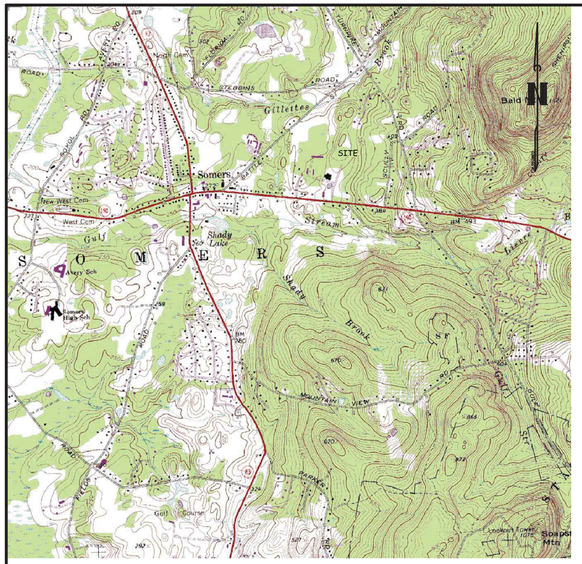


LOCATION MAP
SCALE: 1"= 2000'

SITE PLAN
ELEANOR ROAD
SOAPSTONE ESTATES
PREPARED FOR
GINGRAS DEVELOPMENT, LLC
SOMERS, CONNECTICUT

REFERENCE MADE TO THE FOLLOWING MAPS:

1. 'SOAPSTONE ESTATES SITE PLAN / SPECIAL USE PERMIT ELEANOR ROAD SOMERS, CONNECTICUT' BY DESIGN PROFESSIONALS SOUTH WINSOR, CT, DATE: 9/12/06, REV. THROUGH 6/06/07, SHEETS 1 THROUGH 12.

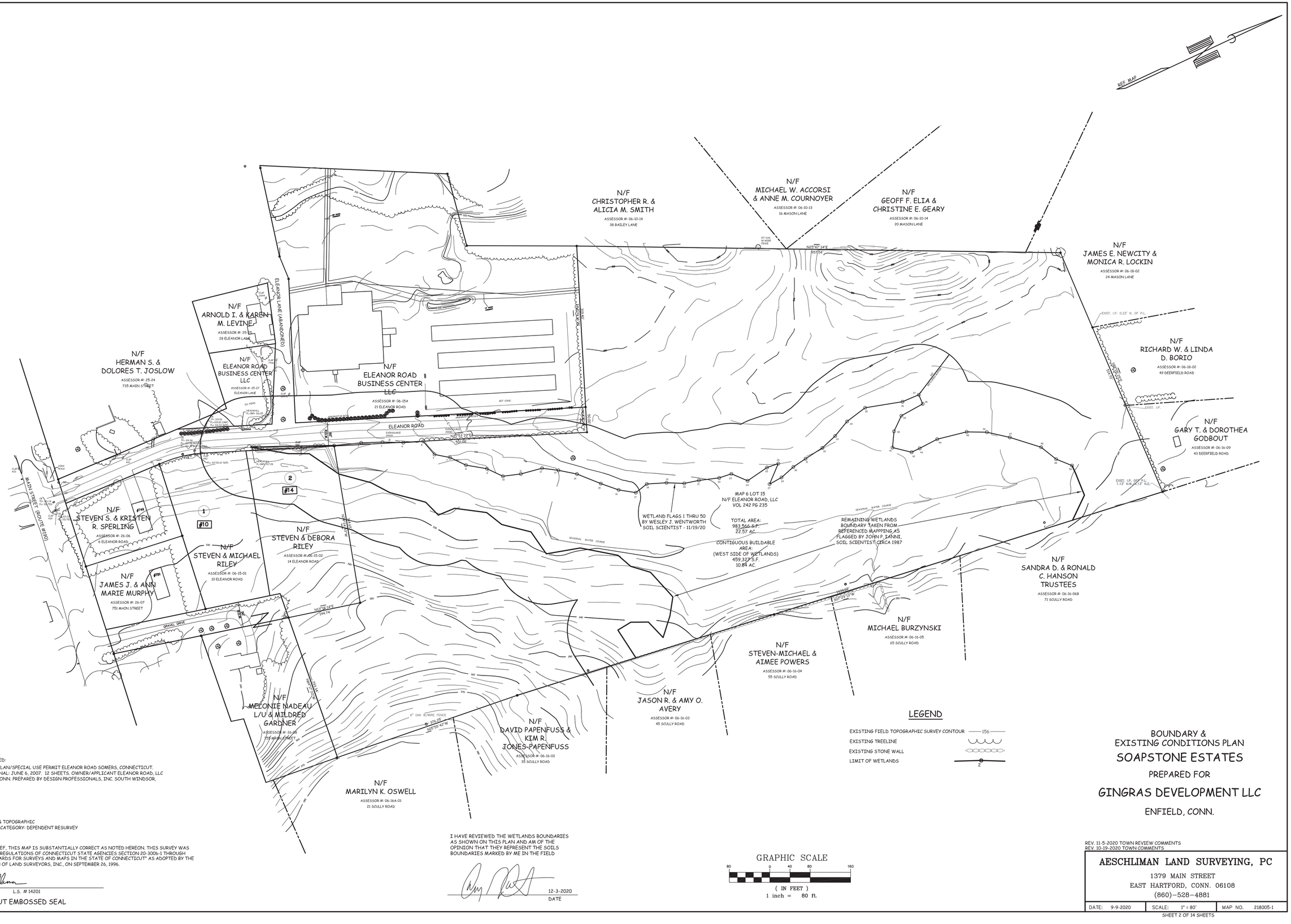
INDEX TO SHEETS

WENTWORTH CIVIL ENGINEERS LLC
177 WEST TOWN ST.
LEBANON, CT 06249
TEL (860) 642-7255
FAX (860) 642-4794
web: wentworthcivil.com

AESCHLIMAN LAND SURVEYING, PC
1379 MAIN STREET
EAST HARTFORD, CONN. 06108
(860)-528-4881

REV. 11-05-20 TOWN REVIEW COMMENTS
REV. 10-19-20 TOWN REVIEW COMMENTS

DATE: 9-09-20
SCALE: SHOWN
SHEET 1 OF 14
MAP NO. 20-022-1C



REFERENCE MADE TO MAP TITLED:
"SOAPSTONE ESTATES SITE PLAN/SPECIAL USE PERMIT ELEANOR ROAD SOMERS, CONNECTICUT. DATE: SEPTEMBER 12, 2006. FINAL: JUNE 6, 2007. 12 SHEETS. OWNER/APPLICANT ELEANOR ROAD, LLC 23 ELEANOR ROAD SOMERS, CONN. PREPARED BY DESIGN PROFESSIONALS, INC. SOUTH WINDSOR, CONN."

TYPE OF SURVEY: BOUNDARY & TOPOGRAPHIC
BOUNDARY DETERMINATION CATEGORY: DEPENDENT RESURVEY
CLASS OF ACCURACY: A-2, T-2

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS SURVEY WAS PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTION 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC., ON SEPTEMBER 26, 1996.

SANDS E. AESCHLIMAN L.S. # 14201

NOT VALID WITHOUT EMBOSSED SEAL

I HAVE REVIEWED THE WETLANDS BOUNDARIES AS SHOWN ON THIS PLAN AND AM OF THE OPINION THAT THEY REPRESENT THE SOILS BOUNDARIES MARKED BY ME IN THE FIELD

12-3-2020
DATE

BOUNDARY & EXISTING CONDITIONS PLAN
SOAPSTONE ESTATES
PREPARED FOR
GINGRAS DEVELOPMENT LLC
ENFIELD, CONN.

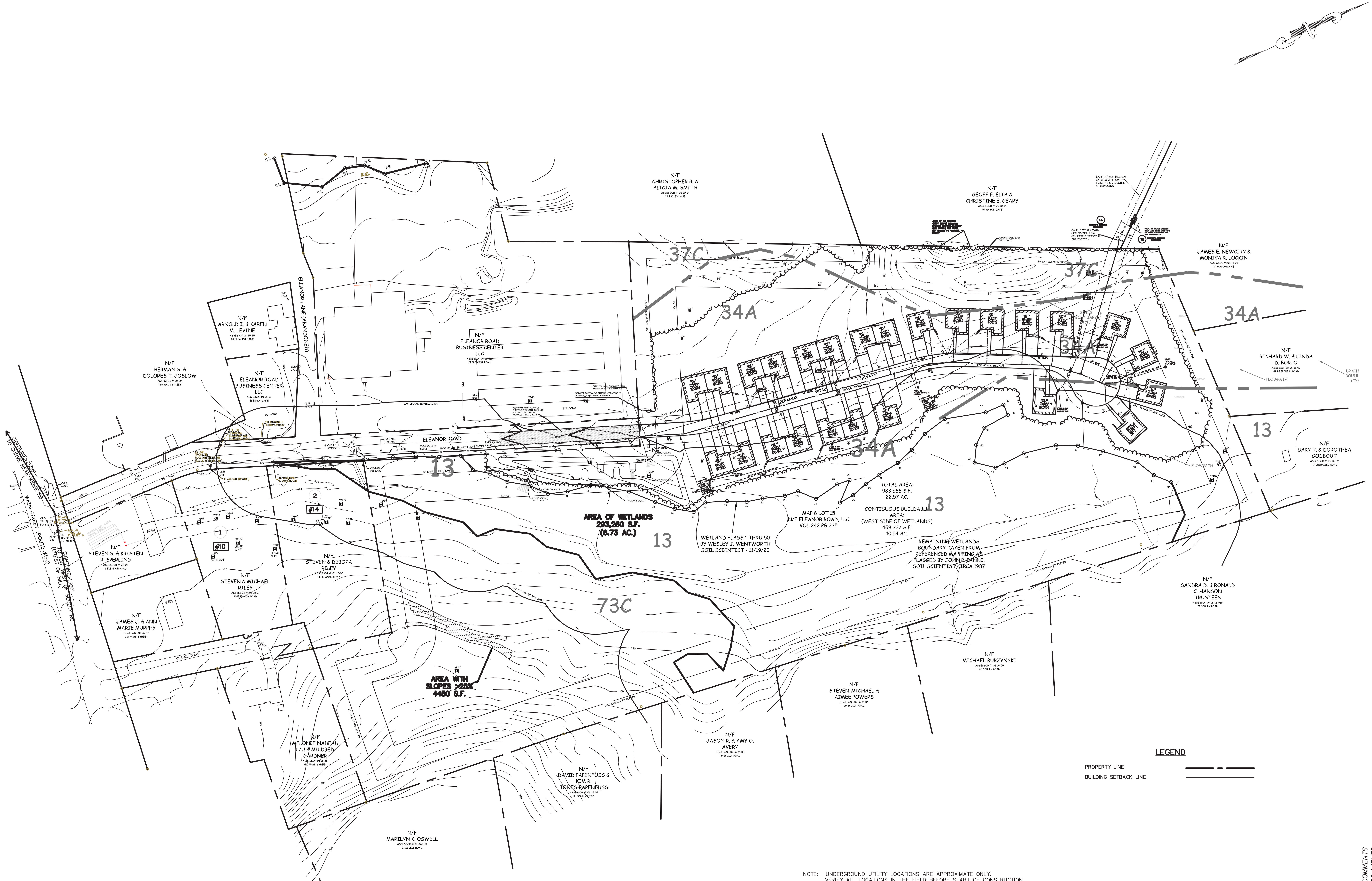
REV. 11-5-2020 TOWN REVIEW COMMENTS
REV. 10-19-2020 TOWN COMMENTS

AESCHLIMAN LAND SURVEYING, PC
1379 MAIN STREET
EAST HARTFORD, CONN. 06108
(860)-528-4881

DATE: 9-9-2020	SCALE: 1" = 80'	MAP NO. 218005-1

SHEET 2 OF 14 SHEETS

G:\2018 PROJECTS\218005\dwg\SHEETS\218005-PP2.dwg, 12/7/2020 10:34:26 PM, EST


N/F
CHRISTOPHER R. &
ALICIA M. SMITH
N/F
GEOFF F. ELIA &
CHRISTINE E. GEARY
N/F
JAMES E. NEWCITY &
MONICA R. LOCKIN
N/F
ARNOLD I. & KAREN
M. LEVINE
ELEANOR LANE (ABANDONED)
N/F
ELEANOR ROAD
BUSINESS CENTER
LLC
N/F
HERMAN S. &
DOLORES T. JOSLOW
N/F
ELEANOR ROAD
BUSINESS CENTER
LLC
N/F
RICHARD W. & LINDA
D. BORIO
DRAIN
BOUND
(TYP
FLOWPATH
N/F
GARY T. & DOROTHEA
GODBOUT
37C
34A
13
73C
ELEANOR ROAD
MAIN STREET (ROUTE #190)
AREA OF WETLANDS
293,260 S.F.
(6.73 AC.)
WETLAND FLAGS 1 THRU 50
BY WESLEY J. WENTWORTH
SOIL SCIENTIST - 11/19/20
MAP 6 LOT 15
N/F ELEANOR ROAD, LLC
VOL 242 PG 235
TOTAL AREA:
983,566 S.F.
22.57 AC.
CONTIGUOUS BUILDABLE
AREA:
(WEST SIDE OF WETLANDS)
459,327 S.F.
10.54 AC.
REMAINING WETLANDS
BOUNDARY TAKEN FROM
REFERENCED MAPPING AS
FLAGGED BY JOHN P. IANNI,
SOIL SCIENTIST CIRCA 1987
N/F
STEVEN S. & KRISTEN
R. SPERLING
N/F
STEVEN & MICHAEL
RILEY
N/F
STEVEN & DEBORA
RILEY
N/F
JAMES J. & ANN
MARIE MURPHY
AREA WITH
SLOPES >25%
4450 S.F.
N/F
SANDRA D. & RONALD
C. HANSON
TRUSTEES
N/F
MICHAEL BURZYNSKI
N/F
STEVEN-MICHAEL &
AIMEE POWERS
N/F
JASON R. & AMY O.
AVERY
N/F
MELONIE NADEAU
L/U & MILDRED
GARDNER
N/F
DAVID PAPENFUSS &
KIM R.
JONES-PAPENFUSS
N/F
MARILYN K. OSWELL
LEGEND
PROPERTY LINE
BUILDING SETBACK LINE

I HAVE REVIEWED THE WETLAND BOUNDARIES AS SHOWN ON THIS PLAN AND AM OF THE OPINION THAT THEY REPRESENT THE SOIL BOUNDARIES MARKED BY ME IN THE FIELD

WESLEY J. WENTWORTH
SOIL SCIENTIST

NOTE: UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE ONLY. VERIFY ALL LOCATIONS IN THE FIELD BEFORE START OF CONSTRUCTION. (SEE NOTE BELOW)

WARNING: THESE PLANS NOT TO BE USED FOR LOCATION OF UNDERGROUND UTILITIES. CALL BEFORE YOU DIG 1-800-922-4455 TWO WORKING DAYS BEFORE YOU DIG.

GRAPHIC SCALE

80 0 40 80 160

(IN FEET)
1 inch = 80 ft.

REV. 11-05-20 TOWN REVIEW COMMENTS
REV. 10-19-20 TOWN REVIEW COMMENTS

I HEREBY DECLARE TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS PLAN IS SUBSTANTIALLY CORRECT.

WESLEY J. WENTWORTH P.E. # 20360

WENTWORTH CIVIL ENGINEERS LLC
177 WEST TOWN ST.
LEBANON, CT 06249
TEL. (860) 642-7255
FAX (860) 642-4794
web: wentworthcivil.com

OVERALL TOPOGRAPHIC MAP
SOAPSTONE ESTATES
ELEANOR ROAD
PREPARED FOR
GINGRAS DEVELOPMENT, LLC
SOMERS, CONNECTICUT

DATE: 9-09-20
SCALE: 1"=80'
SHEET 3 OF 14
MAP NO. 20-022-10A

N/F
CHRISTOPHER R. &
ALICIA M. SMITH

ASSESSOR #: 06-10-14
38 BAILEY LANE

N/F
MICHAEL W. ACCORSI
& ANNE M. COURNOYER

ASSESSOR #: 06-10-13
16 MASON LANE

N/F
GEOFF F. ELIA &
CHRISTINE E. GEARY

ASSESSOR #: 06-10-14
20 MASON LANE

SEE MAP

EXIST. 30' WATER EASEMENT OVER
LOTS 14/15 GILLETTE'S CROSSING
SUBDIVISION

30' TREE W/WIRE FENCE

N/F
JAMES E. NEWCITY &
MONICA R. LOCKIN

ASSESSOR #: 06-18-02
24 MASON LANE

N25°47'34"E
957.54'

30' LANDSCAPE BUFFER

30' LANDSCAPE BUFFER

30' LANDSCAPE BUFFER

80' S.Y.

112.7'

80' F.Y.

PROP. 30'
WATER MAIN
EASEMENT

30'

80' R.Y.

80.2'

N/F
ELEANOR ROAD
BUSINESS CENTER
LLC

ASSESSOR #: 06-15A
21 ELEANOR ROAD

N68°10'16"W
319.60'

80.4'

FREE STANDING ENTRANCE SIGN
SEE ARCHITECTURAL DETAILS

PROPOSED ROADWAY MAINTENANCE EASEMENT
IN FAVOR OF THE TOWN OF SOMERS

15'WX20' DEEP PAVED
HAMMERHEAD TURNAROUND
FOR TOWN VEHICLE USE

PROP. BIT. CONC. CURB (TYP.)

PROP.
DRIVE
(TYP.)

ELEANOR ROAD (PRIVATE)

50'

PROP. 50'
ACCESS AND UTILITY
EASEMENT

100'
WETLANDS BUFFER

UNIT 1 #21
UNIT 2 #22
UNIT 3 #23
UNIT 4 #24
UNIT 5 #25
UNIT 6 #26
UNIT 7 #27
UNIT 8 #28
UNIT 9 #29
UNIT 10 #30
UNIT 11 #31
UNIT 12 #32
UNIT 13 #33
UNIT 14 #34
UNIT 15 #35
UNIT 16 #36
UNIT 17 #37
UNIT 18 #38
UNIT 19 #42
UNIT 20 #41
UNIT 21 #40
UNIT 22 #39
UNIT 23 #44
UNIT 24 #43
UNIT 25 #45

N 920675.96
E 1086517.28
EX. IP (334.66)

S88°02'25"E
314.72'

30' LANDSCAPE BUFFER

N/F
RICHARD W. & LINDA
D. BORIO

ASSESSOR #: 06-18-02
49 DEERFIELD ROAD

N/F
GARY T. & DOROTHEA
GODBOUT

ASSESSOR #: 06-16-09
43 DEERFIELD ROAD

SEASONAL WATER COURSE

80' R.Y.

30' LANDSCAPE BUFFER

N/F
SANDRA D. & RONALD C.
HANSON TRUSTEES

ASSESSOR #: 06-16-06B
71 SCULLY ROAD

N/F
MICHAEL BURZYNSKI

ASSESSOR #: 06-16-05
65 SCULLY ROAD

133.07'
S01°29'13"W

ZONING DATA

ZONE: A-1 (RESIDENTIAL) USE: DETACHED HOUSING DEVELOPMENT (DHD)

MIN. PARCEL	20 AC.	22.57 AC. / 983,567 S.F.
MIN. CONTIGUOUS BUILDABLE AREA	10 AC.	10.54 AC. / 459,382 S.F.
TOTAL BUILDABLE AREA		15.74 AC. / 685,869 S.F.
MIN. PARCEL FRONTAGE	100'	501.08'
MIN. OPEN SPACE *	4.72 AC.	5.55 AC. /241,682 S.F.
FRONT YARD	80'	80.42' (Unit 1)
SIDE YARD	80'	112.65' (Unit 10)
REAR YARD	80'	81.44' (Unit 15)
BUFFER	30'	30'
MAX. UNITS **	42 **	25
MAX. STORIES/HEIGHT	1.5 STORIES/35'	1.5 STORIES / 20.5'
MIN FLOOR AREA	900 S.F.	1,295 S.F.
PARKING SPACES ***	75 SPACES	100 SPACES

*COMMON OPEN SPACE
30% OF BUILDABLE AREA
685,869 S.F., x 30% = 205,761 S.F.= 4.72 AC.

**DENSITY CALCULATIONS
4 UNITS PER BUILDABLE ACRE
4 x10.54 AC.= 42.16 UNITS

***PARKING CALCULATIONS
3.0 SPACES PER UNIT
EACH UNIT HAS A 2 CAR GARAGE + 2 SPACES IN DRIVEWAY
TOTAL PROVIDED: 25 UNITS x 4 SPACES = 100 SPACES

LEGEND

LIMIT OF WETLANDS (FROM DESIGN PROFESSIONALS REFERENCED MAP) — WF 2

LIMIT OF WETLANDS (DELINEATED NOV. 2020) — 2 (WJW)

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS SURVEY WAS PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTION 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC., ON SEPTEMBER 26, 1996.

SANDS E. AESCHLIMAN L.S. # 14201

NOT VALID WITHOUT EMBOSSED SEAL

SITE LAYOUT PLAN
SOAPSTONE ESTATES
PREPARED FOR
GINGRAS DEVELOPMENT LLC
SOMERS, CONN.

REV. 11-5-2020 TOWN REVIEW COMMENTS
REV. 10-19-2020 TOWN COMMENTS

AESCHLIMAN LAND SURVEYING, PC
1379 MAIN STREET
EAST HARTFORD, CONN. 06108
(860)-528-4881

DATE: 9-9-2020	SCALE: 1" = 40'	MAP NO. 218005-1

SHEET 4 OF 14 SHEETS

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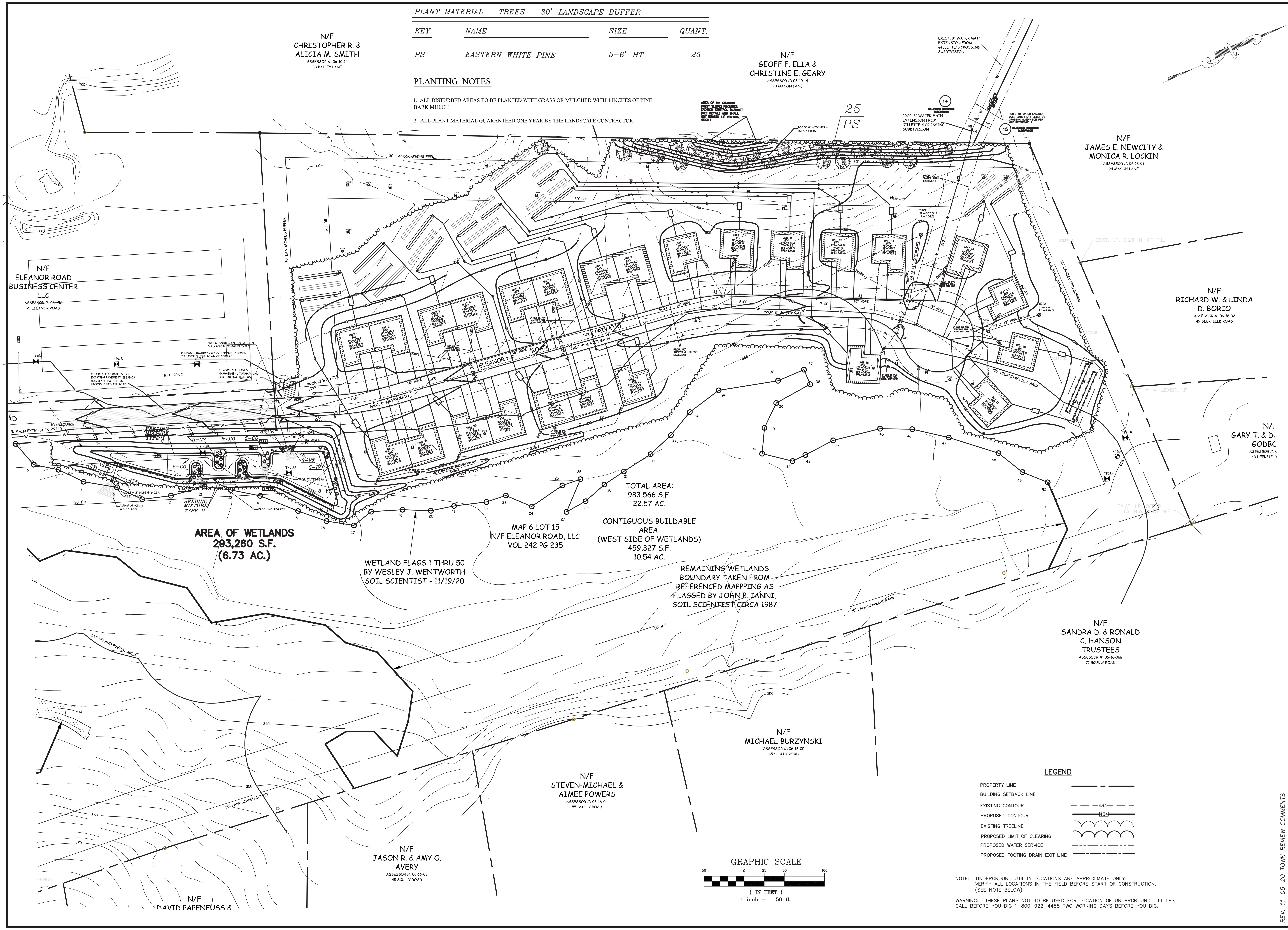
PLANT MATERIAL – TREES – 30' LANDSCAPE BUFFER
KEY NAME SIZE QUANT.
PS EASTERN WHITE PINE 5-6' HT. 25
PLANTING NOTES
1. ALL DISTURBED AREAS TO BE PLANTED WITH GRASS OR MULCHED WITH 4 INCHES OF PINE BARK MULCH
2. ALL PLANT MATERIAL GUARANTEED ONE YEAR BY THE LANDSCAPE CONTRACTOR.
N/F CHRISTOPHER R. & ALICIA M. SMITH
N/F GEOFF F. ELIA & CHRISTINE E. GEARY
N/F JAMES E. NEWCITY & MONICA R. LOCKIN
N/F ELEANOR ROAD BUSINESS CENTER LLC
N/F RICHARD W. & LINDA D. BORIO
25 PS
30' LANDSCAPED BUFFER
ELEANOR ROAD (PRIVATE)
PROP. 8" WATER MAIN
AREA OF WETLANDS 293,260 S.F. (6.73 AC.)
TOTAL AREA: 983,566 S.F. 22.57 AC.
CONTIGUOUS BUILDABLE AREA: (WEST SIDE OF WETLANDS) 459,327 S.F. 10.54 AC.
MAP 6 LOT 15 N/F ELEANOR ROAD, LLC VOL 242 PG 235
WETLAND FLAGS 1 THRU 50 BY WESLEY J. WENTWORTH SOIL SCIENTIST - 11/19/20
REMAINING WETLANDS BOUNDARY TAKEN FROM REFERENCED MAPPPING AS FLAGGED BY JOHN P. IANNI, SOIL SCIENTIST CIRCA 1987
SEEDING MIXTURE TYPE II
100' UPLAND REVIEW AREA
N/F SANDRA D. & RONALD C. HANSON TRUSTEES
N/F MICHAEL BURZYNSKI
N/F STEVEN-MICHAEL & AIMEE POWERS
N/F JASON R. & AMY O. AVERY
N/F DAVID PAPENFUSS &
LEGEND
PROPERTY LINE
BUILDING SETBACK LINE
EXISTING CONTOUR
PROPOSED CONTOUR
EXISTING TREELINE
PROPOSED LIMIT OF CLEARING
PROPOSED WATER SERVICE
PROPOSED FOOTING DRAIN EXIT LINE
GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.
NOTE: UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE ONLY. VERIFY ALL LOCATIONS IN THE FIELD BEFORE START OF CONSTRUCTION. (SEE NOTE BELOW)
WARNING: THESE PLANS NOT TO BE USED FOR LOCATION OF UNDERGROUND UTILITIES. CALL BEFORE YOU DIG 1-800-922-4455 TWO WORKING DAYS BEFORE YOU DIG.

I HEREBY DECLARE TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS PLAN IS SUBSTANTIALLY CORRECT.

WESLEY J. WENTWORTH P.E. # 20360

WENTWORTH CIVIL ENGINEERS LLC
177 WEST TOWN ST.
LEBANON, CT 06249
TEL (860) 642-7255
FAX (860) 642-4794
web: wentworthcivil.com

GENERAL SITE DEVELOPMENT PLAN

SOAPSTONE ESTATES

ELEANOR ROAD

PREPARED FOR

GINGRAS DEVELOPMENT, LLC

SOMERS, CONNECTICUT

REV. 10-19-20 TOWN REVIEW COMMENTS
REV. 11-05-20 TOWN REVIEW COMMENTS

DATE: 9-09-20
SCALE: 1"=50'
SHEET 5 OF 14
MAP NO. 20-022-1GS

30' LANDSCAPED BUFFER

80' F.Y.

30' LANDSCAPED BUFFER

80' S.Y.

ELEANOR ROAD (PRIVATE)

PROP. 8" WATER MAIN

PROP. LIGHT POLE (TYP.)

PROP. FILTER BERM

PROP. 50' ACCESS & UTILIT EASEMENT

RIPRAP APRON W=15' L=10'

UNDERDRAIN

SEE SHEET 7

CB1
STA 0+02 RT
TF=333.48
INV=324.5 (18")
INV=330.0 (12")

CB2
STA 0+02 LT
TF=333.48
INV=330.22 (12")

CB3
STA 2+50 LT
TF=335.93
INV=326.08(18")
INV=328.58(12")
FL=328.2(4" FTG DRAINS-MIN. ELEV.)

CB4
STA 2+50 RT
TF=335.93
INV=326.08 (18")
INV=328.58 (12")

CB5
STA 3+65 LT
TF=338.23
INV=326.66 (18")
INV=330.58 (12")
FL=328.8(4" FTG DRAINS-MIN. ELEV.)

CB6
STA 3+65 RT
TF=338.23
INV=330.80 (12")

LEGEND

- PROPERTY LINE
- BUILDING SETBACK LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING TREELINE
- PROPOSED LIMIT OF CLEARING
- PROPOSED WATER SERVICE
- PROPOSED FOOTING DRAIN EXIT LINE

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

NOTE: UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE ONLY. VERIFY ALL LOCATIONS IN THE FIELD BEFORE START OF CONSTRUCTION. (SEE NOTE BELOW)

WARNING: THESE PLANS NOT TO BE USED FOR LOCATION OF UNDERGROUND UTILITIES. CALL BEFORE YOU DIG 1-800-922-4455 TWO WORKING DAYS BEFORE YOU DIG.

I HEREBY DECLARE TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS PLAN IS SUBSTANTIALLY CORRECT.

WESLEY J. WENTWORTH P.E. # 20360

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LEBANON, CT 06249
TEL. (860) 642-7255
FAX (860) 642-4794
web: wentworthcivil.com

SITE GRADING AND SEPTIC SYSTEM DESIGN PLAN

SOAPSTONE ESTATES

ELEANOR ROAD

PREPARED FOR

GINGRAS DEVELOPMENT, LLC

SOMERS, CONNECTICUT

REV. 11-05-20 TOWN REVIEW COMMENTS
REV. 10-19-20 TOWN REVIEW COMMENTS

DATE:	9-09-20
SCALE:	1"=20'
SHEET	6 OF 14
MAP NO.	20-022-1G

30' LANDSCAPED BUFFER

PROP. 30' WATER MAIN EASEMENT

PROP. 8" WATER MAIN

30' LANDSCAPED BUFFER

100' UPLAND REVIEW AREA

LIMITS OF SELECT FILL MATERIAL

SEE SHEET 6

SEE SHEET 8

PROP. 50' ACCESS & UTILITY EASEMENT

PROP. SIGN "NO PARKING ON STREET" NUMBER AND LOCATION OF SIGNS TO BE DETERMINED BY FIRE MARSHAL

UNIT 9 #47 FFL=344.6 TF=343.6 GFL=342.6 BFL=336.1

UNIT 10 #49 FFL=343.9 TF=342.9 GFL=341.9 BFL=335.4 346

UNIT 11 #51 FFL=343.3 TF=342.3 GFL=341.3 BFL=334.8

UNIT 12 #53 FFL=342.9 TF=341.9 GFL=340.9 BFL=334.4

UNIT 13 #55 FFL=341.7 TF=340.7 GFL=339.7 BFL=333.2

UNIT 14 #57 FFL=342.2 TF=341.2 GFL=340.2 BFL=333.7

UNIT 15 #59 FFL=342.8 TF=341.8 GFL=340.8 BFL=334.3

UNIT 16 #50 FFL=342.8 TF=341.8 GFL=340.8 BFL=334.3

UNIT 17 #48 FFL=342.8 TF=341.8 GFL=340.8 BFL=334.3

UNIT 18 #46 FFL=342.9 TF=341.9 GFL=340.9 BFL=334.4

1,000 GALLON SEPTIC TANK OUT=337.0 IN=337.25 TOP=338.0

1,000 GALLON SEPTIC TANK OUT=337.5 IN=337.75 TOP=338.5

1,000 GALLON SEPTIC TANK OUT=338.6 IN=338.85 TOP=339.6

1,000 GALLON SEPTIC TANK OUT=338.5 IN=338.75 TOP=339.5

1,000 GALLON SEPTIC TANK OUT=336.75 IN=337.0 TOP=337.75

B-1 R=23', USE EL: 332

B-2 R=12', EL: 336

TP201 TP202 TP7X TP8X TP9X TP10X TP14X TP15X PT4X PT5X PT8X

DB 16 OUT=337.15 IN=337.3

DB 16 OUT=336.7 IN=336.85

DB 16 OUT=337.9 IN=338.05

DB 17 OUT=338.0 IN=338.15

YD21 TF=337.5 FL=334.5

YD23 TF=337.0 FL=334.0

STM MH10

CB7
STA 5+75 LT
TF=340.62
INV=328.67 (18")
FL=330.8(4" FTG DRAINS–MIN. ELEV.)

CB8
STA 8+00–21' RT
TF=337.55
INV=330.30(15")
FL=332.7(6" FTG DRAINS–MIN. ELEV.)

CB9
STA 8+00–23' LT
DBL – TYPE II
TF=337.55
INV=329.83(18")
INV=330.08(15")
INV=330.33(12"NE)
INV=334.0(12" NW)
FL=331.9(4" FTG DRAINS–MIN. ELEV.)

STM MH 10
STA: 8+96'–40' LT
TF: 340.4
INV(18"): 330.34
INV(12"): 333.33
FL=332.7(4" FTG DRAINS–MIN. ELEV.)

YD21
TF=337.5
FL=334.5

YD22
TF=337.0
FL=334.0

NOTE: UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE ONLY. VERIFY ALL LOCATIONS IN THE FIELD BEFORE START OF CONSTRUCTION. (SEE NOTE BELOW)

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GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20 ft.

LEGEND
- PROPERTY LINE
- BUILDING SETBACK LINE
- EXISTING CONTOUR 434
- PROPOSED CONTOUR 434
- EXISTING TREELINE
- PROPOSED LIMIT OF CLEARING
- PROPOSED WATER SERVICE
- PROPOSED FOOTING DRAIN EXIT LINE

I HEREBY DECLARE TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS PLAN IS SUBSTANTIALLY CORRECT.
WESLEY J. WENTWORTH P.E. # 20360

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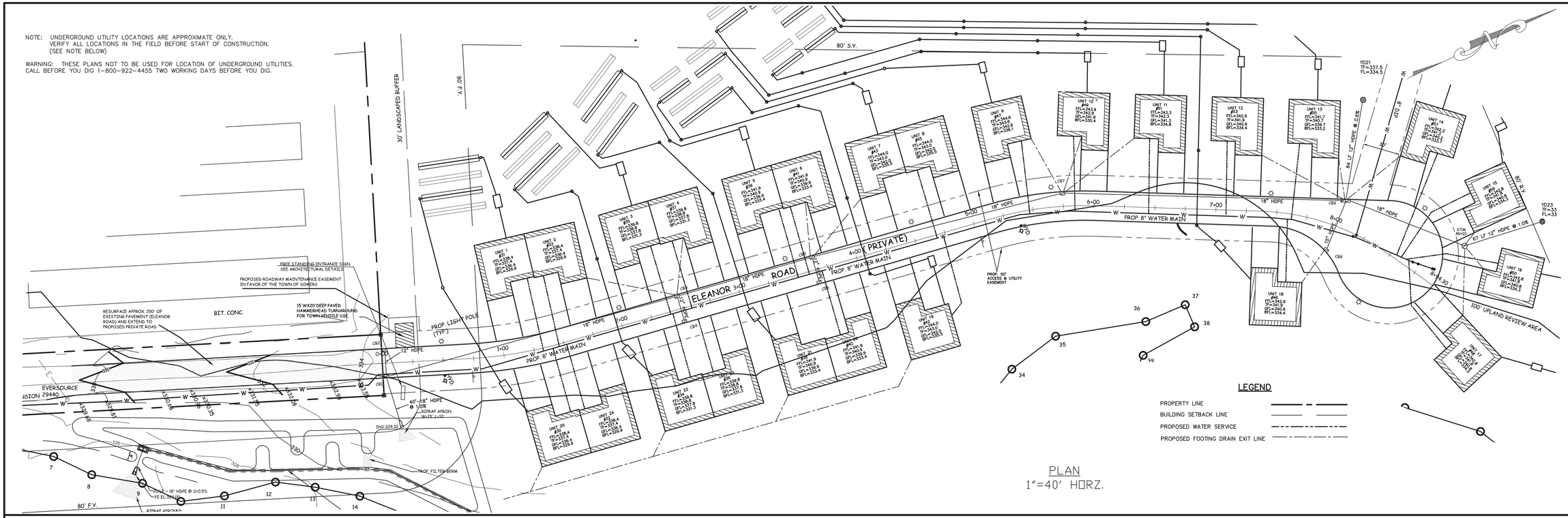
SITE GRADING AND SEPTIC SYSTEM DESIGN PLAN
SOAPSTONE ESTATES
ELEANOR ROAD
PREPARED FOR
GINGRAS DEVELOPMENT, LLC
SOMERS, CONNECTICUT

REV 11-05-20 TOWN REVIEW COMMENTS
REV 10-19-20 TOWN REVIEW COMMENTS

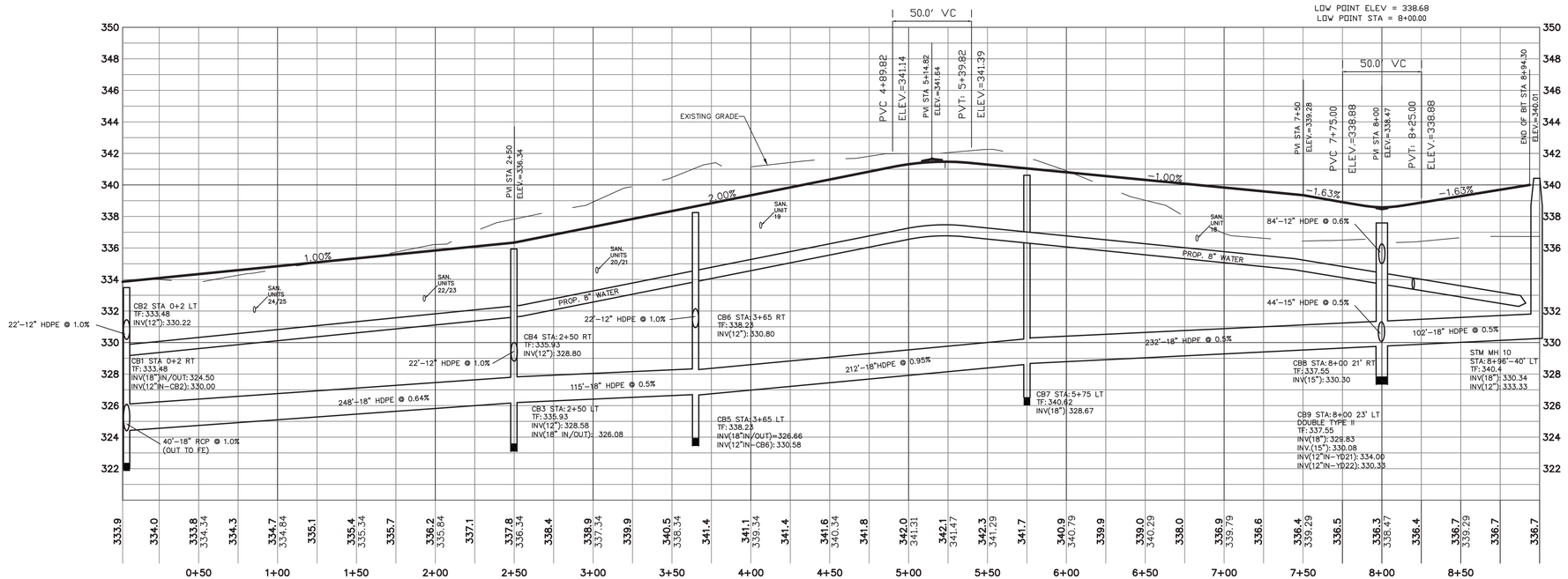
DATE: 9-09-20
SCALE: 1"=20'
SHEET 7 OF 14
MAP NO. 20-022-1G

NOTE: UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE ONLY.
VERIFY ALL LOCATIONS IN THE FIELD BEFORE START OF CONSTRUCTION.
(SEE NOTE BELOW)

WARNING: THESE PLANS NOT TO BE USED FOR LOCATION OF UNDERGROUND UTILITIES.
CALL BEFORE YOU DIG 1-800-922-4455 TWO WORKING DAYS BEFORE YOU DIG.



PLAN
1"=40' HORZ.



SCALE:
1"=40' HORZ.
1"=4' VERT.

REV. 11-05-20 TOWN REVIEW COMMENTS
REV. 10-19-20 TOWN REVIEW COMMENTS

I HEREBY DECLARE TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS PLAN IS SUBSTANTIALLY CORRECT.

WESLEY J. WENTWORTH P.E. # 20360

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ROADWAY PLAN & PROFILE
SOAPSTONE ESTATES
ELEANOR ROAD
PREPARED FOR
GINGRAS DEVELOPMENT, LLC
SOMERS, CONNECTICUT

DATE:	9-09-20
SCALE:	1"=50'
SHEET	8 OF 14
MAP NO.	20-022-1GS

N/F
CHRISTOPHER R. &
ALICIA M. SMITH
ASSESSOR #: 06-10-14
38 BAILEY LANE

N/F
GEOFF F. ELIA &
CHRISTINE E. GEARY
ASSESSOR #: 06-10-14
20 MASON LANE

N/F
JAMES E. NEWCITY &
MONICA R. LOCKIN
ASSESSOR #: 06-18-02
24 MASON LANE

N/F
ELEANOR ROAD
BUSINESS CENTER
LLC
ASSESSOR #: 06-15A
21 ELEANOR ROAD

N/F
RICHARD W. & LINDA
D. BORIO
ASSESSOR #: 06-18-02
49 DEERFIELD ROAD

N/F
GARY T. & D
GODBC
ASSESSOR #: 0
43 DEERFIELD

N/F
SANDRA D. & RONALD
C. HANSON
TRUSTEES
ASSESSOR #: 06-16-06B
71 SCULLY ROAD

N/F
MICHAEL BURZYNSKI
ASSESSOR #: 06-16-05
65 SCULLY ROAD

N/F
STEVEN-MICHAEL &
AIMEE POWERS
ASSESSOR #: 06-16-04
55 SCULLY ROAD

N/F
JASON R. & AMY O.
AVERY
ASSESSOR #: 06-16-03
45 SCULLY ROAD

N/F
DAVID PAPENFUSS &

STOCKPILE AREA

PHASE I
PHASE II

ELEANOR ROAD (PRIVATE)

PROP. 8" WATER MAIN

EXIST. 8" WATER MAIN EXTENSION FROM GILLETTE'S CROSSING SUBDIVISION

PROP. 8" WATER MAIN EXTENSION FROM GILLETTE'S CROSSING SUBDIVISION

PROP. 30' WATER EASEMENT OVER LOTS 14/15 GILLETTE'S CROSSING SUBDIVISION PER MAP REFERENCE 4

GILLETTE'S CROSSING SUBDIVISION

AREA OF 2:1 GRADING (WEST SLOPE) REQUIRES EROSION CONTROL BLANKET (SEE DETAIL) AND SHALL NOT EXCEED 14' VERTICAL HEIGHT

TOP OF 8' WIDE BERM ELEV = 348.50

30' LANDSCAPED BUFFER

80' S.Y.

100' UPLAND REVIEW AREA

TEMPORARY CONSTRUCTION ENTRANCE

WATER DIVERSION

TEMP. SEDIMENTATION BASIN

EVERSOURCE 29440

PROPOSED ROADWAY MAINTENANCE EASEMENT IN FAVOR OF THE TOWN OF SOMERS

RESURFACE APPROX. 250' OF EXISTING PAVEMENT (ELEANOR ROAD) AND EXTEND TO PROPOSED PRIVATE ROAD

BIT. CONC.

FACE STAGGERED ENTRANCE SIGN (SEE ARCHITECTURAL DETAILS)

15'WIDE DEEP PAVED HAMMERHEAD TURNAROUND FOR EMERGENCY USE

16' WATER EASEMENT

AREA OF WETLANDS
293,260 S.F.
(6.73 AC.)

WETLAND FLAGS 1 THRU 50
BY WESLEY J. WENTWORTH
SOIL SCIENTIST - 11/19/20

MAP 6 LOT 15
N/F ELEANOR ROAD, LLC
VOL 242 PG 235

TOTAL AREA:
983,566 S.F.
22.57 AC.

CONTIGUOUS BUILDABLE AREA:
(WEST SIDE OF WETLANDS)
459,327 S.F.
10.54 AC.

REMAINING WETLANDS BOUNDARY TAKEN FROM REFERENCED MAPPPING AS FLAGGED BY JOHN P. IANNI, SOIL SCIENTIST CIRCA 1987

NOTE: UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE ONLY. VERIFY ALL LOCATIONS IN THE FIELD BEFORE START OF CONSTRUCTION. (SEE NOTE BELOW)

WARNING: THESE PLANS NOT TO BE USED FOR LOCATION OF UNDERGROUND UTILITIES. CALL BEFORE YOU DIG 1-800-922-4455 TWO WORKING DAYS BEFORE YOU DIG.

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

LEGEND

- PROPERTY LINE
- CONSTRUCTION PHASE LINE
- SILTFENCE / STAKE HAYBALES
- EXISTING CONTOUR (434)
- PROPOSED CONTOUR (434)
- EXISTING SPOT ELEVATION (434X2)
- EXISTING TREELINE
- PROPOSED LIMIT OF CLEARING

I HEREBY DECLARE TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS PLAN IS SUBSTANTIALLY CORRECT.
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EROSION & SEDIMENTATION CONTROL PLAN

SOAPSTONE ESTATES
ELEANOR ROAD
PREPARED FOR
GINGRAS DEVELOPMENT, LLC
SOMERS, CONNECTICUT

REV. 11-05-20 TOWN REVIEW COMMENTS
REV. 10-19-20 TOWN REVIEW COMMENTS

DATE: 9-09-20
SCALE: 1"=50'
SHEET 9 OF 14
MAP NO. 20-022-1ES

CONTROL MEASURE & CONSTRUCTION NOTES

GENERAL NOTES

ALL CONSTRUCTION METHODS TO CONFORM TO CONN. D.O.T. FORM 816 AND/OR THE TOWN OF SOMERS STANDARD SPECIFICATIONS.

THE LOCATION OF ALL EXISTING UTILITIES SHOWN IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATION OF EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND FOR COORDINATING CONNECTION OF PROPOSED AND EXISTING UTILITIES.

TOWN MAY REQUIRE CHANGES TO THE PLAN TO ADDRESS PROBLEMS THAT MAY RESULT IN THE FIELD.

ALL UTILITIES TO BE INSTALLED/DIRECTED BY APPROPRIATE AUTHORITIES.

SITE NARRATIVE AND LAND USE INFORMATION:

SITE IS OWNED BY GINGRAS DEVELOPMENT, LLC

SITE IS CURRENTLY VACANT LAND. SITE IS PROPOSED TO BE DEVELOPED INTO SINGLE FAMILY ATTACHED AND DETACHED HOUSING.

PROPOSED CONSTRUCTION ACTIVITIES INVOLVE STRIPPING TOPSOIL, STUMPING & GRUBBING VEGETATION, FILLING, INSTALLING DRAINAGE SYSTEMS, SEPTIC SYSTEMS, PUBLIC WATER & UTILITIES, DRIVEWAYS, PARKING AND BUILDING CONSTRUCTION.

INLAND WETLANDS PERMIT REQUIRED FROM THE TOWN OF SOMERS INLAND WETLANDS & WATERCOURSES COMMISSION FOR WORK REQUIRED WITHIN THE UPLAND REVIEW AREA. THERE IS NO ACTIVITY PROPOSED WITHIN ANY WETLANDS OR WATERCOURSES.

SOME GENERAL KEYS TO SUCCESSFUL EROSION & SEDIMENTATION CONTROLS ARE AS FOLLOWS:

1. KEEP CLEARING AND GRUBBING OF VEGETATION TO AN ABSOLUTE MINIMUM.
2. MINIMIZE TIME OF EXPOSURE OF UNPROTECTED SOIL SURFACES.
3. STABILIZE ALL GRADED AREAS WITH MULCH AND VEGETATION IMMEDIATELY AFTER GRADING.
4. DIVERT RUNOFF AWAY FROM STEEPLY SLOPED & DISTURBED AREAS.
5. MONITOR AND MAINTAIN CONTROLS REGULARLY (WEEKLY).

GENERAL

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.

IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS, AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES AND WATERBODIES, AND TO PREVENT, INSOFAR AS POSSIBLE, EROSION ON THE SITE.

CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2002) BY THE STATE OF CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION AND IN CONFORMANCE WITH CONN DOT FORM 816 AND THE CT DEEP GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES EFFECTIVE DATE: OCTOBER 1, 2013, AS REVISED.

LAND GRADING

GENERAL:

THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING BASIC CRITERIA:

THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).

THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).

THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).

NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE, OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSE OR WATERBODY.

INSTALLATION OF SEDIMENT AND EROSION CONTROLS SUCH AS HAY BALES AND SILT FENCES SHALL BE ESTABLISHED PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITIES. ALL SEDIMENT AND EROSION CONTROL STRUCTURES MUST BE MONITORED AND MAINTAINED BY THE CONTRACTOR UNTIL THE SOIL SURFACE IS STABILIZED.

IF NECESSARY, LATERAL WATER DIVERSIONS SHALL BE INSTALLED ACROSS THE GRADED ROADWAY TO PREVENT DOWNSLOPE OUTWASH AND EROSION.

HAY BALES SHALL BE STAKED AND SILT FENCES SHALL BE PROPERLY SECURED. SEDIMENT WILL BE REMOVED FROM ALL CATCHMENTS AS NECESSARY.

PRIOR TO ANY REGRADING, STONE APRON SHALL BE PLACED BY THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.

PROVISIONS SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS, TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.

EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTLING OR CRACKING.

TOPSOILING

GENERAL:

1. TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH AND MAINTENANCE OF VEGETATION.
2. REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS, AND CONSTRUCTION DEBRIS.
3. APPLY LIME ACCORDING TO SOIL TEST OR AT THE RATE OF TWO (2) TONS PER ACRE.

MATERIAL:

1. TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.
2. TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.
3. AN ORGANIC MATTER CONTENT OF OVER TWO (2%) PERCENT IS HIGHLY DESIRABLE. AVOID LIGHT COLORED LOWER SUBSOIL MATERIAL.

APPLICATION:

1. AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
2. SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST FOUR (4") INCHES.

EROSION CHECKS

GENERAL:

1. TEMPORARY PERVIOUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND, OR SEDIMENT FILTER FABRIC FASTENED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

CONSTRUCTION:

1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR (4") INCHES.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES OR REINFORCEMENT BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
4. FILTER FABRIC SHALL BE SECURELY FASTENED AT THE TOP OF A THREE (3') FOOT HIGH FENCE AND BURIED A MINIMUM OF FOUR (4") INCHES INTO THE SOIL. SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF TWO (2') FEET.

INSTALLATION AND MAINTENANCE:

1. BALED HAY EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
2. BALED HAY EROSION BARRIERS AND SEDIMENT FILTER FENCES SHALL BE INSTALLED AT THE LOCATIONS INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DEEMED APPROPRIATE DURING CONSTRUCTION.
3. ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
4. INSPECTION SHALL BE FREQUENT (AT MINIMUM MONTHLY AND BEFORE AND AFTER HEAVY RAIN) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.

WINDBLOWN SEDIMENT

GENERAL:

1. ALL WINDBLOWN SEDIMENTS SHALL BE CONTROLLED AT ALL TIMES. THE SITE CONTRACTOR IS RESPONSIBLE FOR APPLYING DUST CONTROL AS OFTEN AS NEEDED TO PREVENT ANY WINDBLOWN SEDIMENTS FROM LEAVING THE SITE. PREDETERMINED TRAFFIC ROUTES FOR ALL TRAFFIC SHALL BE ESTABLISHED BY THE SITE CONTRACTOR TO STABILIZED ROUTES. TEMPORARY AND PERMANENT MULCHING AND TEMPORARY AND PERMANENT VEGETATIVE COVER SHALL BE USED TO MINIMIZE THE NEED FOR DUST CONTROL. MECHANICAL SWEEPERS SHALL BE USED ON ALL PAVED SURFACES TO PREVENT DUST BUILD UP DURING THE COURSE OF SITE WORK.

METHODS:

1. SPRAY ON ADHESIVES ARE ACCEPTABLE AND SHOULD BE APPLIED ACCORDING TO MANUFACTURER'S GUIDELINES.
2. WATER IS ACCEPTABLE BUT MUST BE APPLIED OFTEN IN HOT, DRY WEATHER.
3. CALCIUM CHLORIDE IS ACCEPTABLE BUT MUST BE APPLIED AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE.
4. CRUSHED STONE OR COARSE GRAVEL CAN ALSO BE USED.

TEMPORARY VEGETATIVE COVER

GENERAL:

1. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL UNPROTECTED AREAS THAT PRODUCE SEDIMENT 7 DAYS AFTER THE SUSPENSION OF GRADING WORK IN DISTURBED AREAS WHERE THE SUSPENSION OF WORK IS EXPECTED TO BE MORE THAN 30 DAYS BUT LESS THAN 12 MONTHS.

SITE PREPARATION:

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. LOOSEN SOIL 3-4" DEEP AND REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. APPLY LIME ACCORDING TO SOIL TEST OR AT A RATE OF TWO (2) TONS OF GROUND DOLOMITIC LIMESTONE PER ACRE (10 LBS. PER 1,000 SQUARE FEET).
4. APPLY FERTILIZER ACCORDING TO SOIL TEST OR AT THE RATE OF 300 LBS. OF 10-10-10 PER ACRE (7 LBS. PER 1,000 SQUARE FEET.)
5. UNLESS HYDROSEEDED, WORK IN LIME AND FERTILIZER TO A DEPTH OF FOUR (4") INCHES USING A DISK OR ANY SUITABLE EQUIPMENT.
6. TILLAGE SHOULD ACHIEVE A REASONABLY UNIFORM, LOOSE SEEDBED. WORK ON CONTOUR IF SITE IS SLOPING.

ESTABLISHMENT:

1. USE ANNUAL RYEGRASS AT A RATE OF 40 LBS/AC. OR SUITABLE EQUIVALENT AS SPECIFIED IN THE "GUIDELINES".
2. SEEDING TO BE DONE FROM MARCH 1ST TO JUNE 15 OR AUGUST 1ST TO OCTOBER 15. WINTER STABILIZATION PLANTINGS TO BE NO LATER THAN OCTOBER 1ST. THIS INCLUDES STOCKPILE AREAS.
3. APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
4. UNLESS HYDROSEEDED, COVER RYEGRASS SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT. COVER SUDANGRASS AND SMALL GRAINS WITH 1/2 INCH SOIL.
5. MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO THE GUIDELINES IN THE "GUIDELINES".

PERMANENT VEGETATIVE COVER

GENERAL:

1. PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL, REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF AND TO ENHANCE THE AESTHETIC NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED.

SITE PREPARATION:

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. REMOVE LOOSE ROCK, STONE AND CONSTRUCTION DEBRIS FROM AREA.
3. PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
4. APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.
5. APPLY FERTILIZER ACCORDING TO SOIL TEST OR:

– SPRING SEEDING:
WORK DEEPLY IN SOIL, BEFORE SEEDING, 300 LBS OF 10-10-10 FERTILIZER PER ACRE (7 LBS PER 1,000 SQUARE FEET); THEN SIX (6) TO EIGHT (8) WEEKS LATER APPLY ON THE SURFACE AN ADDITIONAL 300 LBS OF 10-10-10 FERTILIZER PER ACRE.

– FALL SEEDING:
WORK DEEPLY IN SOIL, BEFORE SEEDING, 600 LBS OF 10-10-10 FERTILIZER PER ACRE (14 LBS PER 1,000 SQUARE FEET).

ESTABLISHMENT:

1. SMOOTH AND FIRM SEEDBED WITH CULTIPACKER OR OTHER SIMILAR EQUIPMENT PRIOR TO SEEDING (EXCEPT WHEN HYDROSEEDING).
2. SELECT ADAPTED SEED MIXTURE AS FOLLOWS. NOTE RATES AND THE SEEDING DATES.

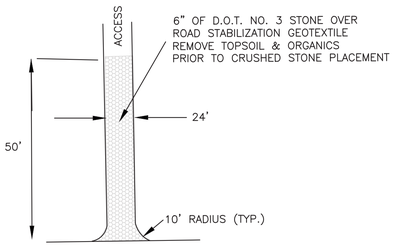
SUNNY TO PARTIALLY SUNNY SITES

	LBS./ACRE	LBS./1000 S.F.
KENTUCKY BLUEGRASS	20	0.50
CREEPING RED FESCUE	20	0.50
PERENNIAL RYEGRASS	05	0.10
TOTAL	45	1.10

VEGETATED SWALES, BANKS & DETENTION BASINS

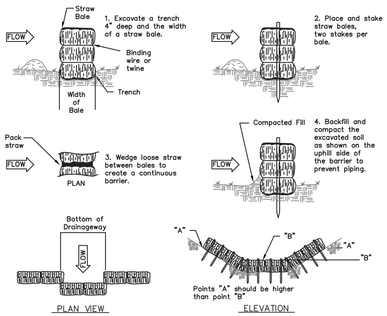
CREEPING RED FESCUE	20	0.45
REDTOP	02	0.05
TALL FESCUE	20	0.45
TOTAL	42	0.95

3. FINAL SEEDING SHALL TAKE PLACE PRIOR TO OCTOBER 1ST AS SEEDING AFTER THIS DATE RUNS A DISTINCT CHANCE OF FAILURE DUE TO ADVERSE WEATHER. ANY AREAS THAT ARE DISTURBED BETWEEN OCTOBER 1ST AND APRIL 1ST SHALL BE STABILIZED BY NON-VEGETATIVE MEANS SUCH AS HEAVY MULCHING WITH A BINDER OR JUTE MATTING WHICH WILL HAVE TO BE REMOVED BEFORE FINAL SEEDING AND THEN REPLACED AFTER FINAL SEEDING.
4. APPLY SEED UNIFORMLY ACCORDING TO RATE INDICATED, BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
5. COVER GRASS AND LEGUME SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).
6. MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO THE GUIDELINES IN THE "GUIDELINES".
7. USE PROPER INOCULANT ON ALL LEGUME SEEDINGS, USE FOUR (4) TIMES NORMAL RATE WHEN HYDROSEEDING.



CONSTRUCTION ENTRANCE DETAIL

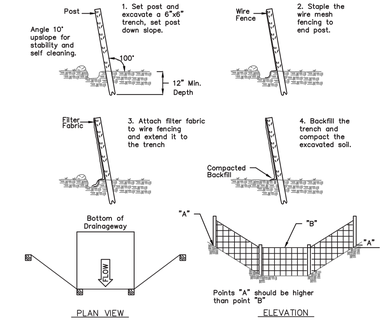
NO SCALE



Source: U.S. Department of Agriculture, Soil Conservation Service, Storrs, Connecticut

PLACEMENT AND CONSTRUCTION OF A STRAW BALE BARRIER

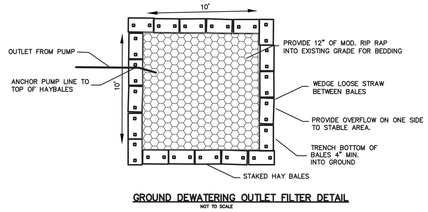
NOT TO SCALE



Source: U.S. Department of Agriculture, Soil Conservation Service, Storrs, Connecticut

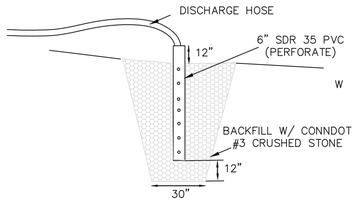
PLACEMENT AND CONSTRUCTION OF A SYNTHETIC FILTER BARRIER

NOT TO SCALE



GROUND DEWATERING OUTLET FILTER DETAIL

NOT TO SCALE



GROUND DEWATERING INLET FILTER DETAIL

NOT TO SCALE

DEWATERING NOTES:
ALL EXCAVATION WATER PUMPED FOR INSTALLATION OF STRUCTURES AND UTILITIES IS TO BE CLEAN BEFORE ENTERING A WETLAND OR WATERCOURSE.

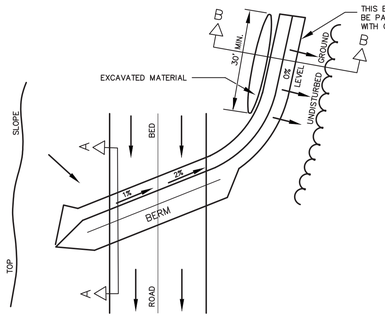
LOCATE DEWATERING FILTER OUTSIDE 100 FOOT WETLAND SETBACK AREA WHERE FEASIBLE.

DIRECT OVERFLOW OF DEWATERING FILTER TO DRAIN ACROSS AREAS WITH WELL ESTABLISHED VEGETATION TO MINIMIZE EROSION AND AID IN SEDIMENT FILTERING.

IF PUMPING OF GREATER THAN 20 GAL/MIN. IS REQUIRED SEE 2002 E&S GUIDELINES FOR ALTERNATE FILTER DETAIL

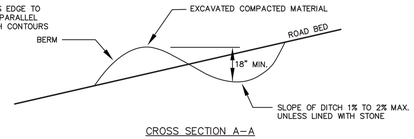
NO DISCHARGE OF DEWATERING WASTEWATERS SHALL CONTAIN OR CAUSE A VISIBLE OIL SHEEN, FLOATING SOLIDS OR FOAMING IN THE RECEIVING WATER.

REFER TO 2002 E & S GUIDELINES PRIOR TO BEGINNING ANY DEWATERING ACTIVITIES.



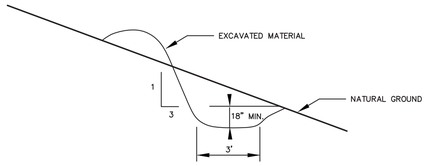
TYPICAL TEMPORARY WATER – BAR AND LEVEL SPREADER DETAIL

NOT TO SCALE



CROSS SECTION A–A

NOT TO SCALE



CROSS SECTION B–B

NOT TO SCALE

SITE NARRATIVE

IN GENERAL THIS PROJECT CONSISTS OF CONSTRUCTING 18 NEW BUILDINGS CONTAINING 25 UNITS OF ATTACHED AND DETACHED SINGLE FAMILY DWELLINGS ON 22.57 ACRES OF UNDEVELOPED WOODLAND IN SOMERS, CT. SITE ACCESS WILL BE VIA ELEANOR ROAD.

SOILS ARE PREDOMINANTLY LOAMY SANDS WITH SEASONAL HIGH GROUNDWATER AT APPROXIMATELY 96 INCHES OR DEEPER THROUGHOUT THE UPLANDS AND AT OR NEAR THE SURFACE WITHIN THE WETLANDS. THERE ARE SOME AREAS IN THE NORTHERLY PORTION OF UPLANDS AND IMMEDIATELY ABUTTING THE WETLANDS THAT ARE FINE SANDY LOAMS WITH SEASONAL HIGH GROUNDWATER BETWEEN 18–48 INCHES FROM THE SURFACE.

TOTAL SITE DISTURBANCE PROPOSED IS 7.6 ACRES. SITE WORK IS PROPOSED IN TWO PHASES. PHASE I WILL CONSIST OF 3.8 ACRES OF DISTURBANCE. PHASE II WILL CONSIST OF 5.0 ACRES OF DISTURBANCE. (SOME PHASE OVERLAPPING TO OCCUR DURING CONSTRUCTION)

SEDIMENTATION POTENTIAL TO DOWNSTREAM WETLANDS AND WATERCOURSES IS AVERAGE. SITE IS MODERATELY SLOPED, WHICH MINIMIZES STORM WATER VELOCITIES DURING A RAIN EVENT. THIS SITE HAS BEEN DESIGNED TO MINIMIZE IMPACTS DURING CONSTRUCTION BY USE OF A SITE SPECIFIC EROSION & SEDIMENTATION CONTROL PLAN, NOTES & DETAILS. LONG TERM CONTROL OF STORM FLOWS WILL BE CONTROLLED VIA PIPE AND CATCH BASIN SYSTEM WHICH DISCHARGE TO WATER QUALITY / DETENTION BASIN LOCATED NEAR THE ENTRANCE TO THE SITE.

SITE HAS BEEN DESIGNED TO TREAT RUNOFF GENERATED FOR UP TO 1" STORM EVENTS. ENTIRE WATER QUALITY VOLUME WILL BE TREATED VIA THE ONSITE STORMWATER BASIN. PEAK STORM EVENTS WILL HAVE FULL DETENTION UP TO 100 YEAR STORM EVENTS. THIS DESIGN WILL MINIMIZE IMPACTS DUE TO LARGE STORM EVENTS ON DOWNSTREAM PROPERTIES.

A LONG TERM STORMWATER MANAGEMENT PLAN IS PART OF SITE PLANS TO ENSURE PROPER OPERATION AND MAINTENANCE OF STORMWATER CONTROL MEASURES.

CONSTRUCTION SEQUENCE FOR PHASE I

1. CLEAR NECESSARY TREES AND BRUSH ON ENTIRE SITE.
2. INSTALL SILT FENCE & CONSTRUCTION ENTRANCE. MONITOR THROUGHOUT CONSTRUCTION.
3. STUMP & GRUB PHASE I ONLY. STRIP TOPSOIL AND STOCKPILE.
4. BEGIN CONSTRUCTION ON DETENTION BASIN TO BE USED AS TEMPORARY SEDIMENTATION TRAP THROUGHOUT CONSTRUCTION UNTIL SITE IS STABILIZED.
5. BEGIN CUTTING AND FILLING FOR ACCESS DRIVE. FILL MATERIAL TO BE NATIVE OR STRUCTURAL MATERIAL FREE OF ORGANICS AND PLACED IN LIFTS OF 18" AND COMPACTED. NO ROCKS LARGER THAN 12"
6. INSTALL PIPES, STRUCTURES, BEDDING MATERIAL AND RIP RAP
7. INSTALL WATER MAIN AND SERVICE STUBS, FOUNDATION DRAIN STUBS, SANITARY PIPE CROSSINGS UNDER ROAD AND UNDERGROUND UTILITIES
8. INSTALL BANK RUN GRAVEL, PROCESSED AGGREGATE BASE, ASPHALT BASE COURSE AND CURBING
9. FINISH GRADE PHASE I, LOAM, SEED AND MULCH

CONSTRUCTION SEQUENCE FOR PHASE II

1. STUMP & GRUB PHASE II. STRIP TOPSOIL AND STOCKPILE.
2. CONTINUE TO USE DETENTION BASIN AS TEMPORARY SEDIMENTATION TRAP THROUGHOUT CONSTRUCTION UNTIL SITE IS STABILIZED.
3. CONTINUE CUTTING AND FILLING FOR REMAINDER OF SITE GRADING. FILL MATERIAL TO BE NATIVE OR STRUCTURAL MATERIAL FREE OF ORGANICS AND PLACED IN LIFTS OF 18" AND COMPACTED. NO ROCKS LARGER THAN 12".
4. BEGIN FOUNDATION AND BUILDING CONSTRUCTION
5. INSTALL WATER SERVICES, SEPTIC SYSTEMS AND UNDERGROUND UTILITIES TO UNITS.
6. INSTALL DRIVEWAYS, SITE SIGNAGE & LIGHTING.
7. FINISH GRADE SITE, LOAM, SEED AND MULCH. PLANT TREES ALONG WESTERN PROPERTY LINE.
8. REMOVE SEDIMENT ACCUMULATION FROM DETENTION BASIN, LOAM AND PLANT PER PLANTING SCHEDULE
9. INSTALL FINISH COARSE OF ASPHALT
10. REMOVE EROSION CONTROLS AFTER PHASE IS COMPLETELY STABILIZED.

EROSION & SEDIMENTATION CONTROL RESPONSIBLE PARTY:

THOMAS J. CARENZO
19 ROYAL MANOR
SOMERS, CT 06071
TEL. (860) 916-0049

OPERATION AND MAINTENANCE SCHEDULE

NOTE: PRIOR TO ANY CLEANING W/IN BASIN, ETC. THE TOWN OF SOMERS INLAND WETLANDS AGENT IS TO BE NOTIFIED OF ACTIVITY.

–WATER QUALITY AND DETENTION BASIN

INSPECT AFTER MAJOR RAINSTORMS (1" OR GREATER) & REMOVE TRASH & DEBRIS

INSPECT BASIN INLETS AND OUTLETS AND SIDE SLOPES FOR STRUCTURAL INTEGRITY & SEDIMENT ACCUMULATION. REMOVE SEDIMENTATION AFTER ACCUMULATION IN EXCESS OF 6". RESEED WITH WET MEADOW GRASS SEED MIX AND MULCH. JUTE MAT CAN BE USED TO STABILIZE AREAS THAT ARE RESEEDED UNTIL VEGETATION HAS BEEN ESTABLISHED

INSPECT BASIN BOTTOM. REMOVE SEDIMENTATION ACCUMULATION IN WHEN IN EXCESS OF 12" DEEP. PUMP DOWN ANY STANDING WATER PRIOR TO SEDIMENT REMOVAL. RESEED W/ WET MEADOW GRASS SEED MIX AND MULCH W/ WEED FREE HAY OR STRAW.

INSPECT STONE FILTER BERMS FOR STRUCTURAL INTEGRITY. REPAIR AS REQUIRED. IF LONG TERM STANDING WATER BEHIND STONE BERMS IS IN EXCESS OF 12" DEEP, REPLACE ENTIRE BERM, AS GRAVEL CORE IS MORE THAN LIKELY PLUGGED W/ FINE MATERIALS.

INSPECT EMBANKMENT. VERIFY THAT NO AREAS OF SETTLEMENT HAVE OCCURRED. FILL/REGRADE TOP OF BERM AS NECESSARY TO MAINTAIN MINIMUM TOP OF BERM ELEVATION. RESEED AND MULCH AS NECESSARY. MOW EMBANKMENT AT LEAST ONCE PER YEAR.

INSPECT OUTLET STRUCTURE. REMOVE ANY ACCUMULATED DEBRIS OR SEDIMENT FROM INLET. INSPECT OUTLET FOR STRUCTURAL INTEGRITY AND REMOVE DEBRIS AND SEDIMENT. REPAIR RIP RAP AREAS AS REQUIRED.

–CULVERT INLETS AND OUTLETS

INSPECT AFTER MAJOR RAINSTORMS (1" OR GREATER) & REMOVE TRASH & DEBRIS

REMOVE SEDIMENTATION AFTER ACCUMULATION IN EXCESS OF 12". RESEED WITH WET MEADOW GRASS SEED MIX AND MULCH OR RESTABILIZE WITH RIP RAP. JUTE MAT CAN BE USED TO STABILIZE AREAS THAT ARE RESEEDED UNTIL VEGETATION HAS BEEN ESTABLISHED

–PAVED AREAS

SWEEP ANNUALLY IN SPRING TO REMOVE SAND AND SILT MATERIALS

–CATCH BASINS

VACUUM SUMPS ANNUALLY IN SPRING TO REMOVE SAND AND SILT MATERIALS. REMOVE ANY DEBRIS THAT MAY BE CLOGGING INLET GRATE TWICE PER YEAR OR AS NECESSARY. INSPECT FOR STRUCTURAL INTEGRITY AND REPAIR AS REQUIRED

–OVERALL SITE

ONSITE USE OF HERBICIDES, PESTICIDES AND FERTILIZERS SHOULD BE KEPT TO A MINIMUM.

I, HEREBY DECLARE TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THIS PLAN IS SUBSTANTIALLY CORRECT.

WESLEY J. WENTWORTH P.E. # 20360

WENTWORTH CIVIL ENGINEERS LLC
177 WEST TOWN ST.
LEBANON, CT 06249
TEL. (860) 642-7255
FAX (860) 642-4794
web: wentworthcivil.com

REV. 11-05-20 TOWN REVIEW COMMENTS
REV. 10-19-20 TOWN REVIEW COMMENTS

EROSION & SEDIMENTATION CONTROL NOTES & DETAILS

SOAPSTONE ESTATES
ELEANOR ROAD
PREPARED FOR
GINGRAS DEVELOPMENT, LLC
SOMERS, CONNECTICUT

DATE:	9-09-20
SCALE:	SHOWN
SHEET	10 OF 14
MAP NO.	20-022-1EN

SOILS DATA

SOILS TESTING PERFORMED 9-29-88
FOR SOMERS ANACOIL

TP #2A
NO TOPSOIL
0-14" BROWN COARSE SANDY GRAVEL
TILL 10% COBBLES, LOOSE
ROOTS TO: 12"

TP #3A
NO TOPSOIL
0-16" YELLOW BROWN GRAVELLY LOAM
16-33" BROWN LOOSE SANDY GRAVEL
33-55" GRAY BROWN SAND
55-? BROWN LOOSE SANDY GRAVEL 20 % COBBLES

TP #4A
0-4" TOPSOIL
4-12" GRAVELLY LOAM
12-46" LIGHT BROWN SANDY GRAVEL
46-88" DARK BROWN SANDY GRAVEL W/SOME COBBLES

SOILS TESTING PERFORMED 2-22-05.
BY STEVEN JACOBS & COOKER CONSTRUCTION.

TP 103
LEDGE AT 103"

TP 104
LEDGE AT 28"

TP #1
0-11" TOPSOIL
11=28" VERY FRIABLE GRAVELLY LOAM
28-38" LOOSE SAND & GRAVEL
38-90" STRATIFIED LOOSE VERY FINE-MED. SAND
ROOTS TO: 60"

TP #2
0-15" TOPSOIL
15-22" VERY FRIABLE GRAVELLY LOAM
22-35" LOOSE SAND & GRAVEL
35-86" STRATIFIED LOOSE VERY FINE-ME. SAND
DEPTH TO MOTTLING: 41" FEW HIGH CHROMA
ROOTS TO: 52"

TP #3
0-12" TOPSOIL
12-32" FRIABLE SANDY LOAM
32-84" SOMEWHAT FRIABLE GRAVELLY LOAM
DEPTH TO WATER: 72"
DEPTH TO MOTTLING: 30" FEW, CLEAR
ROOTS TO: 34"

TP #4
0-11" TOPSOIL
11-31" FRIABLE FINE SANDY LOAM
31-80" VERY LOOSE VERY COARSE SAND & GRAVEL
DEPTH TO WATER: 46"
DEPTH TO MOTTLING: 28" MANY, CLEAR
ROOTS TO: 34"

TP #4A
0-15" TOPSOIL
15-29" VERY FRIABLE FINE SANDY LOAM
29-76" VERY LOOSE VERY COARSE SAND & GRAVEL
DEPTH TO WATER: 69"
DEPTH TO MOTTLING: 53" FEW, FAINT
ROOTS TO: 35"

TP #4B
0-11" TOPSOIL
11-21" FRIABLE FINE SANDY LOAM
21-42" DENSE SILT LOAM
42-75" VERY LOOSE VERY COARSE SAND & GRAVEL
DEPTH TO WATER: 52"
DEPTH TO MOTTLING: 20" COMMON, PROMINENT
ROOTS TO: 19"

TP #8
0-9" TOPSOIL
9-23" FRIABLE FINE SANDY LOAM
23-42" FRIABLE FINE LOAMY SAND
DEPTH TO LEDGE: 32-42"
ROOTS TO: 40"

TP #9
0-9" TOPSOIL
9-22" FRIABLE FINE SANDY LOAM
22-61" VERY LOOSE VERY COARSE SAND & GRAVEL W/ COBBLES
DEPTH TO LEDGE: 61"
ROOTS TO: 29"

SOILS TESTING PERFORMED 11-15-05
BY DESIGN PROFESSIONALS, INC. & STEVEN JACOBS

TP #1X
0-12" TOPSOIL
12-32" FRIABLE SANDY LOAM
32-63" FIRM SANDY LOAM TILL (RESTRICTIVE)
DEPTH TO WATER: 49"
ROOTS TO: 25"

TP #2X
0-13" TOPSOIL
13-24" SOMEWHAT FRIABLE SANDY LOAM
24-82" FIRM SANDY LOAM TILL (RESTRICTIVE)
DEPTH TO WATER: 47"

TP #3X
0-14" TOPSOIL
14-24" FRIABLE SANDY LOAM
24-40" SOMEWHAT FRIABLE SANDY LOAM TILL
40-90" FIRM SANDY LOAM TILL
DEPTH TO WATER: 34"
DEPTH TO MOTTLING: 32"
ROOTS TO: 23"

TP #4X
0-14" TOPSOIL
14-22" FRIABLE SANDY LOAM
22-70" FIRM SANDY LOAM TILL
DEPTH TO WATER: 38"
DEPTH TO MOTTLING: 20"
ROOTS TO: 30"

TP #5X
0-13" TOPSOIL
13-42" FRIABLE SANDY LOAM
42-68" FIRM SANDY LOAM TILL
DEPTH TO WATER: 28"
DEPTH TO MOTTLING: 22"
ROOTS TO: 30"

TP #6X
0-15" TOPSOIL
15-23" FRIABLE SANDY LOAM
23-43" FIRM SANDY LOAM TILL
43-78" FIRM SANDY LOAM TILL
DEPTH TO WATER: 38"
ROOTS TO: 24"

TP #7X
0-11" TOPSOIL
11-21" FRIABLE SANDY LOAM
21-64" LOOSE COARSE SAND & GRAVEL W/COBBLES
DEPTH TO WATER: 31"
DEPTH TO MOTTLING: 21"
ROOTS TO: 14"

TP #8X
0-12" TOPSOIL
12-24" FRIABLE SANDY LOAM
24-65" LOOSE COARSE SAND & GRAVEL
DEPTH TO WATER: 37"
DEPTH TO MOTTLING: 21"
ROOTS TO: 15"

TP #9X
0-10" TOPSOIL
10-34" FRIABLE SANDY LOAM
34-70" LOOSE COARSE SAND & GRAVEL W/COBBLES
DEPTH TO WATER: 40"
DEPTH TO MOTTLING: 19"
ROOTS TO: 24"

TP #10X
0-12" TOPSOIL
12-35" FRIABLE SANDY LOAM
35-67" LOOSE COARSE SAND & GRAVEL W/COBBLES
DEPTH TO WATER: 43"
DEPTH TO MOTTLING: 26"
ROOTS TO: 24"

TP #11X
0-10" TOPSOIL
10-39" FRIABLE SANDY LOAM
39-80" LOOSE COARSE SAND & GRAVEL
DEPTH TO WATER: 54"
DEPTH TO MOTTLING: 18"
ROOTS TO: 26"

TP #12X
0-10" TOPSOIL
10-38" FRIABLE FINE SANDY LOAM
39-50" SLIGHTLY CEMENTED COARSE SAND & GRAVEL
50-70" LOOSE COARSE SAND & GRAVEL
DEPTH TO WATER: 54"
DEPTH TO MOTTLING: 23"

TP #13X
0-12" TOPSOIL
12-26" FRIABLE SANDY LOAM
26-41" SLIGHTLY CEMENTED SANDY LOAM
41-70" LOOSE COARSE SAND & GRAVEL
DEPTH TO WATER: 44"
DEPTH TO MOTTLING: 23"
ROOTS TO: 12"

TP #14X
0-10" TOPSOIL
10-26" FRIABLE FINE SANDY LOAM
26-41" SLIGHTLY CEMENTED COARSE SAND & GRAVEL
41-80" LOOSE COARSE SAND & GRAVEL W/COBBLES
DEPTH TO WATER: 80"
DEPTH TO MOTTLING: 27"
ROOTS TO: 29"

TP #15X
0-11" TOPSOIL
11-27" VERY FRIABLE LOAMY FINE SAND
27-77" LOOSE COARSE SAND & GRAVEL
ROOTS TO: 39"

TP #16X
0-13" TOPSOIL
13-22" VERY FRIABLE LOAMY FINE SAND
22-80" LOOSE COARSE SAND
ROOTS TO: 30"

TP #19X
0-5" TOPSOIL
5-13" VERY FRIABLE LOAMY SAND
13-85" LOOSE COARSE SAND & GRAVEL
ROOTS TO: 18"

TP #20X
0-12" TOPSOIL
12-44" VERY FRIABLE LOAMY FINE SAND
44-53" LOOSE FINE SAND
53-84" FIRM SANDY LOAM TILL
DEPTH TO MOTTLING: 33-42" SUSPENDED (NOT WATER TABLE)
ROOTS TO: 32"

TP #21X
0-12" TOPSOIL
12-33" FRIABLE SANDY LOAM
33-96" LOOSE COARSE SAND & GRAVEL
ROOTS TO: 49"

TP #22X
0-12" TOPSOIL
12-28" FRIABLE SANDY LOAM
28-91" LOOSE COARSE SAND & GRAVEL W/COBBLES
ROOTS TO: 32"

TP #23X
0-12" TOPSOIL
12-25" FRIABLE SANDY LOAM
25-90" LOOSE COARSE SAND
ROOTS TO: 26"

TP #24X
0-13" TOPSOIL
13-47" FRIABLE SANDY LOAM
47-70" LOOSE COARSE SAND & GRAVEL W/COBBLES
70-94" LOOSE COARSE SAND
ROOTS TO: 53"

TP #25X
0-19" TOPSOIL
19-49" FRIABLE SANDY LOAM
49-86" LOOSE COARSE SAND & GRAVEL
DEPTH TO MOTTLING: 44-49" SUSPENDED (NOT WATER TABLE)
ROOTS TO: 54"

TP #26X
0-14" TOPSOIL
14-49" FRIABLE SANDY LOAM
49-64" FRIABLE LOAMY COARSE SAND
64-93" LOOSE MEDIUM TO COARSE SAND
DEPTH TO MOTTLING: 46-49" SUSPENDED (NOT WATER TABLE)
ROOTS TO: 50"

TP #27X
0-17" TOPSOIL
17-36" FRIABLE SANDY LOAM
36-56" SOMEWHAT FRIABLE SANDY LOAM
56-95" LOOSE MEDIUM SAND
DEPTH TO MOTTLING: 80"
ROOTS TO: 35"

TP #28X
0-13" TOPSOIL
13-29" FRIABLE SANDY LOAM
29-55" LOOSE COARSE SAND & GRAVEL
55-100" LOOSE MEDIUM SAND
ROOTS TO: 48"

SOILS TESTING PERFORMED 3-17-06.
BY DESIGN PROFESSIONALS, INC. & STEVEN JACOBS

TP #309
0-18" TOPSOIL
18-44" MEDIUM BROWN SILTY SAND
44-78" COMPACT REDDISH BROWN SILTY SAND (WET)
DEPTH TO WATER: 78"
ROOTS TO: 30"

TP #310
0-16" TOPSOIL
16-38" MEDIUM BROWN SILTY SAND
38-67" COMPACT MEDIUM BROWN SILTY SAND
DEPTH TO WATER: 67"
DEPTH TO MOTTLING: 38"
ROOTS TO: 26"

SOILS TESTING PERFORMED 9-3-2020.
BY STEVEN JACOBS
HINCKLEY CONSTRUCTION & GINGRAS DEVELOPMENT, PRESENT

TP #201
0-4" TOPSOIL
4-22" VERY FRIABLE LOAMY SAND
22-67" LOOSE LOAMY GRAVEL
67-108" VERY LOOSE VERY COARSE SANDY GRAVEL
ROOTS: 69"
STANDPIPE INSTALLED

TP #202
0-5" TOPSOIL
5-37" FRIABLE FINE SANDY LOAM
37-63" LOOSE LOAMY GRAVEL
63-91" FIRM SANDY LOAM TILL
ROOTS: 42"
STANDPIPE INSTALLED

PERCOLATION DATA

PERCOLATION TESTS PERFORMED BY
RRAM, JAU ON NOVEMBER 15, 2005

PERCOLATION TEST: 6X
DEPTH OF PERC. HOLE: 24"
PRE-SOAK AT 12"

TIME	READING	RATE (MIN./IN)
2:35	15 1/2"	--
2:38	17 1/2"	1.5
2:41	18 3/4"	2.4
2:44	20 1/4"	2.0
2:49	21"	6.67
2:55	22 1/2"	4.0
3:00	23 1/4"	6.67
3:05	24"	6.67
3:10	25"	5.0 (DRY)

DESIGN RATE: 5.1-10.0 MIN./IN.

PERCOLATION TEST: 7X
DEPTH OF PERC. HOLE: 24"
PRE-SOAK AT 12"

TIME	READING	RATE (MIN./IN)
3:00	12"	--
3:03	13 3/4"	1.71
3:06	15"	2.4
3:09	16 1/2"	2.0
3:12	17 1/4"	4.0
3:18	18 1/4"	6.0
3:24	19 1/2"	4.8
3:30	21"	4.0 (DRY)

DESIGN RATE: 5.1-10.0 MIN./IN.

PERCOLATION TEST: 8X
DEPTH OF PERC. HOLE: 24"
PRE-SOAK AT 12"

TIME	READING	RATE (MIN./IN)
3:07	9 1/2"	--
3:08	10 1/4"	1.33
3:09	11"	1.33
3:10	12"	1.0
3:11	12 1/2"	2.0
3:12	13"	2.0
3:14	14"	2.0
3:16	14 3/4"	2.6
3:22	17 1/4"	1.0
3:24	17 3/4"	4.0
3:26	18 1/4"	4.0
3:37	20 3/4"	4.4 (DRY)

DESIGN RATE: 1.0-5.0 MIN./IN.

PERCOLATION TEST: 9X
DEPTH OF PERC. HOLE: 24"
PRE-SOAK AT 12"

TIME	READING	RATE (MIN./IN)
2:37	15"	--
2:41	17 1/2"	1.6
2:43	18 1/4"	2.67
2:46	22"	0.8
2:48	24"	1.0

DESIGN RATE: 1.0-5.0 MIN./IN.

PERCOLATION TEST: 10X
DEPTH OF PERC. HOLE: 24"
PRE-SOAK AT 12"

TIME	READING	RATE (MIN./IN)
2:31	9 1/4"	--
2:33	10 3/4"	1.13
2:35	11 3/4"	20.0
2:37	12 1/2 "	2.67
2:39	13"	4.0
2:41	13 1/2"	4.0
2:44	14 1/4"	4.0
2:47	15"	4.0
2:50	15 1/2"	6.0
2:54	16 1/4"	5.33
2:59	17 1/4"	5.0
3:04	18 1/4"	5.0
3:09	18 3/4"	5.0
3:14	19"	10.0
3:19	19 1/2"	20.0
3:24	20"	10.0
3:29	20 1/2"(DRY)	10.0

DESIGN RATE: 10.1-20.0 MIN./IN.

PERCOLATION TEST: 11X
DEPTH OF PERC. HOLE: 24"
PRE-SOAK AT 12"

TIME	READING	RATE (MIN./IN)
2:30	9"	--
2:32	10 1/2"	1.13
2:34	10 3/4"	8.0
2:36	11 1/4 "	4.0
2:38	11 3/4"	4.0
2:40	12"	8.0
2:43	12 1/2"	6.0
2:46	13"	6.0
2:49	13 1/4"	12.0
2:53	13 3/4"	8.0
2:58	14 1/4"	10.0
3:03	14 3/4"	10.0
3:08	15 1/4"	10.0
3:13	15 3/4"	10.0
3:18	16 1/4"	10.0
3:23	16 1/2"	20.0
3:28	17"	10.0
3:33	17 1/4"	20.0
3:38	17 3/4"	10.0
3:48	18 1/2"	13.3
3:58	19"	20.0
4:08	19 1/2"	20.0

DESIGN RATE: 10.1-20.0 MIN./IN.

PERCOLATION TEST: 12X
DEPTH OF PERC. HOLE: 26"
PRE-SOAK AT 12"

TIME	READING	RATE (MIN./IN)
1:48	14 1/2"	--
1:51	15"	6.0
1:54	15 1/2 "	6.0
1:57	16"	6.0
2:00	16 1/2"	6.0
2:03	17 1/4"	4.0
2:06	17 1/2"	12.0
2:09	18"	6.0
2:15	18 3/4"	8.0
2:21	19 1/4"	12.0
2:27	19 3/4"	12.0
2:33	20 1/4"	12.0
2:39	20 3/4"	12.0
2:45	21"	24.0
2:51	21 1/4"	24.0
2:57	21 1/2"	24.0
3:08	22"	22.0
3:16	22 1/2"	16.0
3:22	23"	12.0
3:41	23 1/2"	38.0

DESIGN RATE: 20.1-30.0 MIN./IN.

PERCOLATION TEST: 12X
DEPTH OF PERC. HOLE: 26"
PRE-SOAK AT 12"

TIME	READING	RATE (MIN./IN)
1:48	14 1/2"	--
1:51	15"	6.0
1:54	15 1/2 "	6.0
1:57	16"	6.0
2:00	16 1/2"	6.0
2:03	17 1/4"	4.0
2:06	17 1/2"	12.0
2:09	18"	6.0
2:15	18 3/4"	8.0
2:21	19 1/4"	12.0
2:27	19 3/4"	12.0
2:33	20 1/4"	12.0
2:39	20 3/4"	12.0
2:45	21"	24.0
2:51	21 1/4"	24.0
2:57	21 1/2"	24.0
3:08	22"	22.0
3:16	22 1/2"	16.0
3:22	23"	12.0
3:41	23 1/2"	38.0

DESIGN RATE: 20.1-30.0 MIN./IN.

PERCOLATION TEST: 13X
DEPTH OF PERC. HOLE: 24"
PRE-SOAK AT 12"

TIME	READING	RATE (MIN./IN)
1:42	8 1/4"	--
1:43	9 1/2"	1.0
1:44	10 1/2 "	1.0
1:45	11 1/2"	1.0
1:46	12"	2.0
1:47	12 3/4"	1.3
1:48	13 1/4"	2.0
1:50	14"	2.67
1:52	14 3/4"	2.67
1:55	15"	8.0
2:00	16"	5.0
2:05	17"	5.0
2:10	17 1/2"	10.0
2:15	18 1/4"	6.67
2:18	19"	4.0

DESIGN RATE: 5.1-10.0 MIN./IN.

PERCOLATION TESTS PERFORMED BY
RRAM, JAU ON NOVEMBER 16, 2005

PERCOLATION TEST: 1X
DEPTH OF PERC. HOLE: 24"
PRE-SOAK AT 12" (11-15-05)

TIME	READING	RATE (MIN./IN)
1:18	9 3/4"	--
1:19	10"	4.0
1:21	10 1/4"	8.0
1:23	10 1/2"	8.0
1:28	11"	10.0
1:32	11 1/4"	16.0
1:38	11 3/4"	12.0
1:44	12"	24.0
1:48	12 1/2"	8.0
1:55	12 3/4"	40.0
2:03	13 1/4"	16.0
2:13	13 3/4"	20.0
2:23	14 1/4"	20.0
2:33	14 3/4"	20.0
2:53	15 1/2"	26.6
3:32	17"	16.0
3:42	17 1/4"	40.0
3:52	17 1/2"	40.0
4:07	17 3/4"	60.0
4:13	18	24.0

*4" REMAINING IN TEST HOLE
DESIGN RATE: 30.1-45.0 MIN./IN.

PERCOLATION TEST: 2X
DEPTH OF PERC. HOLE: 24"
PRE-SOAK AT 12" (11-15-05)

TIME	READING	RATE (MIN./IN)
1:25	12 1/4"	--
1:29	12 3/4"	8.0
1:35	13 1/4"	12.0
1:40	13 3/4"	10.0
1:45	14"	20.0
1:51	14 1/2"	12.0
2:05	15"	28.0
2:15	15 1/2"	20.0
2:25	16 1/4"	13.3
2:35	16 1/2"	40.0
2:55	17 1/4"	26.6
3:30	18 1/4"	35.0
3:44	18 1/2"	56.0
3:54	18 3/4"	40.0
4:08	19"	56.0

*5" REMAINING IN TEST HOLE
DESIGN RATE: 45.1-60.0.0 MIN./IN.

PERCOLATION TEST: 3X
DEPTH OF PERC. HOLE: 24"
PRE-SOAK AT 12" (11-15-05)

TIME	READING	RATE (MIN./IN)
1:27	12 1/2"	--
1:30	13 1/4"	4.0
1:36	13 1/2"	24.0
1:41	14"	10.0
1:46	14 1/4"	20.0
1:53	14 1/2"	26.0
2:06	15 1/4"	9.33
2:16	15 1/2"	40.0
2:26	16"	20.0
2:36	16 1/4"	40.0
2:56	16 3/4"	40.0
3:29	18"	18.8
3:45	18 1/4"	64.0
3:55	18 1/2"	40.0
4:10	18 3/4"	60.0

*5" REMAINING IN TEST HOLE
DESIGN RATE: 45.1-60.0.0 MIN./IN.

PERCOLATION TEST: 4X
DEPTH OF PERC. HOLE: 24"
PRE-SOAK AT 12" (11-15-05)

TIME	READING	RATE (MIN./IN)
1:21	11 1/2"	--
1:26	12"	10.0
1:31	12 1/4"	20.0
1:36	13"	6.67
1:41	14"	10.0
1:56	14 1/2"	20.0
2:06	15 1/4"	13.33
2:16	15 1/2"	40.0
2:26	16"	20.0
2:36	16 1/2"	20.0
2:46	16 3/4"	40.0
2:56	17"	40.0
3:16	17 1/2"	20.0
3:36	18 1/4"	26.67
3:56	18 3/4"	40.0

DESIGN RATE: 30.1-45.0 MIN./IN.

PERCOLATION TEST: 5X
DEPTH OF PERC. HOLE: 24"
PRE-SOAK AT 12" (11-15-05)

TIME	READING	RATE (MIN./IN)
1:33	11 1/2"	--
1:36	13 1/4"	1.71
1:39	14"	4.0
1:42	14 1/2"	6.0
1:44	15 3/4"	1.6
1:48	16 1/2"	5.33
1:52	17 1/4"	5.33
1:56	18"	5.33
2:00	19"	4.0
2:04	20"	4.0
2:08	20"	--
2:12	20 1/4"	32.0
3:22	21 1/4"	10.0
3:32	22"	13.33
3:42	23 1/2"	6.37 (DRY)

DESIGN RATE: 30.1-45.0 MIN./IN.

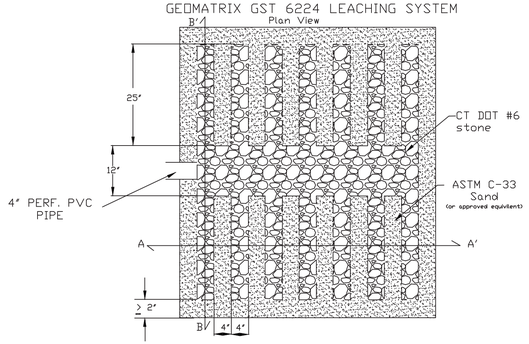
SOILS DATA
SOAPSTONE ESTATES
PREPARED FOR
GINGRAS DEVELOPMENT
SOMERS, CONN.

REV. 11-5-2020 TOWN REVIEW COMMENTS
REV. 10-19-2020 TOWN COMMENTS

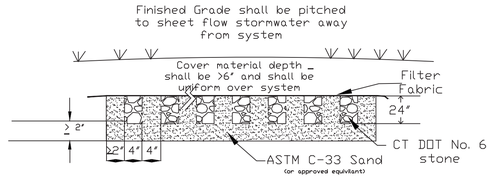
AESCHLIMAN LAND SURVEYING, PC
1379 MAIN STREET
EAST HARTFORD, CONN. 06108
(860)-528-4881

DATE: 9-9-2020 | SCALE: AS SHOWN | MAP NO. 218005-1S

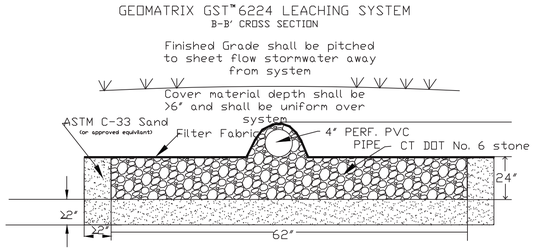
GEOMATRIX GST 6224 LEACHING SYSTEM



GEOMATRIX GST™6224 LEACHING SYSTEM
A-A' CROSS SECTION



GEOMATRIX GST™6224 LEACHING SYSTEM
B-B' CROSS SECTION



NOTES: (THE FOLLOWING NOTES MAY APPLY)

THE LEACHING AREA IS TO BE STRIPPED OF ALL UNSUITABLE SOILS AND FILLED WITH CLEAN SAND, LAID IN SIX INCH LIFTS. FILL TO BE MECHANICALLY COMPACTED TO 90% MAXIMUM DENSITY. A MINIMUM SEPERATION DISTANCE OF 18" BETWEEN THE MOTTLING/GROUND WATER LAYER AND BOTTOM OF THE LEACHING ARE MUST BE MAINTIANED.

INSTALLATION OF ALL SEWAGE DISPOSAL SYSTEMS SHALL NOT OCCUR DURING WET WEATHER TO AVOID SOIL SMEARING.

FILLING OF STRIPPED AREAS SHALL NOT BE PERMITTED WHILE SMEARING OF THE SOILS OCCURS, ALL SMEARED SURFACES SHALL BE RAKED OR PLOWED PRIOR TO ANY FILLING AND AS DIRECTED BY THE TOWN HEALTH DEPARTMENT.

"SELECT FILL MATERIAL" AND "SELECT BACK FILL MATERIAL", PLACED WITHIN AND ADJACENT TO PROPOSED LEACHING AREAS SHALL BE COMPRISED OF CLEAN SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE FILL MATERIAL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE APPROVED BY A PROFESSIONAL ENGINEER FOR USE WITHIN THE LEACHING AREA:

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 SIEVE DOES NOT EXCEED 5%.

THE RESPONSIBILITY FOR THE PREPARATION OF A LEACHING AREA UTILIZING "SELECT MATERIAL" IS THAT OF THE LICENSED INSTALLER. THE INSTALLER SHALL TAKE THE NECESSARY STEPS TO PROTECT THE UNDERLYING NATURALLY OCCURRING SOILS FROM OVERCOMPACTION AND SILTATION ONCE EXPOSED.

B. ENDS OF GST TRENCH TO BE CAPPED

Geomatrix GST™ Leaching System Installation Instructions

This installation procedure serves as a general overview of the installation procedure for Geomatrix GST. The system drawings should be strictly adhered to and an authorized representative of Geomatrix Systems, LLC must be present unless the contractor is certified by Geomatrix Systems.

1 Layout system
2 Prepare site and remove any trees with a drip line falling within 10 feet of the leaching system.
3 Excavate trench to specified elevation and a minimum of 66" wide.
4 Rake/scarify sidewall and bottom of trench to address any smearing of fines, and then do not walk in trench bottom.
5 Install a minimum of 2" of ASTM C-33 sand or CT approved select fill (select fill) in the bottom of the excavation and rake the sand bed level.
6 Set string and place wood strips along both sides of system location.
7 Set the GST forms on top of wood strips.
8 Place ASTM C-33 sand into void space between trench sidewall and GST form, including the area between what will become the stone fingers and uniformly compact.
9 Place clean CT DOT #6 stone into the interior of the GST form.
10 Pull first form and "leap frog" GST form ahead of last GST form.
11 Repeat sequence until desired trench length is installed.
12 Install distribution piping on top of, and in the center of, the GST leaching system.
13 Place stone around the distribution pipe.
14 Put approved filter fabric over the system.
15 Backfill system to ensure uniform cover exists over the top of the system (a minimum of 6" is required).
16 Finish grade over the system should ensure that storm water and sheet flow are diverted away from the leaching system, septic tank and pump tank if present.
17 Seed grass over disturbed area.
18 Maintain the area to prevent against tree roots from impacting the system.
19 Properly service the septic tank every 3 - 5 years or as advised by the regulatory agency or your service provider.
20 Fix leaking plumbing fixtures immediately.

*Notes: If the GST is to be installed under an area where vehicle traffic is likely, a minimum of 12" of cover as shown in H-20 detail is recommended to prevent soil compaction adjacent to the infiltrative surface.
Discharging a garbage disposal and/or water softener into septic system and GST leach field is NOT recommended.
Any questions call Geomatrix Systems 860-663-3993
01/28/08 © 2007 Geomatrix Systems, LLC

SANITARY SYSTEM DESIGN – 4 BEDROOM BUILDINGS

NUMBER OF BEDROOMS_____	(2)–2 BEDROOM UNITS PER BUILDING – 4 BEDROOMS TOTAL
PERCOLATION RATE_____	10.1–20 MIN./IN. (CONSERVATIVE DESIGN RATE)
ABSORPTION AREA REQUIRED_____	900 S.F. (MIN.)
USE GEOMATRIX GST 6224 @ 18.1 SF/LF_	50 L.F. REQ'D
USE 1 ROW @_____	50 L.F. EACH
50 LF GST 6224 x 18.1 SF/LF___	905 S.F. ELA PROVIDED
SEPTIC TANK CAPACITY_____	1,500 GAL.

SANITARY SYSTEM DESIGN – 2 BEDROOM BUILDINGS (EXCEPT UNITS 16 & 17)

NUMBER OF BEDROOMS_____	(1)–2 BEDROOM UNIT PER BUILDING – 2 BEDROOMS TOTAL
PERCOLATION RATE_____	10.1–20 MIN./IN. (CONSERVATIVE DESIGN RATE)
ABSORPTION AREA REQUIRED_____	500 S.F. (MIN.)
USE GEOMATRIX GST 6224 @ 18.1 SF/LF_	28 L.F. REQ'D
USE 1 ROW @_____	28 L.F. EACH
50 LF GST 6224 x 18.1 SF/LF___	506 S.F. ELA PROVIDED
SEPTIC TANK CAPACITY_____	1,000 GAL.

MLSS CALCULATIONS (EXCEPT UNITS 16 & 17)

RESTRICTIVE LAYER GREATER THAN 60" THEREFORE MLSS DOES NOT APPLY

TOTAL FLOW FOR SITE

25 (2) BEDROOM UNITS = 50 BEDROOMS TOTAL
150 GPD PER BEDROOM X 50 BEDROOMS = 7,500 GPD FOR SITE (TOTAL)

NOTES

ADDITIONAL SOILS TESTING MAY BE REQUIRED UPON COMPLETION OF SITE ROUGH GRADING.

PUMP SYSTEMS MAY BE REQUIRED FOR SYSTEMS SERVING UNITS 14 & 15 UNLESS FURTHER SOILS TESTING SHOWS DESIGN DEPTHS ARE ADEQUATE.

ALL SEPTIC TANKS SHALL BE PROVIDED WITH CLEANOUT MANHOLES NO LESS THAN 12" FROM THE FINISHED GRADE AND BE EQUIPPED WITH APPROVED OUTLET FILTER DEVICES. TANKS LOCATED DEEPER THAN 2.0 FEET BELOW FINISHED GRADE SHALL BE PROVIDED WITH A MINIMUM 24" DIAMETER ACCESS RISER

SEPTIC TANKS LESS THAN 50 FEET TO FOOTING DRAINS MAY BE REDUCED TO A MINIMUM 25 FOOT DISTANCE IF THE TANK IS DETERMINED TO BE WATERTIGHT.

SEPTIC TANKS BEING PROPOSED DEEPER THAN 3.5 FEET BELOW FINISHED GRADE OR LOCATED IN VEHICULAR TRAFFIC / PARKING AREAS MUST BE H–20 RATED

SANITARY SYSTEM DESIGN – 2 BEDROOM BUILDINGS UNITS 16 & 17

NUMBER OF BEDROOMS_____	(1)–2 BEDROOM UNIT PER BUILDING – 2 BEDROOMS TOTAL
PERCOLATION RATE_____	5.1–10 MIN./IN.
ABSORPTION AREA REQUIRED_____	375 S.F. (MIN.)
USE 12" CONC. GALL. W/ STONE @ 5.9 SF/LF	64 L.F. REQ'D
USE 1 ROW @ 64 LF + 1 FT STONE ENDS 66	L.F. EACH
66 LF 12" GALLERY X 5.9 SF/LF___	389 S.F. ELA PROVIDED
SEPTIC TANK CAPACITY_____	1,000 GAL.

MLSS CALCULATIONS UNITS 16 & 17

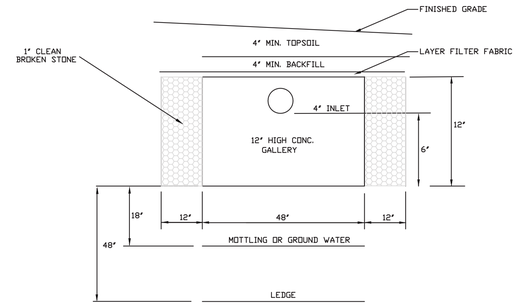
RESTRICTIVE LAYER: 23"
SLOPE: <1.0%

PERCOLATION RATE: 5.1–10 MIN./IN.

NUMBER OF BEDROOMS: 2

MLSS = HF X PF X FF

MLSS =(66) X (1.0) X (1.0) = 66 LF



12" CONC. GALLERY W/ STONE DETAIL
NOT TO SCALE

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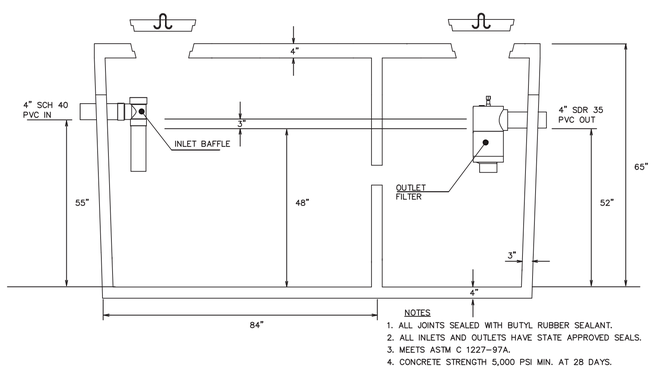
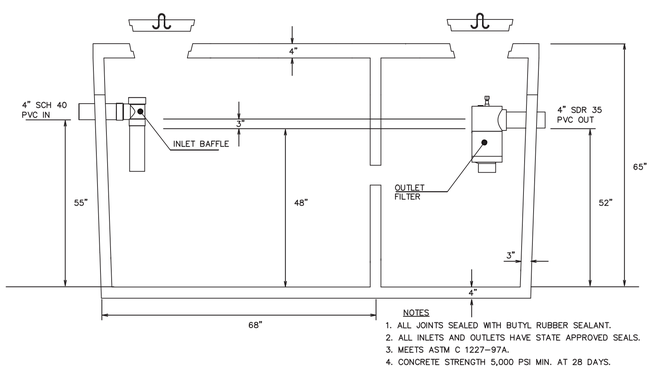


NOTES
1. ALL JOINTS SEALED WITH BUTYL RUBBER SEALANT.
2. ALL INLETS AND OUTLETS HAVE STATE APPROVED SEALS.
3. MEETS ASTM C 1227–97A.
4. CONCRETE STRENGTH 5,000 PSI MIN. AT 28 DAYS.

1,500 GAL. SEPTIC TANK DETAIL
NOT TO SCALE



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3. MEETS ASTM C 1227–97A.
4. CONCRETE STRENGTH 5,000 PSI MIN. AT 28 DAYS.

1,000 GAL. SEPTIC TANK DETAIL
NOT TO SCALE

I HEREBY DECLARE TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THIS PLAN IS SUBSTANTIALLY CORRECT.

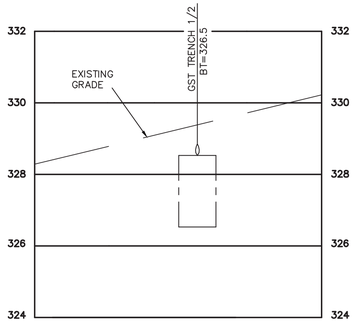
WESLEY J. WENTWORTH P.E. # 20360

WENTWORTH CIVIL ENGINEERS LLC
177 WEST TOWN ST.
LEBANON, CT 06249
TEL (860) 642-7555
FAX (860) 642-2794
web: wentworthcivil.com

REV. 11–05–20 TOWN REVIEW COMMENTS
REV. 10–19–20 TOWN REVIEW COMMENTS

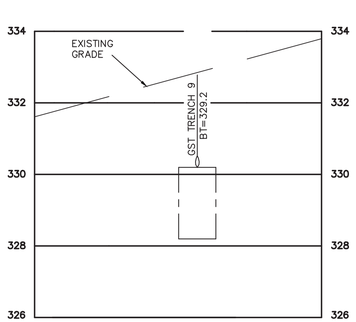
SEPTIC SYSTEM DESIGN, NOTES AND DETAILS
SOAPSTONE ESTATES
ELEANOR ROAD
PREPARED FOR
GINGRAS DEVELOPMENT, LLC
SOMERS, CONNECTICUT

DATE:	9–09–20
SCALE:	SHOWN
SHEET	12 OF 14
MAP NO.	20–022–1SD



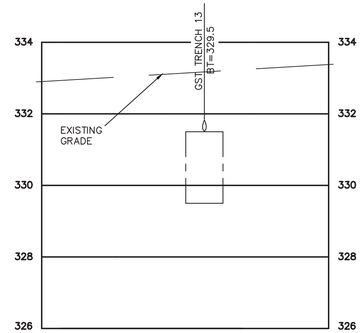
X-SECT. UNITS 1/2

SCALE : 1"=10' HORZ.
1"= 2' VERT.



X-SECT. UNIT 9

SCALE : 1"=10' HORZ.
1"= 2' VERT.



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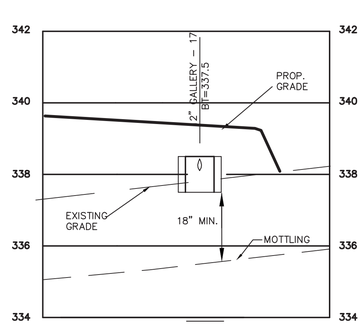
SCALE : 1"=10' HORZ.
1"= 2' VERT.



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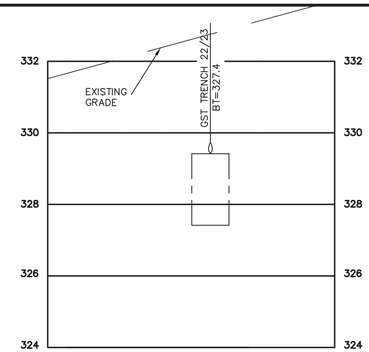
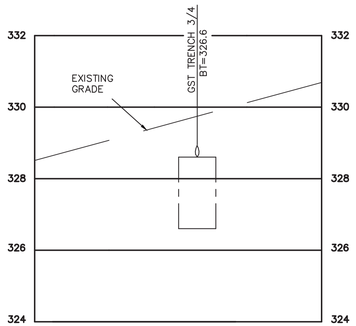
SCALE : 1"=10' HORZ.
1"= 2' VERT.



X-SECT. UNITS 22/23

SCALE : 1"=10' HORZ.
1"= 2' VERT.



X-SECT. UNITS 3/4

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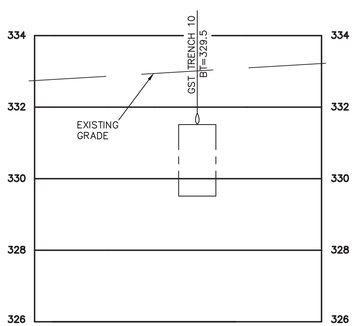
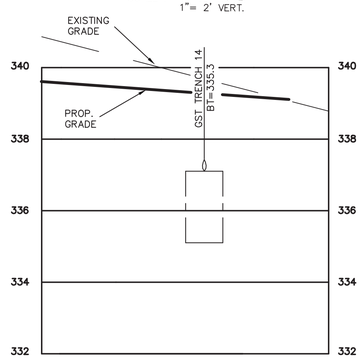
1"= 2' VERT.



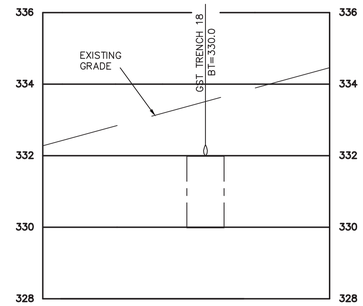
X-SECT. UNIT 10

SCALE : 1"=10' HORZ.
1"= 2' VERT.



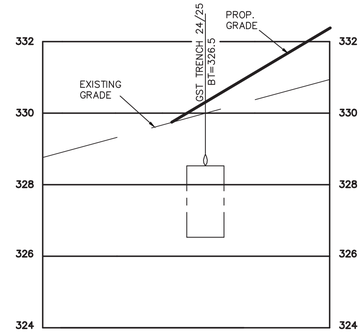
X-SECT. UNIT 14

SCALE : 1"=10' HORZ.
1"= 2' VERT.



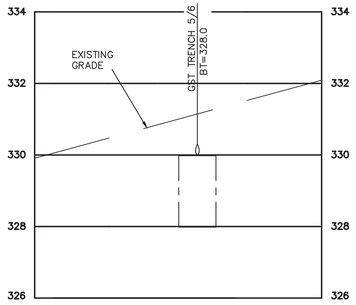
X-SECT. UNIT 18

SCALE : 1"=10' HORZ.
1"= 2' VERT.



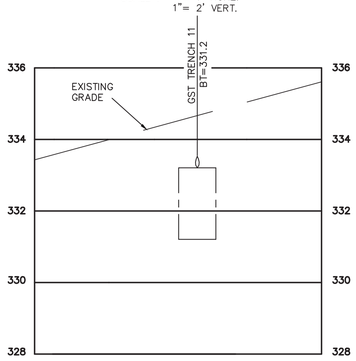
X-SECT. UNITS 24/25

SCALE : 1"=10' HORZ.
1"= 2' VERT.



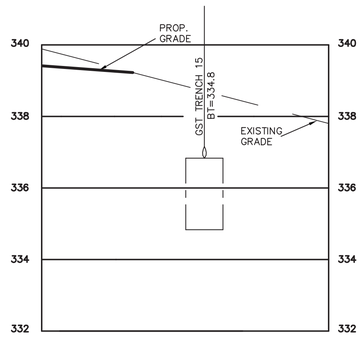
X-SECT. UNITS 5/6

SCALE : 1"=10' HORZ.
1"= 2' VERT.



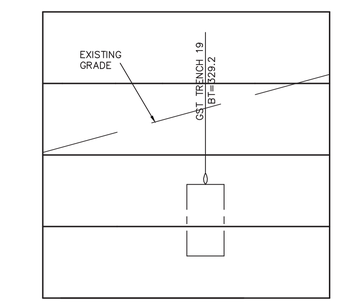
X-SECT. UNIT 11

SCALE : 1"=10' HORZ.
1"= 2' VERT.



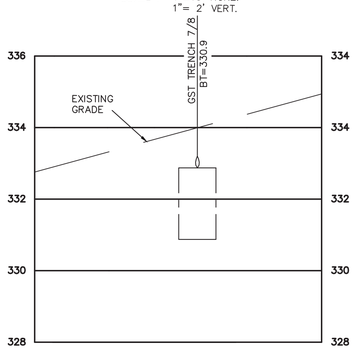
X-SECT. UNITS 15

SCALE : 1"=10' HORZ.
1"= 2' VERT.



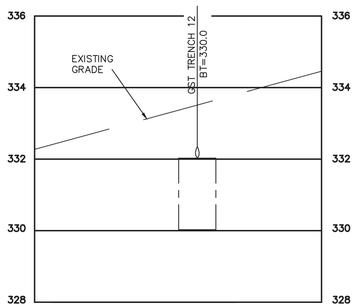
X-SECT. UNIT 19

SCALE : 1"=10' HORZ.
1"= 2' VERT.



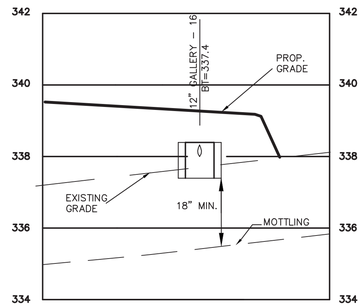
X-SECT. UNITS 7/8

SCALE : 1"=10' HORZ.
1"= 2' VERT.



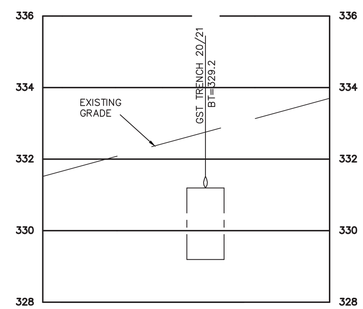
X-SECT. UNIT 12

SCALE : 1"=10' HORZ.
1"= 2' VERT.



X-SECT. UNIT 16

SCALE : 1"=10' HORZ.
1"= 2' VERT.



X-SECT. UNITS 20/21

SCALE : 1"=10' HORZ.
1"= 2' VERT.

WENTWORTH CIVIL ENGINEERS LLC
177 WEST TOWN ST.
LEBANON, CT 06249
TEL (860) 642-7553
FAX (860) 642-2794
web: wentworthcivil.com

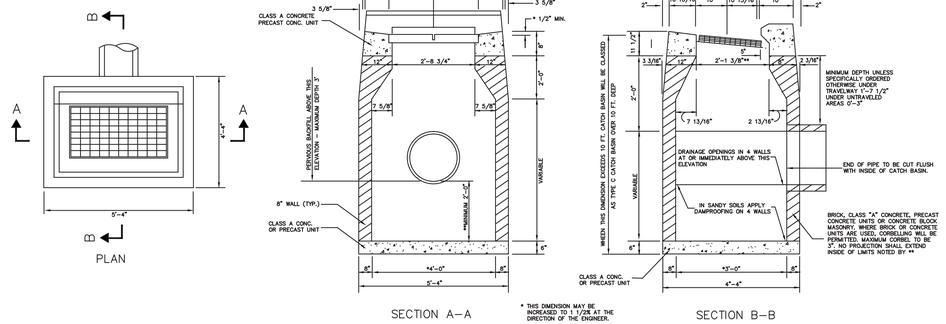
I HEREBY DECLARE TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS PLAN IS SUBSTANTIALLY CORRECT.

WESLEY J. WENTWORTH P.E. # 20360

SEPTIC SYSTEM DESIGN, NOTES AND DETAILS
SOAPSTONE ESTATES
ELEANOR ROAD
PREPARED FOR
GINGRAS DEVELOPMENT, LLC
SOMERS, CONNECTICUT

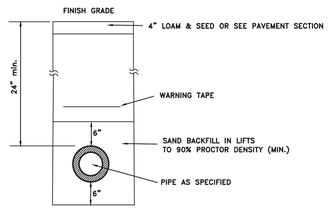
REV. 11-05-20 TOWN REVIEW COMMENTS
REV. 10-19-20 TOWN REVIEW COMMENTS

DATE: 9-09-20
SCALE: SHOWN
SHEET 13 OF 14
MAP NO. 20-022-1XS



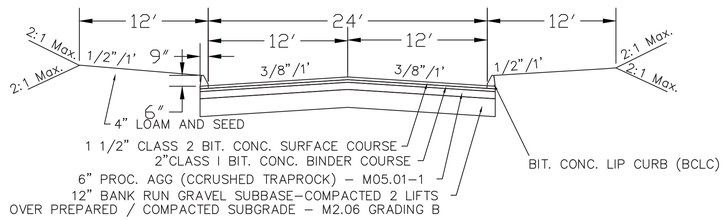
TYPE C CATCH BASIN

NOT TO SCALE



STORM TRENCH DETAIL

NOT TO SCALE



TYPICAL ROAD CROSS SECTION

NOT TO SCALE

PLANT MATERIAL– STORMWATER POND BOTTOM PLANTS

ZONE 1 – ELEVATION 323.0

KEY	NAME	SIZE	QUANT.
SL	NORTHERN ARROWHEAD	2" PLUG	147–3' O.C.
SA	COMMON THREE SQUARE	2" PLUG	147–3' O.C.
SV	SOFT STEM BULRUSH	2" PLUG	147–3' O.C.
SP	BURREED	2" PLUG	147–3' O.C.

ZONE 2 – ELEVATION 323.0 – 324.0

KEY	NAME	SIZE	QUANT.
CC	FRINGED SEDGE	2" PLUG	73–3' O.C.
CA	HOP SEDGE	2" PLUG	73–3' O.C.
CS	BROOM SEDGE	2" PLUG	73–3' O.C.
CT	RUSSOCK SEDGE	2" PLUG	73–3' O.C.

PLANT MATERIAL– STORMWATER POND SHRUBS

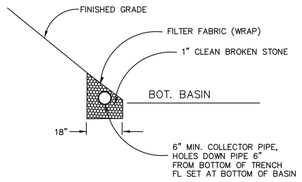
KEY	NAME	SIZE	QUANT.
CO	BUTTONBUSH	2–3'	15 – 6' O.C.
CS	RED OSIER DOGWOOD	2–3'	10 – 6' O.C.
IV	WINTERBERRY HOLLY	2–3'	11 – 6' O.C.
VT	AMERICAN CRANBERRY BUSH	2–3'	10 – 6' O.C.

PLANTING NOTES

1. PRIOR TO SHRUB & PLUG PLANTING - STORMWATER BASIN BOTTOM SHALL HAVE 12" LAYER OF SOIL WITH A MINIMUM OF 25% ORGANICS. STORMWATER BASIN BOTTOM AND SIDESLOPES ARE TO BE PLOWED, HARROWED AND SEEDED WITH WETLAND SEED MIX (SEE BELOW). HAND RAKE SEEDS INTO SOIL AFTER APPLICATION
2. SHRUBS & PLUGS TO BE PLANTED WITH A PLANTING SPADE
3. SEEDING MIXTURE TYPE I -BOTTOM OF POND TO BE PLANTED WITH NEW ENGLAND WETLAND PLANTS, INC. WETMIX AT A RATE OF 1 POUND PER 2,500 SF.
3. SEEDING MIXTURE TYPE II -SIDES OF POND TO BE PLANTED WITH NEW ENGLAND WETLANDS PLANTS, INC. CONSERVATION / WILDLIFE MIX AT A RATE OF 1 POUND PER 2,500 SF.

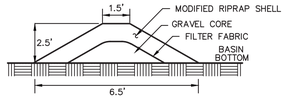
OUTLET STRUCTURE DETAIL

(NO SCALE)



DETENTION BASIN UNDER DRAIN DETAIL

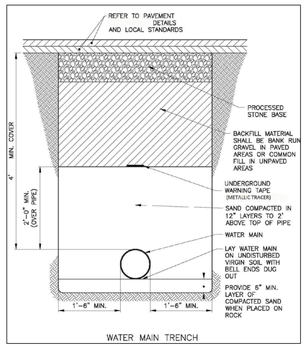
NOT TO SCALE



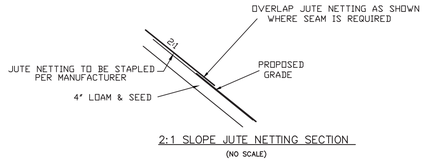
NOTES:
1. GRAVEL CORE TO CONSIST OF CLEAN, BANK RUN GRAVEL.

DETENTION BASIN FORECHAMBER FILTER BERM DETAIL

NOT TO SCALE



NO SCALE



2:1 SLOPE JUTE NETTING SECTION

(NO SCALE)

STORMWATER BASIN PLANTING PLAN

SCALE: 1"=20'

I HEREBY DECLARE TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THIS PLAN IS SUBSTANTIALLY CORRECT.

WESLEY J. WENTWORTH P.E. # 20360

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GENERAL NOTES AND DETAILS

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SHEET 14 OF 14

MAP NO. 20-022-1SD