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PATRICK J. HINES

Principal Emeritus:
RICHARD D. McGOEY, P.E. (NY & PA)
WILLIAM J. HAUSER, P.E. (NY, NJ & PA)

**TOWN OF NEWBURGH
PLANNING BOARD
TECHNICAL REVIEW COMMENTS**

PROJECT: CARLOS DOMINQUES II
PROJECT NO.: 2015-29
PROJECT LOCATION: SECTION: 7 BLOCK: 1 LOT: 1.5
REVIEW DATE: 12 MAY 2017
MEETING DATE: 18 MAY 2017
PROJECT REPRESENTATIVE: TALCOTT ENGINEERING

1. Copies of the private road access and maintenance agreement should be submitted to Mike Donnelly's office for review. Driveway on Lot #5 should be evaluated with regard to proximity to the common property line.
2. Condition of the existing detention pond should be evaluated by the Applicant's representative to determine if any maintenance or repair work is required. Applicant's representative is requested to evaluate the increase in impervious surfaces proposed to be tributary to the detention pond facility with regard to the original design of the facility.
3. Due to proximity of the proposed residences to the bulk setback lines a note has been added to the plans requiring field surveys and stake outs of the structures and sanitary sewer disposal systems.
4. Size of driveway culverts should be called out on the plans.
5. A NYSDEC SPDES Stormwater Permit is required for the project. A soil erosion and sediment control plan should be developed consistent with the NYSDEC SPDES permit.
6. Public Hearing is required.

Respectfully submitted,

**McGoey, Hauser and Edsall
Consulting Engineers, D.P.C.**

Patrick J. Hines
Principal

PJH/kbw

Talcott Engineering

DESIGN, PLLC

1 GARDNERTOWN ROAD ~ NEWBURGH, NY 12550
(845) 569-8400* ~ (fax) (845) 569-4583

Town of Newburgh
Planning Board
308 Gardnertown Road
Newburgh, NY 12550

May 2, 2017

Attn: John Ewasutyn, Chairman

Re: Resubmission letter
Town Project No. 2015-29
Carlos Domingues II Subdivision
Domingues Road
SBL: 7-1-1.5
AR Zone
Job No. 15082-CDS

Dear John,

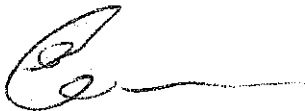
The following is our;

Response to Town of Newburgh Planning Board Review Comments review dated 10/30/15

- 1) A field survey has been done, including As-Built of the existing retention pond. This pond was sized to accommodate this subdivision.
- 2) Limits of disturbances are shown, with the calculated area shown under the bulk table.
- 3) Drainage rims and inverts were surveyed and are on plans.
- 4) All existing and proposed wells and septic systems, within influence distances, are now shown on plans.
- 5) Additional site and soil testing was done, with deep tests witnessed by a representative of the Planning Board Engineer on November 16, 2015. Testing shows soils are adequate for systems as designed.

Attached please find 12 sets of prints. I will FedEx 1 copy to Michael Donnelly and deliver 1 copy to Pat Hines.

Respectfully yours,



Charles T. Brown, P.E. – President
Talcott Engineering

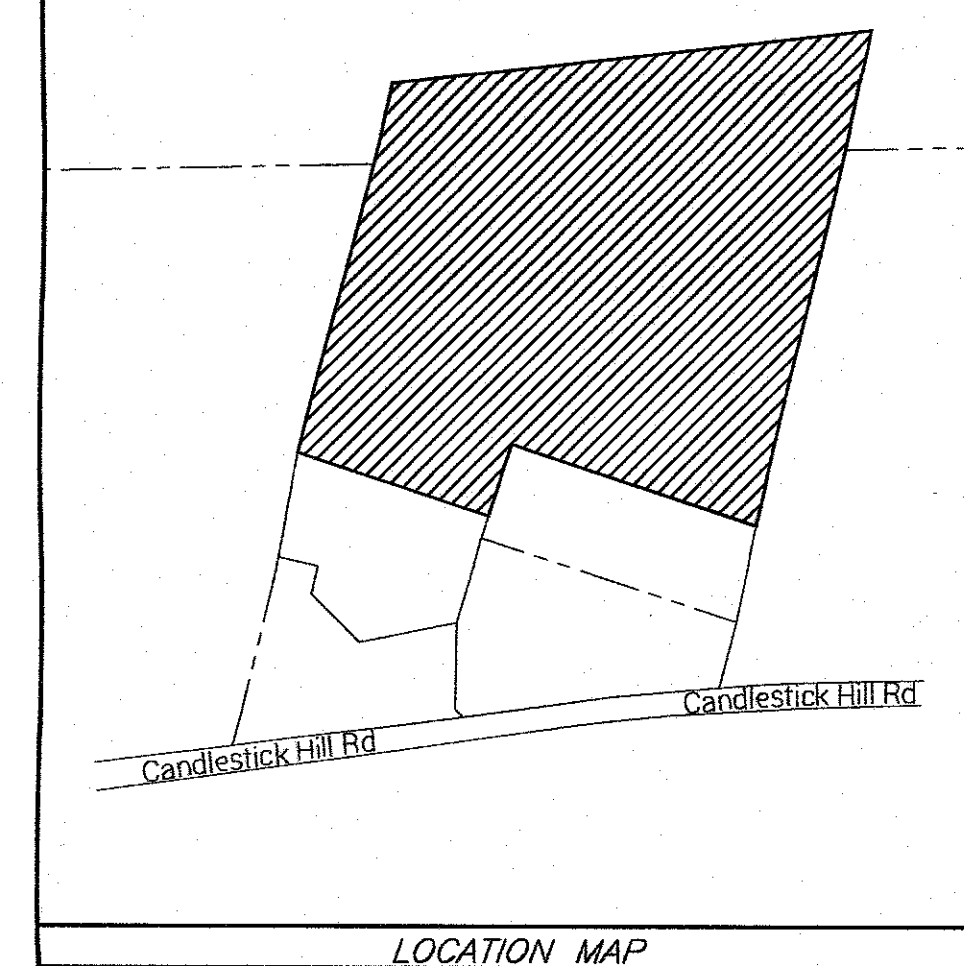
Pc: Carlos Domingues, Client
Michael Donnelly w/enc.
Pat Hines w/enc.

ZONING SCHEDULE	REQUIRED	LOT #5 PROPOSED	LOT #6 PROPOSED	LOT #7 PROPOSED	LOT #8 PROPOSED	LOT #9 PROPOSED
ZONE: AR						
MINIMUM LOT AREA	40,000sf.	47,476sf.	45,520sf.	53,566sf.	73,487sf.	265,554sf.
MINIMUM YARDS (feet)						
FRONT	50'	50' MIN.	50' MIN.	N/A	N/A	50' MIN.
REAR	50'	50' MIN.	50' MIN.	50' MIN.	50' MIN.	50' MIN.
SIDE						
ONE	30'	40' MIN.	30' MIN.	30'/50' MIN.	30' MIN.	30'/50' MIN.
BOTH	80'	80' MIN.	80' MIN.	130' MIN.	80' MIN.	130' MIN.
MINIMUM LOT DEPTH (feet)	150'	280'±	227'±	303'±	425'±	655'±
MINIMUM LOT WIDTH (feet)	150'	155'±	181'±	161'±	187'±	835'±
MAXIMUM LOT SURFACE COVERAGE (%)	20%	11% MAX.	9% MAX.	11% MAX.	7% MAX.	20% MAX.
MAXIMUM HEIGHT						
HEIGHT (feet)	35'	35' MAX.	35' MAX.	35' MAX.	35' MAX.	35' MAX.
MINIMUM BUILDING ENVELOPE	10,000sf.	13,578sf.	12,326sf.	12,033sf.	22,157sf.	86,533sf.

TOTAL SITE LIMITS OF DISTURBANCE: 89,172SF / 2.05AC

LEGEND

- PROPERTY LINE EXISTING
- PROPERTY LINE PROPOSED
- EASEMENT EXISTING
- PROPERTY LINE ADJOINING
- STONEWALL
- ⊕ WELL EXISTING
- ⊕ WELL PROPOSED
- ▨ BUILDING EXISTING
- ▨ HOUSE PROPOSED
- DRIVEWAY
- 15% H/DPE DRIVEWAY CULVERT @ 2%min.
- SETBACKS



SITE DATA
 TAX MAP ID: SBL 7-1-1.5
 TOTAL SIZE: 485,258sf./11.14 ACRES
 DEED: L.11359, P.640
 SCHOOL DISTRICT: MARLBORO
 FIRE DISTRICT: MIDDLEHOPE

- LOT NOTES:**
- LOT SPECIFIC PLOT PLAN'S FOR EACH LOT SHALL BE SUBMITTED WITH EACH BUILDING PERMIT APPLICATIONS AND FOUNDATIONS, WELLS AND SEPTIC FIELDS SHALL BE STAKED OUT PER PLOT PLANS BY A LICENSED SURVEYOR PRIOR TO ISSUANCE OF A BUILDING PERMIT.
 - A SURVEY SHALL BE PROVIDED TO THE TOWN OF NEWBURGH CODE COMPLIANCE DEPARTMENT FOR EACH LOT SHOWING THE STAKED LOCATION OF THE PROPOSED FOUNDATION, WELL AND SEPTIC FOR LOTS 5 THRU 9

- AGRICULTURAL NOTES:**
- THIS SUBDIVISION IS LOCATED IN AN AGRICULTURALLY ZONED DISTRICT. IT DOES HAVE ACTIVE FARMING OPERATIONS IN THE VICINITY. BE ADVISED OF THE FOLLOWING:
- THAT FARMING DOES NOT OCCUR ONLY BETWEEN 8:00am AND 5:00pm AND IS DEPENDENT ON MOTHER NATURE. RESIDENTS SHOULD BE AWARE OF NOISE FROM AGRICULTURAL MACHINERY BEING OPERATED IN NEARBY FIELDS IN EARLY MORNING AND EVENING HOURS AND NOISE FROM CROP DRYING FANS WHICH ARE ON 24 HOURS A DAY DURING THE HARVESTING
 - THAT THE ROADS LEADING TO AND FROM THE SUBDIVISION ARE FREQUENTLY TRAVELED BY FARMERS AND THEIR SLOW MOVING FARM VEHICLES AND EQUIPMENT.
 - THAT FARM NEIGHBORS VERY OFTEN SPRAY THEIR CROPS WITH PESTICIDES IN ACCORDANCE WITH ACCEPTED PRACTICES REGULATED BY THE NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC NOTIFICATION No. 325, OCTOBER 1988).
 - THAT EXISTING AGRICULTURAL OPERATIONS MAY CREATE BOTH UNAVOIDABLE ODORS AND UNSIGHTLINESS COMMONLY ASSOCIATED WITH FARMING OPERATIONS IN THE AREA.
 - THAT THERE ARE DANGERS IN LETTING CHILDREN AND PETS ROAM INTO ANY ADJACENT FIELD, WHICH IS PRIVATE PROPERTY.

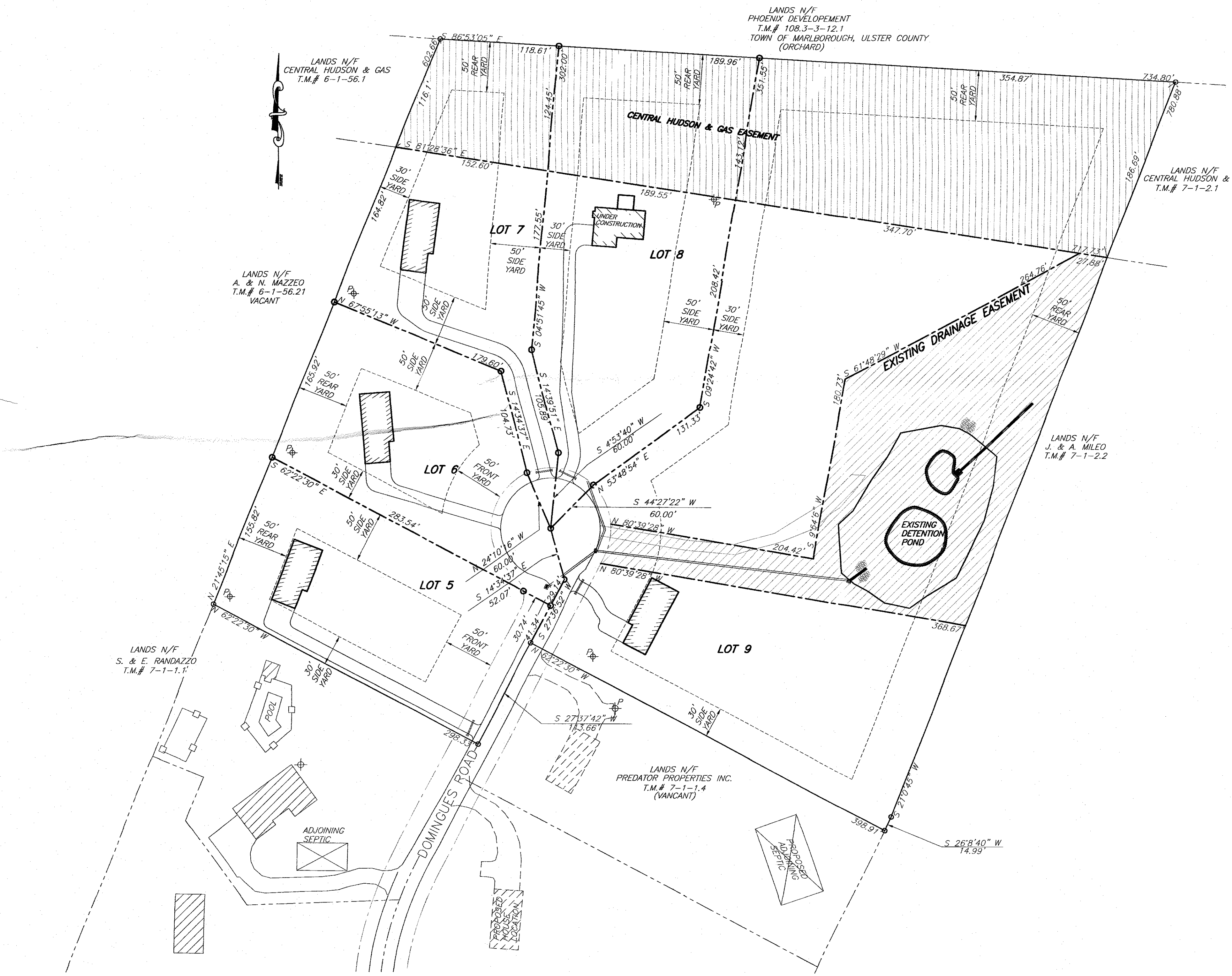
SURVEYOR'S CERTIFICATION:
 I HEREBY CERTIFY TO THE PARTIES OF INTEREST LISTED BELOW THAT THIS MAP SHOWS THE RESULTS OF AN ACTUAL SURVEY COMPLETED IN THE FIELD

SIGNATURE _____ DARREN J. STRIDIRO, PLS

RECORD OWNER'S CONSENT NOTE:
 THE UNDERSIGNED OWNERS OF THE PROPERTY HEREON STATE THAT THEY ARE FAMILIAR WITH THIS PLAN, ITS CONTENTS AND ITS LEGENDS AND HEREBY CONSENT TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON AND TO THE FILING OF THIS PLAN IN THE OFFICE OF THE CLERK OF THE COUNTY OF ORANGE, IF SO REQUIRED.

SIGNATURE _____ CARLOS DOMINGUES
 28 LAKE ROAD
 SALISBURY MILLS, NY 12577

APPLICANT
 CARLOS DOMINGUES
 28 LAKE ROAD
 SALISBURY MILLS, NY 12577



CALL BEFORE YOU DIG... IT'S THE LAW

WHETHER YOU'RE LAYING A FOUNDATION FOR A BUILDING OR PLANTING A TREE, YOU MUST FIRST CHECK FOR THE EXISTENCE OF UNDERGROUND UTILITY LINES AND CABLES. IF YOU OR YOUR CONTRACTOR DISRUPT ANY OF THESE LINES, THE RESULTS CAN BE DANGEROUS - AND COSTLY - TO EVERYONE. CALL BEFORE YOU DIG, TOLL FREE, 811

REVISIONS			
REV.	DATE	BY	DESCRIPTION
1	05/01/17	RBM	REVISED PER PLANING BOARD COMMENTS

TOWN PROJECT#2015-29
 THIS SHEET IS INVALID AND VOID UNLESS ACCOMPANIED BY REMAINING SHEETS IN SET.

SURVEYOR CHARLES T. BROWN, P.E.	ENGINEER CHARLES T. BROWN, P.E.	TALCOTT ENGINEERING DESIGN PLLC 1 GARDNERTOWN ROAD NEWBURGH, NY 12550 (845)-569-8400 (FAX)(845)-569-4583 TALCOTTDESIGN12@GMAIL.COM	
		SUBDIVISION PLAN SUBDIVISION SKETCH ENTITLED "DOMINGUES II" CANDLESTICK HILL ROAD, SBL: 7-1-1.5 LOT # 5 OF FM# 594-08 TOWN OF NEWBURGH, ORANGE COUNTY, NY	
DATE: 10/27/15	SCALE: 1"=60'	JOB NUMBER: 15082-CDS	SHEET NUMBER: 1 OF 4

LANDS N/F
PHOENIX DEVELOPMENT
T.M.# 108.3-3-12.1
TOWN OF MARLBOROUGH, ULSTER COUNTY
(ORCHARD)

LANDS N/F
CENTRAL HUDSON & GAS
T.M.# 6-1-56.1

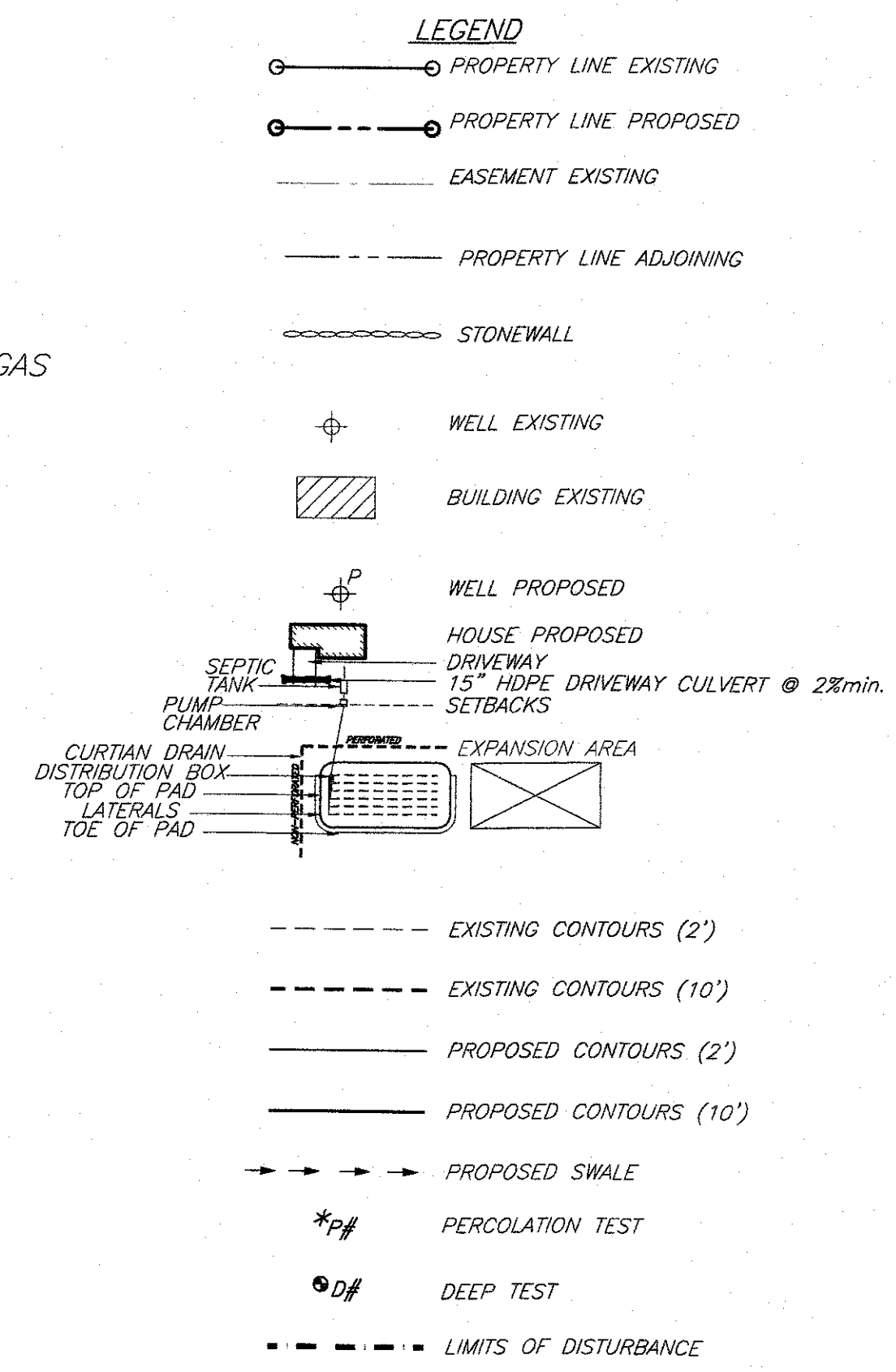
LANDS N/F
A. & N. MAZZEO
T.M.# 6-1-56.21
VACANT

LANDS N/F
CENTRAL HUDSON & GAS
T.M.# 7-1-2.1

LANDS N/F
J. & A. MILEO
T.M.# 7-1-2.2

LANDS N/F
S. & E. RANDAZZO
T.M.# 7-1-1.1

LANDS N/F
PREDATOR PROPERTIES INC.
T.M.# 7-1-1.4
(VACANT)

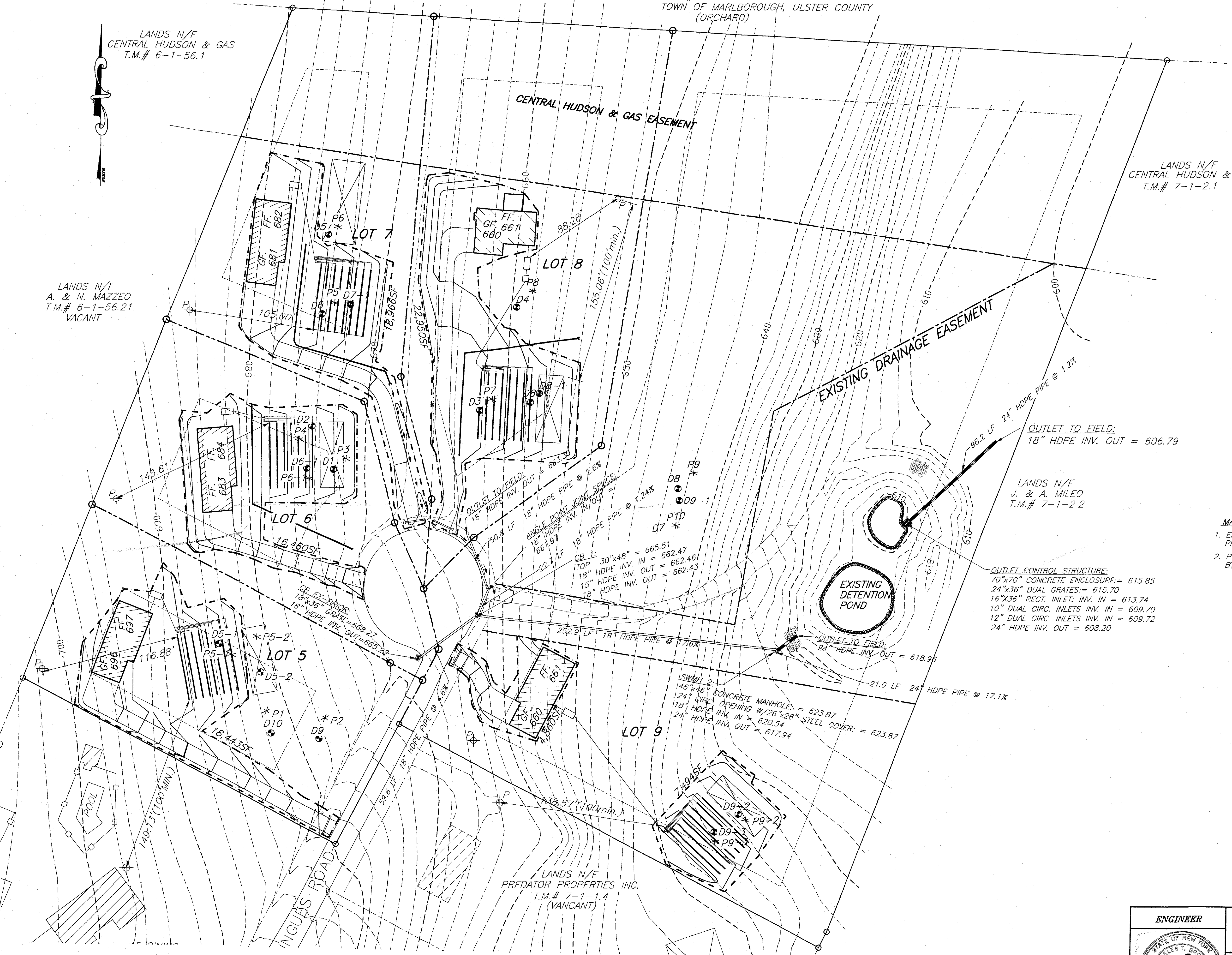


- MAP REFERENCE**
- EXISTING TOPOGRAPHY PER A 5 SUBDIVISION FOR CARLOS DOMINGUES PREPARED BY WILLIAM E EUSTANCE PE LAST REVISED 09/26/06.
 - POND TOPOGRAPHY AND DRAINAGE ELEVATIONS PER A SURVEY PERFORMED BY JONATHAN MILLEN LS DURING 2016

OUTLET CONTROL STRUCTURE:
70"x70" CONCRETE ENCLOSURE = 615.85
24"x36" DUAL GRATES = 615.70
16"x36" RECT. INLET INV. IN = 613.74
10" DUAL CIRC. INLETS INV. IN = 609.70
12" DUAL CIRC. INLETS INV. IN = 609.72
24" HDPE INV. OUT = 608.20

ISWALL 2:
46"x46" CONCRETE MANHOLE = 623.87
12" CIRC. OPENING W/26"x26" STEEL COVER = 623.87
18" HDPE INV. IN = 620.54
24" HDPE INV. OUT = 617.94

ANGLE POINT JOINT SPICES:
CB 1: 30"x48" = 665.51
18" HDPE INV. IN = 662.47
15" HDPE INV. OUT = 662.43
18" HDPE INV. OUT = 663.30



CALL BEFORE YOU DIG... IT'S THE LAW

WHETHER YOU'RE LAYING A FOUNDATION FOR A BUILDING OR PLANTING A TREE, YOU MUST FIRST CHECK FOR THE EXISTENCE OF UNDERGROUND UTILITY LINES AND CABLES. IF YOU OR YOUR CONTRACTOR DISRUPT ANY OF THESE LINES, THE RESULTS CAN BE DANGEROUS - AND COSTLY - TO EVERYONE. CALL BEFORE YOU DIG, TOLL FREE, 811

TOWN CERTIFICATION:
"I HEREBY CERTIFY TO THE TOWN OF NEWBURGH THAT THE SEWAGE DISPOSAL SYSTEM DEPICTED ON THIS PLAT HAS BEEN DESIGNED IN ACCORDANCE WITH THE NEW YORK STATE PUBLIC HEALTH LAW AND ALL REGULATIONS PROMULGATED THEREUNDER."

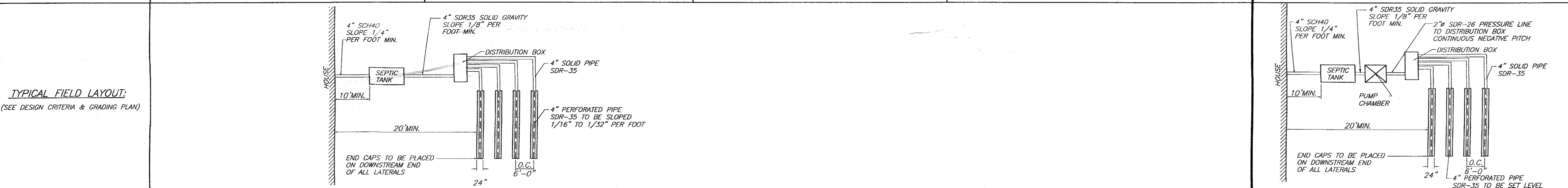
TOWN PROJECT#2015-29
THIS SHEET IS INVALID AND VOID UNLESS ACCOMPANIED BY REMAINING SHEETS IN SET

REV.	DATE	BY	DESCRIPTION
1	05/01/17	RBM	REVISED PER PLANNING BOARD COMMENTS

	<p>ENGINEER</p> <p>TALCOTT ENGINEERING DESIGN PLLC 1 CARDINERTOWN ROAD NEWBURGH, NY 12550 (845)-569-8400 (FAX)(845)-569-4583 TALCOTTDESIGN2@GMAIL.COM</p>
	<p>GRADING PLAN</p> <p>SUBDIVISION SKETCH ENTITLED "DOMINGUES II"</p> <p>CANDLESTICK HILL ROAD, SBL: 7-1-1.5</p> <p>LOT# 5 OF FM# 594-08</p> <p>TOWN OF NEWBURGH, ORANGE COUNTY, NY</p>
<p>DATE: 6/23/15</p> <p>SCALE: 1"=40'</p> <p>JOB NUMBER: 15082-CDS</p> <p>SHEET NUMBER: 2 OF 4</p>	

LOT #	LOT 5	LOT 6	LOT 7	LOT 9	LOT 8 (UNDER CONSTRUCTION)
	<p>D9 85" DEEP 06/26/15 0-10" TOPSOIL 10-85" CLAY LOAM SOME MOTTLING, WATER AT 24"</p> <p>D10 90" DEEP 06/26/15 0-8" TOPSOIL SOME MOTTLING 8-90" CLAY LOAM SOME MOTTLING, WATER AT 18"</p> <p>D5-1 84" DEEP 11/16/15 0-10" TOPSOIL 10"-84" CLAY LOAM WATER SEEPAGE @26"</p> <p>D5-2 80" DEEP 07/06/16 0-10" TOPSOIL 10"-80" CLAY LOAM NO MOTTLING, WATER OR ROCK</p> <p>D5-1 WITNESSES BY MH&E</p>	<p>D1 90" DEEP 06/26/15 0-8" TOPSOIL 8-36" CLAY LOAM 36-90" CLAY GRAVELY LOAM</p> <p>D2 78" DEEP 06/26/15 0-9" TOPSOIL 9-35" CLAY LOAM SOME MOTTLING 35-78" CLAY GRAVELY LOAM</p> <p>D6-1 76" DEEP 11/16/15 0-10" TOPSOIL 10"-76" CLAY LOAM SOME ROCKS</p> <p>D6-1 WITNESSES BY MH&E</p>	<p>D5 85" DEEP 06/26/15 0-10" TOPSOIL 10-29" CLAY LOAM 29-85" CLAY GRAVELY LOAM SOME MOTTLING</p> <p>D6 81" DEEP 06/26/15 0-9" TOPSOIL 9-42" CLAY LOAM 42-81" CLAY LOAM SOME CLAY PIECES</p> <p>D7-1 76" DEEP 11/16/15 0-6" TOPSOIL 6-76" CLAY LOAM CRITTY</p> <p>D7-1 WITNESSES BY MH&E</p>	<p>D7 82" DEEP 06/26/15 0-9" TOPSOIL 9-82" CLAY LOAM SOME MOTTLING</p> <p>D8 84" DEEP 06/26/15 0-8" TOPSOIL SOME MOTTLING 8-84" CLAY LOAM SOME MOTTLING</p> <p>D9-1 78" DEEP 11/16/15 0-10" TOPSOIL SOME MOTTLING 10-78" GRAVELY CLAY LOAM</p> <p>D9-2 84" DEEP 07/06/16 0-6" TOPSOIL 6-48" SILTY CLAY LOAM WITH GRAVEL 48"-84" SILTY CLAY LOAM WITH SHALE NO MOTTLING, WATER OR ROCK</p> <p>D9-3 72" DEEP 07/06/16 0-6" TOPSOIL 6-48" SILTY CLAY LOAM WITH GRAVEL 48"-72" SILTY CLAY LOAM WITH SHALE NO MOTTLING, WATER OR ROCK</p> <p>D9-1 WITNESSES BY MH&E</p>	<p>D3 84" DEEP 06/26/15 0-8" TOPSOIL 8-35" CLAY LOAM 35-84" CLAY LOAM WITH SHALE</p> <p>D4 80" DEEP 06/26/15 0-5" TOPSOIL 5-22" CLAY LOAM 22-80" CLAY LOAM, MOTTLING THROUGHOUT, WATER AT 18"</p> <p>D8-1 60" DEEP 11/16/15 0-8" TOPSOIL 8-24" CLAY STRIP 24"-60" CLAY LOAM w/MED STONE HARD PAN @ 60"</p> <p>D8-1 WITNESSES BY MH&E</p>

PERCOLATION DATA:	LOT 5	LOT 6	LOT 7	LOT 9	LOT 8 (UNDER CONSTRUCTION)																																																																																																																																																																																																																																																									
	<p>* P1 12" DEEP 07/6/15</p> <table border="1"> <tr><td>START</td><td>11:10</td><td>11:48</td><td>12:22</td><td>12:59</td></tr> <tr><td>FINISH</td><td>11:37</td><td>12:20</td><td>12:57</td><td>1:34</td></tr> <tr><td>TIME</td><td>0:27</td><td>0:32</td><td>0:35</td><td>0:35</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 35 MINUTES /INCH</p> <p>* P2 12" DEEP 07/6/15</p> <table border="1"> <tr><td>START</td><td>11:11</td><td>11:27</td><td>11:50</td><td></td></tr> <tr><td>FINISH</td><td>11:26</td><td>11:47</td><td>12:10</td><td></td></tr> <tr><td>TIME</td><td>0:15</td><td>0:20</td><td>0:20</td><td></td></tr> </table> <p>STABILIZED PERCOLATION RATE: 20 MINUTES /INCH</p> <p>+* P5-1 12" DEEP 01/19/17</p> <table border="1"> <tr><td>START</td><td>10:28</td><td>10:58</td><td>11:28</td><td>12:32</td><td>1:04</td></tr> <tr><td>FINISH</td><td>10:10</td><td>10:30</td><td>11:00</td><td>11:30</td><td>12:32</td></tr> <tr><td>TIME</td><td>0:18</td><td>0:28</td><td>0:28</td><td>0:32</td><td>0:32</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 32 MINUTES /INCH</p> <p>+* P5-2 12" DEEP 01/19/17</p> <table border="1"> <tr><td>START</td><td>10:55</td><td>11:31</td><td>12:07</td><td></td></tr> <tr><td>FINISH</td><td>10:31</td><td>10:56</td><td>11:32</td><td></td></tr> <tr><td>TIME</td><td>0:24</td><td>0:25</td><td>0:35</td><td></td></tr> </table> <p>STABILIZED PERCOLATION RATE: 35 MINUTES /INCH</p>	START	11:10	11:48	12:22	12:59	FINISH	11:37	12:20	12:57	1:34	TIME	0:27	0:32	0:35	0:35	START	11:11	11:27	11:50		FINISH	11:26	11:47	12:10		TIME	0:15	0:20	0:20		START	10:28	10:58	11:28	12:32	1:04	FINISH	10:10	10:30	11:00	11:30	12:32	TIME	0:18	0:28	0:28	0:32	0:32	START	10:55	11:31	12:07		FINISH	10:31	10:56	11:32		TIME	0:24	0:25	0:35		<p>* P3 12" DEEP 07/6/15</p> <table border="1"> <tr><td>START</td><td>11:57</td><td>12:02</td><td>12:09</td><td></td></tr> <tr><td>FINISH</td><td>12:01</td><td>12:09</td><td>12:16</td><td></td></tr> <tr><td>TIME</td><td>0:04</td><td>0:07</td><td>0:07</td><td></td></tr> </table> <p>STABILIZED PERCOLATION RATE: 7 MINUTES /INCH</p> <p>* P4 12" DEEP 07/6/15</p> <table border="1"> <tr><td>START</td><td>11:59</td><td>12:26</td><td></td><td></td></tr> <tr><td>FINISH</td><td>12:25</td><td>12:52</td><td></td><td></td></tr> <tr><td>TIME</td><td>0:26</td><td>0:26</td><td></td><td></td></tr> </table> <p>STABILIZED PERCOLATION RATE: 26 MINUTES /INCH</p> <p>* P6-1 12" DEEP 01/19/17</p> <table border="1"> <tr><td>START</td><td>10:34</td><td>10:52</td><td>11:21</td><td>11:50</td></tr> <tr><td>FINISH</td><td>10:24</td><td>10:35</td><td>10:53</td><td>11:22</td></tr> <tr><td>TIME</td><td>0:10</td><td>0:27</td><td>0:28</td><td>0:28</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 28 MINUTES /INCH</p>	START	11:57	12:02	12:09		FINISH	12:01	12:09	12:16		TIME	0:04	0:07	0:07		START	11:59	12:26			FINISH	12:25	12:52			TIME	0:26	0:26			START	10:34	10:52	11:21	11:50	FINISH	10:24	10:35	10:53	11:22	TIME	0:10	0:27	0:28	0:28	<p>+* P5 12" DEEP 07/9/15</p> <table border="1"> <tr><td>START</td><td>11:02</td><td>11:28</td><td>11:59</td><td></td></tr> <tr><td>FINISH</td><td>11:22</td><td>11:59</td><td>12:30</td><td></td></tr> <tr><td>TIME</td><td>0:20</td><td>0:31</td><td>0:31</td><td></td></tr> </table> <p>STABILIZED PERCOLATION RATE: 31 MINUTES /INCH</p> <p>* P6 12" DEEP 07/9/15</p> <table border="1"> <tr><td>START</td><td>11:07</td><td>11:27</td><td>11:44</td><td></td></tr> <tr><td>FINISH</td><td>11:27</td><td>11:43</td><td>12:00</td><td></td></tr> <tr><td>TIME</td><td>0:20</td><td>0:16</td><td>0:16</td><td></td></tr> </table> <p>STABILIZED PERCOLATION RATE: 16 MINUTES /INCH</p> <p>+* P9-2 12" DEEP 01/19/17</p> <table border="1"> <tr><td>START</td><td>2:18</td><td>2:33</td><td>3:04</td><td>3:27</td><td>3:49</td></tr> <tr><td>FINISH</td><td>2:08</td><td>2:18</td><td>2:34</td><td>3:05</td><td>3:27</td></tr> <tr><td>TIME</td><td>0:10</td><td>0:15</td><td>0:30</td><td>0:22</td><td>0:22</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 22 MINUTES /INCH</p> <p>+* P9-3 12" DEEP 01/19/17</p> <table border="1"> <tr><td>START</td><td>2:24</td><td>2:34</td><td>3:04</td><td>2:06</td></tr> <tr><td>FINISH</td><td>2:17</td><td>2:24</td><td>2:48</td><td>2:38</td></tr> <tr><td>TIME</td><td>0:07</td><td>0:10</td><td>0:32</td><td>0:32</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 32 MINUTES /INCH</p>	START	11:02	11:28	11:59		FINISH	11:22	11:59	12:30		TIME	0:20	0:31	0:31		START	11:07	11:27	11:44		FINISH	11:27	11:43	12:00		TIME	0:20	0:16	0:16		START	2:18	2:33	3:04	3:27	3:49	FINISH	2:08	2:18	2:34	3:05	3:27	TIME	0:10	0:15	0:30	0:22	0:22	START	2:24	2:34	3:04	2:06	FINISH	2:17	2:24	2:48	2:38	TIME	0:07	0:10	0:32	0:32	<p>* P9 12" DEEP 07/9/15</p> <table border="1"> <tr><td>START</td><td>12:45</td><td>12:58</td><td>1:04</td><td></td></tr> <tr><td>FINISH</td><td>12:57</td><td>1:04</td><td>1:10</td><td></td></tr> <tr><td>TIME</td><td>0:07</td><td>0:06</td><td>0:06</td><td></td></tr> </table> <p>STABILIZED PERCOLATION RATE: 6 MINUTES /INCH</p> <p>* P10 12" DEEP 07/9/15</p> <table border="1"> <tr><td>START</td><td>12:52</td><td>1:07</td><td>1:32</td><td>2:06</td></tr> <tr><td>FINISH</td><td>1:07</td><td>1:32</td><td>2:04</td><td>2:38</td></tr> <tr><td>TIME</td><td>0:15</td><td>0:25</td><td>0:32</td><td>0:32</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 32 MINUTES /INCH</p> <p>+* P8-1 12" DEEP 01/19/17</p> <table border="1"> <tr><td>START</td><td>1:45</td><td>2:22</td><td>2:59</td><td></td></tr> <tr><td>FINISH</td><td>1:23</td><td>1:46</td><td>2:23</td><td></td></tr> <tr><td>TIME</td><td>0:22</td><td>0:36</td><td>0:36</td><td></td></tr> </table> <p>STABILIZED PERCOLATION RATE: 36 MINUTES /INCH</p>	START	12:45	12:58	1:04		FINISH	12:57	1:04	1:10		TIME	0:07	0:06	0:06		START	12:52	1:07	1:32	2:06	FINISH	1:07	1:32	2:04	2:38	TIME	0:15	0:25	0:32	0:32	START	1:45	2:22	2:59		FINISH	1:23	1:46	2:23		TIME	0:22	0:36	0:36		<p>* P7 12" DEEP 07/9/15</p> <table border="1"> <tr><td>START</td><td>11:19</td><td>11:44</td><td>12:17</td><td>12:58</td><td>1:45</td></tr> <tr><td>FINISH</td><td>11:41</td><td>12:16</td><td>12:54</td><td>1:39</td><td>2:22</td></tr> <tr><td>TIME</td><td>0:22</td><td>0:32</td><td>0:37</td><td>0:41</td><td>0:37</td></tr> </table> <p>STABILIZED PERCOLATION RATE: 37 MINUTES /INCH</p> <p>* P8 12" DEEP 07/9/15</p> <table border="1"> <tr><td>START</td><td>11:25</td><td>11:37</td><td>11:49</td><td></td></tr> <tr><td>FINISH</td><td>11:33</td><td>11:45</td><td>11:57</td><td></td></tr> <tr><td>TIME</td><td>0:08</td><td>0:08</td><td>0:08</td><td></td></tr> </table> <p>STABILIZED PERCOLATION RATE: 8 MINUTES 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SEPTIC DESIGN CRITERIA:	LOT 5	LOT 6	LOT 7	LOT 9	LOT 8 (UNDER CONSTRUCTION)
	<p>+USED FOR DESIGN</p> <p>SEPTIC DESIGN CRITERIA:</p> <ol style="list-style-type: none"> NO. OF BEDROOMS- 4 MAX. SEPTIC TANK DESIGN- 1,250gal. STABILIZED PERCOLATION RATE- 35 MIN FLOW RATE (GALS /DAY)- 440 DESIGN LENGTHS: 3BR - 6@56' = 336LF (330LF REQUIRED) 4BR - 8@56' = 448LF (440LF REQUIRED) FILL REQUIRED: 18" MIN. SHALLOW TRENCH CURTAIN DRAIN REQUIRED 	<p>+USED FOR DESIGN</p> <p>SEPTIC DESIGN CRITERIA:</p> <ol style="list-style-type: none"> NO. OF BEDROOMS- 4 MAX. SEPTIC TANK DESIGN- 1,250gal. STABILIZED PERCOLATION RATE- 28 MIN FLOW RATE (GALS /DAY)- 440 DESIGN LENGTHS: 3BR - 5@55' = 275LF (275LF REQUIRED) 4BR - 7@55' = 371LF (385LF REQUIRED) FILL REQUIRED: 18" MIN. SHALLOW TRENCH CURTAIN DRAIN REQUIRED 	<p>+ USED FOR DESIGN</p> <p>SEPTIC DESIGN CRITERIA:</p> <ol style="list-style-type: none"> NO. OF BEDROOMS- 4 MAX. SEPTIC TANK DESIGN- 1,250gal. STABILIZED PERCOLATION RATE- 31 MIN FLOW RATE (GALS /DAY)- 440 DESIGN LENGTHS: 3BR - 6@56' = 336LF (330LF REQUIRED) 4BR - 8@56' = 448LF (440LF REQUIRED) FILL REQUIRED: 18" MIN. SHALLOW TRENCH CURTAIN DRAIN REQUIRED 	<p>+USED FOR DESIGN</p> <p>SEPTIC DESIGN CRITERIA:</p> <ol style="list-style-type: none"> NO. OF BEDROOMS- 4 MAX. SEPTIC TANK DESIGN- 1,250gal. STABILIZED PERCOLATION RATE- 32 MIN FLOW RATE (GALS /DAY)- 440 DESIGN LENGTHS: 3BR - 6@56' = 336LF (330LF REQUIRED) 4BR - 8@56' = 448LF (440LF REQUIRED) FILL REQUIRED: 18" MIN. SHALLOW TRENCH CURTAIN DRAIN REQUIRED 	<p>NOTE: HOUSE IS UNDER CONSTRUCTION</p> <p>+USED FOR DESIGN</p> <p>SEPTIC DESIGN CRITERIA:</p> <ol style="list-style-type: none"> NO. OF BEDROOMS- 4 MAX. SEPTIC TANK DESIGN- 1,250gal. STABILIZED PERCOLATION RATE- 37 MIN FLOW RATE (GALS /DAY)- 440 DESIGN LENGTHS: 3BR - 6@56' = 336LF (330LF REQUIRED) 4BR - 8@56' = 448LF (440LF REQUIRED) FILL REQUIRED: 18" MIN. SHALLOW TRENCH CURTAIN DRAIN REQUIRED PUMP CHAMBER REQUIRED

THIS SHEET IS INVALID AND VOID UNLESS ACCOMPANIED BY REMAINING SHEETS IN SET.
TOWN PROJECT#2015-29

REVISIONS			
REV.:	DATE:	BY:	DESCRIPTION:
1	05/01/17	RBM	REVISED PER PLANNING BOARD COMMENTS

<p>ENGINEER</p>	<p>TALCOTT ENGINEERING DESIGN PLLC 1 GARDNERTOWN ROAD NEWBURGH, NY 12550 (845)-569-8400 (FAX)(845)-569-4383 TALCOTTDESIGN12@GMAIL.COM</p> <p>SEPTIC TESTING & DESIGNS SUBDIVISION SKETCH ENTITLED "DOMINGUES II" CANDLESTICK HILL ROAD, SBL. 7-1-1.5 LOT# 5 OF FM# 594-08 TOWN OF NEWBURGH, ORANGE COUNTY, NY</p>		
DATE	SCALE	JOB NUMBER	SHEET NUMBER
10/27/15	N.T.S.	15082-CDS	3 OF 4

SEPTIC SYSTEM GENERAL NOTES:

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.
2. SEPTIC TANK TO BE LOCATED A MINIMUM DISTANCE OF 10 FEET FROM ANY BUILDING OR PROPERTY LINE AND 50' FROM WELL.
3. CELLAR DRAINS, ROOF DRAINS OR FOOTING DRAINS SHALL NOT BE DISCHARGED IN OR INTO THE VICINITY OF ABSORPTION FIELD.
4. IN SWIMMING POOLS, DRIVEWAYS, OR STRUCTURES THAT MAY COMPACT THE SOIL SHALL 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 LINES 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 WITHIN 100' OF ANY WATER COURSE OR 35' 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.
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 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.
19. THE DESIGN ENGINEER WILL BE REQUIRED TO CERTIFY THE COMPLETED DISPOSAL FACILITY.

STANDARD NOTES:

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:

- "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."

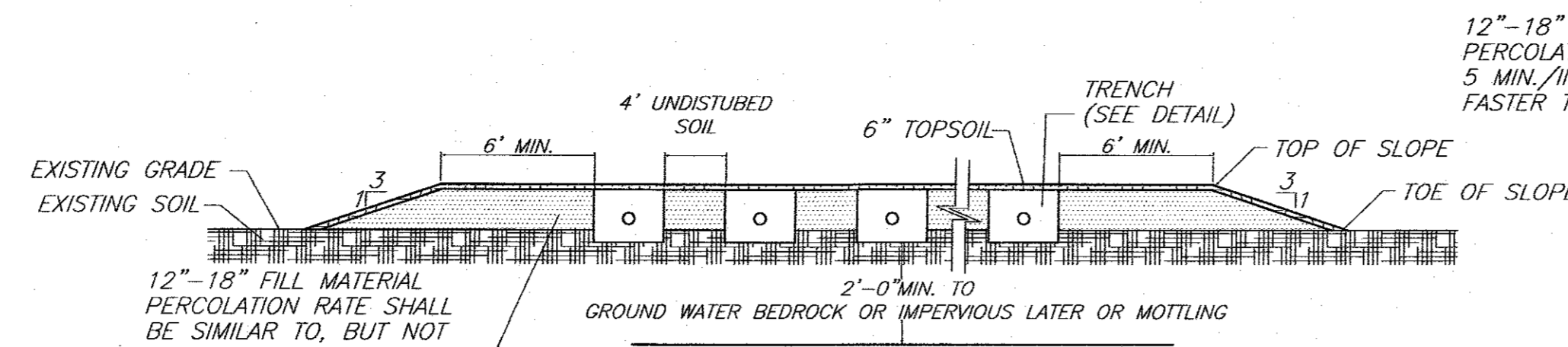
"THIS PLAN IS APPROVED AS MEETING THE APPROPRIATE AND APPLIED TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES FOR ARRANGEMENT OF SEWAGE DISPOSAL AND TREATMENT AND WATER SUPPLY FACILITIES."

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. MAXIMUM DEPTH OF USABLE FILL PLUS 6" OF TOPSOIL SHALL NOT EXCEED 30".

PUMP CHAMBER NOTES:

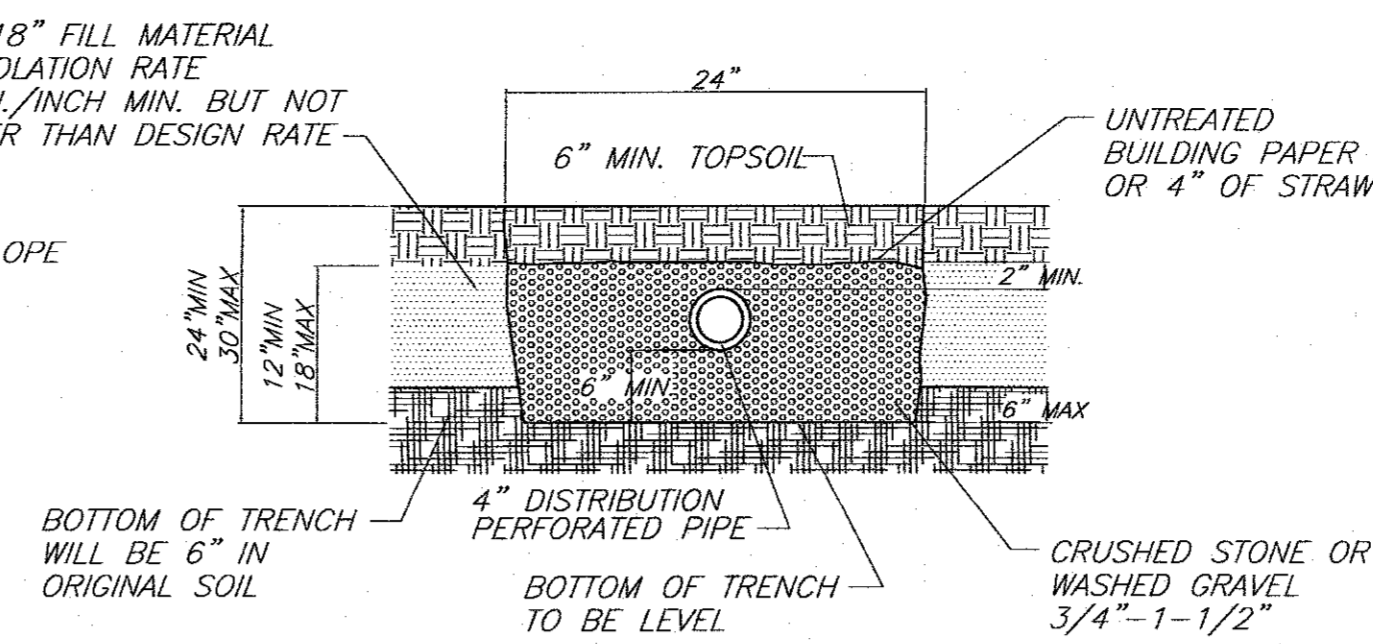
1. CONTRACTOR SHALL DETERMINE LENGTHS OF REQUIRED ELECTRICAL CABLE AND AVAILABLE VOLTAGE PRIOR TO ORDERING EQUIPMENT.
2. ALL WIRING SHALL CONFORM TO NATIONAL ELECTRICAL CODE & LOCAL CODE REQUIREMENTS.
3. THE POWER AND CONTROL WIRING SHALL BE MADE DIRECTLY TO THE CONTROL PANEL WITHOUT AND OUTSIDE SPLICES. CONTROL PANEL TO BE LOCATED INSIDE BASEMENT OF HOUSE AUDIBLE ALARMS AND FLASHING LIGHT.
4. A N.Y.S. PROFESSIONAL ENGINEER MUST CERTIFY TO THE CONSTRUCTION OF THE SYSTEM.
5. QUANTITY Dosed IS BASED UPON 75% OF 4" PIPE AND 100% OF FORCE MAIN.
6. QUANTITY STORED IS BASED UPON (1) DAYS FLOW MINIMUM.
7. AS-BUILT MUST SHOW FORCE MAIN LOCATION.



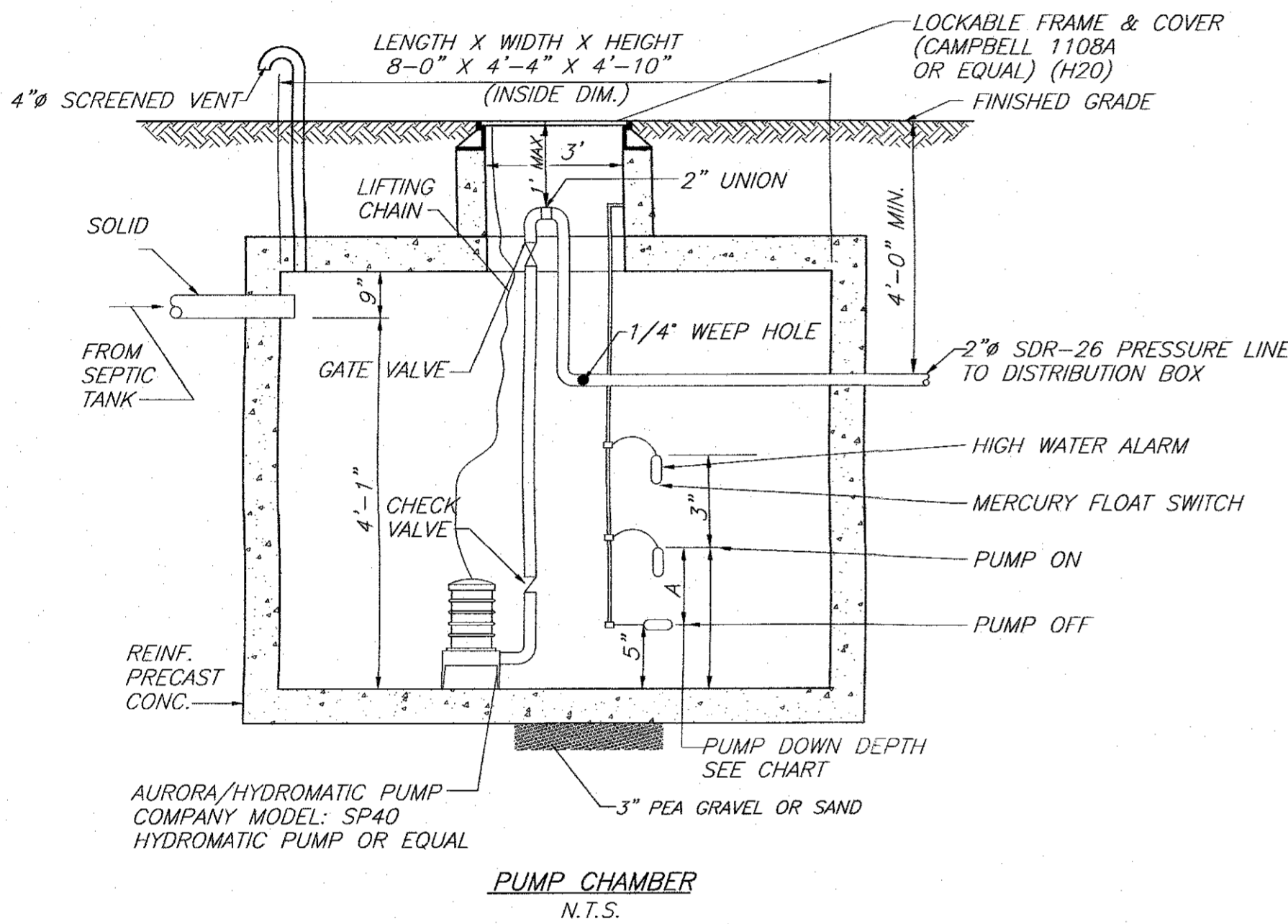
SHALLOW SYSTEM DETAIL
N.T.S.

NOTES:

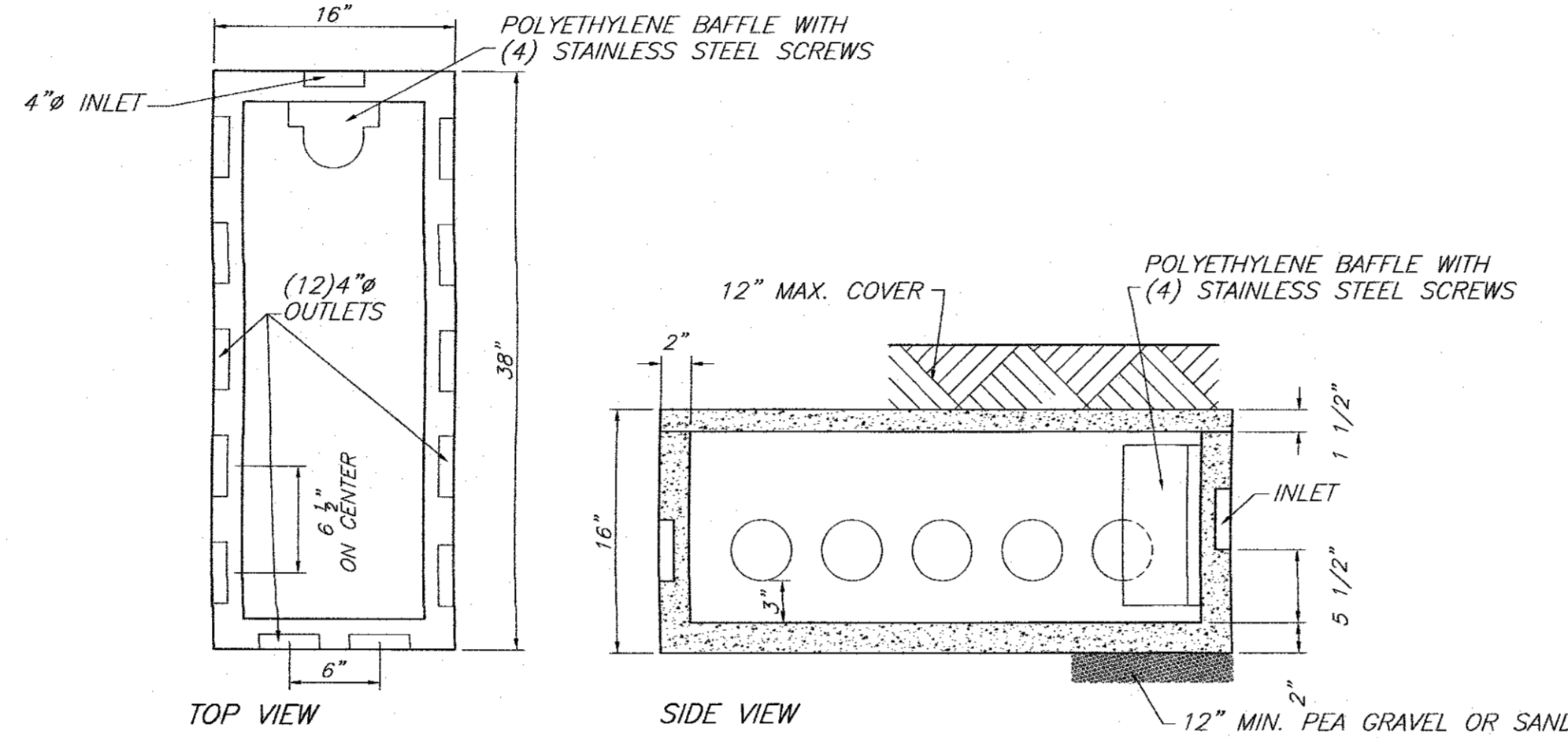
1. BOTTOM OF ALL TRENCHES SHALL NOT BE ABOVE ORIGINAL USABLE SOIL
2. MAXIMUM DEPTH OF USABLE FILL PLUS 6" OF TOPSOIL SHALL NOT EXCEED 30".
3. MAXIMUM COVER OVER TRENCH AGGREGATE SHALL NOT EXCEED 12".



SHALLOW SYSTEM TRENCH DETAIL
N.T.S.

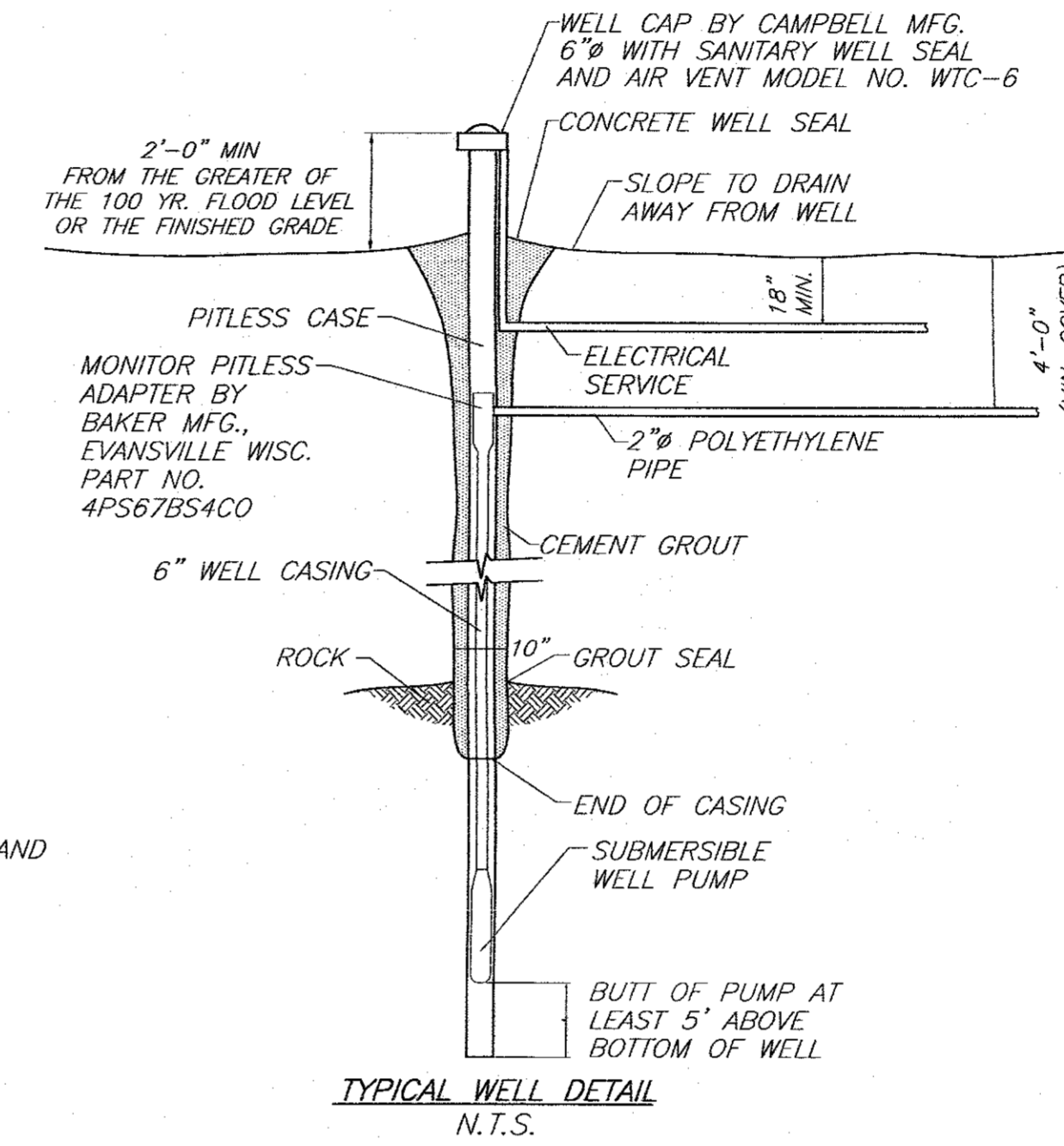


PUMP CHAMBER
N.T.S.



WOODARD'S 12 OUTLET DISTRIBUTION BOX OR EQUAL
N.T.S.

SPECIFICATIONS	
CONCRETE MINIMUM STRENGTH-	4,000 PSI AT 28 DAYS
REINFORCEMENT-	6"x6"10GA. WIRE MESH
AIR ENTRAPMENT-	5%
PIPE CONNECTION-	POLYLOC SEAL (PATENTED)
LOAD RATING-	300PSF WEIGHT= 325 LBS.



TYPICAL WELL DETAIL
N.T.S.

WELL NOTES:

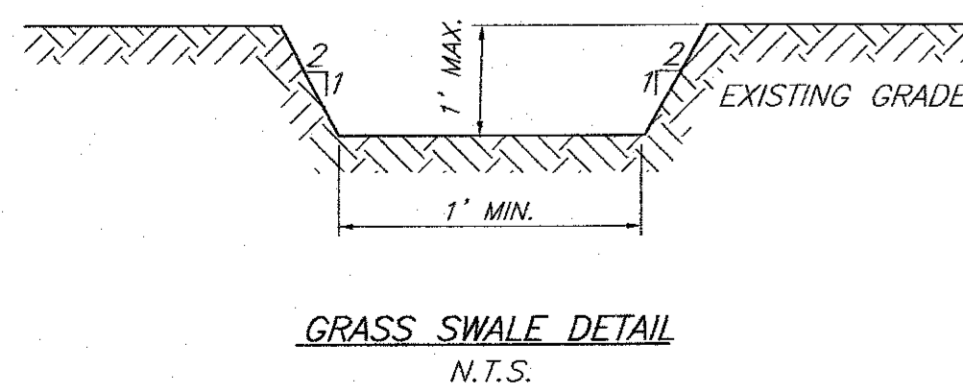
1. CASING DEPTH SHALL EXTEND AT LEAST 40' BELOW GROUND IN ANY CONDITION
2. WELL TO BE INSTALLED PER 10NYCRR PART 5
3. APPENDIX 5-B "STANDARDS FOR WATER WELLS" NOV. CURRENT EDITION
4. WELL SHALL HAVE A MIN. YIELD OF 5 GPM.
5. WELL CASING MATERIAL IS TO BE IN COMPLIANCE WITH AWWA STANDARD A-100, LATEST VERSION.

3BR
FORCE MAIN: 50 X 0.163GAL/LF = 8.15 GAL.
LATS.: 75% X 3.36LF X 0.653GAL/LF = 164.56 GAL.
172.71 GAL. TOTAL

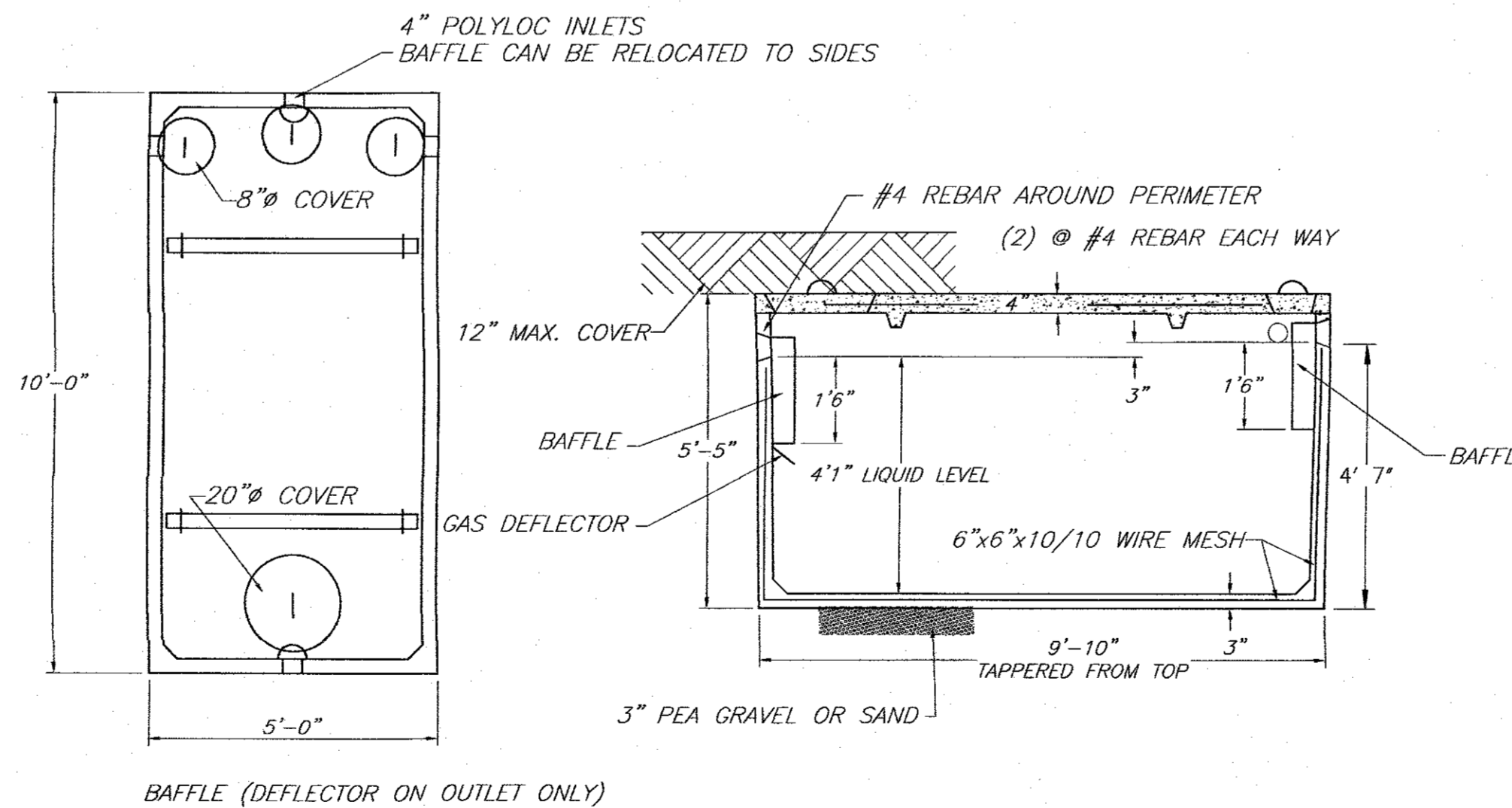
4BR
FORCE MAIN: 50 X 0.163GAL/LF = 8.15 GAL.
LATS.: 75% X 448LF X 0.653GAL/LF = 219.41 GAL.
227.56 GAL. TOTAL

STORAGE CALC.: 21.61 GALS/IN
PUMP DOWN: 8" (A)
DOSE: 172.88gal.
STORAGE DEPTH: 2'-9"
STORAGE QTY (GALS.): 713.13 GALS.
MAX. ELEV. DIFFERENTIAL: 20'

STORAGE CALC.: 21.61 GALS/IN
PUMP DOWN: 10 1/2" (A)
DOSE: 226.91gal.
STORAGE DEPTH: 2'-6 1/2"
STORAGE QTY (GALS.): 659.11 GALS.
MAX. ELEV. DIFFERENTIAL: 20'

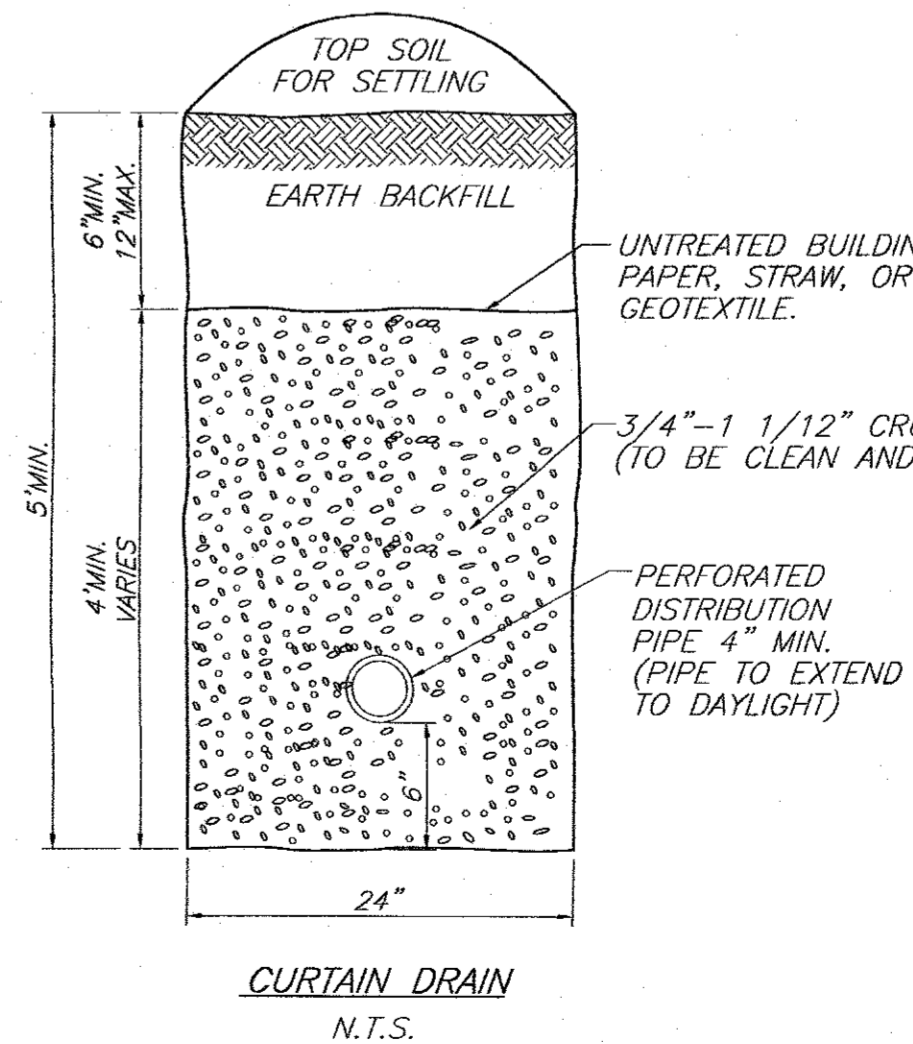


GRASS SWALE DETAIL
N.T.S.



WOODARD'S 1250gal. SEPTIC TANK OR EQUAL
N.T.S.

SPECIFICATIONS	
CONCRETE MINIMUM STRENGTH-	4,000 PSI AT 28 DAYS
REINFORCEMENT-	6"x6"10GA. WWF, #4 REBAR
AIR ENTRAPMENT-	5%
CONSTRUCTION JOINT-	BUTYL RUBBER - BASE CEMENT
PIPE CONNECTION-	POLYLOC SEAL (PATENTED)
LOAD RATING-	300PSF WEIGHT = 9,500LBS



CURTAIN DRAIN
N.T.S.

REVISIONS			
REV.	DATE	BY	DESCRIPTION
1	05/01/17	RBM	REVISED PER PLANING BOARD COMMENTS



1. INSERT A SPEED LEVELER IN THE END OF ALL OUTLET PIPES IN THE DROPBOX.
2. ROTATE UNTIL EFFLUENT ENTERS ALL OUTLETS EQUALLY.

WOODARD'S SPEED LEVELER FSL-4
N.T.S.

THIS SHEET IS INVALID AND VOID UNLESS ACCOMPANIED BY REMAINING SHEETS IN SET.

ENGINEER
TALCOTT ENGINEERING DESIGN PLLC
1 GARDNERTOWN ROAD
NEWBURGH, NY 12550
(845)-569-8400
(FAX)(845)-569-4583
TALCOTTDDESIGN12@GMAIL.COM

SEPTIC DETAILS
SUBDIVISION SKETCH ENTITLED
"DOMINGUES II"
CANDLESTICK HILL ROAD, SBL: 7-1-1.5
LOT# 5 OF FM# 594-08
TOWN OF NEWBURGH, ORANGE COUNTY, NY

DATE	SCALE	JOB NUMBER	SHEET NUMBER
10/27/15	AS NOTED	15082-CDS	4 OF 4