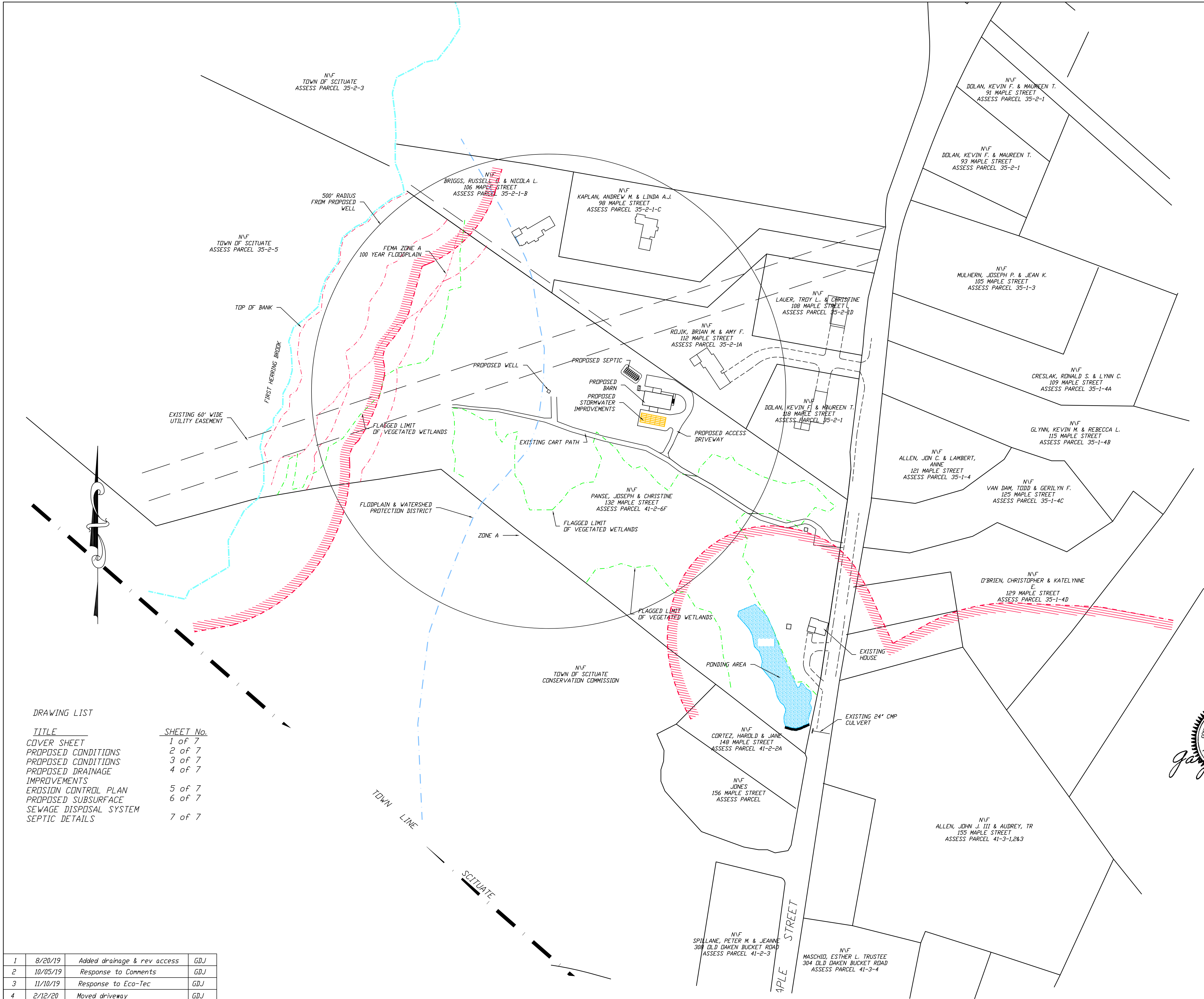




ZONING SUMMARY:
ZONE: RESIDENTIAL R-1
WATER RESOURCE PROTECTION DISTRICT
LOT AREA = 644,650± SQ. FT.
= 14.8± Acres

BUILDING REQUIREMENTS;	REQUIRED
MINIMUM LOT AREA	40,000 SQ. FT. ¹
LOT WIDTH	175'
FRONTAGE	100'
FRONT YARD SETBACK	30'
SIDE YARD SETBACK	15'
REAR YARD SETBACK	8'
BUILDING HEIGHT	35' OR 3 Stories ²
IMPERVIOUS COVERAGE ³	20% Max. (128,930 SQ. FT.)
EXISTING	1,012 SQ. FT.
PROPOSED	1,800 SQ. FT.

1. EXCLUSIVE OF ANY WETLANDS OR LAND SUBJECT TO FLOODING
2. WHICH EVER IS LOWER
3. NO GREATER THAN 2,500 SQ. FT. WITHOUT INFILTRATION

WETLANDS RESOURCE SUMMARY:

LOT AREA = 644,650± SQ. FT. (14.8± Acres)

BORDERING VEGETATED WETLANDS	306,950 SQ. FT.	(7.04 Acres)
RIVERFRONT AREA	136,020 SQ. FT.	(3.12 Acres)
LAND SUBJECT TO FLOODING	148,950± SQ. FT.	(3.42 Acres)
FLOODPLAIN & WATERSHED PROTECTION DISTRICT	280,740± SQ. FT.	(6.44 Acres)

DRAWING LIST

TITLE	SHEET No.
COVER SHEET	1 of 7
PROPOSED CONDITIONS	2 of 7
PROPOSED CONDITIONS	3 of 7
PROPOSED DRAINAGE IMPROVEMENTS	4 of 7
EROSION CONTROL PLAN	5 of 7
PROPOSED SUBSURFACE SEWAGE DISPOSAL SYSTEM	6 of 7
SEPTIC DETAILS	7 of 7

1	8/20/19	Added drainage & rev access	GDJ
2	10/05/19	Response to Comments	GDJ
3	11/10/19	Response to Eco-Tec	GDJ
4	2/12/20	Moved driveway	GDJ
8	7/02/20	Returned to Cart Path	GDJ
9	7/15/20	Added Septic System	GDJ
10	8/05/20	Response to Review Engineer	GDJ
NO.	DATE	DESCRIPTION	BY



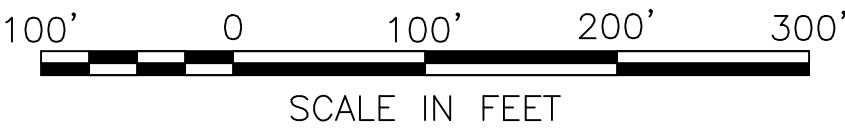
OWNER & APPLICANT

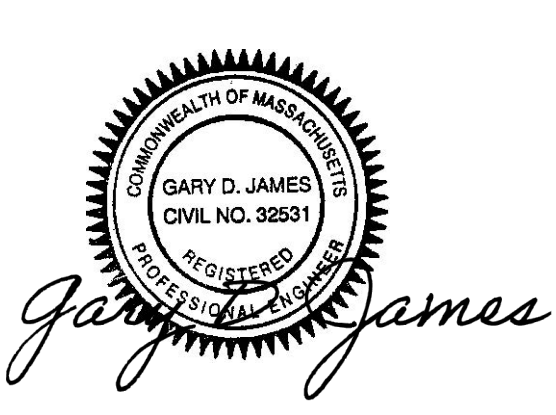
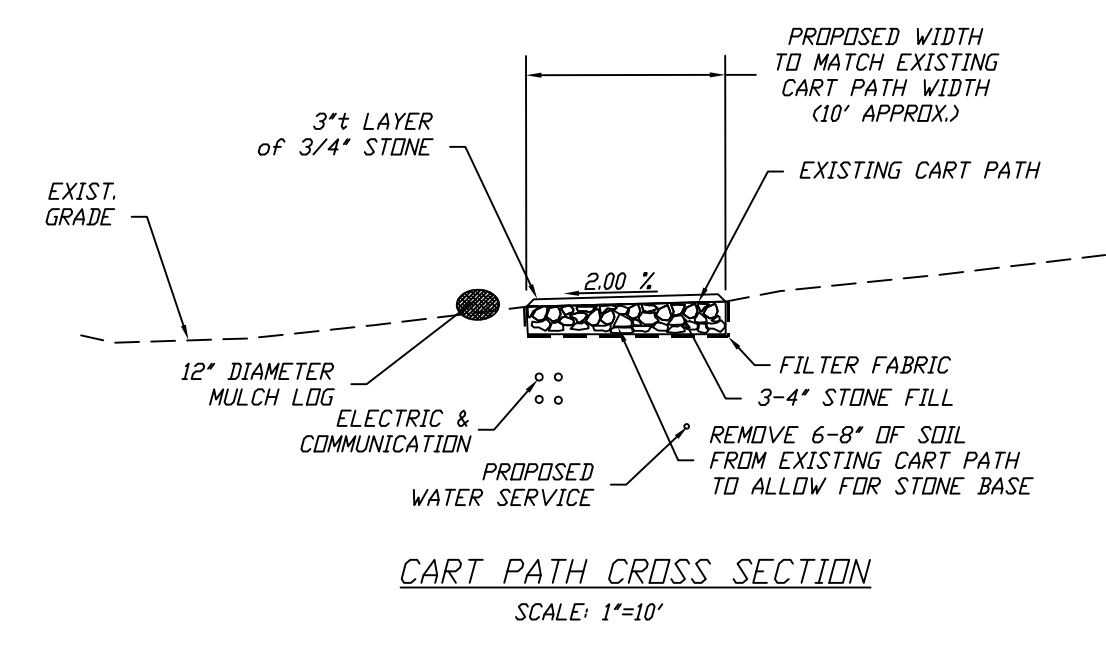
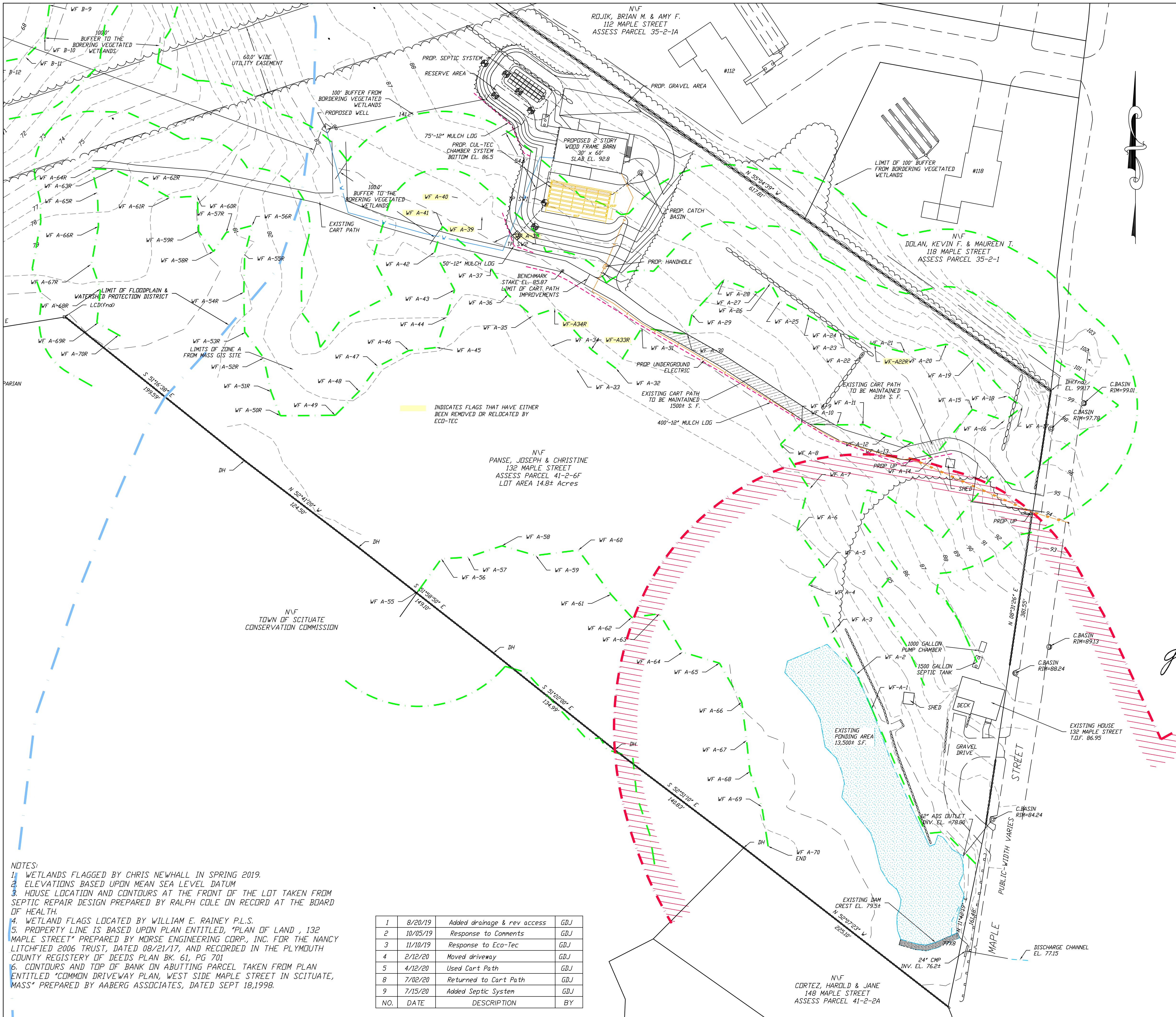
JOSEPH & CHRISTINE PANSE
246 S. COCONUT PALM BLVD.
TAVERNIER, FL 33070
DEED REF. BK. 48,905, PG 274

COVER SHEET
PLAN OF LAND
at
132 MAPLE STREET
SCITUATE, MA

SCALE: 1"=100' DATE: APRIL 23, 2019

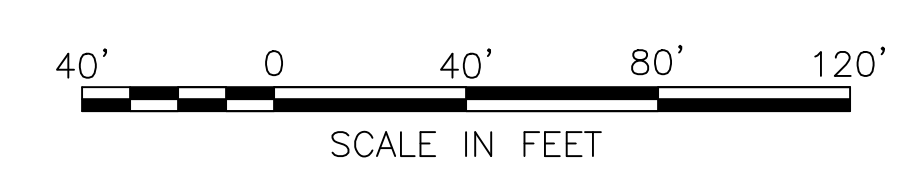
JAMES ENGINEERING, INC.
125 GREAT ROCK ROAD
HANOVER, MASS. 02339
TEL: 1- (781)-878-1795





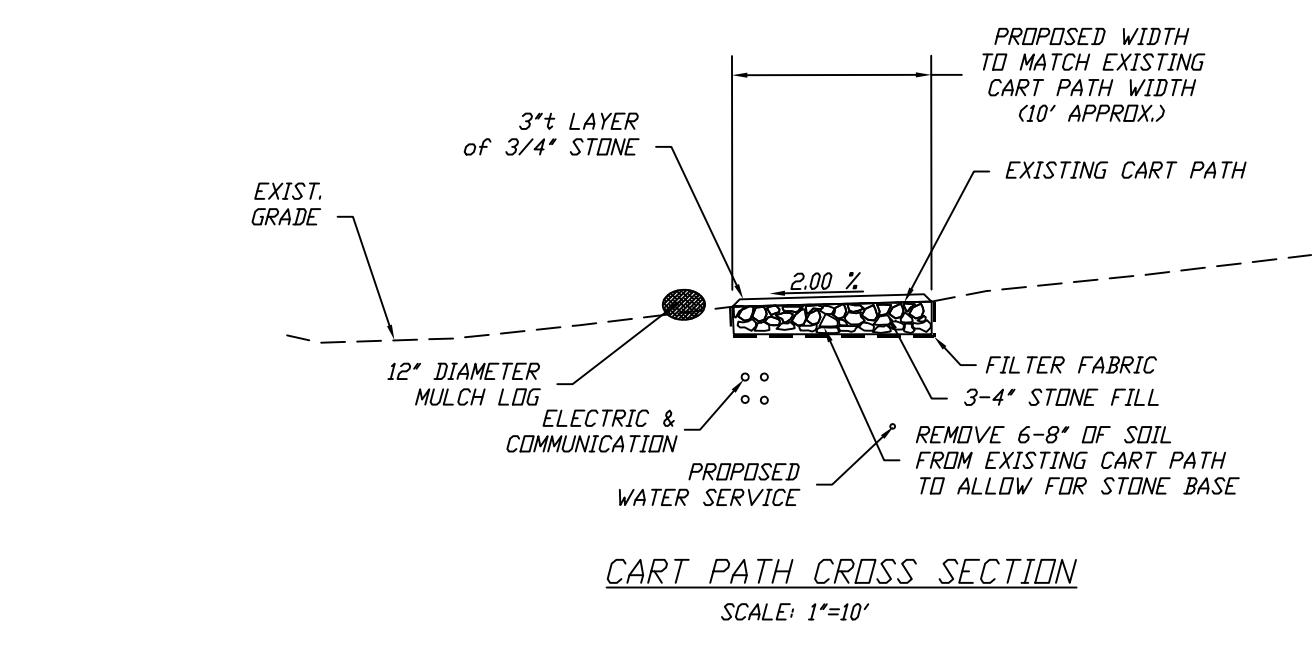
OWNER & APPLICANT
JOSEPH & CHRISTINE PANSE
246 S. COCONUT PALM BLVD.
TAVERNIER, FL 33070
DEED REF. BK. 48,905, PG 274

**PROPOSED CONDITIONS
PLAN OF LAND**
at
**132 MAPLE STREET
SCITUATE, MA**
SCALE: 1"=40' DATE: APRIL 23, 2019
JAMES ENGINEERING, INC.
125 GREAT ROCK ROAD
HANOVER, MASS. 02339
TEL: 1- (781)-878-1795



NOTES:
1. WETLANDS FLAGGED BY CHRIS NEWHALL IN SPRING 2019.
2. ELEVATIONS BASED UPON MEAN SEA LEVEL DATUM
3. HOUSE LOCATION AND CONTOURS AT THE FRONT OF THE LOT TAKEN FROM SEPTIC REPAIR DESIGN PREPARED BY RALPH COLE ON RECORD AT THE BOARD OF HEALTH.
4. WETLAND FLAGS LOCATED BY WILLIAM E. RAINEY P.L.S.
5. PROPERTY LINE IS BASED UPON PLAN ENTITLED, "PLAN OF LAND, 132 MAPLE STREET" PREPARED BY MORSE ENGINEERING CORP., INC. FOR THE NANCY LITCHFIELD 2006 TRUST, DATED 08/21/17, AND RECORDED IN THE PLYMOUTH COUNTY REGISTRY OF DEEDS PLAN BK. 61, PG 701
6. CONTOURS AND TOP OF BANK ON ABUTTING PARCEL TAKEN FROM PLAN ENTITLED "COMMON DRIVEWAY PLAN, WEST SIDE MAPLE STREET IN SCITUATE, MASS" PREPARED BY AABERG ASSOCIATES, DATED SEPT 18, 1998.

1	8/20/19	Added drainage & rev access	GDJ
2	10/05/19	Response to Comments	GDJ
3	11/10/19	Response to Eco-Tec	GDJ
4	2/12/20	Moved driveway	GDJ
5	4/12/20	Used Cart Path	GDJ
8	7/02/20	Returned to Cart Path	GDJ
9	7/15/20	Added Septic System	GDJ
NO.	DATE	DESCRIPTION	BY



DEEP OBSERVATION HOLE LOG						
87.1	DEPTH FROM SURFACE (INCHES)	SOIL HORIZONS	SOIL TEXTURES (SOIL TYPES)	SOIL COLOR (MANGOLD)	SOIL MOTTLING	OTHER (ROOTS, STONES, COSSISTENCY & GRAVEL)
	0-8"	A	Sandy Loam	10 YR 3/2		
8-36"	B _w	L. Sand - Loam	10 YR 5/6			FRABLE, CRUMB 10-15% gravel 25-30% stone
36-65"	C ₁	L. Sand - S. Loam	2.5 Y 5/4	Many Prom 10 YR 7/8 7.5 YR 5/1		FRABLE, CRUMB 10-15% gravel 25-30% stone

TEST PIT # SW-2
PERFORMED BY: GARY D. JAMES, P.E.
WITNESSED BY:
PERC RATE:
DATE 08/16/19

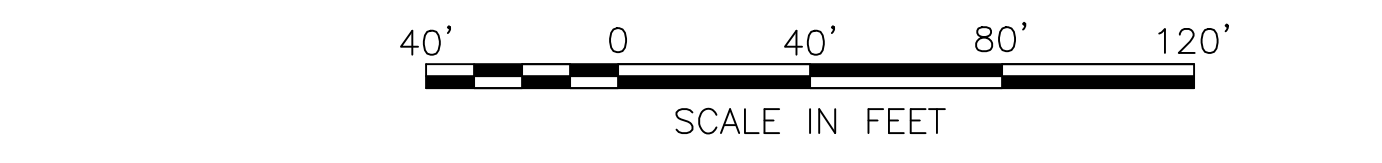
DEEP OBSERVATION HOLE LOG						
86.3	DEPTH FROM SURFACE (INCHES)	SOIL HORIZONS	SOIL TEXTURES (USDA)	SOIL COLOR (MUNSELL)	OTHER (COMMENTS, CORRELATIONS, GRAVEL)	
	0-10"	A	Sandy Loam	10 YR 3/2		
	10-33"	B _w	L. Sand S. Loam	10 YR 5/6	FRIBLE, CRUMB 5-10% gravel 45-50% stone	
	33-65"	C ₁	L. Sand S. Loam	2.5 Y 5/4	Many From 10 YR 7/1 7.5 YR 5/8	FRIBLE, CRUMB 10-15% gravel 45-50% stone

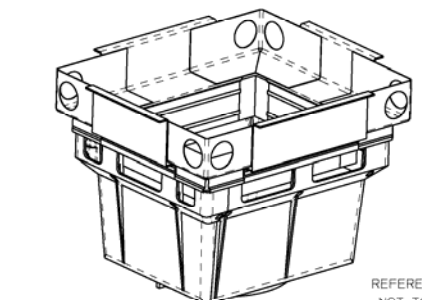
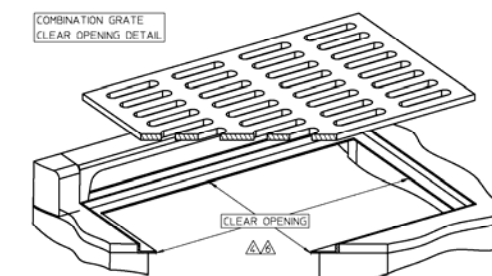
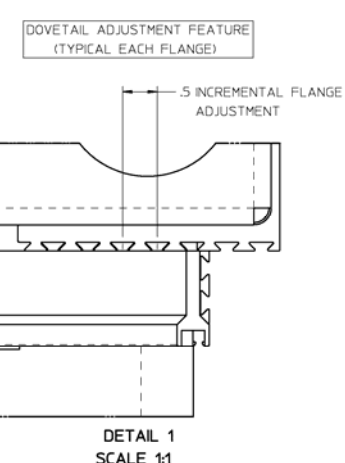
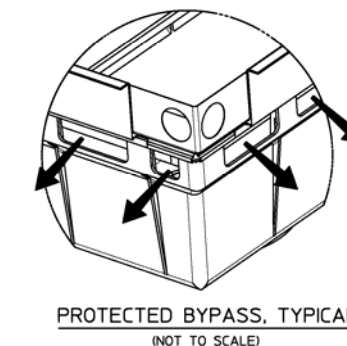
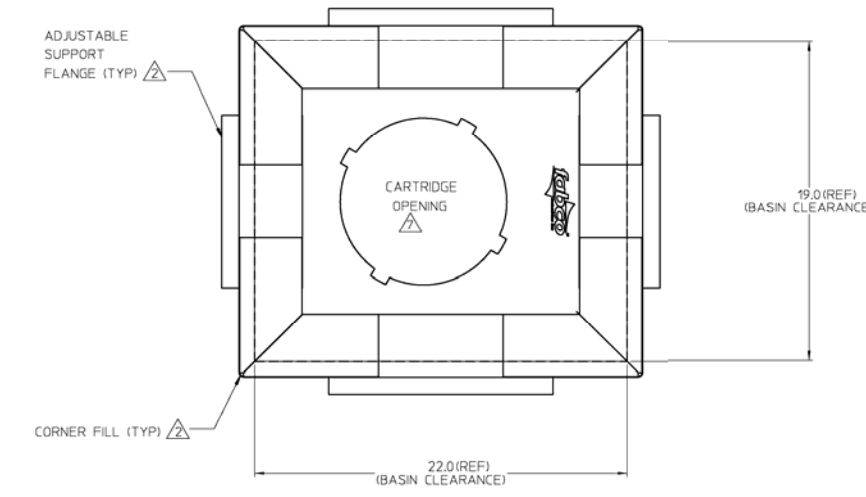
OWNER & APPLICANT

JOSEPH & CHRISTINE PANSE
246 S. COCONUT PALM BLVD.
TAVERNIER, FL 33070
DEED REF. BK. 48,905, PG 274

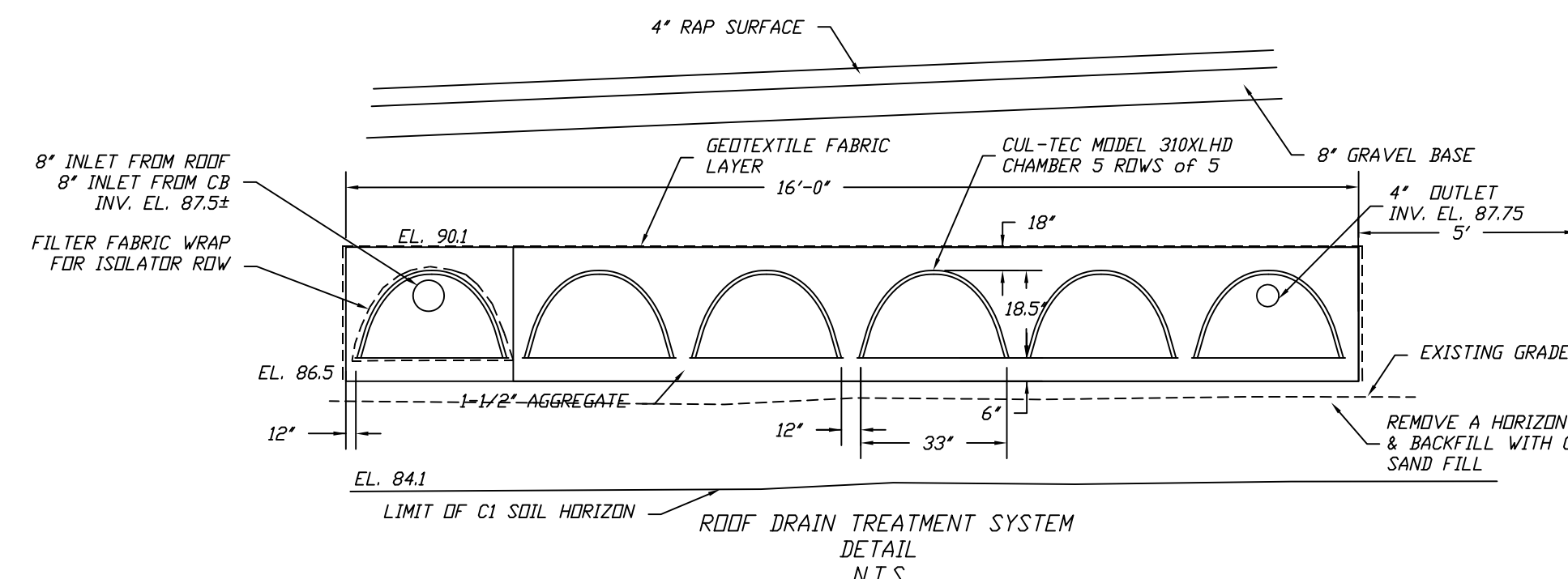
PROPOSED CONDITIONS
PLAN OF LAND
at
132 MAPLE STREET
SCITUATE, MA

JAMES ENGINEERING, INC.
125 GREAT ROCK ROAD
HANOVER, MASS. 02339
TEL: 1- (781)-878-1795

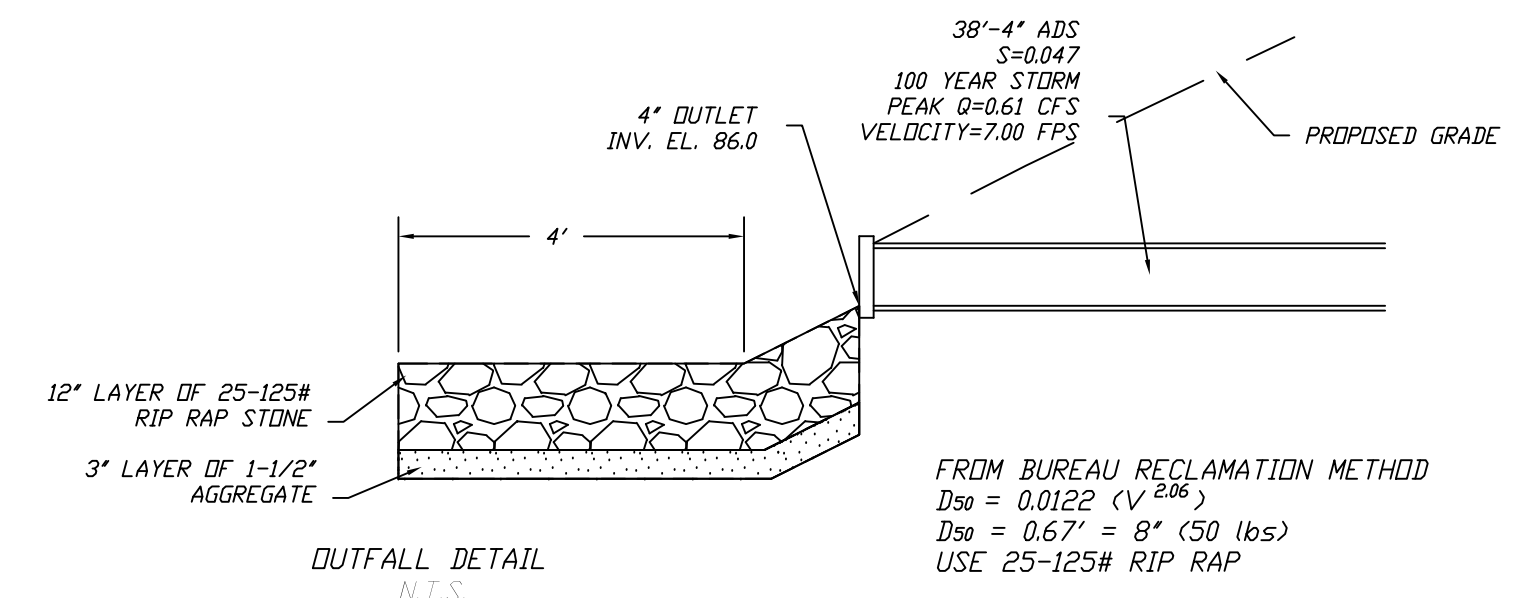


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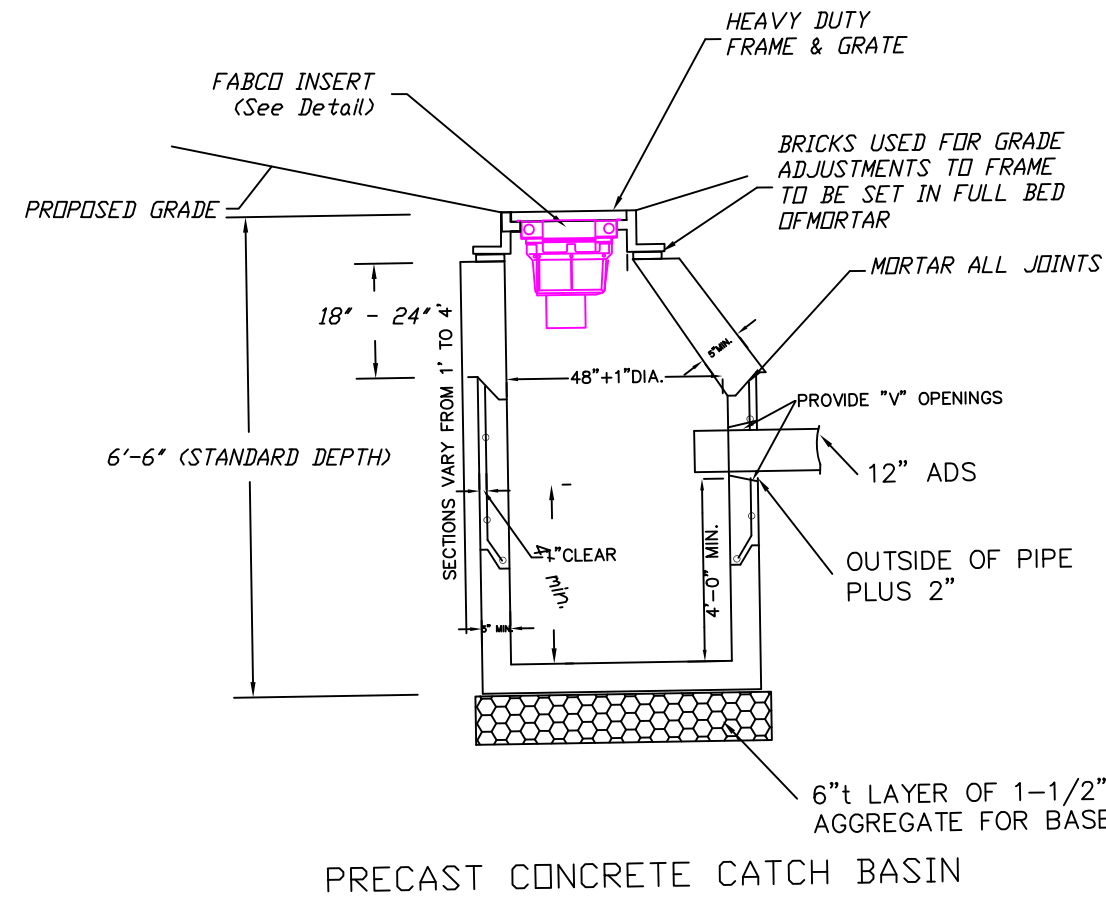
NO	QTY	PART NUMBER	DESCRIPTION	REMARKS
BILL OF MATERIALS				
GULF OVERSEAS SHIPPING		STANDARD	APPROVALS	DATE
BY AIR		BY AIR	DWR	BY DWR
BY SEA		BY SEA	OWNER	BY OWNER
DO NOT SCALE THIS DRAWING		NO PART OF THIS DRAWING	OWNER	BY OWNER
MATERIAL		SEE NOTES	APPROVED	TITLE
97330-7C-ASSY1		FABCO INDUSTRIES, INC.	STORMBASIN, 19X22 C5	
MODEL LINK		616 CENTRAL AVENUE	SIZE	DATE
		FAIRFAX, VA 22035	DWG NO	REV
		FABCO-INDUSTRIES.COM	1	1
			97330-7C-000	8



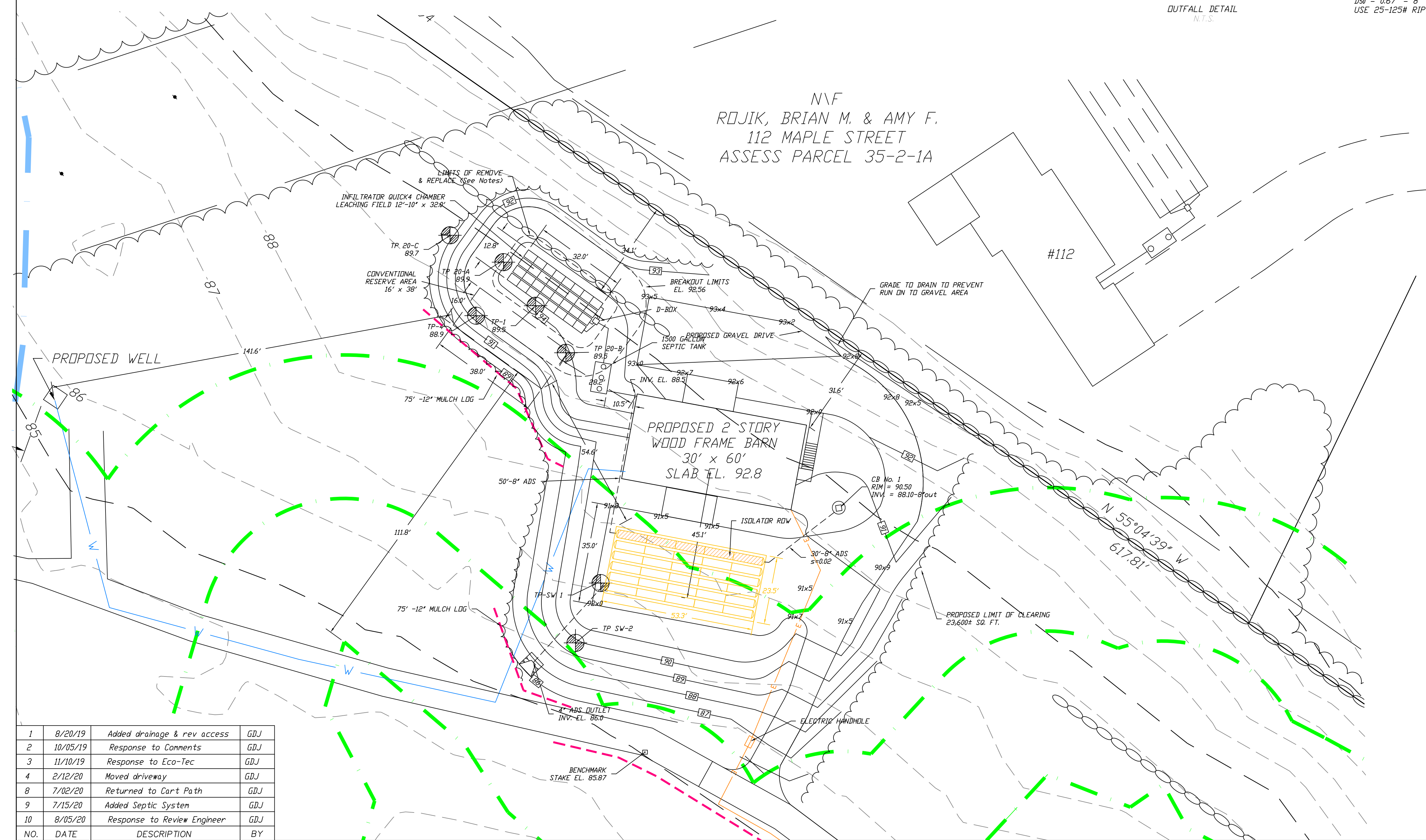
NOTE;
1. ALL STORM WATER SUBSURFACE INFILTRATION SYSTEMS SHALL BE MAINTAINED IN STRICT ACCORDANCE WITH THE OPERATION & MAINTENANCE MANUAL
2. THE STONE TRENCH SHALL CONNECT INTO THE CHAMBER SYSTEM



FROM BUREAU RECLAMATION METHOD
 $D_{50} = 0.0122 (V^{2.06})$
 $D_{50} = 0.67' = 8" (50 \text{ lbs})$
 USE 25-125# RIP RAP



PRECAST CONCRETE CATCH BASIN



N\F
ROJIK, BRIAN M. & AMY F.
112 MAPLE STREET
ASSESS PARCEL 35-2-1A

OWNER & APPLICANT

JOSEPH & CHRISTINE PANSE
246 S. COCONUT PALM BLVD.
TAVERNIER, FL 33070
DEED REF. BK. 48,905, PG 274



PROPOSED DRAINAGE IMPROVEMENTS
PLAN OF LAND
at
132 MAPLE STREET
SCITUATE, MA

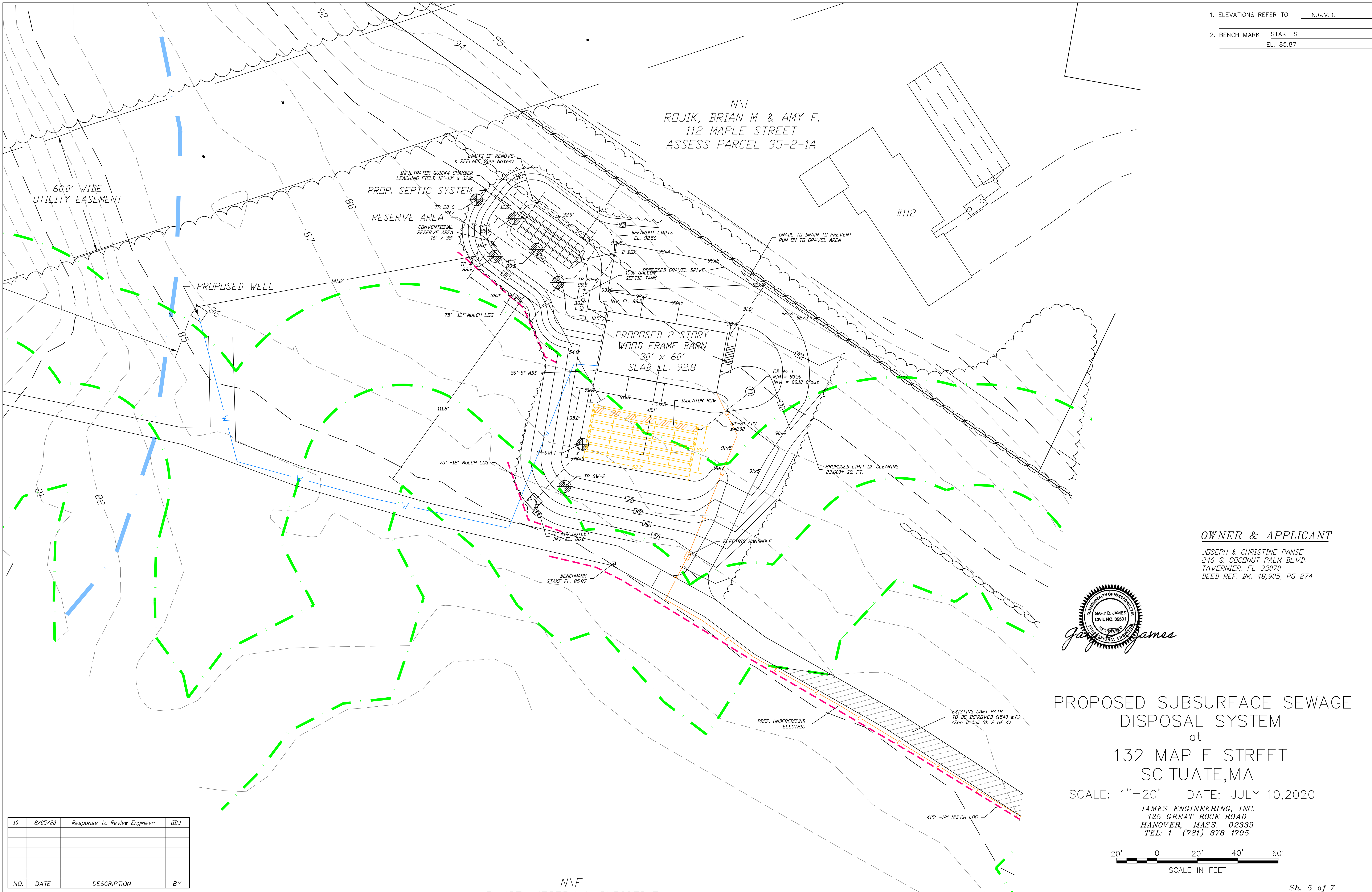
SCALE: 1"=20' DATE: APRIL 23, 2019

JAMES ENGINEERING, INC.
125 GREAT ROCK ROAD
HANOVER, MASS. 02339
TEL: 1- (781)-878-1795



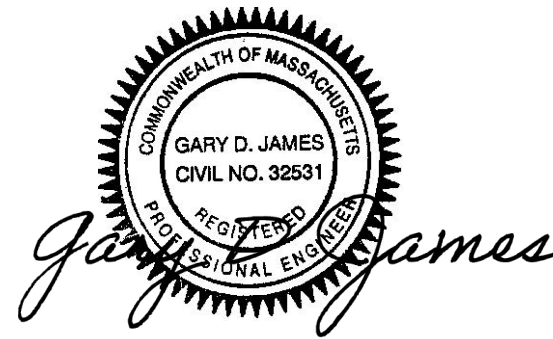
1	8/20/19	Added drainage & rev access	GDJ
2	10/05/19	Response to Comments	GDJ
3	11/10/19	Response to Eco-Tec	GDJ
4	2/12/20	Moved driveway	GDJ
8	7/02/20	Returned to Cart Path	GDJ
9	7/15/20	Added Septic System	GDJ
10	8/05/20	Response to Review Engineer	GDJ
NO.	DATE	DESCRIPTION	BY

1. ELEVATIONS REFER TO N.G.V.D.
2. BENCH MARK STAKE SET
EL. 85.87



OWNER & APPLICANT

JOSEPH & CHRISTINE PANSE
246 S. COCONUT PALM BLVD.
TAVERNIER, FL 33070
DEED REF. BK. 48,905, PG 274

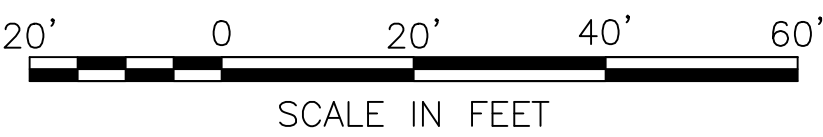


PROPOSED SUBSURFACE SEWAGE
DISPOSAL SYSTEM

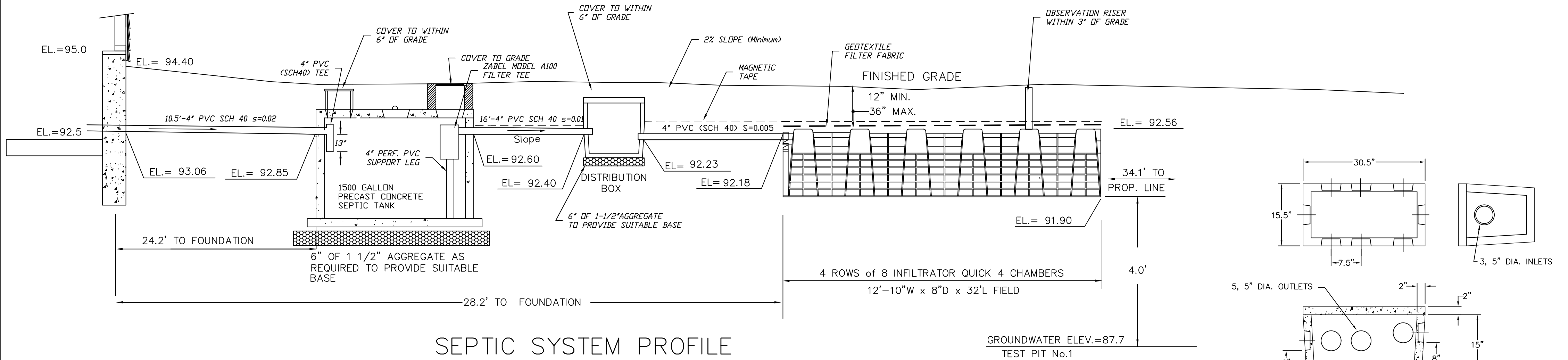
at
132 MAPLE STREET
SCITUATE, MA

SCALE: 1"=20' DATE: JULY 10, 2020

JAMES ENGINEERING, INC.
125 GREAT ROCK ROAD
HANOVER, MASS. 02339
TEL: 1- (781)-878-1795



10	8/05/20	Response to Review Engineer	GDJ
NO.	DATE	DESCRIPTION	BY



SEPTIC SYSTEM PROFILE

TEST PIT # 1
PERFORMED BY: GARY D. JAMES, P.E.
WITNESSED BY:RALPH COLE, BOH
PERC RATE: 11 MIN/IN
DATE: 11/18/19

DEEP OBSERVATION HOLE LOG					
DEPTH FROM SURFACE (INCHES)	SOIL HORIZONS	SOIL TEXTURES (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER (STRUCTURES, CONCRETES, GRAVEL)
0-9"	A	Sandy Loam	10 YR 3/2		FRIABLE, MASSIVE
9-22"	B _w	Sandy Loam	10 YR 5/6		FRIABLE, MASSIVE
22-120"	C ₁	Sandy Loam	10 YR 6/2		FRIABLE, CRUMB 10% gravel 10% stone

WEeping FROM PIT FACE: 89"
ESTIMATED DEPTH TO MAX. G.W. 22" (EL. 87.7)
STANDING N/A

TEST PIT # 4
PERFORMED BY: GARY D. JAMES, P.E.
WITNESSED BY:RALPH COLE, BOH
PERC RATE: 11 MIN/IN
DATE: 11/18/19

DEEP OBSERVATION HOLE LOG					
DEPTH FROM SURFACE (INCHES)	SOIL HORIZONS	SOIL TEXTURES (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER (STRUCTURES, CONCRETES, GRAVEL)
0-7"	A	Sandy Loam	10 YR 3/2		GRANULAR FRIABLE
7-18"	B _w	Sandy Loam	10 YR 5/6		FRIABLE, MASSIVE
18-120"	C ₁	Sandy Loam	10 YR 5/4	24" 7.5 YR 5/6	FRIABLE, CRUMB 5% gravel 5% stone

WEeping FROM PIT FACE:100"
ESTIMATED DEPTH TO MAX. G.W. 24" (EL. 86.9)
STANDING N/A

TEST PIT # 20-A
PERFORMED BY: GARY D. JAMES, P.E.
WITNESSED BY:RALPH COLE, BOH
PERC RATE: 11 MIN/IN
DATE: 06/24/20

DEEP OBSERVATION HOLE LOG					
DEPTH FROM SURFACE (INCHES)	SOIL HORIZONS	SOIL TEXTURES (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER (STRUCTURES, CONCRETES, GRAVEL)
0-9"	A	Sandy Loam	10 YR 3/2		GRANULAR FRIABLE
9-28"	B _w	Sandy Loam	10 YR 5/6		FRIABLE, MASSIVE
28-120"	C ₁	Sandy Loam	10 YR 5/4	30" 7.5 YR 5/6	FRIABLE, CRUMB 10% gravel 30% stone

WEeping FROM PIT FACE: 82"
ESTIMATED DEPTH TO MAX. G.W. 30" (EL. 87.4)
STANDING N/A

TEST PIT # 20-B
PERFORMED BY: GARY D. JAMES, P.E.
WITNESSED BY:RALPH COLE, BOH
PERC RATE: 13 MIN/IN
DATE: 06/24/20

DEEP OBSERVATION HOLE LOG					
DEPTH FROM SURFACE (INCHES)	SOIL HORIZONS	SOIL TEXTURES (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER (STRUCTURES, CONCRETES, GRAVEL)
0-8"	A	Sandy Loam	10 YR 3/2		GRANULAR FRIABLE
8-28"	B _w	Sandy Loam	10 YR 5/6		FRIABLE, MASSIVE
28-120"	C ₁	Sandy Loam	10 YR 5/4	24" 7.5 YR 5/6	FRIABLE, CRUMB 10% gravel 30% stone

WEeping FROM PIT FACE: 74"
ESTIMATED DEPTH TO MAX. G.W. 24" (EL. 87.4)
STANDING N/A

TEST PIT # 20-C
PERFORMED BY: GARY D. JAMES, P.E.
WITNESSED BY:RALPH COLE, BOH
PERC RATE: TEST STOPPED
DATE: 06/24/20

DEEP OBSERVATION HOLE LOG					
DEPTH FROM SURFACE (INCHES)	SOIL HORIZONS	SOIL TEXTURES (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER (STRUCTURES, CONCRETES, GRAVEL)
0-8"	A	Sandy Loam	10 YR 3/2		GRANULAR FRIABLE
8-28"	B _w	Sandy Loam	10 YR 5/6		FRIABLE, MASSIVE
28-120"	C ₁	Sandy Loam	10 YR 5/4	30" 7.5 YR 5/6	FRIABLE, CRUMB 10% gravel 30% stone

WEeping FROM PIT FACE: 82"
ESTIMATED DEPTH TO MAX. G.W. 30" (EL. 87.2)
STANDING N/A

NOTES CONTINUED:
14. LEACHING FACILITIES SHALL BE COVERED WITH A GEOTEXTILE FABRIC LAYER.
15. IN AREAS SHOWN ON THE PLAN, ALL TOPSOIL, PEAT AND OTHER IMPERVIOUS MATERIAL SHALL BE REMOVED AND REPLACED WITH A CLEAN GRANULAR SAND FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES, WHICH SHALL BE GRADED SUCH THAT;

- NO MATERIAL IS LARGER THAN 2 INCHES.
- NOT MORE THAN 45% IS RETAINED ON THE #4SIEVE;
- OF THE FRACTION PASSING THE #4 SIEVE, THE MATERIAL SHALL FALL WITHIN THE GRADATION LIMITS AS FOLLOWS;

SIEVE SIZE	PERCENT PASSING
#50	10-100%
#100	0-20%
#200	0-5%

16. A SIEVE ANALYSIS OF THE MATERIAL SHALL BE PERFORMED TO DETERMINE THAT IT MEETS THE GRADATION REQUIREMENTS AS NOTED ABOVE.

17. REMOVE AND REPLACE SHALL EXTEND TO A DEPTH OF 28" DR UNTIL C1 HORIZON IS ENCOUNTERED;
EXCAVATION QUANTITY= 85 CU. YDS.
REPLACEMENT QUANTITY= 170"CU. YDS.
* INCLUDES 20% COMPACTION ALLOWANCE

18. UNLESS OTHERWISE NOTED, ALL PIPING SHALL BE SCHEDULE 40 PVC AND SHALL BE COVERED BY A MAGNETIC TAPE TO ASSIST WITH LOCATING THE PIPE.

19. UNLESS OTHERWISE NOTED, THERE ARE NO KNOWN WELLS WITHIN 500' OF THE PROPOSED LEACHING FACILITIES.

20. ALL SYSTEM COMPONENTS SHALL BE COVERED WITH A MAGNETIC TAPE TO HELP IDENTIFY LOCATION AFTER INSTALLATION.

21. DESIGN ENGINEER SHALL BE CONTACTED TO INSPECT THE CONSTRUCTION PROGRESS OF THE SYSTEM ;

- WHEN ALL MATERIAL HAS BEEN REMOVED TO INSPECT THE MATERIAL AT THE BOTTOM OF THE HOLE;
- WHEN THE SYSTEM COMPONENTS HAVE BEEN INSTALLED PRIOR TO BACKFILLING; AND
- WHEN THE SYSTEM FINAL GRADING HAS BEEN COMPLETED.

22. THE SITE IS NOT LOCATED IN A FEMA FLOOD HAZARD AREA.

23. THE SITE IS NOT LOCATED IN A ZONE II OF A PUBLIC WATER SUPPLY WELL.

24. INFILTRATOR QUICK4 PLUS 3 CHAMBERS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GENERAL USE PERMIT ISSUED BY DEP REV JUNE 12,2015.

25. LEACHING FACILITIES AS SHOWN ON ABUTTING LOTS TAKEN FROM AS BUILT PLANS ON RECORD AT THE BOARD OF HEALTH

26. CONVENTIONAL SYSTEM REQUIREMENTS
AREA REQUIRED = 589.3 SQ. FT.
SYSTEM PROPOSED = 16' x 38'
AREA PROVIDED = 608 SQ. FT. ok

1. ELEVATIONS REFER TO N.G.V.D.

2. BENCH MARK STAKE SET
EL. 85.87

3. ESTIMATED DAILY FLOW
RESIDENTIAL USE
USE 330 GALLON MINIMUM

4. SEPTIC TANK REQ'D CAPACITY = 1500 GALLONS

5. LEACHING AREA REQUIREMENTS; CLASS II SOIL
PERC RATE 13 MIN/IN
APPLICATION RATE = 0.56 G/SF
AREA REQ. =330.0 ÷ 0.56 GAL/S.F. =589.3 S.F.
USE INFILTRATOR QUICK4 PLUS CHAMBERS
AREA =4.73 S.F. / L.F.

LNTH REQ. = 589.3 S.F. ÷ 4.73 S.F./L.F. =124.6 L.F.

6. LEACHING AREA PROVIDED
USE CHAMBER BED 32'L X 12'-10" W
4 ROWS OF CHAMBERS 32'L = 128'
EQUIV. AREA PROV. = 128 x 4.73 = 605.4 S.F.
CAP. PROV=605.4 X 0.74 G/S.F.= 448.0 G.P.D.

7. HEAVY GRADING MACHINERY SHALL NOT BE PERMITTED TO PASS OVER LEACHING AREAS.

8. ALL CONSTRUCTION TO CONFORM TO THE REQUIREMENTS OF THE MASSACHUSETTS DEPARTMENT OF ENV. PROTECTION SANITARY CODE, TITLE 5, AND THE TOWN OF SCITUATE BOARD OF HEALTH.

PERCOLATION DATA			
PERC RATE	DEPTH OF TEST	DATE	
1. 11 MIN/IN	30"	11/18/19	
20-A 11 MIN/IN	34"	06/24/20	
20-B 13 MIN/IN	28"	06/24/20	

10. THIS SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE GRINDER.

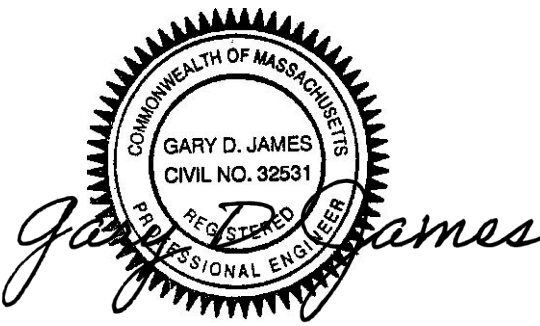
11. THE FIRST TWO FEET OF EACH LINE EXITING FROM THE "D-BOX" SHALL BE LEVEL.

12. DESIGN ENGINEER TO BE NOTIFIED AT LEAST 48 HOURS PRIOR TO REQUIRED INSPECTIONS.

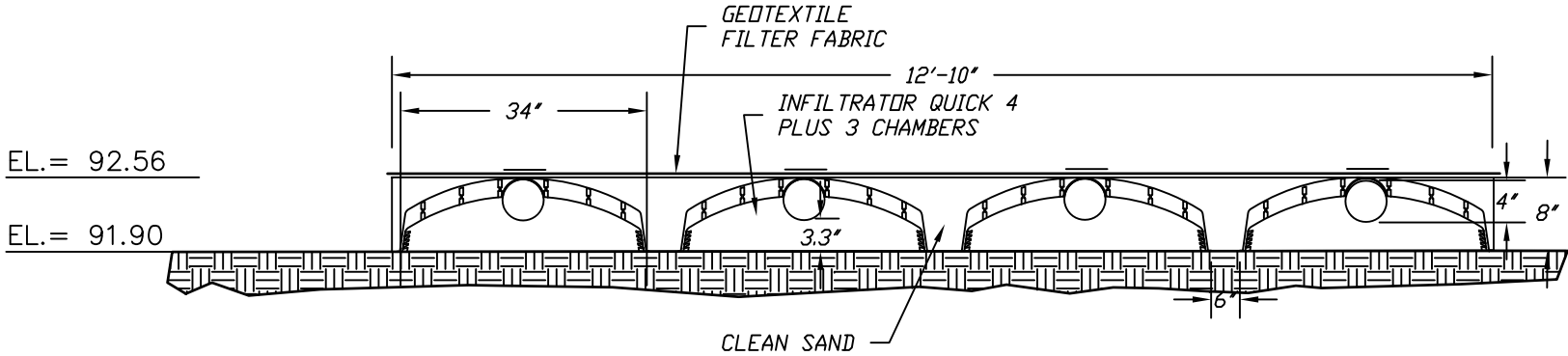
13. SEPTIC SYSTEM OWNER SHALL HAVE SEPTIC TANK INSPECTED AT LEAST ONCE EACH YEAR & PUMPED AS DEEMED NECESSARY BY THE INSPECTOR NOT LESS THAN ONCE EVERY THREE YEARS .

OWNER & APPLICANT

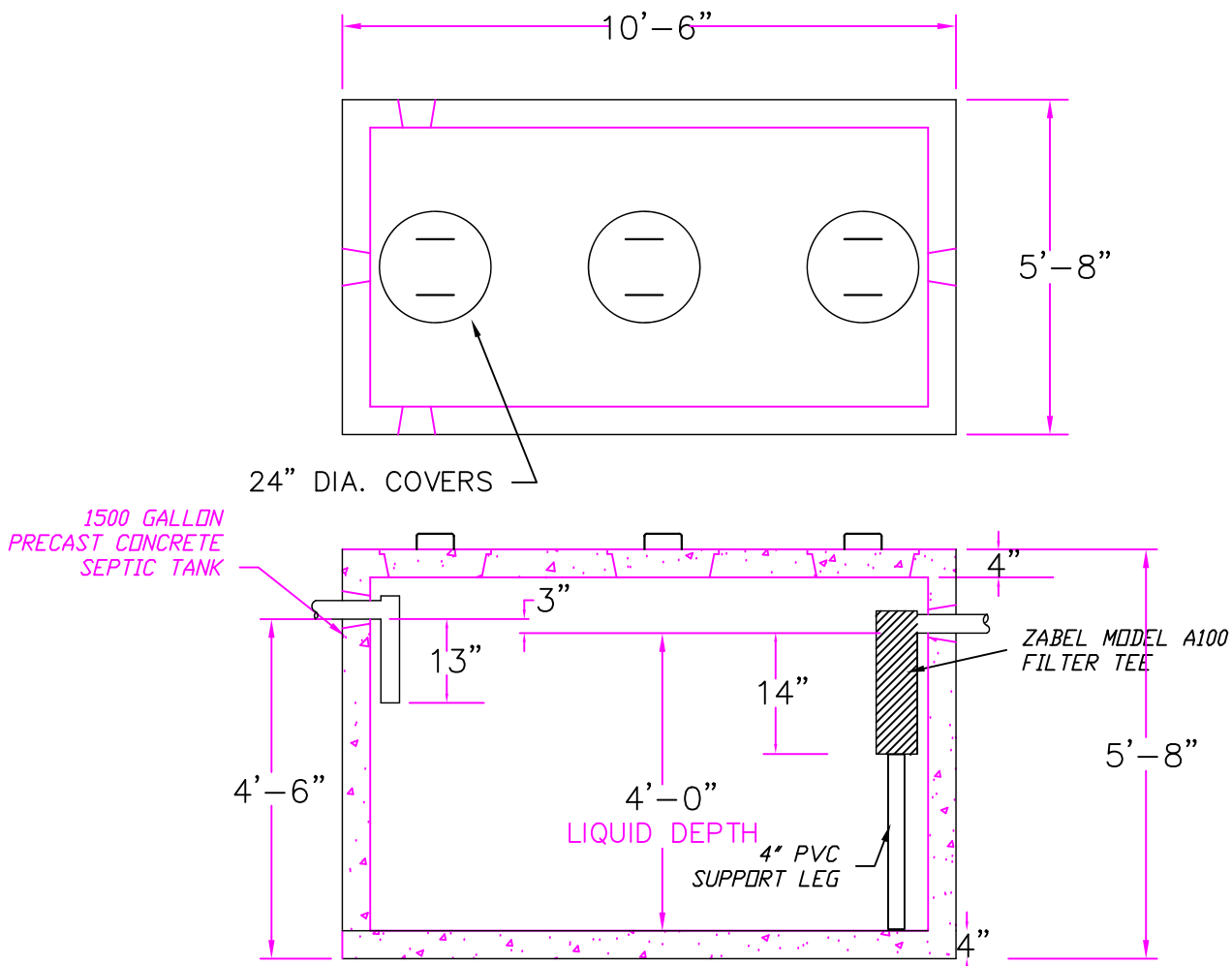
JOSEPH & CHRISTINE PANSE
246 S. COCONUT PALM BLVD.
TAVERNIER, FL 33070
DEED REF. BK. 48,905, PG 274



DISTRIBUTION BOX



SECTION THRU LEACHING



1500 GAL. SEPTIC TANK

SEPTIC DETAILS
PLAN OF LAND

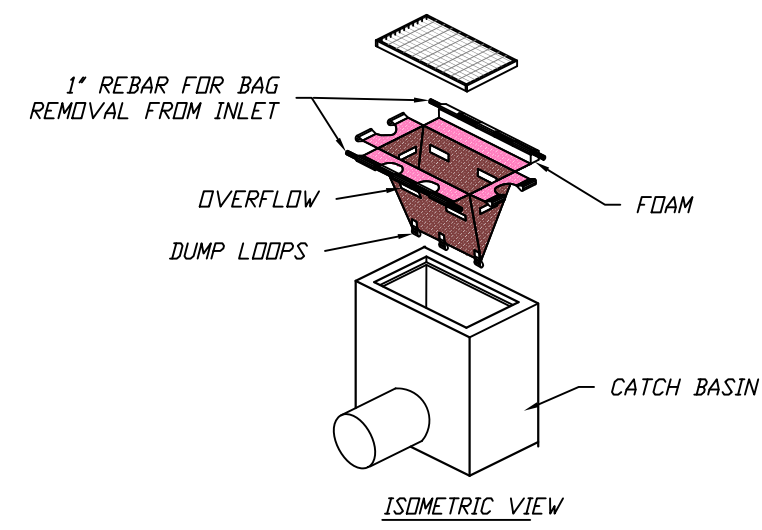
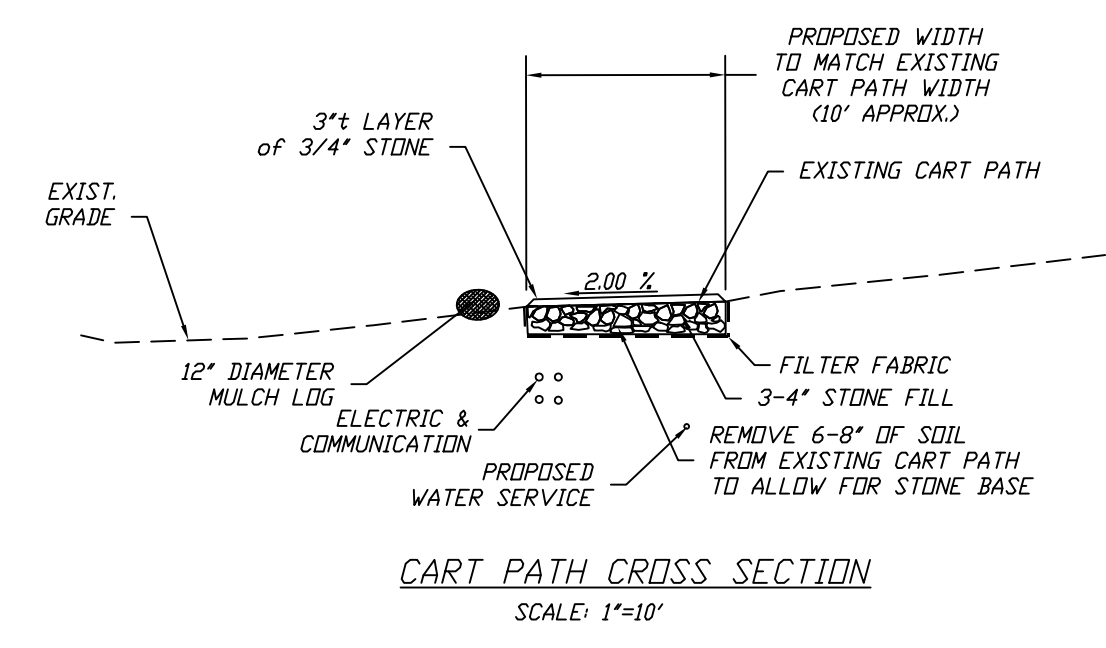
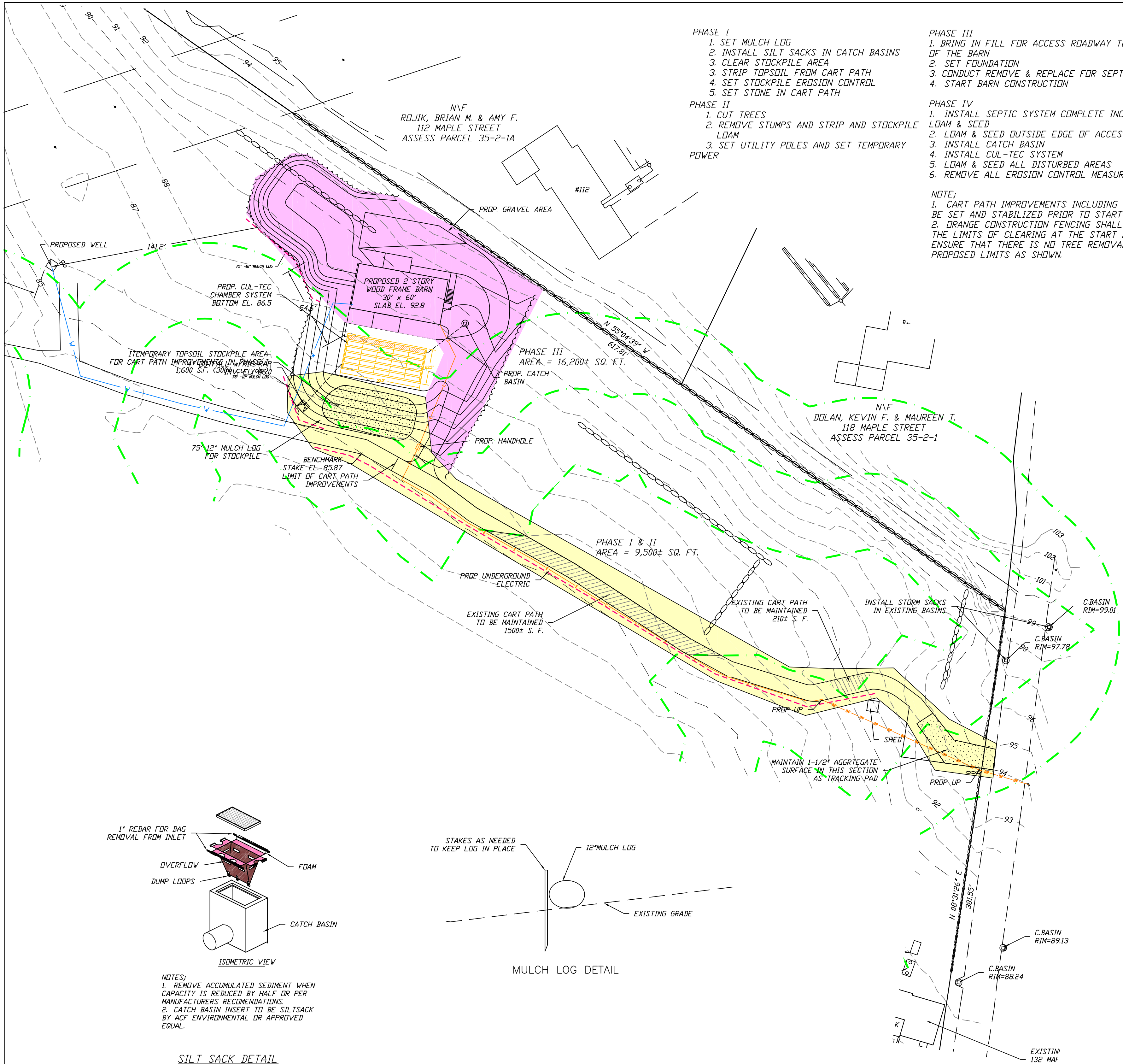
at

132 MAPLE STREET
SCITUATE,MA

SCALE: NTS DATE: JULY 10,2020

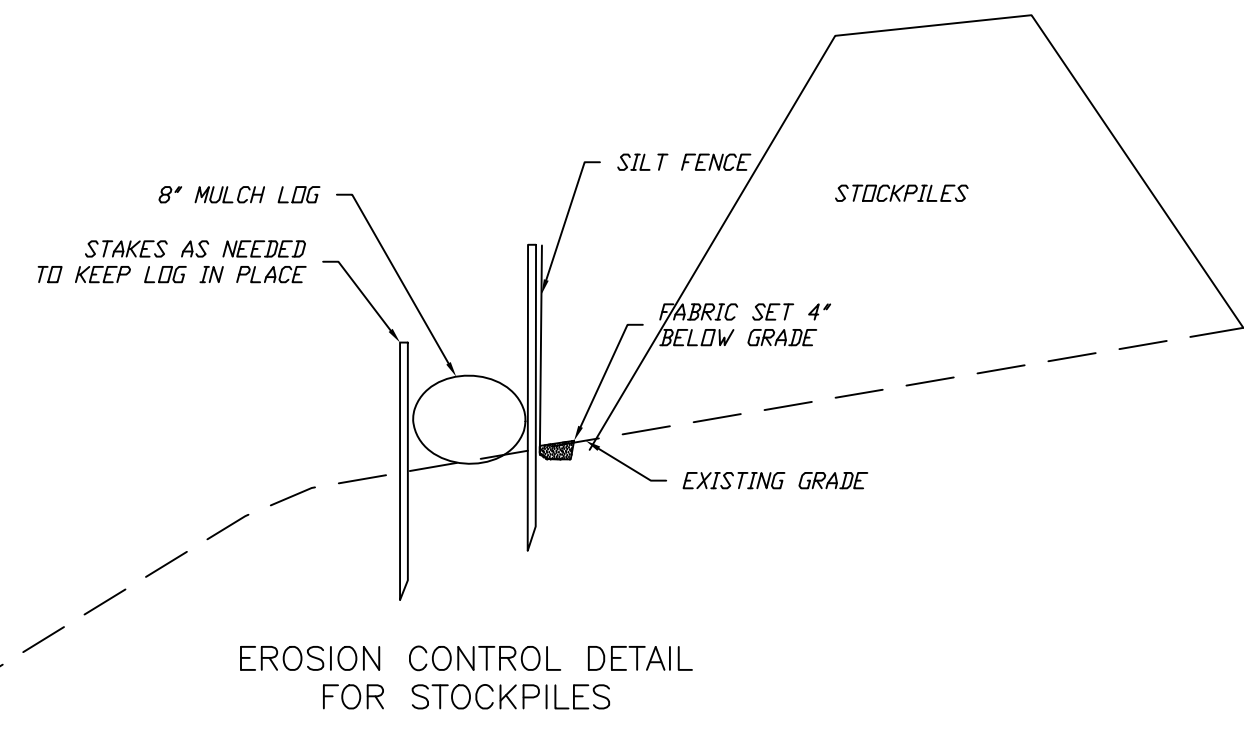
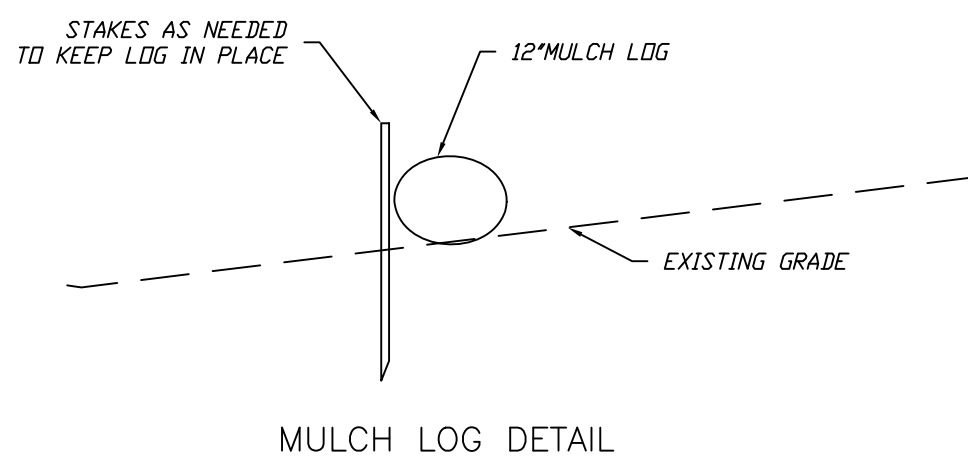
JAMES ENGINEERING, INC.
125 GREAT ROCK ROAD
HANOVER, MASS. 02339
TEL: 1- (781)-878-1795

10	8/05/20	Response to Review Engineer	GJJ
NO.	DATE	DESCRIPTION	BY



NOTES:
1. REMOVE ACCUMULATED SEDIMENT WHEN CAPACITY IS REDUCED BY HALF OR PER MANUFACTURERS RECOMMENDATIONS.
2. CATCH BASIN INSERT TO BE SILT SACK BY ACT ENVIRONMENTAL OR APPROVED EQUAL.

SILT SACK DETAIL
NOT TO SCALE



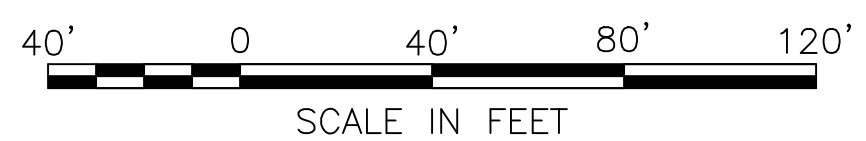
OWNER & APPLICANT

JOSEPH & CHRISTINE PANSE
246 S. COCONUT PALM BLVD.
TAVERNIER, FL 33070
DEED REF. BK. 48,905, PG 274

EROSION CONTROL PLAN
PLAN OF LAND
at
132 MAPLE STREET
SCITUATE, MA

SCALE: 1"=40' DATE: APRIL 23, 2019

JAMES ENGINEERING, INC.
125 GREAT ROCK ROAD
HANOVER, MASS. 02339
TEL: 1- (781)-878-1795



1	8/20/19	Added drainage & rev access	GDJ
2	10/05/19	Response to Comments	GDJ
3	11/10/19	Response to Eco-Tec	GDJ
4	2/12/20	Moved driveway	GDJ
5	4/12/20	Used Cart Path	GDJ
8	7/02/20	Returned to Cart Path	GDJ
9	7/15/20	Added Septic System	GDJ
NO.	DATE	DESCRIPTION	BY