

Bureau of Environmental Health
 8930 Stanford Boulevard, Columbia, MD 21045
 Main: 410-313-2640 | Fax: 410-313-2648
 TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
 Facebook: www.facebook.com/hocohealth

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 5/3/19 **ONSITE SEWAGE DISPOSAL SYSTEM** P 565472-A

APPROVAL DATE: 5/21/2019 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 13885 Mill Creek Court

SUBDIVISION: Crawford Subdivision LOT: 15 TAX ID: _____

CONTRACTOR: South Carroll Backhoe EMAIL: scbackhoe@comcast.com

CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157 PHONE: 410-596-3618

PROPERTY OWNER: NVR INC. EMAIL: _____

OWNER ADDRESS: 9720 Patuxent Woods Drive, Columbia, MD 21046 PHONE: 410-379-5956

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Babylon

PUMP MODEL: N/A PUMP SIZE N/A PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE 1.2

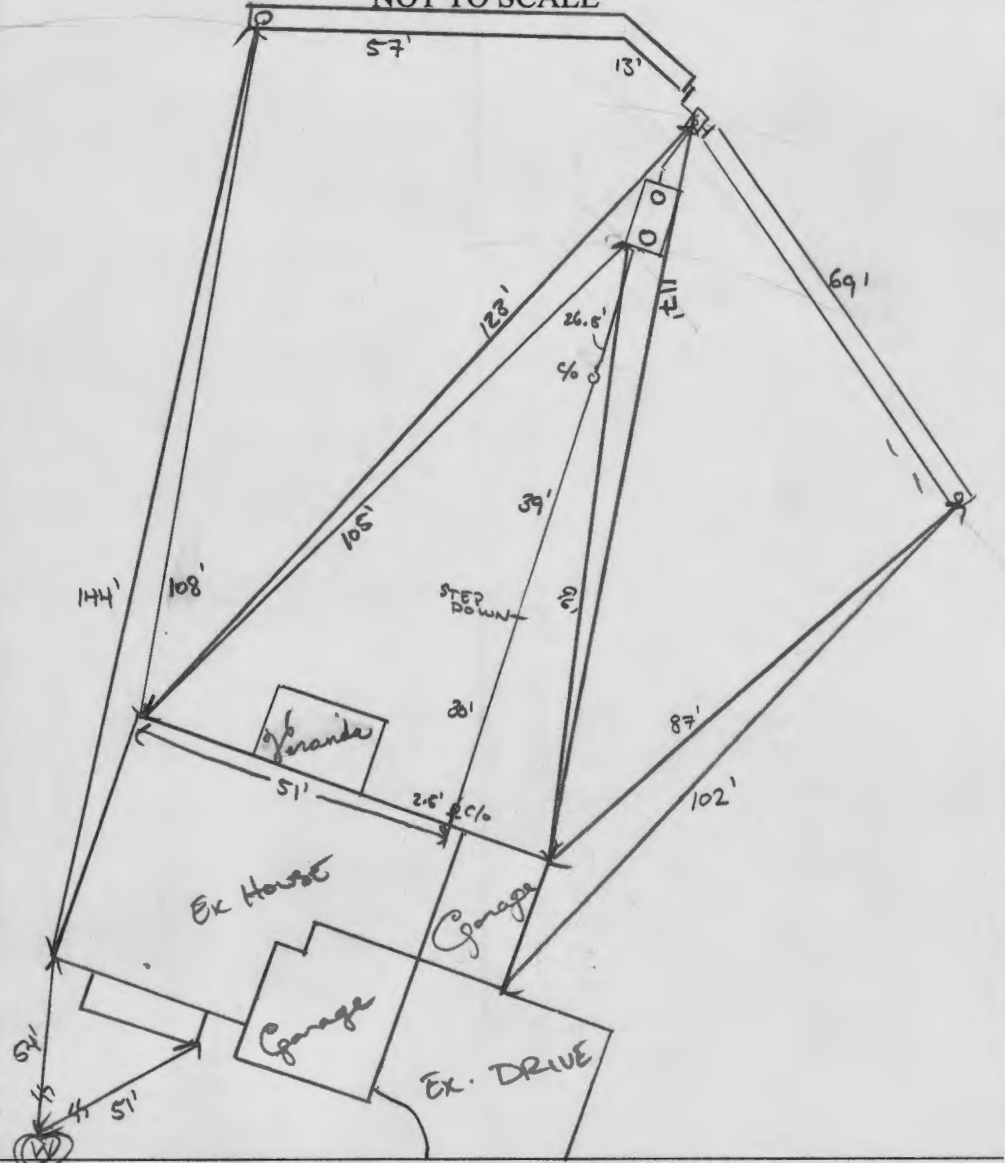
TRENCHES:	LINEAR FEET REQUIRED: <u>138.9</u>	INLET DEPTH: <u>2</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5.5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Install 2 trenches @ 69.5	

ISSUED BY: Hank Oswald ISSUE DATE: 5/3/19 EXPIRATION DATE: 5/3/20

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM
 ELECTRICAL PERMIT ISSUED E N/A
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.
 PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.
 CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	2'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		139'
ABSORPTION AREA		487 SF
DISTRIBUTION BOX LEVEL		SPEED
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	2.5'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT/BACK
6" PORT LOC	
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	4/10/2019

PUMP/SEPTIC TANK LEVEL

MANUFACTURER	
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

HO-17-0112 ROAD NAME MILL CREEK COURT

PRE-CONSTRUCTION: 5/10/2019 SDA WAS STAKED BY SURVEYOR - TANK STAKED LAID OUT TWO TRENCHES 70' ON CONTOUR. OK TO START (P)

INSTALLATION: 5/17/2019 SHC AND SEWER LINE INSTALLED. TANK SET AND D BOX SET. (P) 5/19/2019 MAJORITY OF TRENCHES COMPLETE. AWAITING STONE. (P) 5/21/2019 TRENCHES COMPLETE. D BOX LEVELED WITH SPEED LEVELS.

FINAL INSPECTOR *[Signature]* DATE OF APPROVAL 05/21/2019

S:\Survey Drawings\WALLCHECK\MILL CREEK-17071\WCK-15.dwg, 4/17/2019 10:40:04 AM, morgamb, 5501_SURVEY (COLOR).pc3, 1:1

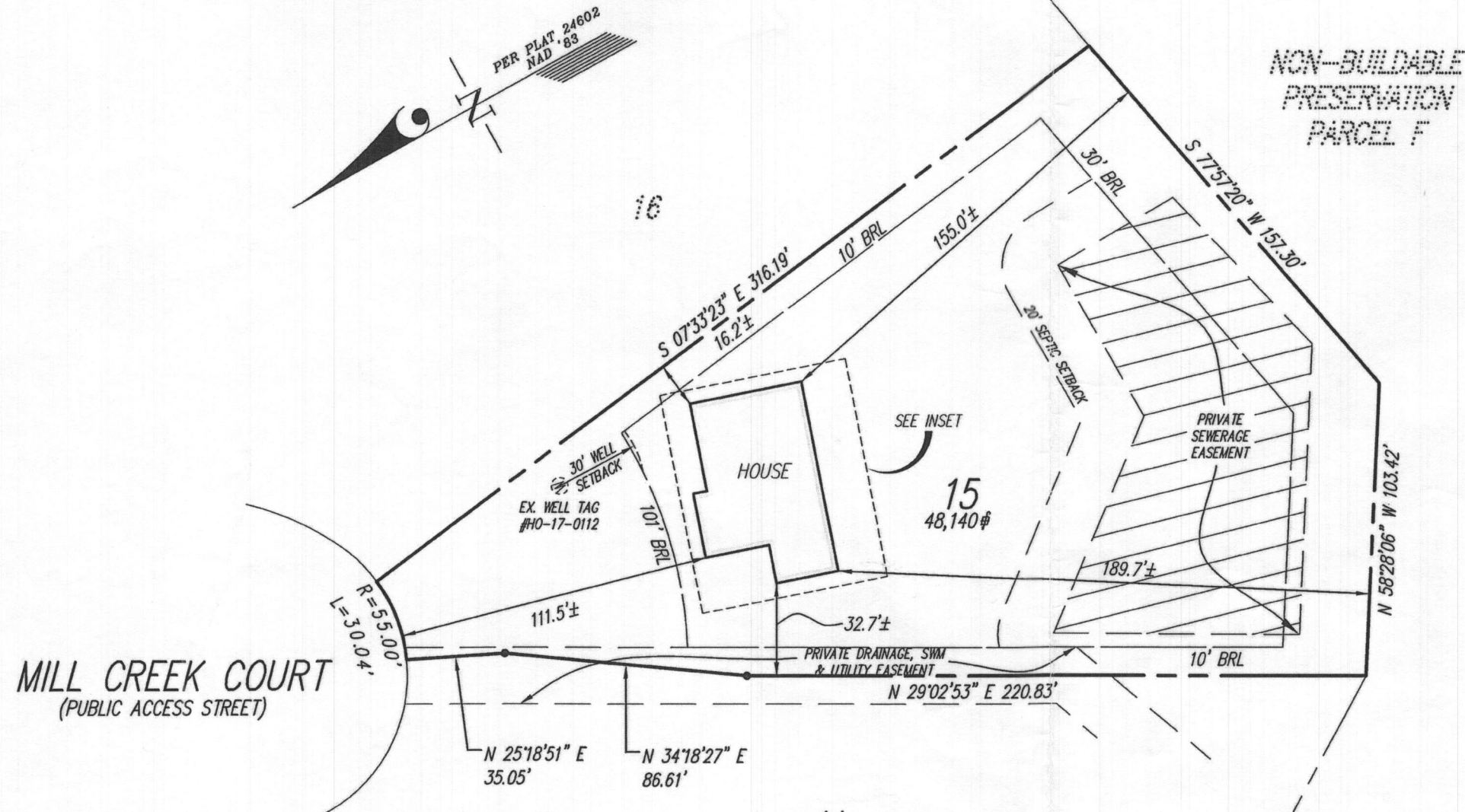
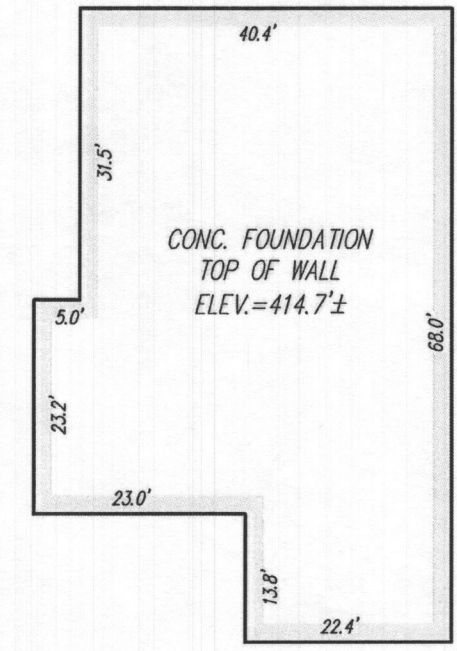
NOTES:

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.
SETBACK DISTANCES SHOWN HEREON ARE TO THE OUTERMOST FACE OF THE FOUNDATION WALLS AND HAVE AN ACCURACY OF ± 0.1' FOOT.

INSET 1"=20'



NON-BUILDABLE PRESERVATION PARCEL F

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY TO:
'NVR, INC.;

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

[Signature] 4/17/2019
For Gutschick, Little and Weber, P.A. :
Thomas C. O'Connor, Jr.,
Professional Land Surveyor, No. 10954 (EXP. DATE: 07/03/2020)

5/3/19
wall check
ok 11.0.

WALLCHECK
(SPECIAL PURPOSE SURVEY)

CRAWFORD SUBDIVISION
LOT 15
13885 MILL CREEK COURT

HOWARD COUNTY, MARYLAND

DATE OF LATEST FIELD WORK: 4/16/2019

G.L.W. FILE No. 17071

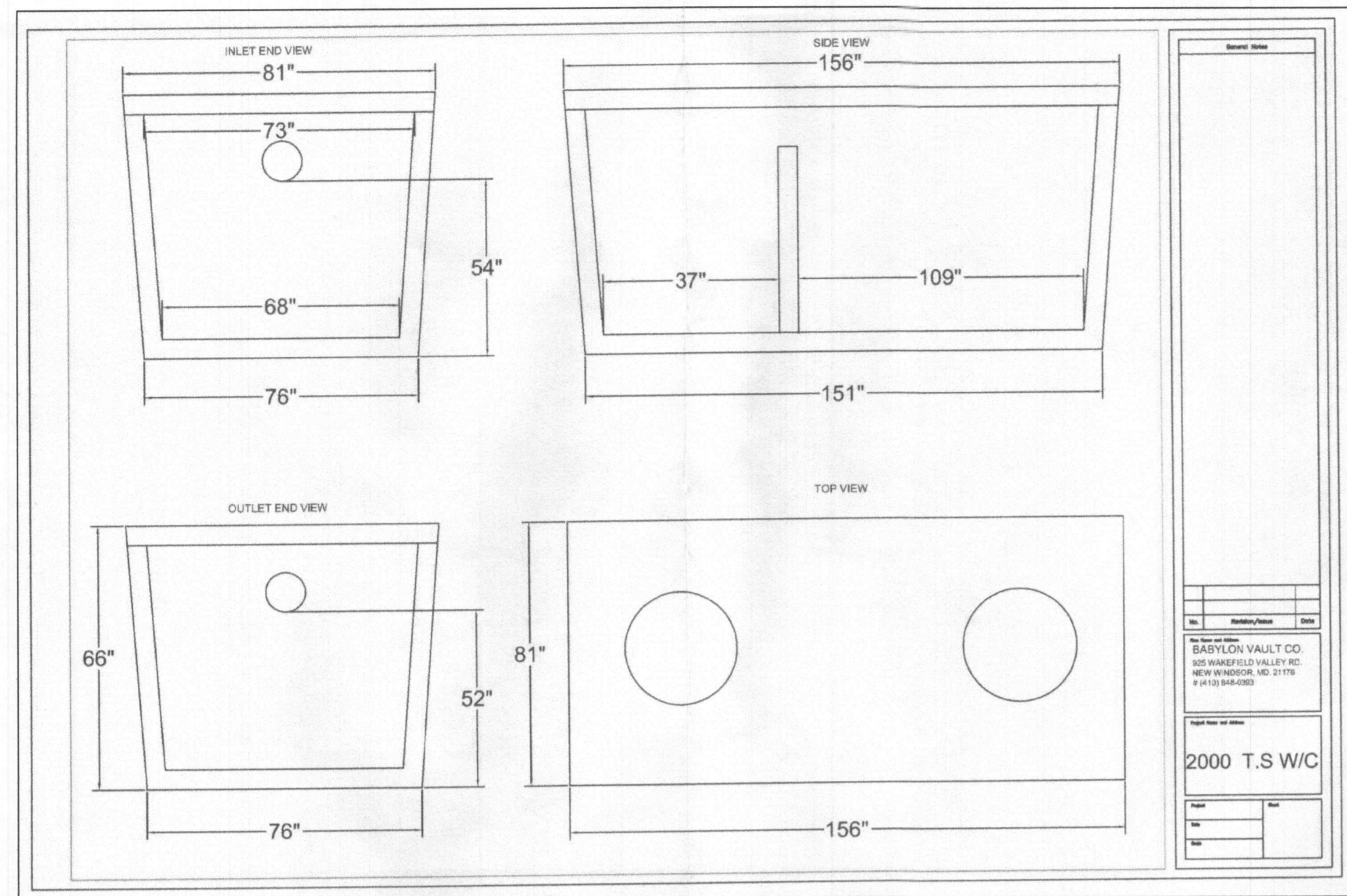
REFERENCE: PLAT No.: 24602

SCALE: 1"=50'

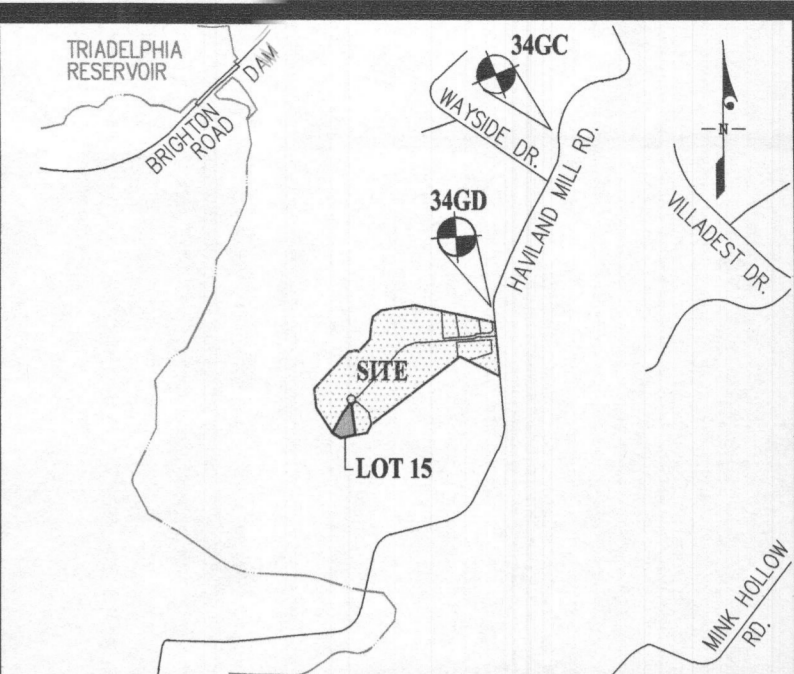
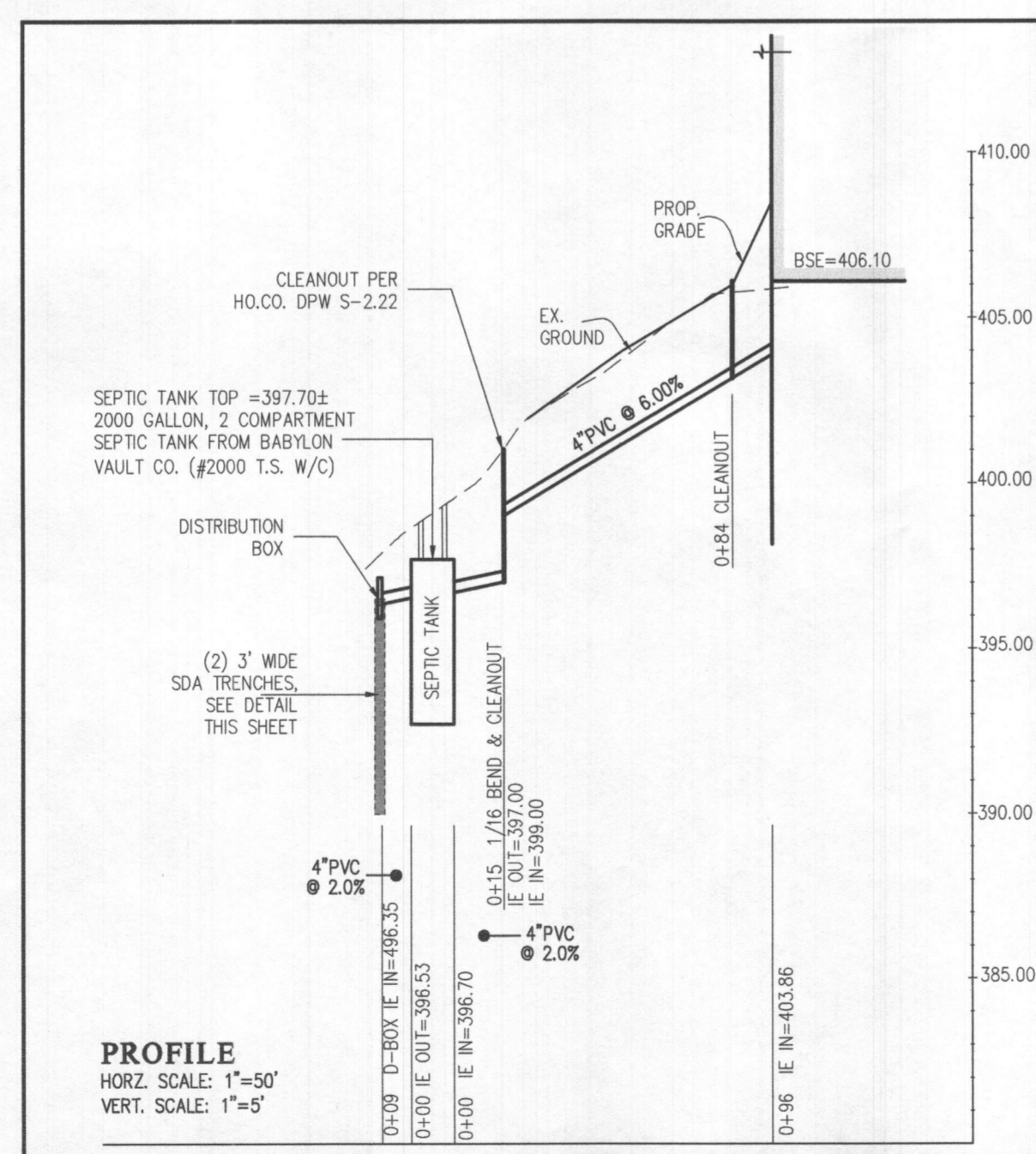
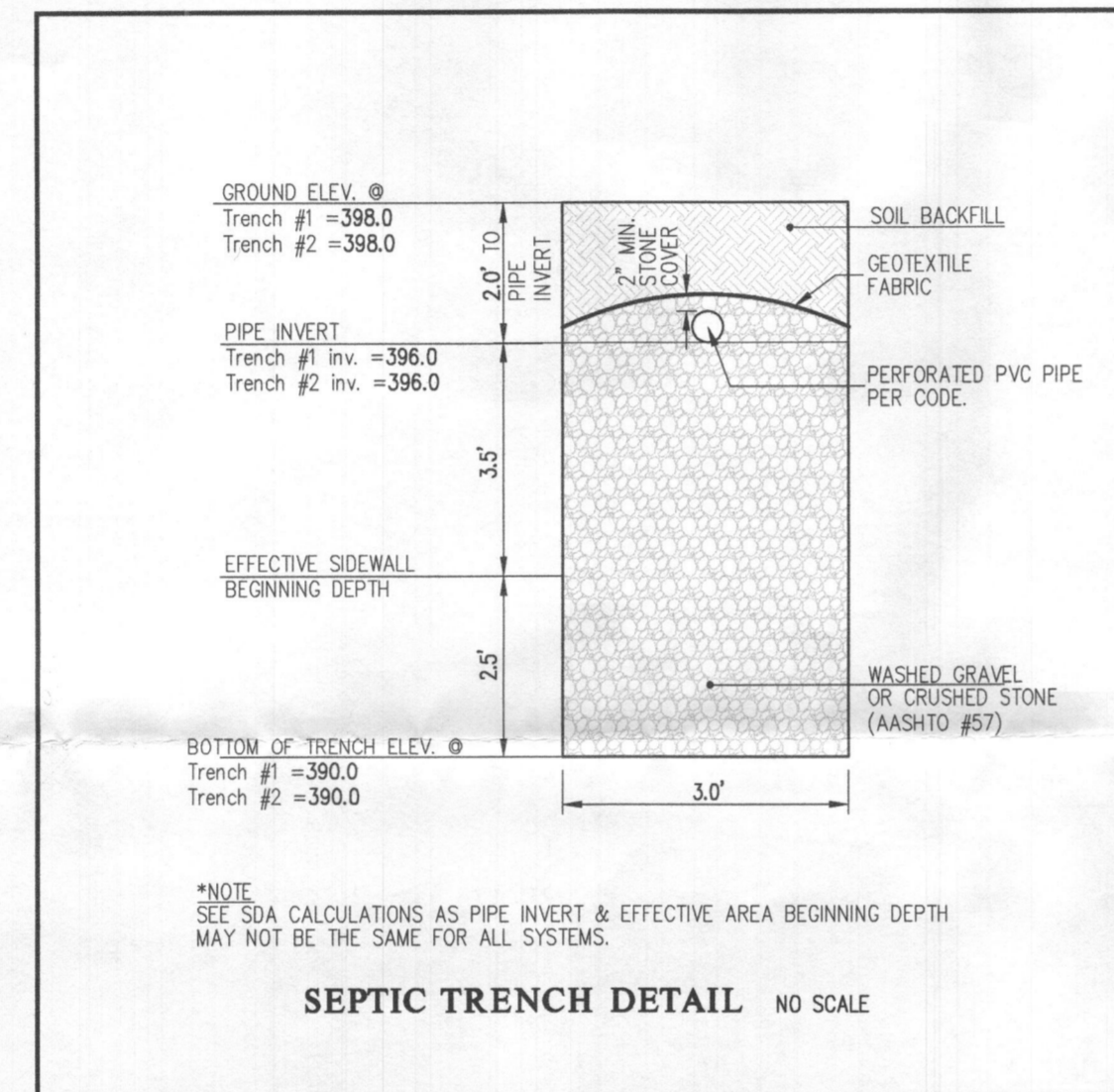


DES.	PREPARED FOR: NVR, INC. 9720 PATUXENT WOODS DRIVE COLUMBIA, MD 21046
DRN. MAB	
CHK.	

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



CRAWFORD SUBDIVISION (Mill Creek)			
SDA Trench Size Calculations (Lot 15)			
System Input Information	Initial System	Replacem't System No.1	Replacem't System No.2
Application Rate	1.2	1.2	1.2
Effective area beginning depth	5.5	3.0	3.0
Effective area maximum bottom depth	8.0	8.0	8.0
Number of Bedrooms	6	6	6
Design flow at 150 gal./day/bedroom	900	900	900
Absorption Trench Calculations	Conventional	Conventional	Conventional
Drainfield area required (Design flow/application rate)	750 s.f.	750 s.f.	750 s.f.
Effluent pipe depth to invert Cannot exceed 2' if LPD. Cannot exceed 4', if conventional. Field run top to at 1-ft interval is required if depth is less 2'.	2.0	3.0	3.0
Effective sidewall depth "D" Depth between the effective beginning depth or pipe depth (which ever is deeper) and maximum trench bottom.	2.5	5.0	5.0
Trench Width "W" (2 or 3 feet)	3.0	3.0	3.0
Sidewall Reduction Percent = (W+2)/(W+1+2D)	55.56%	35.71%	35.71%
Linear feet of trench required = (drainfield area x sidewall reduction)/W	138.9	89.3	89.3
Trench Layout Information			
Number of trenches to use	2	2	2
Min. length (linear feet)	69.5	44.7	44.7
Total (linear feet)	139.0	89.4	89.4
Minium Trench Spacing: For trenches with no sidewall credit the spacing is 6' for a 2' wide trench and 9' for a 3' wide trench (measured edge to edge). All trenches utilizing sidewall reduction credit must be spaced a min. of 10' for effective sidewall not over 3.5'. If >3.5', then spacing formula is 2D+W up to a maximum of 18'.	10.0	13.0	13.0



VICINITY MAP		ADC MAP: 30
SCALE: 1" = 2,000'		GRID: C5

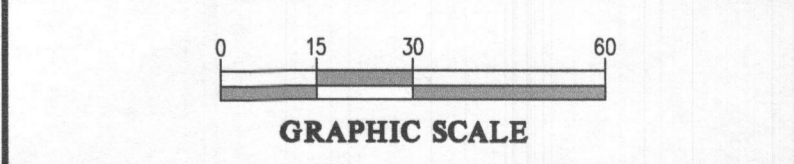
BENCHMARKS	
34GC	ELEV. 482.873 N = 554,882.960 E = 1,314,248.668
34GD	ELEV. 465.288 N = 553,733.762 E = 1,313,736.594

LEGEND	
---	EXISTING CONTOUR
- - -	PROPOSED CONTOUR
---	FIRST FLOOR ELEVATION
---	TOP OF FOUNDATION WALL
---	BASEMENT SLAB ELEVATION
[Hatched Box]	PRIVATE SEWAGE DISPOSAL AREA
[Solid Line]	INITIAL SYSTEM 3' WIDE TRENCH
[Dashed Line]	1st REPLACEMENT SYSTEM TRENCH
[Dotted Line]	2nd REPLACEMENT SYSTEM TRENCH
P#	PERCOLATION TEST HOLES (PASSED)
P#	PERCOLATION TEST HOLES (FAILED)
W	EXISTING WELL LOCATION

- NOTES:**
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
 - THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
 - THE WELL TAG (#10-17-0112) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
 - ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.



Approved Septic System Plan
 Howard County Health Department
 Mark Oswald, 1/29/19
 Signature Date



L:\CADD\DRAWINGS\17071\PLANS BY GLW\SEPTIC PLANS\LOT 15\17071.MC_LOT 15 SEPTIC.dwg, MC_LOT 15

GLW
 PLANNING | ENGINEERING | SURVEYING
 9809 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20886 | GLWPA.COM
 PHONE: 301-421-4024 | BALT: 410-680-1820 | DC/VA: 301-889-2524 | FAX: 301-421-4186

DESIGNED BY:	DATE	REVISION	BY	APPR.
MBT				
DRAWN BY:				
KLP				
CHECKED BY:				
CKG				

PREPARED FOR:
 NVR INC.
 9720 PATUXENT WOODS DRIVE
 COLUMBIA, MARYLAND 21046
 PH: 410-379-5956

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. 12875.
 EXPIRATION DATE: MAY 26, 2020
 1/22/19

ON SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
CRAWFORD SUBDIVISION
 LOT 15 (13885 MILL CREEK COURT)
 PLAT No. 24600-24607
 ELECTION DISTRICT No. 5
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1"=30'	RR-DEO	17071
DATE	TAX MAP - GRID	SHEET
JAN. 2019	34&39-19&6	1 OF 1