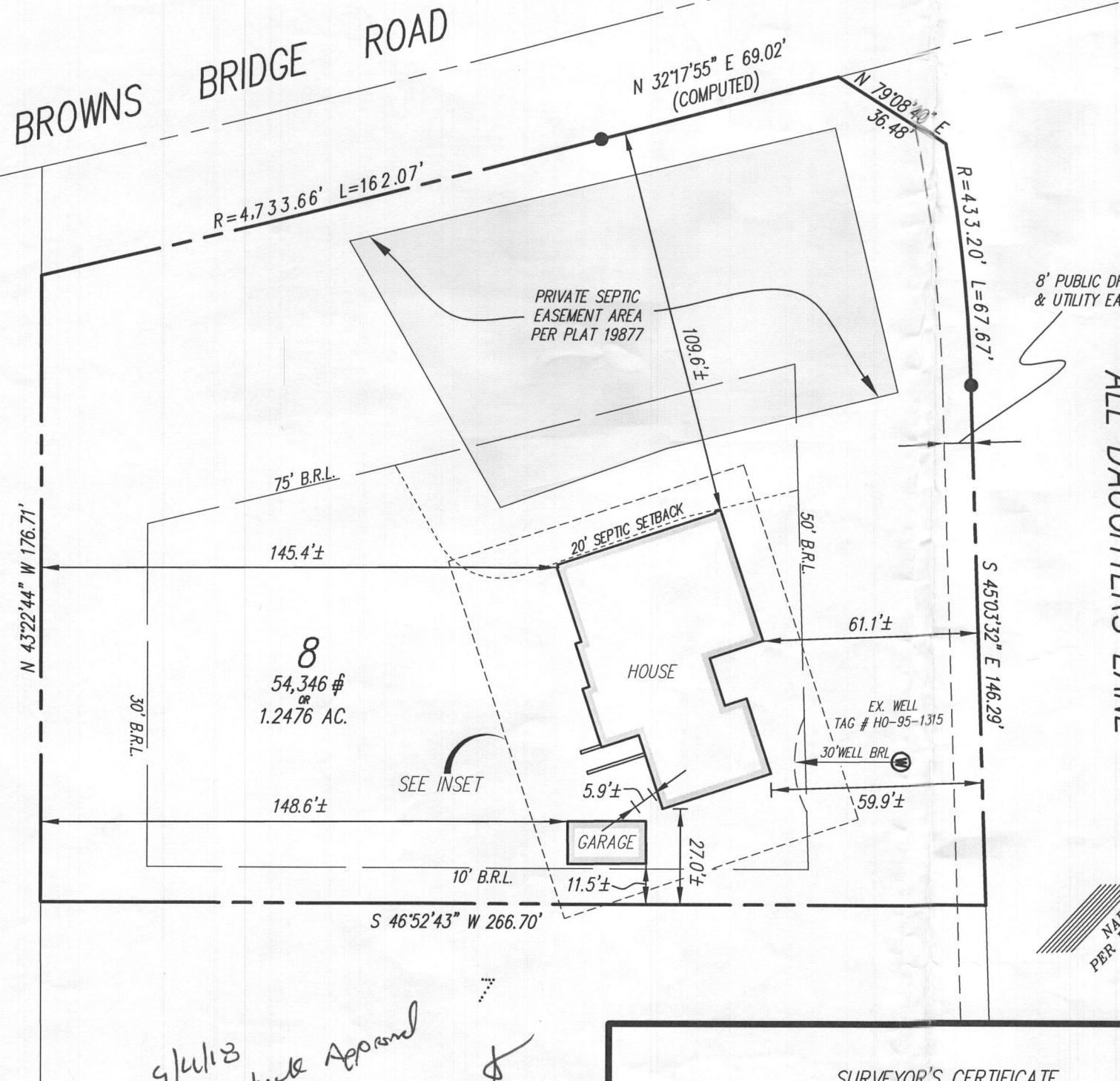


S:\Survey Drawings\WALLCHECK\ORCHARD-ESTATES-15112\WCK-8.dwg, 8/30/2018 10:56:50 AM, morgamb, 5501_SURVEY (COLOR).pc3, 1:1

BROWNS BRIDGE ROAD

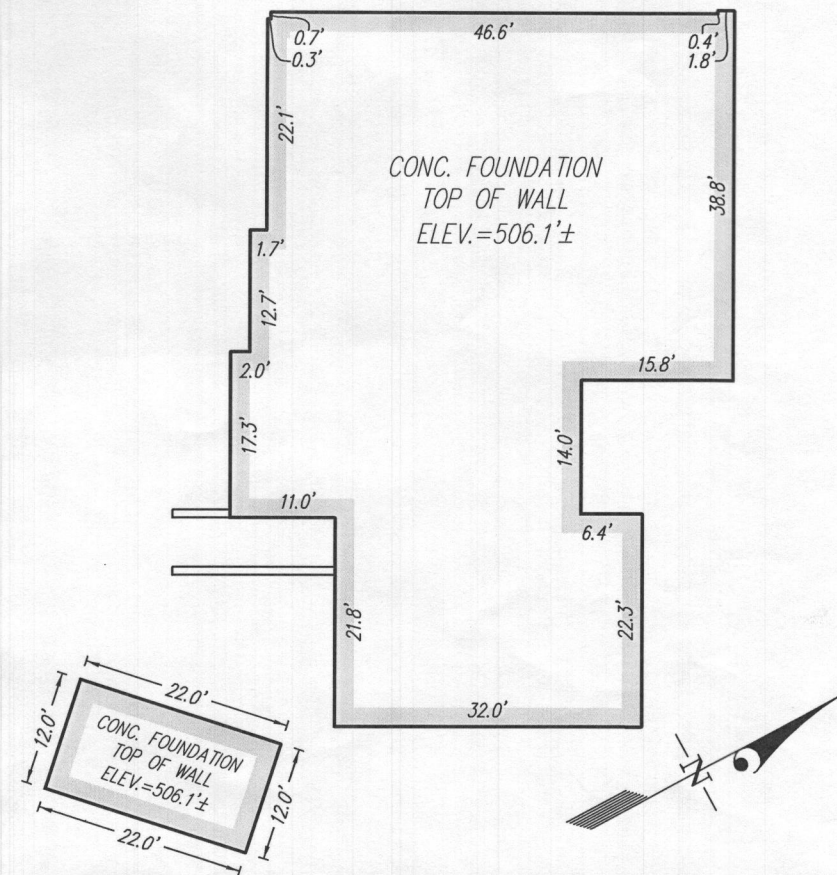


THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS-OF-WAY, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED. THIS IS NOT A "LOCATION DRAWING" AND IS NOT TO BE USED FOR SETTLEMENT PURPOSES.

THE PROPERTY SHOWN HEREON LIES WITHIN ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON THE F.E.M.A. FLOOD INSURANCE RATE MAP, MAP NUMBER 24027C0140D, EFFECTIVE DATE NOVEMBER 6, 2013.

BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER PLOT PLAN/SEDIMENT CONTROL PLAN. SETBACK DISTANCES SHOWN HEREON ARE TO THE OUTERMOST FACE OF THE FOUNDATION WALLS AND HAVE AN ACCURACY OF ± 0.1' FOOT.

INSET: 1"=20'



9/4/18
 Will check Approval
 - Kim
 E-quest PA on bearing

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY TO:
"MB ORCHARD ESTATES, LLC"

THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF,
THE POSITION OF THE ABOVE REFERENCED BUILDING FOUNDATION
HAS BEEN ESTABLISHED BY ACCEPTED FIELD PRACTICES.

For Gutschick, Little and Weber, P.A. :
 Thomas C. O'Connor, Jr.,
 Professional Land Surveyor, No. 10954 (EXP. DATE: 07/03/2020)

THIS WALLCHECK IS VALID ONLY WITH AN ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE SURVEYOR.

WALLCHECK
(SPECIAL PURPOSE SURVEY)

ORCHARD ESTATES

LOT 8

12402 ALL DAUGHTERS LANE

HOWARD COUNTY, MD

DATE OF LATEST FIELD WORK: 8/20/2018

G.L.W. FILE No. 15112

REFERENCE : PLAT BOOK: N/A

PLAT No. 19877

SCALE: 1"=40'

GLW
PLANNING | ENGINEERING | SURVEYING

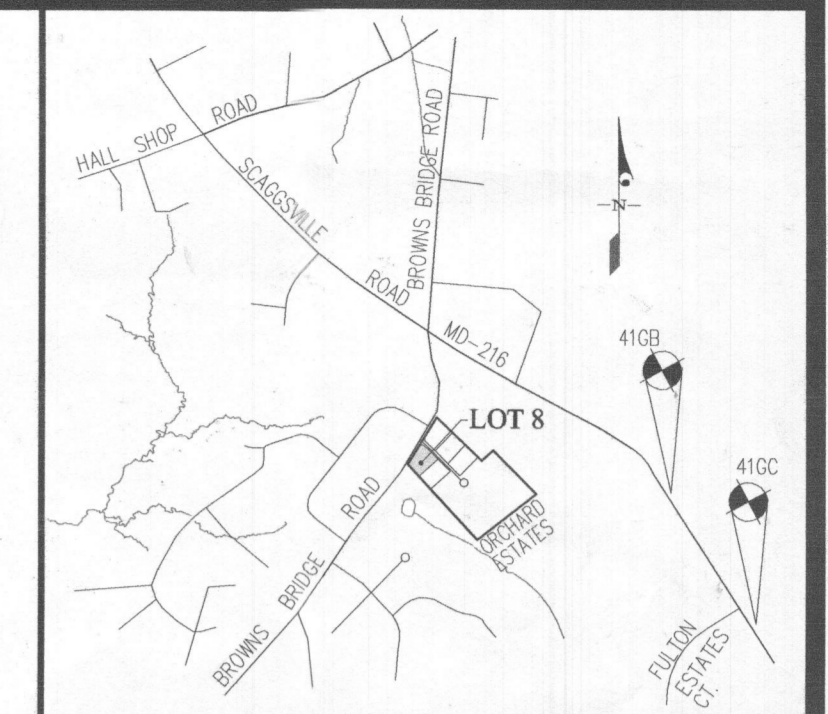
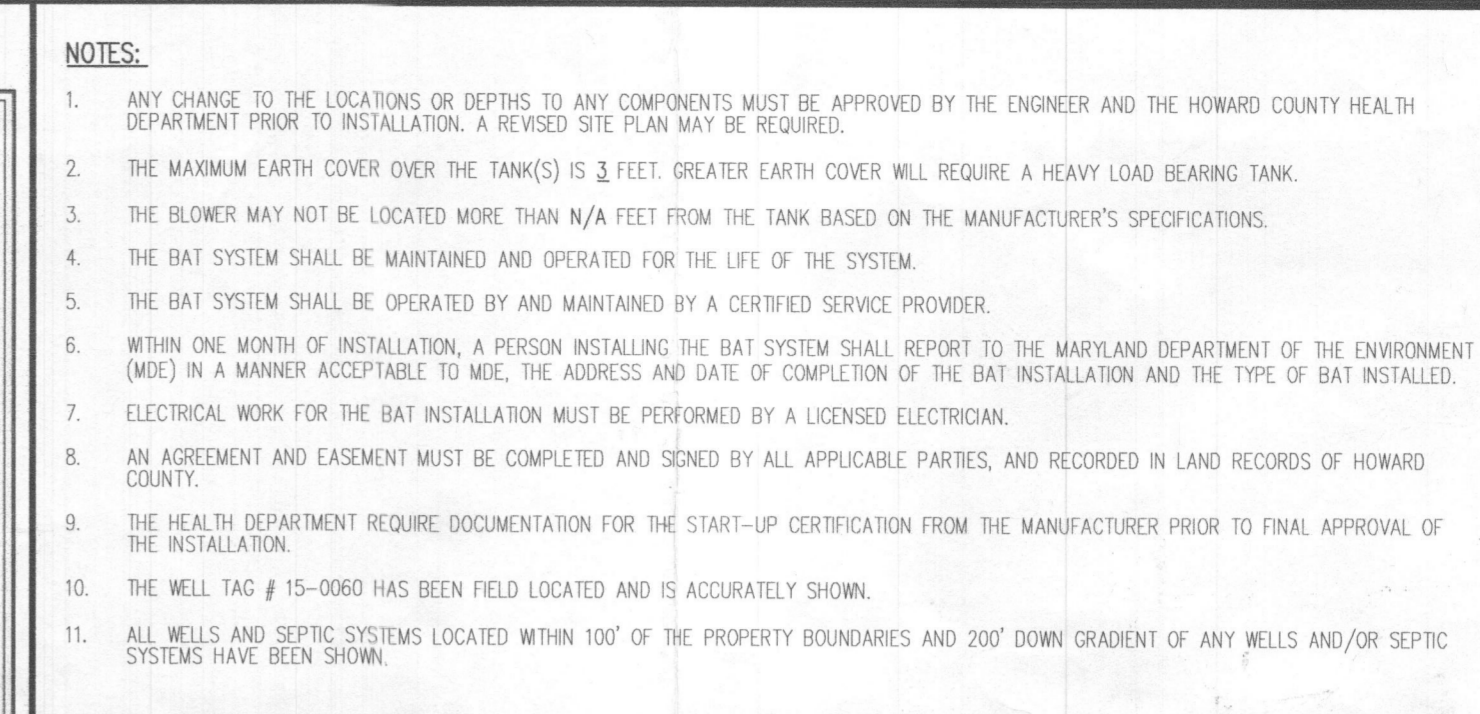
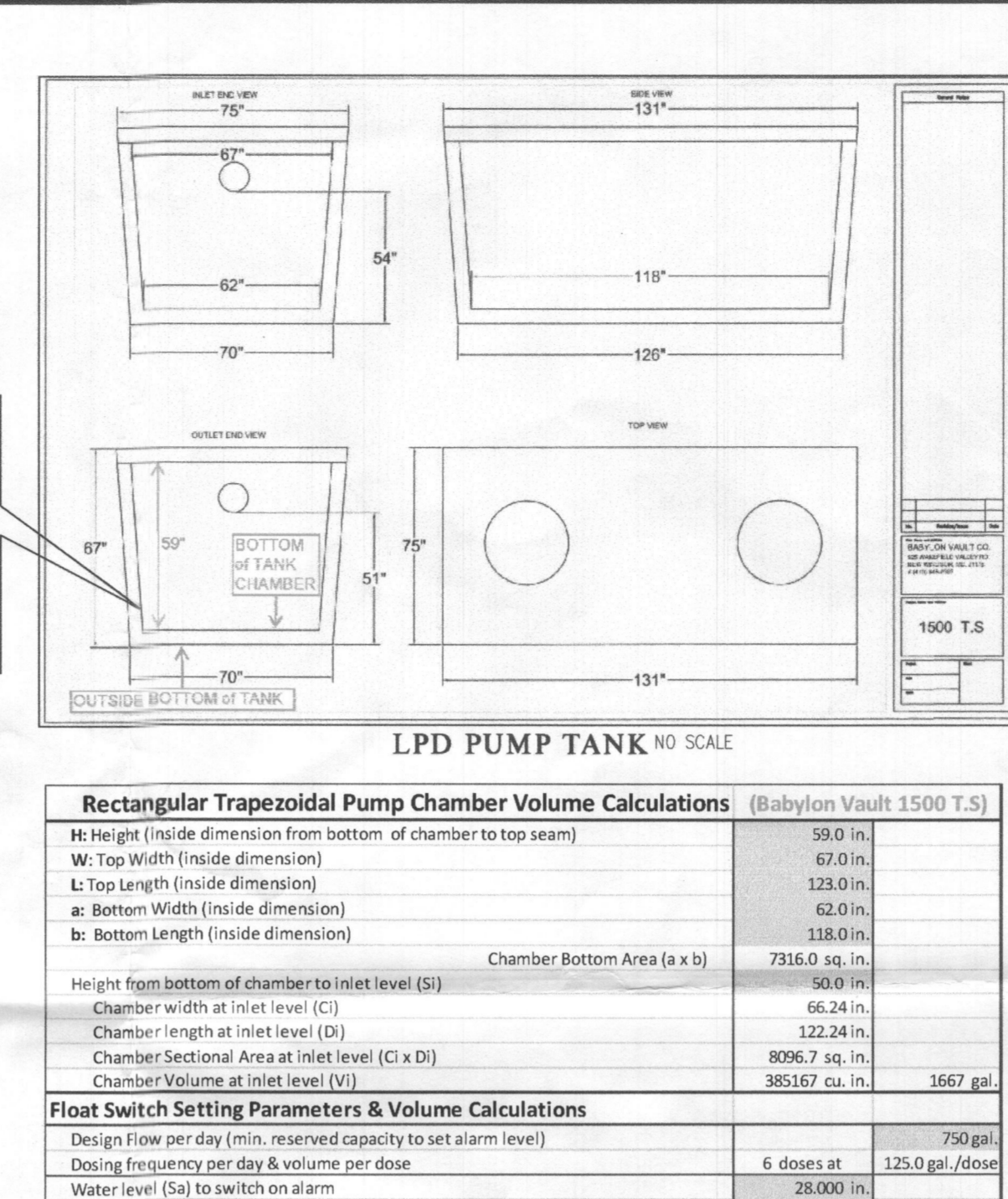
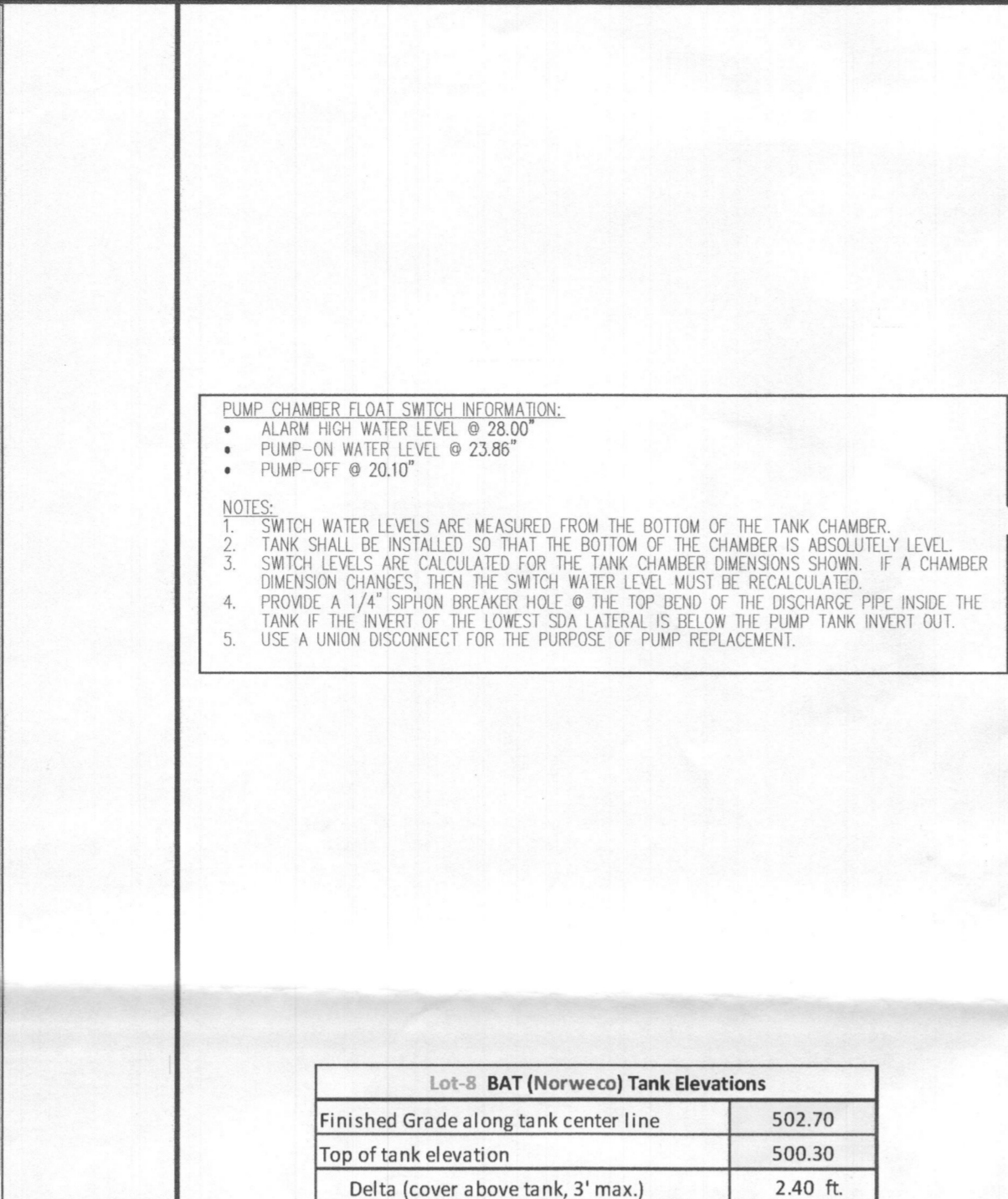
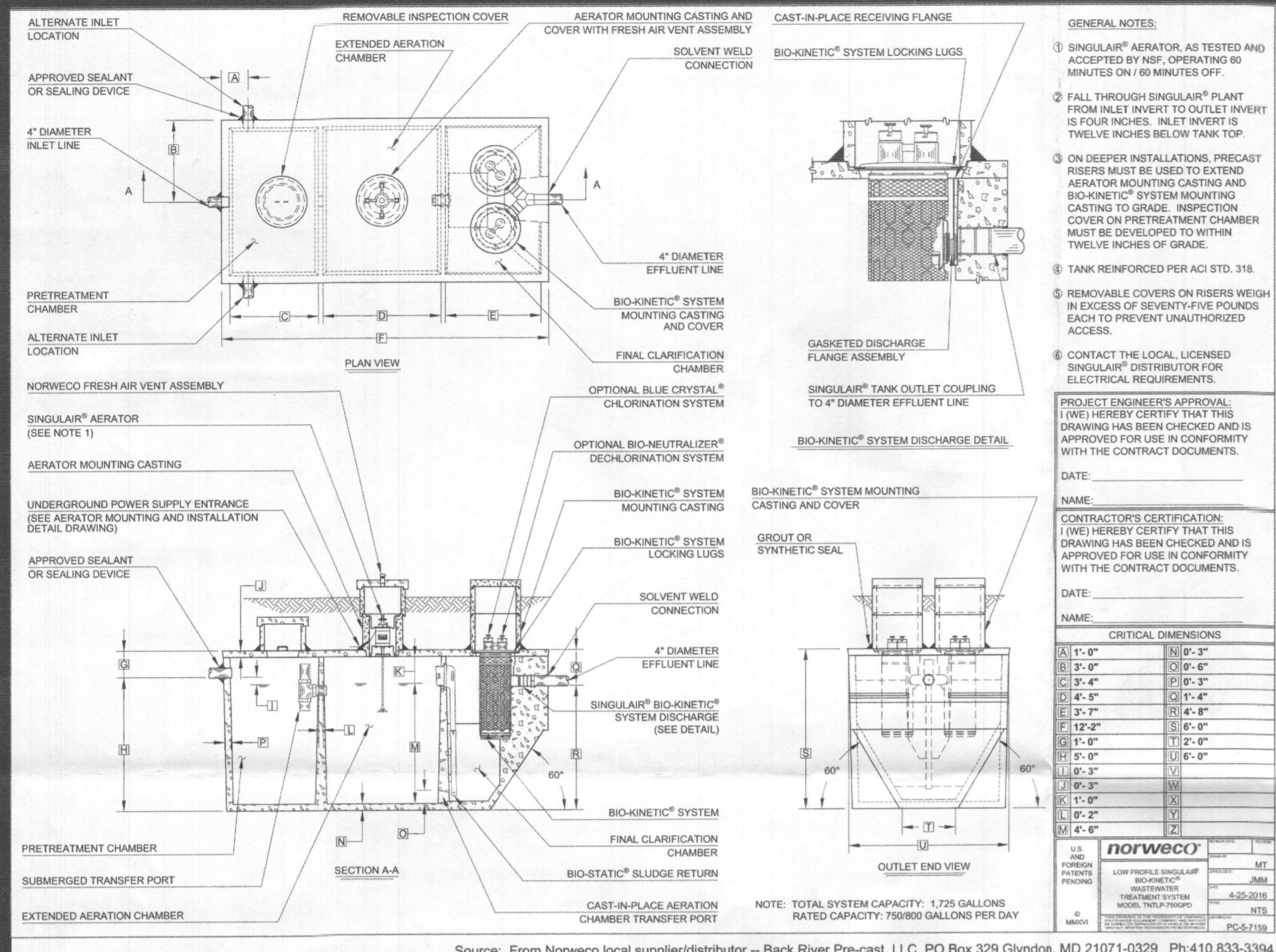
3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20886 | GLWPA.COM
PHONE: 301-421-4024 | BALT: 410-880-1820 | DC&VA: 301-889-2524 | FAX: 301-421-4186

DES.

DRN. MAB

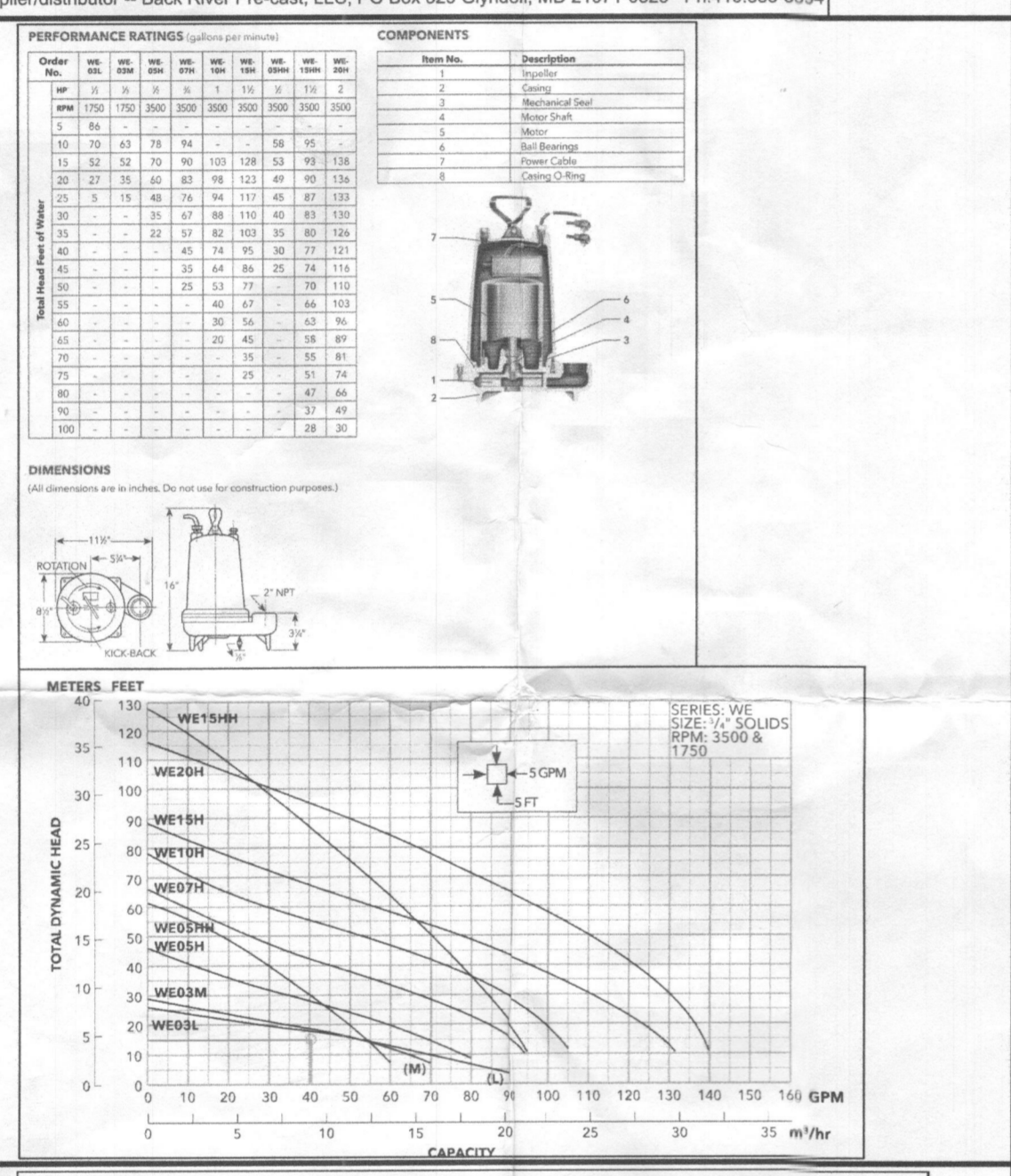
CHK.

PREPARED FOR:
 MB ORCHARD
 ESTATES, LLC
 1686 E. GUDE DRIVE
 ROCKVILLE, MARYLAND
 20850



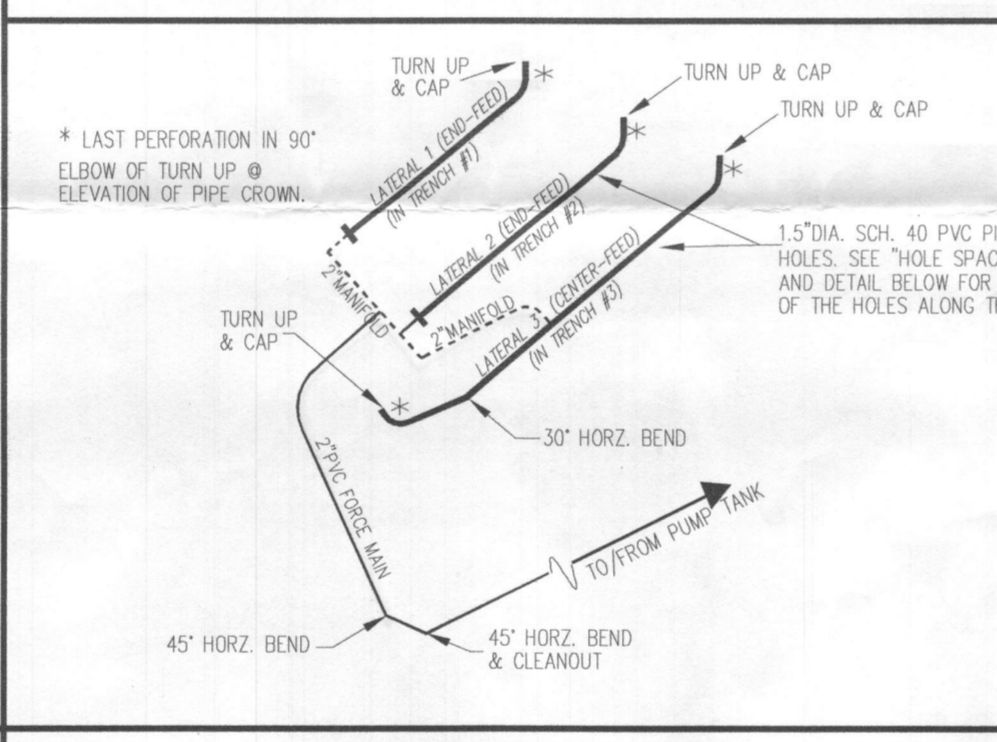
Wastewater PUMP SELECTED

Order Number	Model	Flow (GPM)	Head (ft)	Power (HP)	Weight (lbs)
111	WE111	1.0	10	0.1	10
125	WE125	1.25	12	0.15	12
150	WE150	1.5	15	0.2	15
200	WE200	2.0	20	0.3	20
250	WE250	2.5	25	0.4	25
300	WE300	3.0	30	0.5	30
350	WE350	3.5	35	0.6	35
400	WE400	4.0	40	0.7	40
450	WE450	4.5	45	0.8	45
500	WE500	5.0	50	1.0	50
550	WE550	5.5	55	1.1	55
600	WE600	6.0	60	1.2	60
650	WE650	6.5	65	1.3	65
700	WE700	7.0	70	1.4	70
750	WE750	7.5	75	1.5	75
800	WE800	8.0	80	1.6	80
850	WE850	8.5	85	1.7	85
900	WE900	9.0	90	1.8	90
950	WE950	9.5	95	1.9	95
1000	WE1000	10.0	100	2.0	100



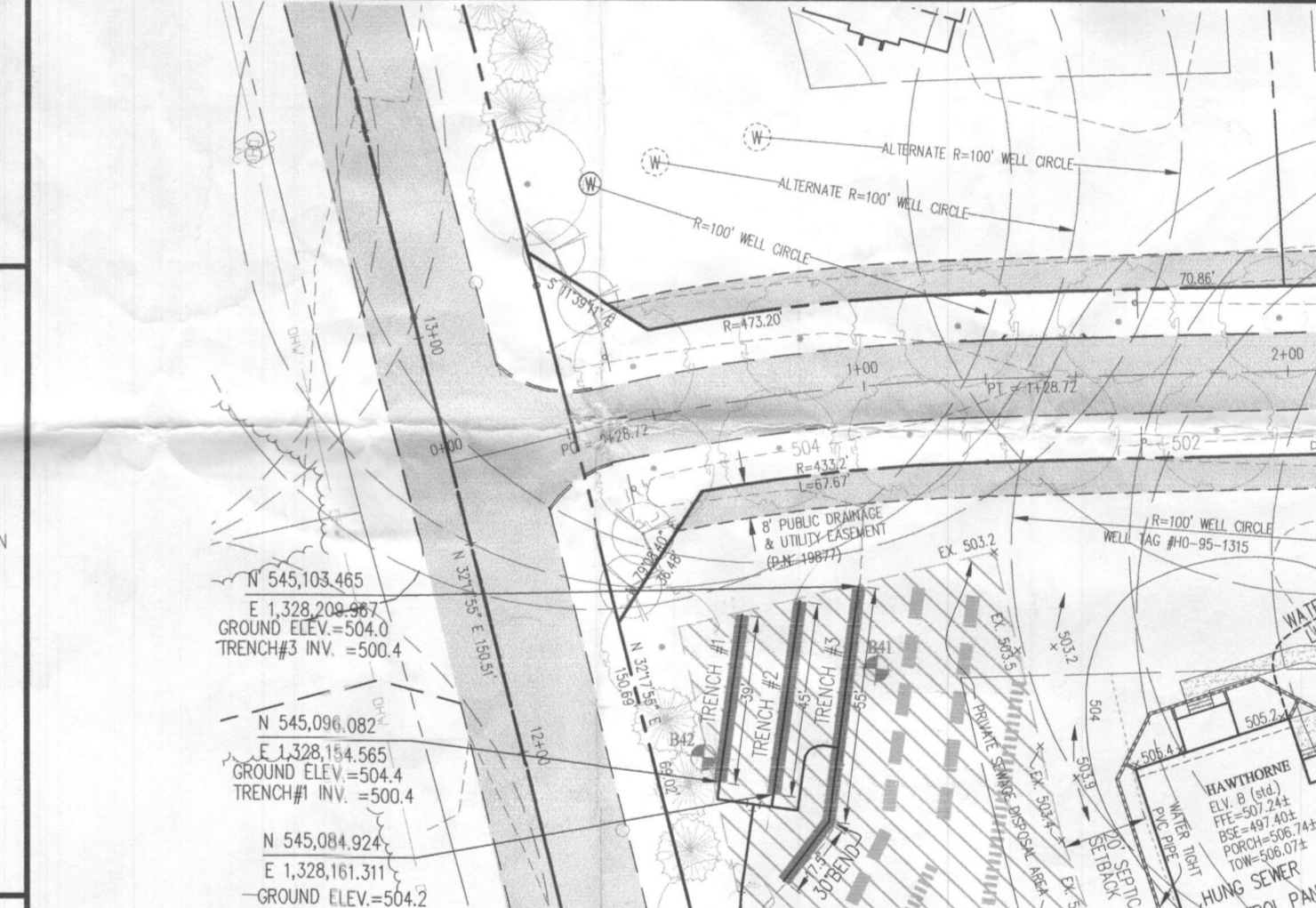
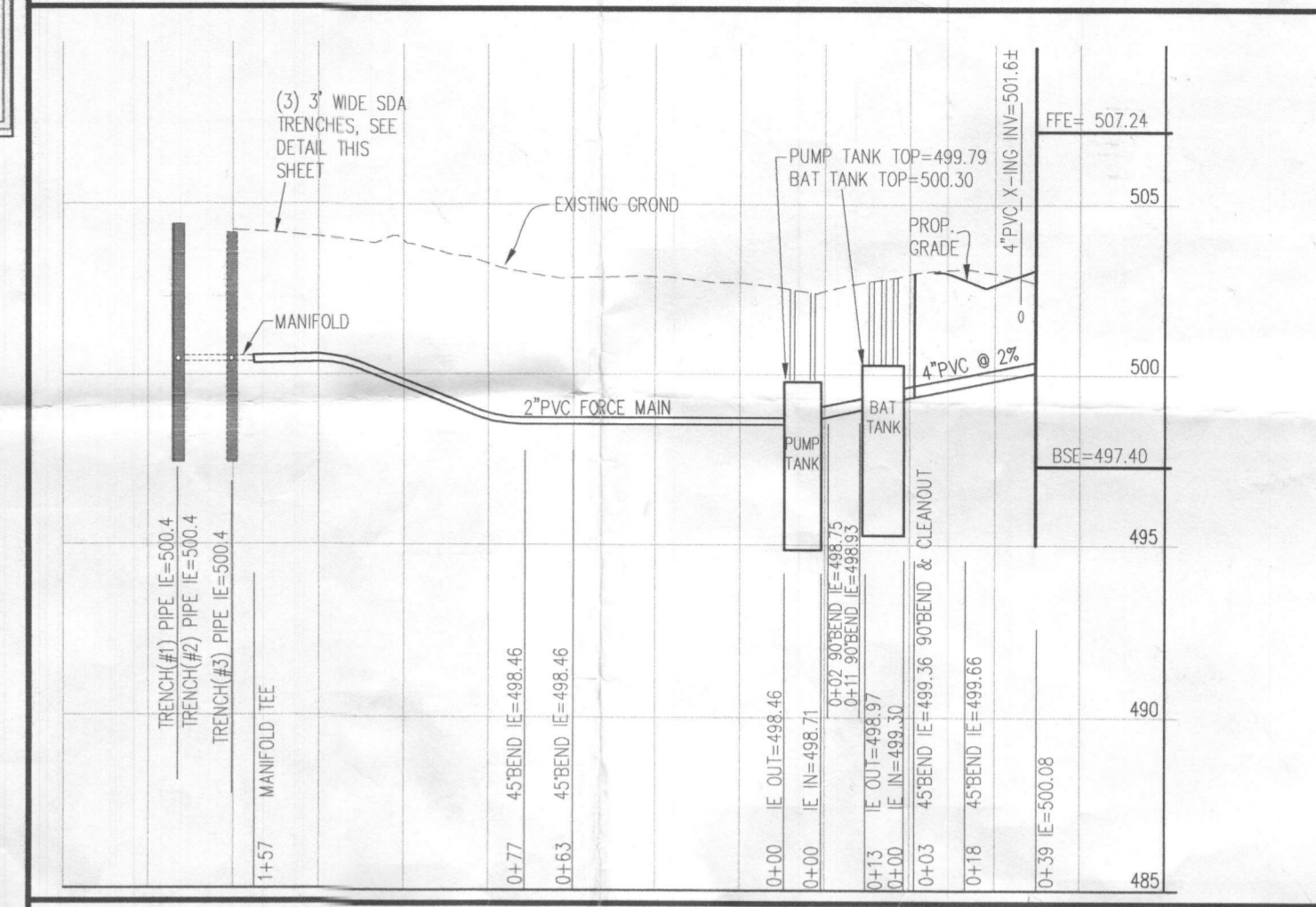
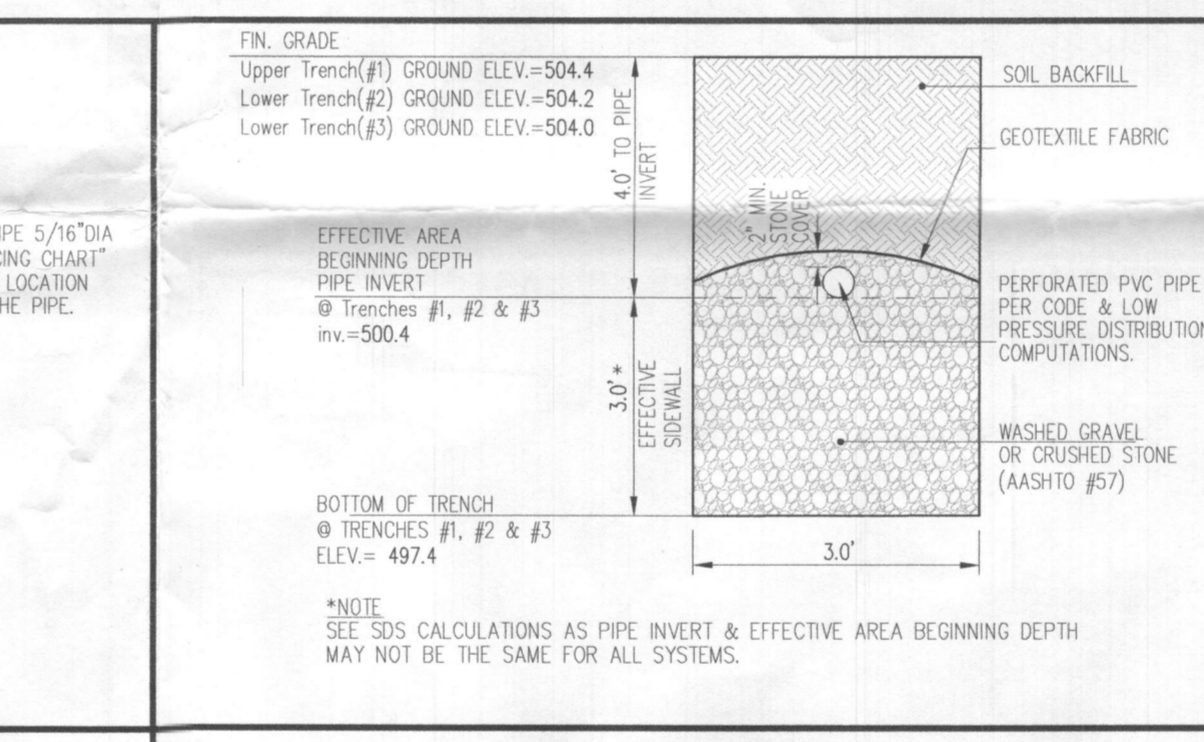
Lot-8 BAT (Norweco) Tank Elevations

Finished Grade along tank center line	502.70
Top of tank elevation	500.30
Delta (cover above tank, 3' max.)	2.40 ft
Outside bottom of BAT tank elevation	494.30
Invert in	499.30
Invert out	498.97



Lot-8 LPD Pump Tank Elevations

Finished Grade along tank center line	502.35
Top of tank elevation	499.79
Delta (cover above tank, 3' max.)	2.56 ft
Outside bottom of tank	494.21
Bottom of chamber elevation	494.54
Invert in	498.71
Invert out	498.46
Bottom of Pump (set on 6" block)	495.04

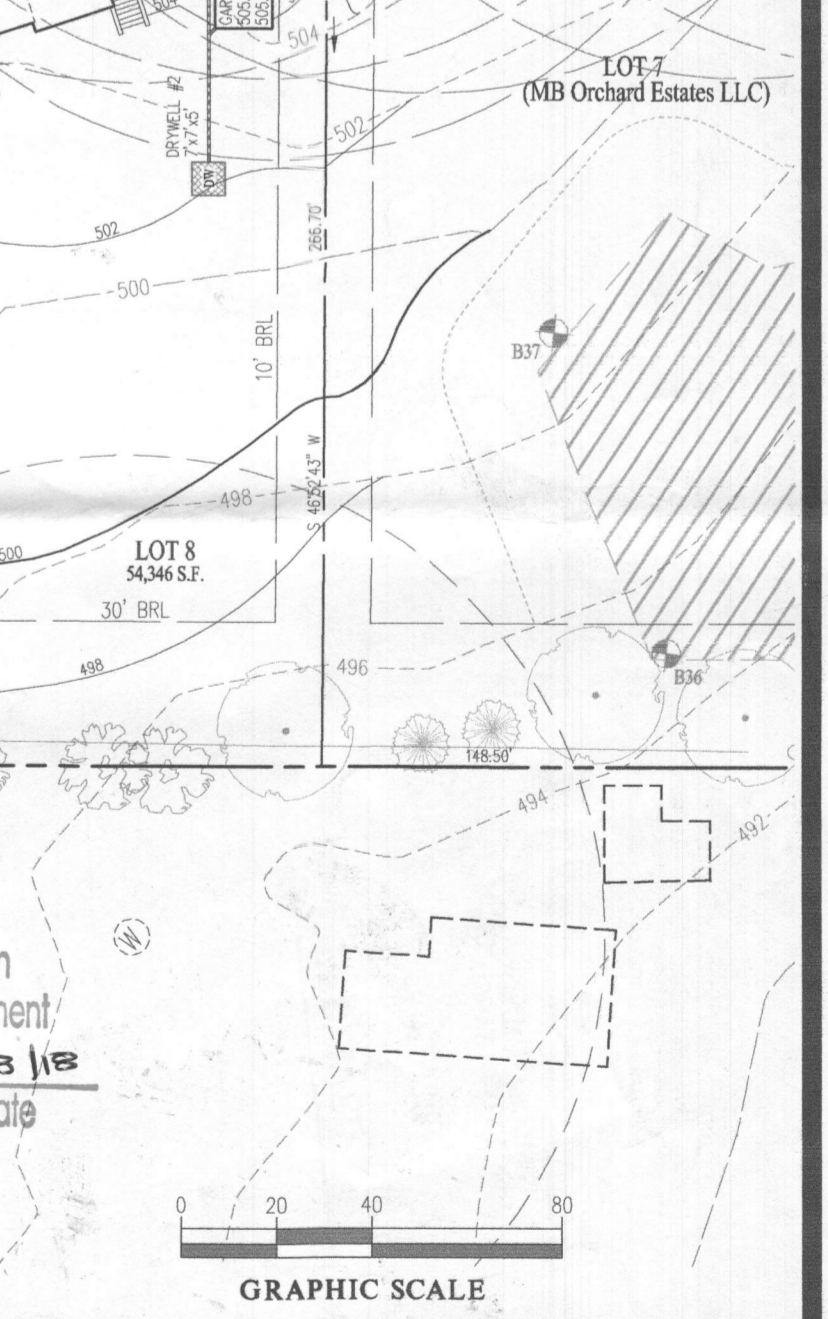
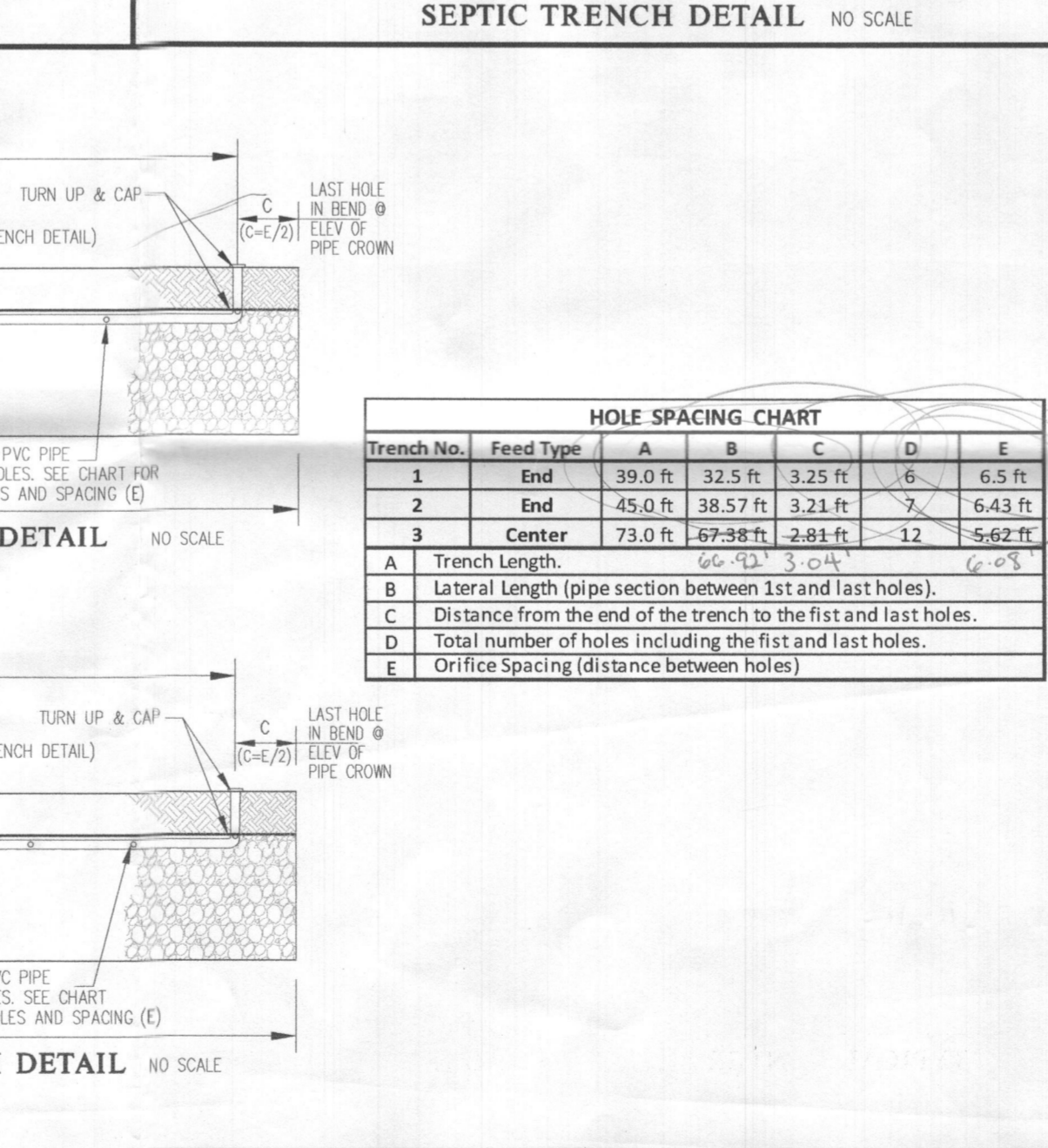
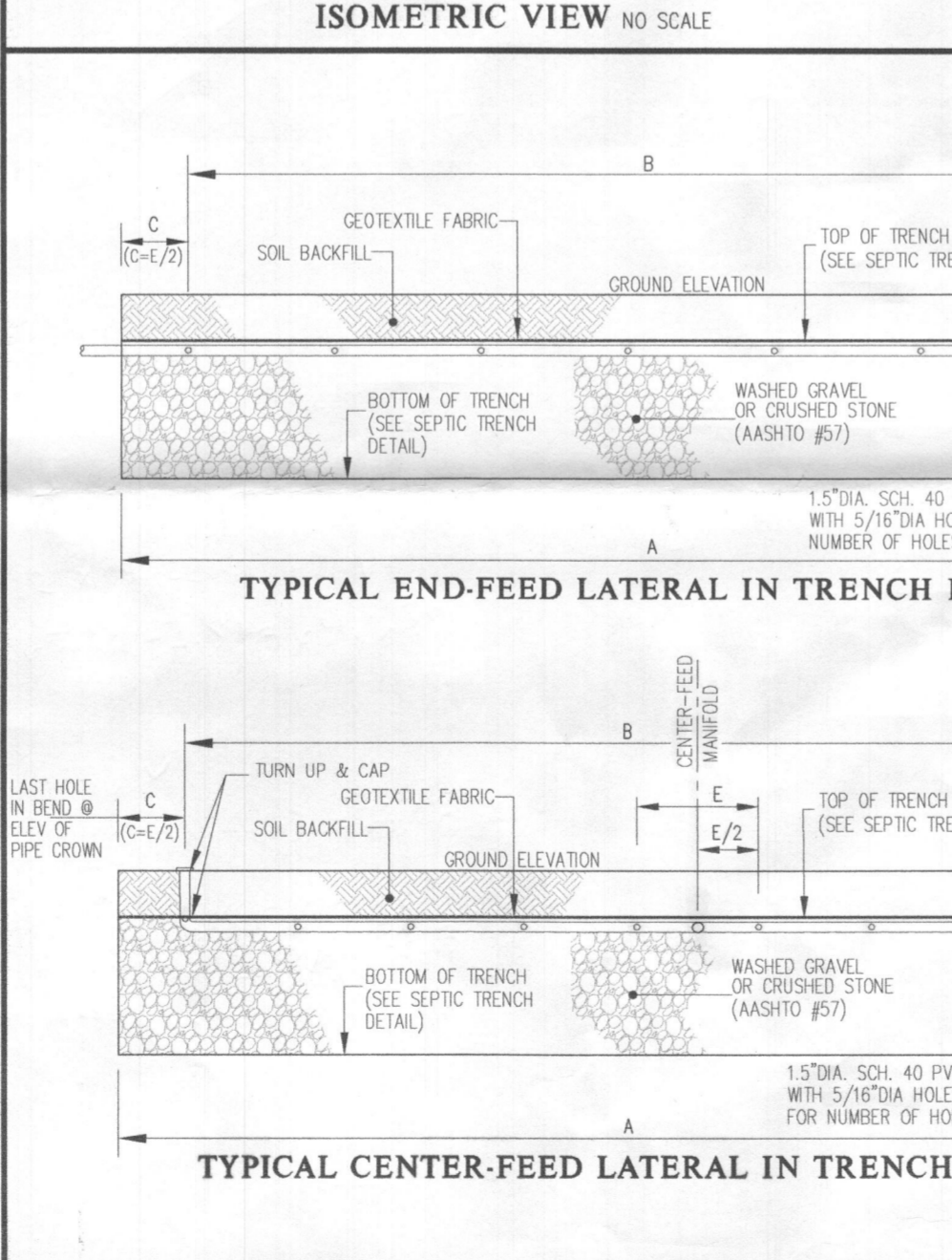


SDA TRENCH SIZE CALCULATIONS

System Input Information	Lot 8
Application Rate	0.8
Effective area beginning depth	4.0
Effective area maximum bottom depth	7.0
Number of Bedrooms	5
Design flow at 150 gal./day/bedroom	750
Absorption Trench Calculations	
Drainfield area required	938 s.f.
Linear feet of trench required	156.3
Minimum Trench Spacing	10.0

LOW PRESSURE DISTRIBUTION SYSTEM CALCULATIONS

Manifold	Type	Length	Flow
1	Lateral #1 & #2 End-Feed, Lateral #3 Center-Feed	39	1.0
2	Lateral #1 & #2 End-Feed, Lateral #3 Center-Feed	45	1.25
3	Lateral #1 & #2 End-Feed, Lateral #3 Center-Feed	73	2.0



GLWGUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20866
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DATE	REVISION	BY	APPR.

PREPARED FOR:
 MB ORCHARD ESTATES, LLC
 1686 E. GUDE DRIVE
 ROCKVILLE, MARYLAND 20850
 PH: 301-762-9511
 ATTN: MARC QUINT

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22765.
 EXPIRATION DATE: MAY 26, 2020

SITE PLAN for BAT INSTALLATION
ORCHARD ESTATES
 LOT 8 (12402 All Daughters Lane)
 PLAT No. 19876-19877

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	RR-DEO	15112
DATE	TAX MAP - GRID	SHEET
JUNE 2018	40 - 18	1 OF 1

