

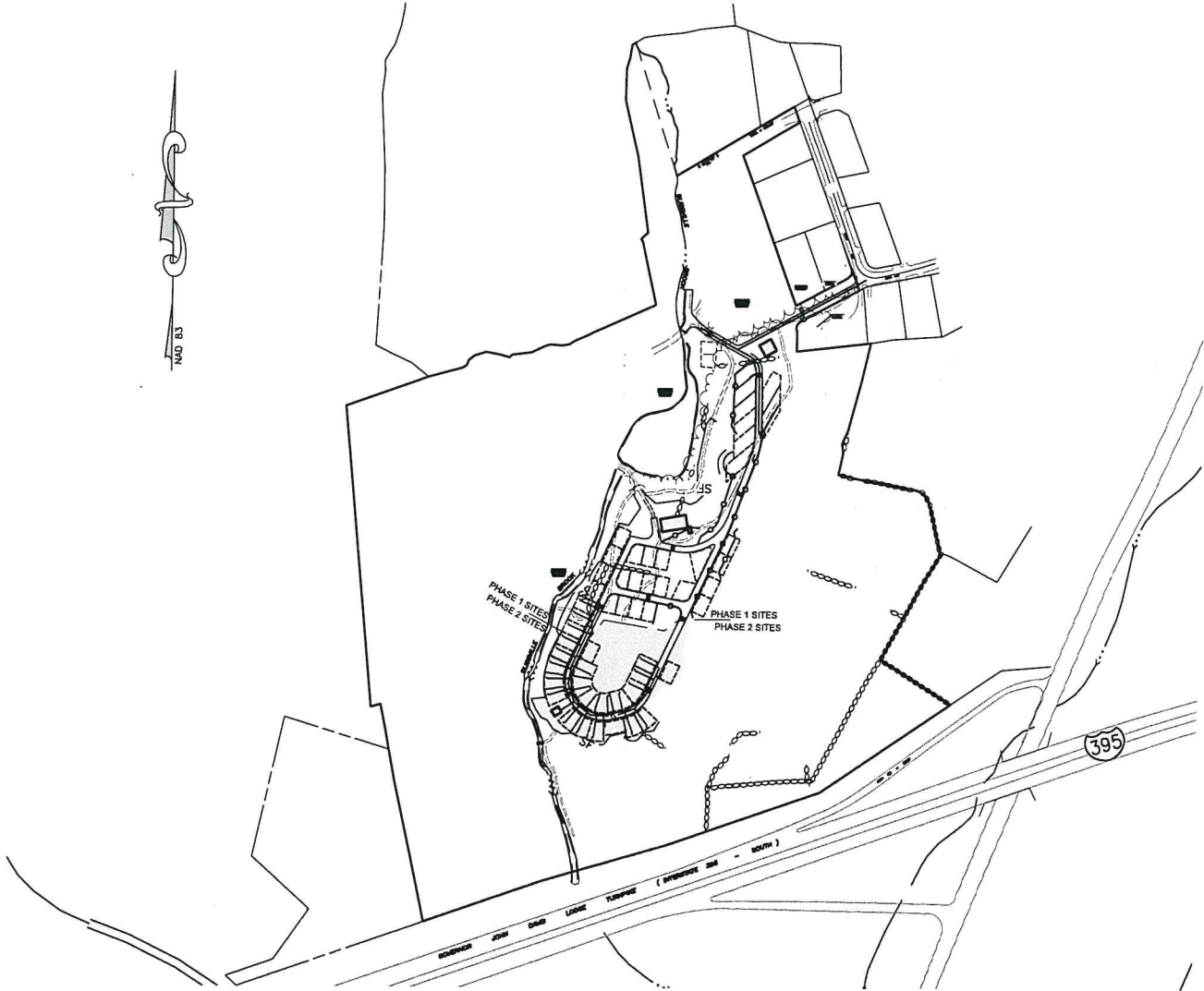
SITE DEVELOPMENT PLAN
 PREPARED FOR
SUNFOX CAMPGROUND, LLC
 15 KENYON ROAD
 LISBON, CONNECTICUT
 NOVEMBER 20, 2020

RECEIVED

SEP 28 2021

TOWN CLERKS OFFICE
TOWN OF LISBON

CIVIL DRAWING INDEX	
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	EXISTING CONDITIONS 1 OF 2
3	EXISTING CONDITIONS 2 OF 2
4	SITE PLAN
5	SITE PLAN
6	SITE PLAN
7	SITE PLAN
8	CONSTRUCTION DETAILS
9	EROSION AND SEDIMENTATION CONTROL DETAILS
10	EROSION AND SEDIMENTATION CONTROL NARRATIVE & NOTES
11	IMPACT ESTIMATES




PROPERTY OWNER: SUNFOX CAMPGROUND, LLC
15 KENYON ROAD
LISBON, CONNECTICUT 06351

APPLICANT: SUNFOX CAMPGROUND, LLC
15 KENYON ROAD
LISBON, CONNECTICUT 0635

ZONING DISTRICT: R-60

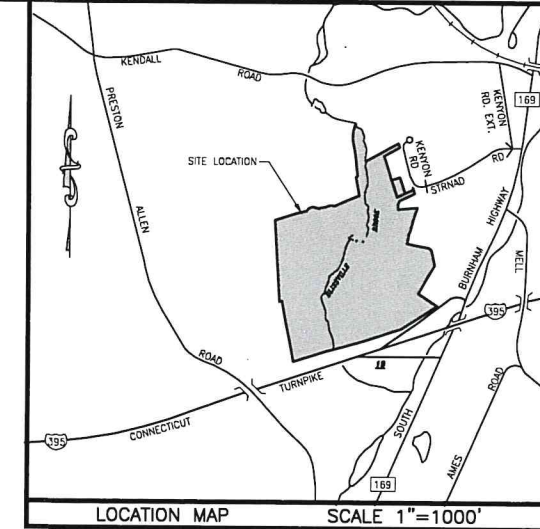
EXISTING USE: CAMPGROUND

PROPOSED USES: CAMPGROUND


 33 Wilbur Cross Way, Mansfield, CT 06268
 101 East River Drive, 1st Floor
 East Hartford, CT 06108
 860-885-1055 | www.chacompanies.com

LEGEND

PROPERTY LINE	---
ABUTTERS LINE	----
EDGE OF PAVEMENT	----
EDGE OF GRAVEL	----
EXISTING CONTOUR	---200---
STONE WALL	=====
LIMITS OF INLAND WETLANDS	WF#10
FENCE	---X---X---
TREE LINE	---X---X---
OVERHEAD WIRES	---X---X---
LEDGE	====
ROCK	---X---X---
NOW OR FORMERLY UTILITY POLE	N/F
BOUNDARY POINT	●
IRON MONUMENT	○
CONNECTICUT HIGHWAY DEPARTMENT MONUMENT(CHD)	⊕
TEST HOLE	⊕
PERCOLATION TEST	⊕
MAIL BOX	⊕



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CURVE DATA TABLE

CURVE	DELTA	RADIUS	LENGTH	CHORD
C1	82°05'38"	25.00	35.82	N20°58'29"E 32.83'
C2	91°40'50"	25.00	40.00	S20°23'15"W 35.87'

- MAP REFERENCES**
- "SITE DEVELOPMENT PLAN PREPARED FOR SUNFOX CAMPGROUND, LLC, 15 KENYON ROAD, LISBON, CONNECTICUT, COMPILATION MAP," SCALE: 1"=150', DATE: MAY, 25, 2016, REVISED 08/26/2016, BY CME ASSOCIATES, INC.
 - "PROPERTY SURVEY: LAND OF JOHN JOSEPH BELLIVEAU & MARY ETHEL BELLIVEAU, 33 STRNAD ROAD LISBON, CONNECTICUT" Scale: 1"=20' Dated: July 22, 1998 By: WEILER ASSOCIATES
 - "BOUNDARY MAP, PREPARED FOR EUGENE & MAUREEN JABLONSKI, ROUTE 169 LISBON, CONNECTICUT" Scale: 1"=50' Dated: September 15, 1992, Map # 200 By: ROB HELLSTROM LAND SURVEYING
 - "SUBDIVISION MAP & SITE PLAN PREPARED FOR GENE JABLONSKI, RTE 169 LISBON, CONNECTICUT" Scale: 1"=50' Dated: 11/15/2016 By: CME ASSOCIATES, INC.
 - "SUBDIVISION PLAN: PROPERTY OF PAULINE ALLEN & BETTY JANE KNOY BE DEVELOPED BY MARLIN ENTERPRISES INC. PRESTON ALLEN ROAD LISBON, CONNECTICUT" Scale 1"=50' Dated: November 2, 1963 By: OLAND J. HARRIS & ASSOCIATES.
 - "PLAN SHOWING PROPERTY OF EDWARD STRNAD TOWN OF LISBON CONNECTICUT" Scale: 1"=100' Dated: January 14, 1992 Survey By: GEO PITCHER Subdivision By: THOS. PETERSON
 - "SEDIMENT & EROSION CONTROL PLAN & DETAILS FOR GENE JABLONSKI SITE PLAN ROUTE 169 LISBON, CONNECTICUT" Scale: 1"=30' Dated: MARCH 21, 1986
 - "CONNECTICUT STATE HIGHWAY DEPARTMENT, RIGHT OF WAY MAP, TOWN OF LISBON, CONNECTICUT TURNPIKE, FROM THE NORWICH TOWN LINE NORTHEASTERLY TO THE GRISWOLD TOWN LINE" Scale: 1"=80' Dated: DECEMBER 14, 1960
 - "SKETCH MAP OF DEERHAVEN" SCALE: 1"=1"0" DATE: 7-11-1997, BY R & J PAWLKOWSKI, REVISED 7-15-1997
 - "FIRM: FLOOD INSURANCE RATE MAP, NEW LONDON COUNTY, CONNECTICUT ALL JURISDICTIONS" Scale 1"=500' Dated: JULY 18, 2011 MAP # 09011C0209G

- NOTES**
- THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS PREPARED AND ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1986 AND AS AMENDED ON OCTOBER 26, 2018.
 - THE TYPE OF SURVEY PERFORMED IS A TOPOGRAPHIC AND LIMITED BOUNDARY SURVEY. THE EASTERLY BOUNDARY CONFORMS TO THE HORIZONTAL CLASS A-2, THE WESTERLY BOUNDARY INFORMATION CONFORMS TO HORIZONTAL CLASS D. VERTICAL DATUM CONFORMS TO CLASS 1-2.
 - THIS SURVEY WAS PREPARED TO DEPICT THE EXISTING CONDITIONS OF A PORTION OF THE SUBJECT PROPERTY.
 - THE SUBJECT PARCEL WAS CONVEYED TO SUNFOX CAMPGROUND, LLC, THROUGH A CONVEYANCE DATED ON 2/26/2014, AND IS RECORDED IN VOLUME 156, PAGE 563 OF THE LISBON LAND RECORDS.
 - THE SUBJECT PROPERTY IS SHOWN ON THE LISBON TAX ASSESSOR MAP No. 73 AS LOT 38 OF BLOCK 9 AND HAS BEEN ASSIGNED ADDRESS OF 15 KENYON ROAD, LISBON, CONNECTICUT.
 - TOTAL AREA OF PROPERTY = 63.09± ACRES (2,748,077± SQUARE FEET).
 - SITE IS LOCATED IN ZONE R-60.
 - WETLANDS WERE FLAGGED BY JAMES SIPPERLY ON 1/16/2020.
 - ELEVATIONS ARE BASED ON VERTICAL DATUM NAVD88.
 - HORIZONTAL DATUM IS BASED ON NAD83 COORDINATES.
 - UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES, FROM PAROL TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE. THE EXISTENCE OF WHICH ARE UNKNOWN TO CME ASSOCIATES, INC. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG 1-800-922-4455.

SITE DEVELOPMENT PLAN
PREPARED FOR
DAVID C. KWAKOWSKI
15 KENYON ROAD
LISBON, CONNECTICUT

EXISTING CONDITIONS

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHK	PWP	RAC
1	07/10/2021	HEALTH COMMENTS	MAC			
2	04/02/2021	ET DPH COMMENTS	PWP			
3	06/15/2021	CT DPH COMMENTS	RAC			

JOB DATA

PROJECT	BOOK NO.	DESIGNED	DRAWN	CHECKED	CGO FILE	FILE
2019160	192	KLD/PWP	ZHC/RAC	KLD	2019160 ALL	2019160 STP.dwg

DATE: 11/20/2020
SCALE: 1" = 80'

PROJECT: #2019160
SHEET 2 OF 11

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.
CRAIG P. BIGGER, L.S. #70413 DATE





33 Wilbur Cross Way, Mansfield, CT 06268
 101 East River Drive, 1st Floor
 East Hartford, CT 06108
 860-865-1851 www.ciacompanies.com

SITE DEVELOPMENT PLAN
 PREPARED FOR
DAVID NOWAKOWSKI
 15 KENYON ROAD
 LISBON, CONNECTICUT

EXISTING CONDITIONS

JOB DATA

DATE: 11/20/2020
 SCALE: 1" = 80'
 PROJECT: #2019160

SHEET
 3 OF 11

NO.	DATE	DESCRIPTION
1	02/10/2021	HEALTH COMMENTS
2	04/02/2021	CT DPH COMMENTS
3	08/15/2021	CT DPH COMMENTS

PROJECT	DESIGNED	DRAWN	CHECKED	COORD FILE	FILE
2019160	KLD/PMP	ZBC/RAC	KLD	2019160 ALL	2019160 STP.dwg

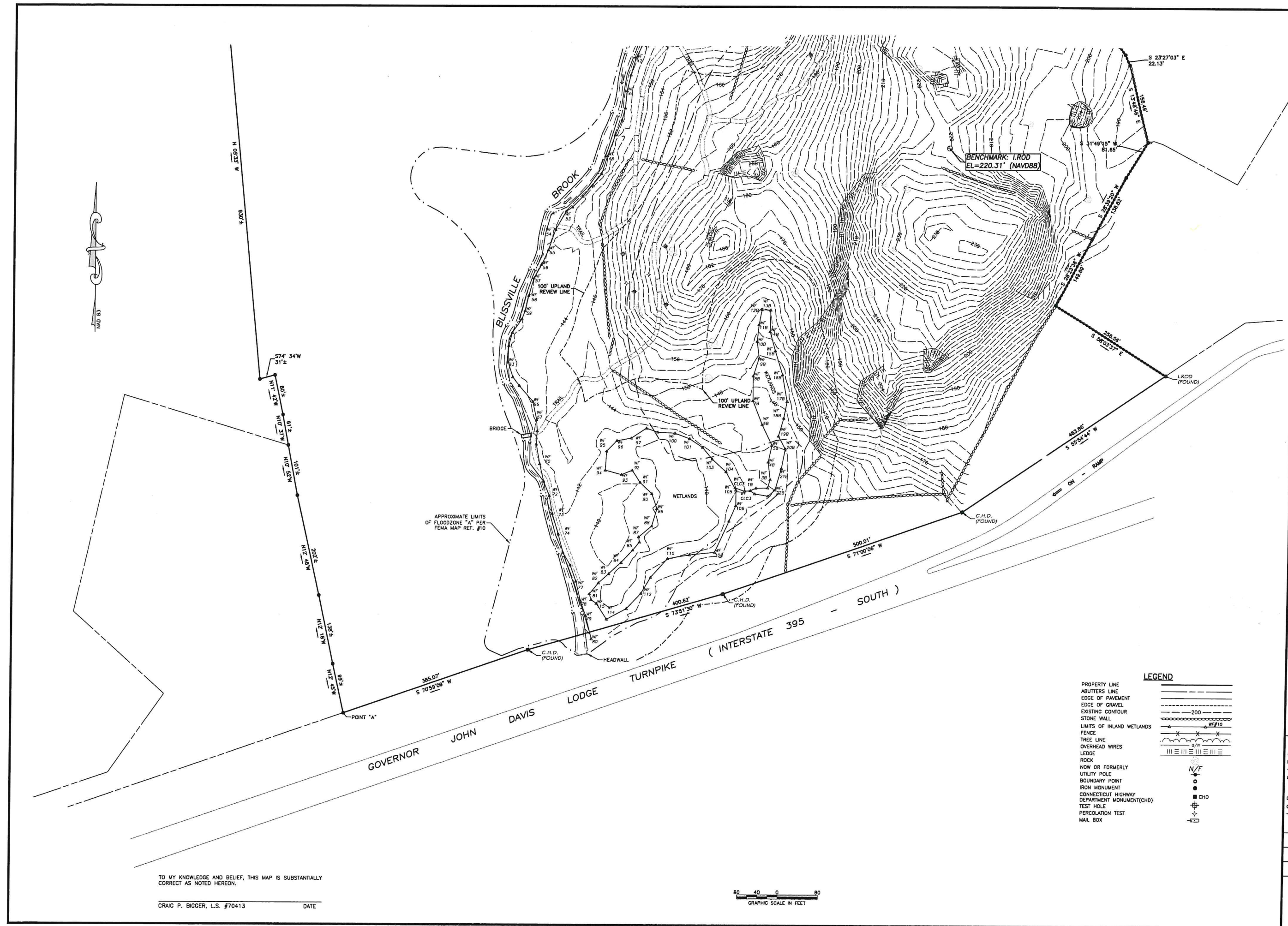
LEGEND

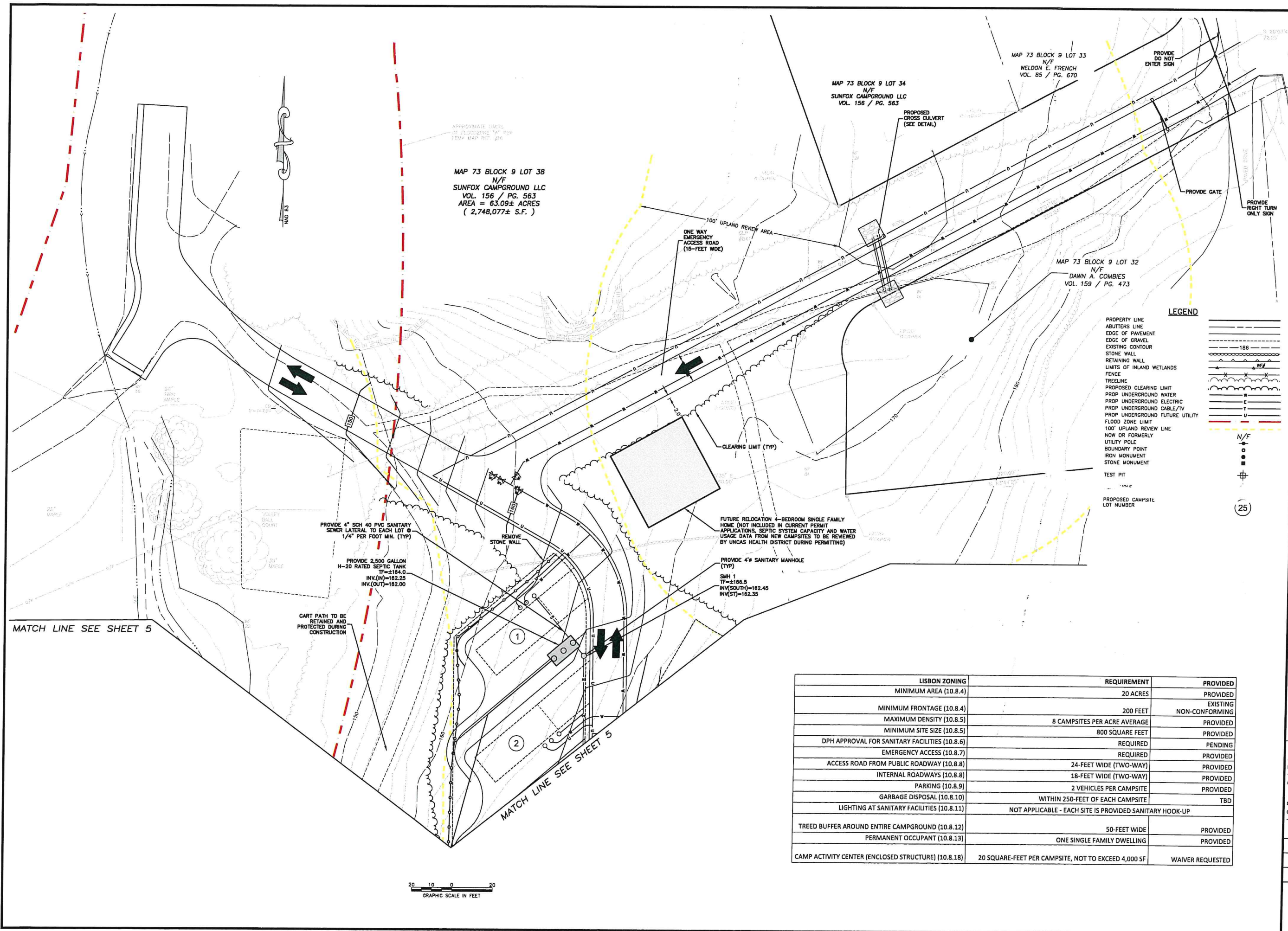
- PROPERTY LINE
- ABUTTERS LINE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- EXISTING CONTOUR
- STONE WALL
- LIMITS OF INLAND WETLANDS
- FENCE
- TREE LINE
- OVERHEAD WIRES
- LEDGE
- ROCK
- NOW OR FORMERLY
- UTILITY POLE
- BOUNDARY POINT
- IRON MONUMENT
- CONNECTICUT HIGHWAY
- DEPARTMENT MONUMENT(CHD)
- TEST HOLE
- PERCOLATION TEST
- MAIL BOX



TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

CRAIG P. BIGGER, L.S. #70413 DATE





SITE DE I.C. IENT PLAN
 PR 2A1 FOR
DAVID KAKOWSKI
 15 N ROAD
 LISBON, CONNECTICUT
 I.E. PLAN

LEGEND

- PROPERTY LINE
- ABUTTERS LINE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- EXISTING CONTOUR
- STONE WALL
- RETAINING WALL
- LIMITS OF INLAND WETLANDS
- FENCE
- TREELINE
- PROPOSED CLEARING LIMIT
- PROP UNDERGROUND WATER
- PROP UNDERGROUND ELECTRIC
- PROP UNDERGROUND CABLE/TV
- PROP UNDERGROUND FUTURE UTILITY
- FLOOD ZONE LIMIT
- 100' UPLAND REVIEW LINE
- NOW OR FORMERLY UTILITY POLE
- BOUNDARY POINT
- IRON MONUMENT
- STONE MONUMENT
- TEST PIT
- PROPOSED CAMPSITE LOT NUMBER

LISBON ZONING	REQUIREMENT	PROVIDED
MINIMUM AREA (10.8.4)	20 ACRES	PROVIDED
MINIMUM FRONTAGE (10.8.4)	200 FEET	EXISTING
MAXIMUM DENSITY (10.8.5)	8 CAMPSITES PER ACRE AVERAGE	NON-CONFORMING
MINIMUM SITE SIZE (10.8.5)	800 SQUARE FEET	PROVIDED
DPH APPROVAL FOR SANITARY FACILITIES (10.8.6)	REQUIRED	PENDING
EMERGENCY ACCESS (10.8.7)	REQUIRED	PROVIDED
ACCESS ROAD FROM PUBLIC ROADWAY (10.8.8)	24-FOOT WIDE (TWO-WAY)	PROVIDED
INTERNAL ROADWAYS (10.8.8)	18-FOOT WIDE (TWO-WAY)	PROVIDED
PARKING (10.8.9)	2 VEHICLES PER CAMPSITE	PROVIDED
GARBAGE DISPOSAL (10.8.10)	WITHIN 250-FEET OF EACH CAMPSITE	TBD
LIGHTING AT SANITARY FACILITIES (10.8.11)	NOT APPLICABLE - EACH SITE IS PROVIDED SANITARY HOOK-UP	
TREED BUFFER AROUND ENTIRE CAMPGROUND (10.8.12)	50-FOOT WIDE	PROVIDED
PERMANENT OCCUPANT (10.8.13)	ONE SINGLE FAMILY DWELLING	PROVIDED
CAMP ACTIVITY CENTER (ENCLOSED STRUCTURE) (10.8.18)	20 SQUARE-FEET PER CAMPSITE, NOT TO EXCEED 4,000 SF	WAIVER REQUESTED

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	07/10/2021	HEALTH COMMENTS	RAC
2	04/02/2021	CT DPH COMMENTS	PUP
3	08/15/2021	CT DPH COMMENTS	RAC

JOB DATA

PROJECT	BOOK NO.	DESIGNED	DRAWN	CHECKED	COORD FILE	FILE
2019160	182	KLD/PMP	ZBC/RAC	KLD	2019160 ALL	2019160 STP-4WS

DATE: 11/20/2020
 SCALE: 1" = 20'
 PROJECT: #2019160

SHEET 4 OF 11

MATCH LINE SEE SHEET 4

MAP 73 BLOCK 9 LOT 38
N/F
SUNFOX CAMPGROUND LLC
VOL. 156 / PG. 563
AREA = 63.09± ACRES
(2,748,077± S.F.)

BASIS FOR SEPTIC DESIGN

TOTAL SITE FLOWS

EXISTING CAMPGROUND HAS 88 CAMPSITES (WITH A COMBINATION OF SITES SERVICED BY SEPTIC SYSTEMS, COMMUNITY BATHROOMS, SITES THAT USE THE DUMP STATION, AND SERVICE BY A "HONEY WAGON")

2018 WATER USAGE DATA
AVERAGE CAMP-WIDE USAGE FOR APRIL THROUGH OCTOBER = 3,642 GALLONS PER DAY
3,649.5 GPD/88 CAMPSITES = 41.5 GPD/CAMPSITE

ASSUMED RATE FOR NEW CAMPSITES
41.5 GPD X 1.5 SAFETY FACTOR = 62.3 GPD/CAMPSITE

PROPOSED EXPANSION INCLUDES:

32 NEW CAMPSITES AT 62.3 GPD/SITE = 1,993.6 GPD
(29 SITES ON NEW SANITARY SEWER COLLECTION SYSTEM & 3 WITHIN SERVICE AREA OF PROPOSED PAVILION)

PROPOSED DAILY WATER USAGE BELOW 7,500 GPD
EXISTING 3649.5 GPD X 1.5 SAFETY FACTOR = 5,474.3 GPD
PLUS 32 NEW CAMPSITES X 62.3 GPD (ALREADY INCLUDES SAFETY FACTOR) = 1,993.6 GPD
TOTAL DAILY USAGE = 5,474.3 + 1,993.6 = 7,467.9 GPD < 7,500 GPD

DESIGN DATA

PERCOLATION RATE = 6.2 MIN/IN (PERC A)

REQUIRED EFFECTIVE LEACHING AREA

32 CAMPSITES
APPLICATION RATE = 1.5 PER TABLE 6 FOR NON-PROBLEMATIC SEWAGE
1,993.6 / 1.5 = 1,329.1 SF OF ELA REQUIRED

FUTURE RELOCATION OF 4 BEDROOM RESIDENCE ON-SITE
PER TABLE 6 577.5 SF OF ELA REQUIRED

TOTAL ELA REQUIRED
1,329.1 SF + 577.5 SF = 1,906.6 SF

MLSS

RESTRICTIVE LAYER AT 52" (TEST PIT 2)
SLOPE = ±2.9%
HF = 10

TOTAL DESIGN FLOW = 1,993.6 + 600 = 2,593.6
FF = 2,593.6/300 = 8.65

PF = 1 (PERC RATE LESS THAN 10 MIN/IN)

MLSS = 10 * 8.65 * 1 = 86.5 LF

PROPOSED SYSTEM

2 ROWS OF 20 18" PRECAST CONCRETE GALLERIES AT 6.2 SF/LF

EFFECTIVE LEACHING AREA PROVIDED = 320 LF * 6.2 SF/LF = 1,984.0 SF

SPREAD PROVIDED = ±160 LF

PROVIDE TEST PITS (50' DOWN GRADIENT FROM SEPTIC SYSTEM LEACH FIELD) PRIOR TO CONSTRUCTION. TEST PITS MUST BE OBSERVED BY UNCAS HEALTH DISTRICT

PROVIDE TWO ROWS OF 20 18" PRECAST CONCRETE GALLERIES

PROVIDE STANDARD DISTRIBUTION BOX
INV(N)=155.50
INV(O)=155.50
INV(OVERFLOW)=155.67

PROVIDE DISTRIBUTION BOX W/ BAFFLE
INV(N)=155.50
INV(O)=155.33

PROVIDE STANDARD DISTRIBUTION BOX
INV(N)=158.00
INV(O)=158.00
INV(OVERFLOW)=158.17

PROVIDE ±275 LF OF 6" SDR 35 PVC DISTRIBUTION PIPE @ 0.6%

RESERVE AREA (PUMP REQUIRED)

FL=158.07
FL=155.5

PERC "A" (SEE SHEET 7 FOR RESULTS)

PERC "B" (SEE SHEET 7 FOR RESULTS)

CLEARING LIMIT (TYP)

PROVIDE ±360 LF OF 2" DR 11 HDPE FORCE MAIN

MATCH LINE SEE SHEET 4

MATCH LINE SEE SHEET 6

TEST HOLE DATA OBSERVED BY: PETE PARENT, & KATEY DECARLI 12/11/2019
TP #1 TOTAL DEPTH=84" 0"-4" TOPSOIL 4"-66" BROWN FINE SANDY LOAM 66"-84" COURSE SAND RESTRICTIVE LAYER AT 66" MOTTLING AT 65" ROOTS TO 55"
TP #2 TOTAL DEPTH=76" 0"-5" TOPSOIL 5"-52" BROWN FINE SANDY LOAM 52"-78" GRAY COURSE SAND RESTRICTIVE LAYER AT 52" COBBLES AND BOULDERS THROUGHOUT ROOTS TO 55"
TP #3 TOTAL DEPTH=82" 0"-8" TOPSOIL 8"-59" BROWN FINE SANDY LOAM 59"-82" GRAY MED-FINE SAND W/GRAVEL RESTRICTIVE LAYER AT 59" WATER AT 56" ROOTS TO 52"
TP #4 TOTAL DEPTH=88" 0"-7" TOPSOIL 7"-34" BROWN FINE SANDY LOAM 34"-88" GRAY FINE SAND W/ GRAVEL RESTRICTIVE LAYER AT 34" ROOTS TO 34"

PERCOLATION DATA PERFORMED BY: PETE PARENT, PE 12/11/2019
PERC A TOTAL DEPTH=24" PRE-SOAK @ 3:00 PM 11:15 AM 4.5" 11:18 AM 6.25" 11:22 AM 10.5" 11:27 AM 13.0" 11:30 AM 14.5" 11:34 AM 15.5" 11:37 AM 18.25" 11:40 AM 17.0" 11:44 AM 18.0" 11:48 AM 18.75" 11:54 AM 19.5" 11:58 AM 20.25" 12:03 AM 21.0" RATE=6.2 MIN/IN
PERC B TOTAL DEPTH=24" PRE-SOAK @ 3:00 PM 12:05 PM 7.5" 12:10 PM 10.0" 12:14 PM 12.0" 12:17 PM 13.25" 12:21 PM 13.75" 12:27 PM 15.0" 12:32 PM 16" 12:41 PM 17" 12:47 PM 18.25" 12:51 PM 19.0" 12:58 PM 20.0" RATE=6.5 MIN/IN

PROVIDE ±200 LF OF 6" SCH 40 PVC SANITARY SEWER @ 4.0%

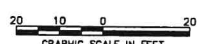
PROVIDE CLEAN OUTS TO GRADE AT 75" O.C. (MAX) (TYP. SEE DETAIL)

PROVIDE 4" SCH 40 PVC SEWER LATERAL TO EACH LOT 1/4" PER FOOT MIN. (TYP)

PROVIDE CLEAN OUT TO GRADE (TYP. SEE DETAIL) FL=±172.3

LEGEND

- PROPERTY LINE
- ADJUTERS LINE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- EXISTING CONTOUR
- STONE WALL
- RETAINING WALL
- LIMITS OF INLAND WETLANDS
- FENCE
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- IRON MONUMENT
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- TEST PIT
- PERC HOLE
- PROPOSED CAMPSITE LOT NUMBER



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SITE DEVELOPMENT PLAN
PREPARED FOR
DAVID NOWAKOWSKI
15 KENYON ROAD
LISBON, CONNECTICUT

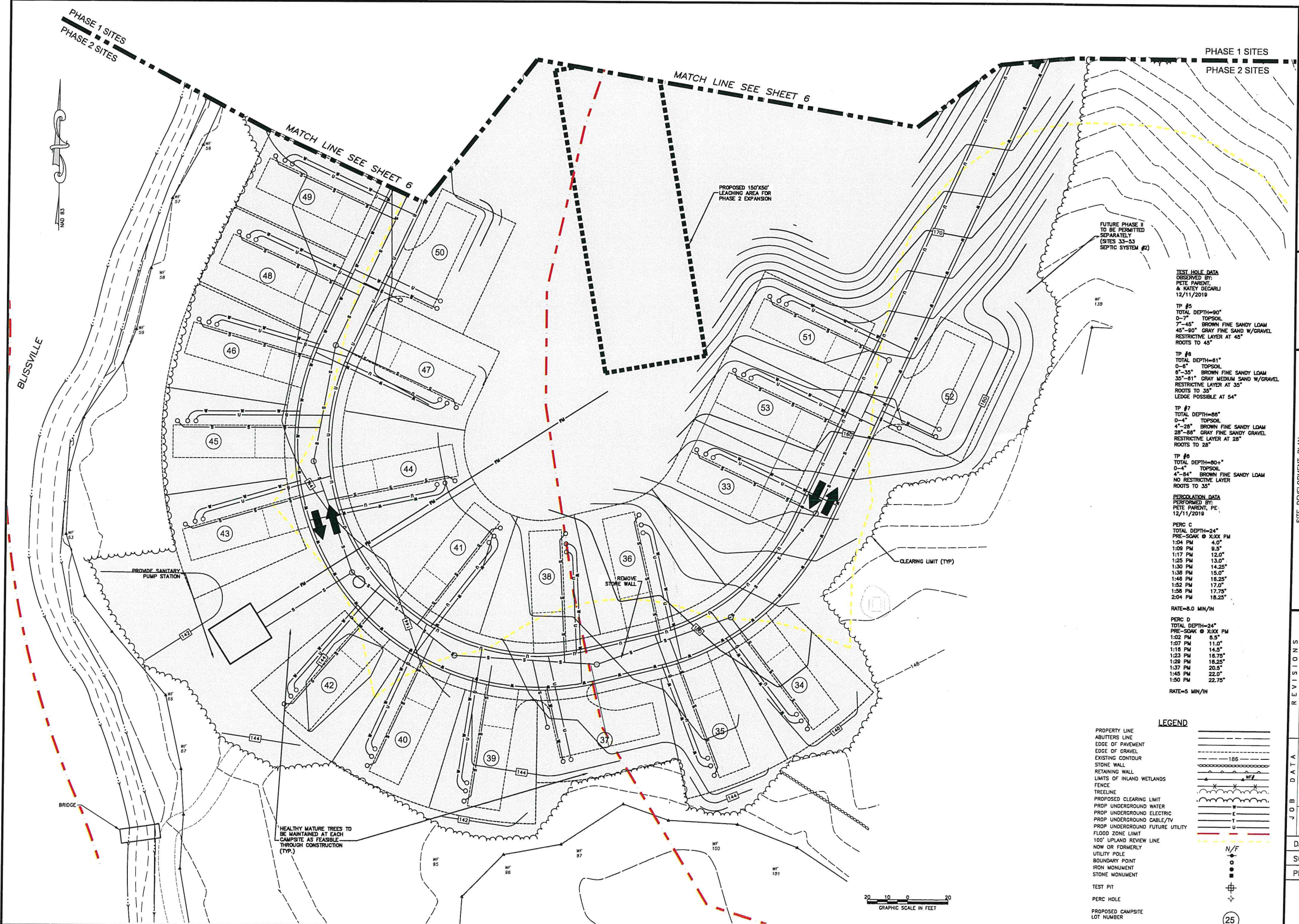
SITE PLAN

REVISIONS	
NO.	DESCRIPTION
1	02/10/2021 HEALTH COMMENTS
2	04/02/2021 CT DPH COMMENTS
3	08/15/2021 CT DPH COMMENTS

JOB DATA	
PROJECT	DATE
2019160	11/20/2020
BOOK NO. 192	
DESIGNED	KLD/PMP
DRAWN	ZBC/RAC
CHECKED	KLD
COORD FILE	2019160 ALL
FILE	2019160 SIP.dwg

DATE: 11/20/2020
SCALE: 1" = 20'
PROJECT: #2019160

SHEET 5 OF 11



TEST HOLE DATA
OBSERVED BY:
PETE PARENT
& KATEY DECARLI
12/11/2019

TP #5
TOTAL DEPTH=90"
0-7" TOPSOIL
7-45" BROWN FINE SANDY LOAM
45-90" GRAY FINE SAND W/ GRAVEL
RESTRICTIVE LAYER AT 45"
ROOTS TO 45"

TP #6
TOTAL DEPTH=61"
0-6" TOPSOIL
6-35" BROWN FINE SANDY LOAM
35-61" GRAY MEDIUM SAND W/ GRAVEL
RESTRICTIVE LAYER AT 35"
ROOTS TO 35"
LEDGE POSSIBLE AT 54"

TP #7
TOTAL DEPTH=86"
0-4" TOPSOIL
4-28" BROWN FINE SANDY LOAM
28-86" GRAY FINE SANDY GRAVEL
RESTRICTIVE LAYER AT 28"
ROOTS TO 28"

TP #8
TOTAL DEPTH=80+
0-4" TOPSOIL
4-84" BROWN FINE SANDY LOAM
NO RESTRICTIVE LAYER
ROOTS TO 35"

PERCOLATION DATA
PERFORMED BY:
PETE PARENT, PE.
12/11/2019

PERC C
TOTAL DEPTH=24"
PRE-SOAK @ 3:00 PM
1:04 PM 4.0"
1:06 PM 8.5"
1:17 PM 12.0"
1:25 PM 13.0"
1:30 PM 14.25"
1:38 PM 15.0"
1:46 PM 16.25"
1:52 PM 17.0"
1:56 PM 17.75"
2:04 PM 18.25"
RATE=8.0 MIN/IN

PERC D
TOTAL DEPTH=24"
PRE-SOAK @ 3:00 PM
1:02 PM 8.5"
1:07 PM 11.0"
1:16 PM 14.5"
1:23 PM 16.75"
1:29 PM 18.25"
1:37 PM 20.5"
1:43 PM 22.0"
1:50 PM 22.75"
RATE=5 MIN/IN

LEGEND

- PROPERTY LINE
- ABUTTERS LINE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- EXISTING CONTOUR
- STONE WALL
- RETAINING WALL
- LIMITS OF INLAND WETLANDS
- FENCE
- TREELINE
- PROPOSED CLEARING LIMIT
- PROP UNDERGROUND WATER
- PROP UNDERGROUND ELECTRIC
- PROP UNDERGROUND CABLE/TV
- PROP UNDERGROUND FUTURE UTILITY
- FLOOD ZONE LIMIT
- 100' UPLAND REVIEW LINE
- NOW OR FORMERLY UTILITY POLE
- BOUNDARY POINT
- IRON MONUMENT
- STONE MONUMENT
- TEST PIT
- PERC HOLE
- PROPOSED CAMPSITE LOT NUMBER

SITE DEVELOPMENT PLAN
PREPARED FOR
DAVID NOWAKOWSKI
15 KENYON ROAD
LISBON, CONNECTICUT

SITE PLAN

REVISIONS

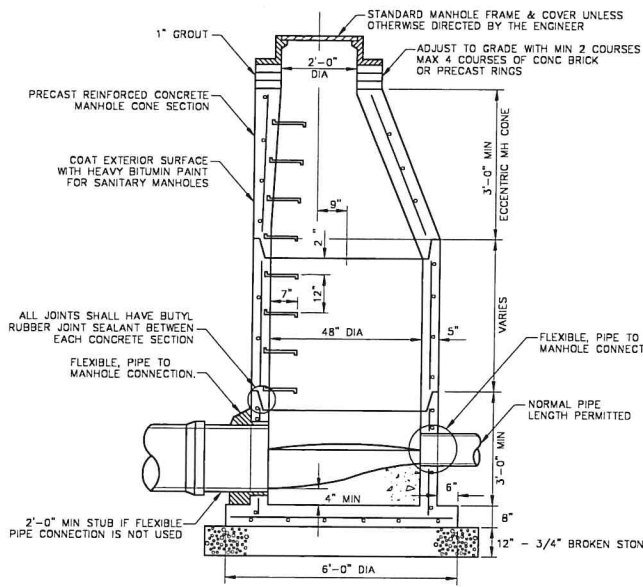
NO.	DATE	DESCRIPTION	BY	INC	PWP	INC
1	02/10/2021	HEALTH COMMENTS				
2	04/02/2021	CT DPH COMMENTS				
3	06/15/2021	CT DPH COMMENTS				

JOB DATA

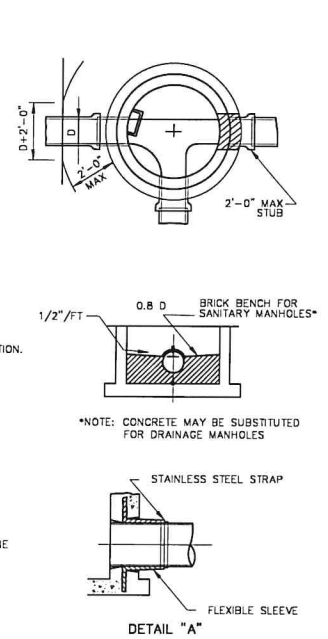
PROJECT	2019160
BOOK NO.	192
DESIGNED	KLD/PMP
DRAWN	ZBC/RAC
CHECKED	KLD
CODED FILE	2019160 ALL
FILE	2019160 STP.dwg

DATE: 11/20/2020
SCALE: 1" = 20'
PROJECT: #2019160

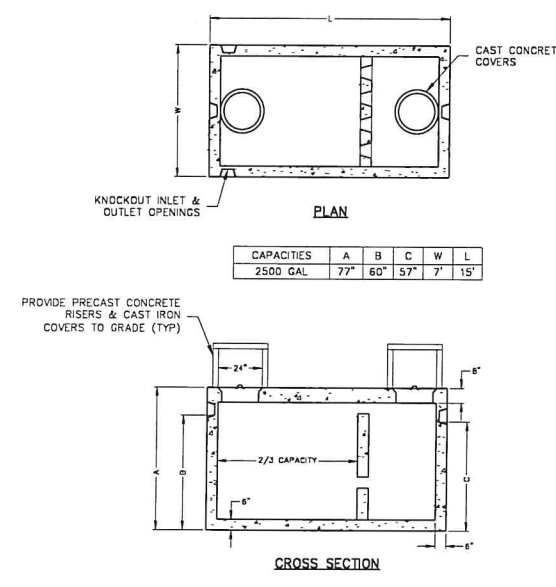
SHEET
7 OF 11



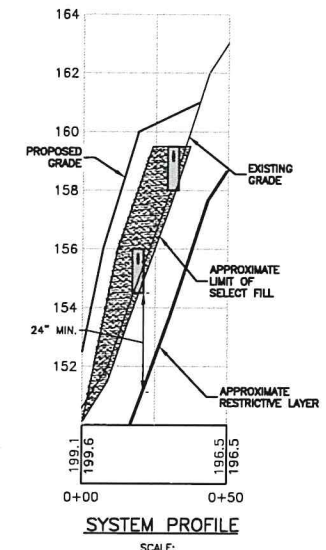
STANDARD SANITARY MANHOLE DETAIL
NOT TO SCALE



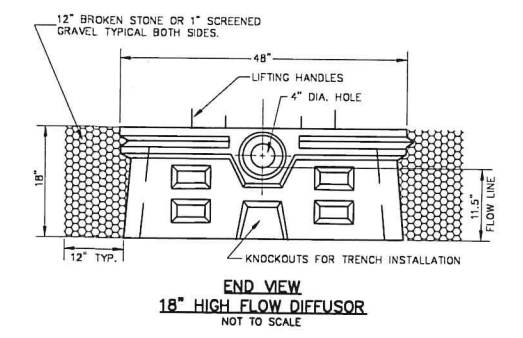
DETAIL "A"



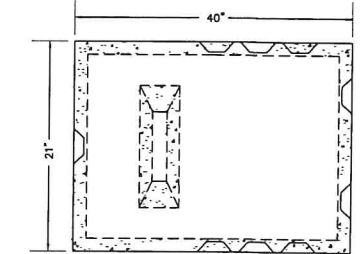
2 COMPARTMENT H₂O RATED SEPTIC TANK
NOT TO SCALE



SYSTEM PROFILE
SCALE: HOR. 1"=30' VERT. 1"=3'

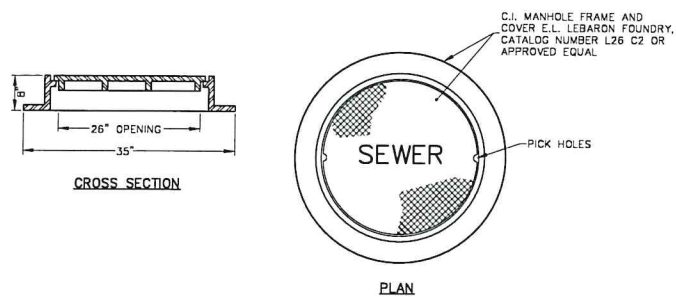


END VIEW 18" HIGH FLOW DIFFUSOR
NOT TO SCALE

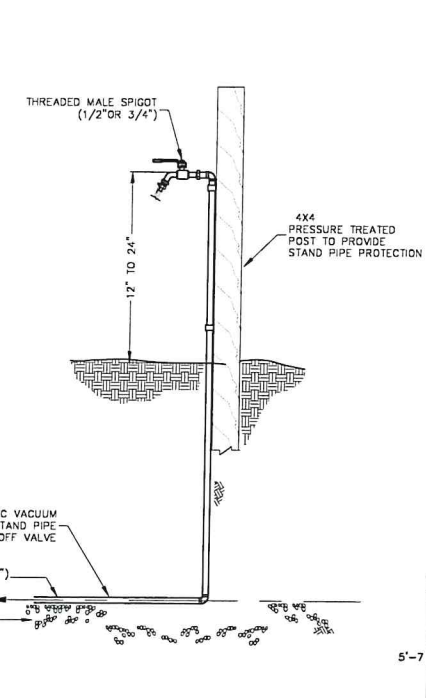


DESIGN NOTES

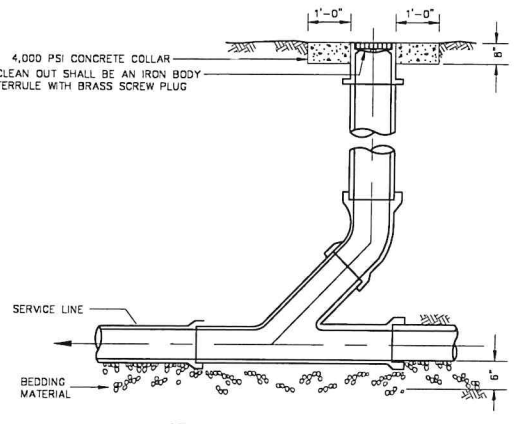
- 1) EIGHT OUTLETS AND THREE INLETS
- 2) INLET AND OUTLETS HAVE STATE APPROVED SEALS THAT ACCEPT 4" S-40, 4" S-35, 3" AND 2" PVC
- 3) REINFORCED WITH #3 BARS
- 4) CONCRETE STRENGTH 4000 PSI MIN. 28 DAYS



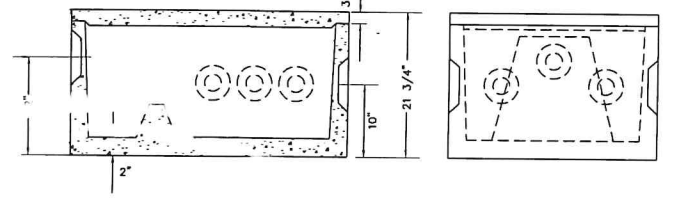
FRAME AND COVER
NOT TO SCALE



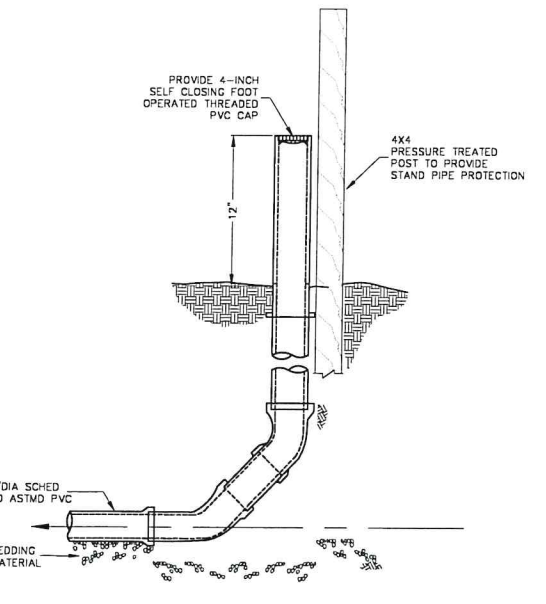
STANDARD CLEAN-OUT DETAIL
NOT TO SCALE



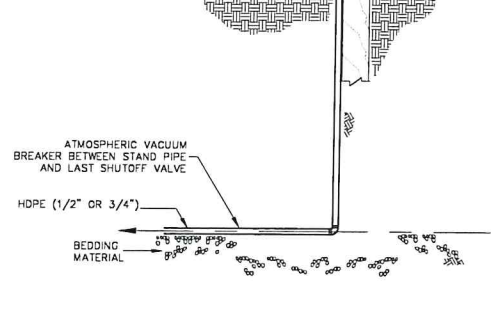
STANDARD D-BOX
NOT TO SCALE



DISTRIBUTION BOX W/ BAFFLE
NOT TO SCALE



CAMP SITE SANITARY SERVICE STAND PIPE DETAIL
NOT TO SCALE



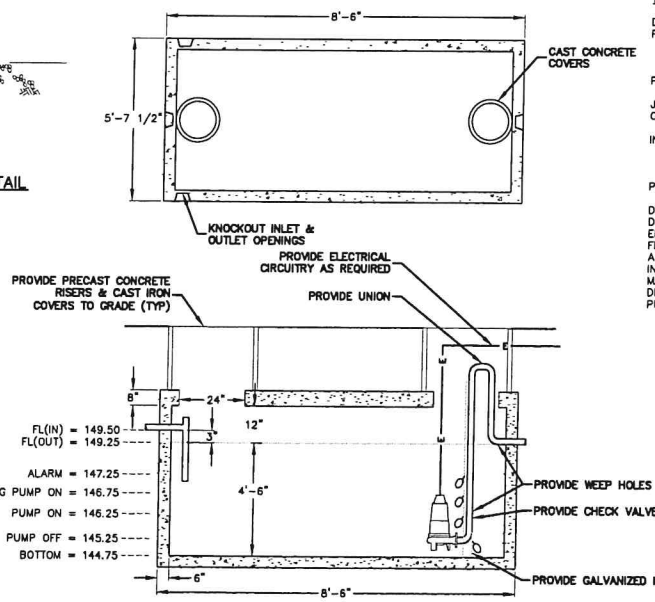
CAMP SITE WATER SERVICE STAND PIPE DETAIL
NOT TO SCALE

SEPTIC SYSTEM FILL MATERIAL SPECIFICATIONS

- 1.) THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THREE(3) INCHES.
- 2.) UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE (THIS IS THE GRAVEL PORTION OF THE SAMPLE).
- 3.) THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED
- 4.) THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA.

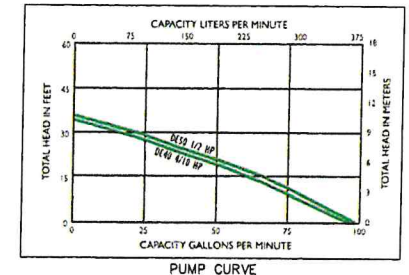
SIEVE SIZE	PERCENT PASSING	
	WET SIEVE	DRY SIEVE
#4	100%	100%
#10	70%-100%	70%-100%
#40	10%-50%	10%-75%
#100	0%-20%	0%-5%
#200	0%-5%	0%-2.5%

NOTE: PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 DOES NOT EXCEED 5%

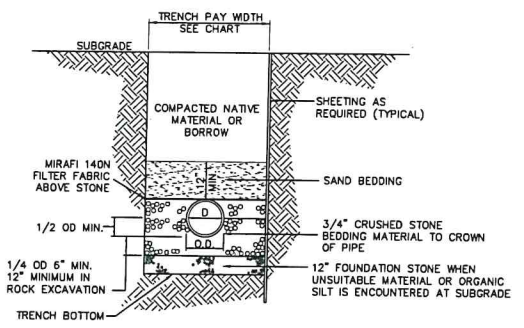


1000 GALLON H-20 RATED PUMP CHAMBER
NOT TO SCALE

BASIS OF DESIGN:
DAILY DESIGN FLOW = ±1,500 GPD (24 SITES AT 62.3 CPD)
PUMP CHAMBER:
DOSE VOLUME = ±250 GALLONS
EMERGENCY STORAGE = 500 GALLONS
PUMP CHAMBER:
JOLLEY PRECAST 1,000 GALLON H₂O LOADING SINGLE COMPARTMENT SEPTIC TANK
CAPACITY PER FOOT OF DEPTH = 4.625x7.5x7.48 = 259.5 GAL./FT.
INSIDE DIMENSIONS OF CHAMBER = 4.625' WIDE X 7.5' LONG X 4.5' HIGH
X 7.48 = 1,167.6 GALLONS
PUMP:
DUPLICEX PUMPS SHALL BE MYERS CONTINUOUS DUTY STAINLESS STEEL PUMP MODEL DE40PC1 2" DISCHARGE ALTERNATING SYSTEM OR EQUAL AS APPROVED BY THE ENGINEER. DISCHARGE LINE SHALL BE INSTALLED WITH 4' OF COVER TO PREVENT FREEZING. ALARM SHALL BE LOCATED IN THE PAVILION BUILDING AND BE POWERED BY A CIRCUIT SEPARATE FROM THE CIRCUIT OF THE PUMP. THE ALARM SHALL BE LOCATED IN AN AREA WHERE IT WILL BE EASILY AUDIBLE. ELECTRICAL CONNECTIONS SHALL BE MADE IN CODE COMPLIANT ACCESS BOXES OUTSIDE OF THE PUMP CHAMBER. PUMP DISCHARGE LINE SHALL BE FITTED WITH UNION TO ALLOW EASY REMOVAL OF THE PUMPS WHEN TANK IS FULL.



PUMP CURVE



TRENCH SECTION FOR SANITARY SEWER
NOT TO SCALE

- CONSTRUCTION SCHEDULE**
- 1.) REMOVE AND STOCKPILE TOPSOIL.
 - 2.) PLACE SELECT FILL ACCORDING TO CT. STATE HEALTH CODE REQUIREMENTS.
 - 3.) EXCAVATE 4" WIDE TRENCHES AND PREPARE SURFACE.
 - 4.) FILL TRENCHES WITH APPROVED AGGREGATE TO HEIGHT OF PIPE INVERTS PLACE PIPE IN TRENCH, AND FILL TO 2" OVER TOP OF PIPE.
 - 5.) CAP ENDS OF PIPES.
 - 6.) PLACE A 4" WIDE STRIP OF NON-WOVEN FILTER FABRIC ON TOP OF THE ENTIRE LENGTH OF THE SYSTEM, AND BACKFILL WITH NATIVE MATERIAL.
 - 7.) REPLACE TOPSOIL, SEED & MULCH.
- CONSTRUCTION NOTES**
- 1.) BOTTOM OF ALL TRENCHES AND LEACHING PIPE SHALL BE LEVEL THROUGHOUT UNDER NO CIRCUMSTANCES SHALL ANY PIPE IN A TRENCH HAVE A PITCH EXCEEDING 1" PER 50'
 - 2.) PIPE BETWEEN THE HOUSE AND THE SEPTIC TANK SHALL BE SCHED. 40 ASTM D 1785 1785 PITCHES PIPE SHALL HAVE A MINIMUM SLOPE OF 0.25" PER 1'
 - 3.) ALL DISTRIBUTION PIPES TO BE 4" PVC OR POLYETHYLENE PIPE AS SPECIFIED IN SEC. 19-13-B103, TABLE 5 OF THE CT. STATE HEALTH CODE.
 - 4.) ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH CT. STATE HEALTH CODE.
 - 5.) ALL TOPSOIL IN THE LOCATION OF THE PROPOSED SYSTEM SHALL BE REMOVED AND STOCKPILED PRIOR TO EXCAVATION.
 - 6.) FILL MATERIAL FOR SEPTIC AREA IS TO BE SELECT FILL PER CT. STATE HEALTH CODE SPECIFICATIONS.
 - 7.) SEPTIC TANKS AND DISTRIBUTION BOXES SHALL BE PLACED ON 6" COMPACTED GRAVEL BASE.
 - 8.) RESERVE LEACHING AREA TO BE OF EQUAL SIZE TO PRIMARY LEACHING AREA.

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East Hartford, CT 06108
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CMA

SITE DEVELOPMENT PLAN
PREPARED FOR
DAVID NOWAKOWSKI
15 KENYON ROAD
LISBON, CONNECTICUT

CONSTRUCTION DETAILS

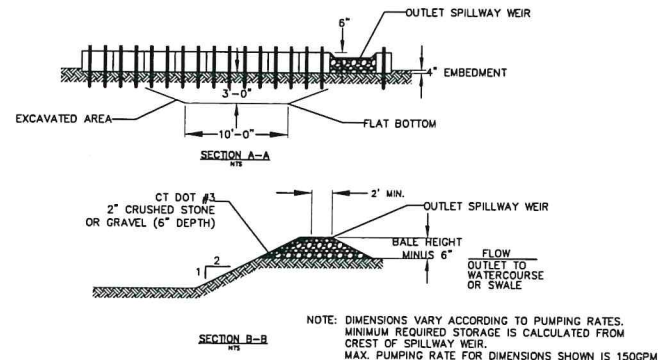
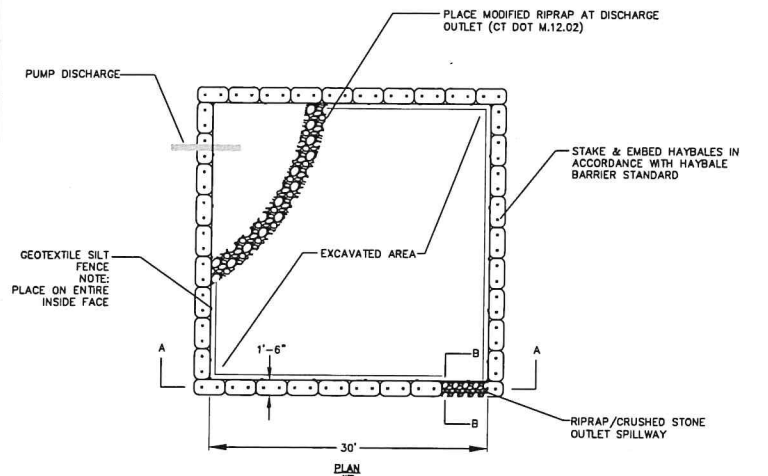
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NO.	DATE	DESCRIPTION	BY
1	02/19/2021	HEALTH COMMENTS	RLC
2	04/02/2021	CT DPH COMMENTS	PMP
3	06/15/2021	CT DPH COMMENTS	RAC

PROJECT: 2019160
BOOK NO. 192
DESIGNED: KLD/PMP
DRAWN: ZBC/RAC
CHECKED: KLD
CADD FILE: 2019160.ALL
FILE: 2019160_STP.dwg

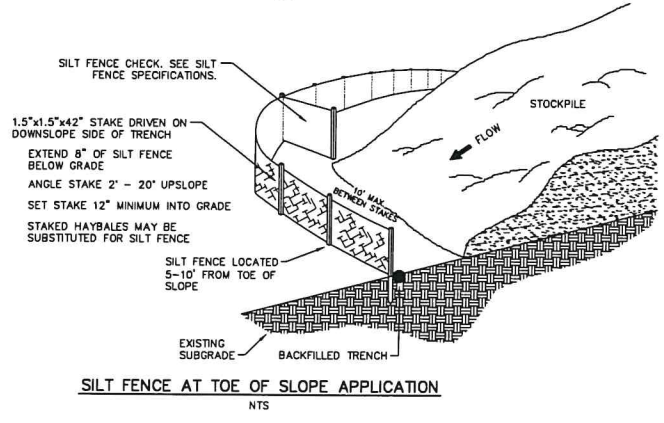
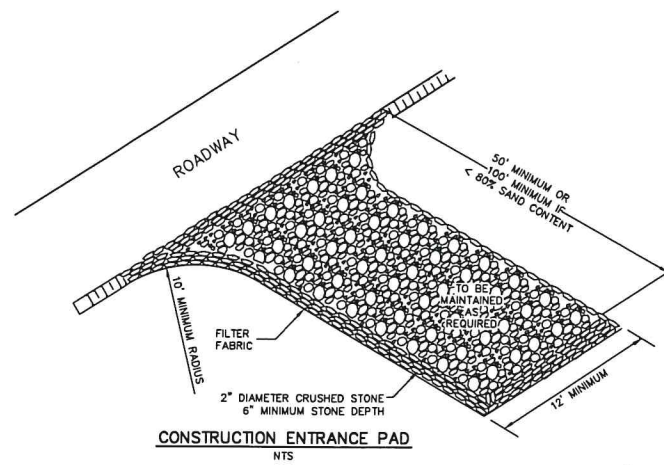
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SCALE: 1" = 40'
PROJECT: #2019160

SHEET
8 OF 11

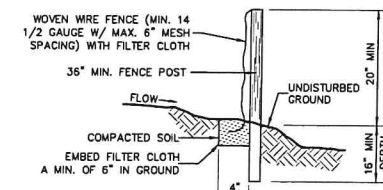
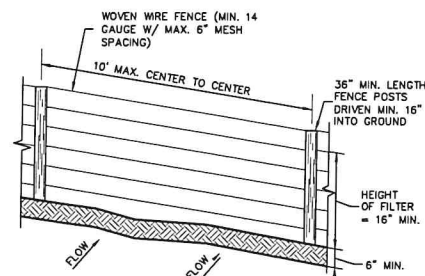
EROSION AND SEDIMENTATION CONTROL DETAILS



DEWATERING SETTLING BASIN
NTS

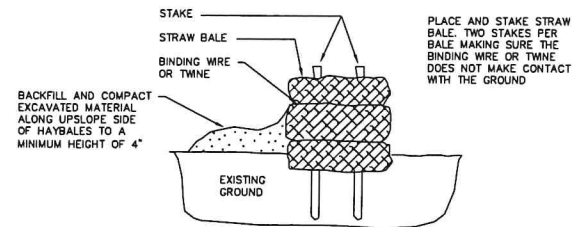


SILT FENCE

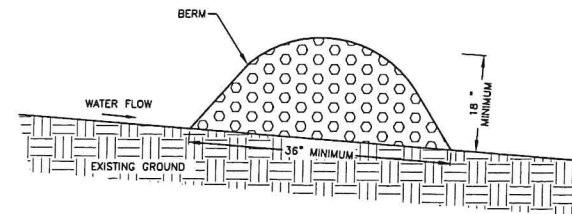


CONSTRUCTION SPECIFICATIONS

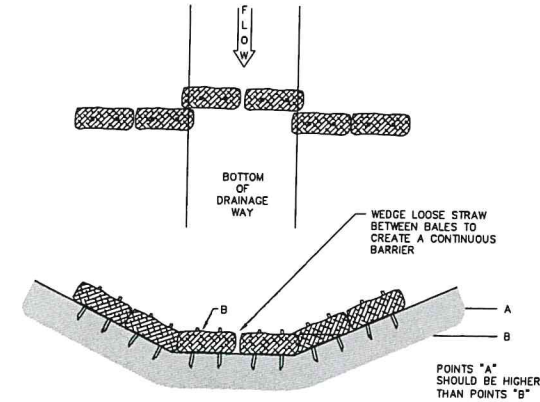
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION, FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED, FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
- PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.



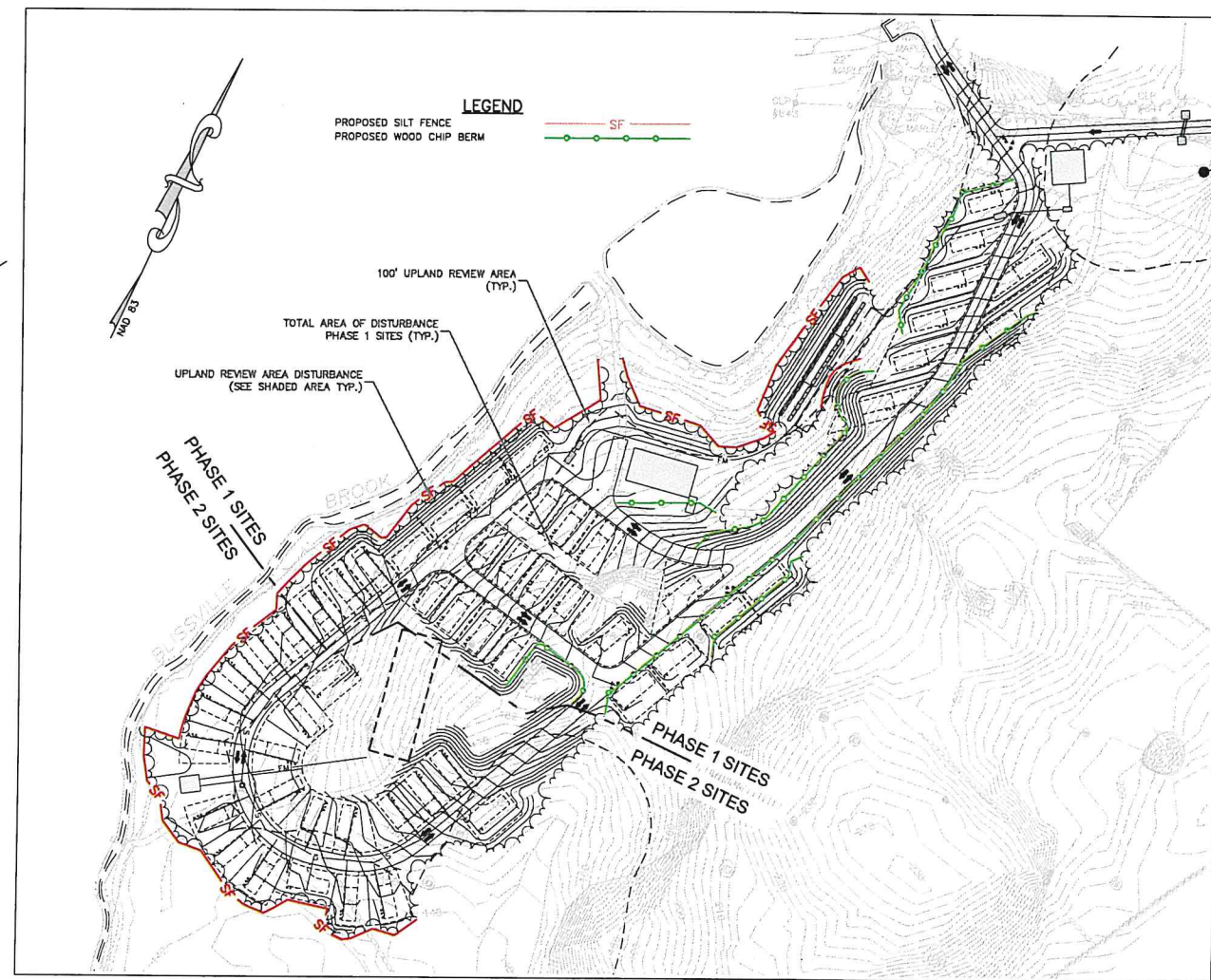
PLACEMENT AND CONSTRUCTION OF A STRAW BALE BARRIER
NTS



WOOD CHIP BERM DETAIL
NTS



PLACEMENT OF A STRAW BALE BARRIER
NTS



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SITE DEVELOPMENT PLAN
PREPARED FOR
DAVID NOWAKOWSKI
15 KENYON ROAD
LISBON, CONNECTICUT

EROSION AND SEDIMENTATION CONTROL DETAILS

REVISIONS		JOB DATA	
NO.	DATE	DESCRIPTION	BY
1	02/10/2021	HEALTH COMMENTS	RAC
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3	05/15/2021	CT DPH COMMENTS	RAC

PROJECT	2019160
BOOK NO.	192
DESIGNED	KLD/PMP
DRAWN	ZBC/RAC
CHECKED	KLD
LOGO FILE	2019160 ALL
FILE	2019160 STP.dwg

DATE: 11/20/2020

SCALE: 1" = 20'

PROJECT: #2019160

SHEET
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