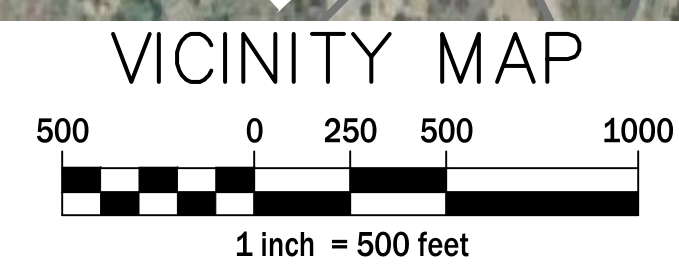
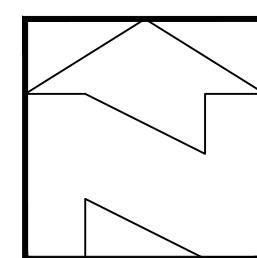


PARCEL A BRICK TOP LANE & 163 NORTH WINDHAM ROAD

PERMITTING DRAWINGS
WINDHAM, CONNECTICUT
ASSESSOR'S MAP 6-5, LOT 236-21



APPLICANT
LSE HOROLOGIUM LLC
40 TOWER LANE
AVON, CT

OWNER
CONCKLIN TRUSTEES
163 NORTH WINDHAM ROAD
WINDHAM, CT

ENVIRONMENTAL CONSULTANT
ALL-POINTS TECHNOLOGY CORPORATION, P.C.
567 VAUXHALL STREET EXTENSION, SUITE 311
WATERFORD, CT

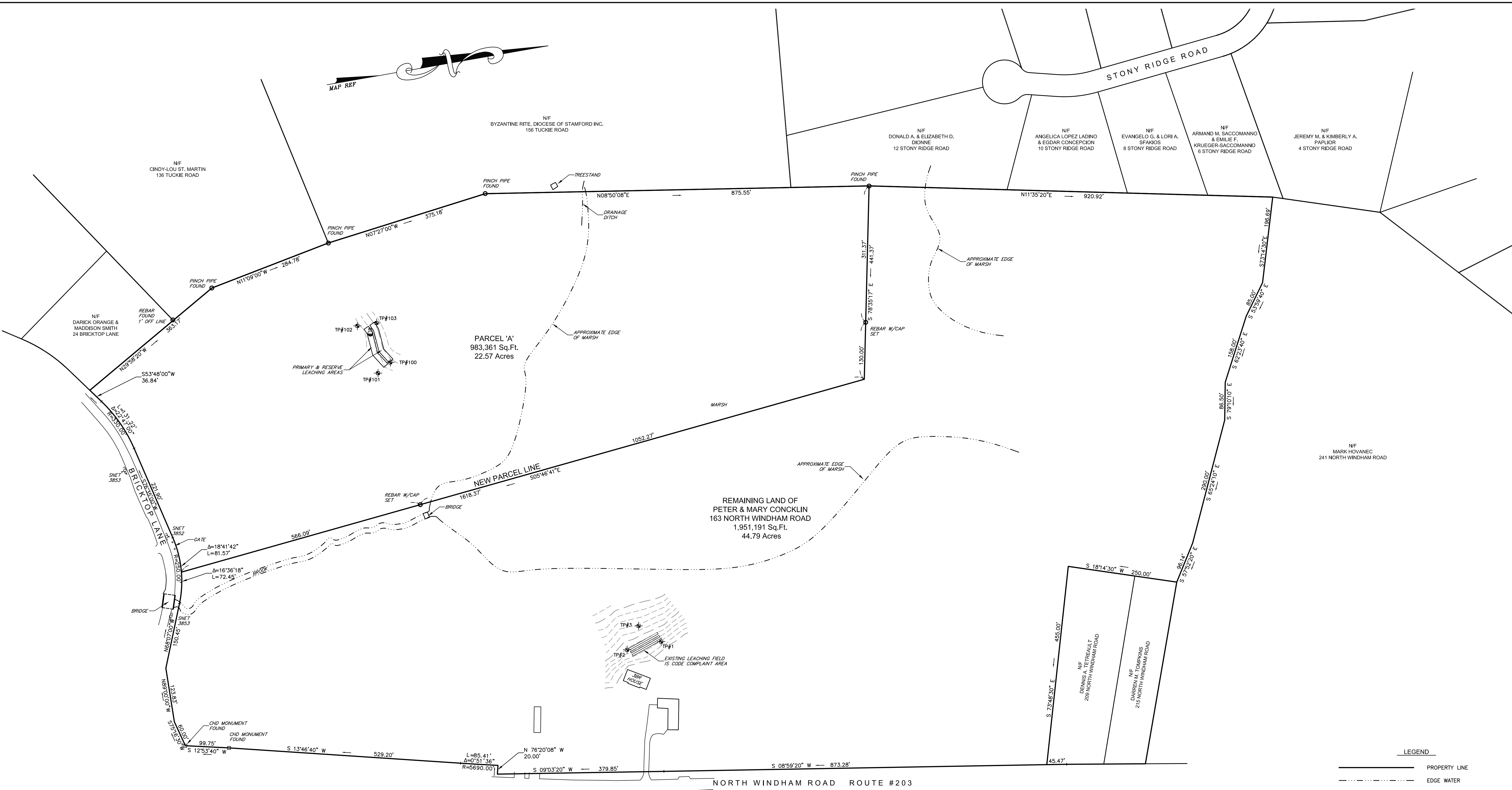
ENGINEER
CIVIL 1
43 SHERMAN HILL ROAD, SUITE D-101
WOODBURY, CT

| SHEET NUMBER | DESCRIPTION |
|--------------|--|
| 1 OF 1 | ZONING LOCATION SURVEY |
| C - 1.1 | EXISTING CONDITIONS MAP |
| C - 2.1 | PROPOSED SOLAR ARRAY LAYOUT |
| C - 2.2 | GRADING & DRAINAGE PLAN - AREAS A & B |
| C - 2.3 | GRADING & DRAINAGE PLAN - AREA C ACCESS DRIVE |
| C - 2.4 | GRADING & DRAINAGE PLAN - AREA C |
| C - 3.2 | EROSION CONTROL PLAN - AREAS A & B |
| C - 3.3 | EROSION CONTROL PLAN - AREA C ACCESS DRIVE |
| C - 3.4 | EROSION CONTROL PLAN - AREA C |
| C - 4.1 | NORTHERN ACCESS DRIVE PROFILE |
| C - 4.2 | SOUTHERN ACCESS DRIVE PROFILE & WETLANDS CROSSINGS |
| C - 5.1 | DETAILS |
| C - 5.2 | DETAILS |
| C - 6.1 | GENERAL NOTES AND EROSION CONTROL NOTES |
| C - 6.2 | ENVIRONMENTAL PROTECTION NOTES |



CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY CONNECTICUT (203) 266-0778

MARCH 17, 2023
REVISED MAY 31, 2023



NOTES:

- THIS MAP AND SURVEY HAVE BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20, "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT". THIS IS A PROPERTY SURVEY OF PARCEL 'A' BASED ON A DEPENDANT RESURVEY AND A ORIGINAL SURVEY OF THE NEW PROPERTY LINE CONFORMING TO HORIZONTAL ACCURACY CLASS A-2. THE BOUNDARY OF THE REMAINING LAND IS AS DEPICTED IN THE SURVEY REFERENCED IN NOTE 3.A AND CONFORMS TO HORIZONTAL ACCURACY CLASS D.
- BEARINGS DEPICTED ON THIS PLAN ARE BASED ON THE MAP REFERENCED IN NOTE 3.A. ELEVATIONS ARE BASED ON AN ASSUMED DATUM.
- MAP REFERENCES:
 A. "PROPERTY OF CHARLES & BETTY DONDERO WINHAM, CONN" BY HARRY K. MEGSON, PE & LS HEBRON, CONN. DATE: 9-20-77. SCALE: 1"=100'. MAP NO: 23-77-1.
 B. "SUBSURFACE SEWAGE DISPOSAL DESIGN PREPARED FOR PETER CONCKLIN 163 NORTH WINDHAM ROAD NORTH WINDHAM, CONNECTICUT" BY DATUM ENGINEERING & SURVEYING, LLC. DATED: 9/23/2009.
- IMPROVEMENTS DEPICTED ON PARCEL 'B' ARE AS DEPICTED ON THE PLAN REFERENCED IN NOTE 3.B. AND ARE NOT THE RESULT OF A FIELD SURVEY.

I HEREBY DECLARE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

Eric R. Peterson
 ERIC R. PETERSON
 L.S. 23430
 REGISTRATION NO.

PRIMARY & RESERVE LEACHING AREAS FOR PARCEL 'A'
 4-BEDROOM HOUSE
 PERCOLATION RATE: <10.1 MIN/IN
 577.5 SF ELA REQUIRED

MLSS:
 DEPTH TO RESTRICTIVE: 18.0-22.0"
 HYDRAULIC GRADIENT: 10.1-15.0%
 HF=28
 FF=1.75
 PF=1.0
 MLSS=28x1.75x1.0=49

PROVIDED:
 2 ROWS STONE TRENCH (3 SF/LF) 97 FEET LONG
 OR 582 SF ELA

TEST PIT DATA:
 OBSERVED BY: LUIGI SATORI NORTH CENTRAL DISTRICT HEALTH DEPARTMENT & ERIC R. PETERSON, P.E. GARDNER & PETERSON ASSOCIATES, LLC

10/15/2020:
 TP 100:
 0-6" TOPSOIL
 6-18" FINE SANDY LOAM
 18-58" SLIGHTLY COMPACT SAND & GRAVEL
 NO MOTTLING, NO SEEPAGE, NO LEDGE

TP 101:
 0-6" TOPSOIL
 6-19" FINE SANDY LOAM
 19-52" SLIGHTLY COMPACT SAND & GRAVEL
 NO MOTTLING, NO SEEPAGE, NO LEDGE

TP 102:
 0-10" TOPSOIL
 10-22" FINE SANDY LOAM
 22-60" COMPACT TILL
 MOTTLING @ 22", NO SEEPAGE, NO LEDGE

TP 103:
 0-6" TOPSOIL
 6-19" FINE SANDY LOAM W/ COBBLES
 19-54" SLIGHTLY COMPACT SAND & GRAVEL
 NO MOTTLING, NO SEEPAGE, NO LEDGE

TEST PIT DATA:
 OBSERVED BY: RICK ZULICK, R.S.

9/16/2009
 TP 1:
 0-9" TOPSOIL
 9-30" YELLOWISH BROWN LOAMY FINE SAND
 30-84" GRAVEL
 NO MOTTLING NO WATER
 NO LEDGE

TP 2:
 0-8" TOPSOIL
 8-37" LOAMY FINE SAND
 37-76" BROWNISH YELLOW LOAMY FINE SAND
 76-90" GRAVEL
 NO MOTTLING NO WATER
 NO LEDGE

TP 3:
 0-8" TOPSOIL
 8-84" GRAVEL
 NO MOTTLING NO WATER
 NO LEDGE

PERCOLATION TEST DATA:
 BY: ERIC R. PETERSON, P.E. GARDNER & PETERSON ASSOCIATES, LLC

10/15/2020:
 BETWEEN TP 100 & TP 103
 PRESOAK @ 11:00
 DEPTH=18"
 MARK AT GRADE
 TIME DEPTH
 11:25 6"
 11:35 12"
 11:40 13 1/2"
 11:50 15"
 12:00 16 1/2"
 12:07 DRY
 RATE = 7 MIN/IN

BY: DATUM ENGINEERING & SURVEYING LLC
 9/16/2009
 PRESOAK @ 10:54
 TIME DEPTH
 12:07 38"
 12:08 40"
 12:09 41"
 12:10 42 1/4"
 12:11 43 3/8"
 12:12 43 3/8"
 12:13 44 1/2"
 12:14 45 1/4"
 12:15 46"
 12:16 46 1/2"
 RATE = 1.4 MIN/IN

LEGEND

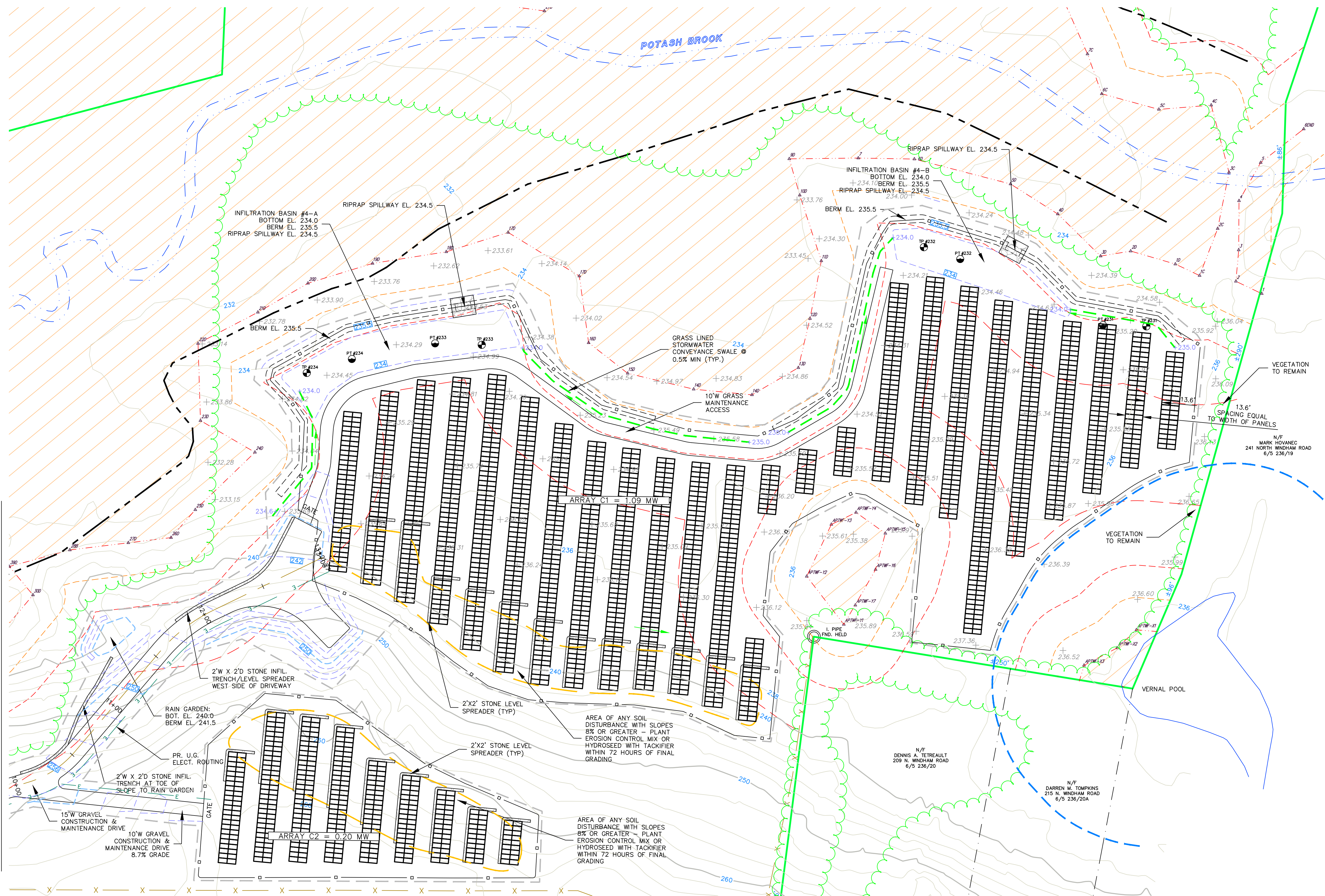
| | |
|--|----------------------------|
| | PROPERTY LINE |
| | EDGE WATER |
| | IRON PIN/PIPE FOUND OR SET |
| | CONC. MONUMENT FOUND |
| | UTILITY POLE |
| | TEST PIT |
| | PERCOLATION TEST |
| | ELEVATION CONTOUR |

PROPERTY SURVEY
 PORTION OF LAND OF
PETER & MARY CONCKLIN
 163 NORTH WINDHAM ROAD & BRICKTOP LANE
 NORTH WINDHAM, CONNECTICUT

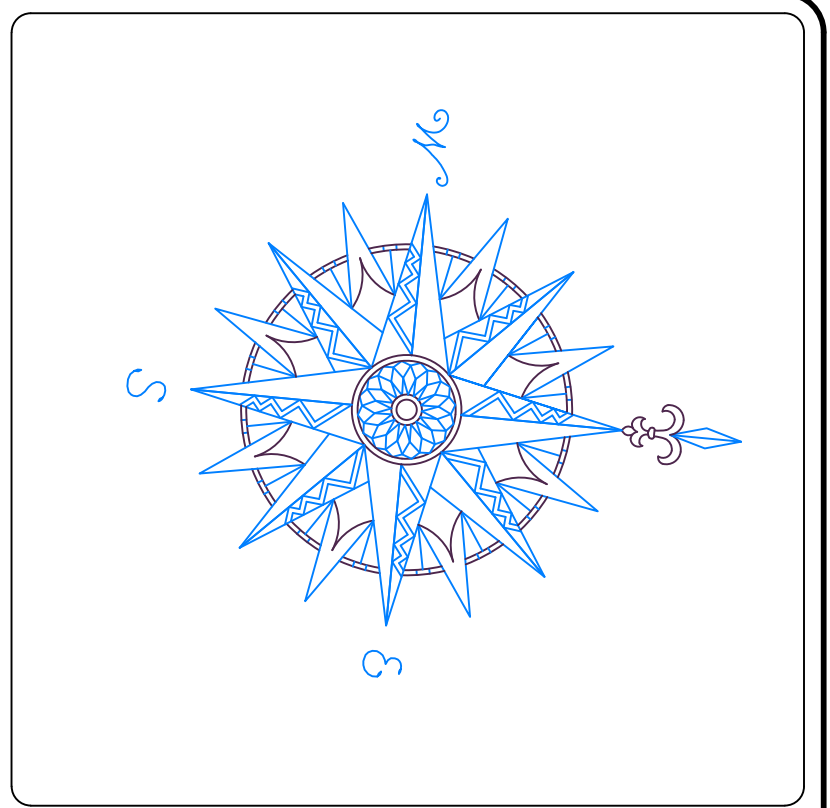
GARDNER & PETERSON ASSOCIATES, LLC
 178 HARTFORD TURNPIKE
 TOLLAND, CONNECTICUT
 PROFESSIONAL ENGINEERS LAND SURVEYORS

| | | | | | |
|-----------|--------|---------|------------|-----------|---------|
| REVISIONS | BY | SCALE | DATE | SHEET NO. | MAP NO. |
| | E.R.P. | 1"=100' | 10-25-2020 | 1 OF 1 | 10901A |

G:\Projects\10901A\10901A.dwg 10-25-2020 10:52:14 AM
 10901A.dwg 10901A.dwg



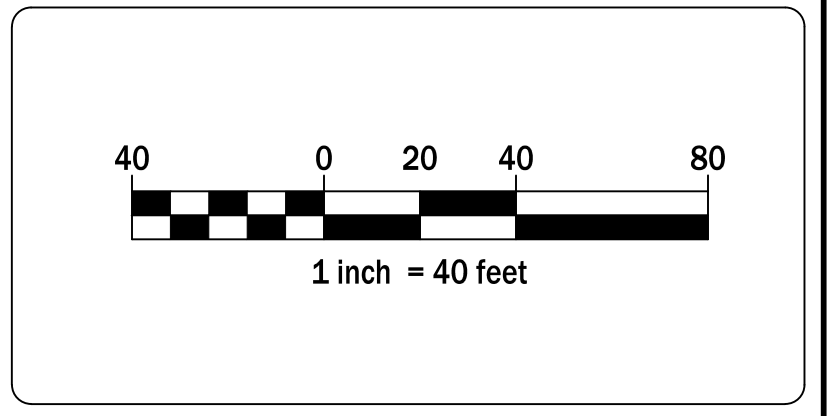
MATCH LINE SHEET C-2.3



| NO. | REVISION | DATE |
|-----|-------------------------|---------|
| 1 | REV. SOLAR ARRAY LAYOUT | 5/11/23 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Previous Editions Obsolete

LSE HOROLOGIUM LLC
40 TOWER LANE
AVON, CT



GRADING & DRAINAGE PLAN
AREA C

PARCEL A BRICK TOP
LANE & 163 NORTH
WINDHAM ROAD

WINDHAM CONNECTICUT

CIVIL C1

CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY CONNECTICUT
(203) 266-0778

| | |
|--|---|
| DRAWING NO.: C-2.4 SCALE: 1" = 40' DATE: 17 MAR 23 PROJ. NO.: 3983 CARD FILE NAME: 3983 DRAWING NO.: | DRAWN: BB APPROVED: CJ DATE: 17 MAR 23 PROJ. NO.: 3983 CARD FILE NAME: 3983 DRAWING NO.: |
|--|---|

SOIL TESTING RESULTS

| | | | |
|--|---|---|--|
| Infiltration Test #231 February 16, 2023 Depth of Hole: = 20" Presoak: 09:45AM Time Reading 02:40 7" 02:50 13-7/8" 03:00 16-7/8" 03:10 19" 03:20 20-7/8" 03:30 21-7/8" 03:40 22-7/8" Percolation Rate = 1-10 minutes per inch | Infiltration Test #233 February 16, 2023 Depth of Hole: = 21" Presoak: 11:10AM Time Reading 02:40 7-5/8" 02:50 25-5/8" 03:00 27-1/2" 03:10 28-1/8" 03:20 28-1/2" 03:30 28-7/8" 03:40 29-1/4" Percolation Rate = 20.1-30 minutes per inch | Deep Test Pit #231 Feb 16, 2023 0-8" Topsoil 8-36" Fine Brown Silty Sand 36-42" Dark Organic Sand 42-98" Light Grey Fine Sand Mottling at 38" Groundwater Seep at 40" No Standing Groundwater No Ledge | Deep Test Pit #233 Feb 16, 2023 0-10" Topsoil 10-26" Orange Fine Sandy Loam With Silt 26-48" Orange Fine Sandy Loam Bands With Grey Sand 48-96" Light Grey Fine Sand Mottling at 27" Groundwater Seep at 36" No Standing Groundwater No Ledge |
| Infiltration Test #232 February 16, 2023 Depth of Hole: = 22" Presoak: 10:10AM Time Reading 02:40 2" 02:50 2-1/4" 03:00 2-1/2" 03:10 2-3/4" 03:20 3" 03:30 3-1/4" 03:40 3-1/2" Percolation Rate = 40 minutes per inch | Infiltration Test #234 February 16, 2023 Depth of Hole: = 21" Presoak: 11:00AM Time Reading 02:40 11-1/2" 02:50 24-1/4" 03:00 28-1/8" 03:10 DRY Percolation Rate = 1-10 minutes per inch | Deep Test Pit #232 Feb 16, 2023 0-8" Topsoil 8-24" Brown Medium Sand 24-98" Light Grey Fine Sand Mottling at 32" Groundwater Seep at 27" Standing Groundwater at 96" No Standing Groundwater No Ledge | Deep Test Pit #234 Feb 16, 2023 0-9" Topsoil 9-24" Orange Brown Fine Sandy Loam With Silt 24-98" Orange Brown Sand 48-98" Light Grey Fine Sand Mottling at 22" Groundwater Seep at 36" No Standing Groundwater No Ledge |

LEGEND

| | |
|---|---|
| <ul style="list-style-type: none"> ——— PROPERTY LINE ——— EXISTING CONTOUR - - - - EXISTING SPOT GRADE - - - - PROPOSED CONTOUR - - - - PROPOSED SPOT GRADE - - - - WETLAND LINE - - - - 100' WETLAND BUFFER LINE - - - - 50' WETLAND BUFFER LINE - - - - 25' WETLAND BUFFER LINE - - - - 100' VERNAL POOL SETBACK - - - - 100 YEAR FLOOD PLAIN BASED ON FEMA MAPPING - - - - WETLAND FLAG - - - - WETLANDS AREA | <ul style="list-style-type: none"> ⊙ PROPOSED SOLAR PANELS ⊙ EXISTING WELL ⊙ EXISTING FENCE ⊙ EXISTING STONE WALL ⊙ PROPOSED ELECTRIC ⊙ TREE LINE ⊙ PROPOSED LIMITS OF CONSTRUCTION ⊙ DEEP TEST PIT LOCATION ⊙ INFILTRATION TEST LOCATION (BORE-HOLE METHOD) ⊙ PROPOSED CHAIN LINK FENCE |
|---|---|

