



SANITARY M.H.
TOP=546.31
FL=525.24

SANITARY M.H.
TOP=536.83
FL=522.46

SANITARY M.H.
TOP=492.89
FL=508.07

SANITARY M.H.
TOP=476.84
FL=476.84

SANITARY M.H.
TOP=480.41
FL=459.41

N/F
A/J MO PROPERTIES, LLC
DB 7345 PG 703

N/F
THOMAS L. & CAROL A. SCHNEIDER
DB 924 PG 1874

ENGINEER TO BE NOTIFIED UPON REMOVAL OF EXISTING HEADWALL TO FINALIZE DESIGN OF STRUCTURE WH 7. DESIGN TO BE PER MISSOURI STANDARDS AND APPROVED BY THE CITY OF OFALLON PRIOR TO CONSTRUCTION.

The Villas at Aragon Grading Quantity Estimate

Fill Factor =	1.10
Cut Factor =	1.00
Surface Cut/Fill Calculations	
Area =	113,378 yd ²
Total Cut =	107,929 yd ³
Total Fill =	101,918 yd ³
Balance =	6,011 yd ³

Line Table

Line #	Length (R/S)	Direction (S)	Direction (R)
L1	21.56	S58°41'23"E	S58°45'57"E
L2	110.49	S66°41'23"E	S66°45'57"E
L3	19.71	S43°04'28"W	S43°00'00"W
L4	20.70	S46°55'32"E	S47°00'00"E
L5	41.42	S01°55'32"E	S02°00'00"E
L6	41.42	S43°04'28"W	S43°00'00"W
L7	35.72	S88°04'28"W	S88°00'00"W
L8	50.00	S01°55'32"E	S02°00'00"E
L9	10.71	N88°04'28"E	N88°00'00"E
L10	41.42	S46°55'32"E	S47°00'00"E
L11	41.42	S01°55'32"E	S02°00'00"E
L12	41.42	S43°04'28"W	S43°00'00"W
L13	10.71	S88°04'28"W	S88°00'00"W
L14	44.40	S01°55'32"E	S02°00'00"E
L15	50.00	N88°04'28"E	N88°00'00"E
L16	54.80	N67°42'28"E	N67°38'00"E

Curve Table

Curve #	Radius (R/S)	Length (R/S)	Chord Bearing	Chord Length
C1	30.00	47.12	S46°55'32"E	42.43
C2	111.01	39.46	N77°53'28"E	39.25
C3	90.00	141.37	S67°17'32"E	127.28
C4	25.00	31.47	S58°21'00"E	29.43

GRADING CALCULATION NOTES:
1. THE GRADING QUANTITIES SHOWN ARE FOR ESTIMATE PURPOSES ONLY AND FINAL QUANTITIES WILL CHANGE BASED ON THE FINAL DESIGN AND ACTUAL SIZE OF SITE IMPROVEMENTS SUCH AS SEWERS AND FOUNDATIONS. ADDITIONAL VARIABLES THAT IMPACT THE GRADING QUANTITIES SUCH AS TYPE OF MATERIAL EXCAVATED WILL ALSO IMPACT FINAL GRADING QUANTITIES.

GEOTECHNICAL NOTES:
1. EXISTING UNSUITABLE FILL WERE ENCOUNTERED IN 4 OF 8 BORINGS COMPLETED BY JACOBI GEOTECHNICAL ENGINEERING, LLC PER THE GEOTECHNICAL REPORT TITLED "EXPLORATION OF SUBSURFACE CONDITIONS AND FOUNDATION RECOMMENDATIONS", JGE No. 20242.1 DATED NOVEMBER 2020.
2. THE APPROXIMATE LOCATIONS OF BORINGS COMPLETED BY JACOBI GEOTECHNICAL ENGINEERING, LLC CAN BE SEEN ON THE PLAN. BORINGS WHICH ENCOUNTERED UNSUITABLE FILL WERE B-1, B-2, B-5 & B-6.
3. CONTRACTOR TO REMEDIATE UNSUITABLE SOILS AS DESCRIBED IN THE AFOREMENTIONED GEOTECHNICAL REPORT (JGE No. 20242.1). AREAS UNDER PROPOSED ROADWAYS SHOULD ALSO BE CONSIDERED AS IMPROVEMENT AREAS WHEREIN UNSUITABLE FILL SHALL BE REMEDIATED PER THE REPORT RECOMMENDATIONS.

CALL MISSOURI ONE-CALL SYSTEMS INC. TWO FULL WORKING DAYS IN ADVANCE OF STARTING
WORK MISSOURI ONE-CALL 1-800-344-7483

THE UNDERGROUND UTILITIES SHOWN HEREIN WERE PLOTTED FROM AVAILABLE INFORMATION AND DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, OR NON EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE OR OTHER UTILITIES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND UTILITIES IN THE FIELD, SHOWN OR NOT SHOWN, PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319, RSMO.

Lombardo
H · O · M · E · S
4 Research Park Drive, Suite 130
St. Charles, MO 63304
Phone: (636) 265-2710

VOLZ
INCORPORATED
10849 Indian Head Indl. Blvd.
St. Louis, Missouri 63132
314.890.1250 Fax
www.volzinc.com
Aulicity #203

RYAN L. HOLMES
Professional Engineer
PE-2017018988

THE VILLAS AT ARAGON
VETERANS MEMORIAL PARKWAY
OF ALLON, MO 63366

GRADING PLAN

Design By: R/LH
Drawn By: R/LH
Checked By: R/LH

Permit No. GR22-00001
Vote Project # 22649

03/31/22
G05