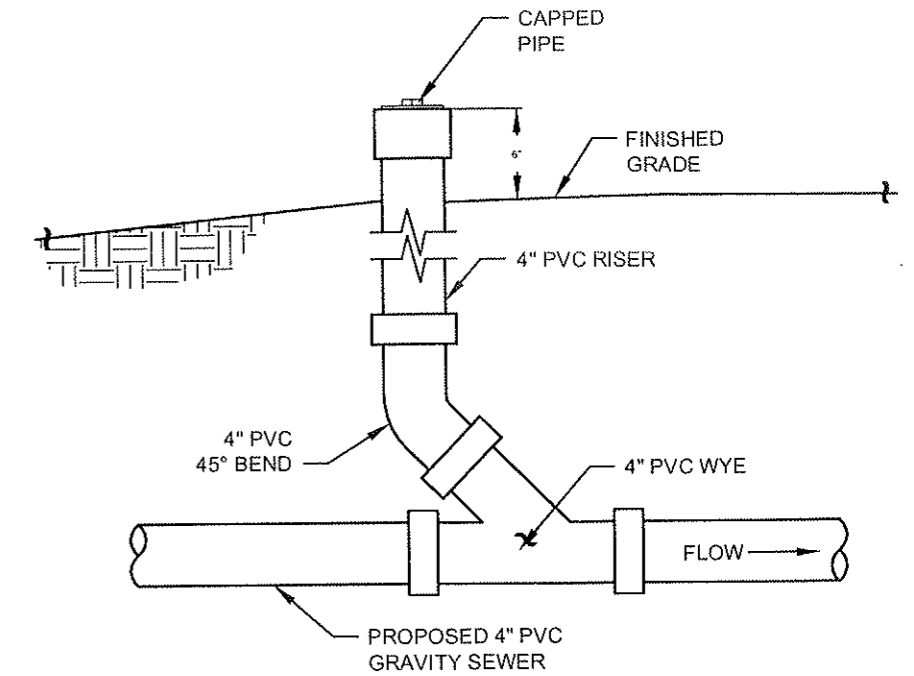


PERCOLATION TEST RESULTS

TEST HOLE #	TEST HOLE DEPTH	TEST HOLE DIA	TIME	PERCOLATION TEST RUNS (TIME FOR 1" DROP IN WATER LEVEL - STOPWATCH USED)					STABLE RATE
11/05/12 P11	18"	10"	FINISH	00:04:24	00:05:28	00:06:23	00:06:33		7 MIN
			START	00:00:00	00:00:00	00:00:00	00:00:00		
			TIME	00:04:24	00:05:28	00:06:23	00:06:33		
11/05/12 P12	18"	10"	FINISH	00:17:30	00:20:01	00:20:55			21 MIN
			START	00:00:00	00:00:00	00:00:00			
			TIME	00:17:30	00:20:01	00:20:55			



TYPICAL CLEANOUT

SCALE: 1" = 1'-0"

DEEP SOILS TEST RESULTS

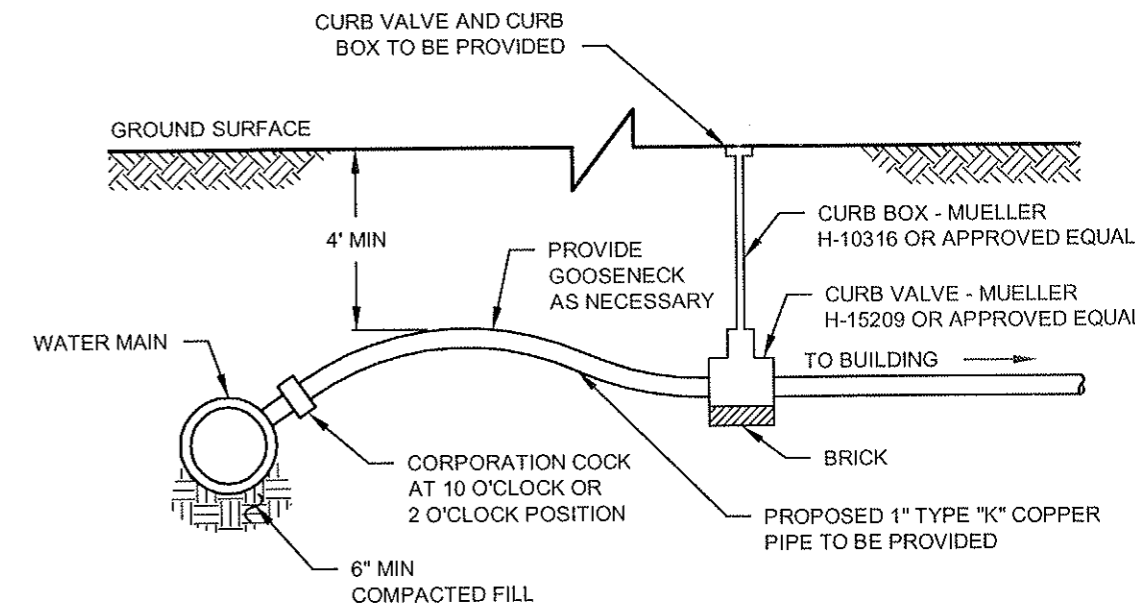
TEST PITS CONDUCTED ON 11/27/12

TEST HOLE #	DATE	DEPTH	DESCRIPTION
TP-1	11/27/12	0"-8" 8"-72"	TOP SOIL LIGHT GRAY CLAY SANDY SILTY LOAM W/COBBLE GROUNDWATER @ 6', MOTTLING @ 5', NO BEDROCK
TP-2	11/27/12	00"-24" 24"-78"	TOP SOIL TAN SANDY CLAY LOAM W/ COBBLE GROUNDWATER @ 6', NO MOTTLING, NO BEDROCK

ELJEN SYSTEM DESIGN SCHEDULE

STABILIZE PERC RATE (min)	PROPOSED BEDROOMS	FLOW RATE (GPD)	APPLICATION RATE (GPD/Sq. ft.)	REQUIRED AREA (Sq. ft.)	REQUIRED ABSORPTION FIELD LENGTH (ft)	PROPOSED ABSORPTION FIELD LENGTH (ft)
21	3	330 *	0.60	550	92	4 @ 24 = 96

*NOTE: 440 GPD = 110 GPD / BEDROOM



WATER SERVICE CONNECTION

SCALE: NTS

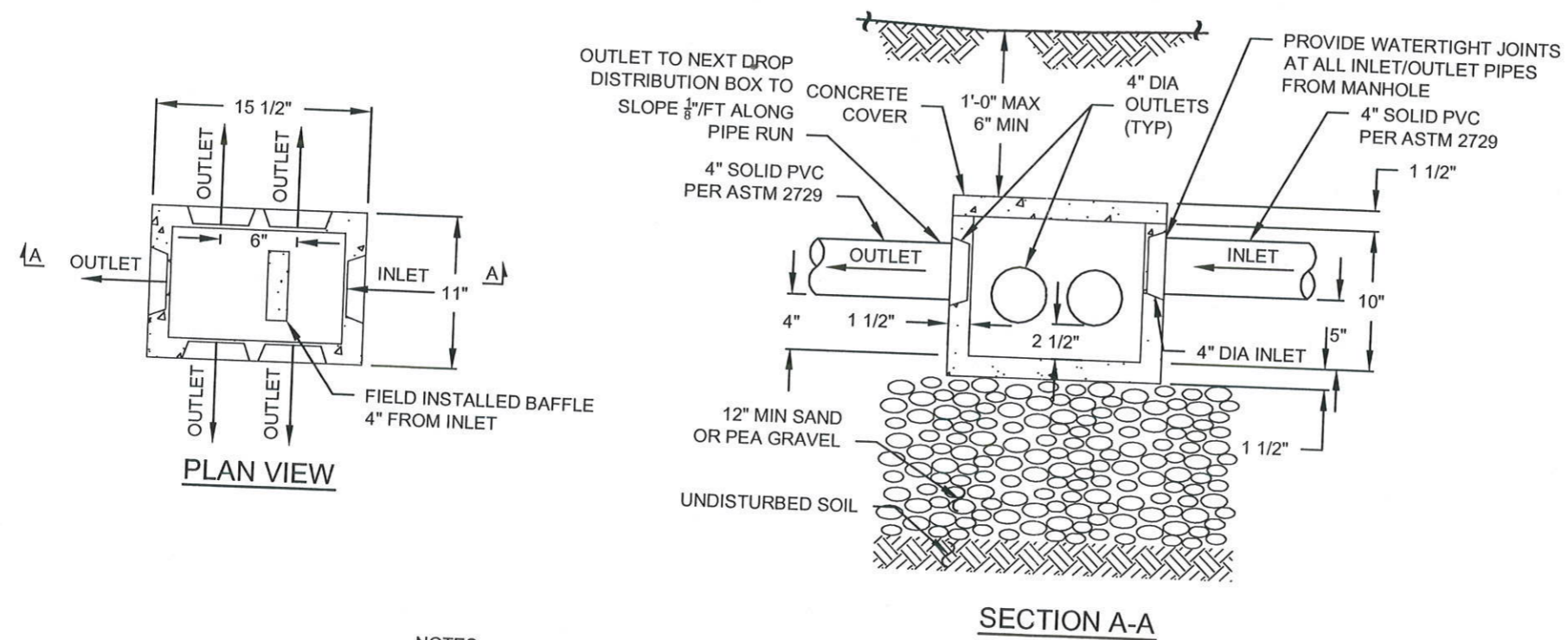
- CONCRETE - 4,000 PSI AT 28 DAYS
- REINFORCEMENT - 6" x 6" x 10 GA WIRE MESH
- SECTIONS TO BE SEALED WITH BUTYL RUBBER BASE CEMENT

1000 GAL SEPTIC TANK

SCALE: 3/8" = 1'-0"

DRAWING STATUS		ISSUE DATE:	
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR		12/03/12	
		SHEET NUMBER	
<input checked="" type="checkbox"/> CONCEPT APPROVAL	2 OF 2		
<input type="checkbox"/> PLANNING BOARD APPROVAL	N/A OF N/A		
<input type="checkbox"/> OCDOH REALTY SUBDIVISION APPROVAL	N/A OF N/A		
<input type="checkbox"/> OCDOH WATERMAIN EXTENSION APPROVAL	N/A OF N/A		
<input type="checkbox"/> NYSDEC APPROVAL	N/A OF N/A		
<input type="checkbox"/> NYS DOT APPROVAL	N/A OF N/A		
<input type="checkbox"/> OTHER	N/A OF N/A		
<input type="checkbox"/> FOR BID	N/A OF N/A		
<input type="checkbox"/> FOR CONSTRUCTION	N/A OF N/A		

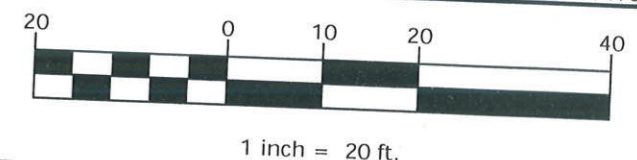
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ROSS WINGLOVITZ, P.E.
NEW YORK LICENSE # 071701



- CLEAN BACKFILL
- PERFORATED PIPE
- EO-TEXTILE
- LJEN MODULE
- CONCRETE SAND

- NOTES:
- DROP BOX AS MANUFACTURED BY WOODARD'S CONCRETE PRODUCTS, INC. CATALOG No. DB-6DB OR APPROVED EQUAL
 - MINIMUM CONCRETE STRENGTH 4,000 PSI AT 28 DAYS
 - CONCRETE TO BE FIBER REINFORCED PER MANUFACTURER'S SPECIFICATION
 - SEAL ALL JOINTS AT INLET/OUTLET PIPES ASPHALTIC MATERIAL OR EQUIVALENT
 - PROVIDE SPEED LEVELERS AT ALL DISTRIBUTION BOX OUTLETS
 - UNUSED OUTLETS TO REMAIN PLUGGED

6 HOLE DROP DISTRIBUTION BOX

SCALE: 1" = 1'-0"

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DETAILS

JOHN K. JOHN
LAURIE LANE
TOWN OF NEWBURGH
ORANGE COUNTY, NEW YORK

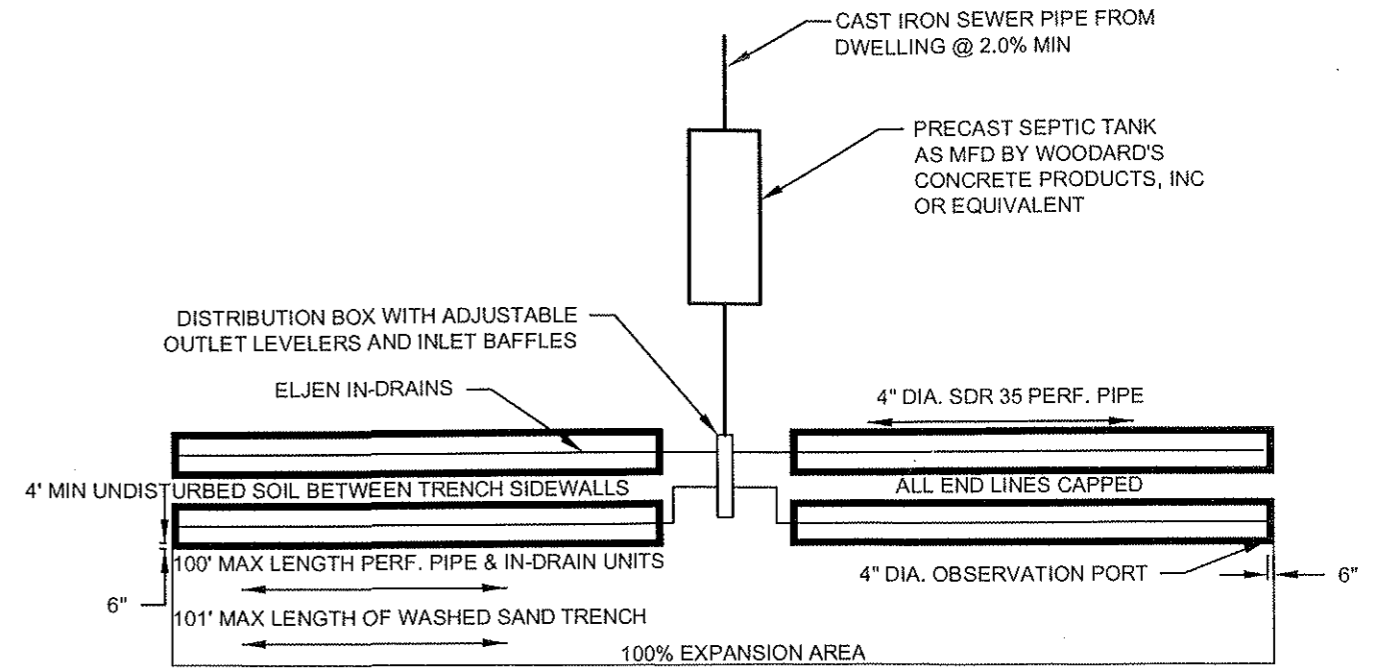
JOB #:	1027.01	DRAWN BY:	MAL
DATE:		SCALE:	

ABSORPTION FIELD NOTES:

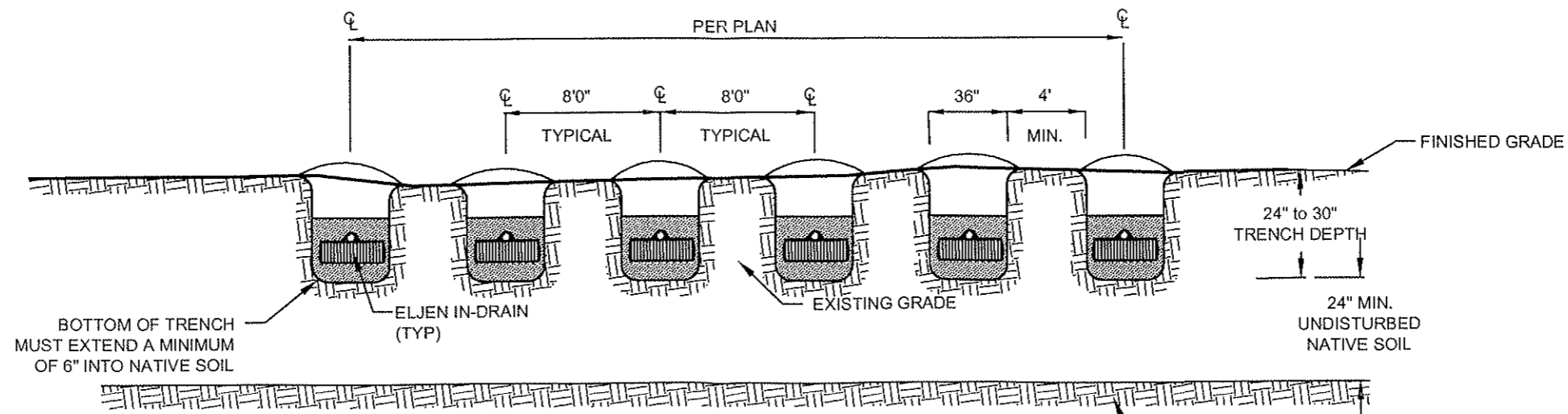
1. SEPTIC TANK TO BE LOCATED A MINIMUM DISTANCE OF 10 FEET FROM THE HOUSE.
2. THERE SHALL BE NO REGRADING, EXCEPT AS SHOWN ON THE APPROVED PLANS, IN THE AREA OF THE ABSORPTION FIELDS.
3. GARBAGE GRINDERS JACUZZI TYPE SPA TUBS OVER 100 GALLONS ARE NOT PERMITTED WITHOUT THE SYSTEM BEING REDESIGNED AND REAPPROVED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH.
4. CELLAR DRAINS, ROOF DRAINS OR FOOTING DRAINS SHALL NOT BE DISCHARGED IN THE VICINITY OF THE TILE FIELDS OR WELLS.
5. SWIMMING POOLS, DRIVEWAYS AND/OR STRUCTURES THAT MAY COMPACT THE SOIL ARE NOT TO BE CONSTRUCTED OVER TILE FIELDS.
6. ASPHALTIC SEALS SHALL BE MAINTAINED BETWEEN THE SEPTIC TANK, AND ALL PIPES AND COVERS.
7. NO TRENCHES TO BE INSTALLED IN WET SOIL.
8. RAKE SIDES AND BOTTOM OF TRENCH PRIOR TO PLACING GRAVEL IN ABSORPTION TRENCH.
9. GROUT ALL PIPE PENETRATIONS INTO AND OUT OF ANY DISTRIBUTION OR DROP BOX.
10. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH IN THE PUBLICATION "INDIVIDUAL RESIDENTIAL WASTEWATER TREATMENT SYSTEMS, DESIGN HANDBOOK", LATEST EDITION, AND APPENDIX 75-A OF THE NEW YORK STATE DEPARTMENT OF HEALTH.
11. ABSORPTION TRENCH PIPE TO BE CAPPED AT END.
12. ABSORPTION SYSTEM TO BE LOCATED A MINIMUM DISTANCE OF 20 FEET FROM ANY DWELLING UNIT.
13. SEPTIC TANK JOINTS MUST BE SEALED AND TESTED FOR WATERTIGHTNESS.
14. PROVIDE 30" OF SOLID PIPE PRIOR TO START OF ELJEN SYSTEM AND BACKFILL WITH NATIVE MATERIAL.
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 TO AS TO AVOID ANY UNDUE COMPACTION THAT COULD RESULT IN A CHANGE OF ABSORPTION CAPACITY OF THE SOIL ON WHICH THE DESIGN WAS BASED.

CONCRETE SAND SPEC

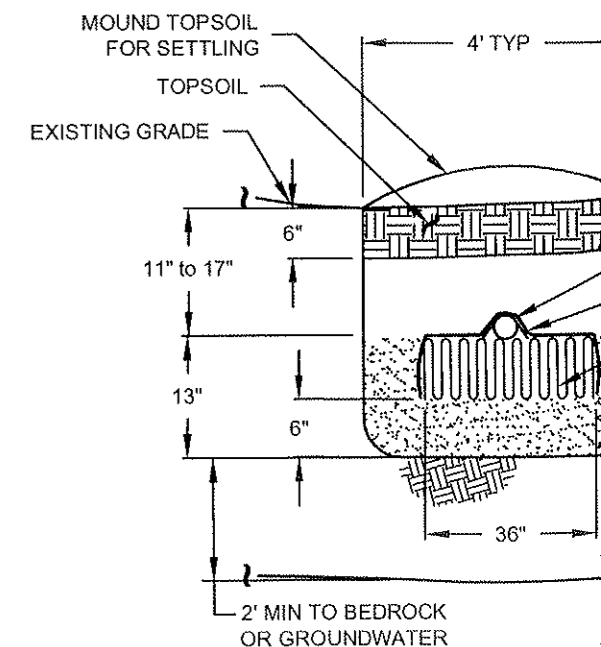
SIEVE SIZE	PERCENT PASSING
3/8"	100%
No. 4	95%-100%
No. 8	80%-100%
No. 16	50%-85%
No. 30	25%-60%
No. 50	5%-30%
No. 100	0-10%
No. 200	0-5%



**PLAN VIEW
ELJEN IN-DRAIN SYSTEM**



**A-A - TILE FIELD
SHALLOW ABSORPTION TRENCH
WITH ELJEN SYSTEM**

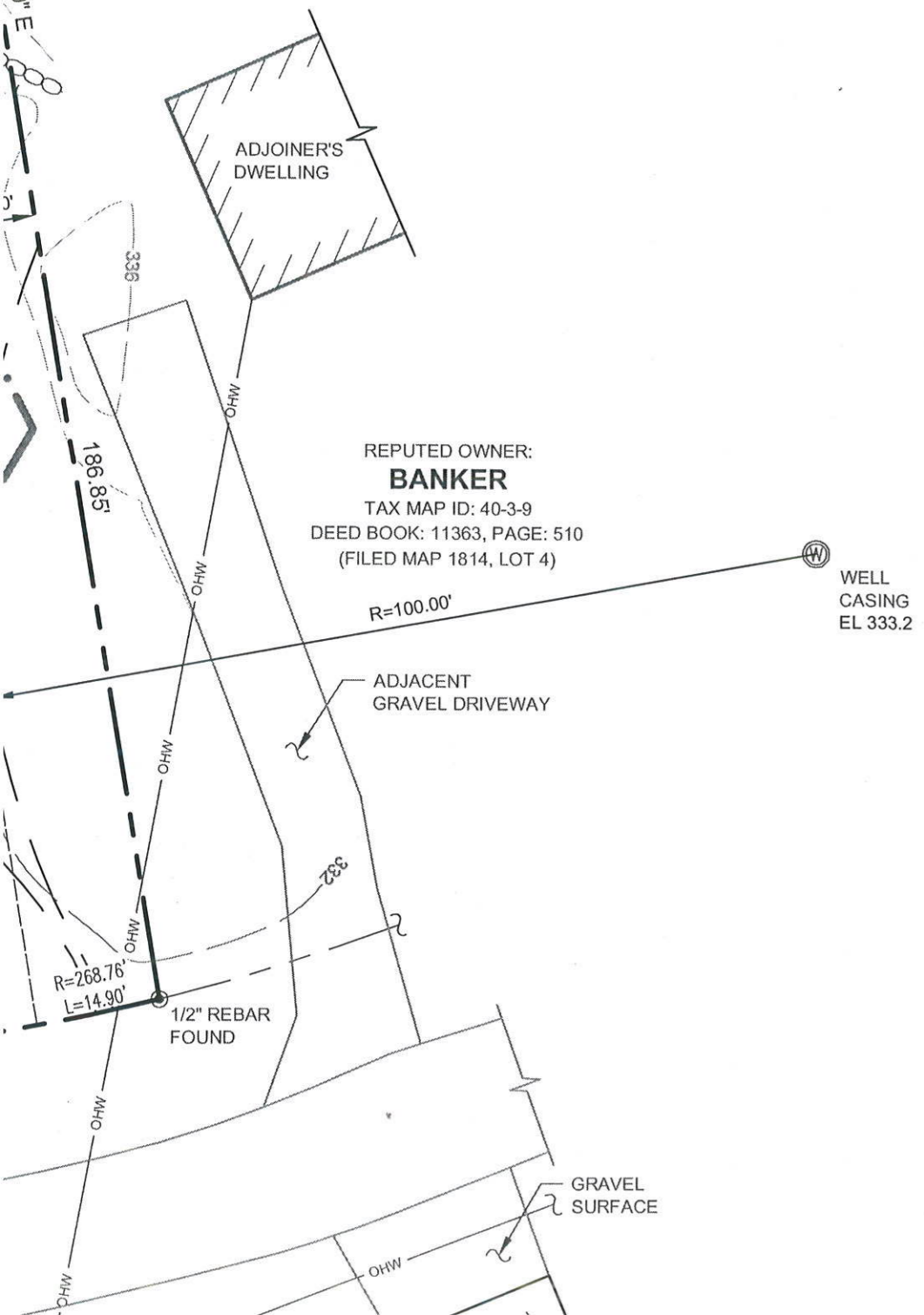


TYPICAL ELJEN TRN

15' WIDE DRAINAGE EASEMENT (TO BE RELOCATED)

REPUTED SEPTIC AREA

0° 20' 00" E



REPUTED OWNER:
BANKER
TAX MAP ID: 40-3-9
DEED BOOK: 11363, PAGE: 510
(FILED MAP 1814, LOT 4)

	MAJOR CONTOUR
	MINOR CONTOUR
	WATER MAIN
	SILT FENCE
	LIMIT OF TREE CLEARING
	PROPERTY LINE
	ADJOINING PROPERTY LINE
	CONTOUR LINE
	INDEX CONTOUR LINE
	EDGE OF ROAD
	EDGE OF GRAVEL
	STONEWALL
	OVERHEAD WIRE
	DRAINAGE PIPE
	GRASSED SWALE
	EASEMENT
	HYDRANT
	WATER VALVE
	UTILITY POLE
	REBAR FOUND
	CONCRETE MONUMENT
	SANITARY SEWER SERVICE CLEANOUT
	WATER VALVE
	(2) - 1" CURB STOPS
	PERC TEST LOCATION
	DEEP TEST LOCATION

DRAWING STATUS		ISSUE DATE: 12/03/12	
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR		SHEET NUMBER	
<input checked="" type="checkbox"/> CONCEPT APPROVAL	1	OF	2
<input type="checkbox"/> PLANNING BOARD APPROVAL	N/A	OF	N/A
<input type="checkbox"/> OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
<input type="checkbox"/> OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
<input type="checkbox"/> NYSDEC APPROVAL	N/A	OF	N/A
<input type="checkbox"/> NYSDOT APPROVAL	N/A	OF	N/A
<input type="checkbox"/> OTHER	N/A	OF	N/A
<input type="checkbox"/> FOR BID	N/A	OF	N/A
<input type="checkbox"/> FOR CONSTRUCTION	N/A	OF	N/A

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ROSS WINGLOVITZ, P.E.
NEW YORK LICENSE # 071701

1 inch = 20 ft.

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BRIAN D. BABCOCK, L.S.
NEW YORK STATE LICENSE # 050830

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COUNTRY ESTATES SUBDIVISION
AMENDED SUBDIVISION PLAN LOT #3 & #10

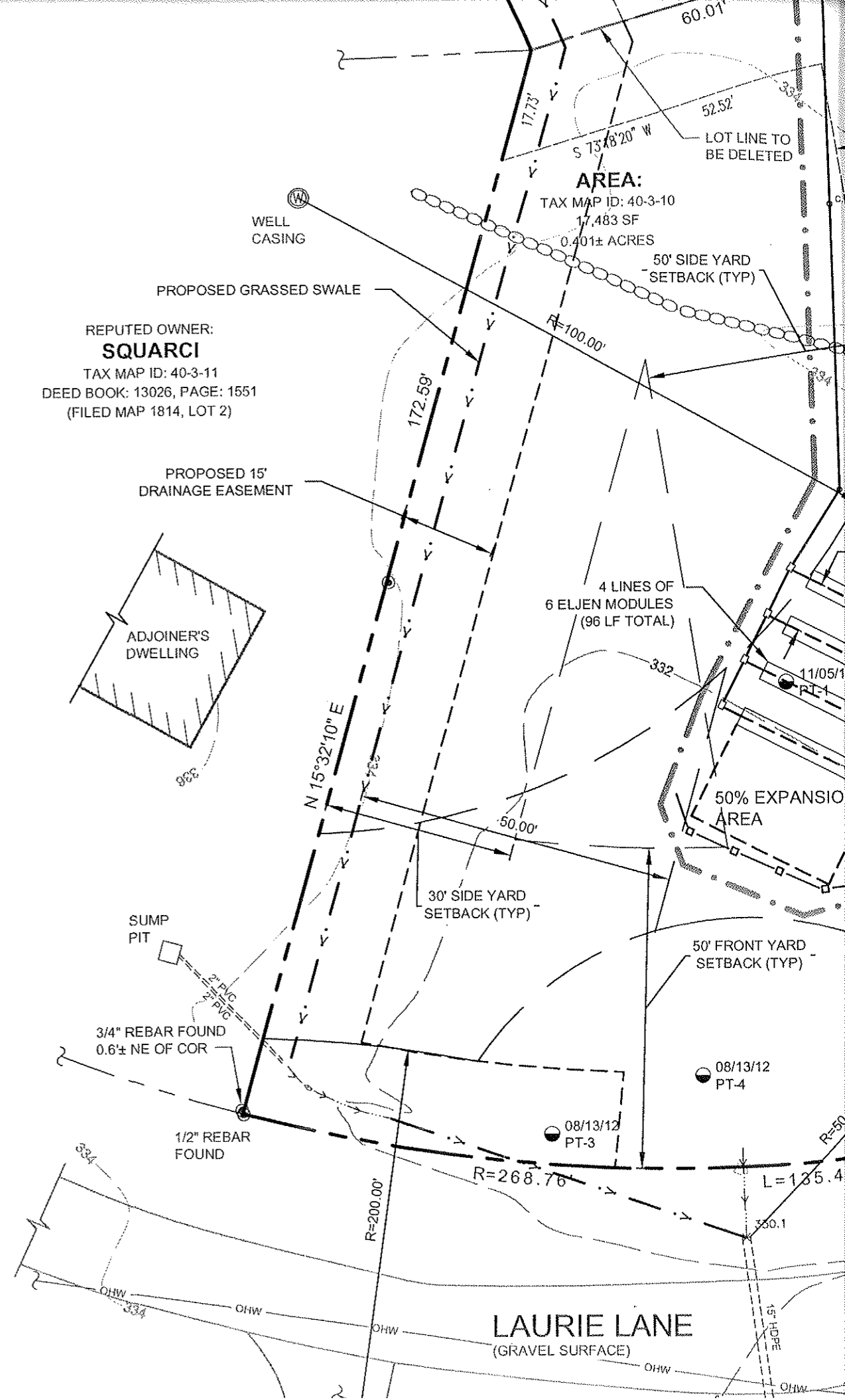
JOHN K. JOHN
LAURIE LANE
TOWN OF NEWBURGH
ORANGE COUNTY, NEW YORK

JOB #: 1027.01 DRAWN BY: MAL

HT 2013 ENGINEERING PROPERTIES, PC

REPUTED OWNER:
SQUARCI
 TAX MAP ID: 40-3-11
 DEED BOOK: 13026, PAGE: 1551
 (FILED MAP 1814, LOT 2)

AREA:
 TAX MAP ID: 40-3-10
 17,483 SF
 0.401± ACRES



REPUTED SEPTIC AREA

I HEREBY CERTIFY TO THE PARTIES OF INTEREST LISTED BELOW:

JOHN K. JOHN;
 LIZY JOHN;

THAT THIS SURVEY MAP IS THE RESULT OF AN ACTUAL FIELD SURVEY PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT IT IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF, BASED ON DATA CONTAINED IN DEEDS OR MAPS OF RECORD LISTED HEREON, TOGETHER WITH EVIDENCE FOUND IN THE FIELD, AND THAT THERE ARE NO SURFACE ENCROACHMENTS EXCEPT AS OTHERWISE SHOWN HEREON, AS COMPLETED ON (LAST FIELD DATE).