### 112 Old Wharf Septic Improvements Parking Schedule

#### Westside

**Days 1 Thru 10** – While the septic system for Westside Units 11-18 and C1-2 is installed parking will be limited to the front of the Westside parking lot. See attached highlighted plan.

**Days 11 Thru 16** - While the septic system for Westside Units 7-10 is installed parking will be limited to a small section at the front of the Westside parking and the rear of the parking lot. See attached highlighted plan.

**Days 17 Thru 24** – While removal of parking lot, installation of conduits, installation and grading of subbase and installation of binder asphalt course take place no parking will be available for the Westside parking lot. All parking will take place in the Eastside parking lot. We will assist in helping residents get items into their homes if necessary. After Day 24 Westside parking lot will be fully available for parking again.

### Eastside

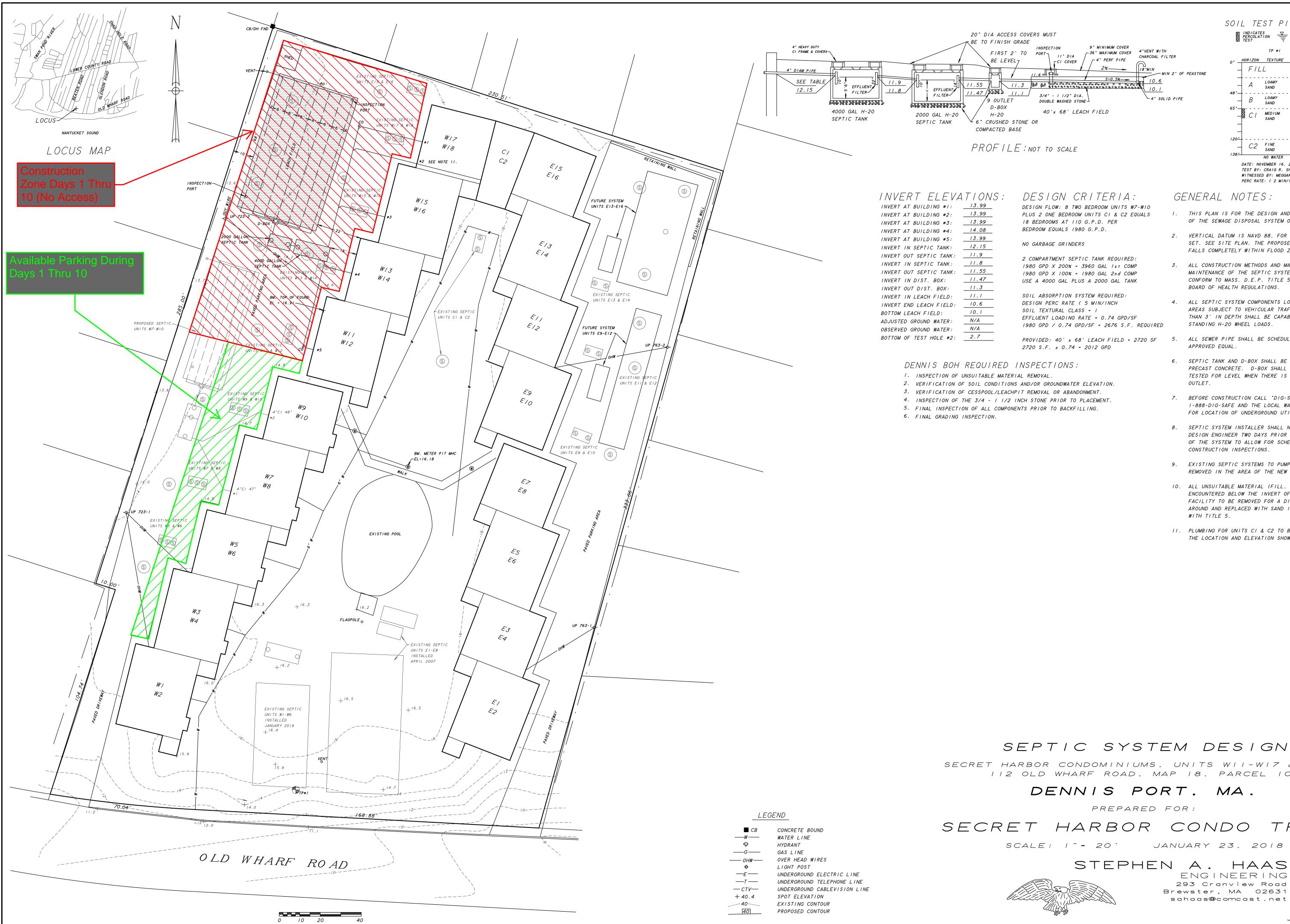
**Day 25 Thru 29** - While the septic system for Eastside Units 13-16 is installed parking will be limited to the front of the Eastside parking lot. See attached highlighted plan.

**Day 30 Thru 34** - While the septic system for Eastside Units 9-12 is installed parking will be limited to the front of the Eastside parking lot. See attached highlighted plan.

**Day 35 Thru 44** - While removal of parking lot, installation of conduits, installation and grading of subbase and installation of binder asphalt course take place no parking will be available for the Eastside parking lot. All parking will take place in the Westside parking lot. We will assist in helping residents get items into their homes if necessary. After Day 44 Eastside parking lot will be fully available for parking again.

### Asphalt Top Courses

When the Westside asphalt top course is installed, all parking will take place in the Eastside parking lot for 3 days after the installation. This procedure will be the same but reversed for the Eastside paving.



TIONS:	DESIGN CRITERIA:
/3.99	DESIGN FLOW: 8 TWO BEDROOM UNITS W7-WIO
/ 3.99	PLUS 2 ONE BEDROOM UNITS CI & C2 EQUALS
/3.99	18 BEDROOMS AT 110 G.P.D. PER
14.08	BEDROOM EQUALS 1980 G.P.D.
/3.99	
12.15	NO GARBAGE GRINDERS
11.9	
11.8	2 COMPARTMENT SEPTIC TANK REQUIRED:
//.55	1980 GPD X 200% - 3960 GAL 1st COMP 1980 GPD X 100% - 1980 GAI 2nd COMP
11.47	USE A 4000 GAL PLUS A 2000 GAL TANK
11.3	
11.1	SOIL ABSORPTION SYSTEM REQUIRED:
10.6	DESIGN PERC RATE < 5 MIN/INCH
10.1	soil textural class = i
 N/A	EFFLUENT LOADING RATE = 0.74 GPD/SF
 N/A	1980 GPD / 0.74 GPD/SF = 2676 S.F. REQUIREL
2.7	
	PROVIDED: 40' x 68' LEACH FIELD = 2720 SF
	2720  S.F. x  0.74 = 2012  GPD

TEST BY: CRAIG R. SHORT. PE WITNESSED BY: MEGGAN TIERNEY PERC RATE: { 2 MIN/INCH

48 -

65°-

120-

138-

- GENERAL NOTES:
- I. THIS PLAN IS FOR THE DESIGN AND CONSTRUCTION OF THE SEWAGE DISPOSAL SYSTEM ONLY.
- 2. VERTICAL DATUM IS NAVD 88. FOR BENCH MARKS SET. SEE SITE PLAN. THE PROPOSED SEPTIC SYSTEM FALLS COMPLETELY WITHIN FLOOD ZONE X.

SOIL TEST PIT DATAS

INDICATES PERCOLATION TEST ☐ INDICATES OBSERVED GROUNDWATER

TP #1

FILL

В

0 HORIZON TEXTURE COLOR 14.2

A LOAMY IOYR A SAND 5/I

CI MEDIUM IOYR SAND 7/8

LOAMY SAND

C2 FINE

SAND

DATE: NOVEMBER 16. 2006

NO WATER

10YR 6/8

---- 8.8

4.2

L 2.7

- 3. ALL CONSTRUCTION METHODS AND MATERIALS AND MAINTENANCE OF THE SEPTIC SYSTEM SHALL CONFORM TO MASS. D.E.P. TITLE 5 AND LOCAL BOARD OF HEALTH REGULATIONS.
- 4. ALL SEPTIC SYSTEM COMPONENTS LOCATED UNDER AREAS SUBJECT TO VEHICULAR TRAFFIC OR GREATER THAN 3' IN DEPTH SHALL BE CAPABLE OF WITH-STANDING H-20 WHEEL LOADS.
- 5. ALL SEWER PIPE SHALL BE SCHEDULE 40 PVC OR APPROVED EQUAL.
- 6. SEPTIC TANK AND D-BOX SHALL BE REINFORCED PRECAST CONCRETE. D-BOX SHALL BE WATER TESTED FOR LEVEL WHEN THERE IS MORE THAN ONE OUTLET.
- 7. BEFORE CONSTRUCTION CALL "DIG-SAFE". I-888-DIG-SAFE AND THE LOCAL WATER DEPT. FOR LOCATION OF UNDERGROUND UTILITIES.
- 8. SEPTIC SYSTEM INSTALLER SHALL NOTIFY THE DESIGN ENGINEER TWO DAYS PRIOR TO CONSTRUCTION OF THE SYSTEM TO ALLOW FOR SCHEDULING OF THE CONSTRUCTION INSPECTIONS.
- 9. EXISTING SEPTIC SYSTEMS TO PUMPED DRY AND REMOVED IN THE AREA OF THE NEW SYSTEM.
- IO. ALL UNSUITABLE MATERIAL (FILL, A & B HORIZONS) ENCOUNTERED BELOW THE INVERT OF THE LEACHING FACILITY TO BE REMOVED FOR A DISTANCE OF 5 AROUND AND REPLACED WITH SAND IN ACCORDANCE WITH TITLE 5.
- II. PLUMBING FOR UNITS CI & C2 TO BE RELOCATED TO THE LOCATION AND ELEVATION SHOWN.

SEPTIC SYSTEM DESIGN

SECRET HARBOR CONDOMINIUMS. UNITS WII-WI7 & CI-C2 112 OLD WHARF ROAD. MAP 18. PARCEL 104

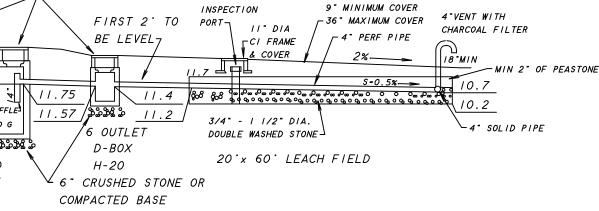
SECRET HARBOR CONDO TRUST JANUARY 23. 2018

ENGINEERING 293 Cranview Road Brewster, MA 02631 sahaas@comcast.net

JOB NO: 18-012C



20" MIN DIA ACCESS COVERS MUST BE TO FINISH GRADE

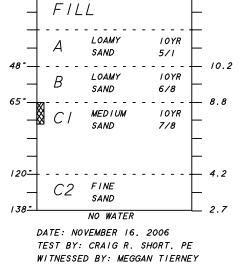


PROFILE: NOT TO SCALE

T / ONS : 12.96 12.88 12.0	DESIGN CRITERIA: DESIGN FLOW: 4 TWO BEDROOM UNITS W7-WIO 8 BEDROOMS AT IIO G.P.D. PER BEDROOM EQUALS 880 G.P.D.
<u> </u>	NO GARBAGE GRINDERS
<u> </u>	2 COMPARTMENT SEPTIC TANK REQUIRED: 880 GPD X 200% - 1760 GAL 1st COMP 880 GPD X 100% - 880 GAL 2nd COMP USE 3000 GALLON 2 COMPARTMENT TANK
N/A 2.7	SOIL ABSORPTION SYSTEM REQUIRED: DESIGN PERC RATE < 5 MIN/INCH SOIL TEXTURAL CLASS = I EFFLUENT LOADING RATE = 0.74 GPD/SF 880 GPD / 0.74 GPD/SF = II90 S.F. REQUIRED
	PROVIDED: 20' x 60' LEACH FIELD = 1200 SF 1200 S.F. x 0.74 = 888 GPD

- DENNIS BOH REQUIRED INSPECTIONS:
- 1. INSPECTION OF UNSUITABLE MATERIAL REMOVAL.
- 2. VERIFICATION OF SOIL CONDITIONS AND/OR GROUNDWATER ELEVATION.
- 3. VERIFICATION OF CESSPOOL/LEACHPIT REMOVAL OR ABANDONMENT. 4. INSPECTION OF THE 3/4 - I I/2 INCH STONE PRIOR TO PLACEMENT.
- 5. FINAL INSPECTION OF ALL COMPONENTS PRIOR TO BACKFILLING.

SOIL TEST PIT DATAS INDICATES PERCOLATION TEST ☐ INDICATES OBSERVED GROUNDWATER TP #1 0 HORIZON TEXTURE COLOR 14.2



PERC RATE: { 2 MIN/INCH

- GENERAL NOTES:
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- 2. VERTICAL DATUM IS NAVD 88. FOR BENCH MARKS SET. SEE SITE PLAN. THE PROPOSED SEPTIC SYSTEM FALLS COMPLETELY WITHIN FLOOD ZONE X.
- 3. ALL CONSTRUCTION METHODS AND MATERIALS AND MAINTENANCE OF THE SEPTIC SYSTEM SHALL CONFORM TO MASS. D.E.P. TITLE 5 AND LOCAL BOARD OF HEALTH REGULATIONS.
- 4. ALL SEPTIC SYSTEM COMPONENTS LOCATED UNDER AREAS SUBJECT TO VEHICULAR TRAFFIC OR GREATER THAN 3' IN DEPTH SHALL BE CAPABLE OF WITH-STANDING H-20 WHEEL LOADS.
- 5. ALL SEWER PIPE SHALL BE SCHEDULE 40 PVC OR APPROVED EQUAL.
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- 9. EXISTING SEPTIC SYSTEMS TO PUMPED DRY AND REMOVED IN THE AREA OF THE NEW SYSTEM.
- IO. ALL UNSUITABLE MATERIAL (FILL, A & B HORIZONS) ENCOUNTERED BELOW THE INVERT OF THE LEACHING FACILITY TO BE REMOVED FOR A DISTANCE OF 5' AROUND AND REPLACED WITH SAND IN ACCORDANCE WITH TITLE 5.

SEPTIC SYSTEM DESIGN

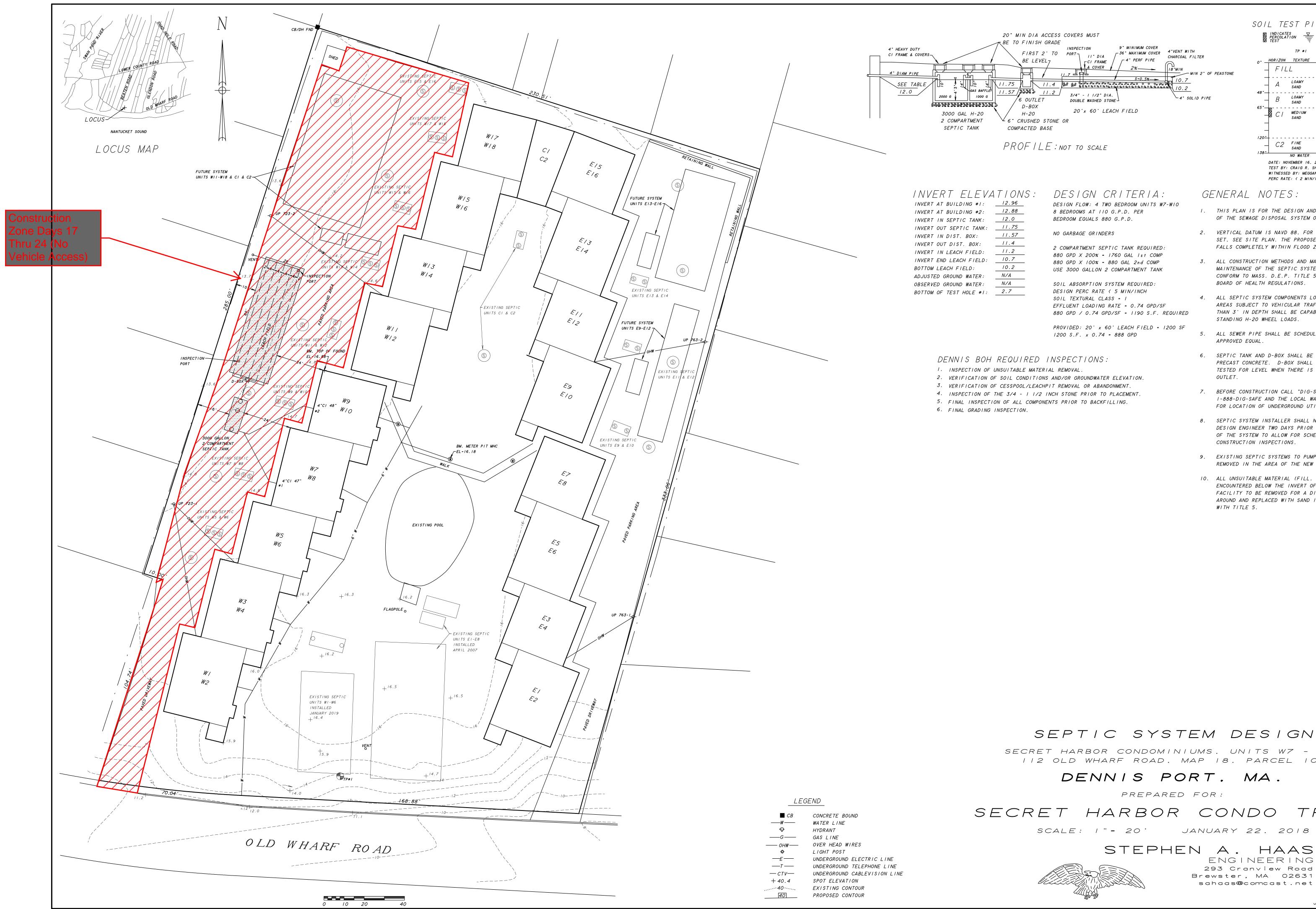
SECRET HARBOR CONDOMINIUMS. UNITS W7 - WIO 112 OLD WHARF ROAD. MAP 18. PARCEL 104

### DENNIS PORT. MA. PREPARED FOR:

SECRET HARBOR CONDO TRUST SCALE: 1" - 20' JANUARY 22. 2018

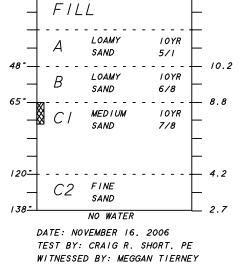
STEPHEN A. HAAS ENGINEERING 293 Cranview Road Brewster, MA 02631 sahaas@comcast.net

JOB NO: 18-012B



T / ONS : 12.96 12.88 12.0	DESIGN CRITERIA: DESIGN FLOW: 4 TWO BEDROOM UNITS W7-WIO 8 BEDROOMS AT IIO G.P.D. PER BEDROOM EQUALS 880 G.P.D.
<u> </u>	NO GARBAGE GRINDERS
<u> </u>	2 COMPARTMENT SEPTIC TANK REQUIRED: 880 GPD X 200% - 1760 GAL 1st COMP 880 GPD X 100% - 880 GAL 2nd COMP USE 3000 GALLON 2 COMPARTMENT TANK
N/A 2.7	SOIL ABSORPTION SYSTEM REQUIRED: DESIGN PERC RATE < 5 MIN/INCH SOIL TEXTURAL CLASS = I EFFLUENT LOADING RATE = 0.74 GPD/SF 880 GPD / 0.74 GPD/SF = II90 S.F. REQUIRED
	PROVIDED: 20' x 60' LEACH FIELD = 1200 SF 1200 S.F. x 0.74 = 888 GPD

SOIL TEST PIT DATAS INDICATES PERCOLATION TEST ☐ INDICATES OBSERVED GROUNDWATER TP #1 0 HORIZON TEXTURE COLOR 14.2



PERC RATE: { 2 MIN/INCH

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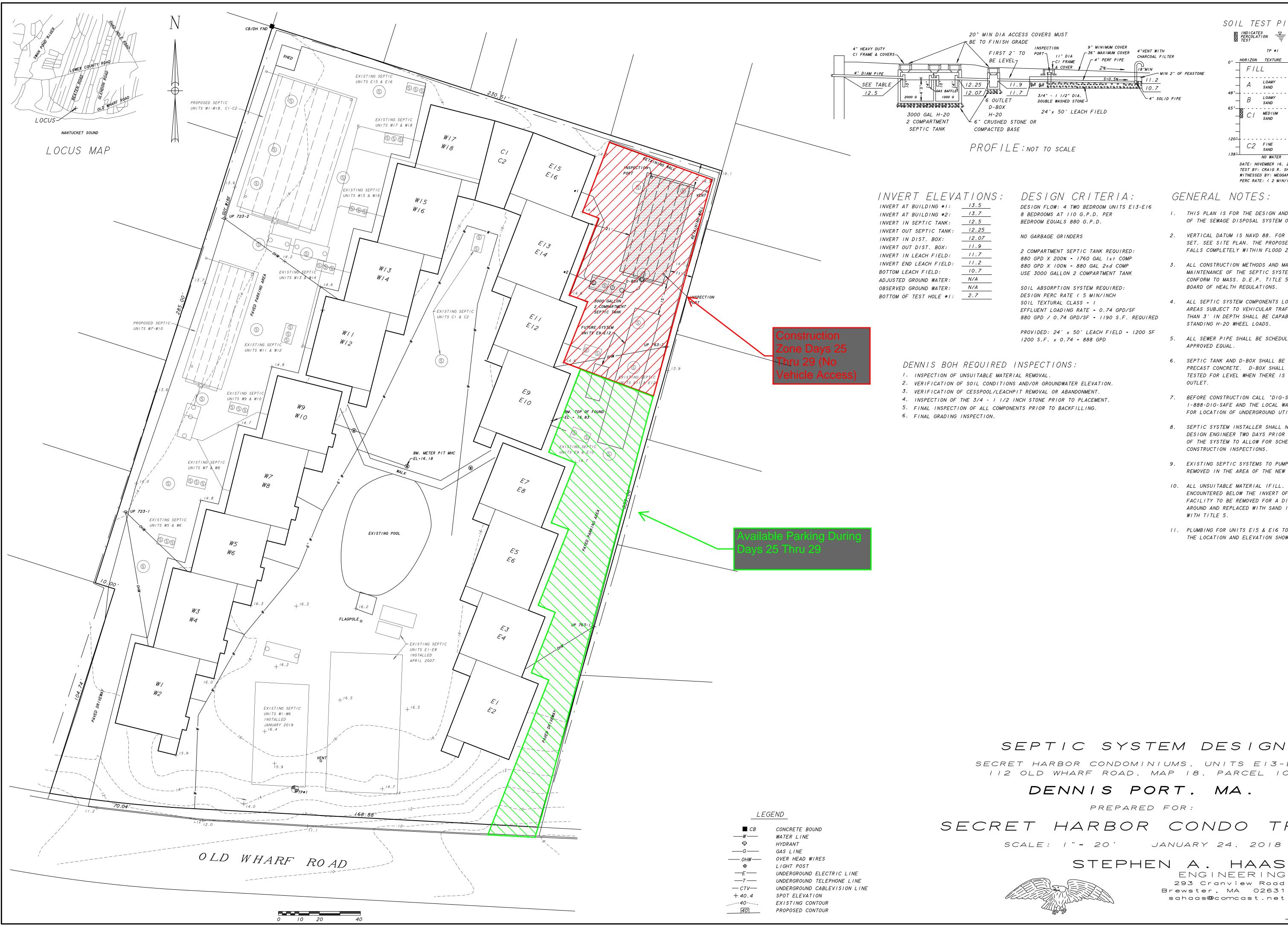
SEPTIC SYSTEM DESIGN

SECRET HARBOR CONDOMINIUMS. UNITS W7 - WIO 112 OLD WHARF ROAD. MAP 18. PARCEL 104

SECRET HARBOR CONDO TRUST

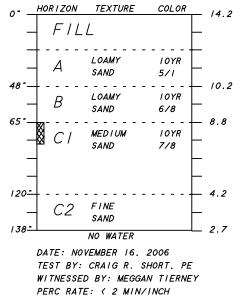
ENGINEERING 293 Cranview Road Brewster, MA 02631 sahaas@comcast.net

JOB NO: 18-012B



TIONS	: DESIGN CRITERIA:
13.5	DESIGN FLOW: 4 TWO BEDROOM UNITS EI3-EI6
13.7	8 BEDROOMS AT 110 G.P.D. PER
12.5	BEDROOM EQUALS 880 G.P.D.
12.07	NO GARBAGE GRINDERS
11.9	
	2 COMPARTMENT SEPTIC TANK REQUIRED:
	880 GPD X 200% = 1760 GAL 1st COMP
	880 GPD X 100% = 880 GAL 2nd COMP
10.7	USE 3000 GALLON 2 COMPARTMENT TANK
N/A	
N/A	SOIL ABSORPTION SYSTEM REQUIRED:
2.7	DESIGN PERC RATE < 5 MIN/INCH
	SOIL TEXTURAL CLASS = I
	EFFLUENT LOADING RATE = 0.74 GPD/SF
	880 GPD / 0.74 GPD/SF = 1190 S.F. REQUIRED
	PROVIDED: 24' x 50' LEACH FIELD = 1200 SF
	1200 S.F. x 0.74 = 888 GPD

SOIL TEST PIT DATAS INDICATES PERCOLATION TEST ☐ INDICATES OBSERVED GROUNDWATER TP #1



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- II. PLUMBING FOR UNITS EI5 & EI6 TO BE RELOCATED TO THE LOCATION AND ELEVATION SHOWN.

SEPTIC SYSTEM DESIGN

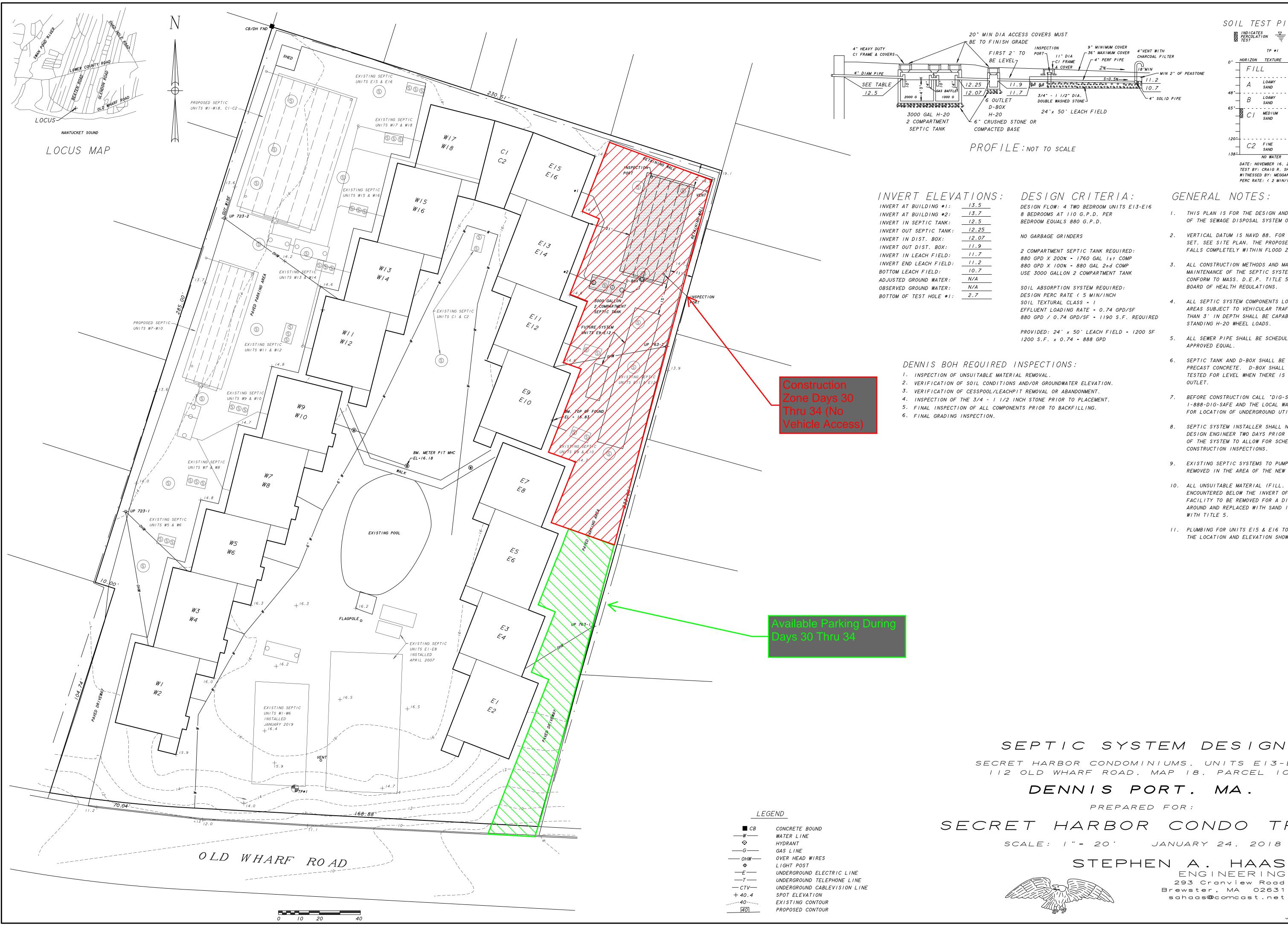
SECRET HARBOR CONDOMINIUMS. UNITS EI3-EI6 112 OLD WHARF ROAD. MAP 18. PARCEL 104

# DENNIS PORT. MA.

SECRET HARBOR CONDO TRUST JANUARY 24. 2018

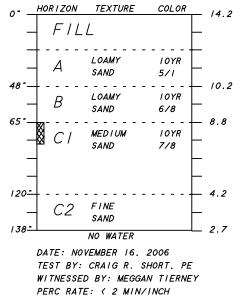
> ENGINEERING 293 Cranview Road Brewster, MA 02631 sahaas@comcast.net

> > JOB NO: 18-012D



TIONS	: DESIGN CRITERIA:
13.5	DESIGN FLOW: 4 TWO BEDROOM UNITS EI3-EI6
13.7	8 BEDROOMS AT 110 G.P.D. PER
12.5	BEDROOM EQUALS 880 G.P.D.
12.07	NO GARBAGE GRINDERS
11.9	
	2 COMPARTMENT SEPTIC TANK REQUIRED:
	880 GPD X 200% = 1760 GAL 1st COMP
	880 GPD X 100% = 880 GAL 2nd COMP
10.7	USE 3000 GALLON 2 COMPARTMENT TANK
N/A	
N/A	SOIL ABSORPTION SYSTEM REQUIRED:
2.7	DESIGN PERC RATE < 5 MIN/INCH
	SOIL TEXTURAL CLASS = I
	EFFLUENT LOADING RATE = 0.74 GPD/SF
	880 GPD / 0.74 GPD/SF = 1190 S.F. REQUIRED
	PROVIDED: 24' x 50' LEACH FIELD = 1200 SF
	1200 S.F. x 0.74 = 888 GPD

SOIL TEST PIT DATAS INDICATES PERCOLATION TEST ☐ INDICATES OBSERVED GROUNDWATER TP #1



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SEPTIC SYSTEM DESIGN

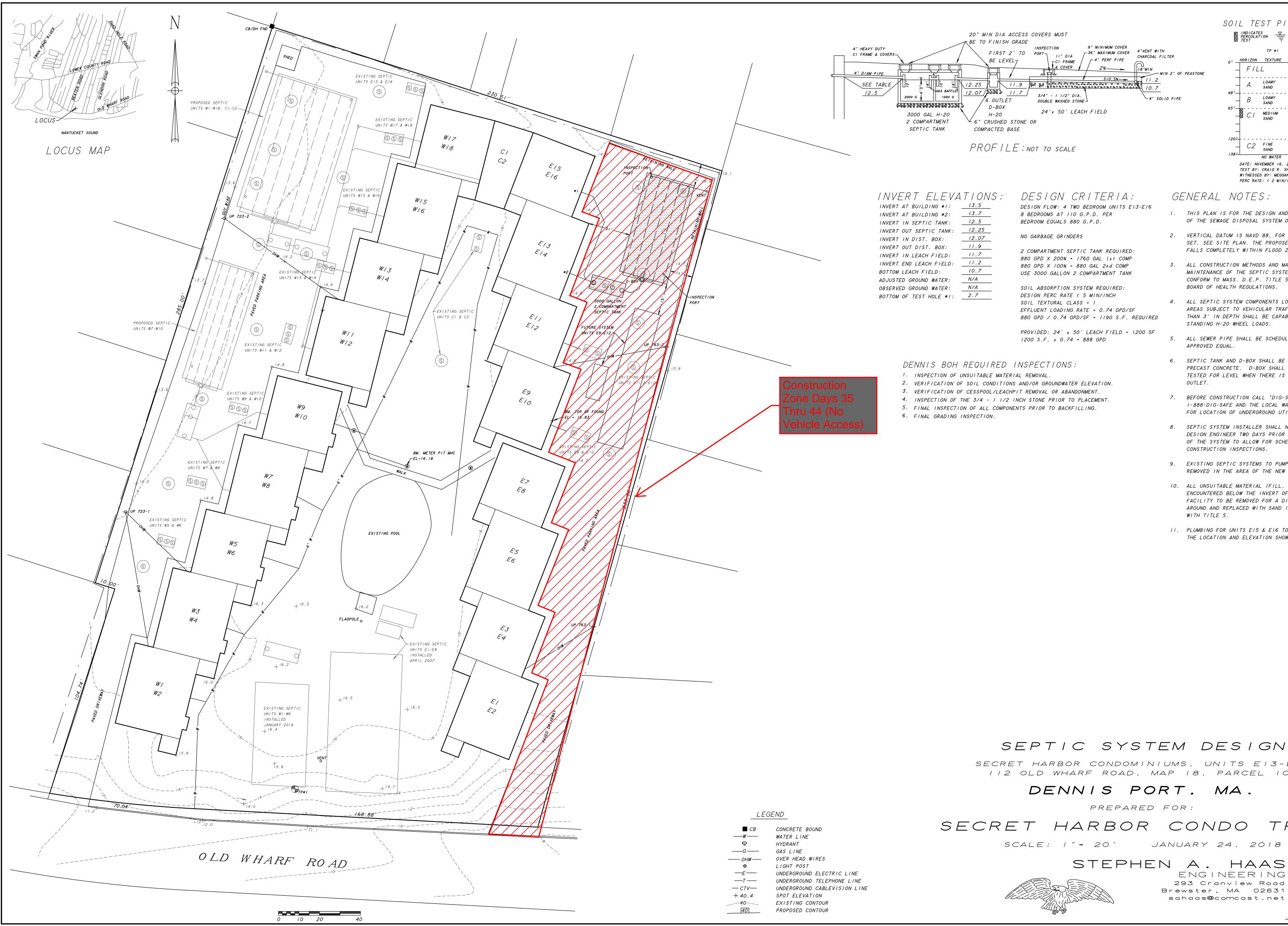
SECRET HARBOR CONDOMINIUMS. UNITS EI3-EI6 112 OLD WHARF ROAD. MAP 18. PARCEL 104

# DENNIS PORT. MA.

SECRET HARBOR CONDO TRUST SCALE: 1" - 20' JANUARY 24. 2018

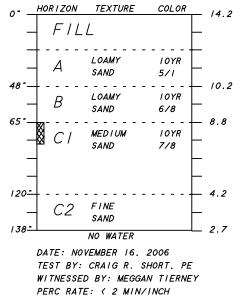
> ENGINEERING 293 Cranview Road Brewster, MA 02631 sahaas@comcast.net

> > JOB NO: 18-012D



TIONS	: DESIGN CRITERIA:
13.5	DESIGN FLOW: 4 TWO BEDROOM UNITS EI3-EI6
13.7	8 BEDROOMS AT 110 G.P.D. PER
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N/A	
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	880 GPD / 0.74 GPD/SF = 1190 S.F. REQUIRED
	PROVIDED: 24' x 50' LEACH FIELD = 1200 SF
	1200 S.F. x 0.74 = 888 GPD

SOIL TEST PIT DATAS INDICATES PERCOLATION TEST ☐ INDICATES OBSERVED GROUNDWATER TP #1



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SEPTIC SYSTEM DESIGN

SECRET HARBOR CONDOMINIUMS. UNITS EI3-EI6 112 OLD WHARF ROAD. MAP 18. PARCEL 104

# DENNIS PORT. MA.

SECRET HARBOR CONDO TRUST SCALE: 1" - 20' JANUARY 24. 2018

> ENGINEERING 293 Cranview Road Brewster, MA 02631 sahaas@comcast.net

> > JOB NO: 18-012D