

23 Stage Coach
Repair - New System

413 583 7930



Plan:

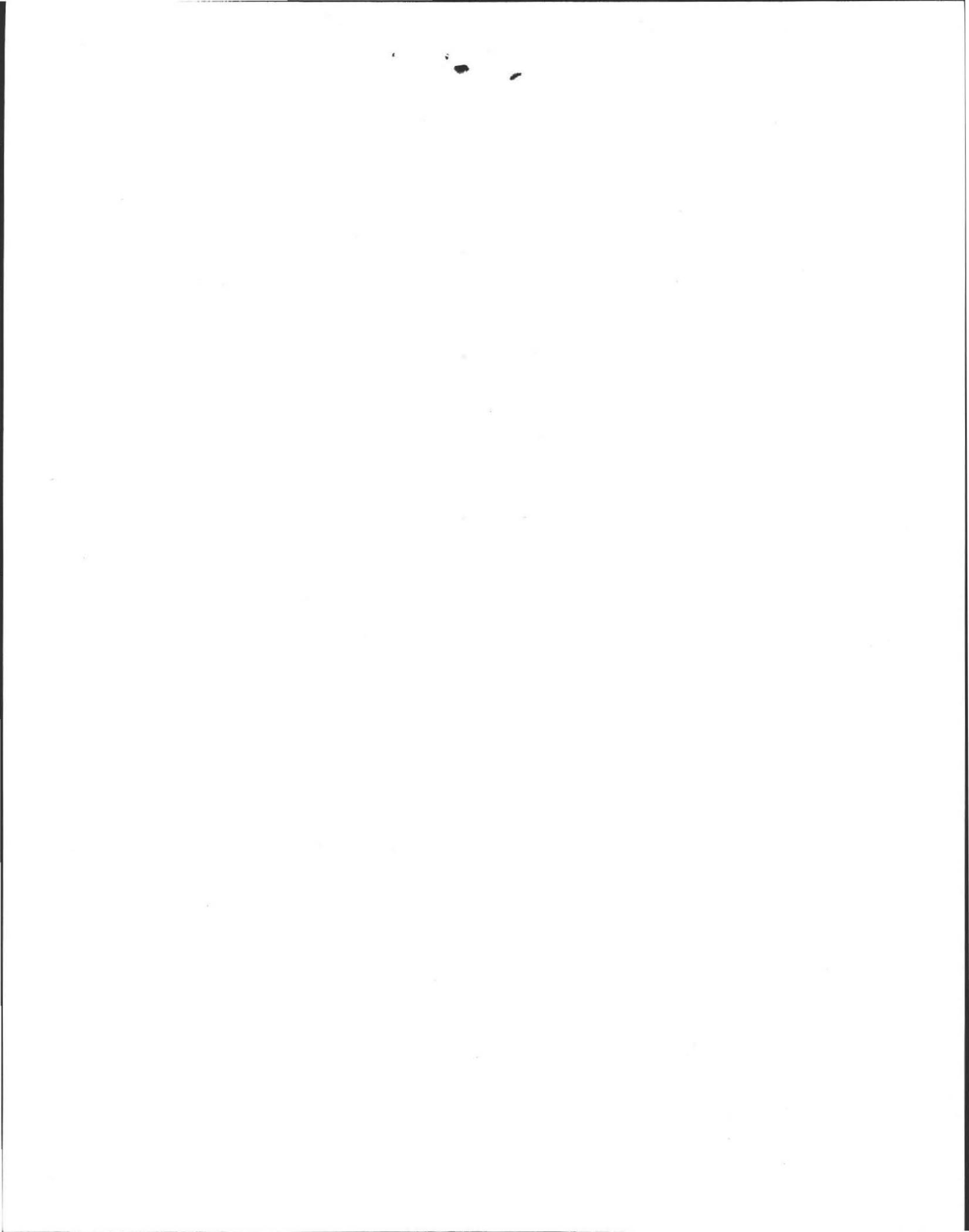
09-12

Designed by Innovative Engineering
CHECK LIST FOR SEPTIC PLANS

- Application page attached to plan
- PE or RS stamp, date, signature
- Variances to property line setback distances must have Surveyor Stamp 15220 (3) N/A
- Legal boundaries noted
- Easements noted N/A
- Dwellings and buildings existing or proposed noted
- Location of driveway or parking areas, other impervious areas
- Location and dimensions of reserve area (new) CMR 15.248(1), 15.104(4) (REPAIR)
- System design calculations
- Garbage grinder Y or N
- Benchmark not disturbed during construction, within 75 feet of facility CMR 15.220 (4)(q)
- North arrow CMR 15.200 (4) (g)
- Contours
- Deep hole location and data
- Perc hole location and data
- Elevations
- Names of approving authority and soil evaluator CMR 15.211 p. 49
- Location of every water supply, public and private. CMR 15.220(k):
 - Within 400 feet of system in case of surface water and gravel packed public water supply
 - Within 250 feet of system in case of tubular public water supply
 - Within 150 feet of private supply wells 100' septic sys. ; 50' tank
- Well statement if applicable N/A
- Location of any surface waters, rivers, vegetated wetlands NONE
- Location of water lines and other subsurface utilities
- Observed and adjusted ground water elevation in the vicinity of system 15.220 (4)(n)
- Profile of system
- Locus plan to show location of facility, including nearest street
- Materials of construction and specs for system
- Gas Baffle 15.227.4
- Pipe in center line of tank 310 CMR 15.227, 15.06(8)
- Double washed stone
- Schedule 40 PVC for trafficked areas, house to tank
- Distances noted from house to tank, etc.
- If dosing is proposed, design and specs of dosing system N/A
- When alternative technology is required, complete plan and specs, including hydraulic profile
- Trenches preferred over beds CMR 15.240 (6)
- Buoyancy calculations for tanks or components partly below H2O table 15.221(8) p. 56
- 3 to 1 slope outside of mound, toe ending 5 feet from property line
- Local upgrade requests on the plan N/A
- Local upgrade forms attached to application N/A
- Note on plan listing all variances sought in conjunction with the plan N/A

NOTES:

Inhibitor system to be used.



FORM 3 - CERTIFICATE OF COMPLIANCE

No. Fee

COMMONWEALTH OF MASSACHUSETTS
Board of Health, , MA.

Description of Work: Individual Component(s) Complete System

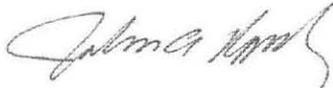
The undersigned hereby certify that the Sewage Disposal System; Constructed (), Repaired (X), Upgraded (X), Abandoned ()

by: Susan Smith & Peter Shea 23 Stagecoach Road Amherst, MA 01002

at: 23 Stagecoach Road

has been installed in accordance with the provisions of 310 CMR 15.00 (Title 5) and the approved design plans/as-built plans relating to application No. 09-12 dated 11/4/09. Approved design flow 340 (gpd).

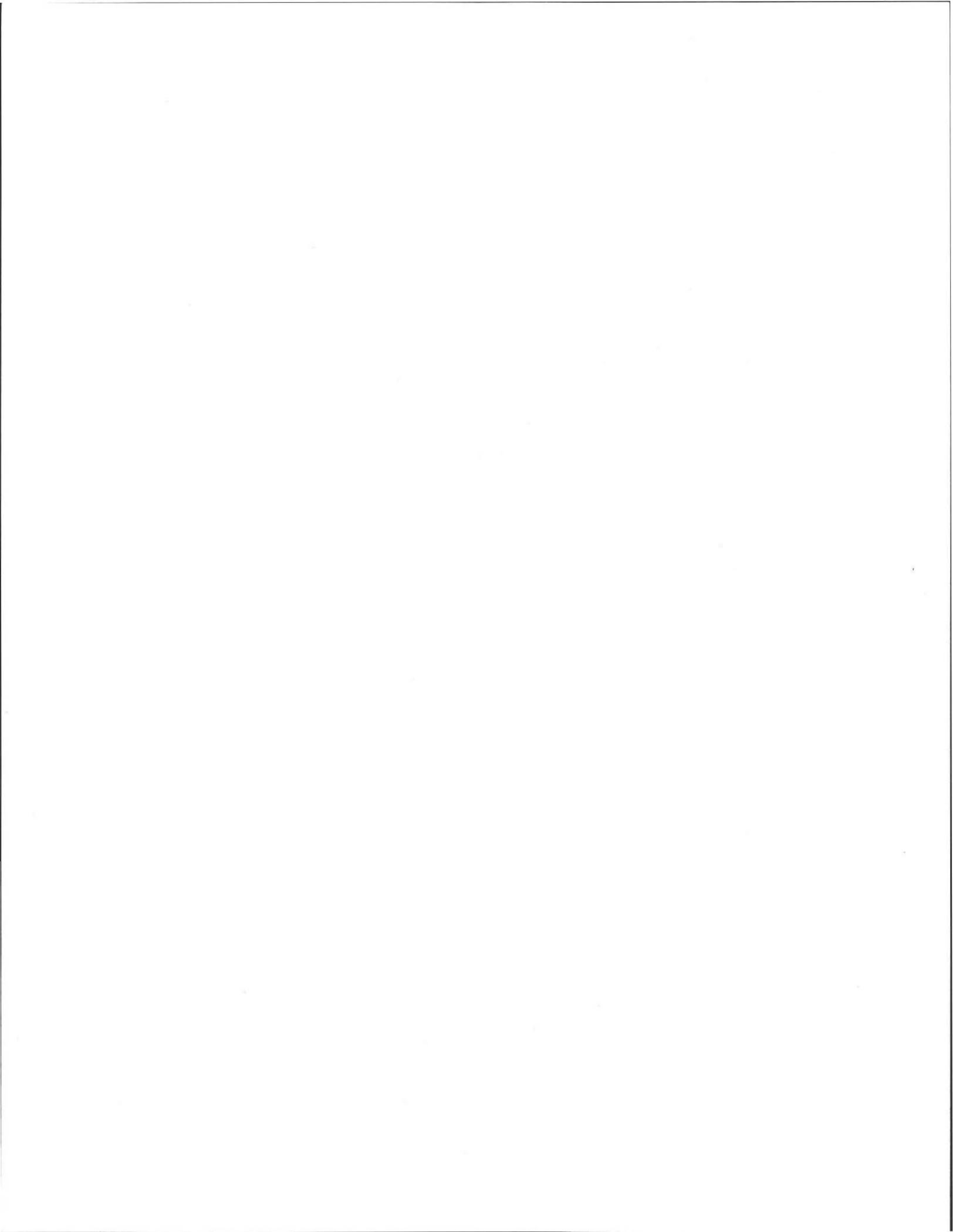
Installer: _____ --- Clean Septics, Inc.

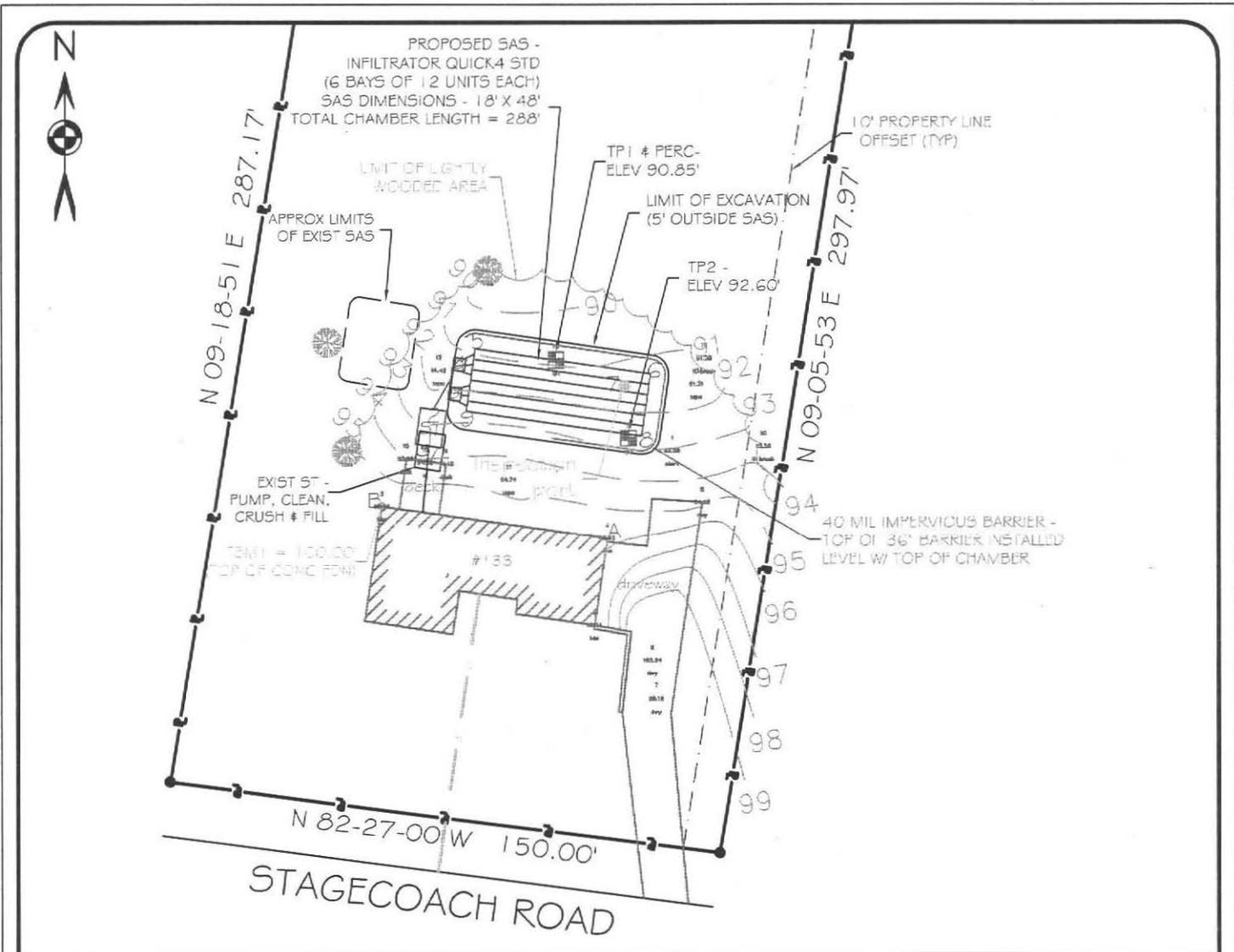
Designer:  Inspector:  Date: 23-Nov-09

The issuance of this permit shall not be construed as a guarantee that the system will function as designed.

DEP APPROVED FORM 5/96

Note: Bottom inspection performed on: 18-Nov-09





		Ties to System Components (ft)		
		A	B	C
ST inlet	(1)	51.7	22.3	
ST outlet	(2)	54.4	29.9	
D-box	(3)	52.8	37.7	
D-box (2)	(4)	58.2	45.5	
SAS (NW)	(5)	57.8	48.0	
SAS (NE)	(6)	42.6	80.4	
Insp port	(7)	39.7	76.8	
SAS (SE)	(8)	29.0	73.8	
SAS (SW)	(9)	48.3	36.4	

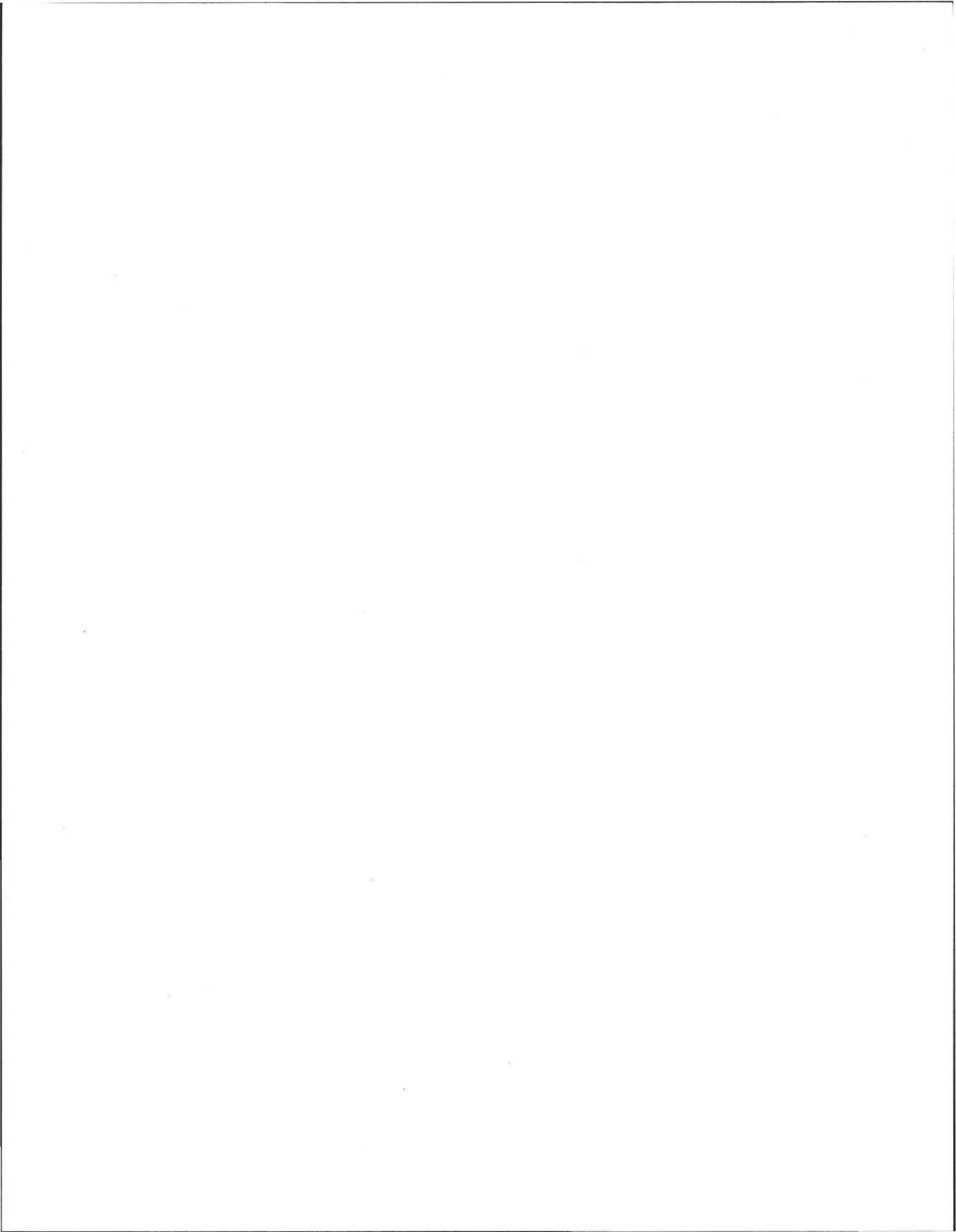


		Invert Elevations (ft)	
Invert at house			n/a
ST inlet	(1)	92.16	
ST outlet	(2)	91.98	
D-box	(3)	89.74	
D-box (2)	(4)	89.74	
SAS (NW)	(5)	89.11	
SAS (NE)	(6)	89.10	
Insp port	(7)		n/a
SAS (SE)	(8)	89.11	
SAS (SW)	(9)	89.11	

Firm Name and Address
Innovative Engineering
 & Consulting, LLC
 110 Chapin Greene Drive
 Ludlow, MA 01056
 Phone: 413-583-7930 FAX: 866-777-0705

Project Name and Address Sewage Disposal System (As-built)
 Susan Smith & Peter Shea
 23 Stagecoach Road
 Amherst, MA 01002

Project	091001	Sheet	AB-1
Date	23-Nov-09	Scale	none



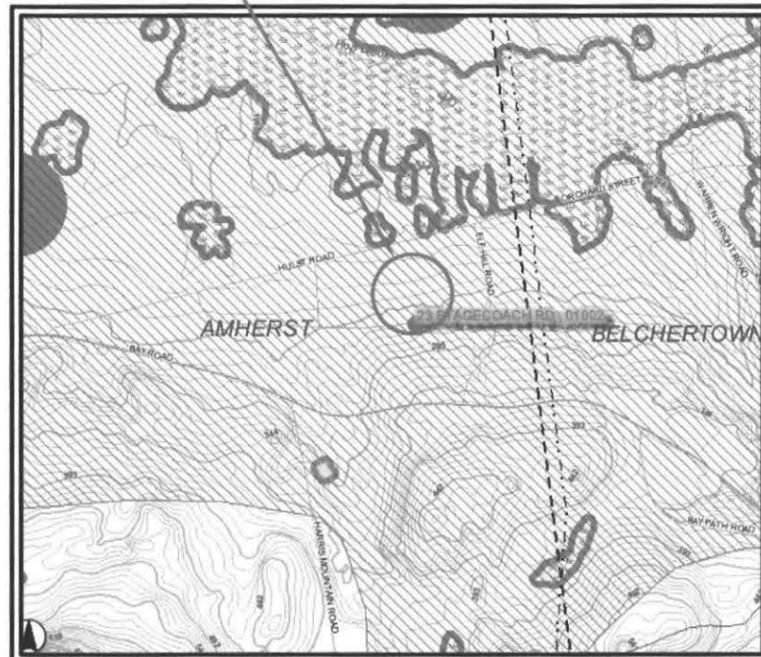
PROPOSED SUB-SURFACE SEWAGE DISPOSAL SYSTEM FOR:

Susan Smith & Peter Shea
23 Stagecoach Road
Amherst, MA 01002

INDEX OF PLAN SHEETS

- C-1 Title page
- C-2 General notes
- C-3 Plan & profile
- C-4 Details

Project location



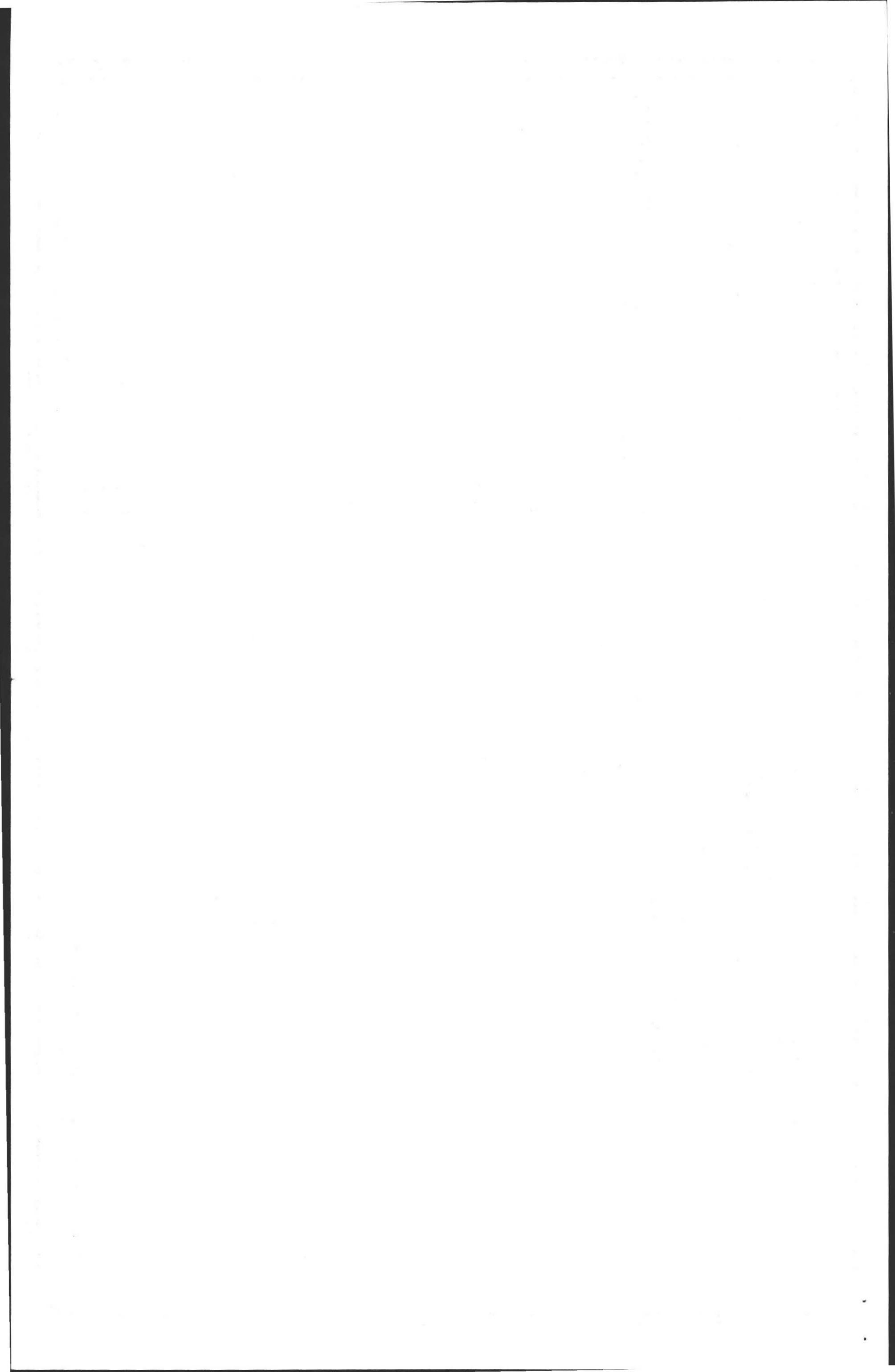
LOCUS PLAN

NOTE(S)

- GARBAGE GRINDER - NONE EXISTING - NOT PERMITTED
- VARIANCES REQ'D - NONE
- NO PRIVATE WELLS EXIST CLOSER THAN 150 FEET (EXCEPT AS SHOWN)



General Notes					
TEST PIT / PERC TEST RESULTS					
(Form 11 & 12 has been filed with City / Town)					
Test Pit / Perc Test Log				Date of Soil Evaluation: 23-Oct-09	
TP1 - Assumed Elev = 90.85'				PERC RATE (min/inch) : 40.0	
Depth (in)	Horizon	Soil Matrix	Soil Texture	Soil Structure	
11	A	10 YR 3/3	SL	FRIABLE	Depth to bedrock: N/A
30	B	10 YR 4/3	LS	FRIABLE	Depth to standing water: 114"
56	C1	10 YR 6/4	SL	FIRM IN PLACE	Depth to weeping: 92"
114	C2	7.5 YR 5/3	SL	FIRM IN PLACE LOOSE IN HAND	Depth to mottles: 90" Depth to EHGWT: 90"
				EHGWT (assumed elev) 83.35'	
TP2 - Assumed Elev = 92.60'					
Depth (in)	Horizon	Soil Matrix	Soil Texture	Soil Structure	
11	A	10 YR 3/3	SL	FRIABLE	Depth to bedrock: N/A
30	B	10 YR 4/3	LS	FRIABLE	Depth to standing water: 114"
56	C1	10 YR 6/4	SL	FIRM IN PLACE	Depth to weeping: 92"
114	C2	7.5 YR 5/3	SL	FIRM IN PLACE LOOSE IN HAND	Depth to mottles: 90" Depth to EHGWT: 90"
				EHGWT (assumed elev) 85.10'	
Soil Evaluator: Nathan Torretti			Witnessed by: Gary Courtemanche		
No.	Revision/Issue				Date
Firm Name and Address Innovative Engineering & Consulting, LLC 110 Chapin Greene Drive Ludlow, MA 01056 Phone: 413/583-7930 FAX: 866/777-0705					
Project	091001				C-1
Date	04-Nov-09				
Scale	none				



GENERAL

- ALL WORK TO BE COMPLETED IN ACCORDANCE WITH 310 CMR 15.000
- INSTALLER TO CONTACT DIG-SAFE (888-344-7233) AT LEAST 72 HRS PRIOR TO ANY EXCAVATION. CITY / TOWN UTILITIES TO BE CONTACTED AS NECESSARY
- REQUIRED INSPECTIONS - SUBGRADE & FINAL (CONTACT ENGINEER 24 HRS IN ADVANCE OF REQUIRED INSPECTIONS)

TITLE 5 FILL REQUIREMENTS

FILL

- FILL MATERIAL SHALL BE CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 INCHES IN SIZE. THE FILL MATERIAL SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE	PERCENT PASSING
#4	100
#50	10 - 100
#100	0 - 20
#200	0 - 5

- FOR PRESBY SYSTEMS, ALL SYSTEM SAND SHALL MEET THE REQUIREMENTS OF ASTM C-33 (MASON'S SAND). SYSTEM INSTALLER SHALL SUBMIT BILL OF LADING AT TIME OF FINAL INSPECTION.

PIPE & BAFFLE SPECIFICATIONS

- PIPE INSTALLED BETWEEN THE BUILDING AND THE SEPTIC TANK SHALL BE SCH40 PVC AND SHALL BE INSTALLED AT A MINIMUM SLOPE OF 0.02 FT PER FT.
- PIPE INSTALLED BETWEEN THE SEPTIC TANK AND DISTRIBUTION BOX (OR PUMP CHAMBER, IF APPLICABLE) SHALL BE SCH40 PVC AND SHALL BE INSTALLED AT A MINIMUM SLOPE OF 0.01 FT. PER FT.
- PIPE EXITING THE DISTRIBUTION BOX SHALL BE SDR35 AND SHALL BE INSTALLED LEVEL FOR THE FIRST TWO (2) FEET MINIMUM. THEREAFTER, THE PIPE SHALL BE INSTALLED AT A SLOPE OF 0.005 FT. PER FT. AND SHALL BE PERFORATED ONLY IN THE LEACHING AREA
- PIPE BETWEEN PUMP CHAMBER (IF REQ'D) AND D-BOX SHALL BE SCH40 PVC - DRILL 1/4" HOLE IN PIPE ON D-BOX SIDE OF CHECK VALVE TO PERMIT FREE DRAINING BACK INTO PUMP CHAMBER WHEN PUMP IS OFF (SEE DETAIL ON SHT C-5)
- SEPTIC TANK BAFFLES SHALL BE CONSTRUCTED FROM SCH40 PVC PIPE & FITTINGS AND SHALL EXTEND A MINIMUM OF 6" ABOVE THE FLOW LINE OF THE SEPTIC TANK. BAFFLES SHALL BE LOCATED BENEATH THE TANK CLEAN-OUTS AND WITHIN 12" OF EACH END OF THE TANK. THERE SHALL BE A MINIMUM 3" AIR SPACE BETWEEN THE TOP OF THE BAFFLE AND THE UNDERSIDE OF THE TOP OF THE TANK. THE INLET BAFFLE SHALL EXTEND A MINIMUM OF 10" BELOW THE TANK FLOW LINE AND THE OUTLET BAFFLE SHALL EXTEND BELOW THE TANK FLOW LINE IN ACCORDANCE WITH THE FOLLOWING TABLE:

LIQUID DEPTH IN TANK	DEPTH OF BAFFLE BELOW FLOW LINE
4 FT.	14 IN.
5 FT.	19 IN.
6 FT.	24 IN.
7 FT.	29 IN.
8 FT.	34 IN.

- INSTALL DEP-APPROVED EFFLUENT FILTER ON OUTLET TEE
(SEE [HTTP://WWW.MASS.GOV/DEP/WATER/WASTEWATER/EFFLUENT.HTM](http://www.mass.gov/dep/water/wastewater/effluent.htm) FOR APPROVED FILTERS)

City/Town of Amherst
Septic System Design Calculations

Basic Data

Perc Rate: 40 mm/inch, Soil Texture: SANDY LOAM Soil Class: III Loading Rate: 0.25 gpd / sf = A
Number of bedrooms: 3 = B Is a garbage disposal to be installed? NO (Yes / No)

System Sewage Flow

(B) 3 x 110 gpd / bedroom = 330 gpd = C

Septic Tank Size

(C) 330 x 2 = 660 gallons = D

If D is less than 1500 gallons, use 1500 gallon minimum size

If D is greater than 1500 gallons, use D as minimum size

Use 1500 gallon septic tank (minimum size), or _____ gallon existing septic tank

Chamber Calculations

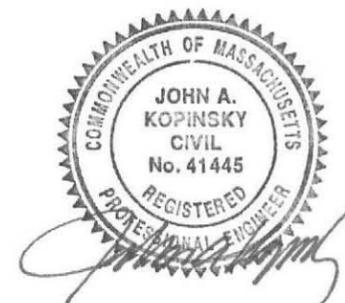
Chamber Manufacturer Infiltrator Model Designation Quick4 Standard
Effective leaching area per foot of chamber 4.72 SF / LF = M, No. of chamber: 72 = N
Length each chamber 4 feet = P, Leaching area (M x N x P): 1352 SF = R

Soil Absorption System Capacity

(1 or L or R) = 1352 x A 0.25 = 340 gpd = S

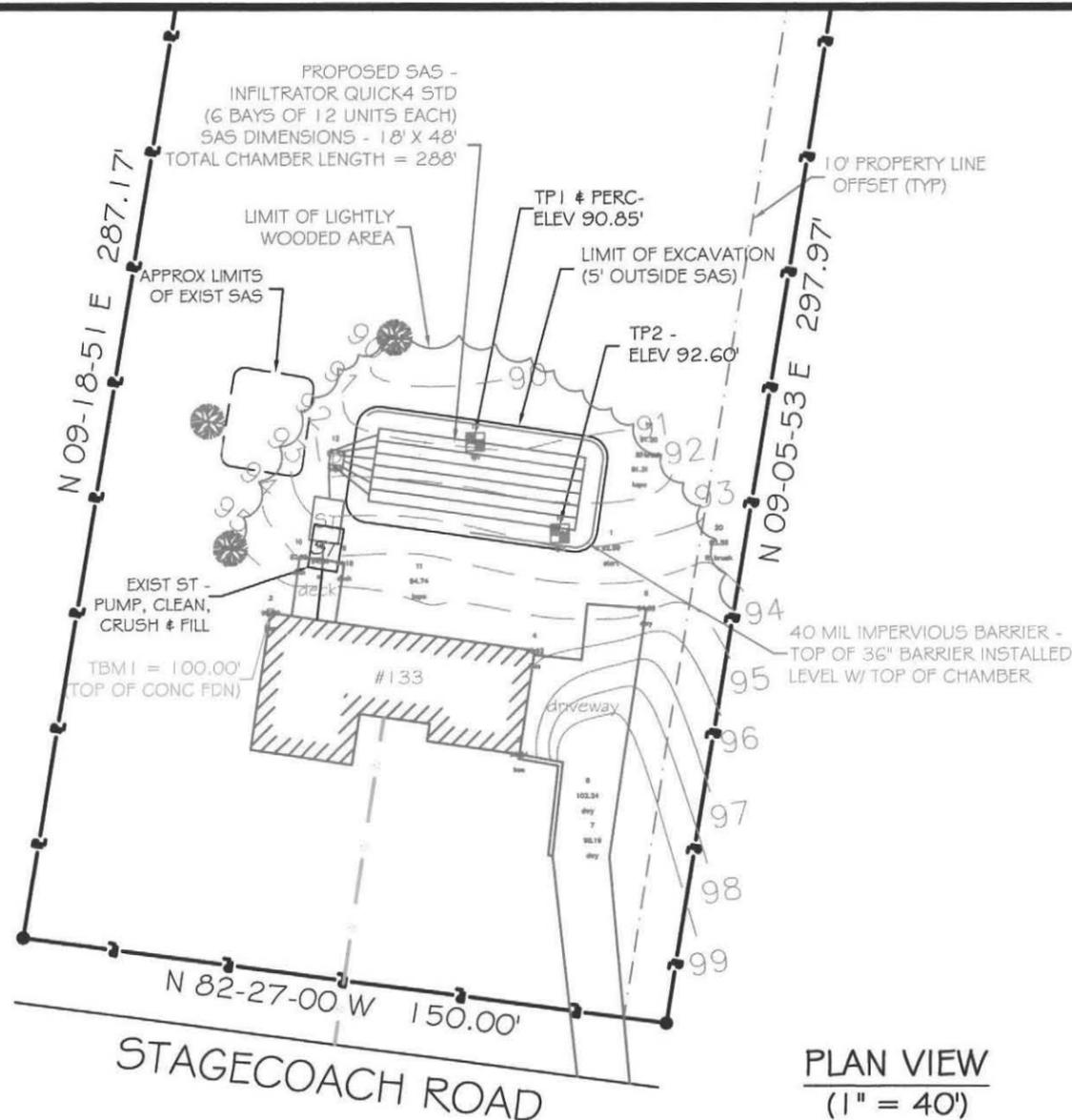
Summary

- X If no garbage disposal is to be installed, (S) 340 gpd must be equal or greater than C 330 gpd
- If a garbage disposal is to be installed, (S) 340 gpd must be equal or greater than 1.5 C 495 gpd



Firm Name and Address Innovative Engineering & Consulting, LLC 110 Chapin Greene Drive Ludlow, MA 01056 Phone: 413/583-7930 FAX: 866/777-0705	
Project Name and Address Susan Smith & Peter Shea 23 Stagecoach Road Amherst, MA 01002	
Project	091001
Date	04-Nov-09
Scale	none
Sheet C-2	



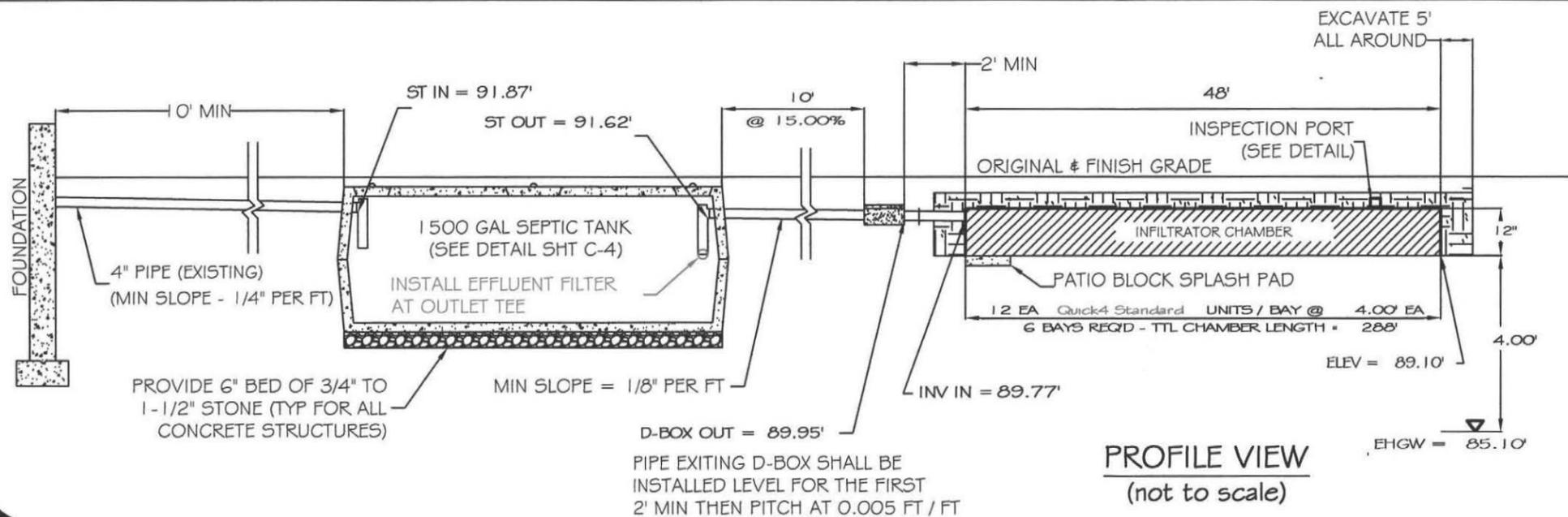


LEGEND

- EXISTING ST
- EXISTING WELL
- TEST PIT / PERC
- IRON PIN FOUND
- TEMP BENCHMARK
- SPOT GRADE
- PROP SEPTIC TANK
- PROP PUMP CHAMBER
- PROP D-BOX
- CONCRETE SURFACE



PLAN VIEW
(1" = 40')



PROFILE VIEW
(not to scale)

General Notes

GENERAL

- TBM 1 = 100.00' (TOP OF CONC FDN WALL)
- PROPOSED COMPONENTS SHOWN IN BLUE
- EXISTING CONTOURS SHOWN DASHED (GREY), PROPOSED CONTOURS TO MATCH EXISTING

SAS SYSTEM

- REMOVE ALL "A" & "B" SOIL HORIZONS TO 30" MIN. DEPTH TO 5 FT LIMIT OUTSIDE OF PROPOSED SAS PRIOR TO PLACING APPROVED TITLE 5 FILL (SEE SHEET C-1 FOR SOIL LOGS)
- MAINTAIN 100 FT MIN. SETBACK FROM PRIVATE WELL(S) & 20 FT MIN. SETBACK FROM CELLAR WALL
- FINISH GRADE OVER SAS VARIES

MAINTENANCE

- SEPTIC TANK SHALL BE PUMPED IN ACCORDANCE WITH 310 CMR 15.351 - RECOMMENDED ON AN ANNUAL BASIS OR, AT A MINIMUM, EVERY THREE YEARS

MISCELLANEOUS

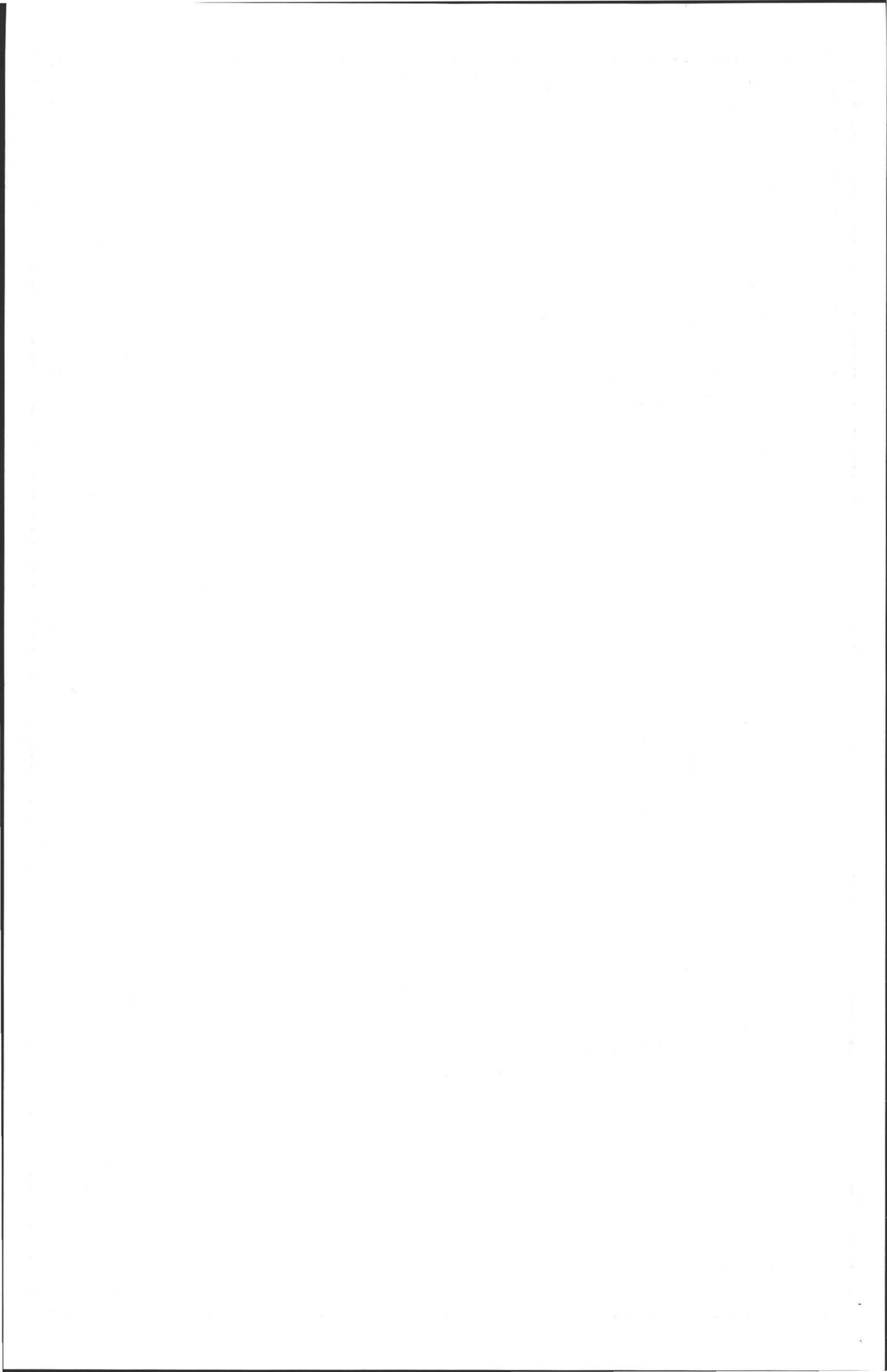
- NO WELLS EXIST WITHIN 150 FT OF THE PROPOSED SYSTEM (EXCEPT AS SHOWN)
- GARBAGE GRINDERS AND/OR WATER PURIFICATION OR FILTRATION SYSTEMS ARE NOT PERMITTED TO BE USED WITH THIS SYSTEM WITHOUT PRIOR APPROVAL OF THE TOWN AND / OR THE ENGINEER
- REPAIR ALL EXISTING PAVEMENT DAMAGED DURING INSTALLATION
- LOAM & SEED ALL DISTURBED AREAS
- THERE SHALL BE NO TREES OR SHRUBS (EXISTING OR PROPOSED) WITHIN 10 FEET OF ANY PROPOSED SYSTEM COMPONENT

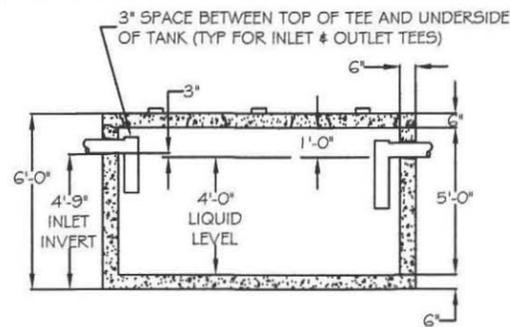
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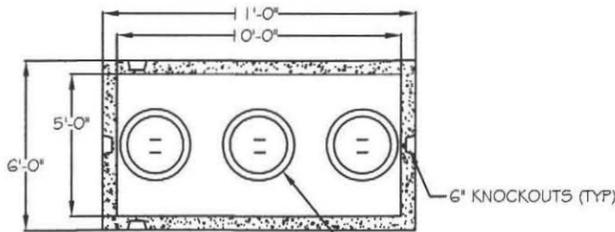
Project Name and Address
 Susan Smith & Peter Shea
 23 Stagecoach Road
 Amherst, MA 01002

Project	091001	Sheet C-3
Date	04-Nov-09	
Scale	as noted	





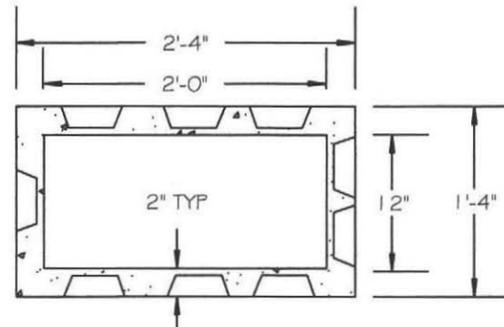
SIDE ELEVATION



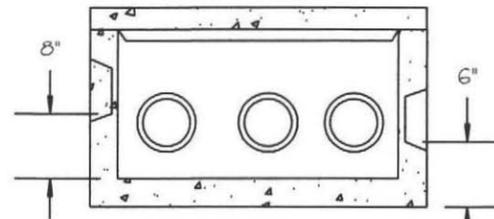
PLAN VIEW

SEPTIC TANK (1500 GAL)

1. CONCRETE - 4500 PSI (28 DAYS)
2. REINFORCEMENT - ASTM A-615, GR 60
3. LOADING AASHTO HS 10-44
4. JOINTS SEALED WITH MASTIC SEALANT
5. CONSTRUCT TEES WITH SCH40 PVC PIPE & FITTINGS - GLUED
6. INSTALL DEP-APPROVED EFFLUENT FILTER ON OUTLET TEE



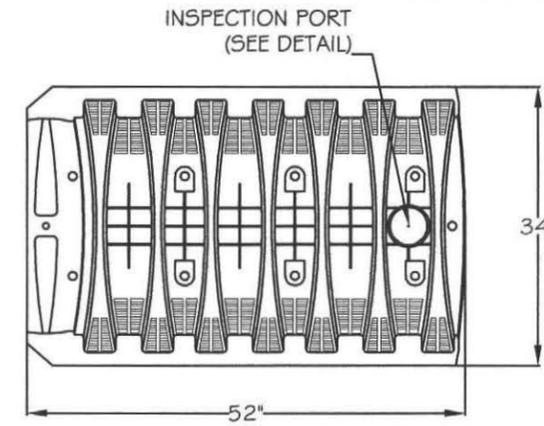
PLAN VIEW (W/O COVER)



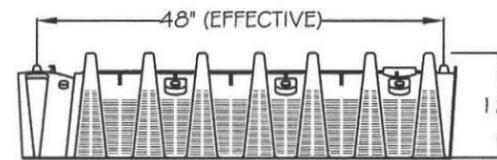
SIDE ELEVATION

DISTRIBUTION BOX - 8 HOLE

1. CONCRETE - 4000 PSI, 28 DAYS
2. ALL OPENINGS ARE FOR 4" PIPE
3. INSTALL PVC BAFFLE (TEE) FOR SLOPES EXCEEDING 8% FROM SEPTIC TANK

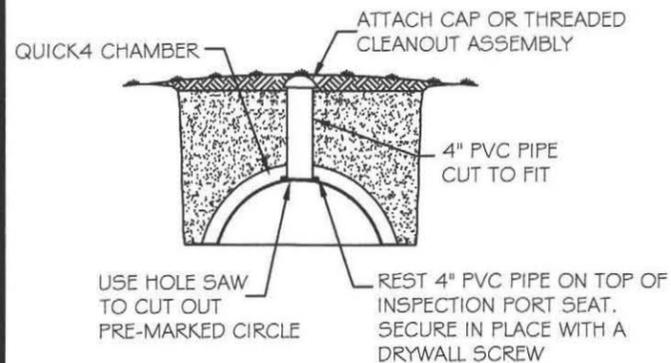


PLAN VIEW

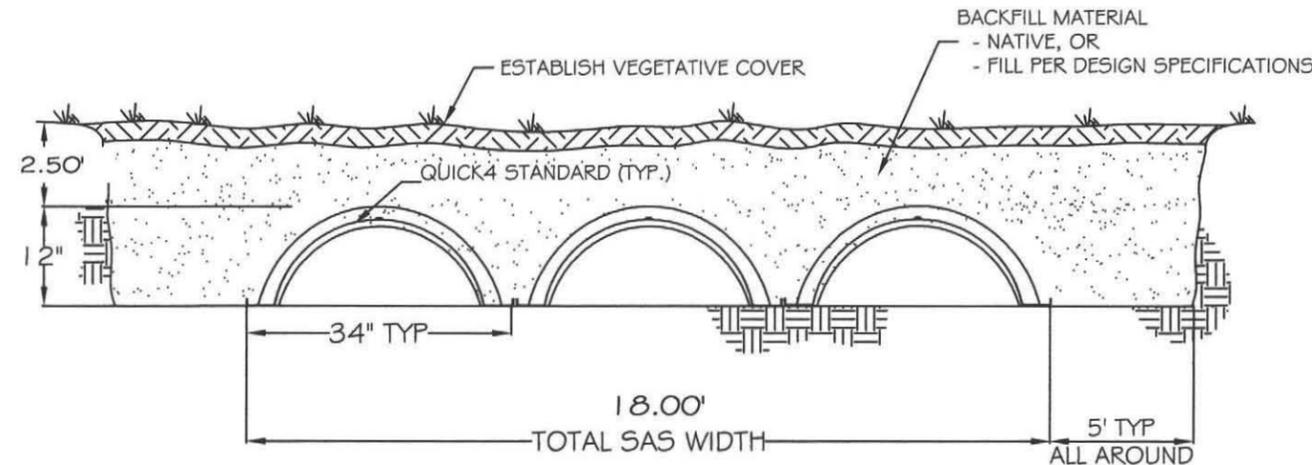


SIDE ELEVATION

**INFILTRATOR SYSTEMS INC.
QUICK4 STANDARD CHAMBER**



QUICK4 CHAMBER INSPECTION PORT



CROSS SECTION - BED
(3 BAYS SHOWN - 6 REQ'D)

KEY ELEVATIONS

	Invert (ft)	
Bldg - out	92.07	mm
Septic tank in	91.87	
Septic tank out	91.62	
D-box in	90.12	
D-box out	89.95	
Chamber - in	89.77	
Chamber - bottom	89.10	
EHGW	85.10	



General Notes

SEPTIC TANK

- INSTALL SEPTIC TANK LEVEL AND TRUE ON 6" BED OF 3/4" TO 1-1/2" STONE
- MAINTAIN 50 FT MIN. SETBACK FROM PRIVATE WELL(S) AND 10 FT MIN. SETBACK FROM CELLAR WALL
- INSTALL RISERS TO WITHIN 9" OF FINISH GRADE (AS REQ'D)
- INSTALL DEP-APPROVED EFFLUENT FILTER ON OUTLET TEE (SEE [HTTP://WWW.MASS.GOV/DEP/WATER/WASTEWATER/EFFLUENT.HTM](http://www.mass.gov/dep/water/wastewater/effluent.htm) FOR APPROVED FILTERS) - FILTER MUST BE CLEANED ANNUALLY!

DISTRIBUTION BOX

- D-BOX SHALL BE SET LEVEL AND TRUE ON 6" BED OF 3/4" TO 1-1/2" STONE
- INSTALL BAFFLE INSIDE D-BOX FOR 4" LINE FROM ST
- INSTALL "SPEED-LEVELERS" ON ALL OUTLET PIPES

SAS SYSTEM

- INSTALLER TO SUBMIT PROPOSED TITLE 5 FILL FOR APPROVAL PRIOR TO DELIVERY OF MATERIAL
- INSTALL 4" INSPECTION PORT W/ THREADED CAP TO WITHIN 3" OF FINISH GRADE ON ONE LATERAL ONLY
- ALL ATTACHMENTS OF PIPE TO SAS CHAMBERS SHALL BE ACCOMPLISHED WITH STAINLESS STEEL SCREWS

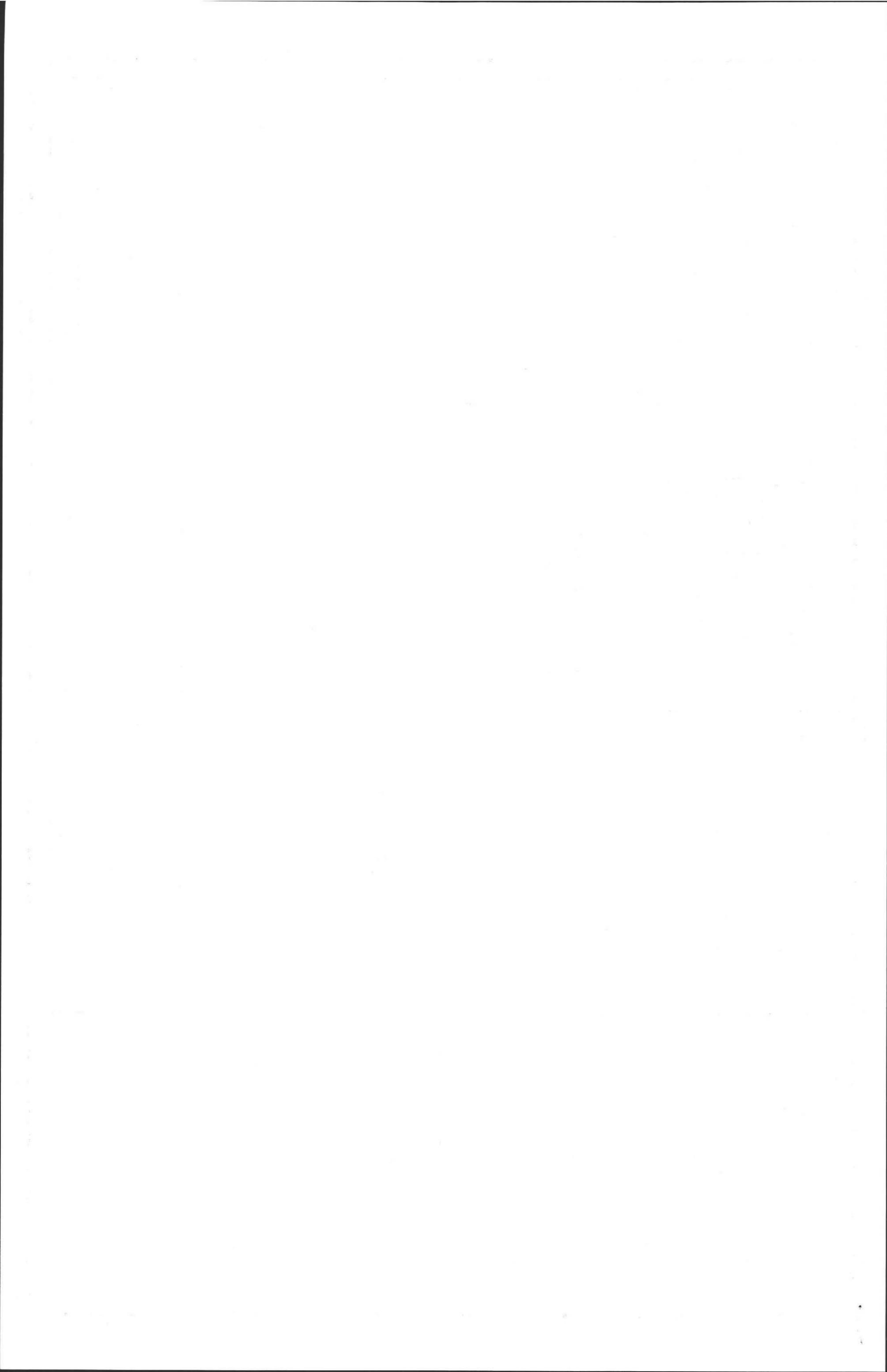
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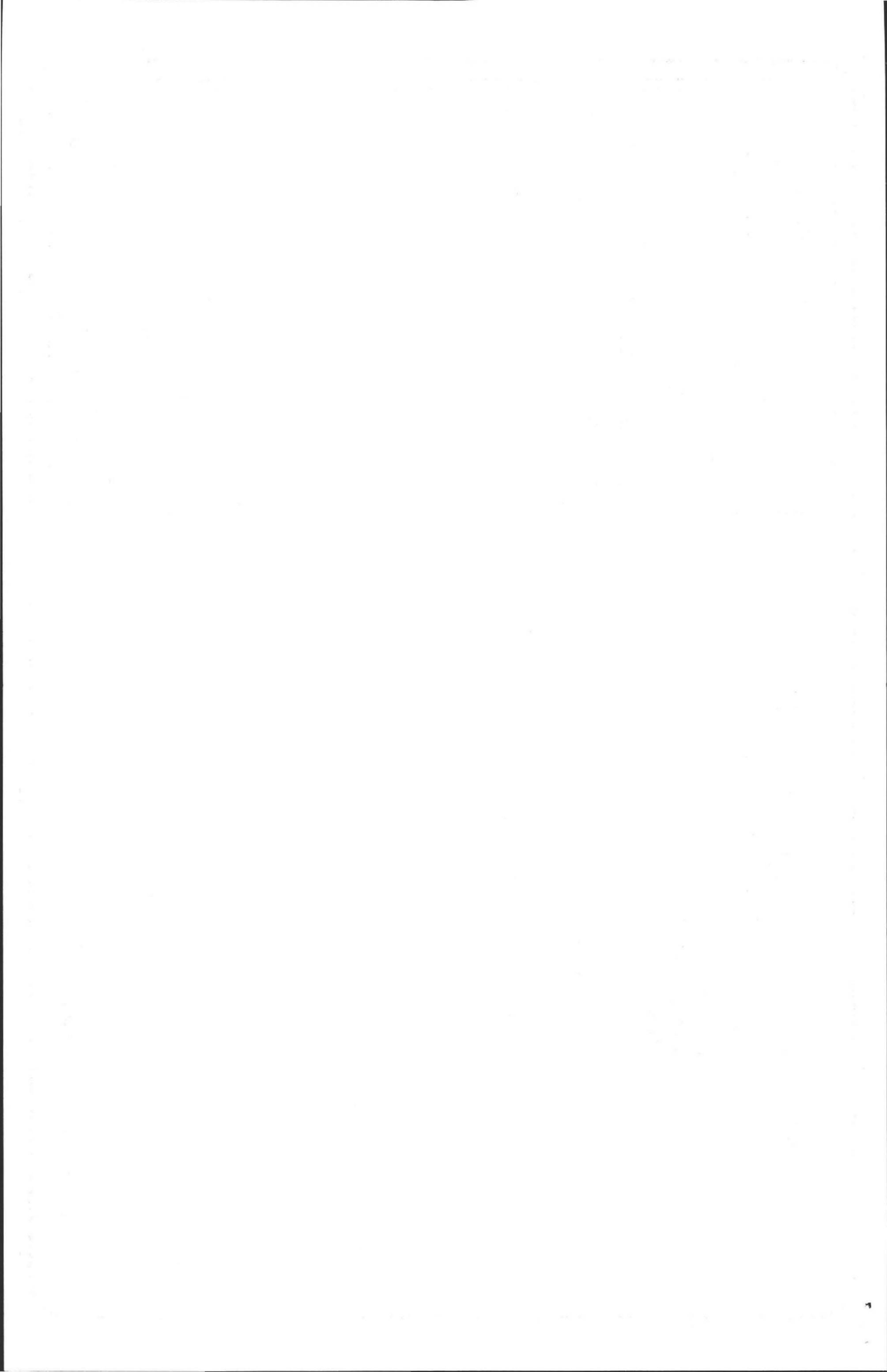
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Project 091001
 Date 04-Nov-09
 Scale none

Sheet
C-4





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- FILL MATERIAL SHALL BE CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 INCHES IN SIZE. THE FILL MATERIAL SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE	PERCENT PASSING
#4	100
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- FOR PRESBY SYSTEMS, ALL SYSTEM SAND SHALL MEET THE REQUIREMENTS OF ASTM C-33 (MASON'S SAND). SYSTEM INSTALLER SHALL SUBMIT BILL OF LADING AT TIME OF FINAL INSPECTION.

PIPE & BAFFLE SPECIFICATIONS

- PIPE INSTALLED BETWEEN THE BUILDING AND THE SEPTIC TANK SHALL BE SCH40 PVC AND SHALL BE INSTALLED AT A MINIMUM SLOPE OF 0.02 FT PER FT.
- PIPE INSTALLED BETWEEN THE SEPTIC TANK AND DISTRIBUTION BOX (OR PUMP CHAMBER, IF APPLICABLE) SHALL BE SCH40 PVC AND SHALL BE INSTALLED AT A MINIMUM SLOPE OF 0.01 FT. PER FT.
- PIPE EXITING THE DISTRIBUTION BOX SHALL BE SDR35 AND SHALL BE INSTALLED LEVEL FOR THE FIRST TWO (2) FEET MINIMUM. THEREAFTER, THE PIPE SHALL BE INSTALLED AT A SLOPE OF 0.005 FT. PER FT. AND SHALL BE PERFORATED ONLY IN THE LEACHING AREA
- PIPE BETWEEN PUMP CHAMBER (IF REQ'D) AND D-BOX SHALL BE SCH40 PVC - DRILL 1/4" HOLE IN PIPE ON D-BOX SIDE OF CHECK VALVE TO PERMIT FREE DRAINING BACK INTO PUMP CHAMBER WHEN PUMP IS OFF (SEE DETAIL ON SHT C-5)
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4 FT.	14 IN.
5 FT.	19 IN.
6 FT.	24 IN.
7 FT.	29 IN.
8 FT.	34 IN.

- INSTALL DEP-APPROVED EFFLUENT FILTER ON OUTLET TEE
(SEE [HTTP://WWW.MASS.GOV/DEP/WATER/WASTEWATER/EFFLUENT.HTM](http://www.mass.gov/dep/water/wastewater/effluent.htm) FOR APPROVED FILTERS)

City/Town of Amherst

Septic System Design Calculations

Basic Data

Perc Rate: 40 in/inch, Soil Texture: SANDY LOAM Soil Class: III Loading Rate: 0.25 gpd / sf = A
 Number of bedrooms: 3 = B Is a garbage disposal to be installed? NO (Yes / No)

System Sewage Flow

(B) $3 \times 110 \text{ gpd / bedroom} = 330 \text{ gpd} = C$

Septic Tank Size

(C) $330 \times 2 = 660 \text{ gallons} = D$

If D is less than 1500 gallons, use 1500 gallon minimum size

If D is greater than 1500 gallons, use D as minimum size

Use 1500 gallon septic tank (minimum size), or _____ gallon existing septic tank

Chamber Calculations

Chamber Manufacturer: Infiltrator Model Designation: Quick4 Standard

Effective leaching area per foot of chamber: 4.72 SF / LF = M, No. of chamber: 72 = N

Length each chamber: 4 feet = P, Leaching area (M x N x P): 1359 SF = R

Soil Absorption System Capacity

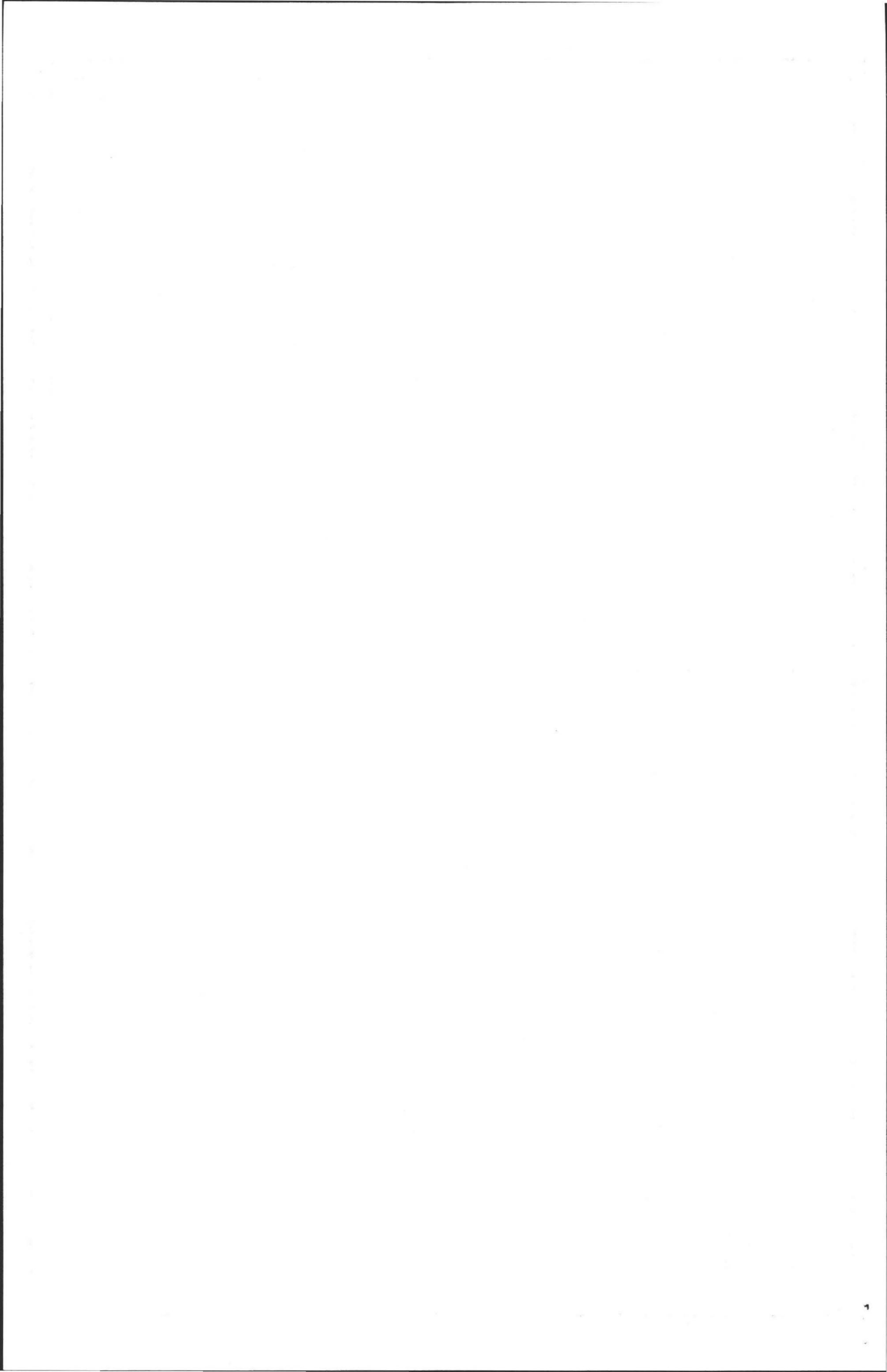
(1 or L or R) = $1359 \times A \ 0.25 = 340 \text{ gpd} = S$

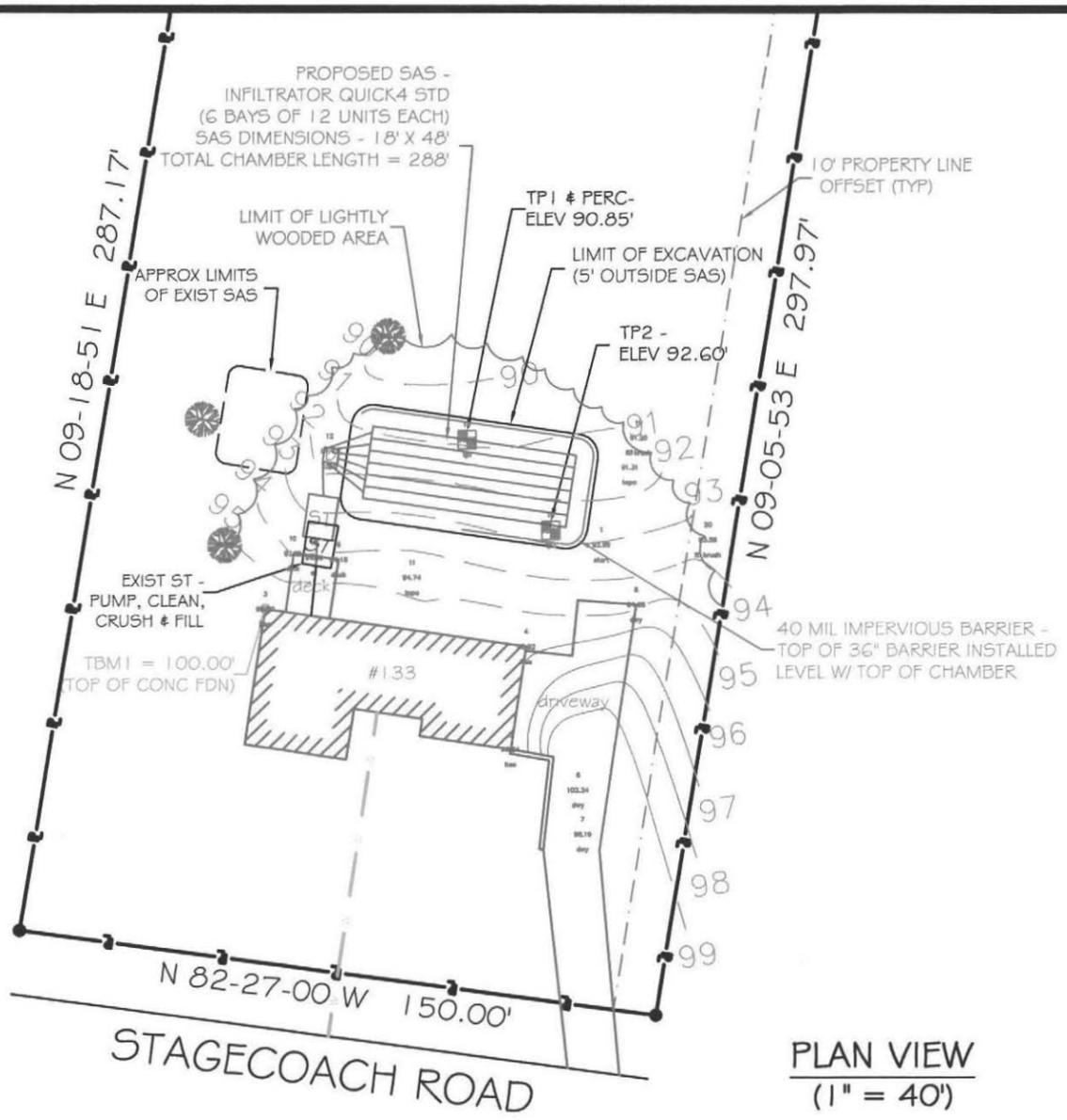
Summary

If no garbage disposal is to be installed, (S) 340 gpd must be equal or greater than C 330 gpd
 If a garbage disposal is to be installed, (S) 340 gpd must be equal or greater than 1.5 C 495 gpd



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Project Name and Address Susan Smith & Peter Shea 23 Stagecoach Road Amherst, MA 01002	
Project	091001
Date	04-Nov-09
Scale	none
C-2	





PLAN VIEW
(1" = 40')

LEGEND

	EXISTING ST
	EXISTING WELL
	TEST PIT / PERC
	IRON PIN FOUND
	TEMP BENCHMARK
	SPOT GRADE
	PROP SEPTIC TANK
	PROP PUMP CHAMBER
	PROP D-BOX
	CONCRETE SURFACE



- General Notes**
- GENERAL**
- TBM 1 = 100.00' (TOP OF CONC FDN WALL)
 - PROPOSED COMPONENTS SHOWN IN BLUE
 - EXISTING CONTOURS SHOWN DASHED (GREY), PROPOSED CONTOURS TO MATCH EXISTING

- SAS SYSTEM**
- REMOVE ALL "A" & "B" SOIL HORIZONS TO 30" MIN. DEPTH TO 5 FT LIMIT OUTSIDE OF PROPOSED SAS PRIOR TO PLACING APPROVED TITLE 5 FILL (SEE SHEET C-1 FOR SOIL LOGS)
 - MAINTAIN 100 FT MIN. SETBACK FROM PRIVATE WELL(S) & 20 FT MIN. SETBACK FROM CELLAR WALL
 - FINISH GRADE OVER SAS VARIES

- MAINTENANCE**
- SEPTIC TANK SHALL BE PUMPED IN ACCORDANCE WITH 310 CMR 15.351 - RECOMMENDED ON AN ANNUAL BASIS OR, AT A MINIMUM, EVERY THREE YEARS

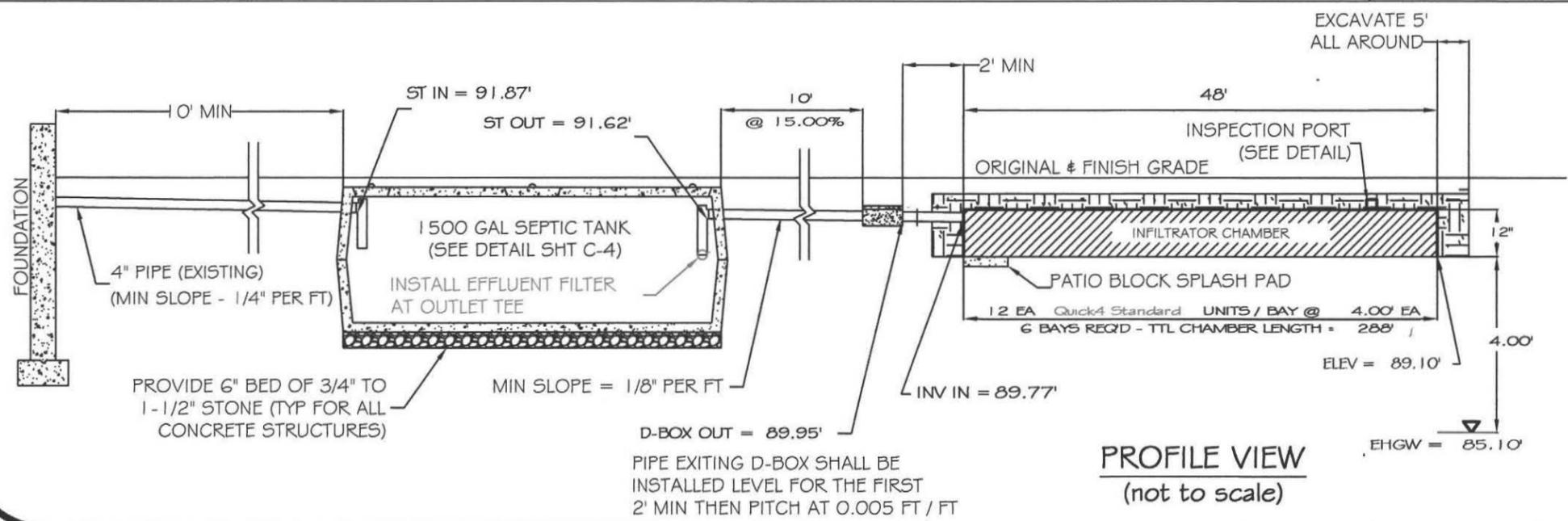
- MISCELLANEOUS**
- NO WELLS EXIST WITHIN 150 FT OF THE PROPOSED SYSTEM (EXCEPT AS SHOWN)
 - GARBAGE GRINDERS AND/OR WATER PURIFICATION OR FILTRATION SYSTEMS ARE NOT PERMITTED TO BE USED WITH THIS SYSTEM WITHOUT PRIOR APPROVAL OF THE TOWN AND / OR THE ENGINEER
 - REPAIR ALL EXISTING PAVEMENT DAMAGED DURING INSTALLATION
 - LOAM & SEED ALL DISTURBED AREAS
 - THERE SHALL BE NO TREES OR SHRUBS (EXISTING OR PROPOSED) WITHIN 10 FEET OF ANY PROPOSED SYSTEM COMPONENT

No.	Revision/Issue	Date

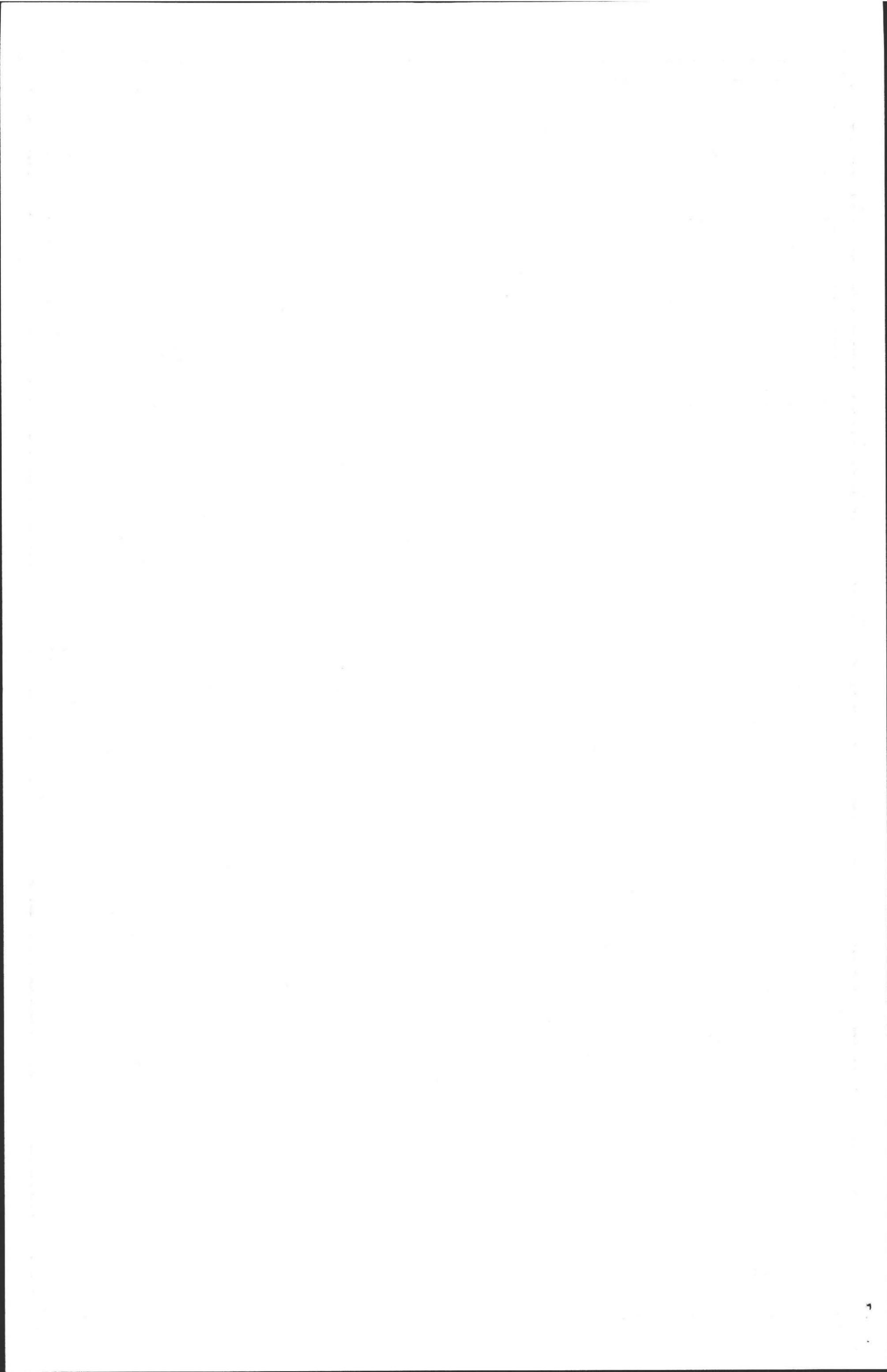
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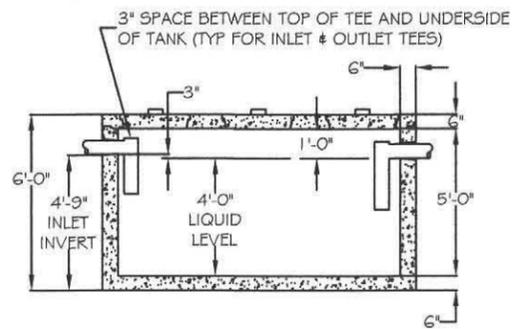
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Project	091001	Sheet	C-3
Date	04-Nov-09		
Scale	as noted		

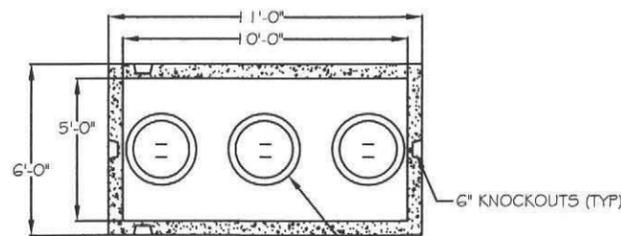


PROFILE VIEW
(not to scale)





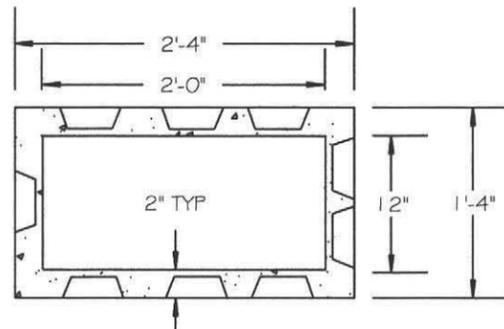
SIDE ELEVATION



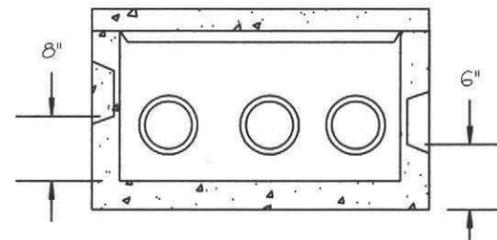
PLAN VIEW 24" COVERS (3)

SEPTIC TANK (1500 GAL)

1. CONCRETE - 4500 PSI (28 DAYS)
2. REINFORCEMENT - ASTM A-615, GR. 60
3. LOADING AASHTO HS 10-44
4. JOINTS SEALED WITH MASTIC SEALANT
5. CONSTRUCT TEES WITH SCH40 PVC PIPE & FITTINGS - GLUED
6. INSTALL DEP-APPROVED EFFLUENT FILTER ON OUTLET TEE



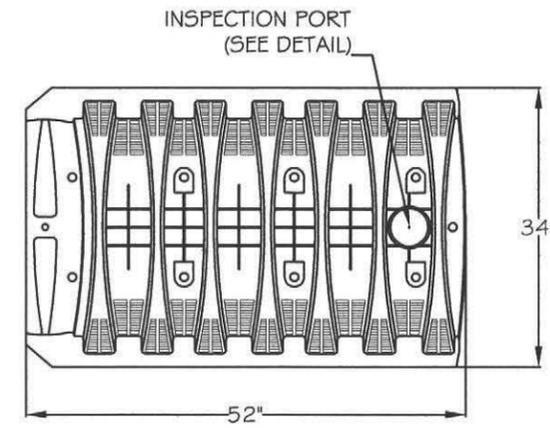
PLAN VIEW (W/O COVER)



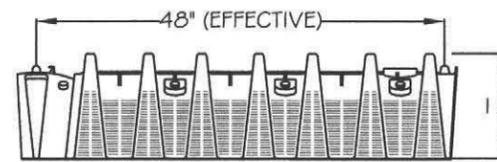
SIDE ELEVATION

DISTRIBUTION BOX - 8 HOLE

1. CONCRETE - 4000 PSI, 28 DAYS
2. ALL OPENINGS ARE FOR 4" PIPE
3. INSTALL PVC BAFFLE (TEE) FOR SLOPES EXCEEDING 8% FROM SEPTIC TANK

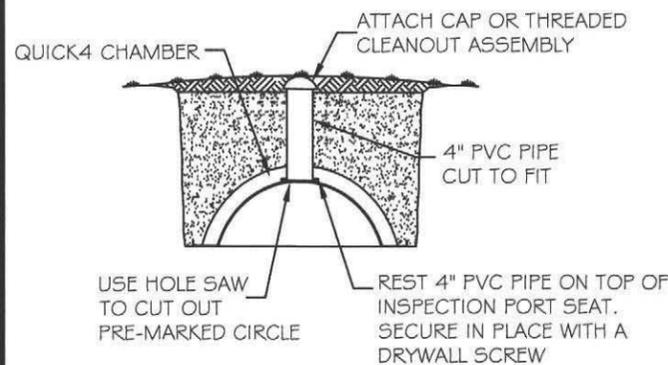


PLAN VIEW

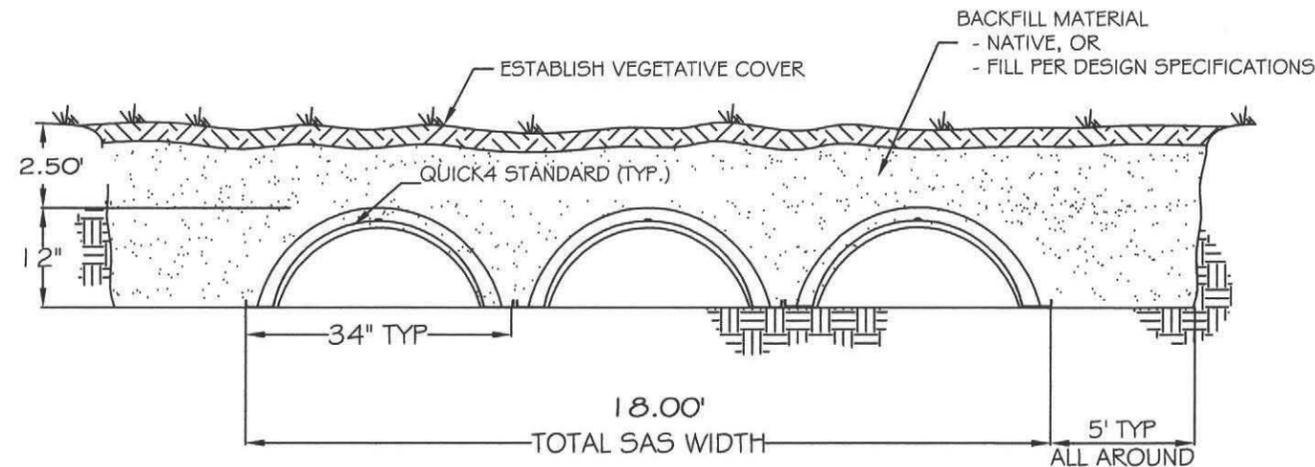


SIDE ELEVATION

INFILTRATOR SYSTEMS INC. QUICK4 STANDARD CHAMBER



QUICK4 CHAMBER INSPECTION PORT



CROSS SECTION - BED
(3 BAYS SHOWN - 6 REQ'D)

KEY ELEVATIONS

	Invert (ft.)	
Bldg. - out	92.07	mm
Septic tank in	91.87	
Septic tank out	91.62	
D-box in	90.12	
D-box out	89.95	
Chamber - in	89.77	
Chamber - bottom	89.10	
EHGW	85.10	



General Notes

SEPTIC TANK

- INSTALL SEPTIC TANK LEVEL AND TRUE ON 6" BED OF 3/4" TO 1-1/2" STONE
- MAINTAIN 50 FT MIN. SETBACK FROM PRIVATE WELL(S) AND 10 FT MIN. SETBACK FROM CELLAR WALL
- INSTALL RISERS TO WITHIN 9" OF FINISH GRADE (AS REQ'D)
- INSTALL DEP-APPROVED EFFLUENT FILTER ON OUTLET TEE (SEE [HTTP://WWW.MASS.GOV/DEP/WATER/WASTEWATER/EFFLUENT.HTM](http://www.mass.gov/dep/water/wastewater/effluent.htm) FOR APPROVED FILTERS) - FILTER MUST BE CLEANED ANNUALLY

DISTRIBUTION BOX

- D-BOX SHALL BE SET LEVEL AND TRUE ON 6" BED OF 3/4" TO 1-1/2" STONE
- INSTALL BAFFLE INSIDE D-BOX FOR 4" LINE FROM ST
- INSTALL "SPEED-LEVELERS" ON ALL OUTLET PIPES

SAS SYSTEM

- INSTALLER TO SUBMIT PROPOSED TITLE 5 FILL FOR APPROVAL PRIOR TO DELIVERY OF MATERIAL
- INSTALL 4" INSPECTION PORT W/ THREADED CAP TO WITHIN 3" OF FINISH GRADE ON ONE LATERAL ONLY
- ALL ATTACHMENTS OF PIPE TO SAS CHAMBERS SHALL BE ACCOMPLISHED WITH STAINLESS STEEL SCREWS

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