SERPA QUARRY
2 LOT VESTING TENTATIVE MAP
APN: 029-34-004

OWNER/DEVELOPER:
GOKULAM LLC,
680 E.CALAVERAS BLVD.
MILIPITAS , CA 95035
PHONE-(408) 833-9743
EMAIL: gokulam@ihf-usa.org

CIVIL ENGINEER:
C2G/CIVIL CONSULTANTS GROUP, INC
4444 SCOTTS VALLEY DRIVE STE. 6
SCOTTS VALLEY, CA 95066
OFFICE: (831) 438-4420

SURVEYOR
ALPHA LAND SURVEYS, INC.
4444 SCOTTS VALLEY DRIVE STE. 7
SCOTTS VALLEY, CA 95066
OFFICE: (831) 438-4453

INDEX OF SHEETS

NOTES

A.P.N.	029-34-004
PRESENT USE:	AGRICULURE/RANCH LAND/ QUARRY RECLAMATION
PROPOSED USE:	SINGLE FAMILY RESIDENTIAL WITH ANCILLARY USES
PRESENT ZONING:	HS-D2
PROPOSED ZONING:	HS-D2
SANITARY SEWER:	SEPTIC
WATER SUPPLY:	PRIVATE WELL
GAS & ELECTRIC:	P.G. & E.
TELEPHONE:	A.T.&T.
EXISTING IMPROVEMENTS:	ACCESSORY STRUCTURES AS SHOWN
LOT A ACREAGE:	35.61 ACRES
ADDITION TO LOT A:	1.50 ACRES
TOTAL PROPOSED LOT A:	37.11 ACRES
LOT B ACREAGE:	43.32 ACRES
TOTAL PROJECT ACREAGE:	80.43 ACRES

GENERAL NOTES

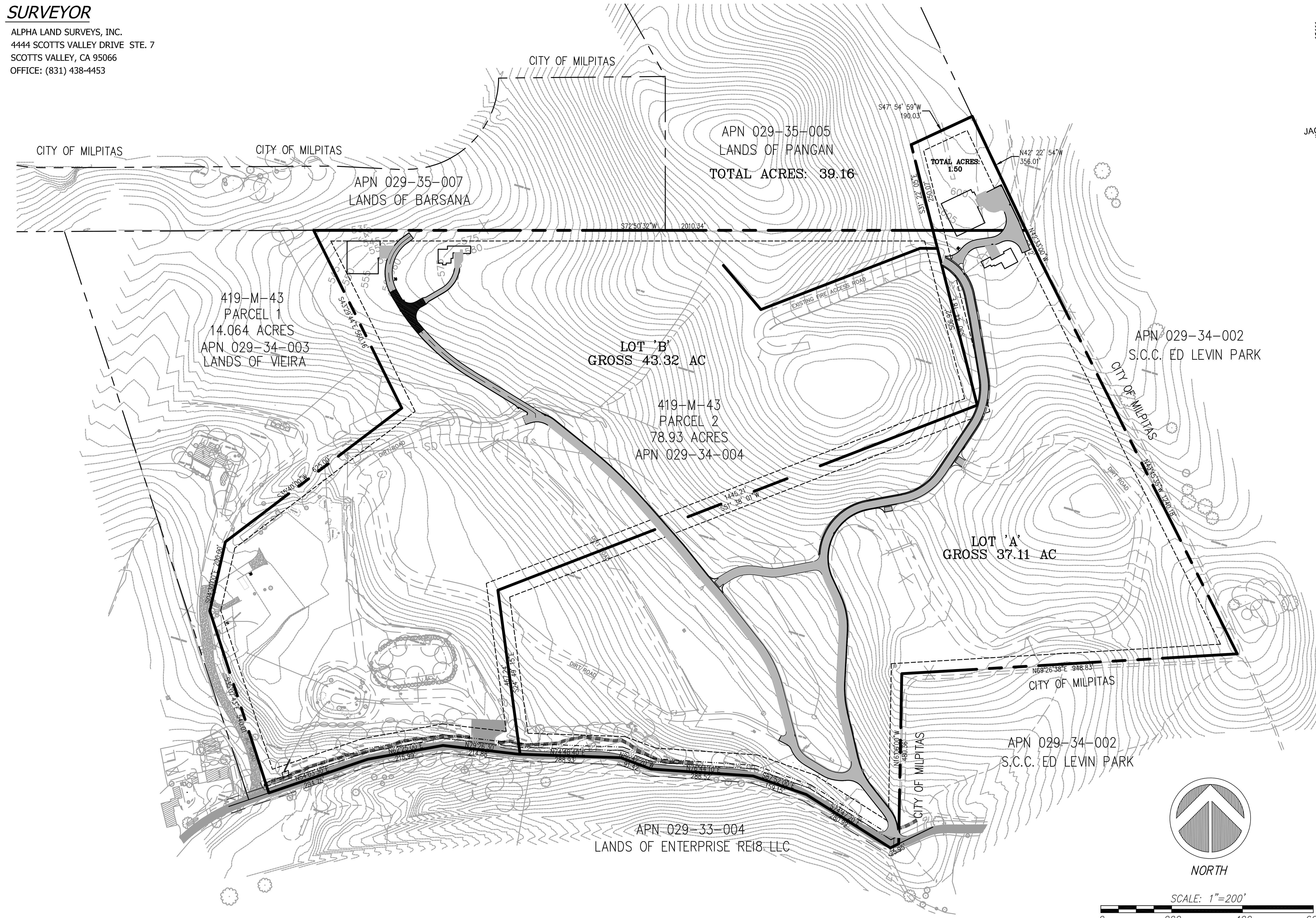
NO CHANGE TO THE GRADING PLAN SHALL BE PERMITTED WITHOUT PRIOR APPROVAL BY THE OWNER OR OWNERS REPRESENTATIVES.

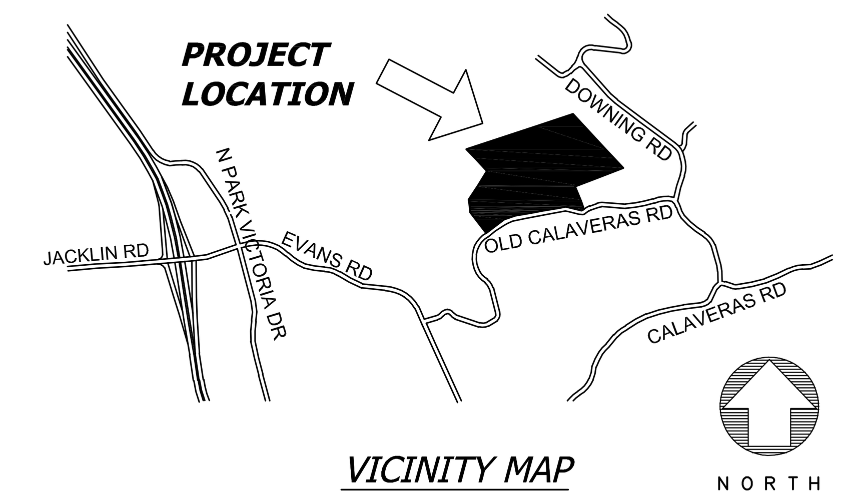
CONTRACTOR SHALL VERIFY LOCATIONS, ELEVATIONS AND INVERTS OF EXISTING UTILITY PRIOR TO COMMENCEMENT OF WORK AND SHALL NOTIFY OWNER OR OWNERS REPRESENTATIVES OF VARIANCE FROM THOSE SHOWN ON THE PLANS.

UNDERGROUND FACILITIES AND UTILITIES HAVE BEEN SHOWN BASED ON RECORD DRAWINGS AND VISIBLE EVIDENCE FOUND IN FIELD. NO WARRANTY IS MADE REGARDING THE COMPLETENESS OR ACCURACY OF SUCH INFORMATION. PRIOR TO CONSTRUCTION, DETERMINE THE EXACT LOCATION OF UNDERGROUND FACILITIES AND UTILITIES, AND PRESERVE SAME FROM DAMAGE. PRIOR TO CONSTRUCTION, VERIFY LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES AT THE CROSSING POINTS WITH PROPOSED UTILITIES. THE CONTRACTOR SHALL NOTIFY THE OWNER OR OWNERS REPRESENTATIVES IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE DRAWINGS AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITION HAS BEEN EVALUATED. CONTACT UNDERGROUND SERVICES ALERT (USA) (1-800-227-2600) TWO (2) WEEKS PRIOR TO DIGGING. REPAIR UNDERGROUND UTILITIES DAMAGED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES ASSOCIATED WITH CONTRACTOR'S FAILURE TO EXACTLY LOCATED AND PRESERVE UNDERGROUND FACILITIES AND UTILITIES.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES AND/OR AGENCIES TO VERIFY THE EXISTENCE AND/OR LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF WORK. AND SHALL NOTIFY U.S.A. @ (800) 227-2600 AT LEAST 48-HOURS IN ADVANCE OF EXCAVATION.

IF ANY INDICATIONS OF ARCHEOLOGICAL REMIANS ARE ENCOUNTERED DURING GRADING ACTIVITIES FOR ANY DEVELOPMENT WITHIN THE PROJECT SITE, ALL WORK SHALL BE HALTED WITHIN 200 FOOT RADIUS OF THE FIND. OWNER SHALL RETAIN A QUALIFIED ARCHEOLOGIST RETAINED TO DETERMINE THE NATURE OF THE DISCOVERY AND RECOMMEND APPROPRATE EVALUATION PROCEDURES.





VICINITY MAP
SCALE: NTS

CONTRACTOR RESPONSIBILITY

CONTRACTOR AGREES THAT HE SHOULD ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, AND THAT REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED DURING WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE DESIGN PROFESSIONALS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR DESIGN PROFESSIONAL.

DISCREPANCIES

IF THERE ARE ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK, THE CONTRACTOR SHALL BRING SUCH DISCREPANCIES TO THE DESIGN PROFESSIONAL FOR ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES, SUBCONTRACTORS, AND PERSONS ENGAGED UPON THIS CONTRACT.

CONSTRUCTION SURVEYING / STAKING

CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL SURVEYING AND OR STAKING BY A LICENSED SURVEYOR FOR ALL CONSTRUCTION PURPOSES.

ADDITIONAL NOTES

- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

- THE STANDARD SPECIFICATIONS AND DETAILS, LATEST EDITION, OF THE COUNTY OF SANTA CLARA SHALL GOVERN UNLESS OTHERWISE SPECIFIED HEREIN.

UNAUTHORIZED CHANGES AND USES

CAUTION: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THE PLANS

PROJECT EARTHWORK QUANTITIES

NOTE: THE EARTHWORK QUANTITIES SHOWN HEREON ARE EXCLUSIVE OF WALL FOOTINGS, EXISTING PAVEMENT REMOVAL AND OVER EXCAVATION AND RECOMPACTION, UTILITY TRENCH SPOILS & SOIL EXPANSION AND CONTRACTION FACTORS.

DESCRIPTION	CUT (cu.yds)	FILL (cu.yds)	NET (cu.yds)	MAX CUT (ft) HEIGHT	MAX FILL (ft) HEIGHT
LOT A - BUILDING PADS	245	144	101(C)	6	1
LOT A - DRIVEWAY IMP	381	449	68(F)	4	2
LOT B - BUILDING PADS	2150	1227	923(C)	8	6
LOT B - DRIVEWAY IMP	1846	2259	413(F)	4	7
TOTAL	4622	4223	399(C)		

NET VOLUME = 399 CU.YDS. OF CUT

THE ABOVE QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE NECESSARY CUT AND FILL TO ACCOMPLISH FINISH GRADE SHOWN ON THESE PLANS.

REVISIONS	BY

COVER

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
Exp. 6/30/23
CIVIL
STATE OF CALIFORNIA

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SERPA QUARRY
2-LOT VESTING TENTATIVE MAP
2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

Date:	06/03/21
Scale:	1" = 200'
Drawn:	DD
Job:	3007.01
Sheet:	C0.1

NOTES

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PROPOSED USE:	SINGLE FAMILY RESIDENTIAL WITH ANCILLARY USES
PRESENT ZONING:	HS-D2
PROPOSED ZONING:	HS-D2
SANITARY SEWER:	SEPTIC
WATER SUPPLY:	PRIVATE WELL
GAS & ELECTRIC:	P.G. & E.
TELEPHONE:	A.T.&T.
EXISTING IMPROVEMENTS:	ACCESSORY STRUCTURES AS SHOWN
TOTAL ACREAGE:	78.93± ACRES

OWNER/DEVELOPER:

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LEGEND

- EVAE / PUE
- BOUNDARY LINE
- LOT LINE
- EXCLUSIVE USE EASEMENT (E.U.E.)
- EXISTING MONUMENTATION
- FUTURE MONUMENTATION

SITE PLAN KEY NOTES

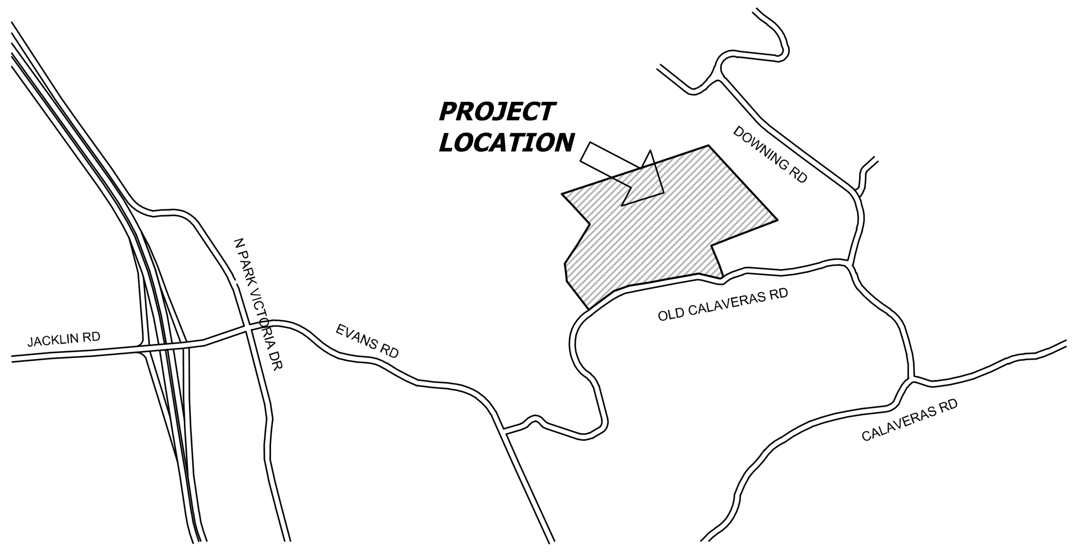
1 FIRE TRUCK ACCESS ROAD

ABBREVIATIONS

PUE	PUBLIC UTILITY EASEMENT
EVAE	EMERGENCY VEHICLE ACCESS EASEMENT
APN	ASSESSORS PARCEL NUMBER
DOC	DOCUMENT
PM	PARCEL NUMBER

STATEMENT OF PROPOSED IMPROVEMENTS:

THE FOLLOWING IMPROVEMENTS ARE BEING PROPOSED FOR THIS PROJECT - TWO EXISTING GRAVEL ROADS ARE TO BE PAVED PROVIDING FIRE ACCESS TO THE TWO LOTS BEING GRADED FOR DEVELOPMENT. DOMESTIC WATER/FIRE SERVICE HAS BEEN ESTABLISHED FROM TWO EXISTING WELLS TO SERVICE THE PROPOSED LOTS. A SEPTIC PLAN HAD BEEN DEVELOPED FOR LOT A AND LOT B DEVELOPMENTS



VICINITY MAP

SCALE: NTS

OWNER SIGNATURE

OWNER ~~PAjay Deb~~ DATE 7/7/2021

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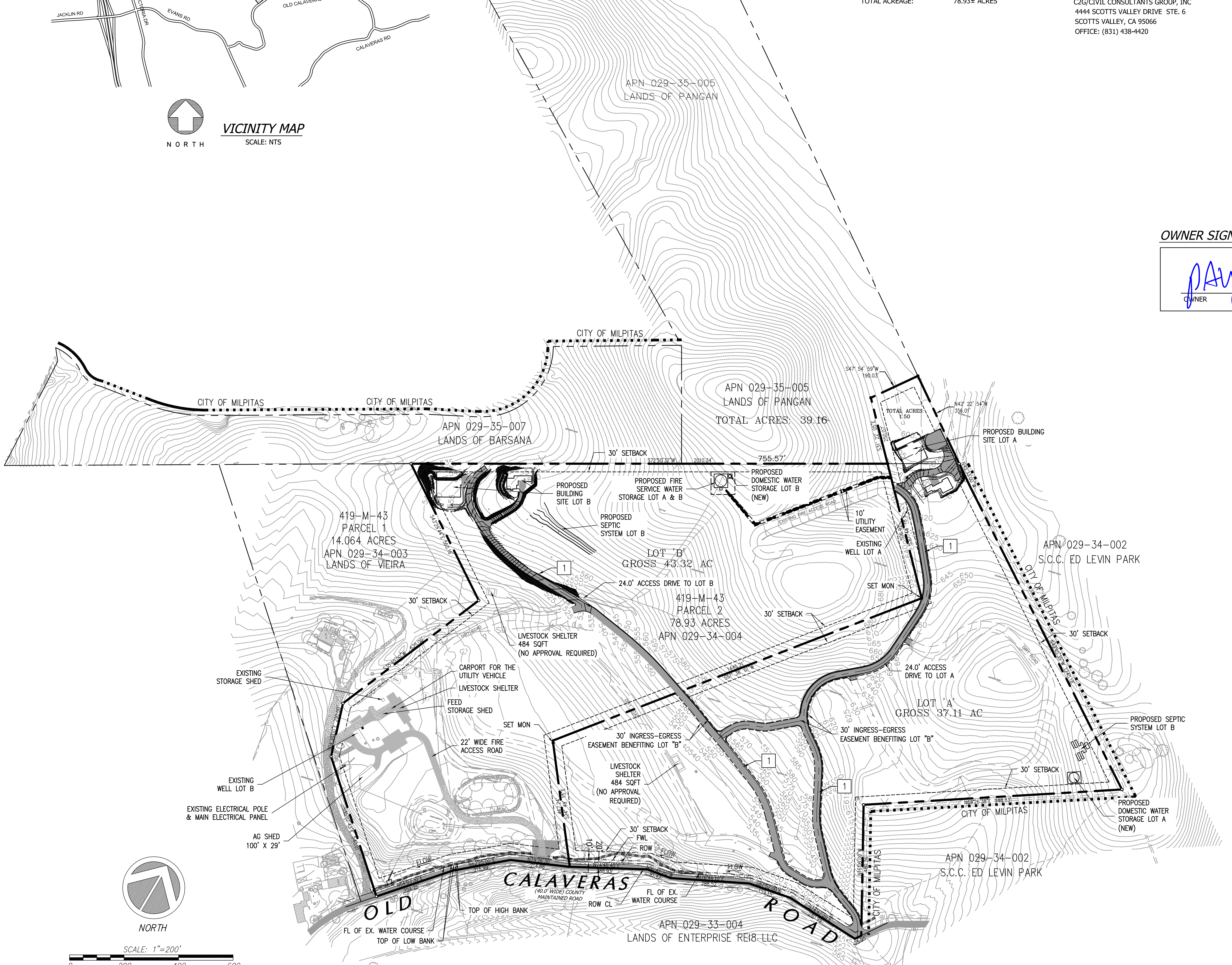
EXISTING IMPROVEMENTS:	ACCESSORY STRUCTURES AS SHOWN
TOTAL ACREAGE:	80.43 ACRES

BEING ALL OF PARCEL 2 OF CERTAIN PARCEL MAP, RECORDED IN BOOK 419 OF MAPS, PAGE 43, SANTA CLARA COUNTY RECORDS.

BASIS OF BEARING
THE BEARING N69°26'38"E BETWEEN POINTS AC14 AND AC15 IN THE GENERAL WESTERLY BOUNDARY OF THE PARCEL OF LAND AS SHOWN UPON PARCEL MAP, RECORDED IN BOOK 419 OF MAPS, PAGE 43, SANTA CLARA COUNTY RECORDS



REVISIONS	BY

VESTING TENTATIVE MAP

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
Exp. 6/30/23
CIVIL
STATE OF CALIFORNIA

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SERPA QUARRY
2-LOT VESTING TENTATIVE MAP
2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

Date:	06/03/21
Scale:	1" = 200'
Drawn:	DD
Job:	3007.01
Sheet:	C0.2
Of	17 Sheets

SLOPE-DENSITY CALCULATIONS

$$S = \frac{0.00229 * I * L}{A} \qquad a = \frac{1}{0.0609375 - (0.00109375 * S)} \qquad DU = \frac{A}{a}$$

S = AVERAGE SLOPE OF THE AREA IN PERCENT
I = IS THE CONTOUR INTERVAL IN FEET
L = IS THE COMBINED LENGTH OF CONTOUR LINES IN FEET
A = AREA IN ACRES

EXISTING LOT (APN 029-34-004)

$$S = \frac{0.00229 * 2 * 359{,}012}{78.93 \text{ ACRES}} = 20.83\% \text{ AVE. SLOPE} \qquad a = \frac{1}{0.0609375 - (0.00109375 * 20.83)} = 26.21 \qquad DU = \frac{78.93}{26.21} = 3.01$$

POSSIBLE LOTS = 3

EXISTING LOT (APN 029-35-005)

$$S = \frac{0.00229 * 2 * 192{,}268}{39.16 \text{ ACRES}} = 22.49\% \text{ AVE. SLOPE} \qquad a = \frac{1}{0.0609375 - (0.00109375 * 22.49)} = 27.52 \qquad DU = \frac{39.16}{27.52} = 1.42$$

POSSIBLE LOTS = 1

EXISTING LOT (APN 029-34-004) AFTER LLA

$$S = \frac{0.00229 * 2 * 361{,}876}{80.43 \text{ ACRES}} = 20.61\% \text{ AVE. SLOPE} \qquad a = \frac{1}{0.0609375 - (0.00109375 * 20.59)} = 26.04 \qquad DU = \frac{80.43}{26.04} = 3.08$$

POSSIBLE LOTS = 3

EXISTING LOT (APN 029-35-005) AFTER LLA

$$S = \frac{0.00229 * 2 * 189{,}506}{37.65 \text{ ACRES}} = 23.05\% \text{ AVE. SLOPE} \qquad a = \frac{1}{0.0609375 - (0.00109375 *23.05)} = 27.99 \qquad DU = \frac{37.65}{27.99} = 1.34$$

POSSIBLE LOTS = 1

PROPOSED LOT A

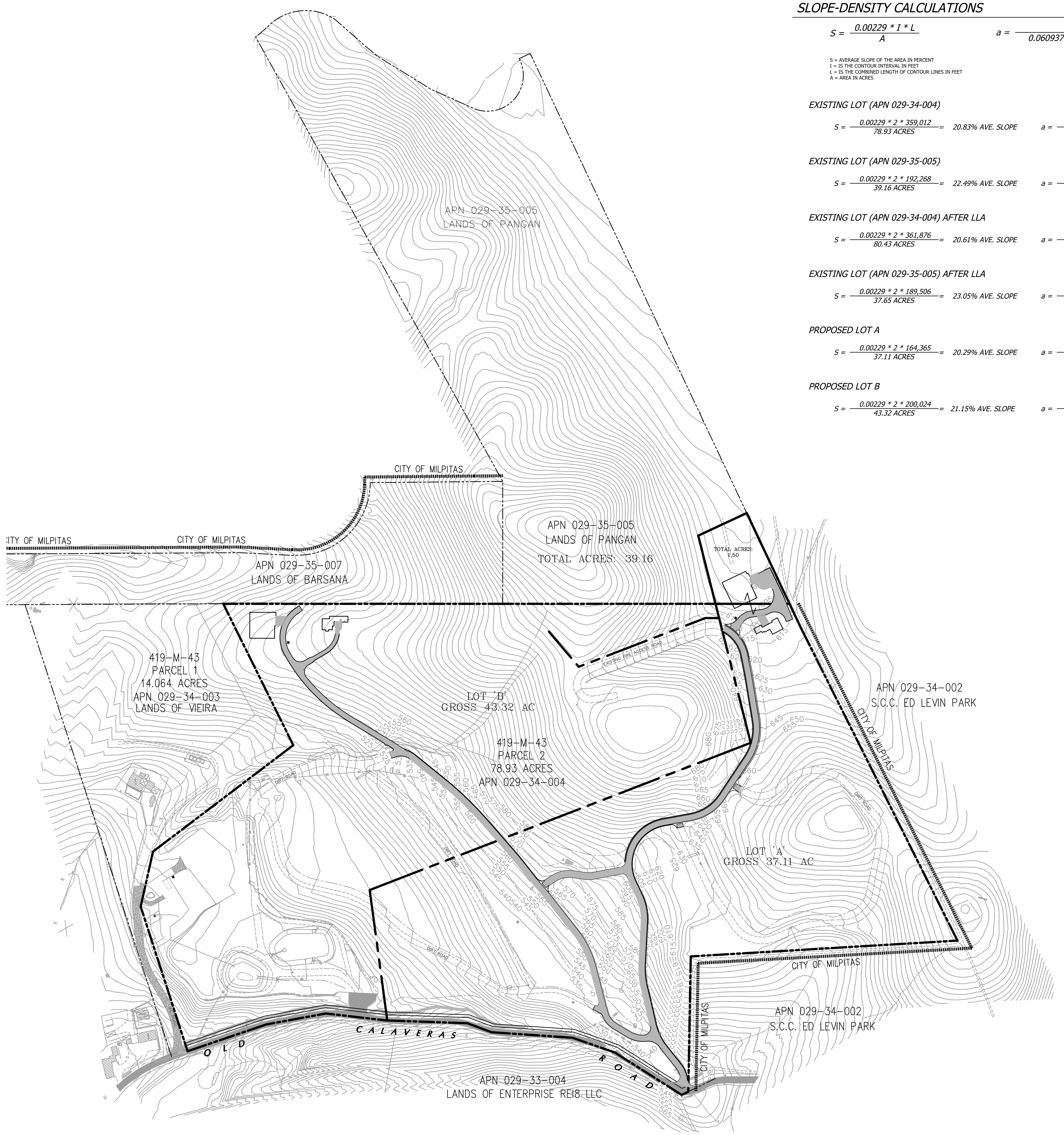
$$S = \frac{0.00229 * 2 * 164{,}365}{37.11 \text{ ACRES}} = 20.29\% \text{ AVE. SLOPE} \qquad a = \frac{1}{0.0609375 - (0.00109375 *20.29)} = 25.81 \qquad DU = \frac{37.11}{25.29} = 1.47$$

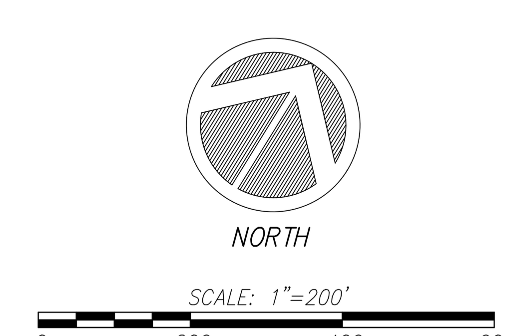
POSSIBLE LOTS = 1

PROPOSED LOT B

$$S = \frac{0.00229 * 2 * 200{,}024}{43.32 \text{ ACRES}} = 21.15\% \text{ AVE. SLOPE} \qquad a = \frac{1}{0.0609375 - (0.00109375 *21.15)} = 26.45 \qquad DU = \frac{43.32}{26.45} = 1.64$$

POSSIBLE LOTS = 1





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REVISIONS	BY

SLOPE DENSITY CALCULATIONS MAP

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
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CIVIL
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SERPA QUARRY
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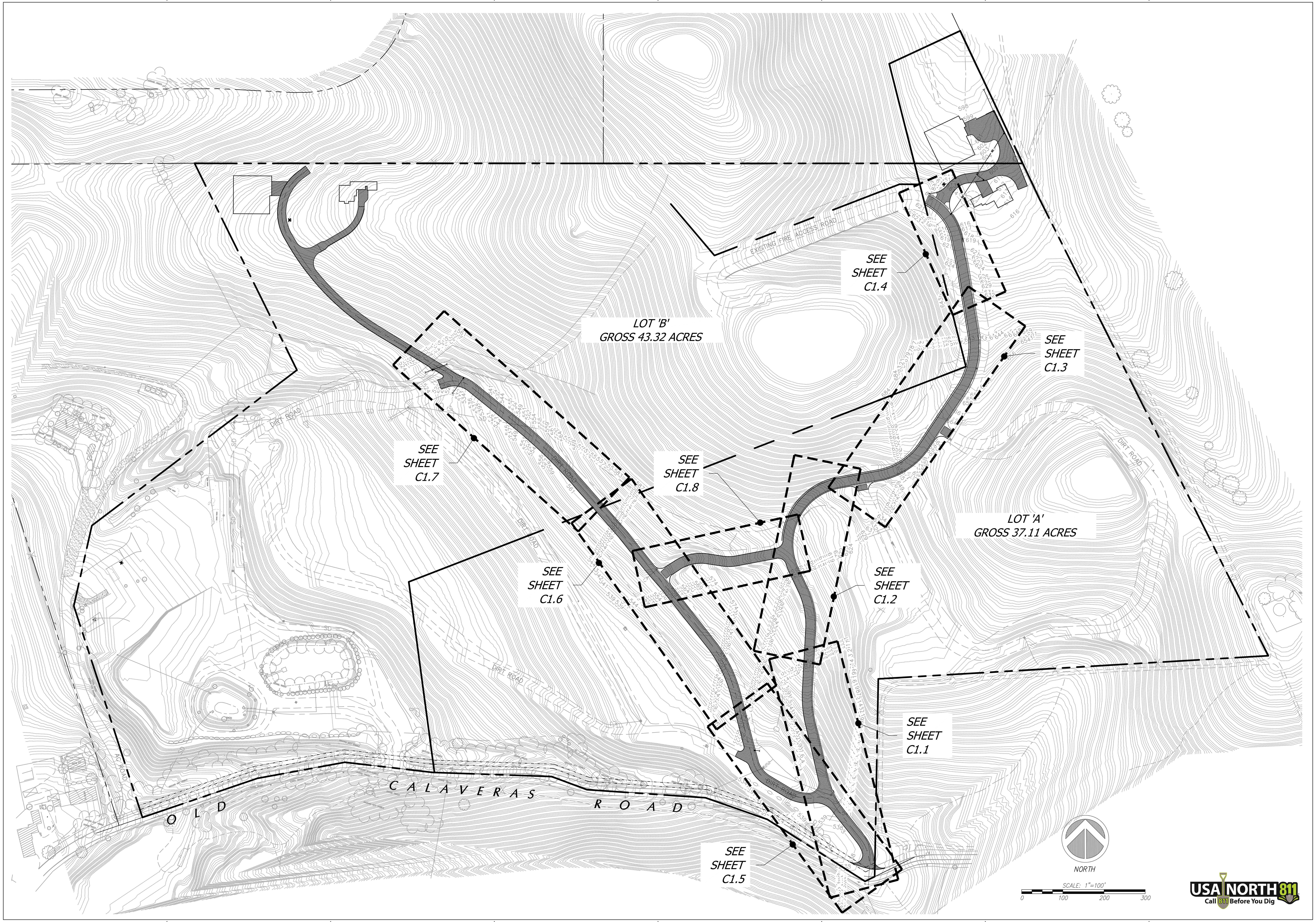
Of	17 Sheets



REVISIONS	BY

PLAN AND PROFILE INDEX

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
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Last Plotted: Tue Jun 29, 2021 – 1:38pm By: jamie

SERPA QUARRY
2-LOT VESTING TENTATIVE MAP
2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

Date:	06/03/21
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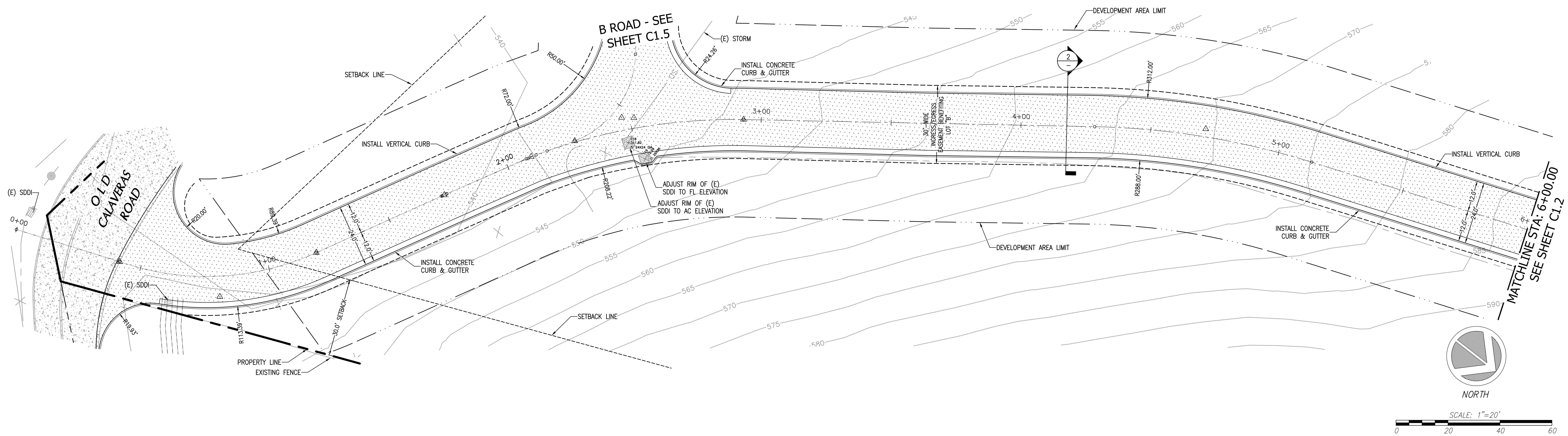

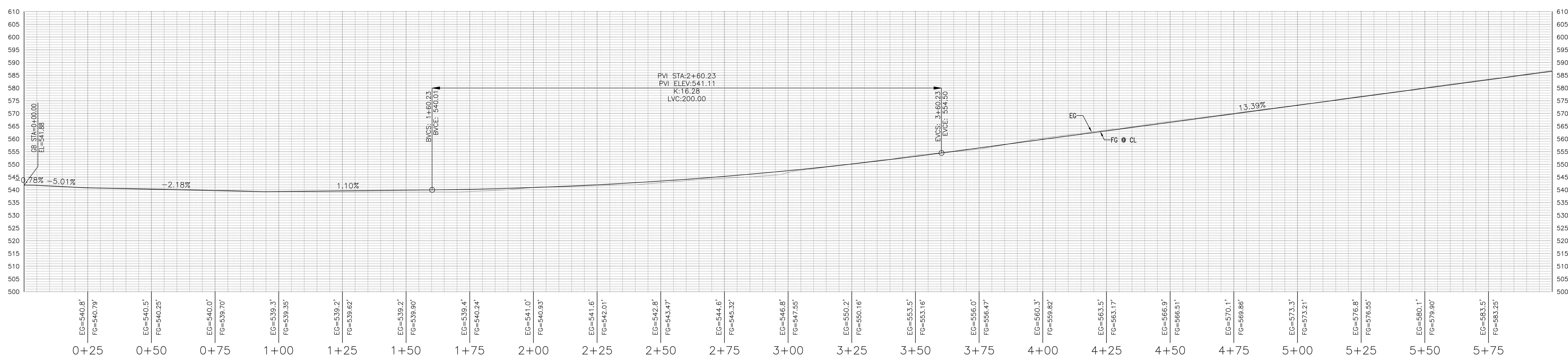

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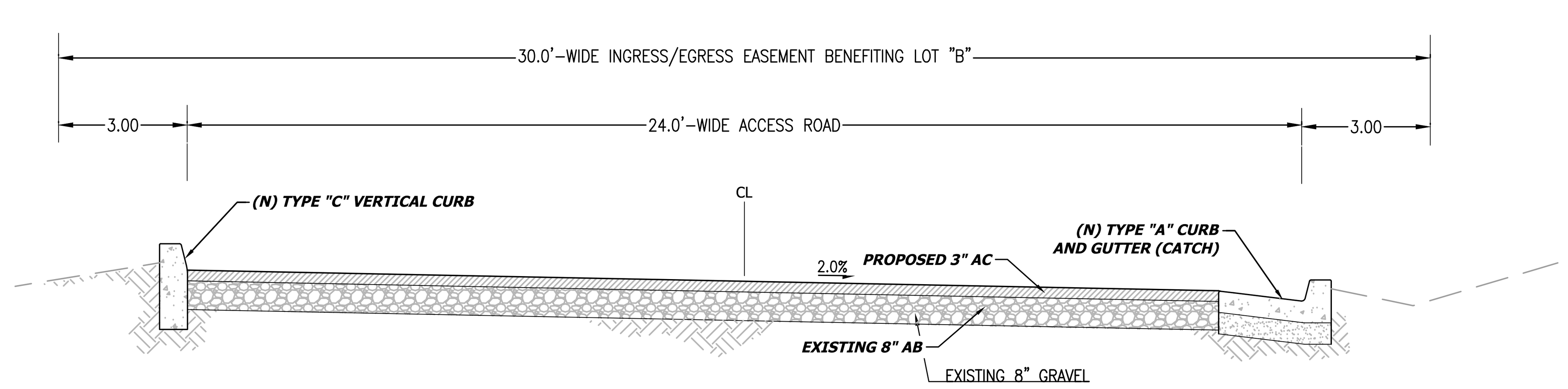

2 ACCESS ROAD SECTION

Scale: NTS

USA NORTH 811 Call 811 Before You Dig

REVISIONS	BY

LOT A ROAD PLAN AND PROFILE STA.:0+00.00-6+00.00

REGISTERED PROFESSIONAL ENGINEER TODD R. CREAMER No. C 64561 Exp. 6/30/23 CIVIL STATE OF CALIFORNIA

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SERPA QUARRY 2-LOT VESTING TENTATIVE MAP 2425 OLD CALAVERAS ROAD, MILPITAS APN: 029-34-004

Date: 06/03/21
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Drawn: DD
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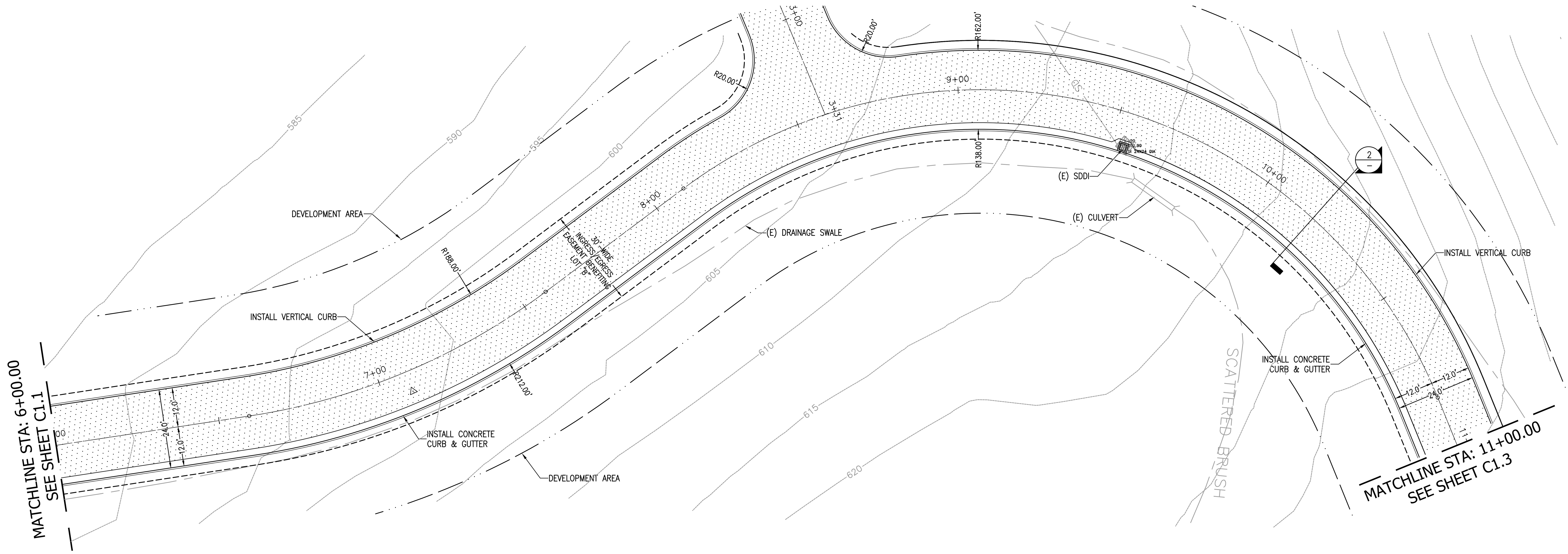

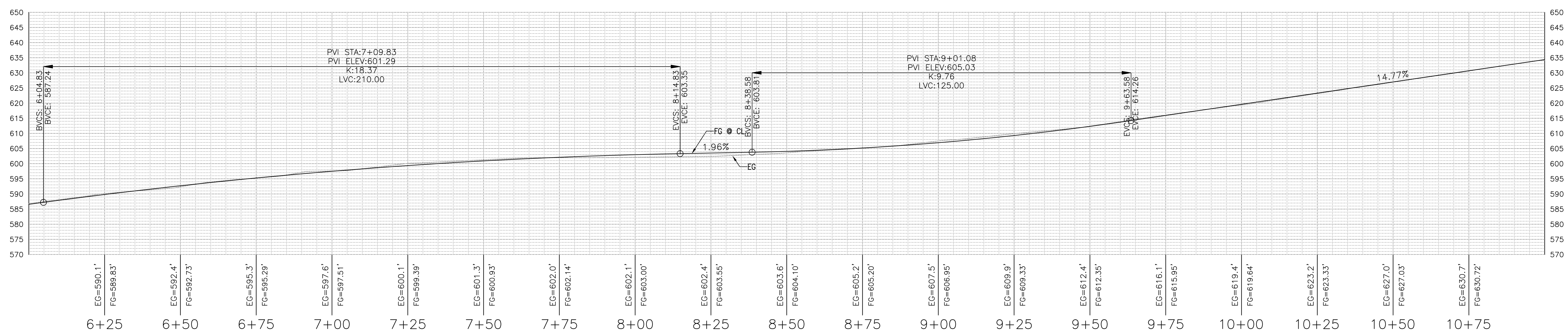

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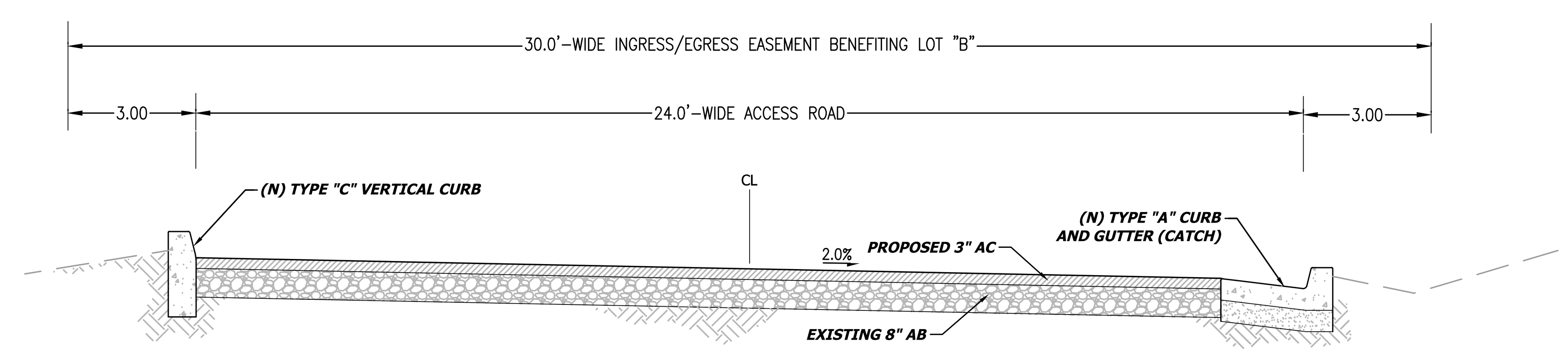

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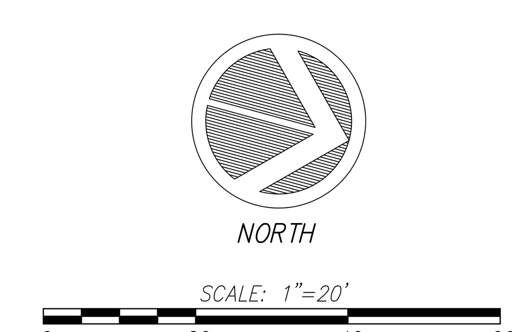

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REVISIONS	BY

LOT A ROAD
PLAN AND PROFILE
STA.:6+00.00-11+00.00

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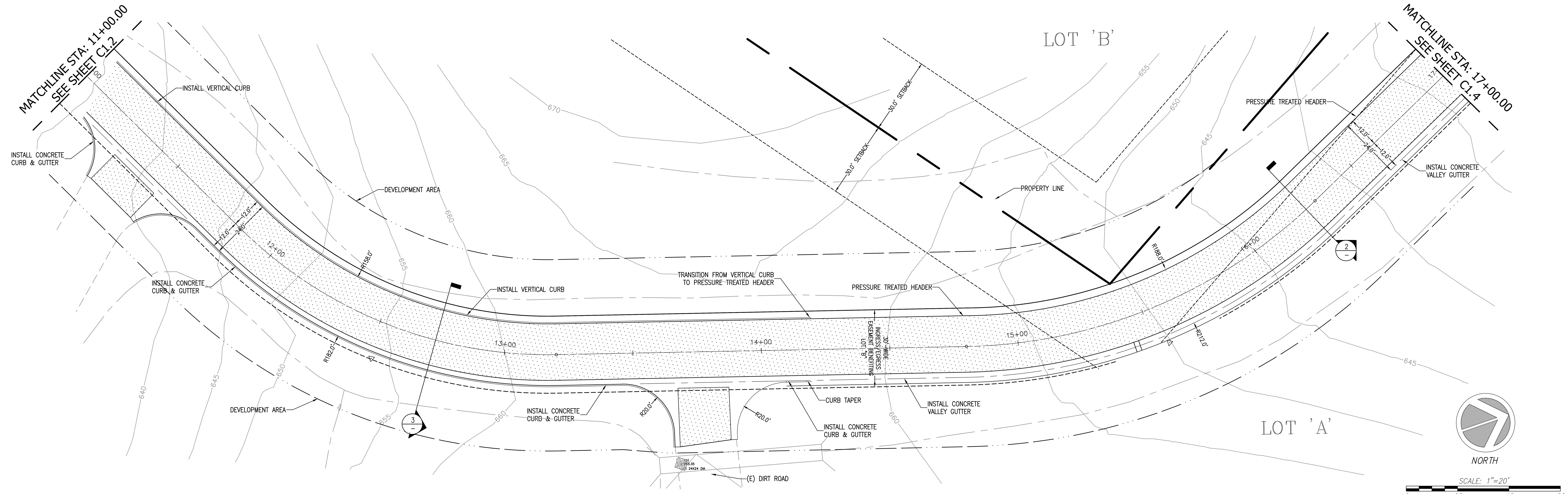
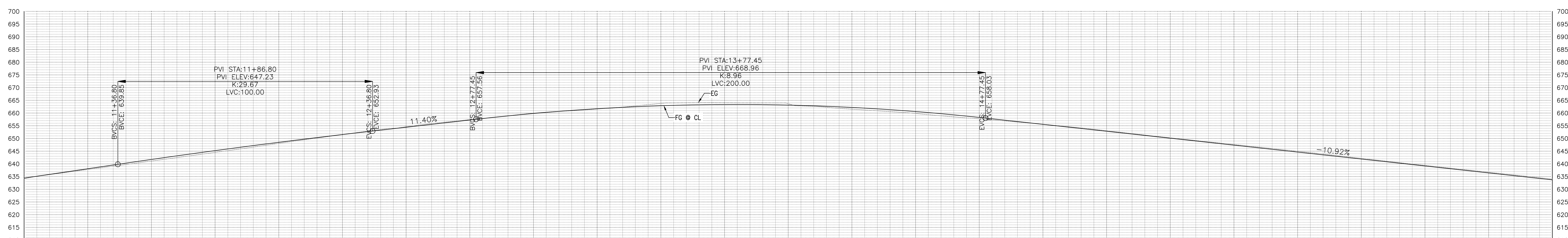
Sheet:	C1.2

Of 17 Sheets

Drawing: Z:\Shared\CAD\3007.01 - IHF - Serpa Quarry\Design\CAD\Sheets\3007.01 - C1.2 - LOT A P&P.dwg Layout: C1.2 - LOT A RD P&P Last Saved: Fri Jun 25, 2021 - 8:36am Last Plotted: Tue Jun 29, 2021 - 1:39pm By: jamie

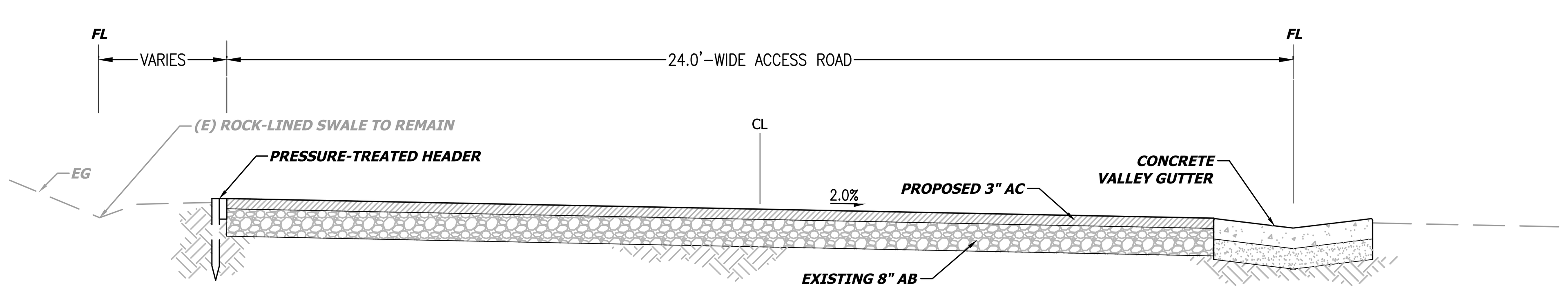




	EG	FG
11+25	637.8'	638.10'
11+50	641.1'	641.77'
11+75	644.5'	645.24'
12+00	648.1'	648.51'
12+25	651.6'	651.56'
12+50	654.6'	654.43'
12+75	657.5'	657.28'
13+00	660.0'	659.85'
13+25	661.6'	661.72'
13+50	663.8'	662.89'
13+75	664.1'	663.37'
14+00	663.7'	663.15'
14+25	661.6'	662.23'
14+50	659.9'	660.61'
14+75	657.8'	658.30'
15+00	655.6'	655.57'
15+25	653.1'	652.84'
15+50	650.3'	650.11'
15+75	647.7'	647.38'
16+00	645.0'	644.65'
16+25	642.2'	641.92'
16+50	639.4'	639.19'
16+75	636.7'	636.45'

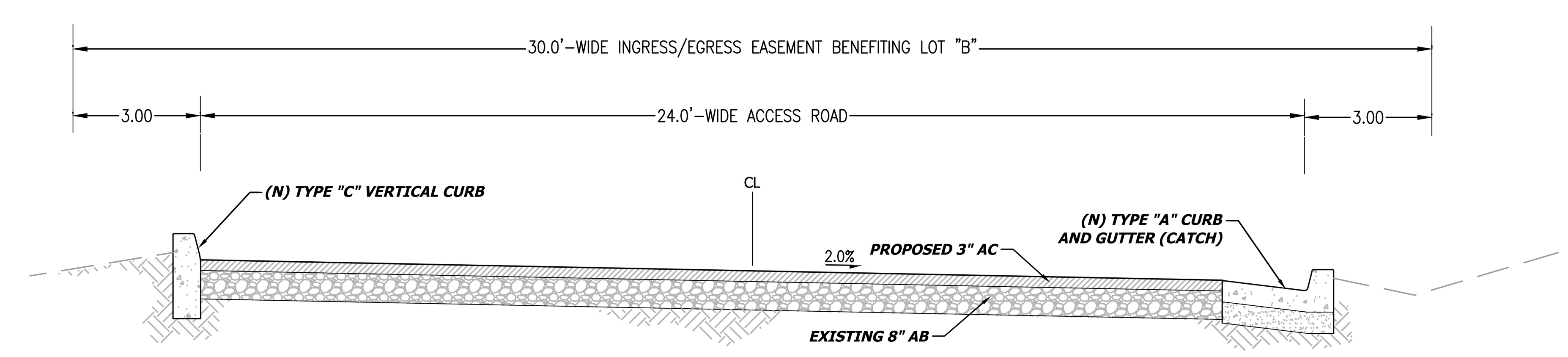
1 LOT A ROAD - STA. 11+00.00 - 17+00.00

Scale: 1"=20' H - 1:1 V



2 ROAD SECTION

Scale: NTS



3 ROAD SECTION

Scale: NTS

USA NORTH 811
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REVISIONS	BY

LOT A ROAD PLAN AND PROFILE STA.:11+00.00-17+00.00

REGISTERED PROFESSIONAL ENGINEER
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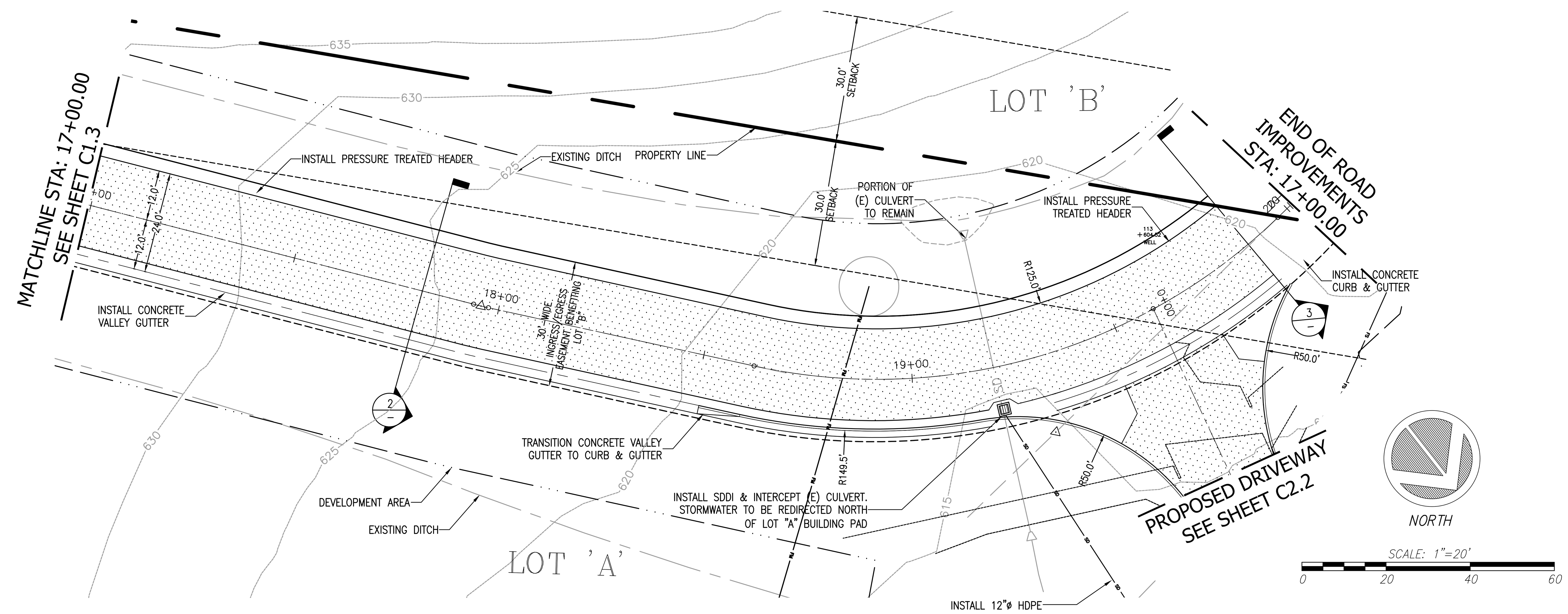
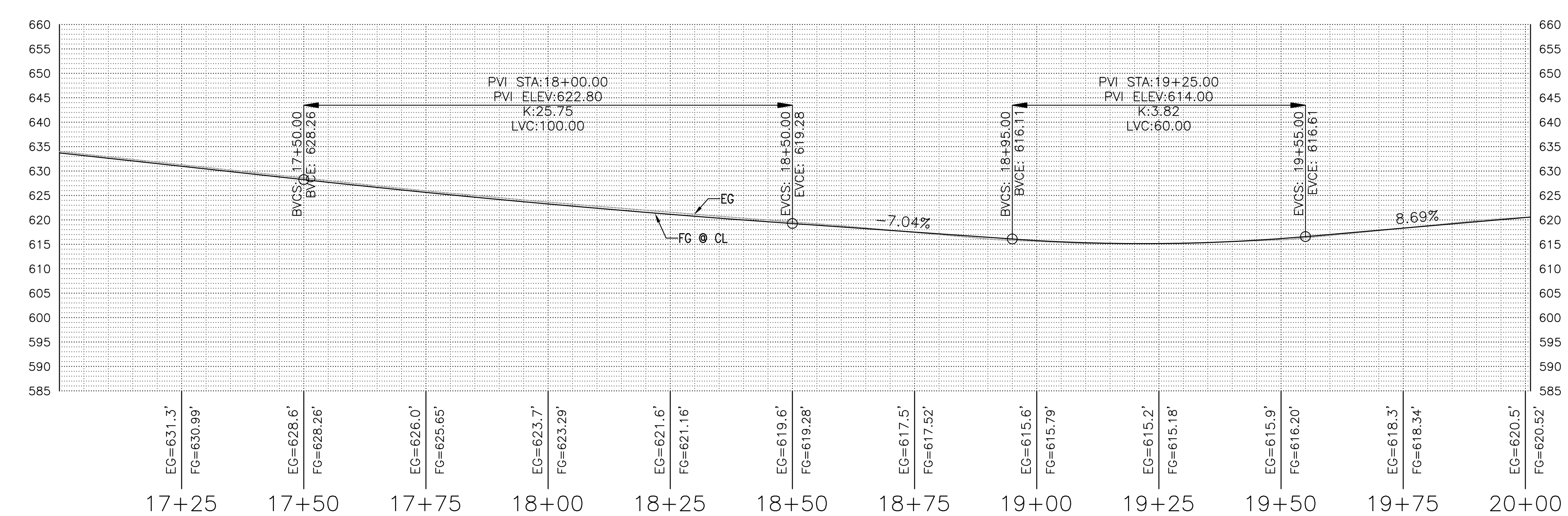
Sheet:	C1.3

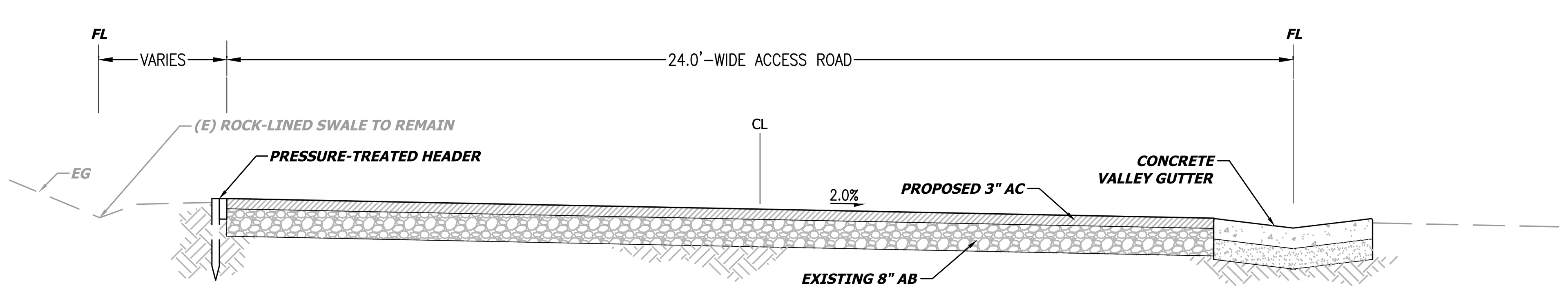
Of 17 Sheets





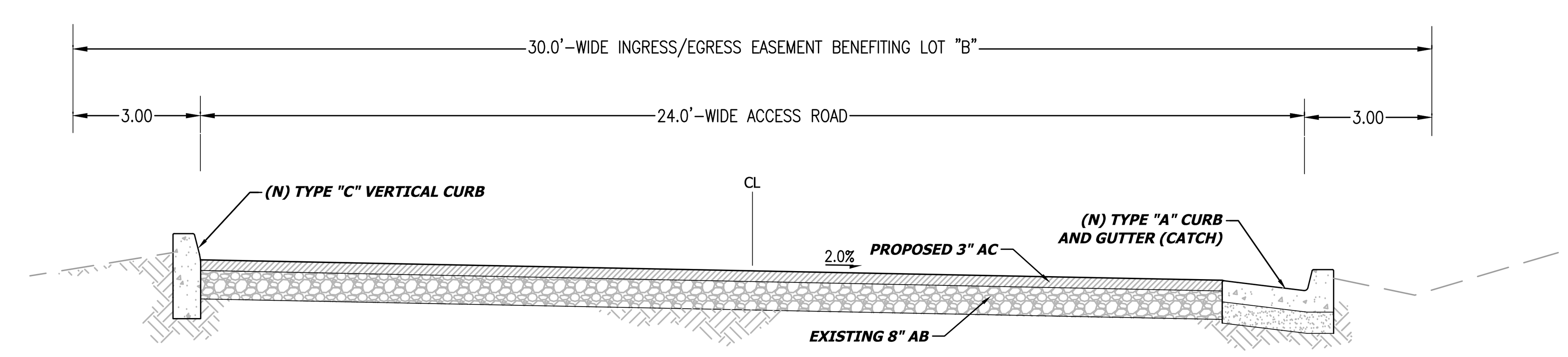
1 LOT A ROAD - STA. 17+00.00 - 20+01.05

Scale: 1"=20' H - 1:1 V



2 ROAD SECTION

Scale: NTS



3 ROAD SECTION

Scale: NTS

USA NORTH 811
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REVISIONS	BY

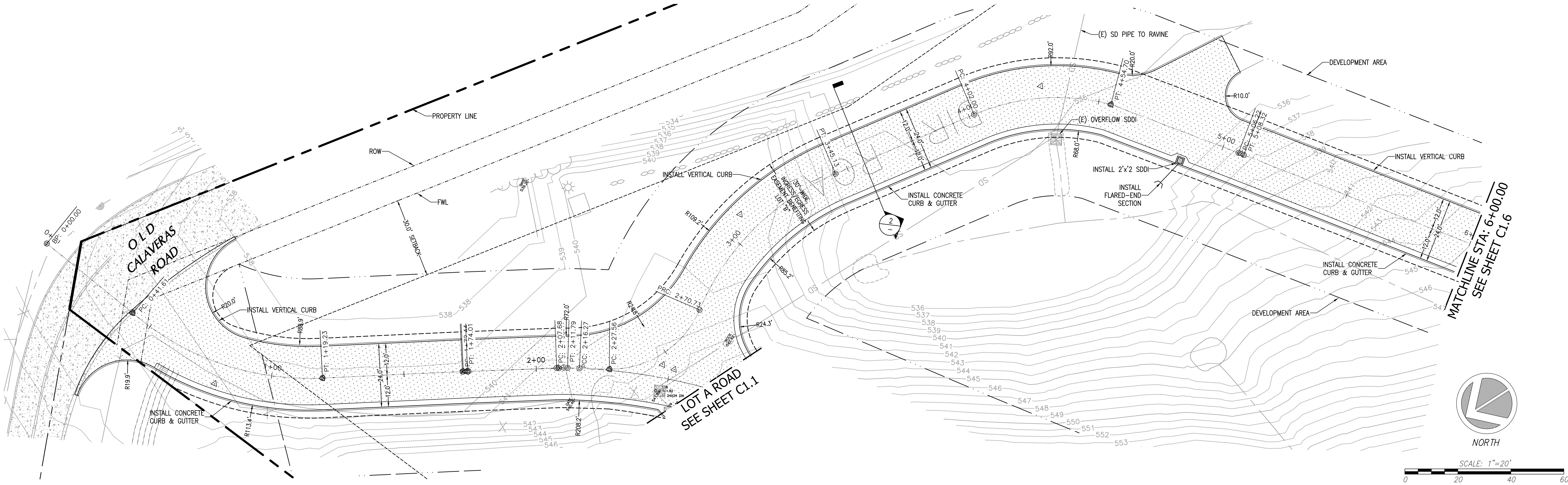
LOT A ROAD
PLAN AND PROFILE
STA.:17+00.00 - 20+01.05

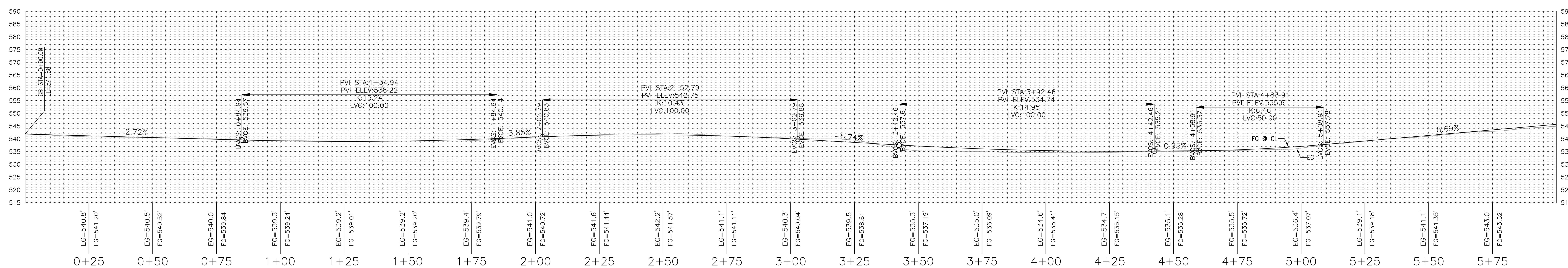
REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
Exp. 6/30/23
CIVIL
STATE OF CALIFORNIA

C2G /CIVIL CONSULTANTS GROUP, INC.
Engineers/Planners
4444 Scotts Valley Drive / Suite 6
Scotts Valley, CA 95066
T (831) 438-4420 F (831) 438-4420

SERPA QUARRY
2-LOT VESTING TENTATIVE MAP
2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

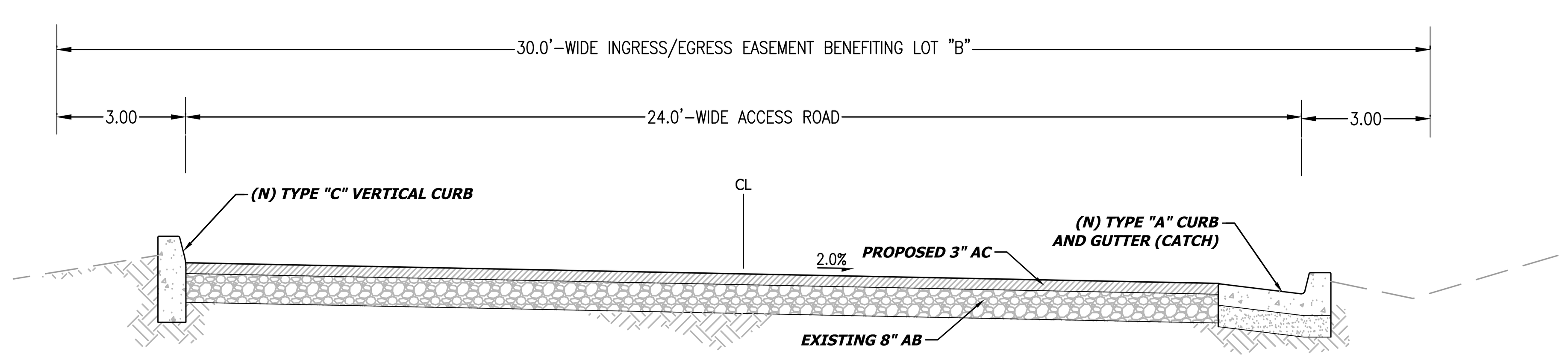
Date:	06/03/21
Scale:	1" = 20'
Drawn:	DD
Job:	3007.01
Sheet:	C1.4
Of 17 Sheets	





1 LOT B ROAD - STA. 0+00.00 - 6+00.00

Scale: 1"=20' H - 1:1 V



2 ROAD SECTION

Scale: NTS

USA NORTH 811 Call 811 Before You Dig

REVISIONS	BY

LOT B ROAD PLAN AND PROFILE STA.:0+00.00-6+00.00

REGISTERED PROFESSIONAL ENGINEER TODD R. CREAMER No. C 64561 Exp. 6/30/23 CIVIL STATE OF CALIFORNIA

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SERPA QUARRY
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2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

Date:	06/03/21
Scale:	1" = 20'
Drawn:	DD
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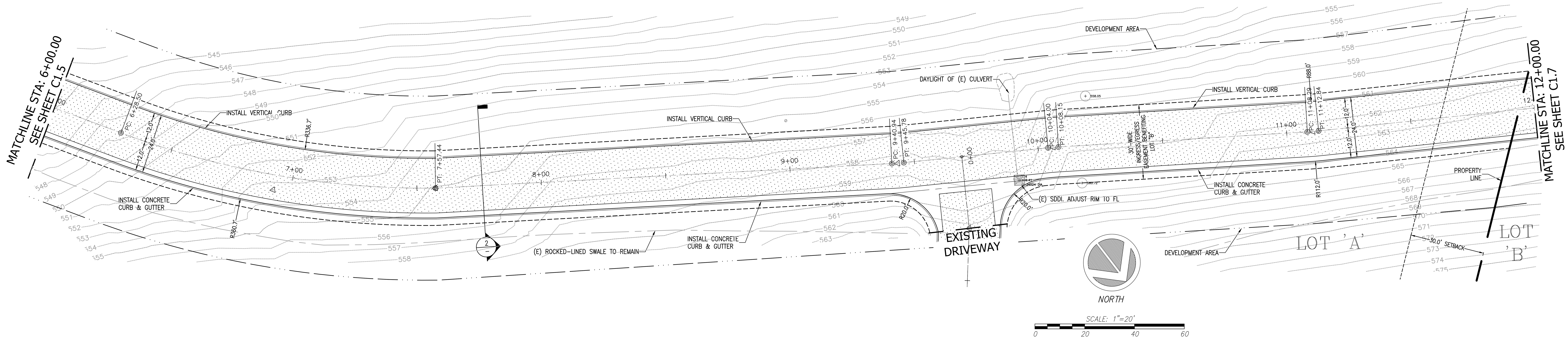
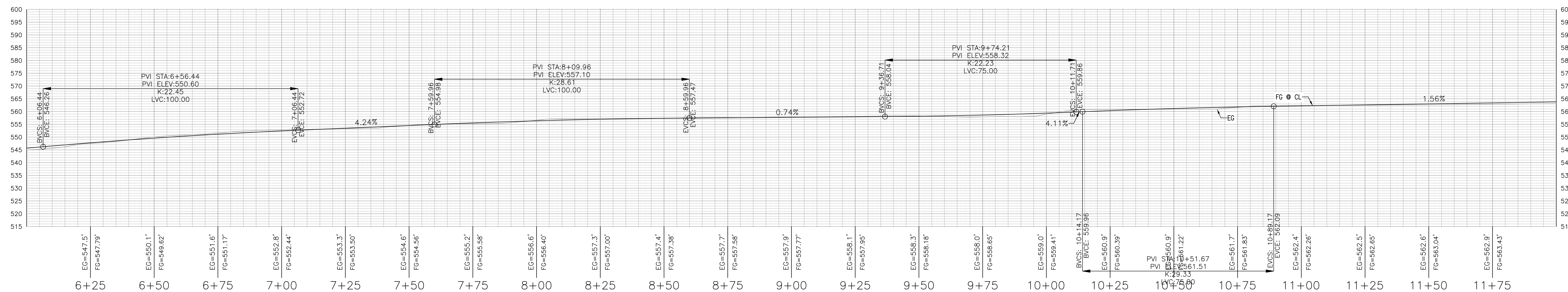
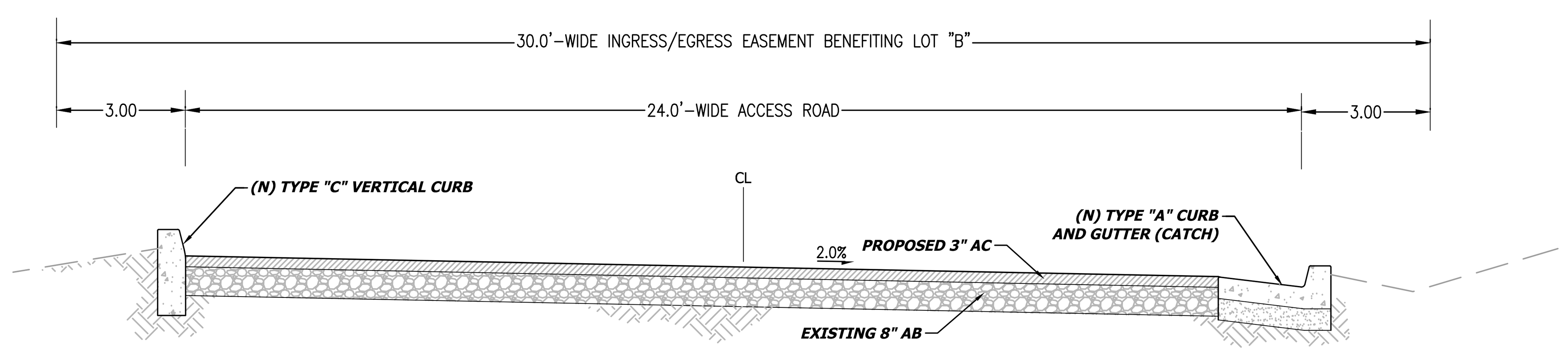




1 LOT B ROAD - STA. 6+00.00 - 12+00.00

Scale: 1"=20' H - 1:1 V



2 ROAD SECTION

Scale: NTS

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REVISIONS	BY

LOT B ROAD
PLAN AND PROFILE
STA.:6+00.00-12+00.00

REGISTERED PROFESSIONAL ENGINEER
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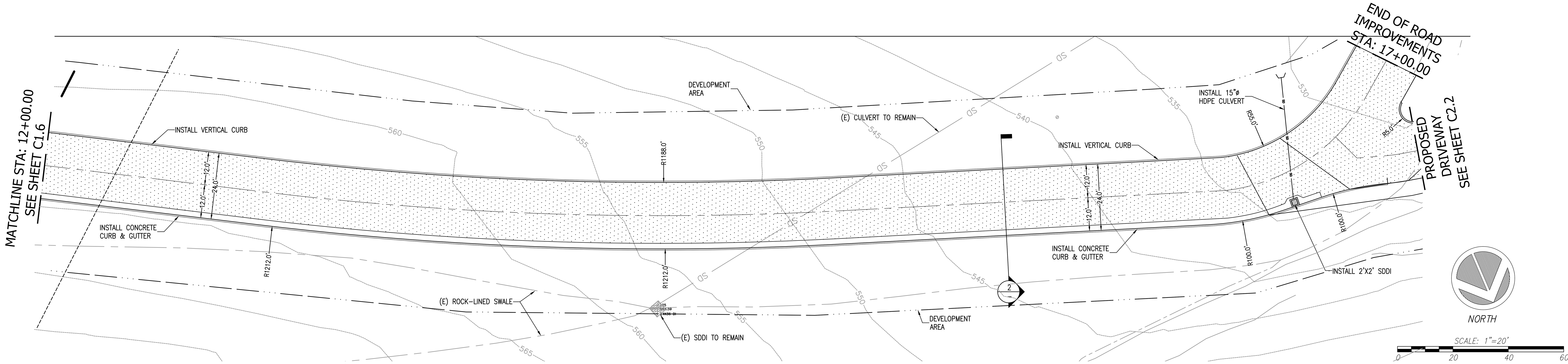
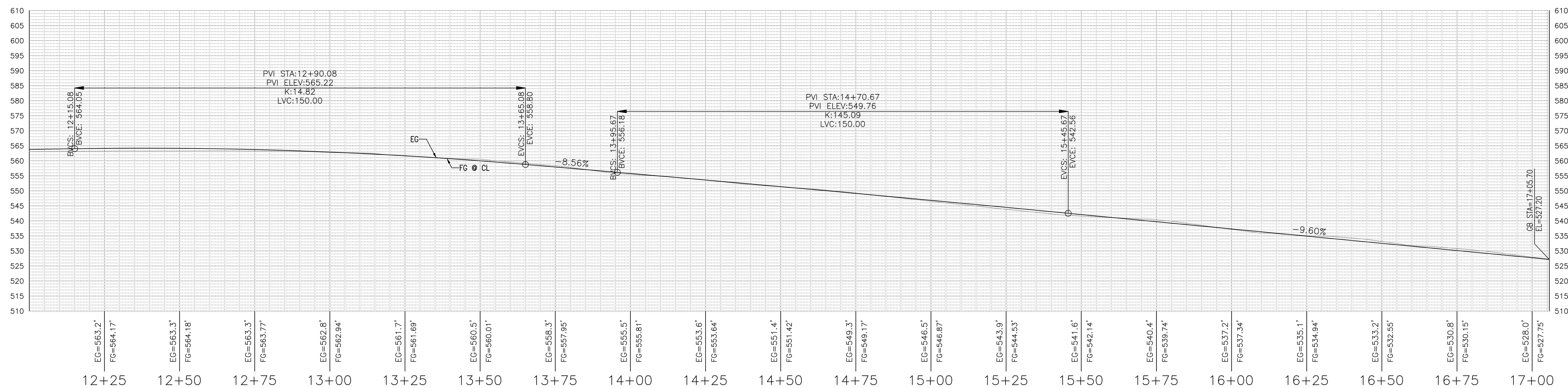
SERPA QUARRY
2-LOT VESTING TENTATIVE MAP
2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

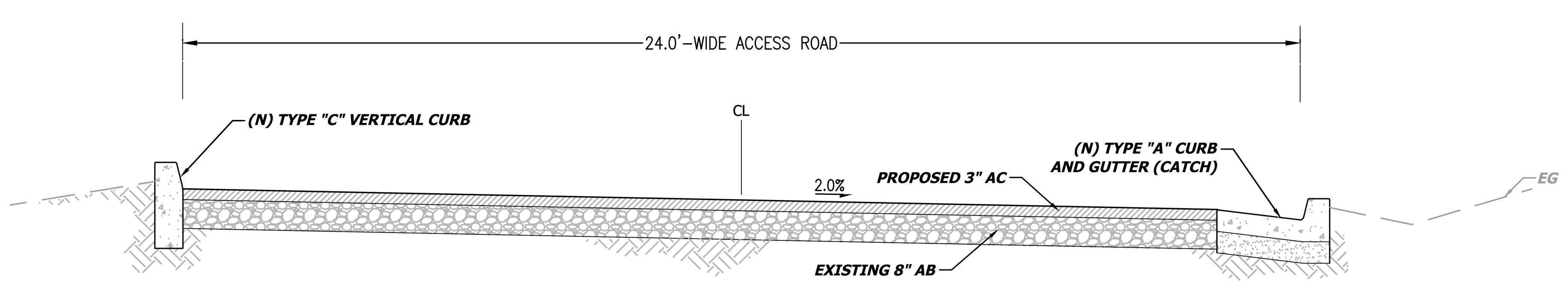
Date: 06/03/21
Scale: 1" = 20'
Drawn: DD
Job: 3007.01
Sheet: C1.6
Of 17 Sheets





1 LOT B ROAD - STA. 12+00.00 - 17+05.72

Scale: 1"=20' H - 1:1 V



2 ROAD SECTION

Scale: NTS

REVISIONS	BY

LOT B ROAD
PLAN AND PROFILE
STA.:17+05.72-12+00.00

REGISTERED PROFESSIONAL ENGINEER TODD R. CREAMER No. C 64561 Exp. 6/30/23 CIVIL STATE OF CALIFORNIA

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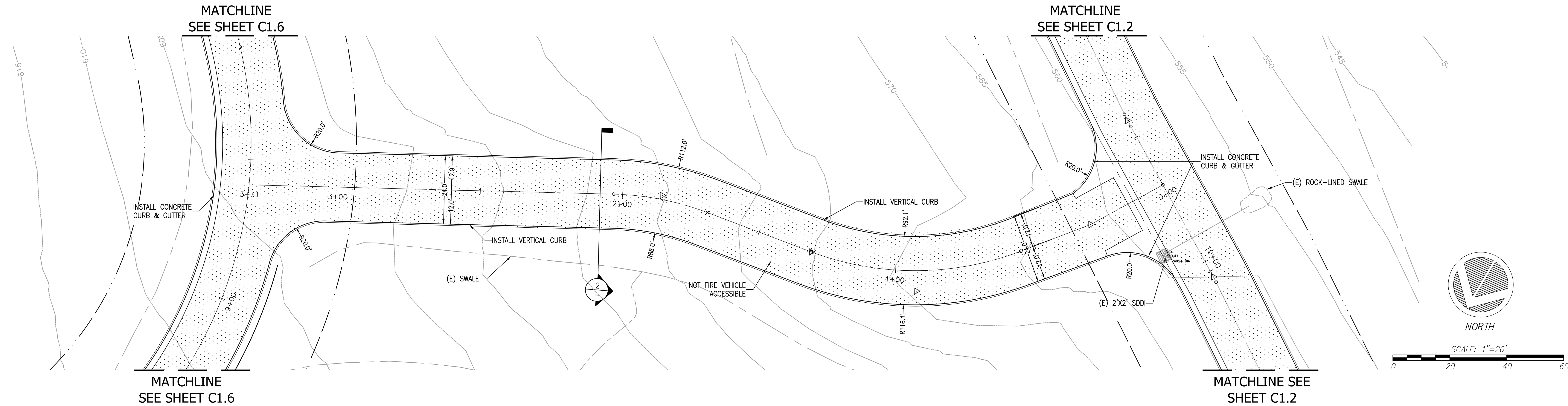
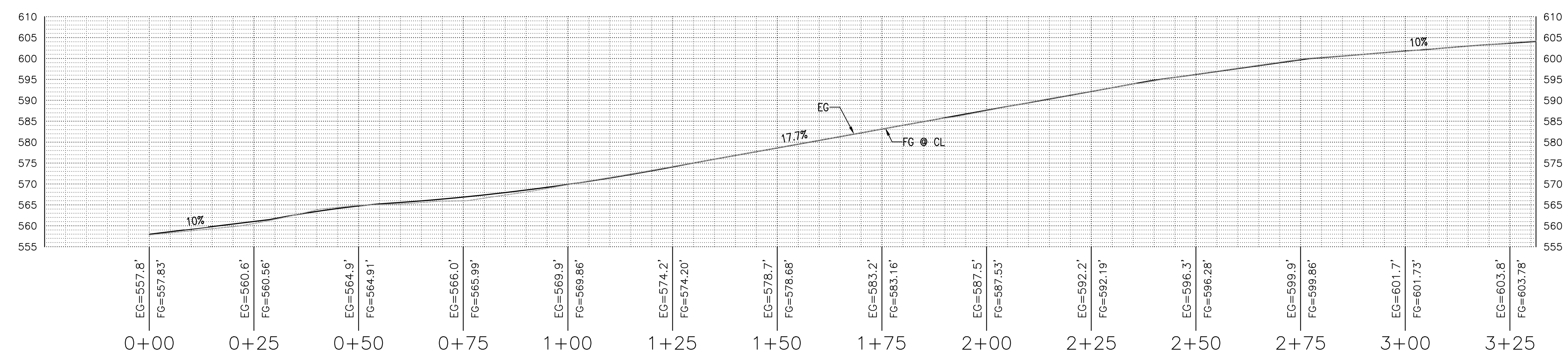
SERPA QUARRY
2-LOT VESTING TENTATIVE MAP
2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

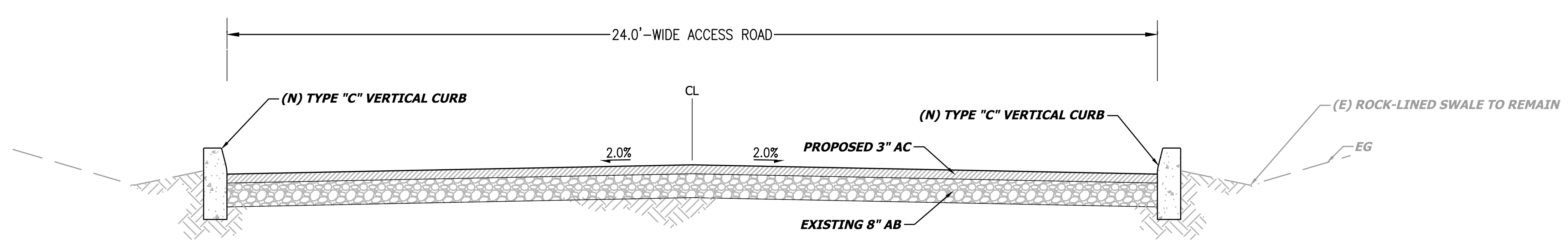
Date: 06/03/21
Scale: 1" = 20'
Drawn: DD
Job: 3007.01
Sheet: C1.7
Of 17 Sheets





1 JOINER - STA. 0+00.00 - 3+31.00

Scale: 1"=20' H - 1:1 V



2 ROAD SECTION

Scale: NTS

REVISIONS	BY

JOINER ROAD
PLAN AND PROFILE
STA.:0+00.0-12+00.00

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
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APN: 029-34-004

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Scale: 1" = 20'
Drawn: DD
Job: 3007.01
Sheet: C1.8
Of 17 Sheets

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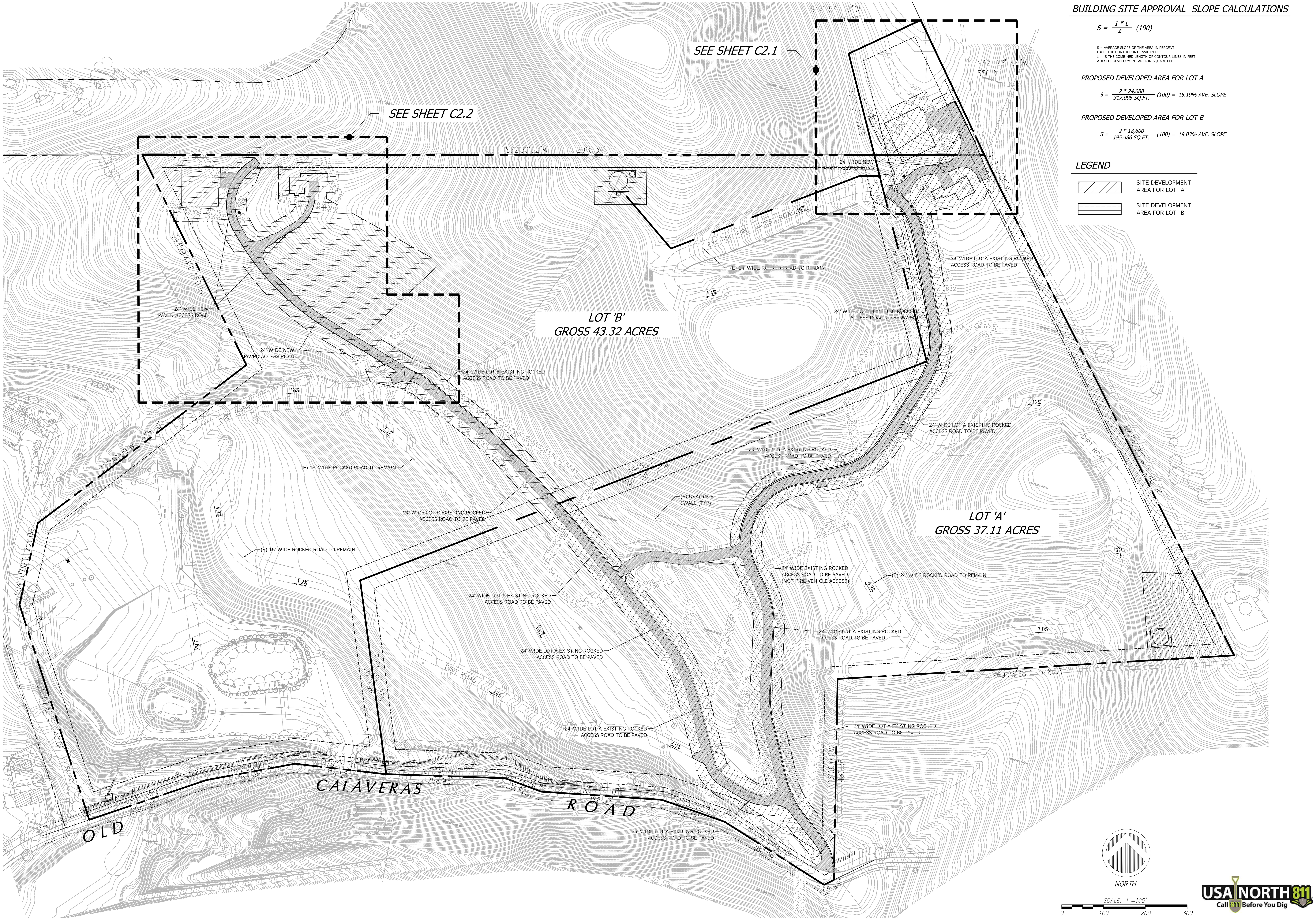

BUILDING SITE APPROVAL SLOPE CALCULATIONS

$$S = \frac{I * L}{A} (100)$$

S = AVERAGE SLOPE OF THE AREA IN PERCENT
I = IS THE CONTOUR INTERVAL IN FEET
L = IS THE COMBINED LENGTH OF CONTOUR LINES IN FEET
A = SITE DEVELOPMENT AREA IN SQUARE FEET

PROPOSED DEVELOPED AREA FOR LOT A

$$S = \frac{2 * 24{,}088}{317{,}095 \text{ SQ.FT.}} (100) = 15.19\% \text{ AVE. SLOPE}$$

PROPOSED DEVELOPED AREA FOR LOT B

$$S = \frac{2 * 18{,}600}{195{,}486 \text{ SQ.FT.}} (100) = 19.03\% \text{ AVE. SLOPE}$$

LEGEND

SITE DEVELOPMENT AREA FOR LOT "A"
SITE DEVELOPMENT AREA FOR LOT "B"

REVISIONS	BY

OVERALL SITE IMPROVEMENT

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
Exp. 6/30/23
CIVIL
STATE OF CALIFORNIA

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SERPA QUARRY
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2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

Date:	06/03/21
Scale:	1" = 100'
Drawn:	DD
Job:	3007.01
Sheet:	C2.0

Of 17 Sheets

Drawing: Z:\Shared\CAD\3007.01 – IHF – Serpa Quarry\Design\CAD\Sheets\3007.01 – C2.0 – OVERALL SITE IMP.dwg Layout: C2.0 – OVERALL SITE IMP Last Saved: Tue Jun 29, 2021 – 11:32am Last Plotted: Tue Jun 29, 2021 – 2:51pm By: jamie

LOT A - EARTHWORK QUANTITIES

NOTE: THE EARTHWORK QUANTITIES SHOWN HEREON ARE EXCLUSIVE OF WALL FOOTINGS, EXISTING PAVEMENT REMOVAL AND OVER EXCAVATION AND RECOMPACTION, UTILITY TRENCH SPOILS & SOIL EXPANSION AND CONTRACTION FACTORS.

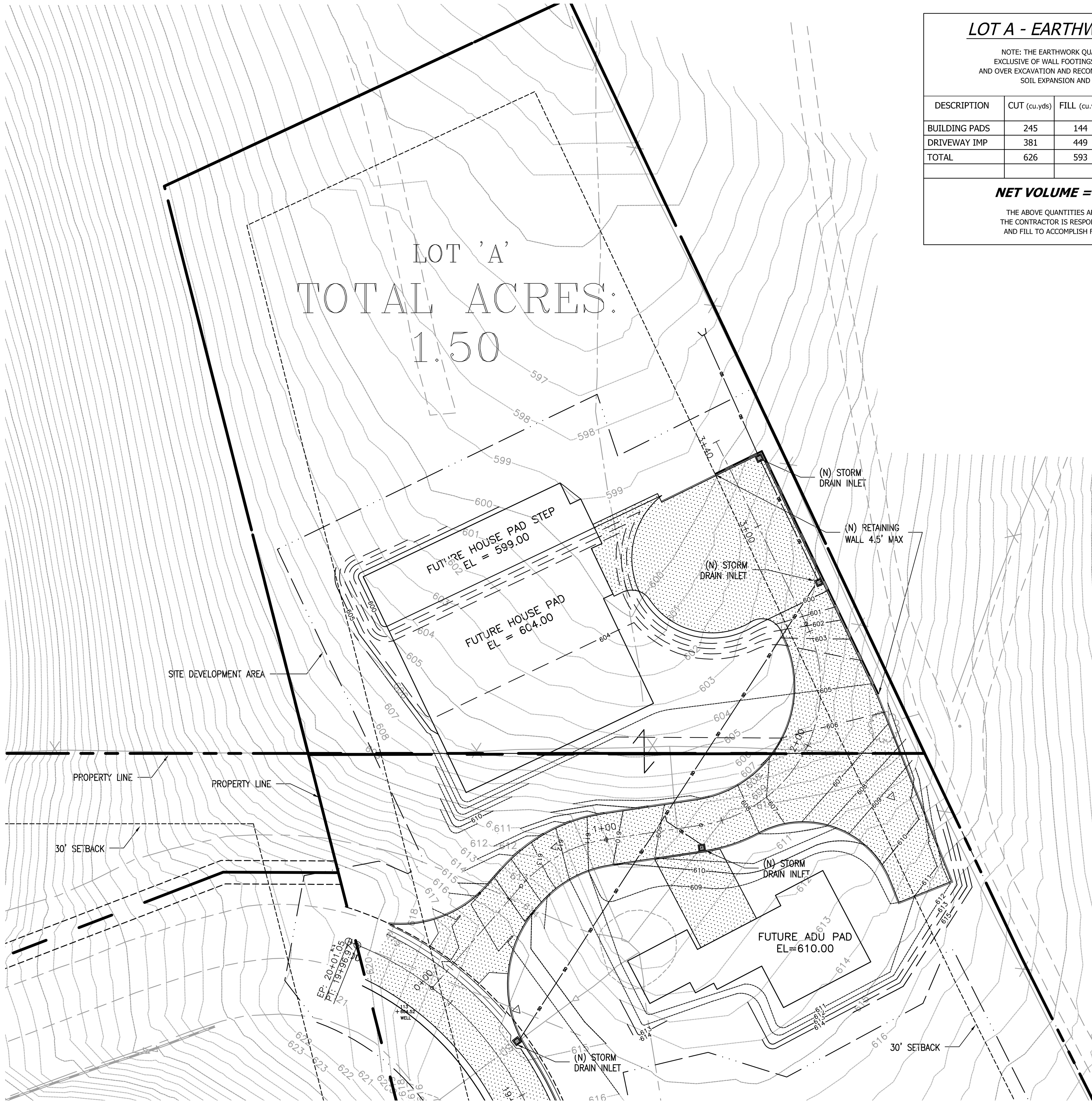
DESCRIPTION	CUT (cu.yds)	FILL (cu.yds)	NET (cu.yds)	MAX CUT (ft) HEIGHT	MAX FILL (ft) HEIGHT
BUILDING PADS	245	144	101(C)	6	1
DRIVEWAY IMP	381	449	68(F)	4	2
TOTAL	626	593	33(C)		

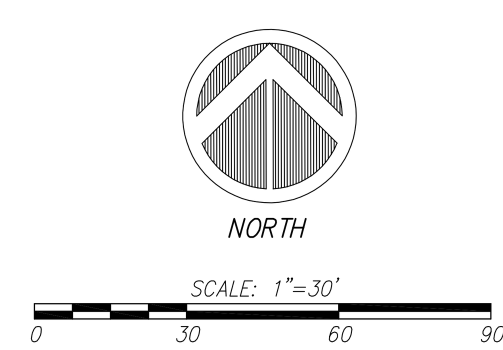
NET VOLUME = 33 CU.YDS. OF CUT

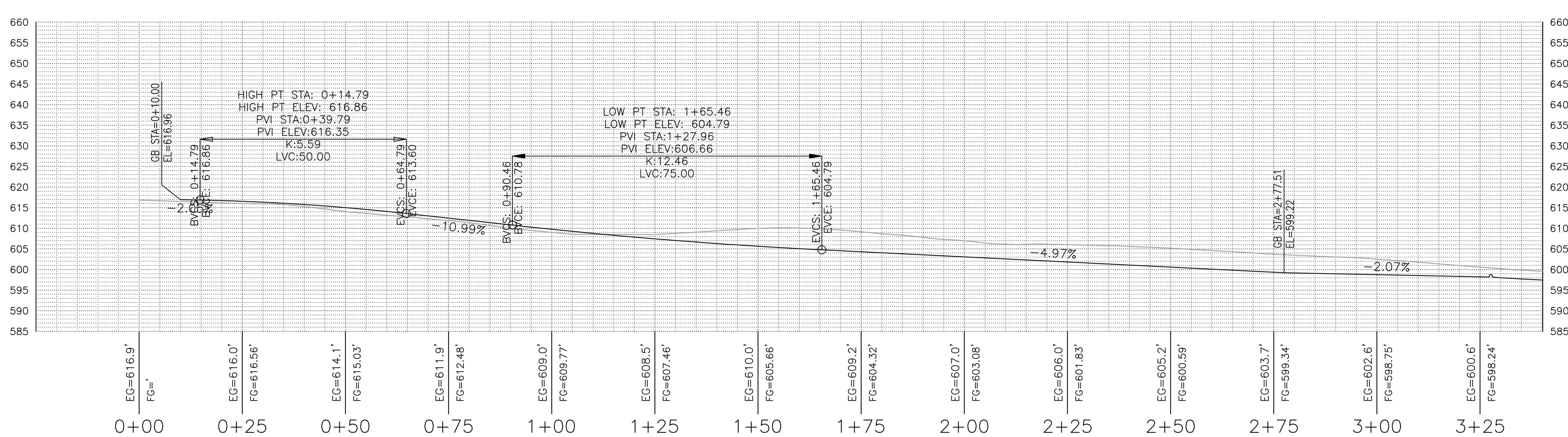
THE ABOVE QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE NECESSARY CUT AND FILL TO ACCOMPLISH FINISH GRADE SHOWN ON THESE PLANS.

GENERAL GRADING NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE PROJECT'S GEOTECHNICAL REPORT.
2. ALL AREAS TO RECEIVE FILL SHALL BE STRIPPED TO A DEPTH TO BE DETERMINED BY THE GEOTECHNICAL ENGINEER. ANY (E) A.C. OR P.C.C. PAVING SHALL BE SCARIFIED & REMOVED & SUBGRADE PREPARED & COMPACTED AS SHOWN IN THESE PLANS.
3. ALL MATERIAL TO BE USED AS FILL WITHIN BUILDING PAD AREAS & PARKING OR DRIVEWAY AREAS TO BE FREE OF ALL VEGETATION & FOREIGN MATTER AND SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
4. ALL BUILDING PADS TO BE COMPACTED TO 90% RELATIVE COMPACTION; DRIVEWAY & STREET AREAS TO BE COMPACTED TO 95% RELATIVE COMPACTION PER ASTM D1557-91.
5. BUILDING PAD TO BE LEVEL SIDE-TO-SIDE, FRONT-TO-REAR, UNLESS OTHERWISE SHOWN.
6. STRIPPINGS MAY BE PLACED IN PLANTING AREAS; ALL EXCESS STRIPPING SHALL BE HAULED OFF. PAVING DEBRIS SHALL BE HAULED OFF TO AN APPROVED DISPOSAL SITE.
7. ALL WORK SHOWN OR NOTED IN THESE PLANS SHALL BE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER, ALL LOCAL, STATE AND FEDERAL MINIMUM STANDARDS AND THE LATEST EDITION OF THE UNIFORM BUILDING CODE.
8. CONTRACTOR SHALL PROTECT ALL EXISTING SITE IMPROVEMENTS NOT IDENTIFIED FOR REMOVAL DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR ANY DAMAGE TO AS-NEW CONDITION AT THEIR SOLE EXPENSE.
9. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS, SITE DIMENSIONS AND GRADES PRIOR TO THE START OF CONSTRUCTION.
10. ALL GRADING AND RELATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD REQUIREMENTS OF THE COUNTY OF SANTA CLARA.
11. GRADING SLOPES FOR BOTH CUT AND FILL SHALL NOT EXCEED 2(H):1(V) UNLESS OTHERWISE DIRECTED BY THE GEOTECHNICAL ENGINEER.
12. CONTRACTOR SHALL GRADE TO ENSURE DRAINAGE FLOWS AWAY FROM (N) BUILDING PADS
13. ALL EXCESS EARTHWORK SHALL BE PLACED ON SITE AT AN APPROVED LOCATION.







(1) LOT A DRIVEWAY PROFILE

Scale: 1"=20'

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REVISIONS	BY

LOT A IMPROVEMENT PLAN

REGISTERED PROFESSIONAL ENGINEER TODD R. CREAMER No. C 64561 Exp. 6/30/23 CIVIL STATE OF CALIFORNIA

C2G /CIVIL CONSULTANTS GROUP, INC.
Engineers/Planners
4444 Scotts Valley Drive / Suite 6
Scotts Valley, CA 95066
T (831) 438-4420 F (831) 438-4420

SERPA QUARRY
2-LOT VESTING TENTATIVE MAP
2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

Date:	06/03/21
Scale:	AS SHOWN
Drawn:	DD
Job:	3007.01
Sheet:	C2.1

Of 17 Sheets

Drawing: Z:\Shared\CAD\3007.01 – IHF – Serpa Quarry\Design\CAD\Sheets\3007.01 – C2.1 – LOT A IMP.dwg Layout: C2.1 – LOT A IMP Last Saved: Fri Jun 25, 2021 – 8:32am Last Plotted: Wed Jul 07, 2021 – 2:00pm By: Dave

LOT B - EARTHWORK QUANTITIES

NOTE: THE EARTHWORK QUANTITIES SHOWN HEREON ARE EXCLUSIVE OF WALL FOOTINGS, EXISTING PAVEMENT REMOVAL AND OVER EXCAVATION AND RECOMPACTION, UTILITY TRENCH SPOILS & SOIL EXPANSION AND CONTRACTION FACTORS.

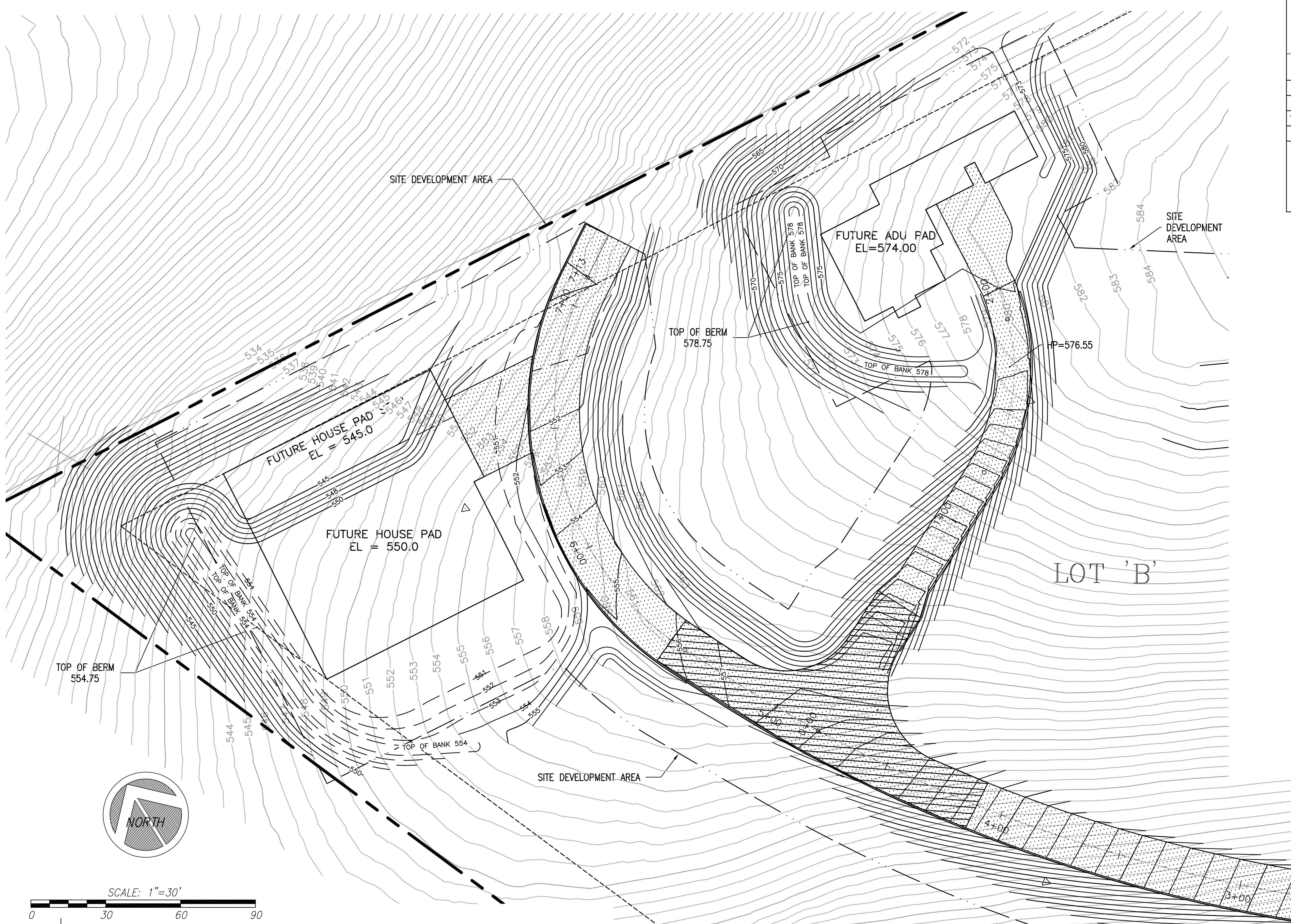
DESCRIPTION	CUT (cu.yds)	FILL (cu.yds)	NET (cu.yds)	MAX CUT (ft) HEIGHT	MAX FILL (ft) HEIGHT
BUILDING PADS	2150	1227	923(C)	8	6
DRIVEWAY IMP	1846	2259	413(F)	4	7
TOTAL	3996	3486	510(C)		

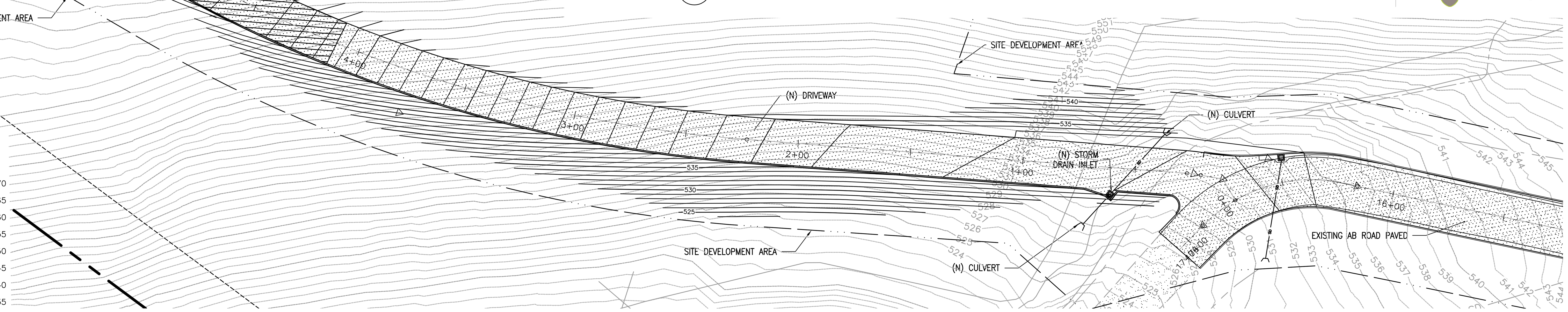
NET VOLUME = 510 CU.YDS. OF CUT

THE ABOVE QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE NECESSARY CUT AND FILL TO ACCOMPLISH FINISH GRADE SHOWN ON THESE PLANS.

GENERAL GRADING NOTES:

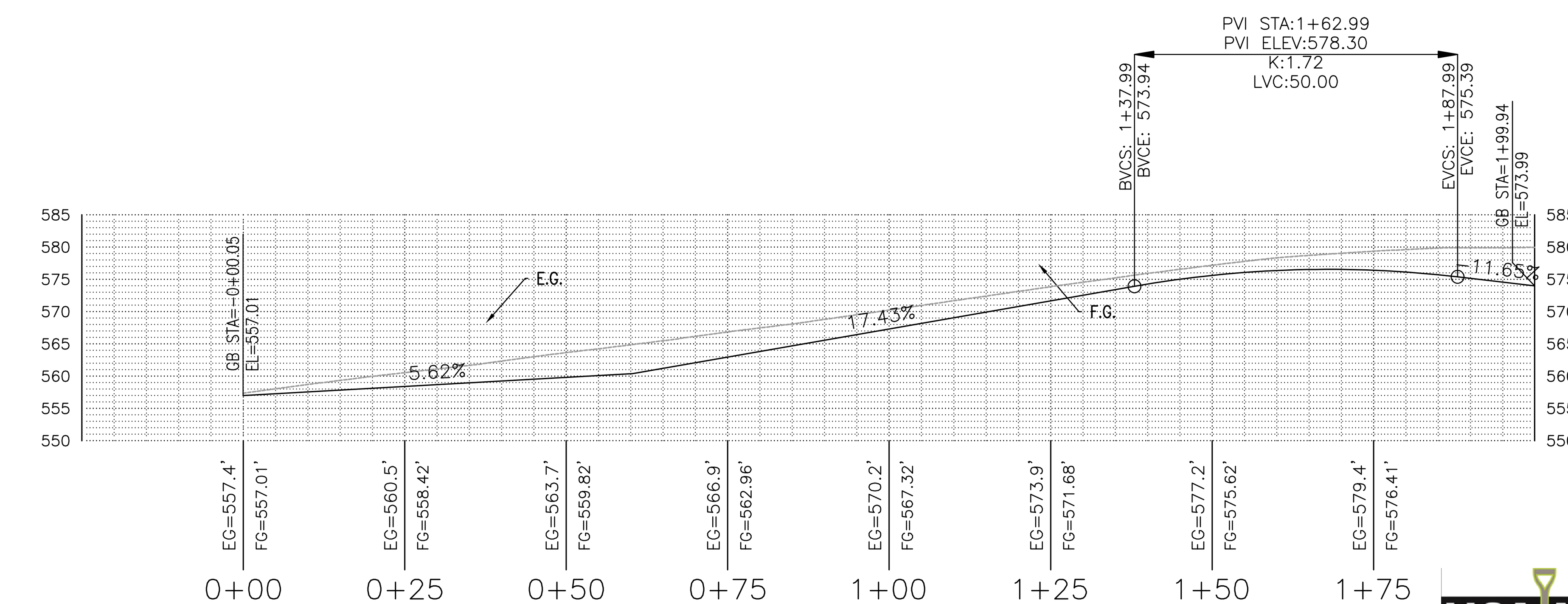
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE PROJECT'S GEOTECHNICAL REPORT.
2. ALL AREAS TO RECEIVE FILL SHALL BE STRIPPED TO A DEPTH TO BE DETERMINED BY THE GEOTECHNICAL ENGINEER. ANY (E) A.C. OR P.C.C. PAVING SHALL BE SCARIFIED & REMOVED & SUBGRADE PREPARED & COMPACTED AS SHOWN IN THESE PLANS.
3. ALL MATERIAL TO BE USED AS FILL WITHIN BUILDING PAD AREAS & PARKING OR DRIVEWAY AREAS TO BE FREE OF ALL VEGETATION & FOREIGN MATTER AND SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
4. ALL BUILDING PADS TO BE COMPACTED TO 90% RELATIVE COMPACTION; DRIVEWAY & STREET AREAS TO BE COMPACTED TO 95% RELATIVE COMPACTION PER ASTM D1557-91.
5. BUILDING PAD TO BE LEVEL SIDE-TO-SIDE, FRONT-TO-REAR, UNLESS OTHERWISE SHOWN.
6. STRIPPINGS MAY BE PLACED IN PLANTING AREAS; ALL EXCESS STRIPPING SHALL BE HAULED OFF. PAVING DEBRIS SHALL BE HAULED OFF TO AN APPROVED DISPOSAL SITE.
7. ALL WORK SHOWN OR NOTED IN THESE PLANS SHALL BE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER, ALL LOCAL, STATE AND FEDERAL MINIMUM STANDARDS AND THE LATEST EDITION OF THE UNIFORM BUILDING CODE.
8. CONTRACTOR SHALL PROTECT ALL EXISTING SITE IMPROVEMENTS NOT IDENTIFIED FOR REMOVAL DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR ANY DAMAGE TO AS-NEW CONDITION AT THEIR SOLE EXPENSE.
9. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS, SITE DIMENSIONS AND GRADES PRIOR TO THE START OF CONSTRUCTION.
10. ALL GRADING AND RELATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD REQUIREMENTS OF THE COUNTY OF SANTA CLARA.
11. GRADING SLOPES FOR BOTH CUT AND FILL SHALL NOT EXCEED 2(H):1(V) UNLESS OTHERWISE DIRECTED BY THE GEOTECHNICAL ENGINEER.
12. CONTRACTOR SHALL GRADE TO ENSURE DRAINAGE FLOWS AWAY FROM (N) BUILDING PADS
13. ALL EXCESS EARTHWORK SHALL BE PLACED ON SITE AT AN APPROVED LOCATION.





PLAN VIEW

Scale: 1"=30'



PROFILE

Scale: 1"=20'

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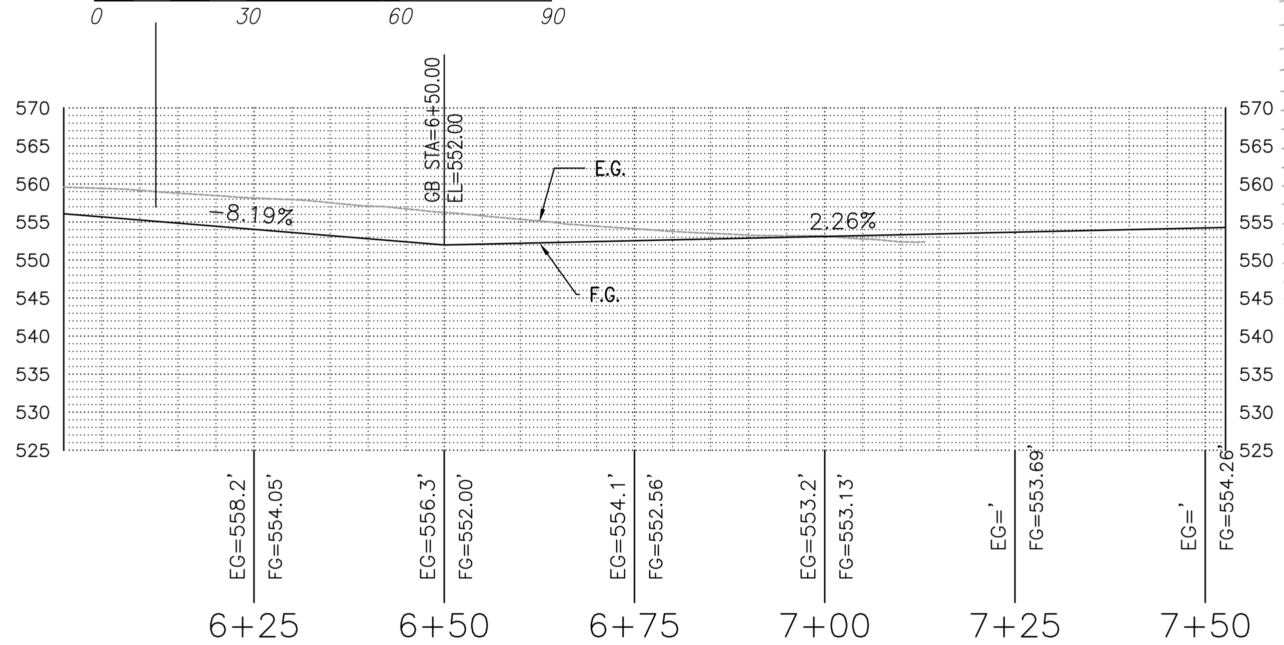
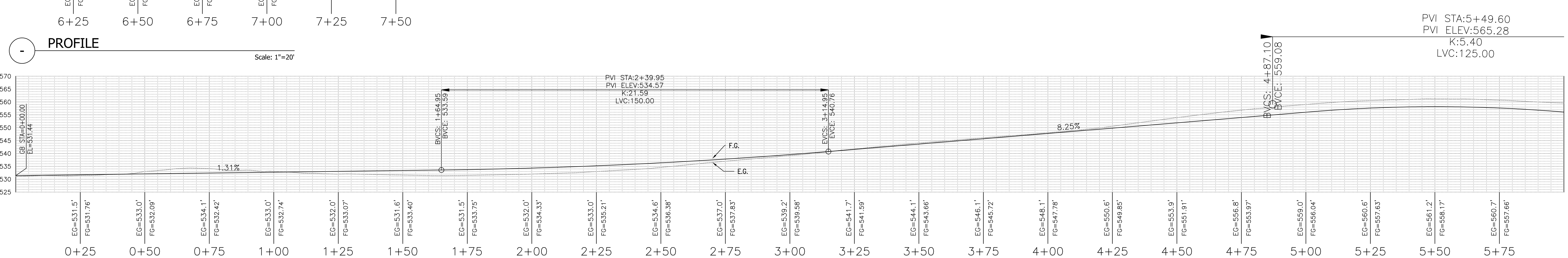


PROFILE

Scale: 1"=20'



PROFILE

Scale: 1"=20'

REVISIONS	BY

LOT B IMPROVEMENT PLAN

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
Exp. 6/30/23
CIVIL
STATE OF CALIFORNIA

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SERPA QUARRY
2-LOT VESTING TENTATIVE MAP
2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

Date:	06/03/21
Scale:	AS SHOWN
Drawn:	DD
Job:	3007.01
Sheet:	C2.2

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	TOTAL
TOTAL AREA (Square Feet)	213,320	69,886	71,646	166,657	31,662	17,533	64,010	110,204	255,005	35,045	149,683	111,716	687,286	368,125	11,760	38,525	356,118	11,474	15,592	139,338	9,982	154,249	208,482	77,150	57,314	54,793	13,471	**3,500,026**
TOTAL AREA (Acres)	*4.897*	*1.604*	*1.645*	*3.826*	*0.727*	*0.403*	*1.469*	*2.530*	*5.854*	*0.805*	*3.436*	*2.565*	*15.778*	*8.451*	*0.270*	*0.884*	*8.175*	*0.263*	*0.358*	*3.199*	*0.229*	*3.541*	*4.786*	*1.771*	*1.316*	*1.258*	*0.309*	*80.350*
IMPERVIOUS AREAS	18,384	0	13,080	230	10,800	17,533	0	2,442	31,080	35,045	0	6,840	0	1,890	11,760	1,440	53,104	273	15,592	3,060	9,982	5,400	0	17,640	15,650	7,725	13,471	292,421
EXISTING ROOF	0	0	0	230	0	0	0	0	0	0	0	0	0	450	0	0	0	0	0	0	0	0	0	0	0	0	0	680
PROPOSED PAVING OF EXISTING ROCKED ROAD	360	0	0	0	0	17,533	0	2,442	0	35,045	0	0	0	1,440	11,760	480	0	0	0	3,060	9,982	5,400	0	0	0	0	13,471	100,973
PROPOSED PAVED ROAD	360	0	0	0	10,800	0	0	0	0	0	0	0	0	0	0	0	0	0	15,592	0	0	0	0	0	0	0	0	26,752
EXISTING TO REMAIN ROCKED ROAD**	17,664	0	13,080	0	0	0	0	0	31,080	0	0	6,840	0	0	0	960	53,104	273	0	0	0	0	0	17,640	15,650	7,725	0	164,016
EQUIV. IMPERVIOUS AREA	10,958	0	7,848	230	0	17,533	0	2,442	18,648	35,045	0	4,104	0	1,890	11,760	1,056	31,862	164	0	3,060	9,982	5,400	0	10,584	9,390	4,635	13,471	200,063
*DECOMPOSED GRANITE & PERVIOUS PAVERS ASSUMED 60% IMPERVIOUS																												
LANDSCAPE/NATURAL AREAS	194,936	69,886	58,566	166,427	20,862	0	64,010	107,762	223,925	0	149,683	104,876	687,286	366,235	0	37,085	303,014	11,201	0	136,278	0	148,849	208,482	59,510	41,664	47,068	0	3,207,605
RUNOFF COEFICIENT	0.27	0.25	0.30	0.25	0.16	0.90	0.25	0.26	0.29	0.90	0.25	0.27	0.25	0.25	0.90	0.27	0.29	0.26	0.00	0.26	0.90	0.27	0.25	0.32	0.33	0.29	0.90	0.28
TIME OF CONCENTRATION	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
RAINFALL INTENSITY (10YR)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
RUNOFF RATE (CFS)	***1.614***	***0.481***	***0.598***	***1.152***	***0.144***	***0.435***	***0.441***	***0.803***	***2.005***	***0.869***	***1.031***	***0.824***	***4.733***	***2.569***	***0.292***	***0.282***	***2.877***	***0.081***	***0.000***	***1.014***	***0.247***	***1.159***	***1.436***	***0.672***	***0.520***	***0.439***	***0.334***	***27.051***
(10 YR)	*1.614*	*0.481*	*0.598*	*1.152*	*0.144*	*0.435*	*0.441*	*0.803*	*2.005*	*0.869*	*1.031*	*0.824*	*4.733*	*2.569*	*0.292*	*0.282*	*2.877*	*0.081*	*0.000*	*1.014*	*0.247*	*1.159*	*1.436*	*0.672*	*0.520*	*0.439*	*0.334*	*27.051*
(25 YR)	*1.937*	*0.578*	*0.718*	*1.382*	*0.172*	*0.522*	*0.529*	*0.963*	*2.405*	*1.043*	*1.237*	*0.989*	*5.680*	*3.083*	*0.350*	*0.338*	*3.452*	*0.097*	*0.000*	*1.217*	*0.297*	*1.391*	*1.723*	*0.807*	*0.624*	*0.527*	*0.401*	*32.461*
(50 YR)	*2.179*	*0.650*	*0.807*	*1.555*	*0.194*	*0.587*	*0.595*	*1.084*	*2.706*	*1.173*	*1.392*	*1.112*	*6.390*	*3.468*	*0.394*	*0.380*	*3.884*	*0.110*	*0.000*	*1.369*	*0.334*	*1.565*	*1.938*	*0.908*	*0.702*	*0.593*	*0.451*	*36.519*
(100 YR)	*2.421*	*0.722*	*0.897*	*1.728*	*0.216*	*0.652*	*0.661*	*1.204*	*3.007*	*1.303*	*1.546*	*1.236*	*7.100*	*3.854*	*0.437*	*0.422*	*4.315*	*0.122*	*0.000*	*1.522*	*0.371*	*1.739*	*2.154*	*1.008*	*0.780*	*0.659*	*0.501*	*40.577*

LEGEND

DMA IDENTIFICATION (X)

DMA LIMIT (ONSITE ONLY)

EXISTING CONTOUR (5' INTERVAL)

DRAINAGE ARROW

SHEET NOTES

1. (E) 12"Φ CULVERT W/ 6"Φ ROCK RIP RAP
2. (E) ROCK LINED INTERCEPTOR SWALE
3. (E) DETENTION BASIN
4. (E) DRAINAGE RELEASE POINT
5. (E) 30"Φ PIPE
6. (E) RAISED INLET FOR OVERFLOW
7. (E) OVERFLOW PIPE
8. (E) DRAINAGE INLET
9. (E) 12"Φ CULVERT

HAZARD ZONE LEGEND

COUNTY LANDSLIDE HAZARD ZONES

STATE SEISMIC EARTHQUAKE INDUCED LANDSLIDES

USA NORTH 811
Call 811 Before You Dig

REVISIONS	BY

OVERALL SITE DRAINAGE & GEOLOGIC HAZARD ZONING MAP

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
Exp. 6/30/23
CIVIL
STATE OF CALIFORNIA

C2G /CIVIL CONSULTANTS GROUP, INC.
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4444 Scotts Valley Drive / Suite 6
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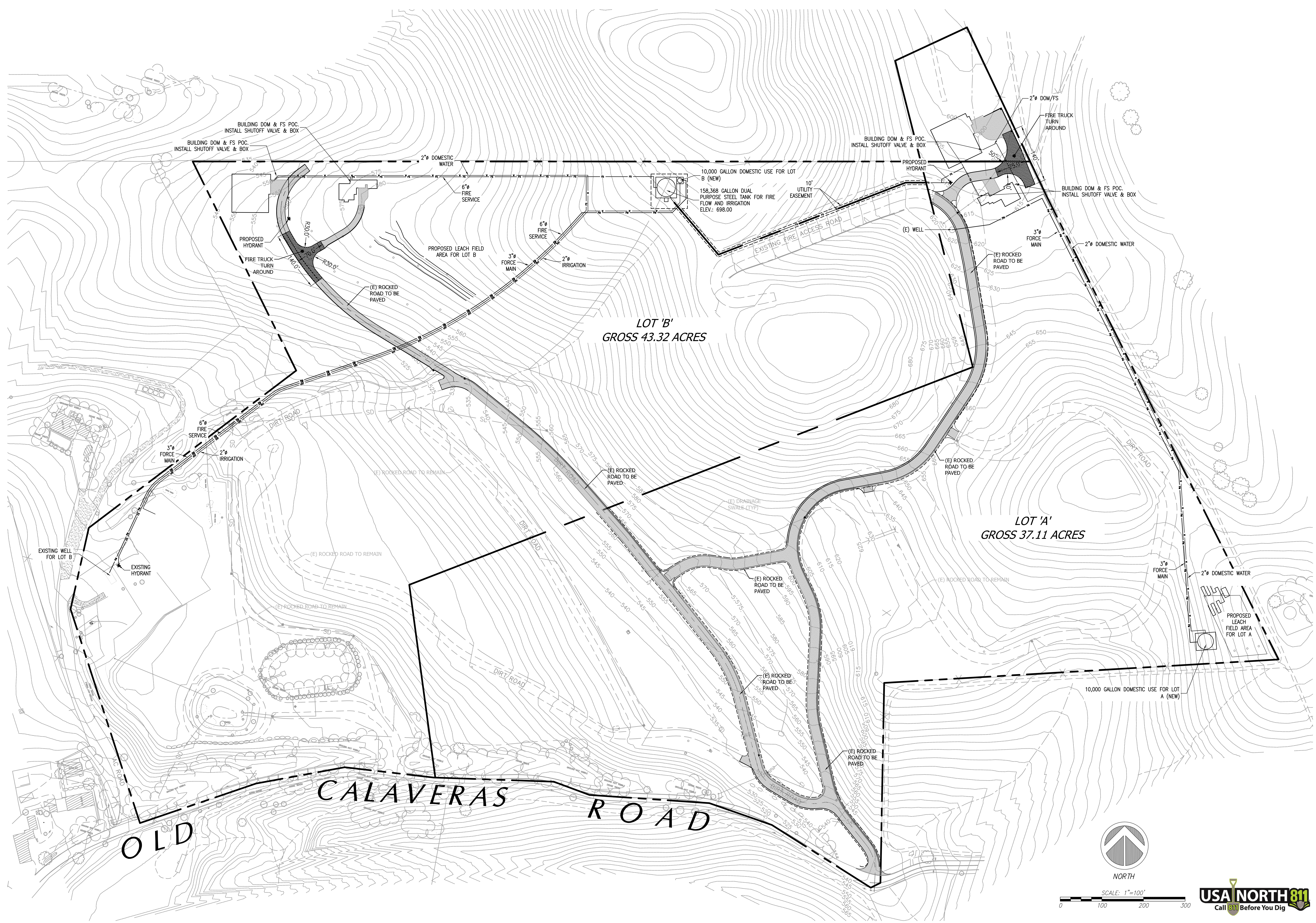
SERPA QUARRY
2-LOT VESTING TENTATIVE MAP
2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

Date: 06/03/21
Scale: 1" = 100'
Drawn: DD
Job: 3007.01
Sheet: C3.1
of 17 Sheets



REVISIONS	BY

FIRE SUPPRESSION AND DOMESTIC WATER PLAN

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
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SERPA QUARRY
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Of 17 Sheets

Drawing: Z:\Shared\CAD\3007.01 - IHF - Serpa Quarry\Design\CAD\Sheets\3007.01 - C4.1 - FIRE SUPPRESSION & DOMESTIC WATER.dwg Layout: C4.1 - OVERALL WATER IMP Last Saved: Tue Jun 29, 2021 - 3:02pm Last Plotted: Wed Jul 07, 2021 - 2:27pm By: Dave