ZEN Design Consultants, Inc.

6 Old North Plank Road Newburgh, New York 12550

AUG 2 2 2016

Re: Tarben Subdivision 16 Lot Residential Subdivision Revere Road

Dear Planning Board:

Since our last meeting with the planning board we were contacted by the owner of the parcel along the south eastern edge of the subdivision. We were able to come to an agreement and will be readding this parcel back to our subdivision plan allowing the lots along this edge to go back to the original approved layout and the pond will remain as originally designed and installed.

Comments addressed from McGoey, Hauser & Edsall, dated 08/01/2016:

- Revisions to the subdivision must be submitted to the Orange County Health Department for review and approval as project previously received Health Department Approval.
 Revised plans have been submitted to the OCHD and awaiting their response.
- 2. Stormwater Management pond has been revised. Revsied Stormwater Management Report should be submitted modeling the revised pond.

The ponds location will remain in its original proposed location without change.

3. Cross grading easements should be provided for grading of roadways and grading depicted across lot lines.

This has been added to the plans.

dedicated in the future.

- 4. Mike Donnelly's comments regarding the proposed easement depicted on what is now lot 12, which if dedicated for roadway purposes would segment lot 12, should be received.

 We relocated the proposed easement to follow along the adjoining property line.
- 5. Lot 16 is depicted as a 1.23 acre parcel. The narrative identifies that lots 14, 15, & 16 were combines into 1 lot.

This is correct and with the removal of the property on the west side of the project we needed to combine these lots into 1 single lot.

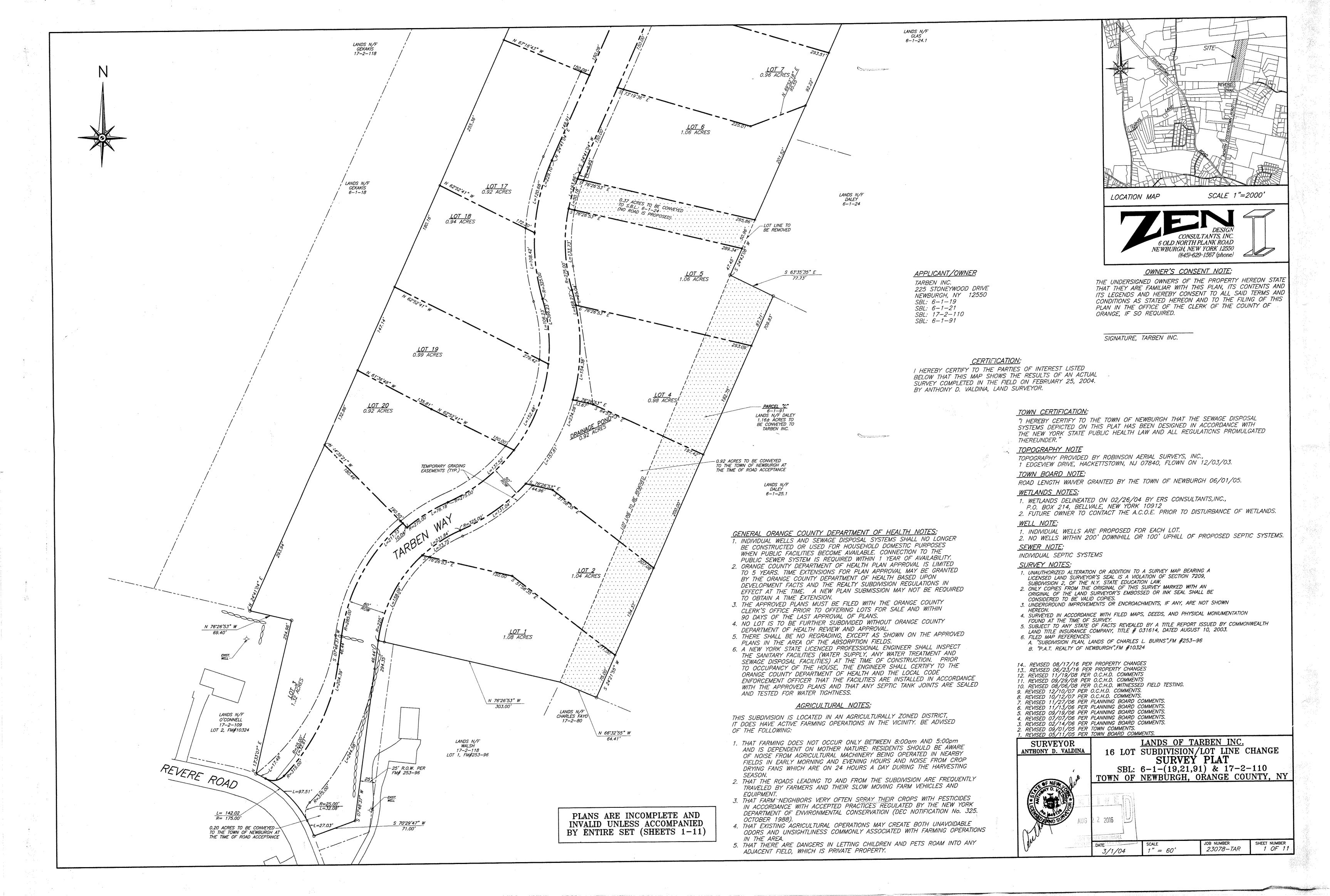
6. The planning board should evaluate the location of the cul-de-sac which terminates prior to the adjoining lots.

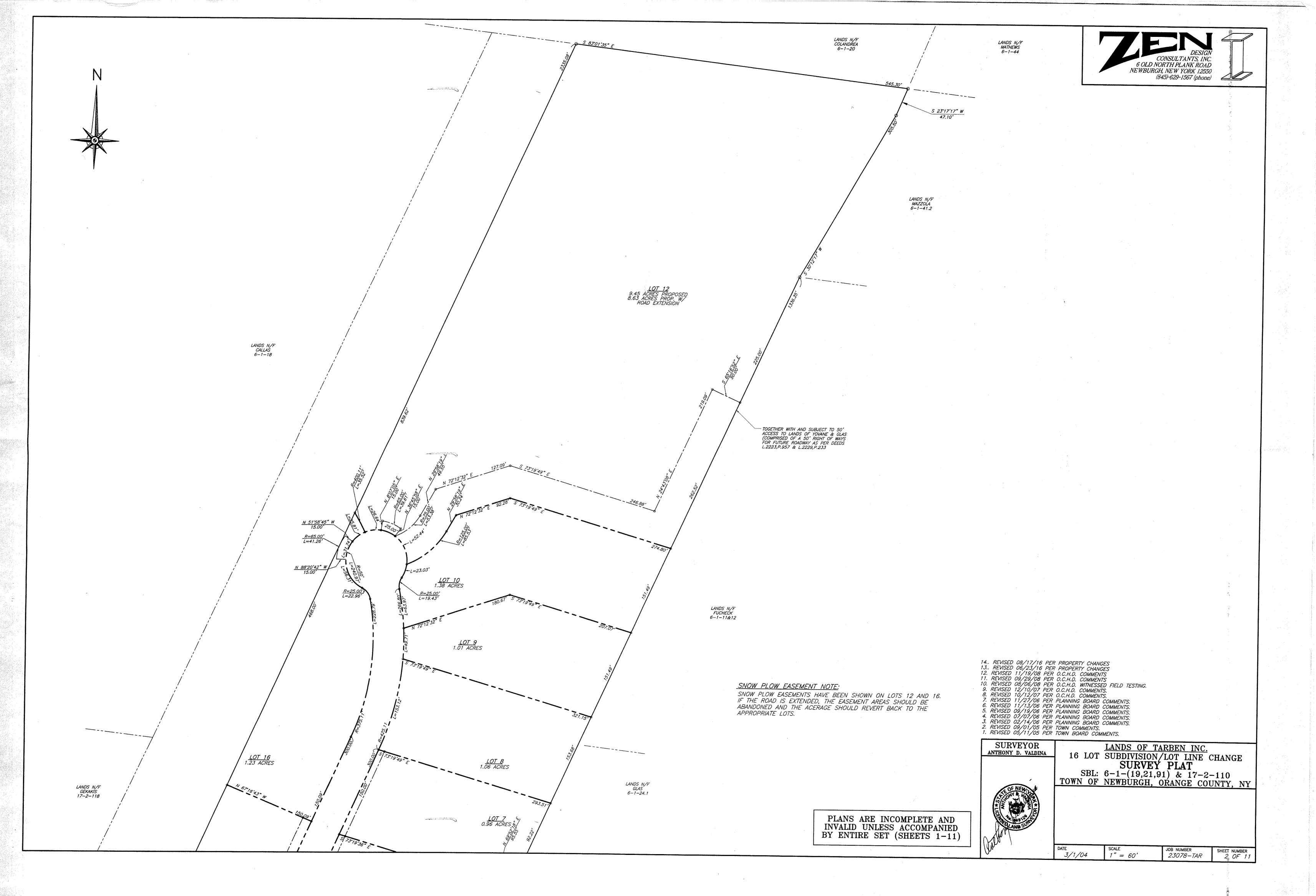
The adjoining lot has been combined to another lot from an adjoining subdivision.

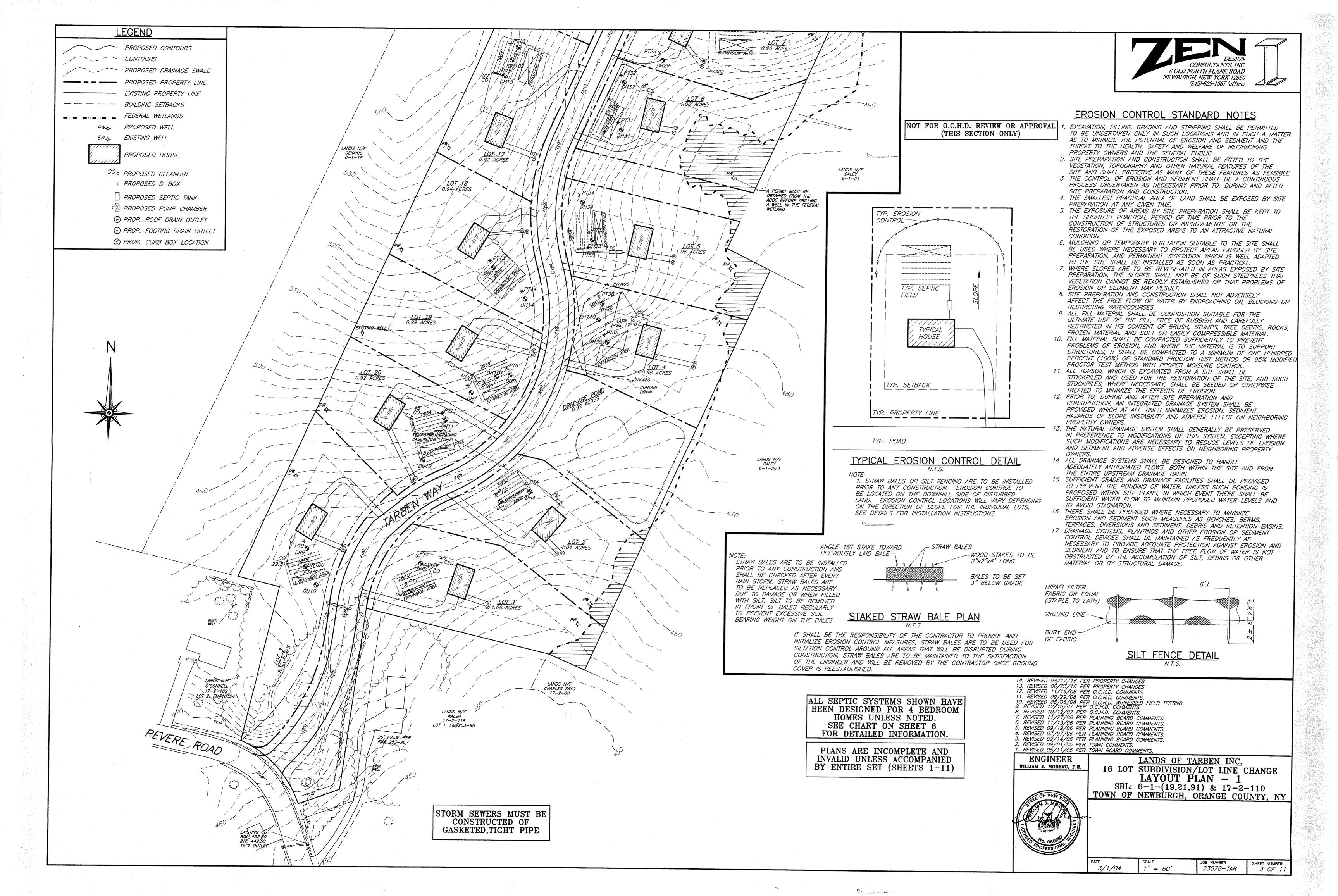
- 7. The grading plans do not depict the driveways. Driveways should be shown on the grading plans. Driveways have been added to the grading plan.
- 8. The plans should be updated to include as-built conditions for improvements within the roadway. Any changes that resulted during construction should be depicted during the plans.

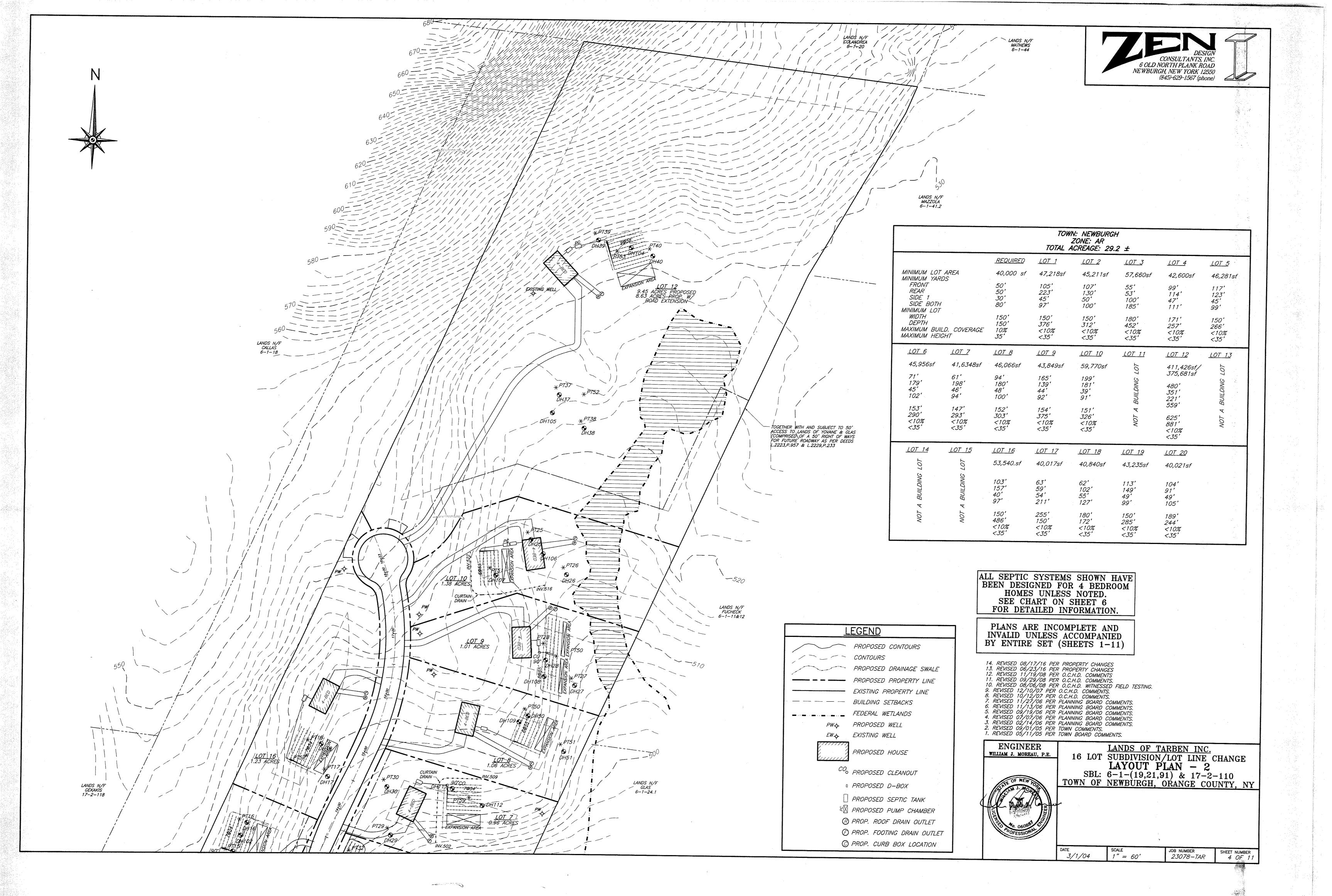
 There is a road construction bond in place with the town which has provisions for this road as-built to be completed. This will be submitted to the town prior to the road being

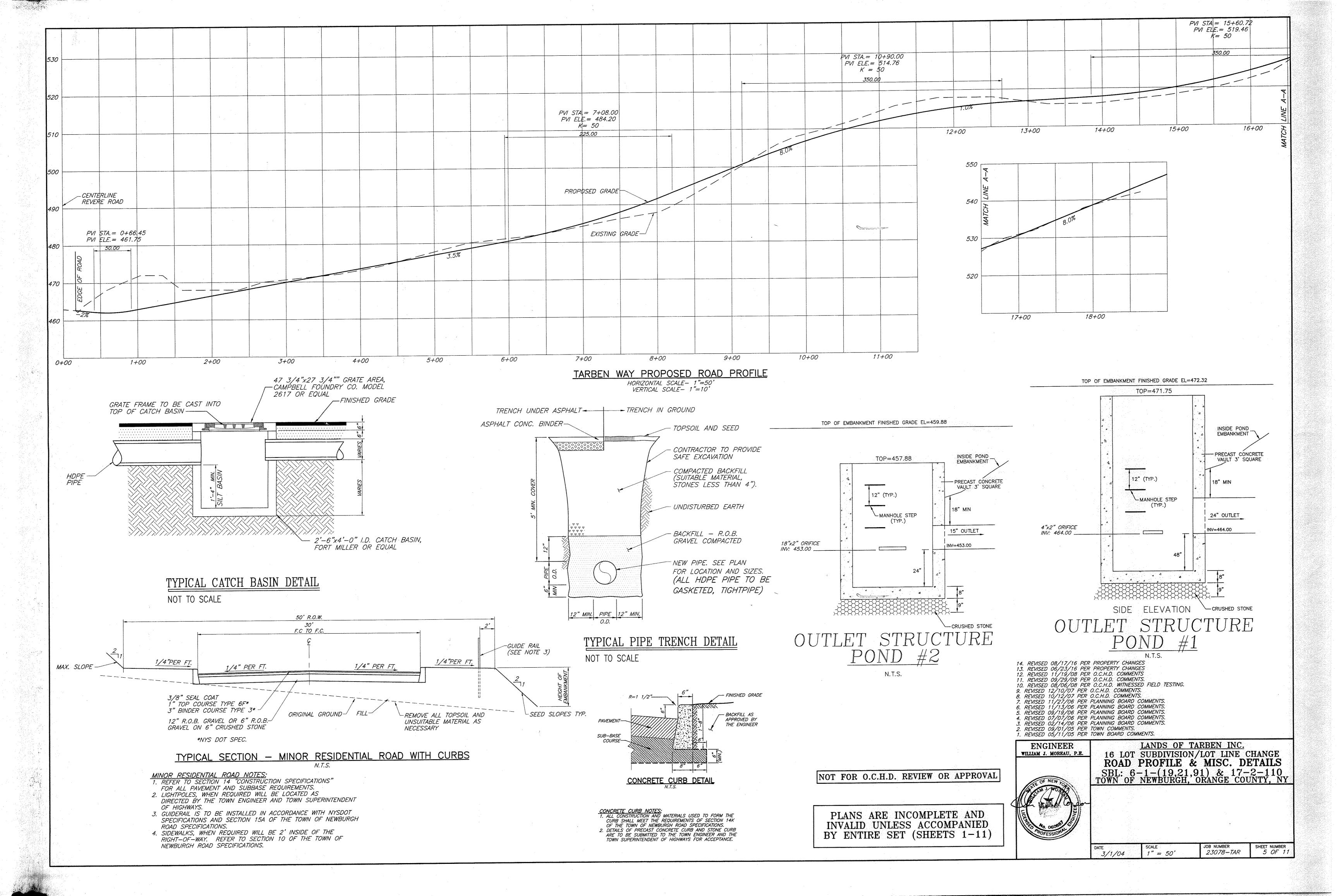
- 9. Engineered certrifications that the storm drainage piping has been constructed of gasketed sealed pipes per the approved County plans should be received.
 - Part of the road as-built submission is to certify that the road construction and drainage has been constructed according to the approved plans prior to roadway dedication.













SEPTIC SYSTEM DESIGN DATA:

	LOT #1	LOT #2	DRAINAGE POND LOT	LOT #4	LOT #5	LOT #6	LOT #7	LOT #8	LOT #9	LOT #10	LOT #11	LOT #12
	PT1 24" DEEP 11/22/04	PT3 24" DEEP 11/22/04 STABILIZED RATE— 06:32 MIN/INCH		PT35 24" DEEP 11/22/04 STABILIZED RATE-11:08 MIN/INCH	PT33 24" DEEP 11/22/04 STABILIZED RATE- 01:14 MIN/INCH	PT31 24" DEEP 11/22/04 STABILIZED RATE- 14:57 MIN/INCH	PT29 12" DEEP 11/22/04 STABILIZED RATE- 16:23 MIN/INCH	PT50 24" DEEP 11/22/04 STABILIZED RATE- 11:43 MIN/INCH	PT27 24" DEEP 11/22/04 STABILIZED RATE— 21:51 MIN/INCH	PT25 24" DEEP 11/23/04 STABILIZED RATE— 01:25 MIN/INCH		PT39 24" DEEP 11/23/04 STABILIZED RATE- 11:52 MIN/INCH
PERCOLATION	PT2 24" DEEP 11/22/04 STABILIZED RATE- 04:48 MIN/INCH	PT4 24" DEEP 11/22/04 STABILIZED RATE- 03:02 MIN/INCH	,	PT36 24" DEEP 11/22/04 STABILIZED RATE- 11:04 MIN/INCH	PT34 24" DEEP 11/22/04 STABILIZED RATE- 09:53 MIN/INCH	PT32 24" DEEP 11/22/04 STABILIZED RATE- 14:42 MIN/INCH	PT30 12" DEEP 11/22/04 STABILIZED RATE- 08:32 MIN/INCH	PT51 24" DEEP 11/22/04 STABILIZED RATE- 12:16 MIN/INCH	PT28 24" DEEP 11/22/04 STABILIZED RATE- 02:25 MIN/INCH	PT26 24" DEEP 11/23/04 STABILIZED RATE- 05:58 MIN/INCH	<u> </u>	PT40 24" DEEP 11/23/04 STABILIZED RATE- 07:23 MIN/INCH
DATA X		t · · ·			*PT58 24" DEEP 06/20/08 STABILIZED RATE- 07:10 MIN/INCH		*PT59 24" DEEP 06/20/08 STABILIZED RATE- 16:42 MIN/INCH		*PT50 24" DEEP 07/02/08 STABILIZED RATE- 4:47 MIN/INCH	*PT51 24" DEEP 06/20/08 STABILIZED RATE- 13:32 MIN/INCH		*PT53 24" DEEP 06/20/08 STABILIZED RATE- 42:01 MIN/INCH
	DH1 4'-0" DEEP 10/20/04 0"-7" DARK BROWN TOPSOIL 7"-32" CLAYISH LOAM	<u>DH3 4'-11" DEEP 10/20/04</u> 0"-10" DARK BROWN TOPSOIL 10"-59" GRAVELY LOAM	7	DH35 4'-0" DEEP 10/21/04 0"-3" TOPSOIL 3"-40" GRAVELY LOAM	DH33 4'-7" DEEP 10/21/04 0"-4 TOPSOIL 4"-55" GRAVELY LOAM	0"-4 TOPSOIL 4"-16" CLAY LOAM	DH29 2'-8" DEEP 10/21/04 0"-10" DARK BROWN TOPSOIL 10"-32" CLAY LOAM	DH50 5'-8" DEEP 10/21/04 0"-6" TOPSOIL 6"-26" CLAY LOAM	DH27 5'-5" DEEP 10/21/04 0"-3" TOPSOIL 3"-65" CLAYISH LOAM	0"-3" TOPSOIL 3"-28" CLAY LOAM		DH39 5'-4" DEEP 10/22/04 0"-6" TOPSOIL 6"-64" CLAY LOAM
	32"-48" SANDY LOAM MOTTLING @ 48"	DH4 5'-8" DEEP 10/20/04 0"-6" DARK BROWN TOPSOIL 6"-68" SANDY GRAVELY LOAM		40"-48" GRAY CLAY MOTTLING @40" DH36 5'-5" DEEP 10/21/04	DH34 4'-10" DEEP 10/21/04 0"-7" TOPSOIL 7'-58" GRAVELY LOAM	16"-61" GRAVELY LOAM <u>DH32 4'-5" DEEP 10/21/04</u> 0"-5" TOPSOIL	ROCK @32" <u>DH30 4'-0" DEEP 10/21/04</u> 0"-6" TOPSOIL	26"-68" GRAVELY LOAM <u>DH51 5'-1" DEEP 10/21/04</u> 0"-4" TOPSOIL	DH28 5'-3" DEEP 10/21/04 0"-7" TOPSOIL 7"-63" GRAVELY CLAY LOAM	0"-6" TOPSOIL	2	DH40 6'-0" DEEP 10/22/04 0"-3" TOPSOIL 3"-72" CLAY LOAM
DEEP PIT DATA 🛖	<u>DH2 4'-O" DEEP 10/20/04</u> O"-10" DARK BROWN TOPSOIL 10"-48" GRAVELY LOAM MOTTLING ⊕ 48"	U -UU SANDI SHAVEEI ESAM	5	0"-8" TOPSOIL 8"-56" GRAVELY CLAY LOAM 56"-65" CLAY LOAM W/ MOTTLING MOTTLING @56"	•	5'-53" GRAVELY CLAY LOAM	6"-48" CLAY LOAM *DH111 8'-8" DEEP 06/20/08 0"-3" TOPSOIL 3"-36" MOTTLED CLAY LOAM 36"-104" CLAY LOAM W/	4"-32" CLAY LOAM 32"-61" GRAVELY LOAM *DH109 7'-6" DEEP 06/19/08 0"-3" TOPSOIL	*DH108 7'-10" DEEP 06/19/08 0"-6" TOPSOIL 6"-94" CLAY LOAM W/ GRAVEL	6"-59" CLAY LOAM *DH106 7'-10" DEEP 06/19/08 0"-17" TOPSOIL 17"-41" MOTTLED CLAY 41"-94" SANDY CLAY LOAM		*DH104 7'-8" DEEP 06/19/08 0"-13" TOPSOIL 13"-38" CLAY LOAM 38"-72" SAND GRAVEL 72"-92" FINE SAND W/MOTTLING
			4	*DH110 7'-2" DEEP 06/19/08 0"-3" TOPSOIL 3"-86" GRAVELLY SANDY LOAM			RIPABLE SHALE *DH112 6'-6" DEEP 06/20/08 0"-3" TOPSOIL 3"-24" CLAY LOAM 24"-78" GRAVELLY CLAY LOAM	3"-90" SANDY GRAVELLY LOAM		MOTTLING ⊕ 17" *DH107 7'-8" DEEP 06/19/08 0"-12" TOPSOIL 12"-26" CLAY LOAM TRACE MOTT.		MOTTLING @ 72"
			2				BOULDERS & COBBLES THRU-OUT			26"-92" SANDY LOAM W/ GRAVEL	V	1.) NO OF BEDROOMS - 4(MAX)
	1.) NO OF BEDROOMS - 4(MAX) 2.) DAILY FLOW - 520 G.P.D. 3.) SEPTIC TANK CAPACITY -	1.) NO OF BEDROOMS — 4(MAX) 2.) DAILY FLOW — 520 G.P.D. 3.) SEPTIC TANK CAPACITY —	7	1.) NO OF BEDROOMS — 3(MAX) 2.) DAILY FLOW — 390 G.P.D. 3.) SEPTIC TANK CAPACITY —	1.) NO OF BEDROOMS - 4(MAX) 2.) DAILY FLOW - 520 G.P.D. 3.) SEPTIC TANK CAPACITY -	1.) NO OF BEDROOMS - 4(MAX) 2.) DAILY FLOW - 520 G.P.D. 3.) SEPTIC TANK CAPACITY -	1.) NO OF BEDROOMS 4(MAX) 2.) DAILY FLOW 520 G.P.D. 3.) SEPTIC TANK CAPACITY	1.) NO OF BEDROOMS - 4(MAX) 2.) DAILY FLOW - 520 G.P.D. 3.) SEPTIC TANK CAPACITY -	1.) NO OF BEDROOMS - 4(MAX) 2.) DAILY FLOW - 520 G.P.D. 3.) SEPTIC TANK CAPACITY -	1.) NO OF BEDROOMS - 4(MAX) 2.) DAILY FLOW - 520 G.P.D. 3.) SEPTIC TANK CAPACITY -		2.) DAILY FLOW — 520 G.P.D. 3.) SEPTIC TANK CAPACITY — 1,250 GAL.
DESIGN DATA	1,250 GAL. 4.) STABILIZED PERCOLATION RATE—	1,250 GAL. 4.) STABILIZED PERCOLATION RATE—	T	1,000 GAL. 4.) STABILIZED PERCOLATION RATE—	1,250 GAL. 4.) STABILIZED PERCOLATION RATE—	1,250 GAL. 4.) STABILIZED PERCOLATION RATE— 15 MIN/INCH	1,250 GAL. 4.) STABILIZED PERCOLATION RATE— 17 MIN/INCH	1,250 GAL. 4.) STABILIZED PERCOLATION RATE— 13 MIN/INCH	1,250 GAL. 4.) STABILIZED PERCOLATION RATE— 22 MIN/INCH	1,250 GAL. 4.) STABILIZED PERCOLATION RATE— 14 MIN/INCH		4.) STABILIZED PERCOLATION RATE— 43 MIN/INCH
	5 MIN/INCH 5.) ABSORPTION FIELD LENGTH— REQ'D (3BDRM)— 162 L.F. REQ'D (4BDRM)— 217 L.F.	7 MIN/INCH 5.) ABSORPTION FIELD LENGTH— REQ'D (3BDRM)— 195 L.F. REQ'D (4BDRM)— 260 L.F.	7	12 MIN/INCH 5.) ABSORPTION FIELD LENGTH— REQ'D (3BDRM)— 244 L.F. REQ'D (4BDRM)— N/A PROV'D— 5@ 50'= 250 L.F.	10 MIN/INCH 5.) ABSORPTION FIELD LENGTH— REQ'D (3BDRM)— 217L.F. REQ'D (4BDRM)— 290 L.F.	5.) ABSORPTION FIELD LENGTH— REQ'D (3BDRM)— 244 L.F. REQ'D (4BDRM)— 325 L.F.	5.) ABSORPTION FIELD LENGTH— REQ'D (3BDRM)— 279 L.F. REQ'D (4BDRM)— 372 L.F.	5.) ABSORPTION FIELD LENGTH— REQ'D (3BDRM)— 244 L.F. REQ'D (4BDRM)— 325 L.F.	5.) ABSORPTION FIELD LENGTH— REQ'D (3BDRM)— 325 L.F. REQ'D (4BDRM)— 434 L.F. PROV'D—8 @ 55"= 440 L.F.	5.) ABSORPTION FIELD LENGTH— REQ'D (3BDRM)— 244 L.F. REQ'D (4BDRM)— 325 L.F. PROV'D—6 @ 55'= 330 L.F.	2	5.) ABSORPTION FIELD LENGTH— REQ'D (3BDRM)— 390 L.F. REQ'D (4BDRM)— 520 L.F. PROV'D—9 @ 58'= 522 L.F.
	PROV'D-4 @ 55'= 220 L.F. 6) FILL REQUIRED- NONE	PROV'D−5 @ 52'= 260 L.F. 6) FILL REQUIRED− NONE 7) PUMP CHAMBER REQUIRED	į.	6) FILL REQUIRED— NONE 7) PUMP CHAMBER REQUIRED 8) CURTAIN DRAIN REQUIRED	PROV'D−5 @ 58'= 290L.F. 6) FILL REQUIRED— NONE 7) PUMP CHAMBER REQUIRED	PROV'D−6 @ 55'= 330 L.F. 6) FILL REQUIRED− NONE 7) PUMP CHAMBER REQUIRED	PROV'D−7 @ 54'= 378 L.F.	PROV'D-6 @ 55'= 330 L.F. 6) FILL REQUIRED- NONE	6) FILL REQUIRED— NONE	6) FILL REQUIRED— NONE 7) PUMP CHAMBER REQUIRED		6) FILL REQUIRED— NONE 7) PUMP CHAMBER REQUIRED
	LOT #13	LOT #14	LOT #15	LOT #16	LOT #17	LOT #18	LOT #19	LOT #20	LOT #3			
		:		PT17 30" DEEP 11/23/04 STABILIZED RATE- 14:51 MIN/INCH	PT15 24" DEEP 11/22/04 STABILIZED RATE- 17:34 MIN/INCH	PT13 24" DEEP 11/22/04 STABILIZED RATE- 12:32 MIN/INCH	PT7 24" DEEP 11/22/04 STABILIZED RATE- 01:37 MIN/INCH	PT11 24" DEEP 11/22/04 STABILIZED RATE- 02:11 MIN/INCH	PT9 24" DEEP 11/22/04 STABILIZED RATE- 15 MIN/INCH	* = WITNESSED BY ORANGE COUN		

PT14 24" DEEP 11/22/04

8"-34" CLAY LOAM

34"-64" GRAVELY LOAM

DH14 5'-1" DEEP 10/21/04 0"-6" DARK BROWN TOPSOIL

6"-61" GRAVELY CLAY LOAM

1.) NO OF BEDROOMS - 4(MAX)

1,250 GAL.

13 MIN/INCH

2.) DAILY FLOW - 520 G.P.D.

5.) ABSORPTION FIELD LENGTH-

6) FILL REQUIRED- NONE

REO'D (3BDRM)- 244 L.F.

REQ'D (4BDRM)- 325 L.F.

PROV'D-6 @ 55'= 330 L.F.

3.) SEPTIC TANK CAPACITY -

| STABILIZED RATE- 12:53 MIN/INCH | STABILIZED RATE- 01:57 MIN/INCH

SEPTIC SYSTEM GENERAL NOTES:

PERCOLATION

DATA X

DEEP PIT

DATA 🛖

DESIGN

- 1. ALL PORTIONS OF THE SEPTIC FIELD WILL BE A MINIMUM DISTANCE OF 200 FEET UP SLOPE AND 100 FEET DOWN SLOPE FROM ANY WELL. SEPTIC TANK TO BE LOCATED A MINIMUM DISTANCE OF 10 FEET FROM
- ANY BUILDING OR PROPERTY LINE.
 3. CELLAR DRAINS, ROOF DRAINS OR FOOTING DRAINS SHALL NOT BE DISCHARGED IN THE VICINITY OF ABSORPTION FIELD. NO SWIMMING POOLS, DRIVEWAYS, OR STRUCTURES THAT MAY COMPACT THE SOIL SHALL NOT BE CONSTRUCTED OVER ANY PORTION OF THE ABSORPTION FIELD.
- 5. NO TRENCHES TO BE INSTALLED IN WET SOIL. 6. RAKE SIDES AND BOTTOM OF TRENCH PRIOR TO PLACING GRAVEL IN ABSORPTION TRENCH.
- 7. GROUT ALL PIPE PENETRATIONS TO CONC. SEPTIC TANK & DISTRIBUTION BOX. 8. DISTRIBUTION LINE ARE TO BE CAPPED.
- 9. THE PERIMETER OF THE ABSORPTION FIELD SHOULD BE GRADED TO DIVERT SURFACE WATER. 10. ALL NEWLY DISTURBED AREAS SHALL BE IMMEDIATELY STABILIZED UPON
- CONSTRUCTION COMPLETION USING GRASS SEED & MULCH. 11. NO SEWAGE SYSTEM SHALL BE PLACED WITH IN 100' OF ANY WATER COURSE
- OR 50' OF ANY DRAINAGE DITCH. 12. ALL LAUNDRY AND KITCHEN WASTES SHALL BE DISCHARGED INTO SEWAGE SYSTEM.
- 13. BENDS SHALL BE USED WHEN ENTRANCE OR EXIT FROM SEPTIC TANK IS
- NOT APPROXIMATELY STRAIGHT. IF BENDS ARE USED AT POINTS OTHER THAN ENTRANCE OR EXIT POINTS, THEN A CLEANOUT IS REQUIRED. 14. THE DESIGN AND LOCATION OF THE SANITARY FACILITIES SHALL NOT BE
- CHANGED WITHOUT RESUBMISSION FOR APPROVAL 15. HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE ABSORPTION FIELDS EXCEPT DURING THE ACTUAL CONSTRUCTION. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE ABSORPTION FIELD AREA BEFORE. DURING, OR AFTER CONSTRUCTION. EXTREME CARE MUST BE TAKEN DURING THE ACTUAL CONSTRUCTION SO AS TO AVOID ANY UNDUE COMPACTION THAT COULD RESULT IN A
- DESIGN WAS BASED. 16. THIS SYSTEM WAS NOT DESIGNED TO ACCOMMODATE GARBAGE GRINDERS, JACUZZI TYPE SPA TUBS OVER 100 GALLONS, OR WATER CONDITIONERS. AS SUCH, THESE ITEMS SHALL NOT BE INSTALLED UNLESS THE SYSTEM

CHANGE OF THE ABSORPTION CAPACITY OF THE SOIL ON WHICH THE

- IS REDESIGNED TO ACCOUNT FOR THESE. 17. THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK (OR ANY PUMPING OR DOSING CHAMBER) TO THE HOUSE, ALLOWING
- SEPTIC GASES TO DISCHARGE THROUGH THE STACK VENT. 18. THE PURCHASER OF THIS LOT SHALL BE PROVIDED WITH A COPY OF THE APPROVED PLANS AND AN ACCURATE AS—BUILT DRAWING OF ANY EXISTING SANITARY FACILITIES. INCLUDING NYSDEC WELL COMPLETION REPORT. THE PURCHASER SHALL ALSO BE ADVISED OF ANY ROUTINE OR SPECIAL MAINTAINANCE PROCEDURES THAT MAY BE NECESSARY.
- (REFER TO PAGES 58-61 OF THE NYSDOH DESIGN HANDBOOK FOR RECOMMENDED ROUTINE OPERATION AND MAINTENANCE ITEMS).

 19. THE DESIGN ENGINEER WILL BE REQUIRED TO CERTIFY THE COMPLETED DISPOSAL FACILITY WITH AN AS-BUILT DRAWING SUBMITTED TO THE TOWN PRIOR TO CERTIFICATE OF OCCUPANCY BEING ISSUED.

- 20. SEPTIC TANKS SHOULD BE INSPECTED PERIODICALLY AND PUMPED
- EVERY 2-3 YEARS. 21. PUMP STATIONS/DOSING CHAMBERS SHOULD BE INSPECTED PERIODICALLY BY A PROPERLY TRAINED PERSON FOR PROPER OPERATION, INCLUDING HIGH WATER ALARMS, VENTING AND ANY OTHER PHYSICAL DAMAGE.
- THAT THEY ARE LEVEL AND OPERATING PROPERLY. 23. ALL WELLS AND SEPTIC SYSTEMS WITHIN 300' OF THE PROJECT HAVE BEEN LOCATED AND ARE SHOWN ON PLANS.
- 22. DISTRIBUTION BOXES SHOULD BE INSPECTED PERIODICALLY TO ASSURE

PT18 30" DEEP 11/23/04

*PT57 24" DEEP 06/19/08

STABILIZED RATE- 18:06 MÍN/INCH

STABILIZED RATE- 19:30 MIN/INCH

4"-62" GRAVELY CLAY LOAM

1.) NO OF BEDROOMS - 4(MAX)

4.) STABILIZED PERCOLATION RATE-

REQ'D (3BDRM)- 279 L.F.

REQ'D (4BDRM)- 372 L.F.

PROV'D-7 @ 54'= 378 L.F.

5.) ABSORPTION FIELD LENGTH-

6) FILL REQUIRED- NONE

1,250 GAL.

20 MIN/INCH

2.) DAILY FLOW - 520 G.P.D.

3.) SEPTIC TANK CAPACITY -

DH18 5'-4" DEEP 0"-6" TOPSOIL

6"-28" CLAY LOAM

28"-64" GRAVELY LOAM

10/21/04

6) FILL REQUIRED- NONE

PT16 24" DEEP 11/22/04

6"-31" CLAY LOAM

BEDROCK @ 60"

BEDROCK @ 64"

31"-60" GRAVELY LOAM

<u>DH16 5'-4" DEEP 10/21/04</u> 0"-5" DARK BROWN TOPSOIL 5"-30" CLAY LOAM 30"-64" SANDY GRAVELY LOAM

*DH102 8'-0" DEEP 06/19/08

12"-100" SILTY SAND W/ GRAVEL AND COBBLES

1.) NO OF BEDROOMS - 4(MAX)

5.) ABSORPTION FIELD LENGTH—

REQ'D (3BDRM)- 279 L.F

REQ'D (4BDRM)- 372 L.F.

PROV'D-7 @ 54'= 378 L.F.

1,250 GAL.

18 MIN/INCH

2.) DAILY FLOW - 520 G.P.D.

3.) SEPTIC TANK CAPACITY -

THE DESIGN, CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND GENERALLY ACCEPTED STANDARDS IN EFFECT AT THE TIME OF CONSTRUCTION WHICH INCLUDE:

4.) STABILIZED PERCOLATION RATE- 4.) STABILIZED PERCOLATION RATE-

"APPENDIX 75-A, WASTE TREATMENT - INDIVIDUAL HOUSEHOLD SYSTEMS, NEW YORK STATE SANITARY CODE." "WASTE TREATMENT HANDBOOK, INDIVIDUAL HOUSEHOLD SYSTEMS, NEW YORK STATE DEPARTMENT OF HEALTH." "RURAL WATER SUPPLY, NEW YORK STATE DEPARTMENT OF HEALTH." "PLANNING THE SUBDIVISION AS PART OF THE TOTAL ENVIRONMENT, NEW YORK STATE DEPARTMENT OF HEALTH."

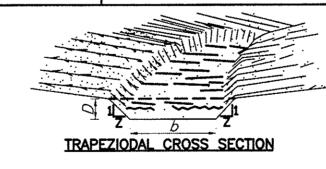
"THIS PLAN IS APPROVED AS MEETING THE APPROPRIATE AND APPLIED TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES FOR ARRANGEMENT OF SEWAGE DISPOSAL AND TREATMENT AND WATER SUPPLY FACILITIES.

ALL WELLS AND S.D.S. EXISTING OR APPROVED WITHIN 200' OF THE PROPOSED WELLS AND S.D.S. ARE SHOWN ON THIS PLAN ALONG WITH ANY OTHER ENVIRONMENTAL HAZARDS IN THE AREA THAT MAY AFFECT THE DESIGN AND FUNCTIONAL ABILITY OF THE S.D.S. AND WELL. IT SHALL BE DEMONSTRATED BY THE CONTRACTOR TO THE CERTIFYING ENGINEER THAT THE SEPTIC TANK IS SEALED, WATER TIGHT AND ACCEPTABLE FOR USE. THIS SHALL REQUIRE, AS A MINIMUM, THE FILLING OF THE TANK WITH WATER TO OBSERVE IF IT IS IN FACT SEALED, WATERTIGHT AND ACCEPTABLE FOR USE. ALL PROPOSED WELLS AND SERVICE LINES ON THIS PLAN ARE ACCESSIBLE FOR

INSTALLATION AND PLACEMENT. TRENCH BOTTOMS TO BE SET LEVEL AND PARALLEL TO EXISTING CONTOURS.

COUNTY CERTIFICATION:

"THE PROPOSED SEWAGE DISPOSAL SYSTEM AND WATER SUPPLY SYSTEM SHOWN ARE DESIGNED IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS ESTABLISHED BY THE NEW YORK STATE DEPARTMENT OF HEALTH AND THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION. THE DESIGN IS BASED UPON THE ACTUAL SOIL AND SITE CONDITIONS FOUND UPON THE LOT AT THE DESIGN LOCATION AT THE TIME OF DESIGN."



PT12 24" DEEP

<u>DH11 5'-0" DEEP</u> 0"-6" TOPSOIL

DH12 5'-5" DEEP 0"-8" TOPSOIL

6"-32" CLAY LOAM

32"-60" SANDY LOAM

STABILIZED RATE- 06:20 MIN/INCH

*PT62 24" DEEP 06/20/08 STABILIZED RATE— 16:23 MIN/INCH

8"-40" CLAY LOAM 40"-65" GRAVELY CLAY LOAM

1.) NO OF BEDROOMS - 4(MAX)

2.) DAILY FLOW - 520 G.P.D.

3.) SEPTIC TANK CAPACITY -

4.) STABILIZED PERCOLATION RATE-

5.) ABSORPTION FIELD LENGTH-

6) FILL REQUIRED- NONE

REQ'D (3BDRM)- 279 L.F.

REQ'D (4BDRM)- 372 L.F.

PROV'D-7 @ 54'= 378 L.F.

1,250 GAL.

17 MIN/INCH

PT8 24" DEEP 11/22/04

STABILIZED RATE- 08:28 MIN/INCH

*PT61 24" DEEP 06/20/08 STABILIZED RATE- 05:10 MIN/INCH

DH7 4'-4" DEEP 10/20/04 0"-6" DARK BROWN TOPSOIL

28"-52" SANDY GRAVELY LOAM

<u>DH8 4'-0" DEEP 10/20/04</u> 0"-7" DARK BROWN TOPSOIL

10"-84" SANDY/ GRAVELLY LOAM

84"-96" FINE SAND W/ GRAVEL

1.) NO OF BEDROOMS - 4(MAX)

4.) STABILIZED PERCOLATION RATE-

REQ'D (3BDRM)- 217 L.F.

REQ'D (4BDRM)- 290 L.F.

PROV'D-5 @ 58'= 290 L.F.

5.) ABSORPTION FIELD LENGTH-

6) FILL REQUIRED- NONE

1,250 GAL.

8 MIN/INCH

2.) DAILY FLOW - 520 G.P.D.

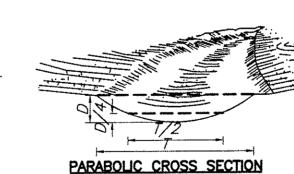
3.) SEPTIC TANK CAPACITY -

6"-28" CLAYISH LOAM

7"-48" CLAYISH LOAM

MOTTLING @ 48"

W/ STONE COBBLES



STABILIZED RATE- 7 MIN/INCH

<u>DH9 5'-3" DEEP 10/21/04</u> 0"-10" DARK BROWN TOPSOIL

DH10 4'-4" DEEP 10/21/04 0"-12" DARK BROWN TOPSOIL

14"-96" SANDY CLAY LOAM W/

MOTTLING @72", BOULDER @ 36

1.) NO OF BEDROOMS - 4(MAX)

4.) STABILIZED PERCOLATION RATE-

S.) ABSORPTION FIELD LENGTH-

PROV'D-6 @ 55'= 330 L.F.

6) FILL REQUIRED— NONE

REQ'D (3BDRM)- 244 L.F.

REQ'D (4BDRM)- 325 L.F.

1,250 GAL.

15 MIN/INCH

2.) DAILY FLOW — 520 G.P.D.

3.) SEPTIC TANK CAPACITY -

SMALL STONES & COBBLES

10"-63" CLAY LOAM

12"-52" CLAY LOAM

BEDROCK @ 52"

GRASS-LINED SWALE N.T.S.

CONSTRUCTION SPECIFICATIONS

- 1. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE WATERWAY.
- 2. THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW. 3. FILLS SHALL BE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT
- WOULD CAUSE DAMAGE IN THE COMPLETE WATERWAY. 4. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE WATERWAY.
- 5. STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE STANDARD
- AND SPECIFICATIONS FOR VEGETATIVE PRACTICES. A. FOR DESIGN VELOCITIES OF LESS THAN 3.5 FT. PER. SEC., SEEDING AND MULCHING MAY BE USED FOR THE ESTABLISHMENT OF THE VEGETATION. IT IS RECOMMENDED THAT, WHEN CONDITIONS PERMIT, TEMPORARY WATERWAYS OR OTHER MEANS SHOULD BE USED TO PREVENT WATER FROM ENTERING THE WATERWAY DURING THE ESTABLISHMENT OF THE VEGETATION.
- B. FOR DESIGN VELOCITIES OF MORE THAN 3.5 FT. PER. SEC., THE WATERWAY SHALL BE STABILIZED WITH SOD, WITH SEEDING PROTECTED BY JUTE OR EXCELSIOR MATTING OR WITH SEEDING AND MULCHING INCLUDING TEMPORARY DIVERSION OF THE WATER UNTIL THE VEGETATION IS ESTABLISHED.
- C. STRUCTURAL VEGETATIVE PROTECTION SUBSURFACE DRAIN FOR BASE FLOW SHALL BE CONSTRUCTED AS SHOWN ON THE STANDARD DRAWING AND AS SPECIFIED IN THE STANDARD AND SPECIFICATIONS FOR SUBSURFACE DRAIN.

REQUIRED SEPARATION DISTANCES FROM WASTEWATER SYSTEM COMPONENTS (AS SHOWN IN NYS DEPARTMENT OF HEALTH DESIGN HANDBOOK FOR INDIVIDUAL RESIDENTIAL WASTEWATER TREATMENT SYSTEMS, ed. 1996)								
SYSTEM_ COMPONENTS	<u>WELL OR</u>	STREAM, LAKE, WATERCOURSE OR WETLAND	DWELLING	PROPERTY LINE	DRAINAGE DITCH			
HOUSE SEWER	50' (25' FOR CAST OR PVC W/ O-RING)	25'	3'	10'				
(WATERTIGHT JOINTS) SEPTIC TANK	50'	50'	10'	10'	10'			
EFFLUENT LINE TO DISTRIBUTION BOX	50'	<i>50'</i>	10'	10'	20'			
DISTRIBUTION BOX	100'	100'	20'	10'	50'			
ABSORPTION FIELD	100'	100'	20'	10'	50'			
SEEPAGE PIT	150'	100'	20'	10'	50'			
DRY WELL (ROOF AND FOOTING)	50'	25'	20'	10'	10'			
RAISED OR MOUND SYSTEM	100'	100*	20'	10'	50'			
INTERMITTENT SAND FILTER	100'	100'	20'	10'	20'			
EVAPOTRANSPIRATION— ABSORPTION SYSTEM	100'	50'	20'	10'	50'			
COMPOSTER	50'	50'	20'	10'	10'			
SANITARY PRIVY PIT	100'	50'	20'	10'	20'			
PRIVY, WATERTIGHT VAULT	50'	50'	20'	10'	10'			

PLANS ARE INCOMPLETE AND INVALID UNLESS ACCOMPANIED BY ENTIRE SET (SHEETS 1-11)

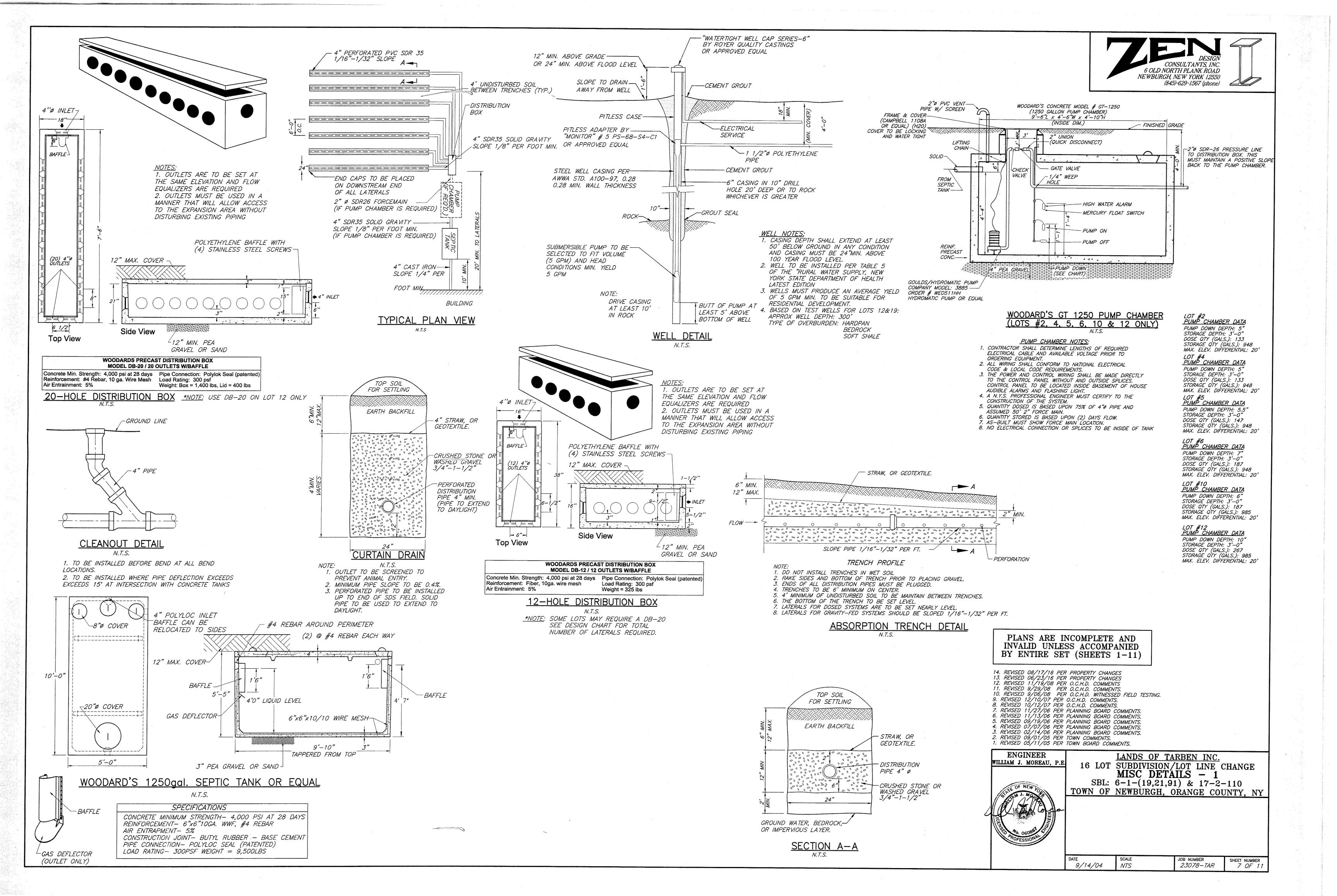
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14.	REVIS	SED	08/	17/1	6 PER	R PRO	PERT	Y CI	ЧАМ	GES			
<i>13</i> .	REVI:	SED	06/	23/1	6 PEI	R PRO	PERT	Y CI	YAN	GES			
						7 O.C.							
11.	REVI.	SED	09/	29/0	8 PER	7 O.C.	H.D.	COM	MEN	VTS.			
10.	REVI.	SED	08/	06/0	B PER	? O.C.	H.D.	WITN	VESS	ED	FIELL	7.	ESTING
9.	REVISI	ED	12/1	0/07	PER	O.C.H	D. C	OMN	1ENT	<i>'S.</i>			
8.	REVISI	ED	16/1	2/07	PER	O.C.H	D. C	OMN	1EN7	TS.			
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WILLIAM J. MOREAU, P.E.

LANDS OF TARBEN INC. 16 LOT SUBDIVISION/LOT LINE CHANGE SEPTIC TESTS RESULTS SBL: 6-1-(19,21,91) & 17-2-110 TOWN OF NEWBURGH, ORANGE COUNTY, NY



DATE	SCALE	JOB NUMBER 23078—TAR	SHEET NUMBER
9/14/04	NTS	23070-TAK	0 01 11

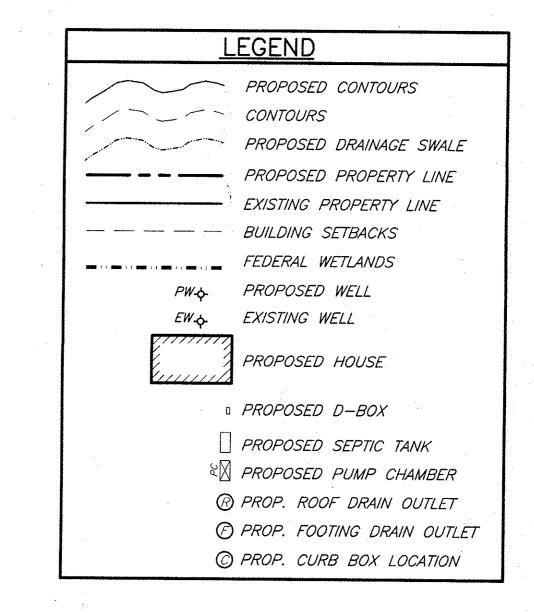




CLEARING NOTES:

1. THE CLEARING LIMIT SHALL BE SURVEYED AND EROSION CONTROL FENCING AND TREE FENCING SHALL BE INSTALLED BEFORE THE START OF CONSTRUCTION. 2. ADDITIONAL LANDSCAPE NOTES ARE LOCATED ON THE LANDSCAPE PLAN PAGES.

CATCH BASIN #	RIM ELEV.	INV. IN	FROM	INV. IN	FROM	INV. OUT	OUT TO	PIPE LENGTH, SIZE & SLOPE
CB7	504.00	500.00	CB5			500.00	CB8	22 LF-30"ø@2.0%
CB8	504.00	499.56	CB7			499.56	CB10	230 LF-24"ø@7.5%
CB9	486.25					482.69	CB10	22 LF-15"ø@2.0%
CB10	486.25	482.25	CB8	482.25	CB9	473.34	ES(PD1)	97 LF-24"Ø@1.0%
		473.34	CB12		·			
ES						472.37		
CB11	478.13					474.57	CB12	22 LF-18"ø@2.0%
CB12	478.13	474.13	CB11			474.13	CB10	158 LF-18"Ø@0.5%
CB13	469.44					466.44	CB14	22 LF-18"ø@2.0%
CB14	469.44	466:00	CB13			466.00	CB16	246 LF-18"ø@3.1%
CB15	461.25					458.81	CB16	22 LF-18"ø@2.0%
CB16	461.25	458.37	CB14	458.37	CB15	457.77		30 LF-24"ø@2.0%
ES						457.77	,,,	



14. REVISED 08/17/16 PER PROPERTY CHANGES
13. REVISED 06/23/16 PER PROPERTY CHANGES
12. REVISED 11/19/08 PER O.C.H.D. COMMENTS
11. REVISED 09/29/08 PER O.C.H.D. COMMENTS.
10. REVISED 08/06/08 PER O.C.H.D. WITNESSED FIELD TESTING.
9. REVISED 12/10/07 PER O.C.H.D. COMMENTS.
8. REVISED 10/12/07 PER O.C.H.D. COMMENTS.
7. REVISED 11/27/06 PER PLANNING BOARD COMMENTS.
6. REVISED 11/13/06 PER PLANNING BOARD COMMENTS.
5. REVISED 09/19/06 PER PLANNING BOARD COMMENTS.
4. REVISED 07/07/06 PER PLANNING BOARD COMMENTS.
3. REVISED 02/14/06 PER PLANNING BOARD COMMENTS.
2. REVISED 09/01/05 PER TOWN COMMENTS.
1. REVISED 05/11/05 PER TOWN BOARD COMMENTS.

ENGINEER WILLIAM J. MOREAU, P.E.

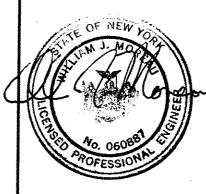
LANDS OF TARBEN INC.

16 LOT SUBDIVISION/LOT LINE CHANGE

GRADING & DRAINAGE PLAN- 1

SBL: 6-1-(19,21,91) & 17-2-110

TOWN OF NEWBURGH, ORANGE COUNTY, NY



DATE	SCALE	JOB NUMBER	SHEET NUMBER
3/1/04	1" = 60'	23078-TAR	8 of 11



