IN A SUITABLE AREA AND PROTECTED FROM EROSION BY EITHER STRUCTURE OR VEGETATIVE MEANS. THE TEMPORARY TRAPS SHOULD BE REMOVED AND THE AREA REPAIRED AS SOON AS THE CONTRIBUTING DRAINAGE AREA TO THE INLET HAS BEEN COMPLETELY STABILIZED.

BLOCK & GRAVEL DROP INLET SEDIMENT FILTER
NOT TO SCALE

TO BE USED IN ALL AREAS WHERE THERE WILL BE NO TRAFFIC.

TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, TEMPORARY STORM DRAIN INLET PROTECTION, PAGE 116.

E3

HAY BALE CHECK DAM DETAIL
(NOT TO SCALE)

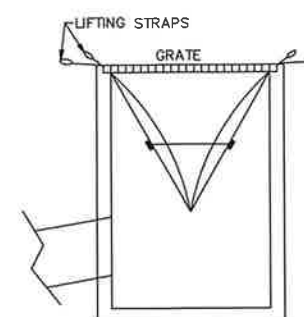
- 1.) HAY BALES BARRIERS MAY ONLY BE USED FOR A MAXIMUM OF 60 DAYS AND ARE NOT RECOMMENDED FOR PERIMETER CONTROL.
- 2.) TO BE INSTALLED IAW NH SWM #3, 4-2 SEDIMENT CONTROL, STRAW OR HAY BALE BARRIER.
- 3.) REQUIRED TO SHOW DETAIL, BUT DO NOT RECOMMEND USE OF HAY BALES FOR EROSION CONTROL.

E7 TEMPORARY EROSION CONTROL MEASURES

1. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
2. EROSION, SEDIMENT AND DETENTION 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 LOADED WITH A MINIMUM OF 4" OF LOAM AND SEEDING WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA. (SEE SEED SPECIFICATIONS THIS SHEET)
4. ALL DISTURBED AREAS WILL BE RESTABILIZED WITHIN 45 DAYS. AT ANY ONE TIME, NO MORE THAN 5 ACRES, (217,800 Sq. Ft.) WILL BE DISTURBED.
5. SILT FENCES AND PERIMETER 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.
6. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED.
7. PER THE EPA COP REQUIREMENTS THERE WILL BE REPORTS OF THE EROSION CONTROL INSPECTIONS IAW SWPPP PREPARED BY BS&E. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER 0.5" OR GREATER RAIN EVENT.
8. DITCHES, SWALES, AND BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
9. DO NOT TRAFFIC EXPOSED SOIL SURFACES WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION SYSTEM.
10. ALL PAVED AREAS AND CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINAL GRADE.
11. STABILIZATION MEANS:
 - 11.1. A MINIMUM OF 85% OF VEGETATIVE COVER HAS BEEN ESTABLISHED.
 - 11.2. A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED, OR
 - 11.3. EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.
 - 11.4. INSTALLATION OF BASE COURSE GRAVEL.
12. 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.
13. THE NHDES STORMWATER MANUAL, IN THREE VOLUMES, DATED DECEMBER 2008, IS A PART OF THIS PLAN SET AND THE MORE RESTRICTIVE WILL GOVERN. (NH SWM)

E10

E11

SILTSACK DETAIL
NOT TO SCALE

1. RECOMMENDED MAINTENANCE SCHEDULE
 - EACH SILTSACK SHOULD BE INSPECTED AFTER EVERY MAJOR RAIN EVENT, AND MUST BE MAINTAINED.
 - IF THERE HAVE BEEN NO MAJOR EVENTS, SILTSACK SHOULD BE INSPECTED EVERY 2-3 WEEKS.
 - THE RESTRAINT CORD SHOULD BE VISIBLE AT ALL TIMES. IF CORD IS COVERED WITH SEDIMENT, THE SILTSACK SHOULD BE EMPTIED.
 - TO BE USED IN ALL AREAS WHERE THERE WILL BE TRAFFIC.
 - ARE SUBJECT TO DAMAGE BY SNOW PLOWS, AND MUST BE INSPECTED AFTER ANY SNOW EVENT AND REPLACED AS REQUIRED.
2. TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, TEMPORARY STORM DRAIN INLET PROTECTION, PAGE 116.

REVISION	DATE	DESCRIPTION
07-30-2018		SUBMITTED FOR CONSTRUCTION
06-18-2018		REVISED PER AOT COMMENT
05-24-2018		NHDES WWEB RESPONSE
05-02-2018		AOT REVISIONS
04-11-2018		REVISIONS
03-30-2018		GENERAL PLAN SET

REVISION	DATE	DESCRIPTION
07-30-2018		SUBMITTED FOR CONSTRUCTION
06-18-2018		REVISED PER AOT COMMENT
05-24-2018		NHDES WWEB RESPONSE
05-02-2018		AOT REVISIONS
04-11-2018		REVISIONS
03-30-2018		GENERAL PLAN SET

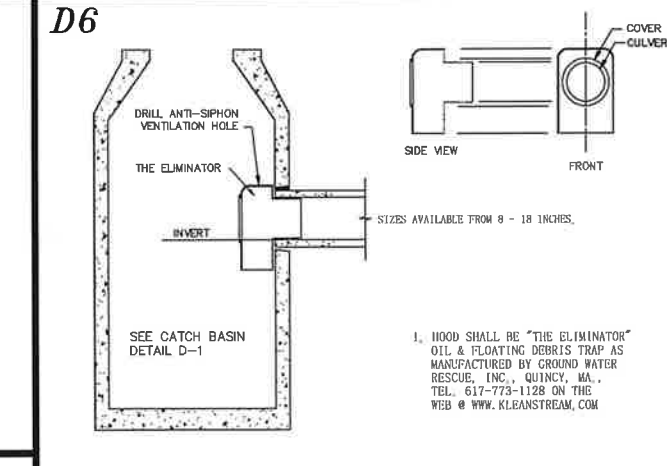
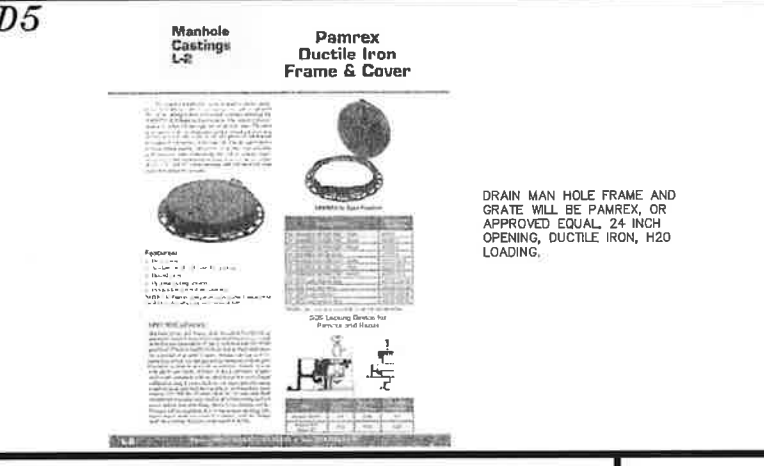
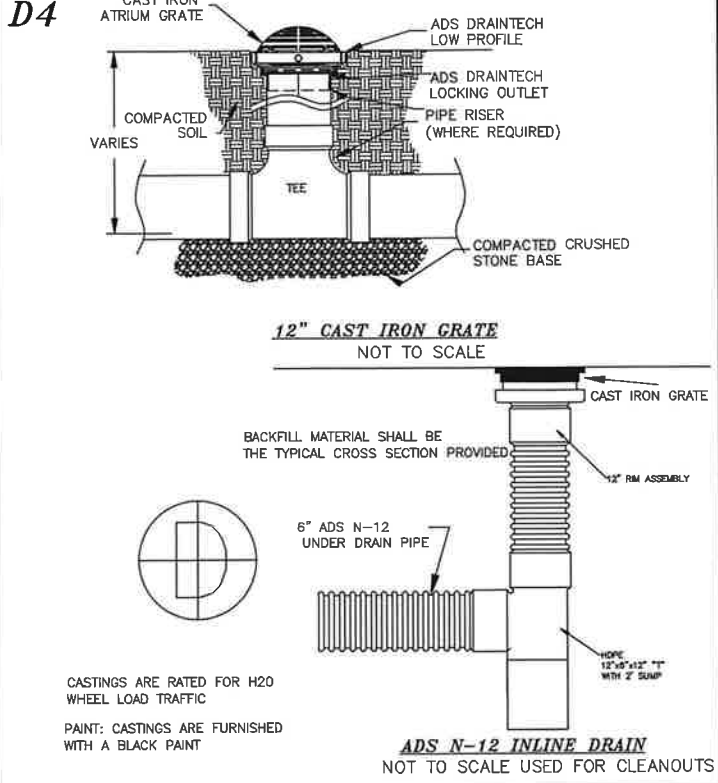
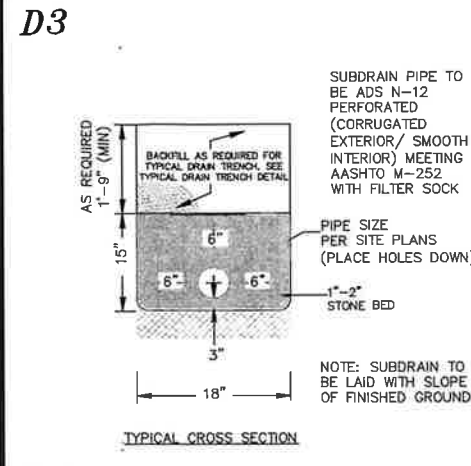
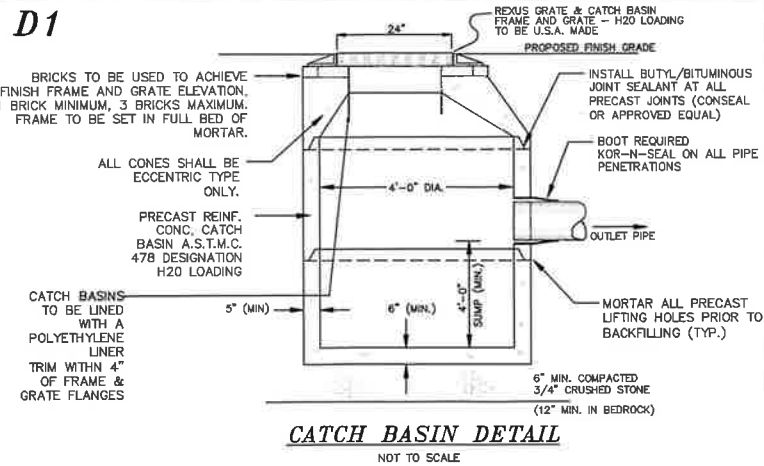
REVISION	DATE	DESCRIPTION
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06-18-2018		REVISED PER AOT COMMENT
05-24-2018		NHDES WWEB RESPONSE
05-02-2018		AOT REVISIONS
04-11-2018		REVISIONS
03-30-2018		GENERAL PLAN SET

REVISION	DATE	DESCRIPTION
07-30-2018		SUBMITTED FOR CONSTRUCTION
06-18-2018		REVISED PER AOT COMMENT
05-24-2018		NHDES WWEB RESPONSE
05-02-2018		AOT REVISIONS
04-11-2018		REVISIONS
03-30-2018		GENERAL PLAN SET

REVISION	DATE	DESCRIPTION
07-30-2018		SUBMITTED FOR CONSTRUCTION
06-18-2018		REVISED PER AOT COMMENT
05-24-2018		NHDES WWEB RESPONSE
05-02-2018		AOT REVISIONS
04-11-2018		REVISIONS
03-30-2018		GENERAL PLAN SET

E-101

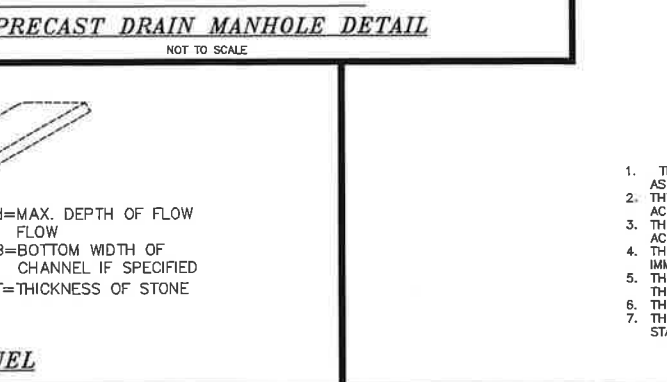
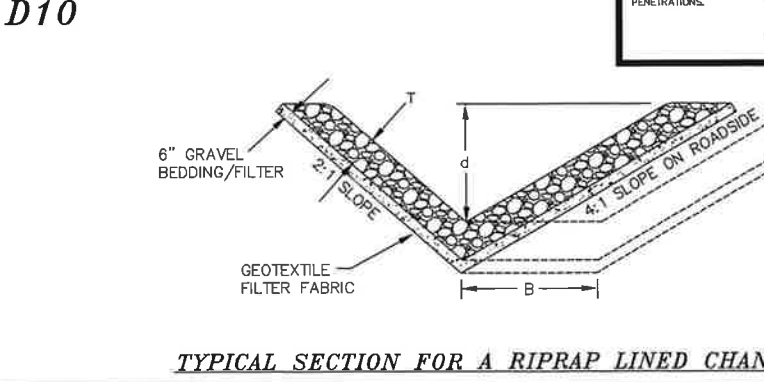
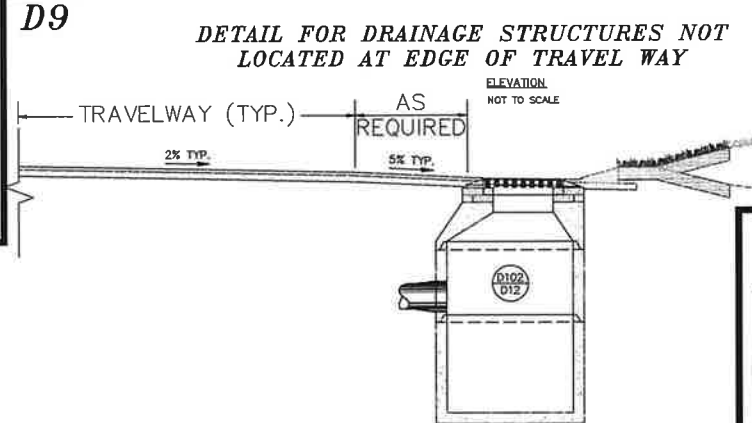
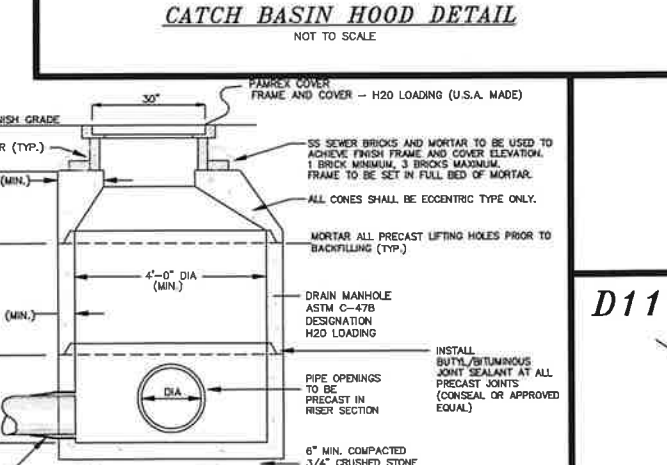
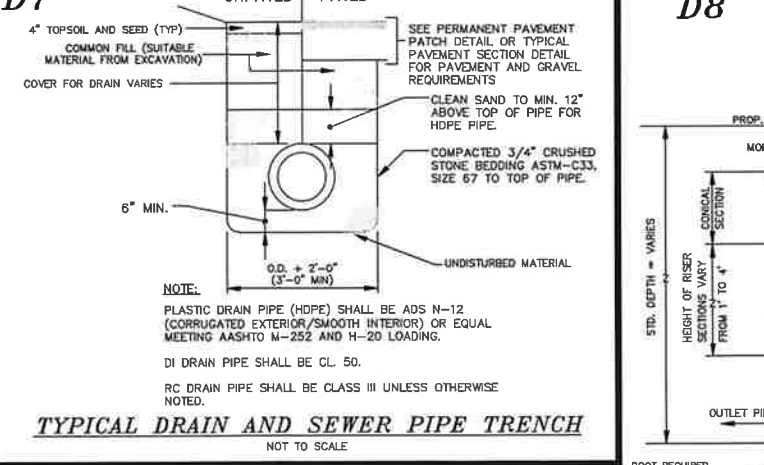
SHEET 66 OF 76



NOTES:

1. CROWN OF 6" SUBDRAIN PIPES TO MATCH CROWN OF DRAIN PIPES IN CATCH BASINS
2. SUBDRAIN TO BE INSTALLED AS INDICATED ON THE DRAWINGS AND AS DIRECTED BY THE ENGINEER.
3. SHORING AND STABILIZING OF TRENCH SIDEWALLS DURING EXCAVATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY TRENCH EXCAVATION BEYOND THE LIMITS OF PAY EXCAVATION INDICATED.

SUBDRAIN DETAIL TYPICAL
NOT TO SCALE



1-800-639-2199 Fax (603) 224-2927

Available Top Slabs

Dim	Wt	Weight
12"	1,600 Lbs	
18"	1,400 Lbs	
24"	2,000 Lbs	
30"	2,500 Lbs	
36"	3,000 Lbs	

36" Drop Inlet Riser

36" Drop Inlet Base

30" Diameter Area Drains

77 Regional Drive Concord, NH 03301

REVISION	DATE	DESCRIPTION
07-30-2018		SUBMITTED FOR CONSTRUCTION
06-18-2018		REVISED PER AOT COMMENT
05-24-2018		MADE WEB RESPONSE
05-02-2018		ADDITIONAL REVISIONS
04-22-2018		GENERAL PLAN SET
04-03-2018		GENERAL PLAN SET
03-30-2018		GENERAL PLAN SET

DRAINAGE CONSTRUCTION DETAILS

MANHOLE CASTINGS

CRC FOR

HALF PEAK HOLDINGS

ROCHESTER, NH 03867

74.1 MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING

335 SECOND CROWN POINT ROAD

BARRINGTON, NH 03825 (603) 332-2863

SCALE: NONE

DATE: JANUARY 22, 2018

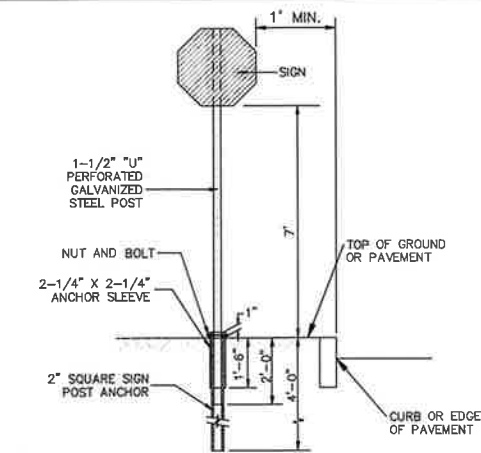
FILE NO.: DB 2017 - 167

STATE OF NEW HAMPSHIRE

KENNETH A. BERRY

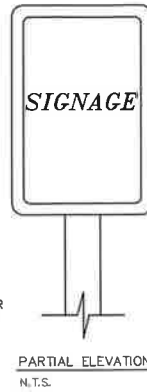
REGISTERED PROFESSIONAL ENGINEER

NO. 14743

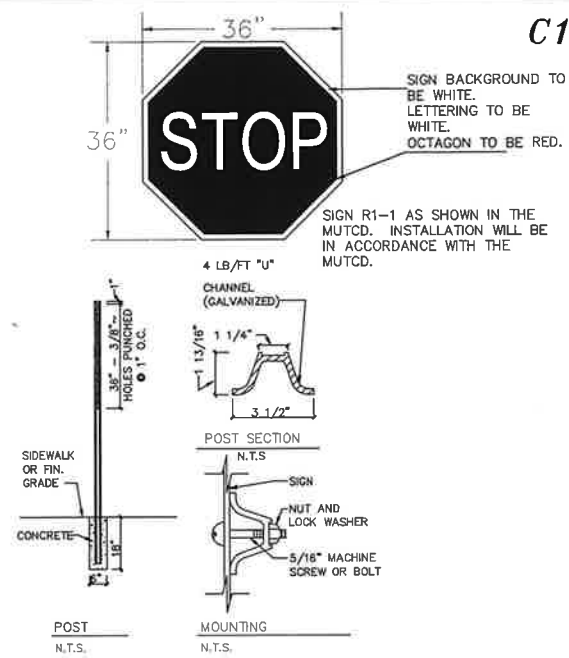


- NOTES:
1. ALL SIGNAGE SHALL BE TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND NHDOT STANDARDS.
 2. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS/CATALOG CUTS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ERECTING SIGNS.
 3. THE LOCATION OF THE SIGNS SHALL BE AS INDICATED ON THE DRAWINGS AND/OR AS DIRECTED BY THE CITY OF ROCHESTER DEPARTMENT OF PUBLIC WORKS.

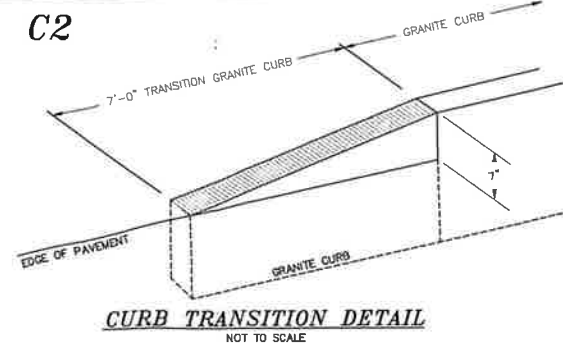
TYPICAL SIGN POST
(NOT TO SCALE)



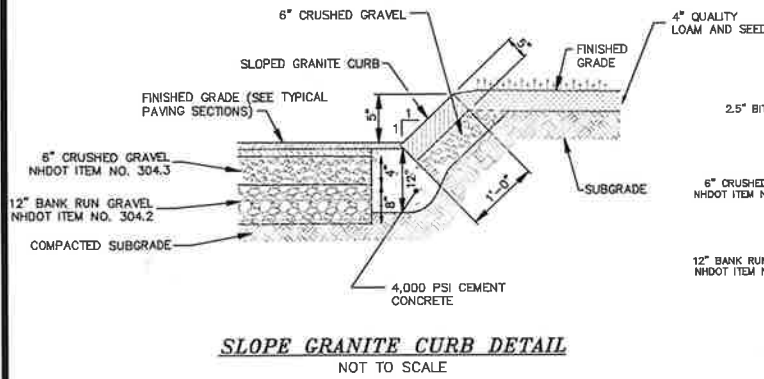
PARTIAL ELEVATION
N.T.S.



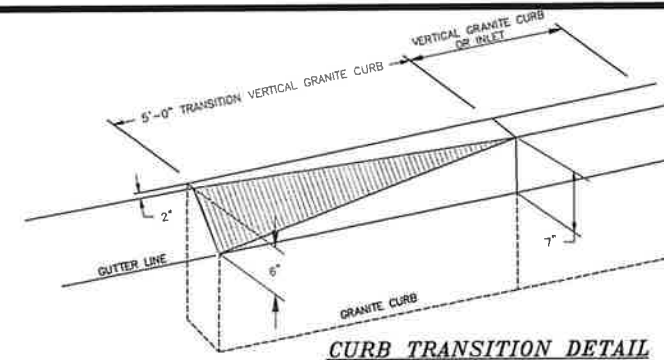
C1



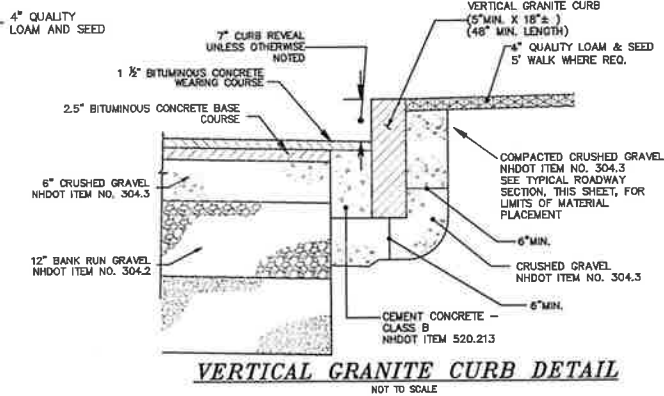
CURB TRANSITION DETAIL
NOT TO SCALE



SLOPE GRANITE CURB DETAIL
NOT TO SCALE

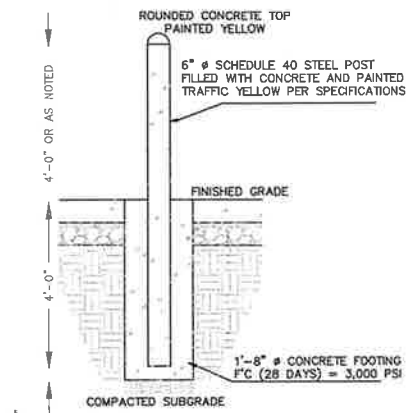


CURB TRANSITION DETAIL
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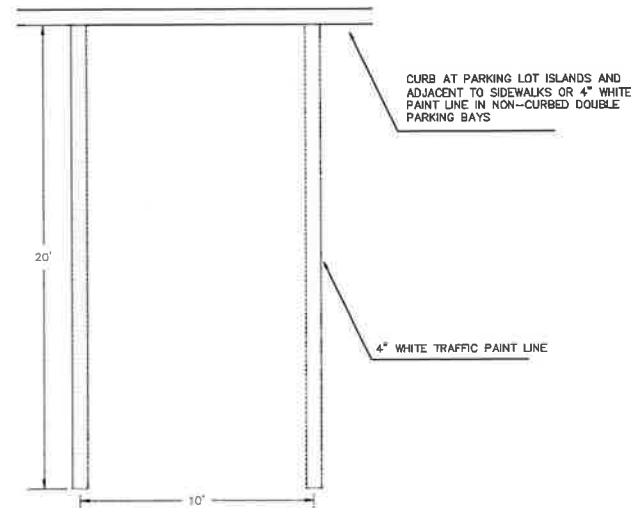
VERTICAL GRANITE CURB DETAIL
NOT TO SCALE

C3



BOLLARD DETAIL
NOT TO SCALE

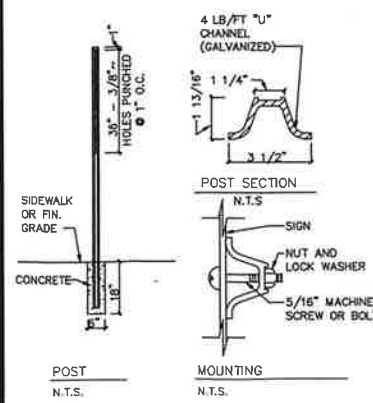
C4



- 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

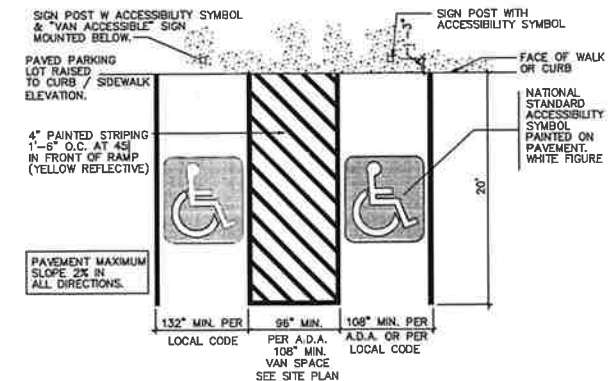
PARKING SPACE DETAIL
NOT TO SCALE

C19



PARTIAL ELEVATION
N.T.S.

PARKING STALL SIGNAGE FOR THE PHYSICALLY CHALLENGED
NOT TO SCALE



REVISION	DATE	DESCRIPTION
07-30-2018	07-30-2018	SUBMITTED FOR CONSTRUCTION
08-18-2018	08-18-2018	REVISED PER ACT COMMENT
09-24-2018	09-24-2018	NHDES WEB RESPONSE
09-24-2018	09-24-2018	AOT REVISIONS
04-11-2018	04-11-2018	REVISIONS
03-30-2018	03-30-2018	GENERAL PLAN SET

CONSTRUCTION DETAILS	LAND OF
CRG FUTURE CORP.	CRG FUTURE CORP.
HALF PEAK HOLDINGS	HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE	GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867	ROCHESTER, NH 03867
74X MAP 261, LOT 120 & 121	74X MAP 261, LOT 120 & 121

BERRY SURVEYING & ENGINEERING	335 SECOND CROWN POINT ROAD	BARRINGTON, NH 03825 (603)332-2863
DATE : JANUARY 22, 2018	FILE NO. : DB 2017 - 167	

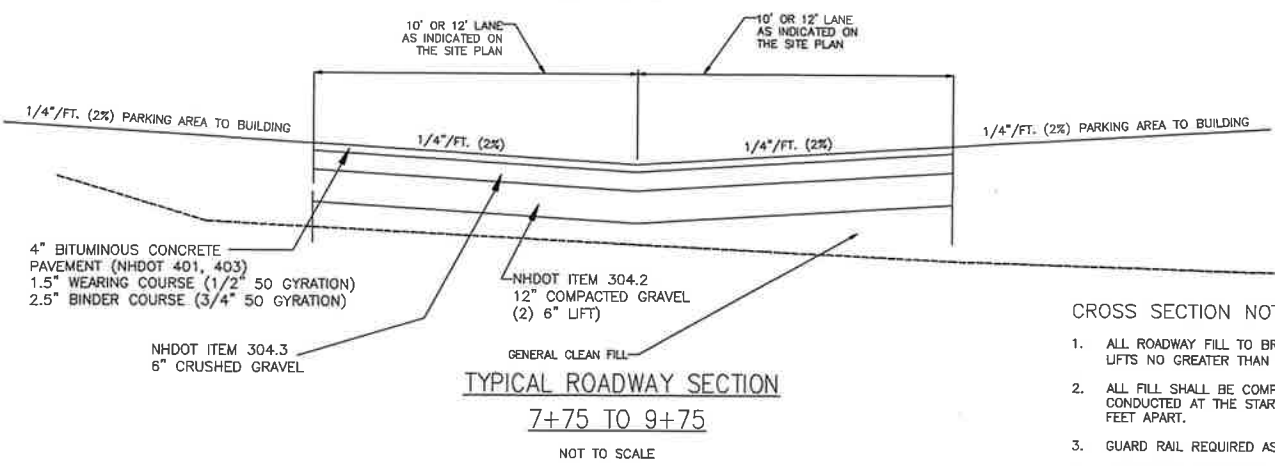


C-101

C9



NOTE 3



1. ALL ROADWAY FILL TO BRING ROAD TO SUBGRADE SHALL BE INSTALLED IN LIFTS NO GREATER THAN 12".
2. ALL FILL SHALL BE COMPACTED TO 95% MINIMUM. COMPACTION TESTS TO BE CONDUCTED AT THE START OF THE PROJECT AND NO FURTHER THAN 100 FEET APART.
3. GUARD RAIL REQUIRED AS NOTED ON SITE PLANS.
4. COMPACTED SUBGRADE - CONTRACTOR SHALL SCARIFY SUBGRADE TO A DEPTH OF 30 INCHES BELOW F-GRADE. ALL STONES GREATER THAN 6" IN DIAMETER SHALL BE REMOVED FROM THE SCARIFIED LAYER. ANY IMPORTED FILL SHALL BE FREE OF ORGANICS AND FROST AND SHALL HAVE NO ROCKS LARGER THAN 6" IN DIAMETER. FILL MATERIAL SHALL BE APPROVED BY THE CITY'S AGENT AND/OR THE CITY'S ENGINEER.

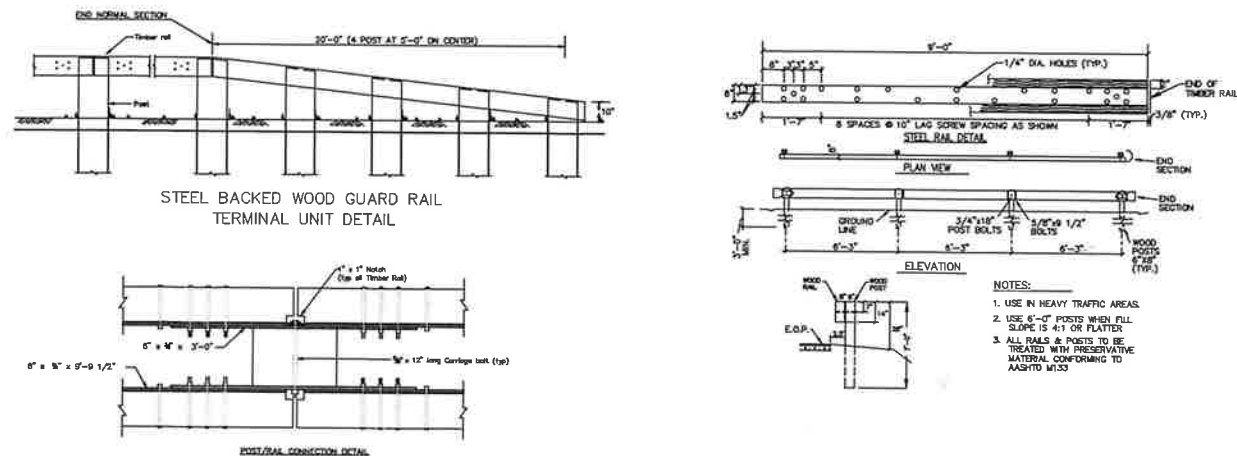


BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603) 332-2863

DATE : JANUARY 22, 2018

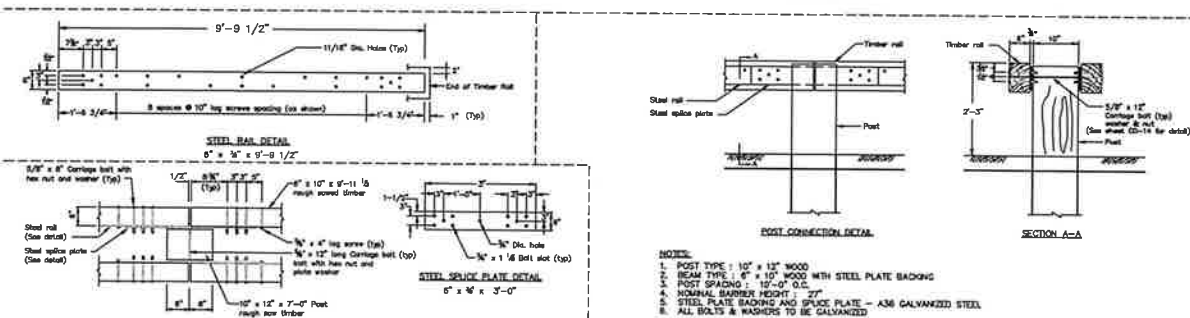
SHEET 70 OF 76

C11

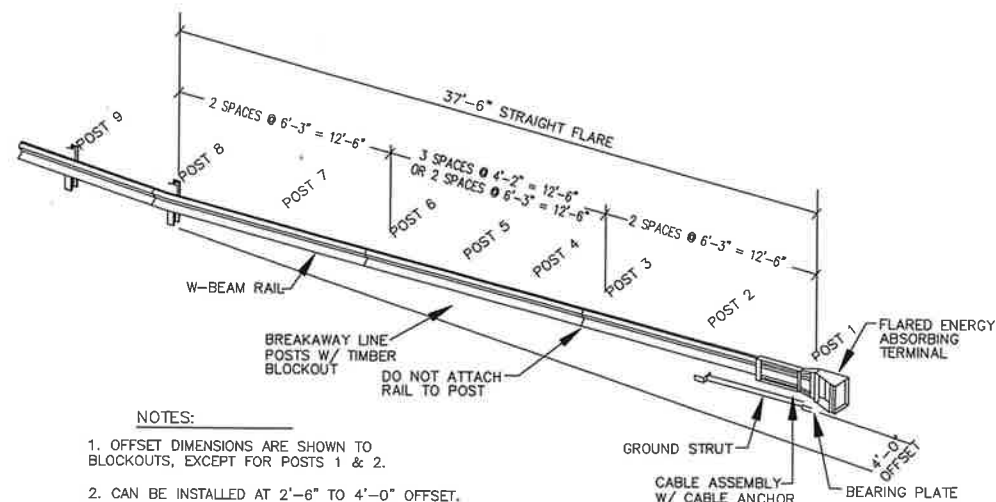


GUARD RAIL (STEEL BACKED WOODEN RAIL)

NOT TO SCALE



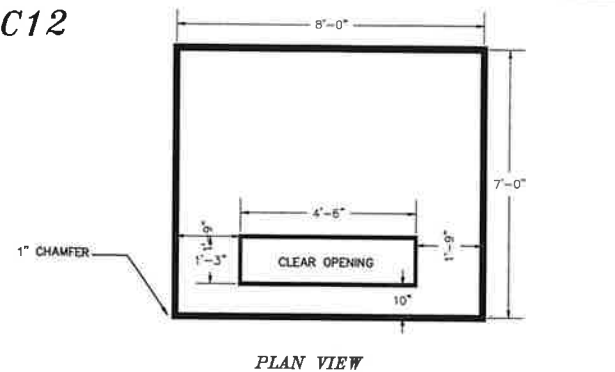
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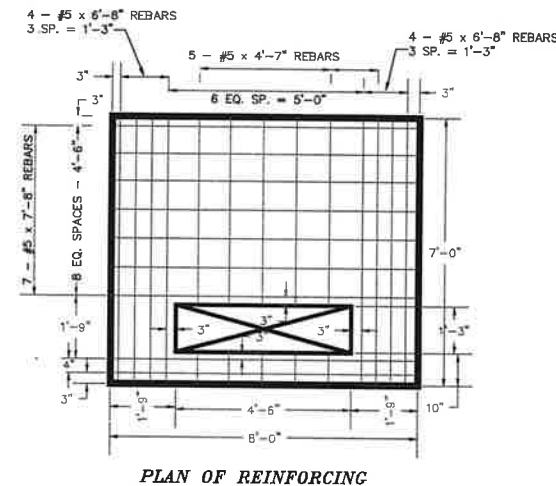
NHDOT GUARD RAIL DETAIL

NOT TO SCALE

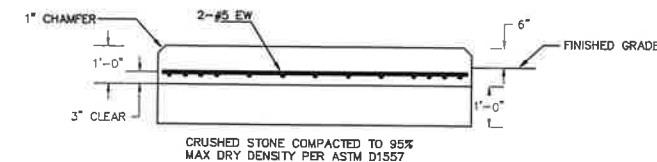
C12



PLAN VIEW



PLAN OF REINFORCING



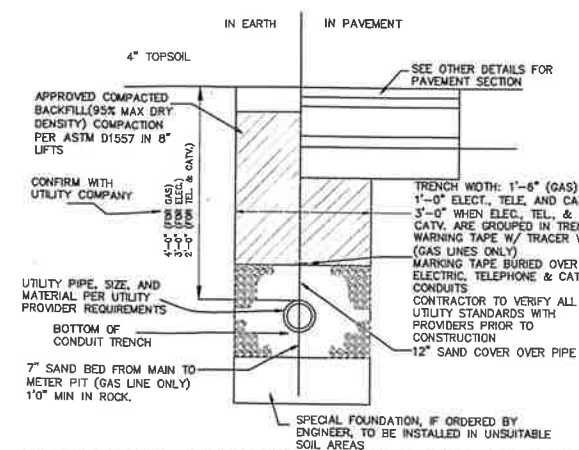
SECTION VIEW

- NOTES:
- 1.) CONFIRM SIZE WITH ELECTRIC COMPANY BEFORE CONSTRUCTION.
 - 2.) USE LOCAL ELECTRIC COMPANY DETAILS AS REQUIRED.

TRANSFORMER PAD DETAIL

NOT TO SCALE

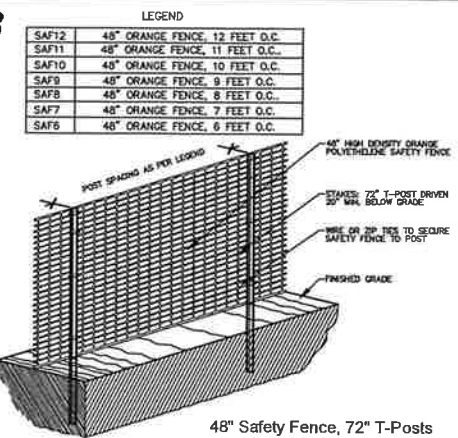
C15



ELECTRICAL, TELEPHONE, AND GAS TRENCH

NOT TO SCALE

C13



48" Safety Fence, 72" T-Posts

- NOTES:
1. ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.
 2. ALL TREES IN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED AND PROTECTED WITH HIGH VISIBILITY FENCE AS PER PLAN.
 3. WHEN PRACTICABLE, INSTALL HIGH VISIBILITY 2 FEET OUTSIDE OF THE DUMP LINE OF THE TREE.
 4. SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS.
 5. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION, ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.

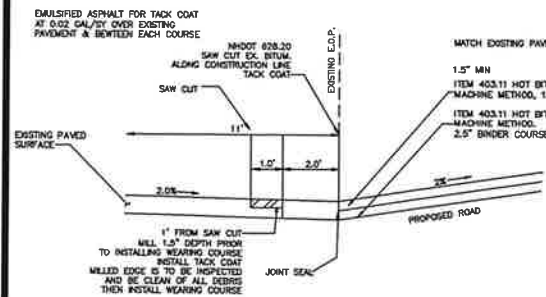
CONSTRUCTION SAFETY FENCE

NOT TO SCALE

REVISION	DATE	DESCRIPTION
#1	07-30-2018	SUBMITTED FOR CONSTRUCTION
#2	08-18-2018	REVISED PER AOT COMMENT
#3	05-24-2018	NHDES WHEB RESPONSE
#4	05-02-2018	AOT REVISIONS
#5	04-11-2018	SEWER & WATER REVISIONS
#6	03-29-2018	GENERAL PLAN SET
#7	03-29-2018	GENERAL PLAN SET

CONSTRUCTION DETAILS
LAND OF
CRC FUTURE CORP.
FOR
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 201, LOT 120 & 121

C16



TYPICAL EDGE LINE CONSTRUCTION

NOT TO SCALE

C-103

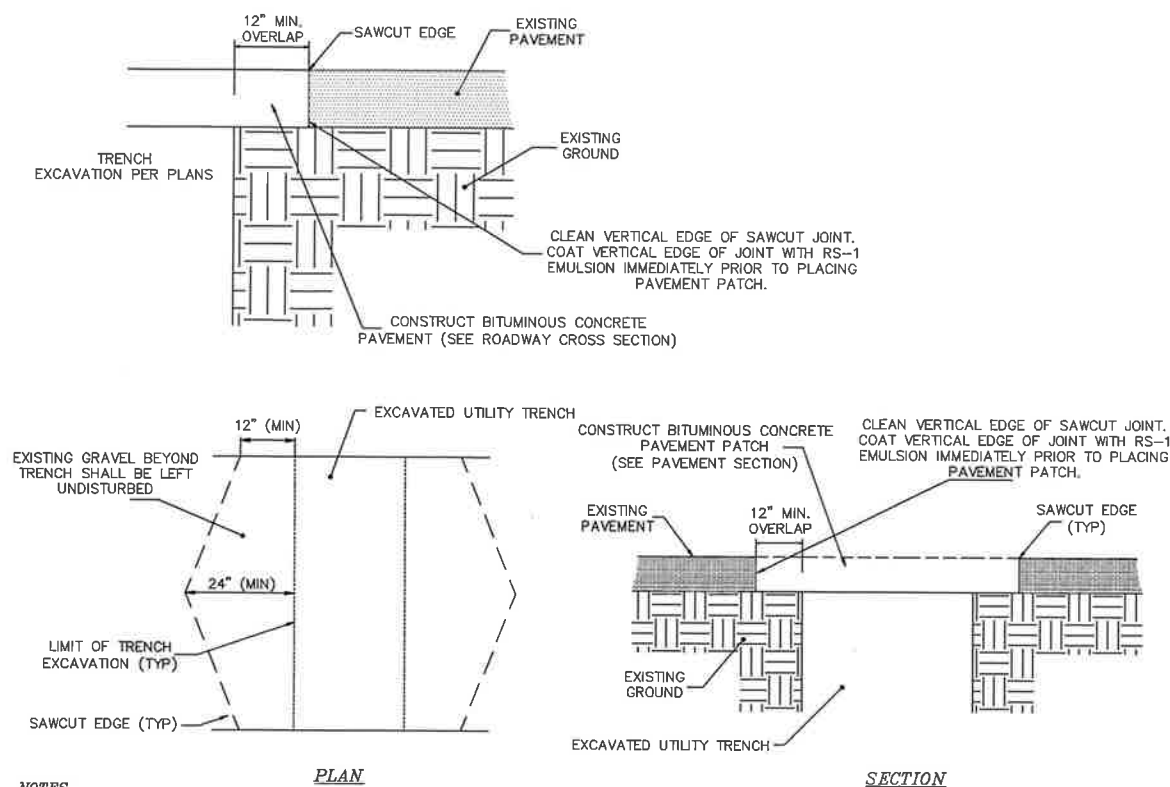
SHEET 71 OF 76

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14723
LICENSED PROFESSIONAL ENGINEER

C17

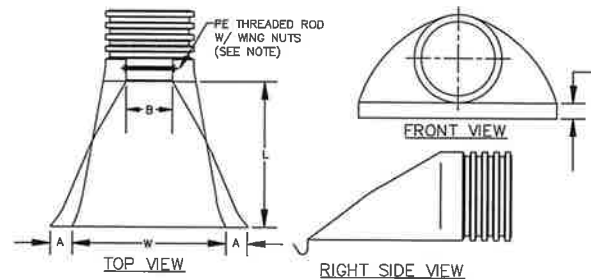


NOTES

1. MACHINE CUT EXISTING PAVEMENT.
2. ALL TEMPORARY, DAMAGED, OR DEFECTIVE PAVEMENT SHALL BE REMOVED PRIOR TO PLACEMENT OF PERMANENT TRENCH REPAIRS.
3. DIAMOND PATCHES, SHALL BE REQUIRED FOR ALL TRENCHES CROSSING ROADWAY. DIAMOND PATCHES SHALL MEET NHDOT REQUIREMENTS.

TYPICAL TRENCH PATCH
NOT TO SCALE

C19



PART No.	PIPE SIZE	A	B(MAX)	H	L	W
1510-NP	15" 375 mm	6.5" 165 mm	10" 254 mm	6.5" 165 mm	25" 635 mm	29" 735 mm
1810-NP	18" 450 mm	7.5" 190 mm	15" 380 mm	6.5" 165 mm	32" 812 mm	35" 890 mm
2410-NP	24" 600 mm	7.5" 190 mm	18" 450 mm	6.5" 165 mm	36" 900 mm	45" 1140 mm
3010-NP	30" 750 mm	10.5" 266 mm	N/A	7.0" 178 mm	53" 1345 mm	68" 1725 mm
3610-NP	36" 900 mm	10.5" 266 mm	N/A	7.0" 178 mm	53" 1345 mm	68" 1725 mm

NOTE: PE THREADED ROD W/ WING NUTS PROVIDED FOR END SECTIONS 15"-24".
30" & 36" END SECTIONS TO BE WELDED PER MANUFACTURER'S
RECOMMENDATIONS.

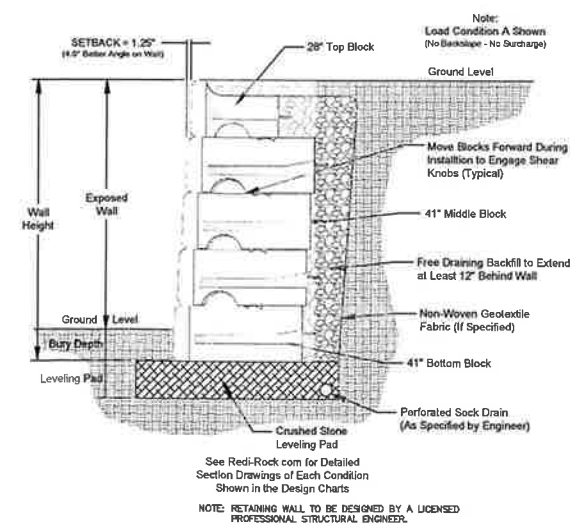
ADS N-12 FLARED END SECTIONS
NOT TO SCALE (ALL DIMENSIONS ARE NOMINAL)

C18

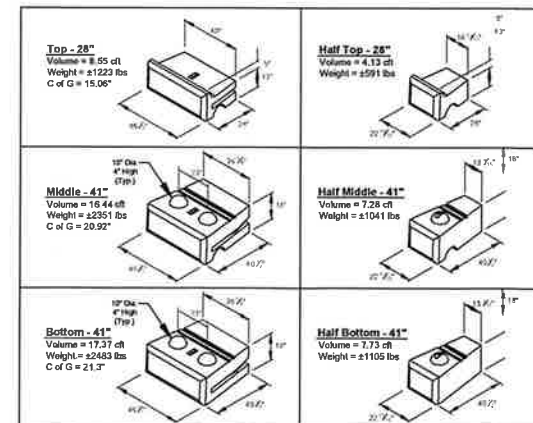
NOTES:

- 1.) THE PROPOSED APPLICATION FOR THIS LOCK BLOCK OR EQUAL (AS DETERMINED BY THE DESIGN ENGINEER WITH APPROVAL BY DEPARTMENT OF PUBLIC WORKS (BS&E 503-332-2863) (DPW 603-335-7575) IS FOR A WALL THAT RANGES IN HEIGHT. INDIVIDUAL WALLS TO BE DESIGNED BY A STRUCTURAL / GEOTECHNICAL ENGINEER PRIOR TO ORDERING AND INSTALLATION.
- 2.) USE THE 41" BOTTOM BLOCK TO INSTALL THE FIRST COURSE. NOTE EMBEDMENT REQUIREMENT. COURSE DEPTH IS 1.5'
- 3.) USE 41" MIDDLE BLOCK FOR MIDDLE ROWS, APPROXIMATELY 7 COURSES DEPENDING ON WALL HEIGHT.
- 4.) USE 41" TOP BLOCK ALONG TOP OF WALL. NOTE WALL DROPS ARE TO BE FULL BLOCK DEPTHS.
- 5.) USE 41" HALF BLOCKS FOR RADIAL TURNS AND END SECTIONS.
- 6.) THE WALL MANUFACTURER TYPICALLY PROVIDES WALL PROFILE AND BLOCK COUNT TO THE CONTRACTOR AS REQUIRED FOR CONSTRUCTION. THIS IS TO BE REVIEWED BY BOTH DPW AND DESIGN ENGINEER FOR CORRELATION WITH PROJECT SITE PLANS.

**Typical Gravity Wall
with 41" Blocks**
No Scale



41" SERIES BLOCKS



NOTES:
Volume and Center of Gravity (C of G) calculations are based on the blocks as shown.
Center of Gravity is measured from the back of the block.
Half blocks may include a fork lift slot on one side.
Actual weights and volumes may vary.
Weight shown is based on 143 pcf concrete.

Redi-Rock® International, LLC
RETAINING WALL DETAIL

C-104

DESCRIPTION	DATE	BY	REVISION
SUBMITTED FOR CONSTRUCTION			
REVISED PER AOT COMMENT			
NHDES WEB RESPONSE			
AOT REVISIONS			
SEWER & WATER REVISIONS			
GENERAL PLAN SET			
GENERAL PLAN SET			

REVISION	DATE
#7	07-30-2018
#6a	06-18-2018
#5b	05-24-2018
#4	05-02-2018
#3	04-11-2018
#2	04-09-2018
#1	03-30-2018

REVISION

REVISION	DATE	DESCRIPTION
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NHDOT PAVEMENT MARKING DETAILS

LAND OF
CRG FUTURE CORP.

HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

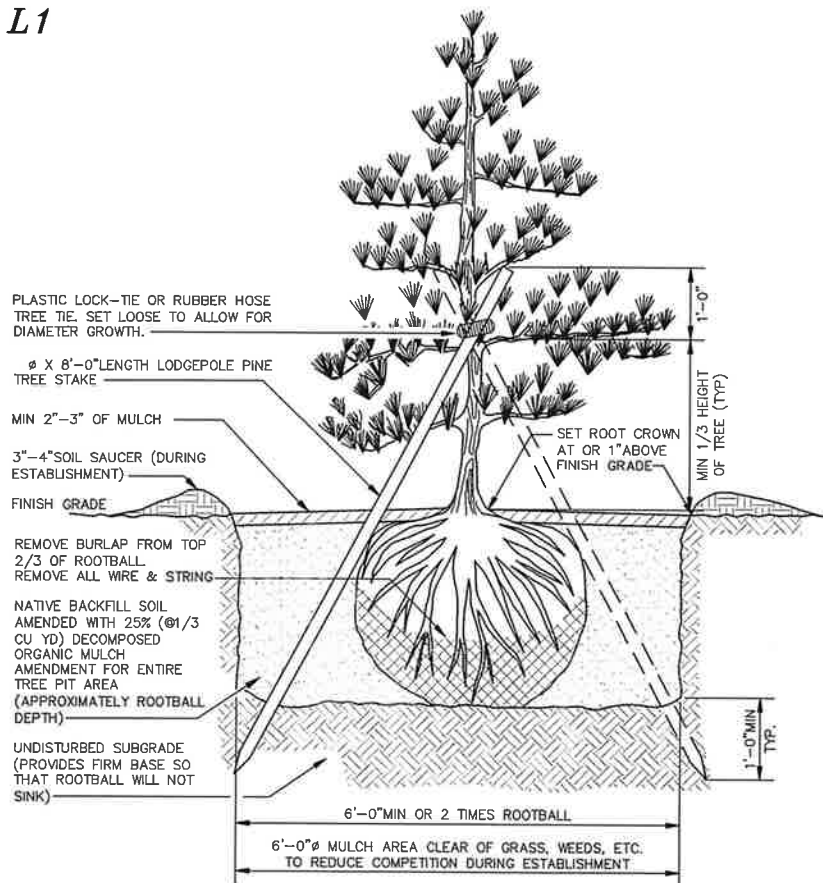
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

DATE :	JANUARY 22, 2018
FILE NO. :	DB 2017 - 167

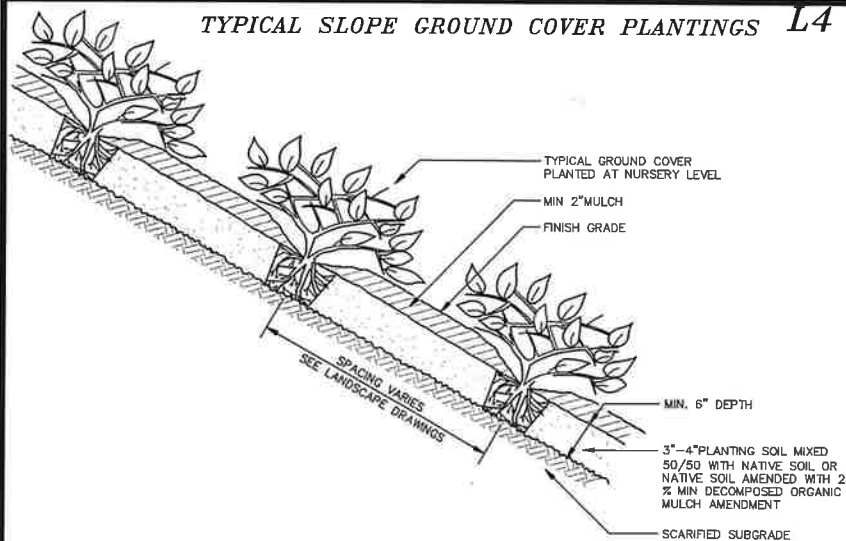


SHEET 72 OF 76

L1

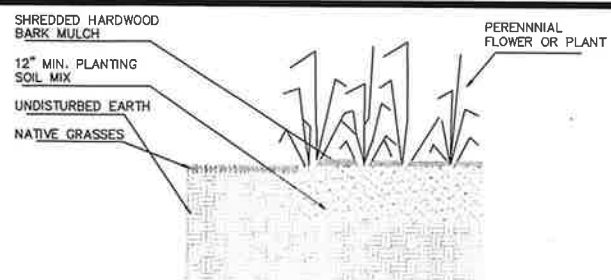


CONIFEROUS TREE PLANTING



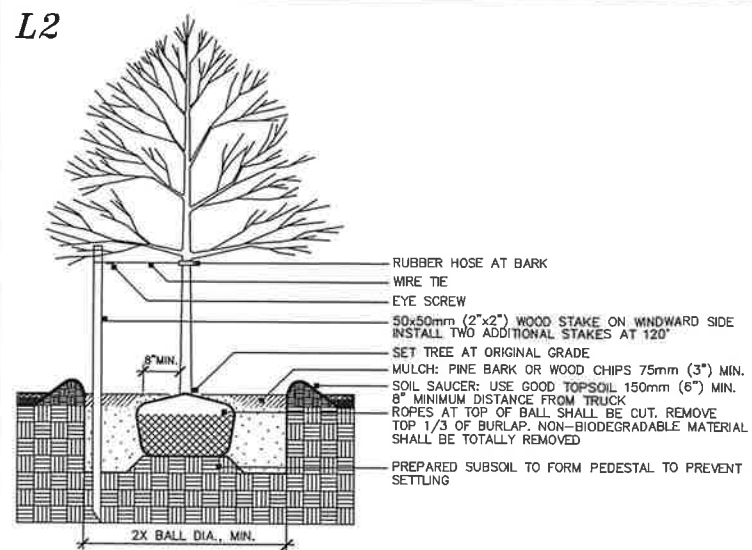
PERENNIAL PLANTING DETAIL

L8



PERENNIAL PLANTING DETAIL

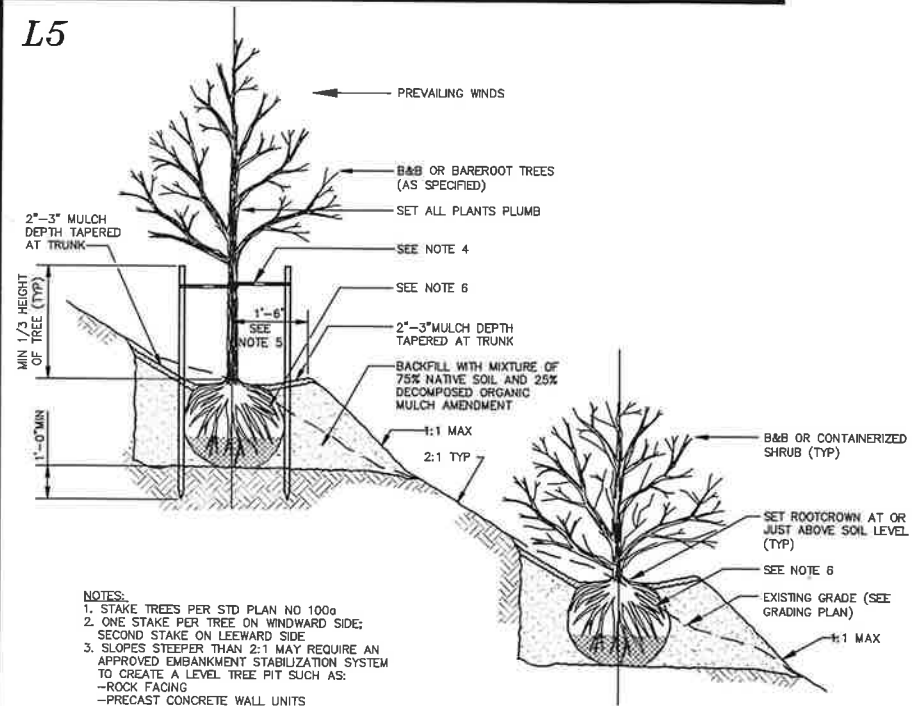
L2



DECIDUOUS TREE PLANTING

NOTE: STAKING TO BE USED IN PARKING ISLANDS AND OTHER CONFINED AREAS AS NECESSARY TO AVOID CONFLICTS WITH PEDESTRIANS

L5

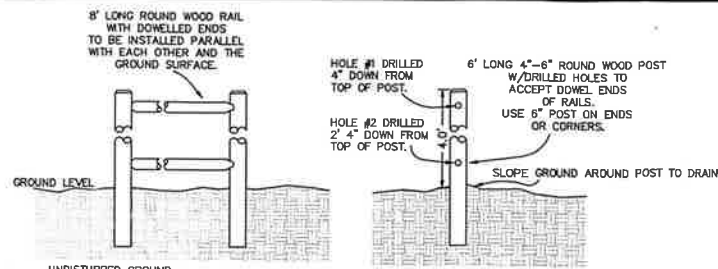


TREE PLANTING ON SLOPES

NOTES:

1. STAKE TREES PER STD PLAN NO 100a
2. ONE STAKE PER TREE ON WINDWARD SIDE;
SECOND STAKE ON LEeward SIDE
3. STAKE 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. CHAIN/LOOP TREE TIE. LOOP EACH SIDE AROUND
TREE LOOSELY TO PROVIDE "1" SLACK FOR
DIAMETER GROWTH.
5. SHAPE SOIL TO PROVIDE 3' DIAMETER OR
ROOTBALL DIAMETER, WHICHEVER IS GREATER,
WINDING
6. REMOVE ALL WIRE AND STRING. REMOVE TOP
2/3 OF BURLAP.

L7



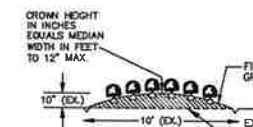
TYPICAL POST & RAIL FENCE DETAIL

N.T.S.

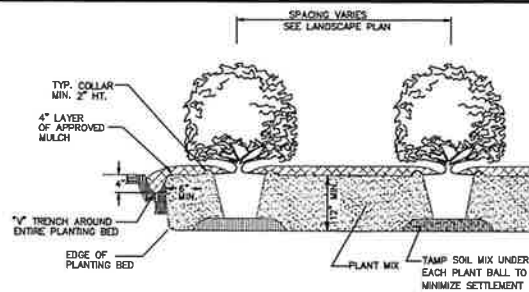
L3

NOTES:

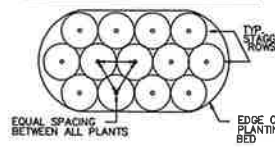
1. SCARIFY ROOT MASS OF CONTAINERIZED PLANT MATERIAL.
2. INSTALL CONTAINERIZED PLANTS AT FINISHED GRADE
3. TAMP PLANTING MIX FIRMLY AS PIT IS FILLED AROUND EACH PLANT BALL
4. OMIT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYSTEM IS PRESENT.
5. SOAK EACH PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION.



TYPICAL BED CROWNING



TYPICAL PLANTING BED DETAIL



TYPICAL PLANTING BED PLAN

SHRUB & HEDGE PLANTING

L6

NOTES:

- 1.) CALL DIG SAFE PRIOR TO BEGINNING WORK. (1-888-344-7233). THE LANDSCAPE CONTRACTOR IS ADVISED OF THE PRESENCE OF UNDERGROUND UTILITIES AND SHALL VERIFY THE EXISTENCE AND LOCATION OF THE SAME BEFORE COMMENCING AND DIGGING OPERATIONS. THE LANDSCAPE CONTRACTOR SHALL REPLACE OR REPAIR UTILITIES, PAVING, WALKS, CURBING, ETC DAMAGED IN PERFORMANCE OF THIS JOB AT NO ADDITIONAL COST TO THE OWNER OR GENERAL CONTRACTOR.
- 2.) CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL SITE CONDITIONS PRIOR TO CONSTRUCTION BIDDING. SEE NOTE B ON OVERALL SITE PLAN.
- 3.) PROVIDED SMOOTH TRANSITION WHERE NEW WORK MEETS EXISTING CONDITIONS.
- 4.) ALL PLANT MATERIAL INSTALLED SHALL MEET THE SPECIFICATIONS OF "AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN
- 5.) ALL PLANT MATERIALS SHALL BE FREE FROM INSECTS AND DISEASE.
- 6.) ALL PLANTINGS SHALL BE DONE IN ACCORDANCE WITH ACCEPTABLE HORTICULTURAL PRACTICES. THIS IS TO INCLUDE PROPER PLANTING MIX, PLANT BED AND TREE PIT PREPARATION, PRUNING STAKING OR GUYING, WRAPPING, SPRAYING, FERTILIZATION, PLANTING AND ADEQUATE MAINTENANCE UNTIL ACCEPTANCE FROM OWNER.
- 7.) ALL GRASS, OTHER VEGETATION AND DEBRIS SHALL BE REMOVED FROM ALL PLANTING AREAS PRIOR TO PLANTING.
- 8.) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING AND NEWLY PLANTED TREES AND SHRUBS DURING THE CONSTRUCTION PROCESS. WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL TEMPORARY FENCING (SNOW OR EQUAL) AROUND EXISTING TREES AND SHRUBS THAT COULD BE IMPACTED BY THE CONSTRUCTION PROCESS. STORAGE OF CONSTRUCTION EQUIPMENT, CONSTRUCTION MATERIALS, SNOW STORAGE AND OR VEHICLE PARKING SHALL NOT BE PERMITTED WITHIN THE DRIP LINE OF TREES OR TWENTY FEET WHICH EVER IS GREATER.
- 9.) NEW PLANTINGS SHALL BE INSTALLED PER PROJECT DRAWINGS AND SPECIFICATION THAT INCLUDE FERTILIZATION AND MULCHING AS REQUIRED.
- 10.) ALL SHRUB BEDS AND TREE PITTS SHALL BE MULCHED WITH 3" CLEAN SHREDDED BLACK MULCH
- 11.) WHERE INDICATED ON PLAN, PLANTING SOIL MIXTURE FOR GROUND COVER AND PERENNIAL BED AREAS SHALL CONSIST OF FOUR PARTS TOPSOIL, TWO PARTS SPAGNUM PEAT MOSS, AND ONE PART HORTICULTURAL PERLITE BY VOLUME. PEAT MOSS MAY BE SUBSTITUTED WITH WELL-ROTTED OR DEHYDRATED MANURE OR COMPOST. ROTOTILL BEDS TO A DEPTH OF 8 INCHES.
- 12.) MAINTENANCE OF NEW PLANTINGS AND LAWNS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND OR LANDSCAPE SUBCONTRACTOR UNTIL ACCEPTANCE BY THE OWNER. RESPONSIBILITIES SHALL INCLUDE WATERING WEEDING AND MOWING AS NECESSARY. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. REPLACEMENT MATERIAL SHALL BE GUARANTEED FOR AND ADDITIONAL YEAR FROM TIME OF INSTALLATION.
- 13.) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY EROSION CONTROL MEASURES DURING THE CONSTRUCTION PHASE AND UNTIL ALL AREAS HAVE BEEN STABILIZED AND ACCEPTED BY THE OWNER. THE GENERAL CONTRACTOR SHALL PROVIDE WEEKLY INSPECTIONS OF EROSION MEASURE AND IMMEDIATELY AFTER STORM EVENTS AND REPAIR AS NECESSARY.
- 14.) THE GENERAL CONTRACTOR AND OR THE LANDSCAPE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL THREE GUYING MATERIAL ONCE PLANT MATERIAL HAS BEEN ESTABLISHED. (MINIMUM OF ONE GROWING SEASON). ALL TEMPORARY EROSION CONTROL MEASURE SHALL BE REMOVED ONCE STABILIZATION OF DISTURBANCE HAS BEEN ACCEPTED BY OWNER.
- 15.) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR A MINIMUM OF TWO MOWINGS FOR ALL TURF AREAS OR UNTIL ACCEPTANCE BY THE OWNER. A MINIMUM UNIFORM 75% CATCH OF TURF IS REQUIRED FOR ACCEPTANCE.
- 16.) ALL PLANTINGS SHALL BE WATERED REGULARLY DURING THEIR FIRST YEAR AND MAINTAINED PERMANENTLY IN GOOD GROWING CONDITION AS AN EFFECTIVE VISUAL SCREEN.
- 17.) SHRUBS OR TREES WHICH DIE SHALL BE REPLACED WITHIN ONE GROWING SEASON WITH NEW SHRUBS OR TREES TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE LANDSCAPING REQUIREMENTS.
- 18.) ALL REQUIRED LANDSCAPING SHALL BE INSTALLED BEFORE OCCUPANCY, OR WITHIN SIX MONTHS IF OCCUPANCY OCCURS DURING WINTER CONDITIONS.
- 19.) TREES ARE TO BE 2-2.5" CALIPER.
- 20.) ALL PLANT STOCK SHALL CONFORM TO ANSI Z260.1 - NURSERY STOCK, LATEST EDITIONS (AMERICAN ASSOCIATION OF NURSERYMEN, INC.)
- 21.) 4" AGED PINEBARK MULCH AND A WEED BARRIER (TY-PAK FABRIC OR APPROVED EQUAL) SHALL BE APPLIED TO ALL SHRUB AND GROUND COVER BEDS. INSTALL WEED BARRIER AS PER MANUFACTURERS RECOMMENDATIONS.
- 22.) PLANT-PIT BACK-FILL SHALL BE MIXED AT A RATE OF 7 PARTS OF TOPSOIL, TO 2 PARTS OF DEHYDRATED COW MANURE. SLOW RELEASE FERTILIZER SHALL BE APPLIED AS PER MANUFACTURERS RECOMMENDATIONS. USE EXISTING ON-SITE TOPSOIL AS PART OF BACK FILL WHEN AVAILABLE.
- 23.) ALL LANDSCAPED AREAS NOT PLANTED WITH TREES, SHRUBS OR GROUND COVER SHALL BE RESTORED WITH SEED OR SOD AS INDICATED ON PLANS.
- 24.) THE REQUIRED STREET TREES MUST BE PLANTED BY OCTOBER 15 ON ANY LOT FOR WHICH A CERTIFICATE OF OCCUPANCY HAS BEEN ISSUED ON OR PRIOR TO AUGUST 31 OF THAT SAME YEAR. NO ADDITIONAL CERTIFICATES OF OCCUPANCY WILL BE ISSUED IF THIS REQUIREMENT IS NOT MET.
- 25.) STREET TREES TO BE CHOSEN FROM THE LIST OF APPROVED TREES WITHIN THE CITY OF ROCHESTER AND ARE TO HAVE A MINIMUM OF TWO SPECIES ALTERNATING DOWN THE STREET TO DISCOURAGE A MONO-CULTURE.

REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER AOT COMMENT
#5b	05-24-2018	NHDES WRWB RESPONSE
#5	05-02-2018	SOI REVISIONS
#4	04-26-2018	GENERAL PLAN SET
#3	04-09-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

LANDSCAPING CONSTRUCTION DETAILS

CRF FUTURE CORP.
FOR
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING

335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

AS NOTED	DATE : JANUARY 22, 2018
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FILE NO. : DB 2017 - 167

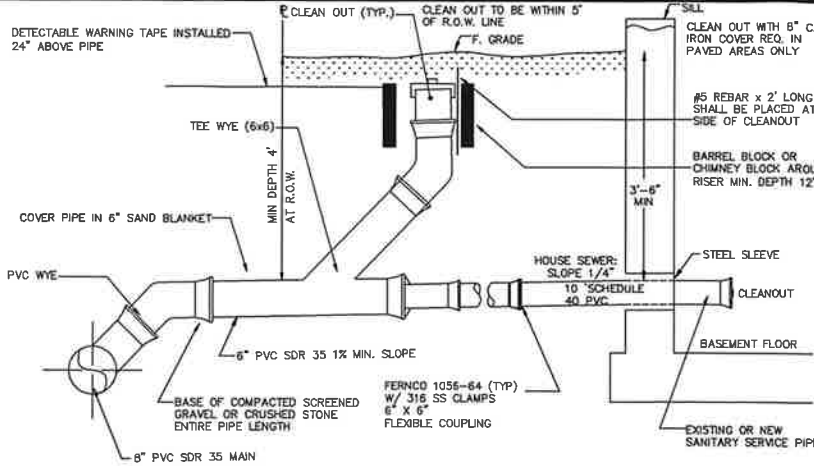
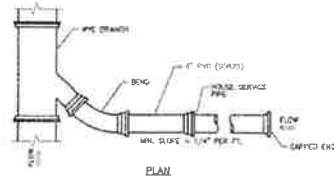


L-101

SHEET 73 OF 76

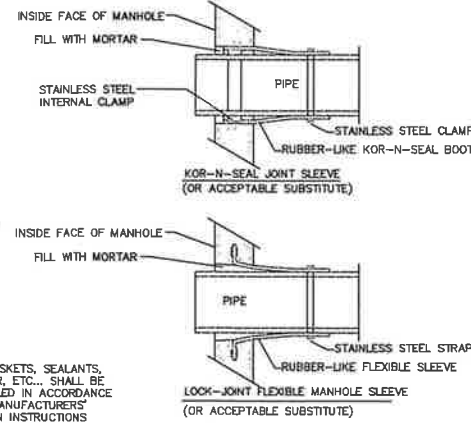
U1

- 1.) SEE DETAILS FOR SERVICE CONNECTION REQUIREMENTS
- 2.) SERVICE CONNECTION SHALL BE INSTALLED BELOW WATER MAIN WHERE POSSIBLE.
- 3.) CLEANOUTS SHALL BE INSTALLED AT EACH SERVICE CONNECTION.
- 4.) REBAR SHALL BE PLACED AT SIDE OF CLEANOUT.
- 5.) CLEANOUT SHALL BE USED TO PLUG AND TEST ALL NEW LATERALS WITH MINIMAL INTERRUPTION TO OPERATION OF HOMEOWNER SANITARY SYSTEM
- 6.) CLEANOUT RISER PIPE AND FITTINGS SHALL BE INSTALLED AT THE TIME OF RESIDENTIAL CONNECTION, AND IS NOT PART OF ROAD CONSTRUCTION.



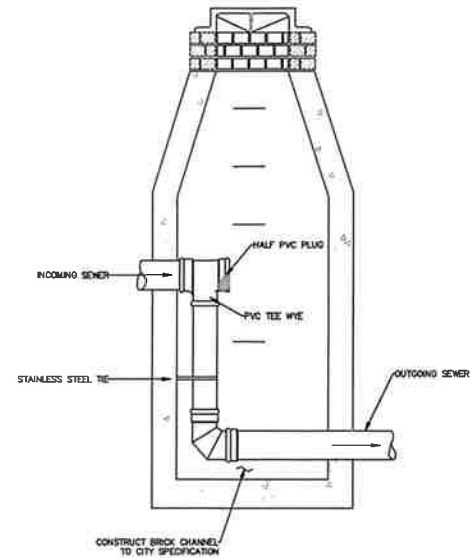
DETAIL OF UNIT SEWER SERVICE
NOT TO SCALE

U2



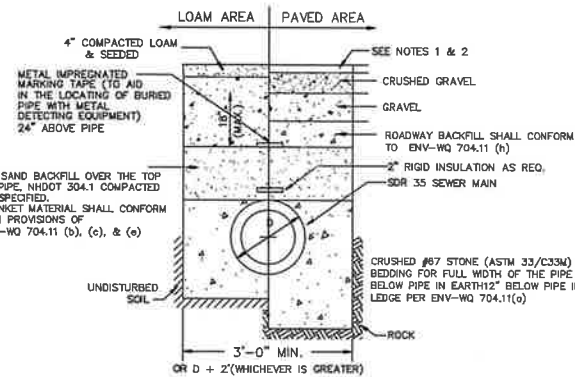
DETAIL "A" - PIPE TO MANHOLE JOINTS
NOT TO SCALE

U3



DROP DETAIL (PIPE 6")
NOT TO SCALE

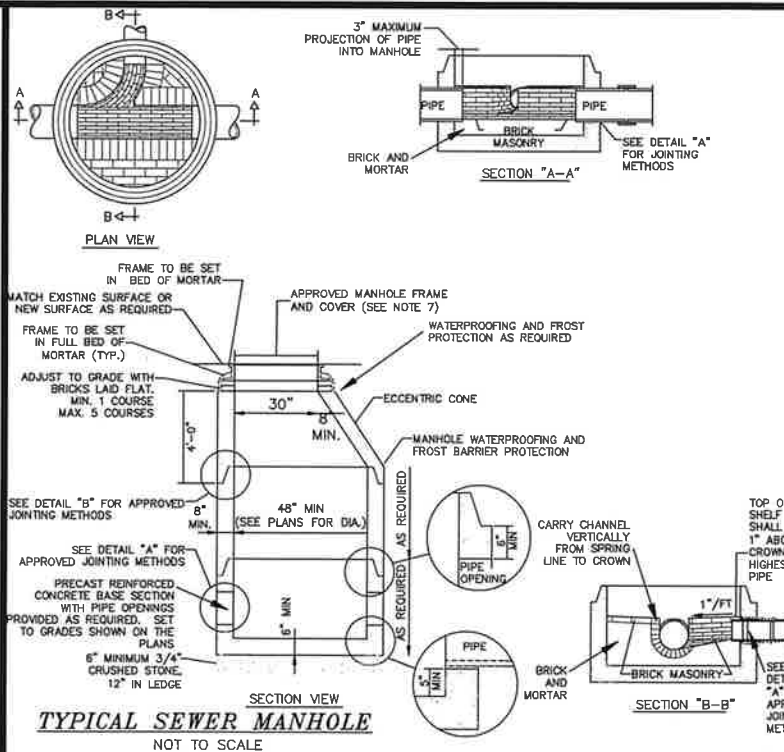
U4



- NOTE:
1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.
 2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO SUBDIVISION SPEC'S.
 3. ANTI-SLEEP COLLARS OR CLAY CHECK DAMS ON STEEP RUNS IN WET CONDITIONS

TYPICAL DRAIN AND SEWER PIPE TRENCH
NOT TO SCALE

U5

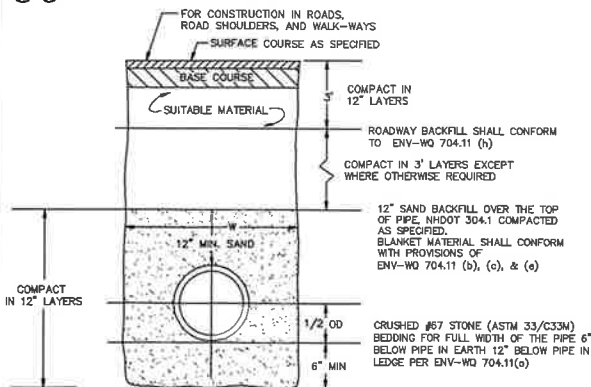


TYPICAL SEWER MANHOLE
NOT TO SCALE

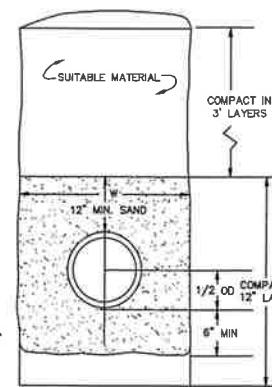
DETAIL "B" HORIZONTAL JOINTS
NOT TO SCALE

- NOTES ON MANHOLE CONSTRUCTION:
- 1) IT IS THE INTENTION THAT THE MANHOLE, INCLUDING ALL COMPONENT PARTS, HAVE ADEQUATE SPACE, STRENGTH AND LEAKPROOF QUALITIES CONSIDERED NECESSARY FOR THE INTENDED SERVICE. SPACE REQUIREMENTS AND CONFIGURATIONS, WITH STEEL REINFORCEMENT AND ADEQUATE JOINTING, THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND HS-20-44 LOADS, INCLUDING THE COVER. ALL SMH CONSTRUCTION AND MATERIALS WILL BE IAW ENV-WQ 704.13 ADOPTED OCTOBER 15, 2014.
 - 2) BARRELS AND CONE SECTIONS SHALL BE PRECAST REINFORCED CONCRETE. (IAW ENV-WQ 704.12 (d))
 - 3) SEWER MANHOLE DIAMETER SHALL BE AS INDICATED ON THE PLANS.
 - 4) PRECAST CONCRETE BARREL SECTIONS AND BASES SHALL CONFORM TO ASTM C478.
 - 5) GRAVITY SEWER PIPE TESTING WILL BE IN ACCORDANCE WITH ENV-WQ 704.06 AND MAN HOLE TESTING IAW ENV-WQ 704.17 DATED OCTOBER 15, 2014.
 - 6) INVERTS AND SHELVE: MANHOLES SHALL HAVE A BRICK PAVED SHELVE AND INVERT, CONSTRUCTED TO CONFORM TO THE SIZE OF THE PIPE AND FLOW. INVERT BRICKS SHALL BE LAID ON EDGE AND THE BASE SECTION SHALL BE FULL AT CHANGES IN DIRECTIONS, THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. CARE SHALL BE TAKEN TO ENSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE SEWER INVERT. SHELVE SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPE TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL. UNDERLAYMENT OF INVERT AND SHELVE SHALL CONSIST OF BRICK MASONRY. (IAW ENV-WQ 704.13 (g), (9)). MORTAR SHALL CONFORM WITH REQUIREMENTS OF IAW ENV-WQ 704.13 (c).
 - 7) FRAMES AND COVERS: MANHOLES FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR OPENING. 3-INCH (MINIMUM HEIGHT) LETTERS WITH THE WORD "SEWER" SHALL BE PLAINLY CAST INTO THE CENTER OF EACH MANHOLE COVER. (IAW ENV-WQ 704.13 (g) (4-8)) SEWER MAN HOLE COVERS ARE TO PAVED.
 - 8) SHALLOW MANHOLE: IN LIEU OF A CONE SECTION, WHEN MANHOLE DEPTH IS LESS THAN 8 FEET, A REINFORCED CONCRETE SLAB COVER MAY BE USED HAVING AN ECCENTRIC ENTRANCE OPENING AND CAPABLE OF SUPPORTING H-20 LOADS.
 - 9) HORIZONTAL JOINTS BETWEEN SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE OF A TYPE APPROVED BY THE ROCHESTER DPW, WHICH TYPE SHALL, IN GENERAL, DEPEND FOR WATER TIGHTNESS UPON A DOUBLE ROW OF AN OVERLAPPING TYPE ELASTOMERIC OR MASTIC-LIKE GASKET. APPROVED ELASTOMERIC SEALANTS ARE: RAM-DEX, KENT SEAL NO. 2, EZ, OR EQUAL.
 - 10) IN CROSS COUNTRY AREAS OUTSIDE OF THE PAVED ROADWAY SURFACE, THE MANHOLE FRAME ELEVATION SHALL BE A MINIMUM OF 6" ABOVE FINISHED GRADE. GRADE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE MANHOLE. ALL FRAMES AND GRATES ARE TO BE U.S.A. MADE. MANHOLE STEPS ARE PROHIBITED IN THIS MUNICIPALITY AND MUST CONFORM TO THE REQUIREMENTS OF ENV-WQ 704.14.
 - 11) THE CONTRACTOR TO WORK WITH CITY OF ROCHESTER REVIEW ENGINEER AND SEWER DEPARTMENT ON THE MEANS AND METHODS USED TO INSTALL ALL SEWER STRUCTURES. SPECIFIC ATTENTION IS TO BE PAID TO THE INSTALLATION OF SMH 1A, WHEREAS THE EXISTING PIPE SLOPE IS UNKNOWN, DURING LOW FLOW CONDITIONS, CUT AND TEMPORARILY CAP THE EXISTING VC LINE, OR INSTALL TEMPORARY BY-PASS LINE (OF EQUAL SIZE), AFTER INSTALLATION OF NEW BASIN, FERNOCO THE NEW SDR 35 PIPES TO THE EXISTING VC LINES. THIS INSTALLATION IS TO BE COORDINATED WITH THE CITY OF ROCHESTER SEWER DEPARTMENT.

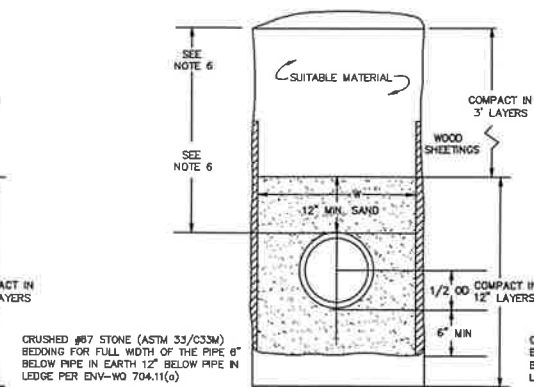
U6



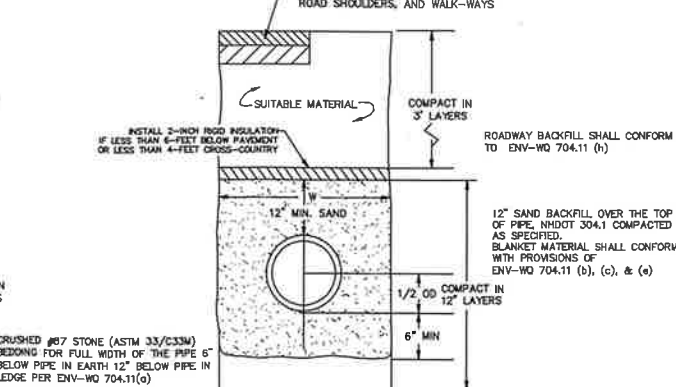
LEDGE CONSTRUCTION
NOT TO SCALE



EARTH CONSTRUCTION
NOT TO SCALE



EARTH CONSTRUCTION WITH SHEETING
NOT TO SCALE



TRENCH INSULATION
NOT TO SCALE

REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	08-18-2018	REVISED PER ACT COMMENT
#5b	09-24-2018	NOTES WHEN RESPONSE
#4	05-02-2018	ACT REVISIONS
#3	04-09-2018	ACT REVISIONS
#2	04-09-2018	GENERAL PLAN SET
#1	03-30-2018	GENERAL PLAN SET

UTILITY DETAILS
LAND OF
CITY OF ROCHESTER
FOR
CITY OF ROCHESTER
GEAR ROAD, HANSONVILLE ROAD, TESSER DRIVE
ROCHESTER, NH 03867
74X MAP 261, LOT 120 & 121

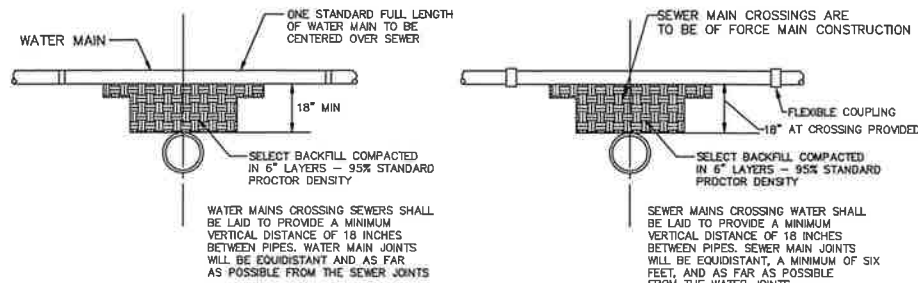
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603) 332-2863
DATE: JANUARY 22, 2018
FILE NO.: DB 2017 - 167



U8

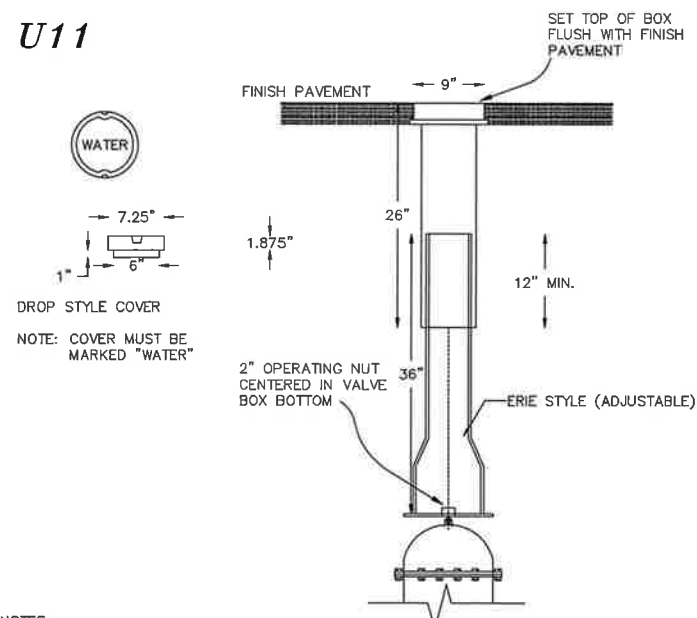
SEPERATION NOTES:

1. WATER MAIN SHALL BE IN ACCORDANCE WITH THE "RECOMMENDED STANDARDS FOR WATER WORKS" SO-CALLED TEN STATE STANDARDS AND NEW HAMPSHIRE WATER SUPPLY AND POLLUTION CONTROL DESIGN STANDARDS.
2. WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWERS. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IF THIS DISTANCE CANNOT BE OBTAINED, THEN THE PIPES SHALL BE INSTALLED IN A SEPERATE TRENCH AT AN ELEVATION SO THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.



WATER MAIN ABOVE SEWER WATER MAIN BELOW SEWER
TYPICAL WATER/SEWER SEPERATION DETAILS
NOT TO SCALE

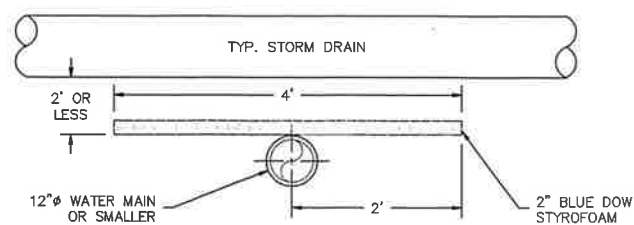
U11



- NOTES:
- 1.) ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO LOCAL WATER WORKS TECHNICAL SPECIFICATIONS.
 - 2.) ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 6' FROM TOP OF PIPE TO FINISH GRADE.

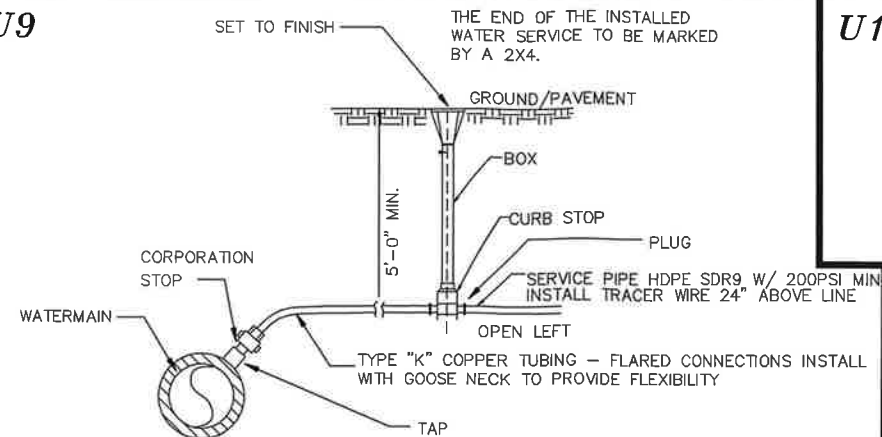
VALVE BOX DETAIL
NOT TO SCALE

U14



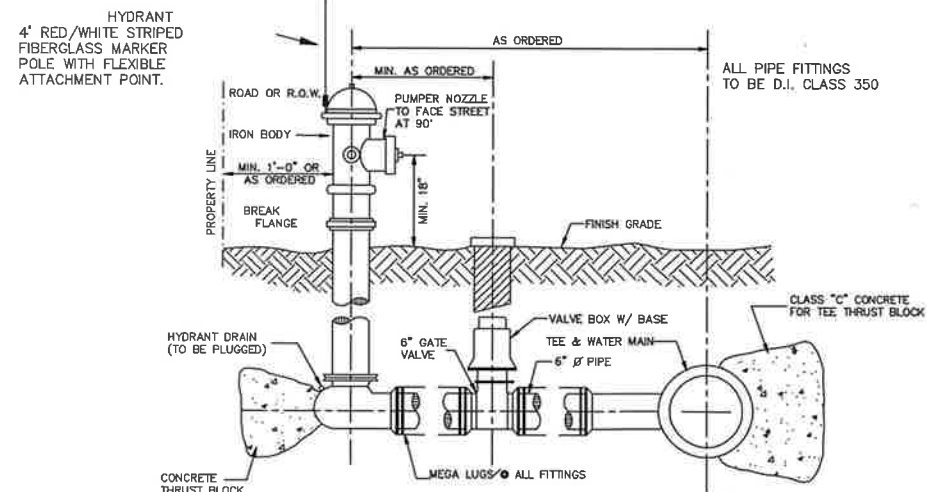
INSULATE WATER PIPE WHERE CROSSING UNDER CULVERT
NOT TO SCALE

U9



TYPICAL WATER SERVICE CONNECTION
NOT TO SCALE

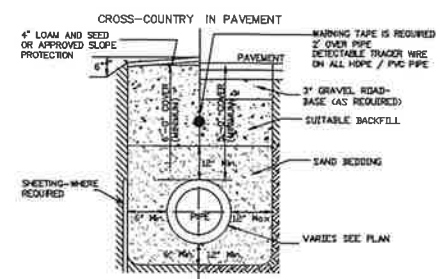
U12



- NOTES:
- 1.) THE FIRE HYDRANT IS TO BE PAINTED CITY OF ROCHESTER STANDARD COLORS AND BE EQUIPPED WITH A HYDRANT LOCATOR.
 - 2.) THE FIRE HYDRANT SHALL BE THE "KENNEDY" TYPE OR APPROVED EQUAL.
 - 3.) K81A HYDRANTS AND GATE VALVES OPEN RIGHT

HYDRANT INSTALLATION DETAIL
NOT TO SCALE

U15

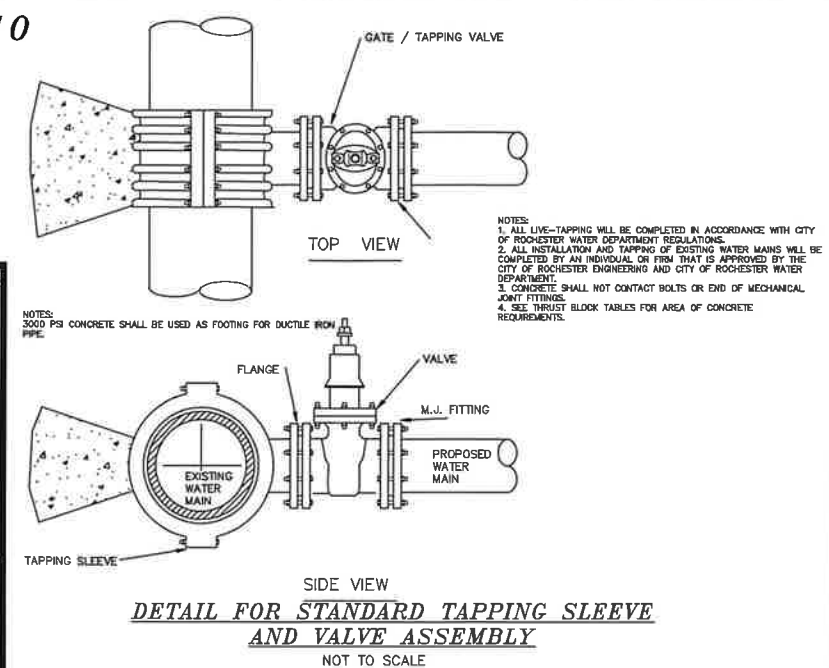


TYPICAL TRENCH DETAIL FOR WATER SYSTEM
NOT TO SCALE

GENERAL NOTES:

1. ALL FITTINGS & EXPOSED REBAR TO BE WRAPPED W/ TWO LAYERS OF 6 MIL. POLYETHYLENE WHERE COVERED WITH CONCRETE.
2. ALL CONCRETE SHALL BE CLASS C 3000 P.S.I. MINIMUM 28 DAYS COMPRESSIVE STRENGTH.
3. PLACE CONCRETE AGAINST UNDISTURBED EARTH.
4. TABLE DENOTES MINIMUM BEARING AREA OR VOLUME OF THRUST BLOCK. SPECIAL DESIGN FOR EACH INSTALLATION IS REQUIRED IF ALLOWABLE SOIL BEARING CAPACITY IS LESS THAN 3000 P.S.F.
5. VERTICAL SURFACES NOT BEARING AGAINST UNDISTURBED EARTH SHALL BE FORMED.
6. KEEP CONCRETE AWAY FROM FLANGE BOLTS AND FITTINGS.

U10



DETAIL FOR STANDARD TAPPING SLEEVE AND VALVE ASSEMBLY
NOT TO SCALE

U13

TYPICAL THRUST BLOCKS
NOT TO SCALE

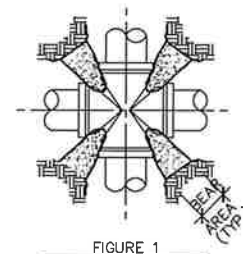


FIGURE 1
CROSS
(ONLY REQ'D IF ANY LEG IS LESS THAN 60 FT. LONG)

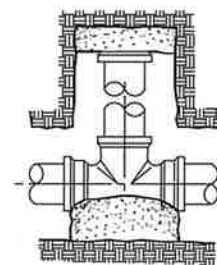


FIGURE 2
TEE, PLUG OR CAP

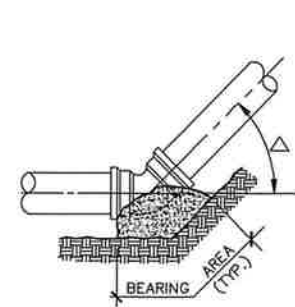


FIGURE 3
HORIZONTAL OR UPWARD VERTICAL BEND

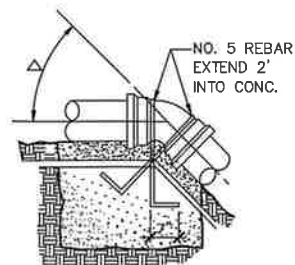


FIGURE 4
DOWNWARD VERTICAL BEND

PIPE I.D.	BEARING AREA, SQUARE FEET				VOLUME OF CONC. CU.YD.			
	FIGURE 1	FIGURE 2	FIGURE 3, A	FIGURE 4, B	FIGURE 1	FIGURE 2	FIGURE 3, A	FIGURE 4, B
4"	2	2	2	2	1.0	1.0	1.0	1.0
6"	2	2	2	2	1.5	1.5	1.5	1.5
8"	2	2	2	2	2.0	2.0	2.0	2.0
10"	3	3	3	3	3.0	3.0	3.0	3.0
12"	3	3	3	3	4.0	4.0	4.0	4.0
14"	4	4	4	4	5.0	5.0	5.0	5.0
16"	4	4	4	4	6.0	6.0	6.0	6.0
18"	5	5	5	5	7.0	7.0	7.0	7.0
20"	5	5	5	5	8.0	8.0	8.0	8.0

NOTE:

MECHANICAL JOINTS AT ALL FITTINGS IE: BENDS, TEES, CROSSES, AND VALVES SHALL BE THRUST RESTRAINT. (MEGA-LUG OR APPROVED EQUAL).

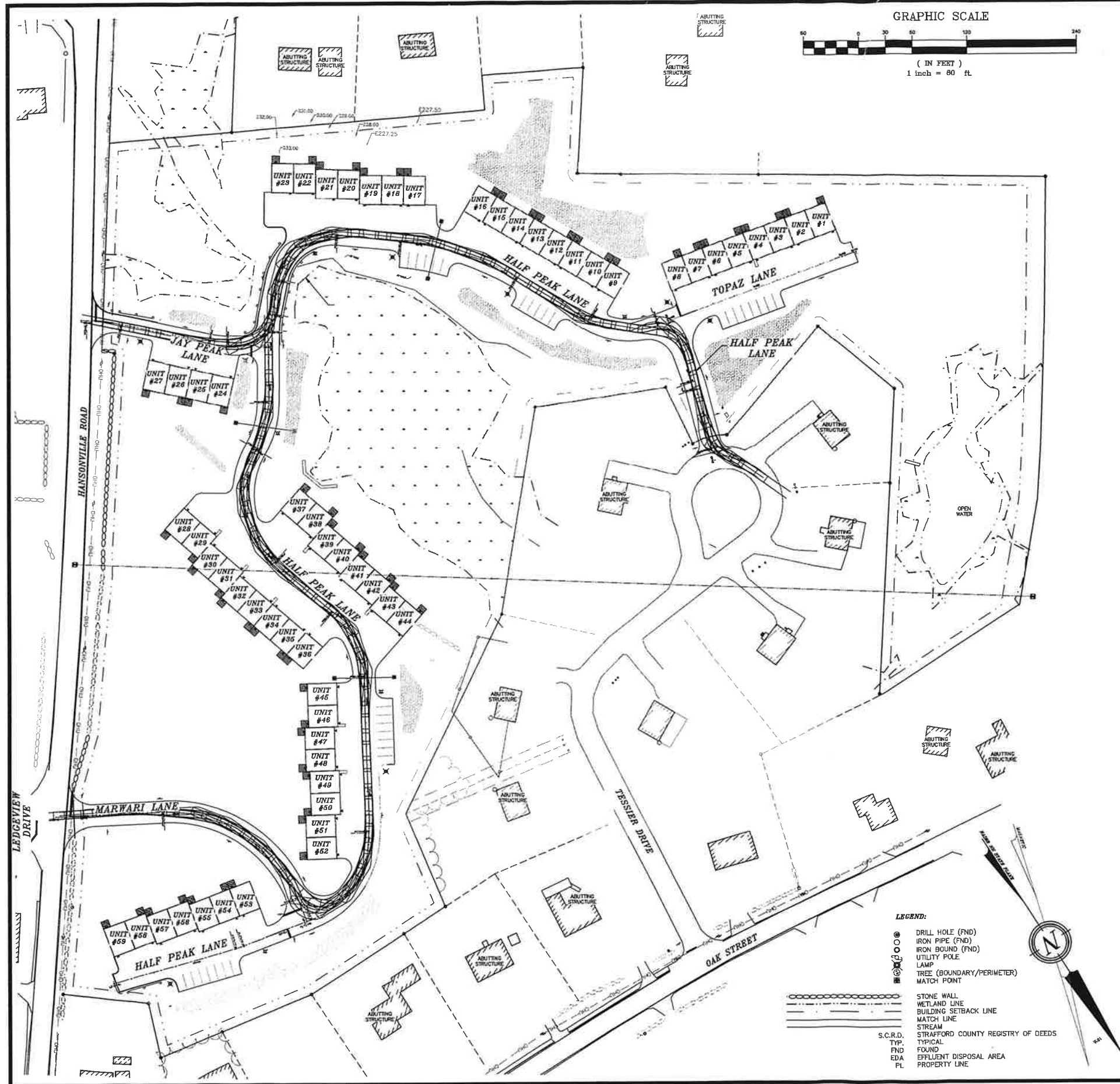
U-102

SUBMITTED FOR CONSTRUCTION		REVISION		DESCRIPTION	
#7	07-30-2018	#6a	06-18-2018	REVISED PER AGT COMMENT	
#6	05-24-2018	#5b	05-02-2018	REVISED PER AGT COMMENT	
#5	04-19-2018	#4	04-19-2018	REVISED PER AGT COMMENT	
#4	04-19-2018	#3	04-19-2018	REVISED PER AGT COMMENT	
#3	04-19-2018	#2	04-19-2018	REVISED PER AGT COMMENT	
#2	04-19-2018	#1	04-19-2018	REVISED PER AGT COMMENT	

UTILITY DETAILS
CRC FUTURE CORP.
FOR
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
ROCHESTER, NH 03867
TAX MAP 261, LOT 120 & 121

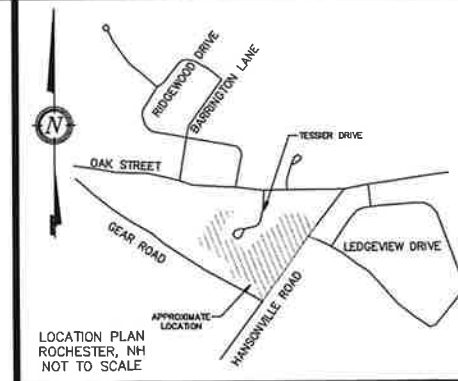
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
DATE: JANUARY 22, 2018
FILE NO.: DB 2017 - 167





NOTES:

- 1.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE OVERVIEW SITE PLAN AND THE TRACKING PATTERN OF THE ROCHESTER FIRE TRUCK.
- 2.) CURRENT OWNER: CRC FUTURE CORP.
58 EXETER ROAD
NEWMARKET, NH 03857
- 3.) APPLICANT: HALF PEAK HOLDINGS, LLC
PO BOX 1297
NORTH HAMPTON, NH 03862
- 4.) THE PROJECT PARCEL IS SHOWN AS LOT NO. 120, MAP 251 OF THE CITY OF ROCHESTER TAX ASSESSOR'S MAPS.
- 5.) THE PROJECT PARCEL CONTAINS 13.84 ACRES OR 602,671 SQUARE FEET AREA OF LAND.
- 6.) PROJECT PLAN REFERENCES: S.C.R.D. BOOK 2975, PAGE 469



REVISION	DATE	DESCRIPTION
#7	07-30-2018	SUBMITTED FOR CONSTRUCTION
#6a	06-18-2018	REVISED PER AOT COMMENT
#5b	05-24-2018	NHDES WEB RESPONSE
#4	05-02-2018	AOT REVISIONS
#3	04-11-2018	SEWER & WATER REVISIONS
#2	03-30-2018	GENERAL PLAN SET

VEHICLE TRACKING PLAN ROCHESTER FIRE TRUCK
LAND OF
CRC FUTURE CORP.
HALF PEAK HOLDINGS
GEAR ROAD, HANSONVILLE ROAD, TESSIER DRIVE
TAX MAP 251, LOT 120 & 121

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 60 FT.
DATE : JANUARY 22, 2018
FILE NO. : DB 2017 - 167

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 1424
REGISTERED PROFESSIONAL ENGINEER