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RICHARD D. McGOEY, P.E. (NY & PA)

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

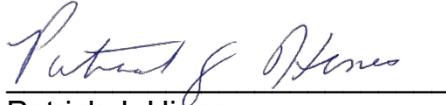
PROJECT: CHADWICK WOODS SUBDIVISION
PROJECT NO.: 19-02
PROJECT LOCATION: SECTION 14, BLOCK 1, LOT 51
REVIEW DATE: 14 MAY 2021
MEETING DATE: 20 MAY 2021
PROJECT REPRESENTATIVE: TALCOTT ENGINEERING/CHARLES BROWN

1. NYSDOT approval of the private road access and single driveway to the State highway is required.
2. In response to a previous comment, the applicant has identified a flow and pressure analysis for the proposed Lot #4 ,furthest from the Town watermain. The response identifies that 1 ¼-inch line has been proposed to this residence. This is not a standard size readily available. We are suggested 1 ½ -inch might be utilized which is more readily available for any required repairs. The water and sewer department has allowed the use of HDPE pipe on these long runs for residential service. An approval must be received from the Water Department prior to installation of the alternative pipe.
3. Additional notes updated for the Town of Newburgh should be added to the water plans. Copy of the current standard water notes have been added, any missing from the plans should be added.
4. Reference to booster pump stations Note #11 Sheet 6 of 7 should be removed from the plans.
5. The restrained joint pipe chart must be added the plans. Current water details identify thrust blocks. Thrust blocks are not permitted for the Town of Newburgh system.
6. Tapping valve and sleeve should be identified for connection to the Town’s watermain for the watermain extension.
7. Health Department approval for watermain extension with hydrants is required. The Planning Board may wish to authorize this office to prepare a letter allowing submission to the Health Department.

8. Sheet 1 of 7 does not identify a building envelope on Lot #5.

Respectfully submitted,

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

A handwritten signature in blue ink, appearing to read "Patrick J. Hines", is written over a horizontal line.

Patrick J. Hines
Principal

PJH/dns

Talcott Engineering

DESIGN, PLLC

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

May 14, 2021

Mr. John Ewasutyn, Chairman
Town of Newburgh
Planning Board
308 Gardnertown Road
Newburgh, NY 12550

Re: Resubmission Letter
Chadwick Woods Subdivision
Town Project No. 2019-02
NYS Route 300
SBL: 14-1-51
Job No. 17100-MMR

Dear John,

The following is my response to comments from Pat Hines and the Planning Board from the August 6, 2020, Planning Board meeting;

- 1) (No response necessary)
- 2) Topography on NYS Route 300, for the proposed private road, and driveway entrances is updated based on field survey by the project surveyor and proposed grading has been revised accordingly. Plans have sufficient detail for DOT submission.
- 3) The requested profile has been added to plans. We are prepared to submit the water main to the Health Department.
- 4, 5, 6) The existing 12" water main has been located on the plans and labeled 12" with 70 PSI pressure. (sheet 1). Based on my analysis of the Lot 4 with a 1" service line, at 5 GPM, pressure at the residence was 40 PSI, I therefore upsized this service line to 1 1/4".
- 7) New 6" water main will be ductile iron.
- 8) Pipe joist restraints have been added to the plans.
- 9) The hydrant is new. Gate valves are all shown. The Water Department has not yet provided details.
- 10) Hydrant drain is just below ground surface and above ground water, based on depth tests.
- 11) The Water Department will not review plans at this time.

- 12) Booster pumps are no longer proposed.
- 13) An easement on Lot 3 for Lot 4 water service is now shown.
- 14) Will be addressed by applicants attorney.
- 15) Changed as requested.
- 16) Building envelopes are shown on sheet 1.
- 17) See 9) above.
- 18) The SWPPP is currently being generated.

Attached please find 12 sets of plans, I have delivered one set to Pat Hines, one set to Dominic Cordisco, and FedExed one set to Ken Wersted.

Respectfully yours,



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

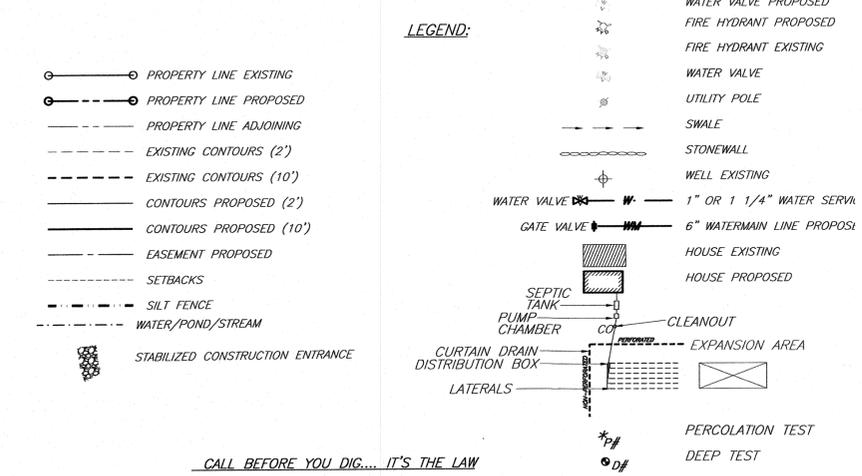
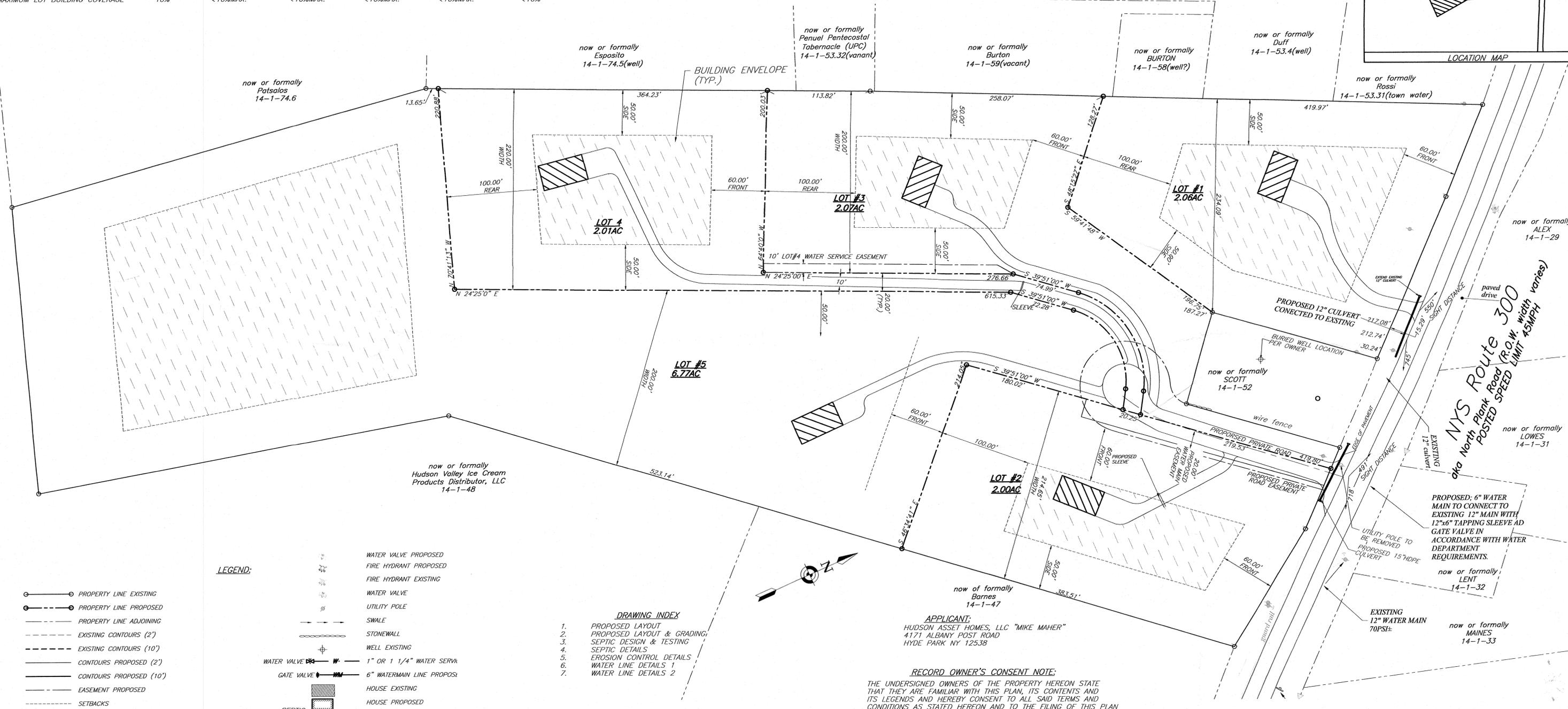
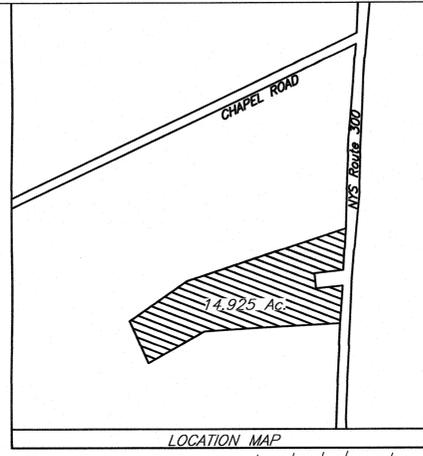
Pc; Mike Maher, Developer
~~Pat Hines w/plans~~
Dominic Cordisco, Esq. w/plans
Ken Wersted w/plans

ZONING SCHEDULE

ZONE: RR
SCHOOL DISTRICT: NEWBURGH
FIRE DISTRICT: ORANGE LAKE

REQUIRED	LOT # 1 PROPOSED	LOT # 2 PROPOSED	LOT # 3 PROPOSED	LOT # 4 PROPOSED	LOT # 5 PROPOSED	
MINIMUM LOT AREA	2 AC.	2.06 AC.	2.00 AC.	2.07sf.	2.01 AC.	6.77 AC.
MINIMUM YARDS (feet)						
FRONT	60'	60'MIN.	60'MIN.	60'MIN.	60'MIN.	60'MIN.
REAR	100'	100'MIN.	100'MIN.	100'MIN.	100'MIN.	100'MIN.
SIDE						
ONE	50'	50'MIN.	50'MIN.	50'MIN.	50'MIN.	50'MIN.
BOTH	100'	100'MIN.	100'MIN.	100'MIN.	100'MIN.	100'MIN.
MINIMUM LOT WIDTH (feet)	200'	234'	214'	200'	201'	200'
MINIMUM LOT DEPTH (feet)	300'	393'	383'	355'	349'	1033'
MAXIMUM LOT SURFACE COVERAGE (%)	10%	10%MAX.	10%MAX.	10%MAX.	10%MAX.	30%MAX.
MAXIMUM HEIGHT	35'	35'MAX.	35'MAX.	35'MAX.	35'MAX.	35'MAX.
MINIMUM BUILDABLE AREA	15,000sf.	24,498sf.	27,486SF.	25,390	21,351sf	6,294sf
MAXIMUM LOT BUILDING COVERAGE	10%	<10%MAX.	<10%MAX.	<10%MAX.	<10%MAX.	<10%

- 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 PLAN PRIOR TO CONSTRUCTION.
 - AN ASBUILT SURVEY AND CERTIFICATION SHALL BE PROVIDED TO THE TOWN OF NEWBURGH CODE ENFORCEMENT DEPARTMENT PRIOR TO ISSUANCE OF A CERTIFICATION OF OCCUPANCY.



- DRAWING INDEX**
- PROPOSED LAYOUT
 - PROPOSED LAYOUT & GRADING
 - SEPTIC DESIGN & TESTING
 - SEPTIC DETAILS
 - EROSION CONTROL DETAILS
 - WATER LINE DETAILS 1
 - WATER LINE DETAILS 2

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 IN MARCH 2018.

SIGNATURE: JONATHAN N. MILLEN, L.L.S.

APPLICANT:
HUDSON ASSET HOMES, LLC "MIKE MAHER"
4171 ALBANY POST ROAD
HYDE PARK NY 12538

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.

RECORD OWNER'S SIGNATURE: HUDSON ASSET HOMES, LLC
4171 ALBANY POST ROAD
HYDE PARK NY 12538

REVISIONS

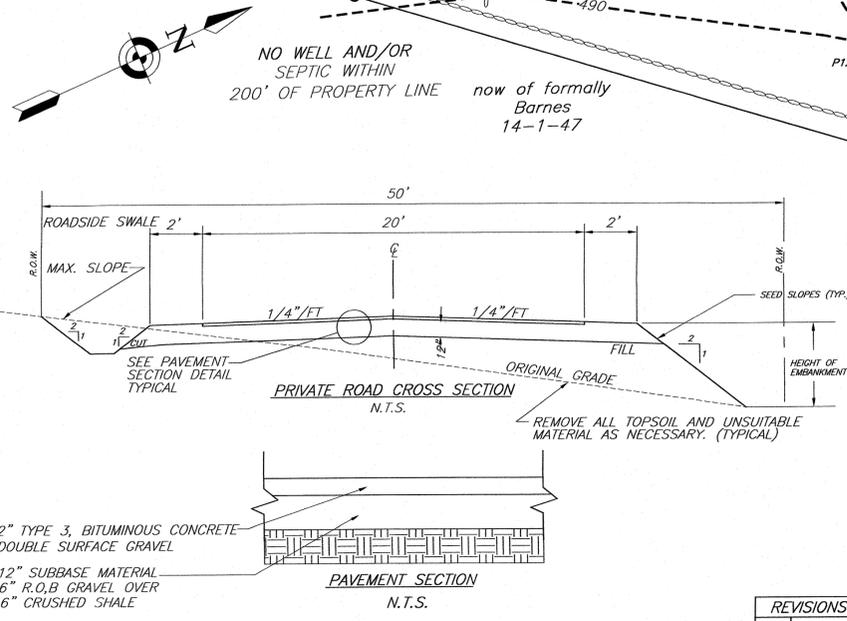
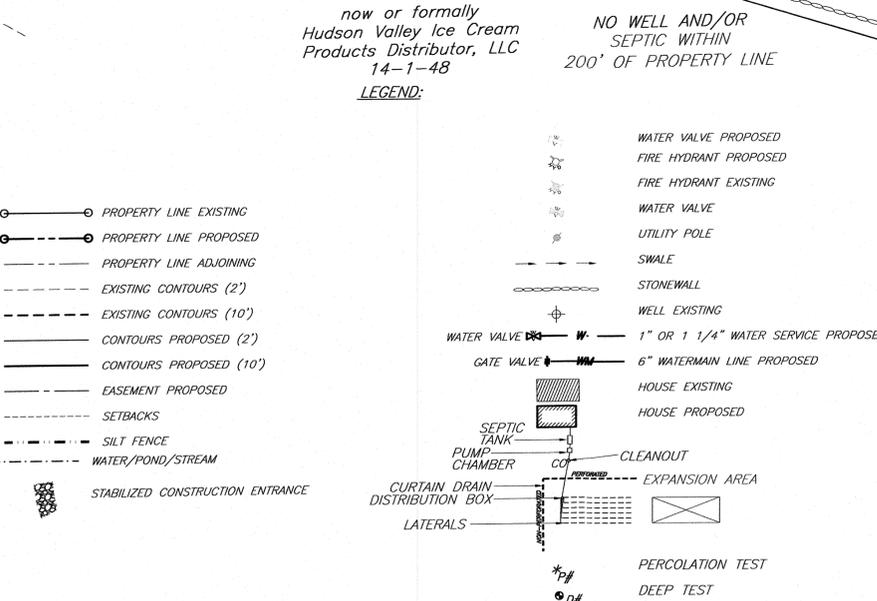
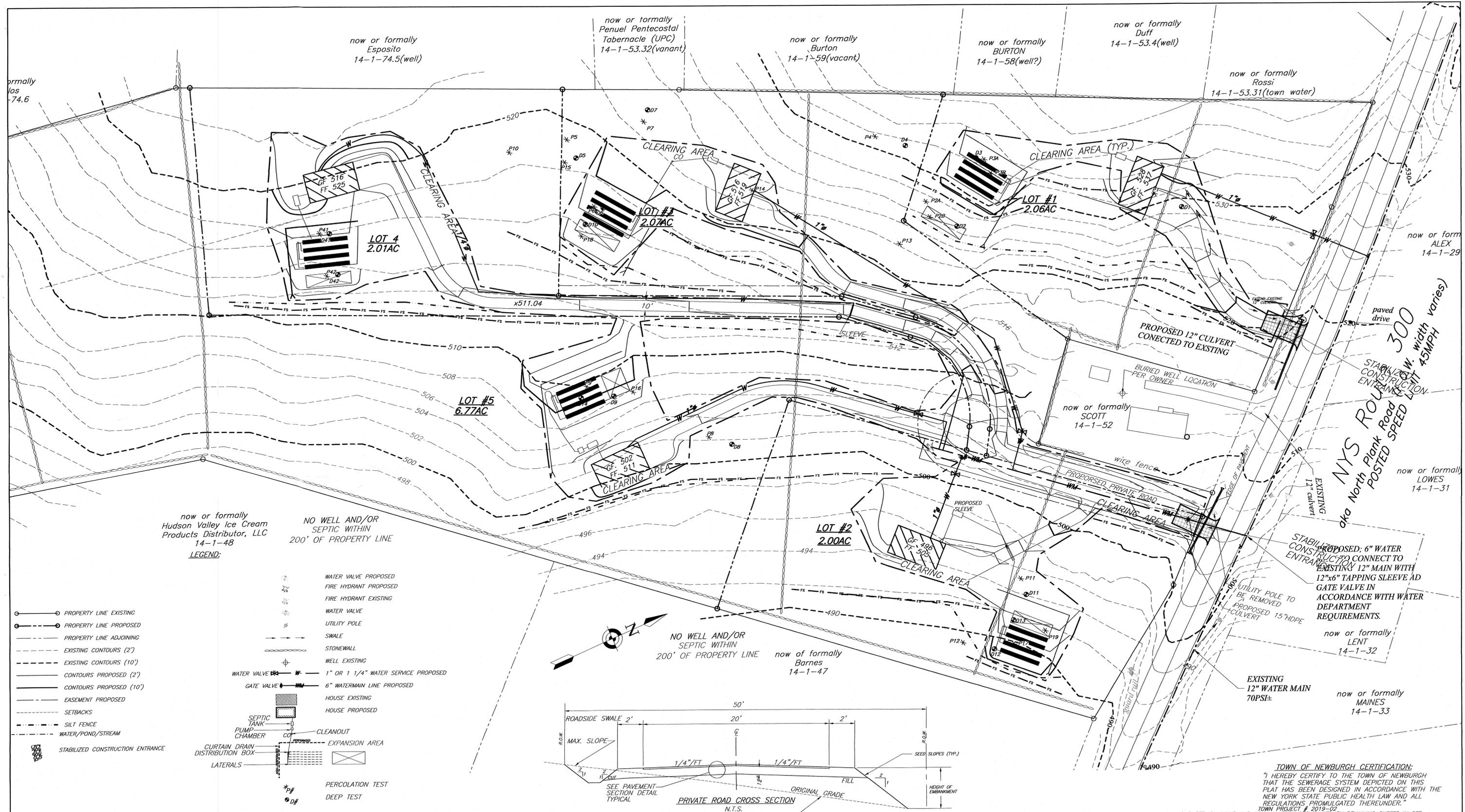
REV.	DATE	BY	DESCRIPTION
2	03/21/21	RBM	REVISED PER BOARD PB COMMENTS
1	06/18/20	RBM	REVISED PER BOARD PB COMMENTS

TOWN PROJECT # 2019-02
THIS SHEET IS INVALID AND VOID UNLESS ACCOMPANIED BY REMAINING SHEETS IN SET.

SURVEYOR	ENGINEER	TALCOTT ENGINEERING DESIGN PLLC
JONATHAN N. MILLEN, L.L.S.	CHARLES T. BROWN, P.E.	GARDINERTOWN ROAD NEWBURGH, NY 12550 (845)-569-8400 (FAX)(845)-569-4583 TALCOTTDESIGN12@GMAIL.COM
PROPOSED LAYOUT		
PROPOSED SUBDIVISION ENTITLED CHADWICK WOODS		
ROUTE 300, SBL 14-1-51		
TOWN OF NEWBURGH, ORANGE COUNTY, NY		
DATE: 01/09/19	SCALE: 1"=50'	JOB NUMBER: 17100-MMR
		SHEET NUMBER: 1 OF 7

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 OF NEWBURGH CERTIFICATION:
 I HEREBY CERTIFY TO THE TOWN OF NEWBURGH THAT THE SEWERAGE SYSTEM DEPICTED ON THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE NEW YORK STATE PUBLIC HEALTH LAW AND ALL REGULATIONS PROMULGATED THEREUNDER.
 TOWN PROJECT # 2019-02
 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
 TALCOTTDESIGN12@GMAIL.COM

PROPOSED LAYOUT & GRADING

PROPOSED SUBDIVISION ENTITLED CHADWICK WOODS

ROUTE 300, SBL 14-1-51

TOWN OF NEWBURGH, ORANGE COUNTY, NY

DATE: 01/09/19 SCALE: 1" = 40' JOB NUMBER: 71700-MMR SHEET NUMBER: 2 OF 7

REV.	DATE	BY	DESCRIPTION
2	05/12/21	RBM	REVISED PER BOARD PB COMMENTS
1	06/18/20	RBM	REVISED PER BOARD PB COMMENTS

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

LOT #	LOT 1	LOT 2	LOT 3	LOT 4	LOT 5
	<p>D1 60" DEEP 04/24/17 0-6" TOP SOIL 6"-28" CLAY LOAM W/GRAVEL 28"-60" CLAY LOAM W/GRAVEL "DAMP" NO ROCK, WATER, OR MOTTLING</p> <p>D2 78" DEEP 04/24/17 0-6" TOP SOIL 6-32" CLAY LOAM 32-78" CLAY LOAM "DAMP" NO ROCK, WATER, OR MOTTLING</p> <p>D3 88" DEEP 04/24/17 0-6" TOP SOIL 6"-55" CLAY LOAM 55"-88" CLAY LOAM "DAMP" NO ROCK, NO WATER, MOTTLING @ 55"</p>	<p>D11 72" DEEP 04/24/17 0-6" TOP SOIL 6"-72" CLAY LOAM NO ROCK, WATER @ 50", NO MOTTLING</p> <p>D12 72" DEEP 04/24/17 0-6" TOP SOIL 6"-72" CLAY LOAM NO ROCK, WATER @ BOTTOM, MOTTLING @ 46"</p> <p>D13 30" DEEP 07/01/19 0-6" TOP SOIL 6"-30" CLAY LOAM NO ROCK, WATER @ BOTTOM, NO MOTTLING</p>	<p>D4 84" DEEP 04/24/17 0-6" TOP SOIL 6"-42" CLAY LOAM 42"-84" CLAY LOAM W/SMALL STONES "DAMP" NO ROCK, WATER, OR MOTTLING</p> <p>D5 60" DEEP 04/24/17 0-6" TOP SOIL 6"-60" CLAY LOAM NO ROCK, WATER @ 12", MOTTLING @ 12"</p> <p>D6 60" DEEP 4/24/17 0-6" TOP SOIL 6-40" CLAY LOAM 40-60" WET CLAY LOAM W/GRAVEL NO ROCK, WATER @ 40", MOTTLING @ 40"</p> <p>D7 60" DEEP 4/24/17 0-12" TOP SOIL 12-60" WET CLAY LOAM NO ROCK, WATER @ 24", MOTTLING @ 24"</p>	<p>D41 72" DEEP 04/24/17 0-6" TOP SOIL 6"-24" CLAY LOAM W/GRAVEL 24"-72" CLAY LOAM NO ROCK, WATER SEEEAGE @ 30"</p> <p>D42 72" DEEP 04/24/17 0-6" TOP SOIL 6"-24" CLAY LOAM W/GRAVEL 24"-72" CLAY LOAM NO ROCK, WATER SEEEAGE @ 30"</p>	<p>D9 60" DEEP 04/24/17 0-6" TOP SOIL 6"-60" CLAY LOAM W/STONES NO ROCK, WATER @ 40", NO MOTTLING</p> <p>D8 60" DEEP 04/24/17 0-6" TOP SOIL 6"-60" WET CLAY LOAM NO ROCK, WATER @ 28", MOTTLING @ 28"</p> <p>D14 30" DEEP 04/24/17 0-6" TOP SOIL 6"-30" CLAY LOAM NO ROCK, WATER, OR MOTTLING</p>

DEEP TEST DATA:

PERCOLATION DATA:

SEPTIC DESIGN CRITERIA:

* P1 15" DEEP 04/24/17

FINISH	3:55	4:22	4:50
START	3:11	3:55	4:23
TIME	:24	:27	:27

STABILIZED PERCOLATION RATE: 27 MINUTES /INCH

* P2A 12" DEEP 06/15/17

FINISH	2:20	2:38	3:20	4:05
START	2:12	2:21	2:39	3:22
TIME	:08	:17	:41	:43

STABILIZED PERCOLATION RATE: 43 MINUTES /INCH

* P2B 24" DEEP 06/15/17

FINISH	1:10	1:47	2:32	3:29	4:49
START	12:52	1:11	1:48	2:35	3:30
TIME	:18	:36	:44	:54	:54

STABILIZED PERCOLATION RATE: 54 MINUTES /INCH

* P3A 12" DEEP 06/15/17

FINISH	2:21	2:30	2:39
START	2:14	2:22	2:31
TIME	:07	:08	:08

STABILIZED PERCOLATION RATE: 8 MINUTES /INCH

* P3B 24" DEEP 06/15/17

FINISH	1:24	2:03	2:44	3:27	4:18
START	12:55	1:25	2:04	2:38	3:29
TIME	:29	:38	:40	:49	:49

STABILIZED PERCOLATION RATE: 49 MINUTES /INCH

* P11 12" DEEP 11/08/17

FINISH	2:39	3:45	4:51
START	1:52	2:39	3:45
TIME	:47	:56	:56

STABILIZED PERCOLATION RATE: 66 MINUTES /INCH

* P12 12" DEEP 11/08/17

FINISH	1:45	3:40	4:40
START	2:40	2:40	3:40
TIME	:55	:60	:60

STABILIZED PERCOLATION RATE: 60 MINUTES /INCH

* P17 12" DEEP 07/03/18

FINISH	3:41	3:47	3:54
START	3:39	3:41	3:48
TIME	:02	:06	:06

STABILIZED PERCOLATION RATE: 6 MINUTES /INCH

* P19 12" DEEP 07/01/19

FINISH	3:02	3:17	3:32
START	2:49	3:03	3:18
TIME	:13	:14	:14

STABILIZED PERCOLATION RATE: 14 MINUTES /INCH

* P4 16" DEEP 06/15/17

FINISH	3:42	4:10	4:40
START	3:29	3:43	4:13
TIME	:13	:27	:27

STABILIZED PERCOLATION RATE: 27 MINUTES /INCH

* P5 12" DEEP 06/16/17

FINISH	2:27	3:05	3:53	4:40
START	2:20	2:30	3:08	3:55
TIME	:07	:35	:45	:45

STABILIZED PERCOLATION RATE: 45 MINUTES /INCH

* P6 12" DEEP 06/16/18

FINISH	12:40	1:30	2:18
START	12:20	12:43	1:31
TIME	:20	:47	:47

STABILIZED PERCOLATION RATE: 47 MINUTES /INCH

* P7 12" DEEP 06/16/18

FINISH	10:28	11:21	12:15
START	10:17	10:29	11:25
TIME	:11	:50	:50

STABILIZED PERCOLATION RATE: 50 MINUTES /INCH

* P13 12" DEEP 07/03/18

FINISH	11:26	11:30	11:35
START	11:24	11:26	11:31
TIME	:02	:04	:04

STABILIZED PERCOLATION RATE: 4 MINUTES /INCH

* P14 12" DEEP 07/03/18

FINISH	12:02	12:30	12:57
START	11:51	12:04	12:31
TIME	:11	:26	:26

STABILIZED PERCOLATION RATE: 26 MINUTES /INCH

* P15 12" DEEP 07/03/18

FINISH	1:35	1:49	2:02
START	1:24	1:37	1:50
TIME	:11	:12	:12

STABILIZED PERCOLATION RATE: 12 MINUTES /INCH

* P18 12" DEEP 07/01/19

FINISH	3:00	3:17	3:34
START	2:45	3:01	3:18
TIME	:15	:16	:16

STABILIZED PERCOLATION RATE: 16 MINUTES /INCH

* P10 12" DEEP 11/08/17

FINISH	12:34	12:44	1:57	4:07
START	11:40	1:40	2:57	3:07
TIME	:54	:58	:60	:60

STABILIZED PERCOLATION RATE: 60 MINUTES /INCH

* P41 12" DEEP 12/20/18

FINISH	1:31	2:29	3:27
START	12:47	1:32	2:30
TIME	:44	:57	:57

STABILIZED PERCOLATION RATE: 57 MINUTES /INCH

* P42 12" DEEP 12/20/18

FINISH	1:12	1:20	1:38	2:02	2:49
START	1:05	1:12	1:21	1:38	2:14
TIME	:07	:08	:17	:24	:25

STABILIZED PERCOLATION RATE: 25 MINUTES /INCH

* P8 12" DEEP 07/20/17

FINISH	12:41	1:05	3:12
START	1:03	1:50	3:57
TIME	:22	:45	:45

STABILIZED PERCOLATION RATE: 45 MINUTES /INCH

* P9 12" DEEP 07/20/17

FINISH	12:05	12:57	1:48	2:39
START	11:30	12:11	12:48	1:49
TIME	:35	:46	:50	:50

STABILIZED PERCOLATION RATE: 50 MINUTES /INCH

* P16 12" DEEP 07/03/18

FINISH	2:36	2:44	2:53
START	2:33	2:37	2:46
TIME	:03	:07	:07

STABILIZED PERCOLATION RATE: 7 MINUTES /INCH

****USED FOR DESIGN**

SEPTIC SYSTEM GENERAL NOTES:

STANDARD NOTES:

- 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 AND 50' FROM WELL.
- CELLAR DRAINS, ROOF DRAINS OR FOOTING DRAINS SHALL NOT BE DISCHARGED IN OR INTO THE VICINITY OF ABSORPTION FIELD.
- NO SWIMMING POOLS, DRIVEWAYS, OR STRUCTURES THAT MAY COMPACT THE SOIL SHALL BE CONSTRUCTED OVER ANY PORTION OF THE ABSORPTION FIELD.
- NO TRENCHES TO BE INSTALLED IN WET SOIL.
- RAKE SIDES AND BOTTOM OF TRENCH PRIOR TO PLACING GRAVEL IN ABSORPTION TRENCH.
- GROUT ALL PIPE PENETRATIONS TO CONC. SEPTIC TANK & DISTRIBUTION BOX.
- DISTRIBUTION LINES ARE TO BE CAPPED.
- THE PERIMETER OF THE ABSORPTION FIELD SHOULD BE GRADED TO DIVERT SURFACE WATER.
- ALL NEWLY DISTURBED AREAS SHALL BE IMMEDIATELY STABILIZED UPON CONSTRUCTION COMPLETION USING GRASS SEED & MULCH.
- NO SEWAGE SYSTEM SHALL BE PLACED WITHIN 100' OF ANY WATER COURSE OR 35' DRAINAGE DITCH.
- ALL LAUNDRY AND KITCHEN WASTES SHALL BE DISCHARGED INTO SEWAGE SYSTEM.

- 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.
- THE DESIGN AND LOCATION OF THE SANITARY FACILITIES SHALL NOT BE CHANGED WITHOUT RESUBMISSION FOR APPROVAL.
- 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.
- 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.
- 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.
- 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.
- THE DESIGN ENGINEER WILL BE REQUIRED TO CERTIFY THE COMPLETED DISPOSAL FACILITY.
- AN ASBUILT SURVEY AND CERTIFICATION SHALL BE PROVIDED TO THE TOWN OF NEWBURGH CODE ENFORCEMENT DEPARTMENT PRIOR TO ISSUANCE OF A CERTIFICATION OF OCCUPANCY.

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.

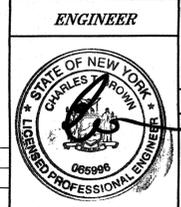
ALL PROPOSED WELLS AND SERVICE LINES ON THIS PLAN ARE ACCESSIBLE FOR INSTALLATION AND PLACEMENT.

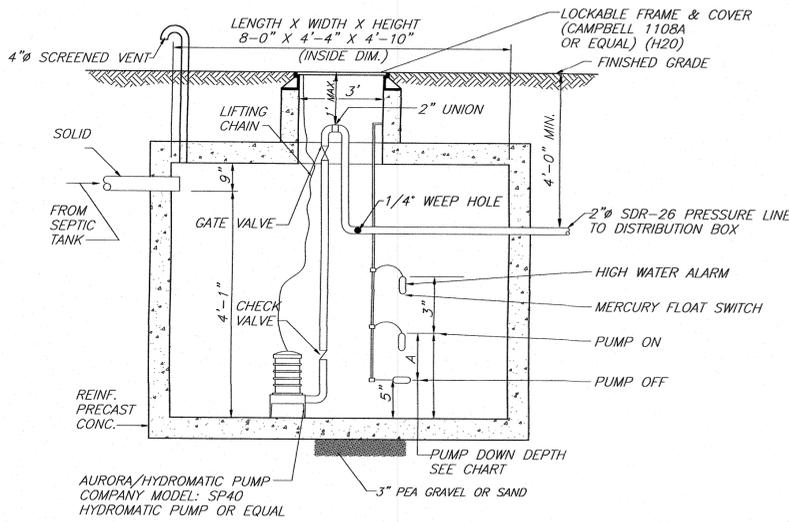
TRENCH BOTTOMS TO BE SET LEVEL AND PARALLEL TO EXISTING CONTOURS. MAXIMUM DEPTH OF USABLE FILL PLUS 6" OF TOPSOIL SHALL NOT EXCEED 30".

* SEWAGE DISPOSAL SYSTEMS MUST BE CONSTRUCTED USING THE "ELJEN B43 GSF TRENCH" AS MANUFACTURED BY ELJEN SYSTEMS. SEE ELJEN SYSTEMS NOTES AND DETAILS ON SHEET 4

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

REV.	DATE	BY	DESCRIPTION
3	05/21/21	RBM	REVISED PER BOARD PB COMMENTS
2	03/12/21	RBM	REVISED PER BOARD PB COMMENTS
1	06/18/20	RBM	REVISED PER BOARD PB COMMENTS

	ENGINEER TALCOTT ENGINEERING DESIGN PLLC 1 GARDNERTOWN ROAD NEWBURGH, NY 12550 (845)-569-8400 (FAX)(845)-569-4583 TALCOTTDESIGN12@GMAIL.COM
	SEPTIC DESIGN & TESTING PROPOSED SUBDIVISION ENTITLED CHADWICK WOODS ROUTE 300, SBL 14-1-51 TOWN OF NEWBURGH, ORANGE COUNTY, NY
DATE: 01/11/19 SCALE: N.T.S. JOB NUMBER: 17100- MMR SHEET NUMBER: 3 OF 7	



PUMP CHAMBER
N.T.S.

PUMP CHAMBER NOTES:

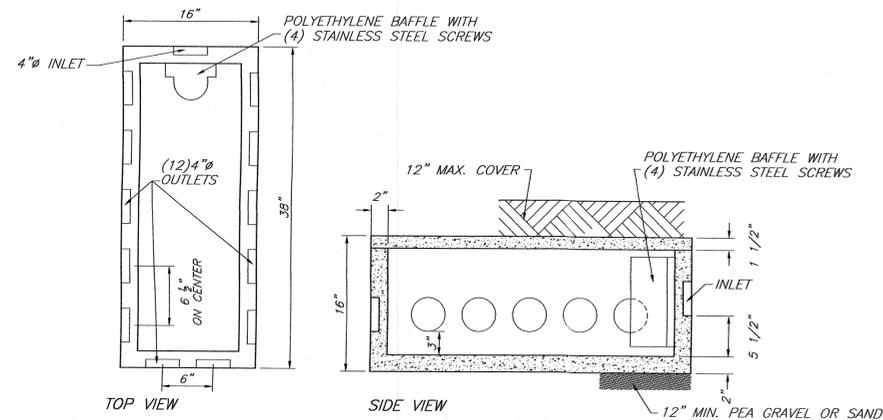
1. CONTRACTOR SHALL DETERMINE LENGTHS OF REQUIRED ELECTRICAL CABLE AND AVAILABLE VOLTAGE PRIOR TO ORDERING EQUIPMENT.
2. ALL WIRING SHALL CONFORM TO NATIONAL ELECTRICAL CODE & LOCAL CODE REQUIREMENTS.
3. THE POWER AND CONTROL WIRING SHALL BE MADE DIRECTLY TO THE CONTROL PANEL WITHOUT AND OUTSIDE SPLICES. 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 3.5GAL/ELJEN UNIT AND 100% OF FORCE MAIN.
6. QUANTITY STORED IS BASED UPON (1) DAYS FLOW MINIMUM.
7. AS-BUILT MUST SHOW FORCE MAIN LOCATION.

LOT 5 PUMP CHAMBER DATA

PUMP DOWN DEPTH: 7 1/2"(A)
STORAGE CALC.: 21.61 GAL/SIN
STORAGE DEPTH: 2'-9 1/2"
DOSE QTY (GALS.): 162.08 GALS.
STORAGE QTY (GALS.): 723.84 GALS.
MAX. ELEV. DIFFERENTIAL: 30'

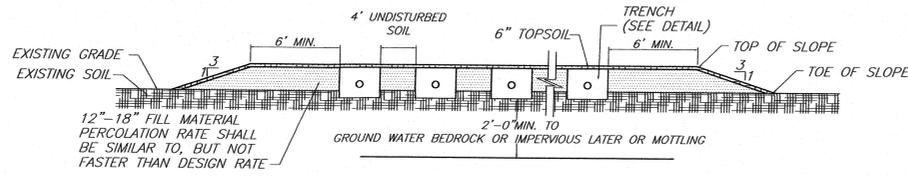
LOT 5 DOSING QUANTITY

FORCE MAIN: 75' X 0.163GAL/LF = 12.23 GAL.
ELJEN LATS: 44@3.5 = 154.00 GAL.
166.23 GAL. TOTAL



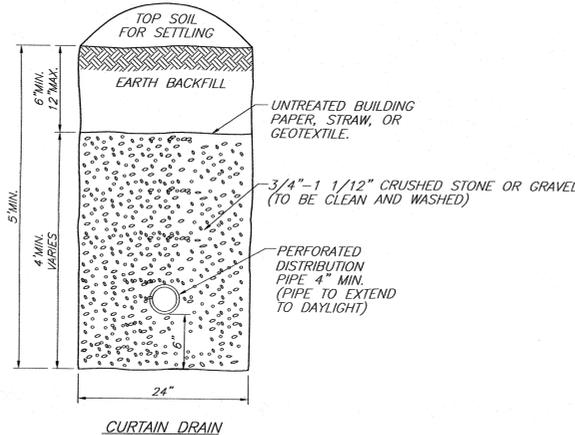
WOODARD'S 12 OUTLET DISTRIBUTION BOX OR EQUAL
N.T.S.

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



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".

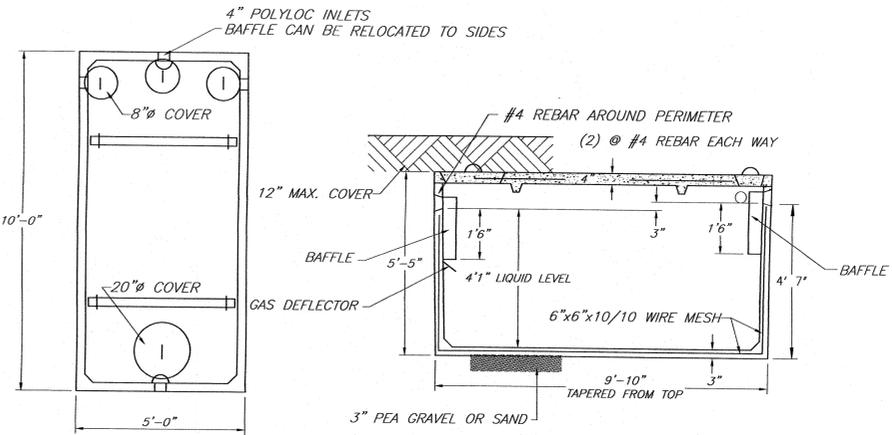


CURTAIN DRAIN



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

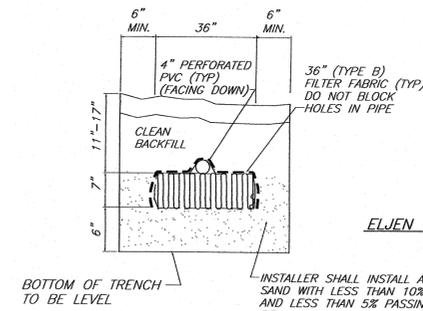
WOODARD'S SPEED LEVELER FSL-4
N.T.S.



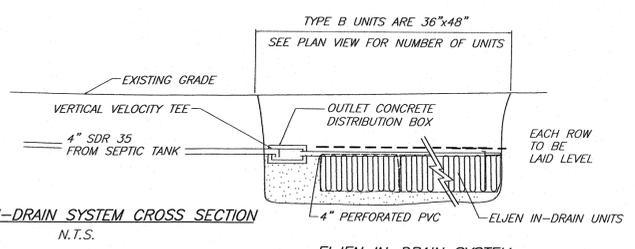
WOODARD'S 1250gal SEPTIC TANK OR EQUAL
N.T.S.

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-	POLYLOK SEAL (PATENTED)
LOAD RATING-	300PSF WEIGHT = 9,500LBS

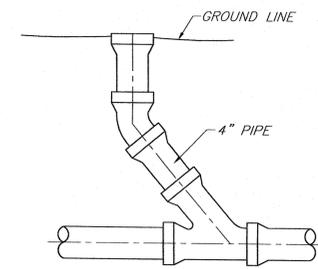
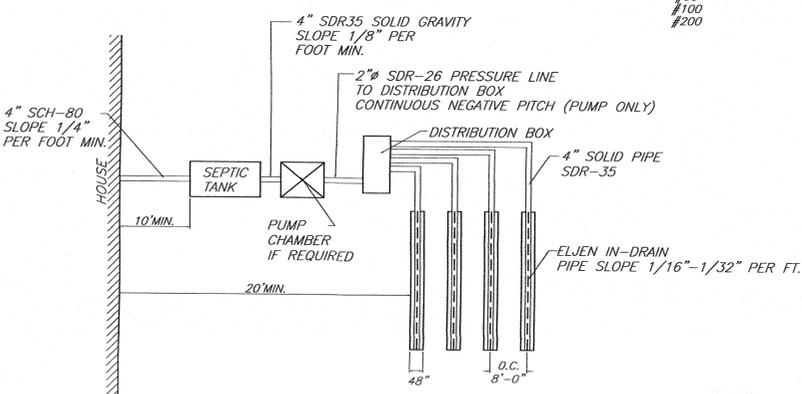
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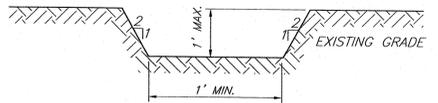
ELJEN IN-DRAIN SYSTEM CROSS SECTION
N.T.S.



SIEVE SIZE	SIEVE SQUARE OPENING SIZE	SPECIFICATIONS PERCENT PASSING (WET SIEVE)
0.375"	9.5mm	100.0-100.0
#4	4.75mm	95.0-100.0
#8	2.36mm	80.0-100.0
#16	1.18mm	50.0-85.0
#30	600um	25.0-60.0
#50	300um	5.0-30.0
#100	150um	<10.0
#200	75um	<5.0



TO BE INSTALLED BEFORE BEND AT ALL BEND LOCATIONS AND AT EVERY 75' OF STRAIGHT PIPE. (DO NOT USED WITH PUMP CHAMBER)

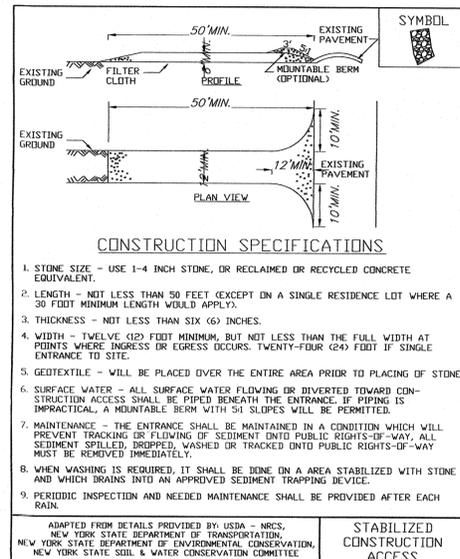
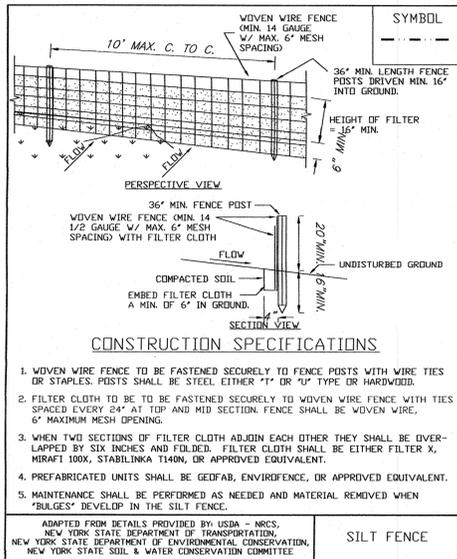


THIS SHEET IS INVALID AND VOID UNLESS ACCOMPANIED BY REMAINING SHEETS IN SET.

	ENGINEER	TALCOTT ENGINEERING DESIGN PLLC 1 GARDNERTOWN ROAD NEWBURGH, NY 12550 (845)-569-8400 (TAX)(845)-569-4583 TALCOTTDESIGN12@GMAIL.COM	
	SEPTIC DETAILS PROPOSED SUBDIVISION ENTITLED CHADWICK WOODS ROUTE 300, SBL 14-1-51 TOWN OF NEWBURGH, ORANGE COUNTY, NY		
DATE	SCALE	JOB NUMBER	SHEET NUMBER
01/11/19	N.T.S.	17100- MMR	4 OF 7

CONSTRUCTION SCHEDULE FOR EACH LOT

1. OBTAIN PLAN APPROVAL AND OTHER APPLICABLE PERMITS.
2. FLAG THE WORK LIMITS
3. HOLD PRE-CONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO STARTING CONSTRUCTION.
4. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT.
5. INSTALL SILT FENCE
6. COMPLETE SITE CLEARING
7. ROUGH GRADE SITE, STOCKPILE TOPSOIL, INSTALL DRIVEWAY CULVERT
8. EXCAVATE FOR FOUNDATION
9. BUILD FOUNDATION
10. FRAME HOUSE
11. BACKFILL FOUNDATION
12. FINISH THE SLOPES AROUND BUILDINGS AS SOON AS ROUGH GRADING IS COMPLETE. LEAVE THE SURFACE SLIGHTLY ROUGHENED AND VEGETATE AND MULCH IMMEDIATELY.
13. COMPLETE FINAL GRADING FOR DRIVEWAY AND BUILDING.
14. AFTER THE SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS.
15. ESTIMATED TIME BEFORE FINAL STABILIZATION--9 MONTHS.



VEGETATION REQUIREMENTS

- 1.) SITE PREPARATION
 - A. INSTALL NEEDED WATER AND EROSION CONTROL MEASURES AND BRING AREA TO BE SEED TO DESIRED GRADES USING A MINIMUM OF 4 IN. TOPSOIL.
 - B. PREPARE SEEDBED BY LOOSENING SOIL TO A DEPTH OF 4-6 INCHES.
 - C. LIME TO A PH OF 6.5
 - E. FERTILIZE AS PER SOIL TEST OR, IF FERTILIZER MUST BE APPLIED BEFORE SOIL TEST RESULTS ARE RECEIVED, APPLY 850 POUNDS OF 5-10-10 OR EQUIVALENT PER ACRE (20 LBS/1,000 SQ. FT.)
 - F. INCORPORATE LIME AND FERTILIZER IN TOP 2-4 INCHES OF TOPSOIL.
 - G. SMOOTH. REMOVE ALL STONES OVER 1 INCH IN DIAMETER, STICKS, AND FOREIGN MATTER FROM THE SURFACE. FIRM THE SEEDBED.
- 2.) PLANTING--SUNNY LOCATION.

USE A CULTIPACKER TYPE SEEDER IF POSSIBLE. SEED TO A DEPTH OF 1/8 TO 1/4 INCH. IF SEED IS TO BE BROADCAST, CULTIPACK OR ROLL AFTER SEEDING. IF HYDROSEEDING, LIME AND FERTILIZER MAY BE APPLIED THROUGH THE SEEDER AND ROLLING IS NOT PRACTICAL. SEED USING THE FOLLOWING MIX AND RATES

GRASS SEEDING CHART

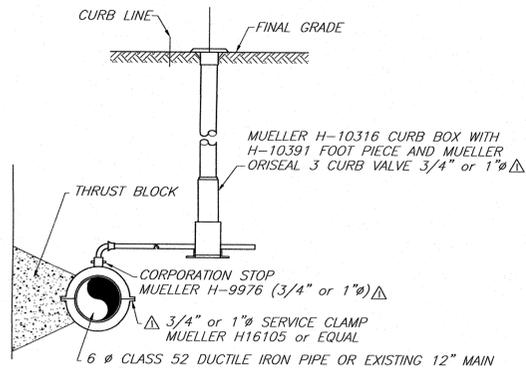
SPECIES (% BY WEIGHT)	LBS./1,000SQ.FT	LBS./ACRE
65% KENTUCKY BLUEGRASS BLEND	2.0-2.6	85-114
20% PERENNIAL RYEGRASS	0.6-0.8	26-35
15% FINE FENSUCUE	0.4-0.6	19-26
	3.0-4.0	130-175
100% TALL FENSUCUE, TURF-TYPE, FINE LEAF	3.4-4.6	150-200

- 3.) WHEN USING THE CULTIPACKER OR BROADCAST SEED METHOD, MULCH USING SMALL GRAIN STRAW, APPLIED AT A RATE OF 2 TONS PER ACRE, AND ANCHOR WITH A NETTING OR TACKIFIER. HYDROSEED APPLICATIONS SHOULD INCLUDE MULCH, FERTILIZER AND SEED. COMMON WHITE CLOVER CAN BE ADDED TO MIXTURES AT THE RATE OF 1-2 LBS/ACRE TO HELP MAINTAIN GREEN COLOR DURING THE DRY SUMMER PERIOD. HOWEVER, THEY WILL NOT WITHSTAND HEAVY TRAFFIC. FERTILIZING--FIRST YEAR, (SPRING SEEDLINGS) THREE TO FOUR WEEKS AFTER GERMINATION APPLY 1 POUND NITROGEN/1,000 SQUARE FEET USING A COMPLETE FERTILIZER WITH A 2-1-1 OR 4-1-3 RATIO OR AS RECOMMENDED BY SOIL TEST RESULTS. FOR SUMMER AND EARLY FALL SEEDINGS, APPLY AS ABOVE UNLESS AIR TEMPERATURES ARE ABOVE 85°F FOR EXTENDED PERIOD. WAIT UNTIL HEAT WAVE IS OVER TO FERTILIZE. FOR LATE FALL/ WINTER SEEDINGS, FERTILIZE IN SPRING. RESTRICT USE--NEW SEEDLINGS SHOULD BE PROTECTED FROM USE FOR ONE FULL YEAR TO ALLOW DEVELOPMENT OF A DENSE SOD WITH GOOD ROOT STRUCTURE

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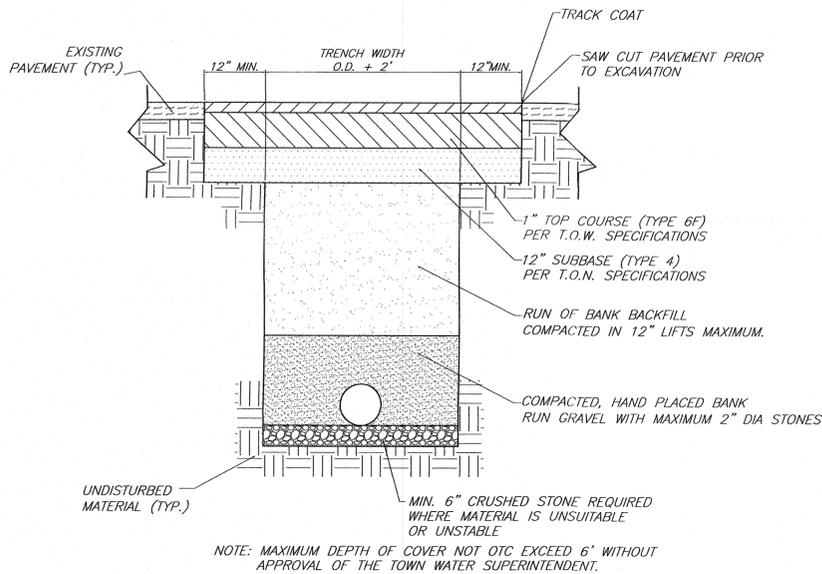
	ENGINEER TALCOTT ENGINEERING DESIGN PLLC 1 CARDINERTOWN ROAD NEWBURGH, NY 12550 (845)-569-8400 (FAX)(845)-569-4583 TALCOTTDDESIGN12@GMAIL.COM
	EROSION CONTROL DETAILS PROPOSED SUBDIVISION ENTITLED CHADWICK WOODS ROUTE 300, SBL 14-1-51 TOWN OF NEWBURGH, ORANGE COUNTY, NY
DATE: 01/11/18 SCALE: N.T.S. JOB NUMBER: 17100- MMR SHEET NUMBER: 5 OF 7	CHARLES T. BROWN, P.E.

REVISIONS			
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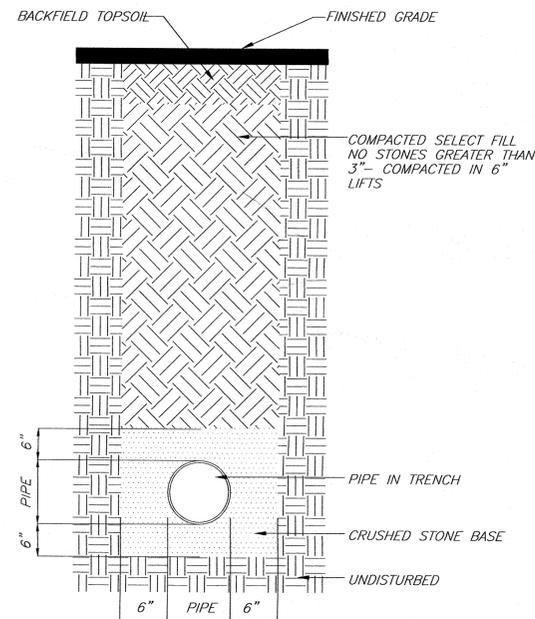


- NOTES**
1. ALL WATER SERVICE LINES TO BE TYPE K COPPER PLACED AT 4'-8" MIN. DEPTH.
 2. PROVIDED SLEEVES WHERE CURB BOX LIP WILL BE SET IN CONCRETE.
 3. THE FOLLOWING ACCESSORIES SHALL BE PROVIDED TO THE THE OWNER:
 - A. SIX (6) SPARE LIDS w/PLUG (MUELLER 89981)
 - B. TWO (2) PENTAGON KEYS (MUELLER H-10323)
 - C. TWO (2) SHUT-OFF KEYS (MUELLER H-10321)

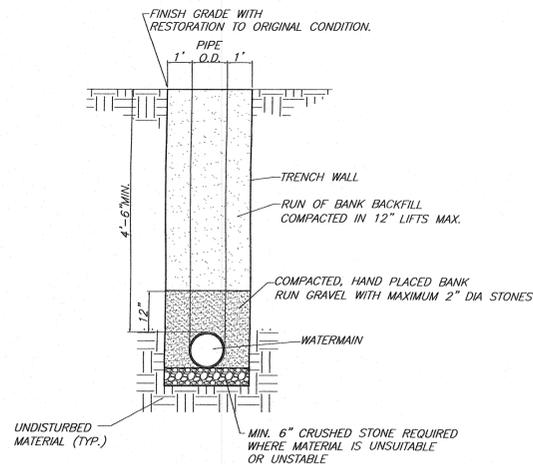
CURB STOP DETAIL
N.T.S.



TRENCH EXCAVATION AND BACKFILL (UNDER PAVEMENT)
N.T.S.



PIPE BEDDING DETAIL
NO SCALE



WATERMAIN TRENCH EXCAVATION AND BACKFILL (OUTSIDE PAVEMENT)
N.T.S.

TOWN OF NEWBURGH (T.O.N.) WATER SERVICE NOTES

1. CONSTRUCTION OF POTABLE WATER UTILITIES AND CONNECTION TO THE T.O.N. WATER SYSTEM REQUIRES A PERMIT FROM THE T.O.N. WATER DEPARTMENT. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE NYSDDH AND THE T.O.N.
2. ALL WATER SERVICE LINES FOUR (4) INCHES AND LARGER IN DIAMETER SHALL BE CEMENT LINED CLASS 52 DUCTILE IRON PIPE CONFORMING TO ANSI/AWWA C151/A21.51-91 FOR DUCTILE IRON PIPE. JOINTS SHALL BE EITHER PUSH-ON OR MECHANICAL JOINT AS REQUIRED.
3. ALL PIPE, FITTINGS AND FITTINGS MUST COMPLY WITH THE FEDERAL "SAFE DRINKING WATER ACT", SECTION 1417 WHICH REQUIRES ALL SURFACES IN CONTACT WITH POTABLE WATER CONTAIN NO MORE THAN 0.25% LEAD BY WEIGHT.
4. ALL WORK AND MATERIALS MUST MEET THE REQUIREMENTS OF THE TOWN OF NEWBURGH CONSOLIDATED WATER DISTRICT- STANDARD DESIGN AND CONSTRUCTION REQUIREMENTS FOR WATER DISTRIBUTION MAIN EXTENSION, OCT. 2001.

PIPE

- A. DUCTILE IRON PIPE SHALL BE CLASS 52 WITH MECHANICAL-JOINT OR PUSH-ON JOINT CONNECTIONS. PIPE SHALL BE FURNISHED WITH A SEAL COATED CEMENT MORTAR LINING CONFORMING TO ANSI/AWWA C104/A21.4, LATEST VERSION. ALL BURIED PIPE SHALL BE FURNISHED WITH A STANDARD BITUMASTIC COATING CONFORMING TO A21.15, LATEST VERSION.
- B. PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI A21.50 AND AWWA C150/151, LATEST VERSION.
- C. FOR PUSH-ON JOINTS TWO(2) SILICON BRONZE WEDGES SHALL BE INSTALLED IN EACH JOINT AT THE 10 O'CLOCK AND 2 O'CLOCK POSITIONS.

FITTINGS

- A. ALL FITTINGS SHALL BE CLASS 52 CAST IRON OR DUCTILE IRON AND MECHANICAL JOINT CONFORMING TO ANSI/AWWA C100/A21.10, LATEST EDITION FOR DUCTILE AND GRAY IRON FITTINGS OR ANSI/AWWA C153/A21.53, LATEST EDITION FOR DUCTILE IRON COMPACT FITTINGS.
- B. FITTINGS SHALL HAVE A WORKING PRESSURE OF 250PSI FOR DUCTILE AND GRAY IRON FITTINGS AND 350PSI FOR DUCTILE IRON COMPACT FITTINGS.
- C. FITTINGS SHALL BE FURNISHED WITH A SEAL COATED CEMENT MORTAR LINING WITH THE SAME THICKNESS SPECIFIED FOR THE CORRESPONDING SIZE OF DUCTILE IRON PIPE.

JOINT RESTRAINT

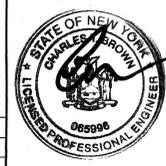
- A. THRUST RESTRAINT OF THE PIPE SHALL BE THROUGH THE USE OF JOINT RESTRAINT. THRUST BLOCK ARE NOT ACCEPTABLE. JOINT RESTRAINT SHALL BE THROUGH THE USE OF MECHANICAL JOINT PIPE WITH RETAINER GLANDS. ALL FITTINGS AND VALVES SHALL ALSO BE INSTALLED WITH RETAINER GLANDS FOR JOINT RESTRAINT. RETAINER GLAN SHALL BE EBAA IRON MEGALUC SERIES 1100 OR APPROVED EQUAL. THE USE OF A MANUFACTURED RESTRAINED JOINT PIPE IS ACCEPTABLE WITH PRIOR APPROVAL OF THE WATER DEPARTMENT.

VALVES & VALVE BOXES

- A. ALL VALVES FOUR (4) INCHES THROUGH TWELVE (12) INCHES IN DIAMETER SHALL BE IRON BODY, BRONZE MOUNTED RESILIENT WEDGE GATE VALVES WITH MECHANICAL-JOINT ENDS. VALVES SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF AWWA C509.
- B. VALVES SHALL HAVE A MINIMUM OPERATING PRESSURE OF 250PSI AND FACTORY TESTED AT 500PSI.
- C. VALVES SHALL OPEN LEFT (COUNTER CLOCKWISE) WITH A STANDARD 2INCH SQUARE OPERATING NUT WITH ARROW CAST ONTO IT SHOWING THE DIRECTION OF OPENING.
- D. GATE VALVE SHALL MODEL A-2360-23 AS MANUFACTURED BY MUELLER Co OR EQUAL.
- E. VALVE BOXES SHALL BE INSTALLED WITH ALL VALVES.
- F. VALVE BOXES SHALL BE OF CAST-IRON, TELESCOPING, AT LEAST FIVE AND ONE-QUATER INCH (5/4") IN DIAMETER. VALVE BOXES SHALL BE TWO (2) PIECE AND OF THE LENGTH SO THAT WHEN THE TOP IS AT FINISHED GRADE, THE BOX WILL HAVE A EXTENSION RESERVE OF AT LEAST FIVE(5) INCHES.
- G. ALL VALVE BOXES SHALL BE FURNISHED TO MATCH THE SPECIFIC VALVE DIMENSIONS AND TRENCH DEPTH.
- H. VALVE BOXES SHALL BE PLUMB AND CENTERED OVER THE OPERATING NUT OF THE VALVE.
- I. ALL VALVE BOXES SHALL BE FURNISHED WITH A CAST IRON DROP STYLE COVER WITH THE WORD "WATER" AND A ARROW INDICATING THE DIRECTION OF VALVE OPENING.

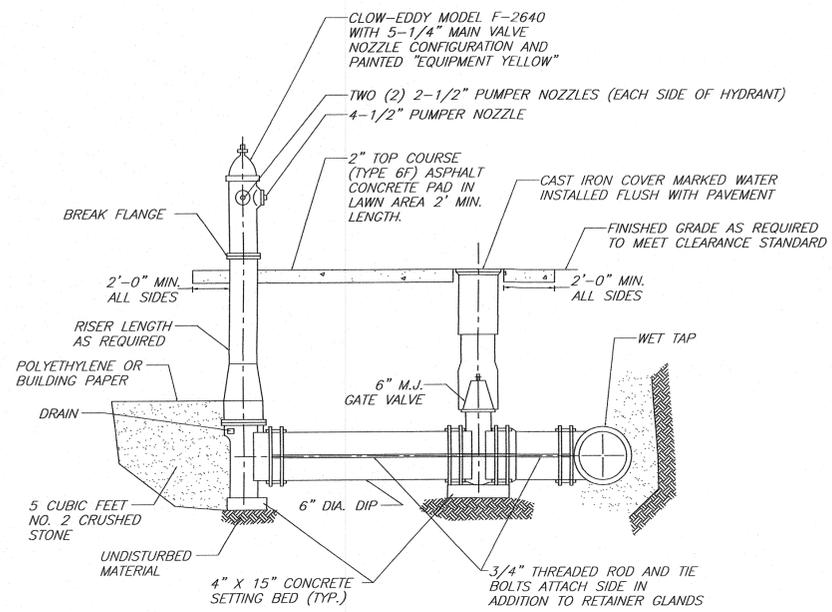
7. ALL WATER SERVICE LINES TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING. CORPORATION STOPS SHALL BE MUELLER H-15020 FOR 3/4 AND 1 INCH, MUELLER H-15000 OR B-25000 FOR 1 1/2 AND 2 INCH SIZES. CURB VALVES SHALL BE MUELLER H-1502-2 FOR 3/4 AND 1 INCH AND MUELLER B-25204 FOR 1 1/2 AND 2 INCH SIZES. CURB BOXES SHALL BE MUELLER H-10314 FOR 3/4 AND 1 INCH AND MUELLER H-10310 FOR 1 1/2 AND 2 INCH SIZES.
8. ALL PIPE INSTALLATION SHALL BE SUBJECT TO INSPECTION BY THE T.O.N. WATER DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS AS REQUIRED WITH THE T.O.N. WATER DEPARTMENT.
9. THE WATER MAIN SHALL BE TESTED, DISINFECTED AND FLUSHED IN ACCORDANCE WITH THE T.O.N. REQUIREMENTS. ALL TESTING, DISINFECT ION AND FLUSHING SHALL BE COORDINATED WITH THE T.O.N. WATER DEPARTMENT. PRIOR TO PUTTING THE WATER MAIN IN SERVICE SATISFACTORY SANITARY RESULTS FROM A CERTIFIED LAB MUST BE SUBMITTED TO THE T.O.N. WATER DEPARTMENT. THE TEST SAMPLES MUST BE COLLECTED BY A REPRESENTATIVE OF THE TESTING LABORATORY AND WITNESSED BY THE WATER DEPARTMENT.
10. CONTRACTOR SHALL DIG TEST HOLE PRIOR TO MAIN EXTENSION TO VERIFY EXISTING MAIN, VALVE AND FITTINGS. TOWN ENGINEER AND WATER DEPARTMENT SHALL BE NOTIFIED OF TEST HOLE SCHEDULE.
11. THE TOWN OF NEWBURGH WATER SYSTEM SERVING THIS AREA OF DEVELOPMENT, REQUIRED THAT EACH HOMEOWNER MAINTAIN AN INDIVIDUAL WATER BOOSTER SYSTEM. EACH INDIVIDUAL PUMP AND HYDRO-PNEUMATIC SYSTEM SHALL PROVIDE WATER PRESSURES BETWEEN 30 AND 50psi WITHIN THE HOME.
12. THE DOUBLE CHECK VALVE BACKFLOW PREVENTOR MUST BE MAINTAINED BY THE HOMEOWNER AND INSPECTED ANNUALLY BY A NYS CERTIFIED TESTER, AND A COPY OF THE REPORT MUST BE SUBMITTED TO THE TOWN OF NEWBURGH WATER DEPARTMENT.
13. DUE TO EXISTING LIMITATIONS IN THE TOWN OF NEWBURGH WATER SUPPLY SYSTEM, FIRE FLOW IN THIS PROJECT WILL BE BELOW THE NEEDED FIRE FLOWS AS ESTABLISHED BY THE INSURANCE SERVICES OFFICE IN THEIR "FIRE SUPPRESSION RATING SCHEDULE"

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	1 GARDINERTOWN ROAD NEWBURGH, NY 12550 (845)-569-8400 (FAX)(845)-569-4583 TALCOTTDESIGN12@GMAIL.COM		
PROPOSED SUBDIVISION ENTITLED CHADWICK WOODS ROUTE 300, SBL 14-1-51 TOWN OF NEWBURGH, ORANGE COUNTY, NY			
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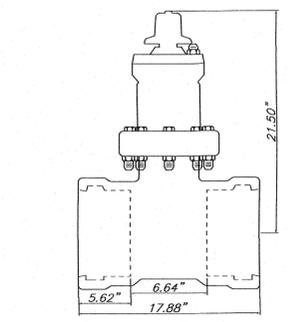
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CHARLES T. BROWN, P.E.

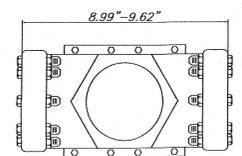


HYDRANT AND VALVE ASSEMBLY INSTALLATION
N.T.S.

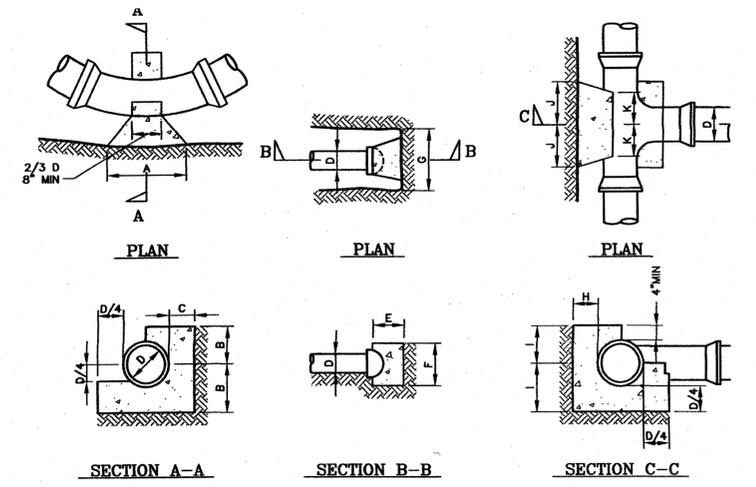
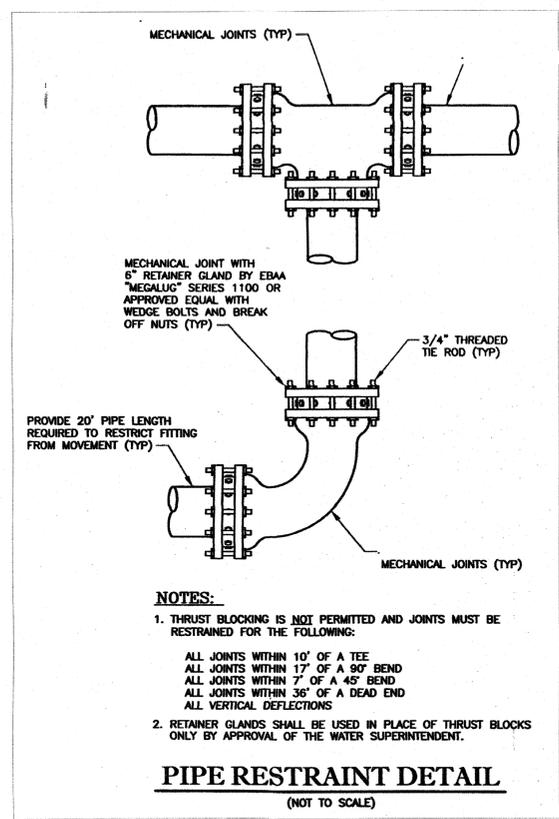
- NOTES:
1. PROPOSED LOCATION OF HYDRANTS TO BE FIELD LOCATED (STAKED) AND APPROVED BY WATER SUPERINTENDENT PRIOR TO INSTALLATION
 2. HYDRANT TO BE INSTALLED WITHIN RIGHT-OF-WAY.
 3. HYDRANT WITH PROPER RISER LENGTH (DEPTH OF BURY) SHALL BE INSTALLED AS REQUIRED TO MEET THE 2" MIN. TO 4" MAX. CLEARANCE BETWEEN THE CENTER OF THE BREAK FLANGES AND THE ASPHALT CONCRETE PAD.
 4. WET TAP FITTING SPECIFICATION SHALL BE PROVIDED BY THE WATER DEPARTMENT



MUELLER CO. GATE VALVE A-2360 (6")
N.T.S.



MUELLER CO. MECHANICAL JOINT H-615 (6")
N.T.S.



HORIZONTAL BEND

BEND	4"	6"	8"	10"
11 1/4° BEND	A 6" 8" 10" 12"	B 7" 8" 9" 10"	C 7" 7" 8" 8"	
22 1/2° BEND	A 9" 12" 18" 21"	B 7" 8" 9" 10"	C 8" 8" 9" 10" 11"	
45° BEND	A 15" 15" 25" 30"	B 7" 8" 9" 10"	C 8" 9" 10" 11"	
90° BEND	A 24" 30" 36" 42"	B 6" 9" 12" 15"	C 22" 21" 20" 19"	

CAP

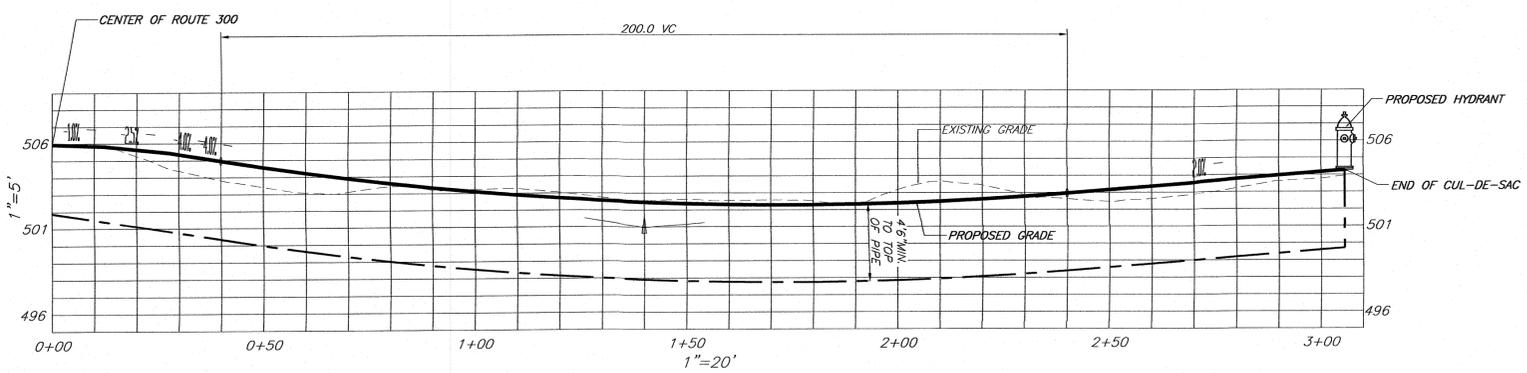
D	6"	8"
E	6"	8"
F	12"	16"
G	17"	23"

TEE

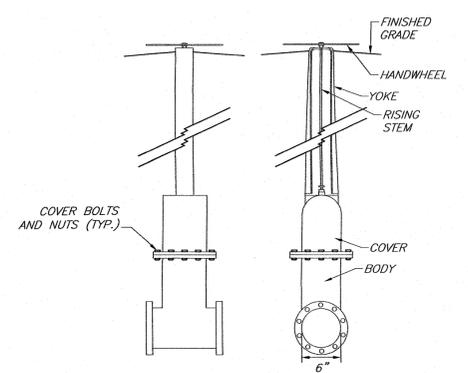
D	4"	6"	8"	10"
H	8"	9"	10"	12"
I	8"	10"	12"	15"
J	7"	9"	12"	14"
K	6"	8"	8"	8"

- NOTES:
1. ALL CONCRETE TO BE 3000 PSI.
 2. ALL THRUST BLOCKS TO BE POURED ON UNDISTURBED EARTH.
 3. THRUST BLOCK DIMENSIONS SHOWN ARE MINIMUM.
 4. A BOND BREAKER SHALL BE INSTALLED BETWEEN ALL WATER MAINS AND THRUST BLOCKS.

THRUST BLOCK DETAIL
(NOT TO SCALE)



ROAD AND WATERLINE PROFILE



CLOW F-5285 OR APPROVED EQUAL
GATE VALVE DETAIL
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													
	PROPOSED SUBDIVISION ENTITLED CHADWICK WOODS ROUTE 300, SBL 14-1-51 TOWN OF NEWBURGH, ORANGE COUNTY, NY													
REVISIONS <table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>05/21/21</td> <td>RBM</td> <td>REVISED PER BOARD PB COMMENTS</td> </tr> <tr> <td>1</td> <td>06/08/20</td> <td>RBM</td> <td>REVISED PER BOARD PB COMMENTS</td> </tr> </tbody> </table>	REV.	DATE	BY	DESCRIPTION	2	05/21/21	RBM	REVISED PER BOARD PB COMMENTS	1	06/08/20	RBM	REVISED PER BOARD PB COMMENTS	DATE: 01/11/18 SCALE: N.T.S. JOB NUMBER: 17100-MMR SHEET NUMBER: 7 OF 7	CHARLES T. BROWN, P.E.
REV.	DATE	BY	DESCRIPTION											
2	05/21/21	RBM	REVISED PER BOARD PB COMMENTS											
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