GOKULAM LOT A

APN 029-34-004

COUNTY OF SANTA CLARA

CALIFORNIA

MAY 2024

OWNER/DEVELOPER:
GOKULAM LLC.,
680 E. CALAVERAS BLVD.
MILPITAS, CA 95035
(408) 833- 9743

CIVIL ENGINEER:
NAVIS DBM LLC
39602 POTRERO DRIVE
NEWARK, CALIFORNIA, 94560
(510) 257-4356

SEPTIC SYSTEM DESIGN:
QUESTA ENGINEERING CORP
P.O. BOX 70356
1220 BRICKYARD COVE ROAD
POINT RICHMIND, CA 94807
OFFICE: (510) 236-6114

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

ARCHITECTS:
HAYDEN MOORE ARCHITECTURE
65 N. MICHIGAN AVENUE #12
PASEDENA, CA 91106
OFFICE: (916)342-7658

JOHNSTON ARCHITECTURE GROUP (JAG)
Matthew R. Johnston, AIA, LEED AP BD+C
6738 Mohawk Street
San Diego, CA 92115
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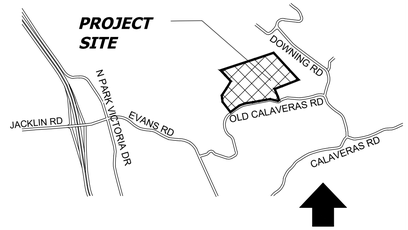
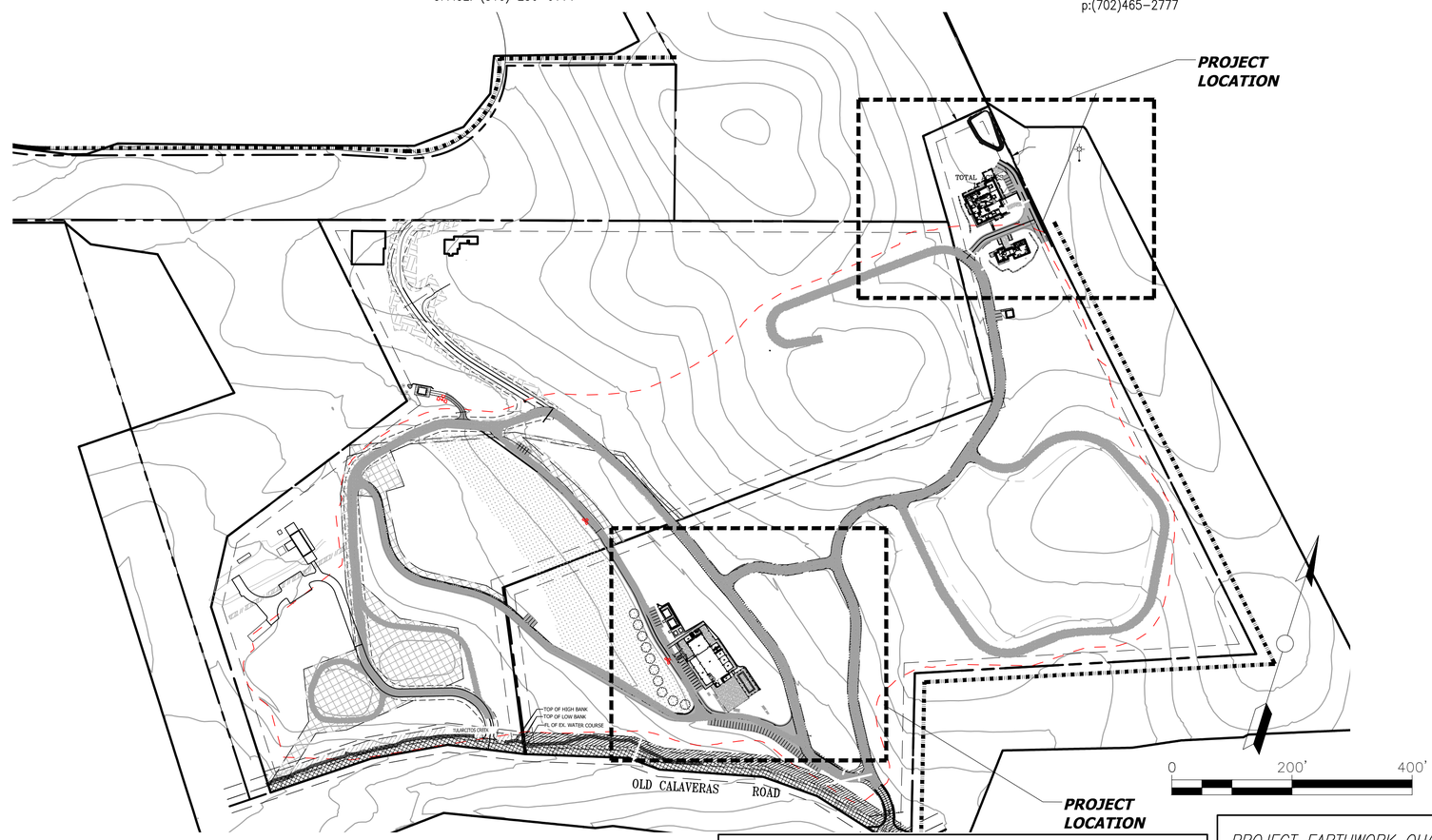
p:(702)465-2777



VICINITY MAP

SCALE: NTS



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SCOPE OF WORK

THE COMPLETE SCOPE OF WORK PROPOSED UNDER THIS PHASE IS FOR THE DESIGN REVIEW AND PRELIMINARY GRADING APPLICATION FOR THE STRUCTURES LISTED BELOW FOR LOTA IN APN: 029-34-004 LOCATED AT 2425, OLD CALAVERAS ROAD, MILPITAS, CA 95035. THE DESIGN REVIEW AND PRELIMINARY GRADING APPLICATION WILL COVER ALL NECESSARY DOCUMENTATION, PLANS AND SPECIFICATIONS REQUIRED FOR THE APPROVAL OF THESE STRUCTURES AT THE SPECIFIED LOCATION.
THE STRUCTURES INCLUDED IN THIS PHASE ARE:

- (N) 7,559SQ. FT OF GROSS FLOOR AREA FOR PRIMARY HOUSE
- (N) 1,698 SQ. FT OF GROSS FLOOR AREA FOR ADU AND JADU
- (N) 441 SQ. FT OF DETACHED GARAGE
- (N) 14,485 SQ. FT OF GROSS FLOOR AREA FOR A BARN FOR LIVESTOCK SHELTER AND SMALL SCALE AGRICULTURAL PROCESSING
- (N) 1,200 SQ. FT OF GROSS FLOOR AREA FOR LIMITED AGRICULTURAL SALES
- (R) 404 SQ. FT OF GROSS FLOOR AREA FOR RELOCATING A METAL LIVESTOCK SHELTER FROM LOTB

KEY POINTS TO NOTE ABOUT THE PROPOSED SCOPE OF WORK:

- APPROVED DRINKING WATER CLEARANCE (SR0867334) ALREADY INCLUDED PROVISION FOR THE BIG BARN, PRIMARY HOUSE AND ADU/JADU INCLUDED IN THIS APPLICATION.
  · WE HAVE APPLIED FOR OWTS APPROVAL TO SUPPORT THE PROPOSED STRUCTURES
- WE HAVE A MANURE MANAGEMENT PLAN APPROVED BY DEPARTMENT OF ENVIRONMENTAL HEALTH FOR HANDLING OF THE LIVESTOCK IN THE BIG BARN
- THIS LOCATION FOR THE DIFFERENT STRUCTURES WAS CHOSEN AS IT MINIMIZES GRADING QUANTITIES REQUIRED TO ESTABLISH THESE STRUCTURES WHILE UTILIZING EXISTING BASEROCKED ROADS APPROVED BY SANTA CLARA COUNTY AS PART OF THE 2015 RECLAMATION AMENDMENT PLAN.

IN ADDITION TO THESE STRUCTURES WE HAVE BUILDING PERMIT AND PLANNING APPROVAL APPLICATIONS UNDERWAY TO BUILD FACILITIES FOR COMMERCIAL AGRICULTURAL OPERATIONS OF GOKULAM LLC ON LOT A IN THE PROPERTY. WE HAVE 4 ACRES OF ORCHARDS AND VEGETABLE CULTIVATION WITH DRIP IRRIGATION SYSTEM. THE PRODUCE FROM THE FARMING OPERATIONS WILL BE USED IN THE 2,400 SQ FT SMALL SCALE AGRICULTURAL PROCESSING FACILITY FOR THE PRODUCTION OF INDIAN PICKLES WHICH WILL BE SOLD IN THE 1200 SQ FT LIMITED AGRICULTURAL SALES BUILDING. THE FACILITY WILL PRODUCE ~750 UNITS OF TYPICAL PICKLE JAR OF 17.6 OUNCES/500 GRAMS AND PICKLE TASTING MEALS OF 15–20 OUNCES/MEAL. THE SEPTIC SYSTEM HAS BEEN DESIGNED FOR THIS CAPACITY.

WE HAVE INCLUDED A COMPREHENSIVE LIST OF ALL PROPOSED STRUTCURES AS OUTLINED BELOW.

LOT A HAS 5 BUILDING PERMITS IN PROGRESS. DEV22–3196, DEV22–3201, DEV22–3202, DEV22–3206, DEV22–3207, DEV23–0115, THE SITE PLAN INCLUDES ALL STRUCTURES AND THEIR CORRESPONDING PERMIT NUMBERS. THE SPECIFIC DETAILS FOR EACH STRUCTURE ARE AS FOLLOWS:

- (N) 500 SQ. FT. OF COVERED AREA FOR LIVESTOCK SHELTER#1 DEV22–3196
- (N) 500 SQ. FT. OF COVERED AREA FOR LIVESTOCK SHELTER#2 DEV22–3201
- (N) 500 SQ. FT. OF COVERED AREA FOR LIVESTOCK SHELTER#3 DEV22–3202
- (N) 120 SQ. FT. OF COVERED AREA FOR STORAGE #1 – DEV22–3206
- (N) 120 SQ. FT. OF COVERED AREA FOR STORAGE #1 – DEV22–3207

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.

PROJECT DATA

PROJECT DATA

ADDRESS: 2425 OLD CALAVERAS ROAD, MILPITAS, CA 95035

ZONING DESIGNATION: D2 – HS – HILLSIDE

APN: Lot A in APN 029–34–004

LOT SIZE: 37.11 ACRES

BUILDING AREA: 64,400 SQ. FT. OF COVERED AREA
35,439 SQ. FT. (BUILDING AREA TOTAL)
3.98% OF ENTIRE LOT

PRELIMINARY

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.

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

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.

APPLICABLE CODES

APPLICABLE CODES ALL CONSTRUCTION SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES AND THE CODES LISTED BELOW OR THE MOST CURRENT CODES AND ORDANCENCES AT THE TIME OF SUBMITTAL:

2022 CALIFORNIA CODES

1. 2022 CALIFORNIA BUILDING CODE
2. 2022 CALIFORNIA ELECTRICAL CODE
3. 2022 CALIFORNIA MECHANICAL CODE
4. 2022 CALIFORNIA PLUMBING CODE
5. 2022 CALIFORNIA GREEN BUILDING CODE
6. 2022 CALIFORNIA ENERGY CODE
7. 2022 CALIFORNIA RESIDENTIAL CODE
8. 2022 CALIFORNIA FIRE CODE

SANTA CLARA CODE OF ORDINANCES

CONSTRUCTION SURVEYING / STAKING

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

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.

PROJECT EARTHWORK QUANTITIES NEEDING GRADING PERMIT

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
PRIMARY RESIDENCE (BLDG+5' PERIMETER)	614	33	581 (C)	6.29	3.35
SITE GRADING @ PRIMARY RESIDENCE	98	642	544 (F)	7.61	1.10
SFR ROAD B	56	441	385 (C)	2.52	4.46
TOTAL	768	1,116	348(F)		

NET VOLUME = 348 CU.YDS. OF FILL

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.

PROJECT EARTHWORK QUANTITIES WITH RECLAMATION AREA

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
BIG BARN & AG SALES (BLDG+5' PERIMETER)	797	14	783(C)	5.2	1.10
SITE GRADING @ BARN	837	0	837(C)	7.61	1.10
ACCESS ROAD A AND PARKING @ BARN	188	1,505	1,317(F)	2.52	4.46
ADU/JADU (BLDG + 5' PERIMETER)	0	432	432(F)	0.87	5
ADU/JADU GRADING	316	463	147(F)	4.64	5
SFR ROAD A	322	72	250(C)	4.81	4.23
PRIMARY RESIDENCE GRADING	90	113	23(F)	4.9	5.03
SFR ROAD B	136	4	132(C)	4.81	4.23
TOTAL	2,686	2,603	83(C)		

NOTE: EXISTING GRAVEL ROADS TO BE ASPHALTED PER 2022 RECLAMATION PLAN AMENDMENT: MAIN ACCESS ROAD , CONNECTOR ROAD

NET VOLUME = 83 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.

BY	DATE	REVISIONS

NAVIS
design | build | manage
info@navisdbm.com

5/10/2024
DATE
KS, SB
DRAWN BY
SB
CHECKED BY

REGISTERED PROFESSIONAL ENGINEER
SHARAT CHANDRA BANDUGULA
No. 82491
CIVIL
STATE OF CALIFORNIA

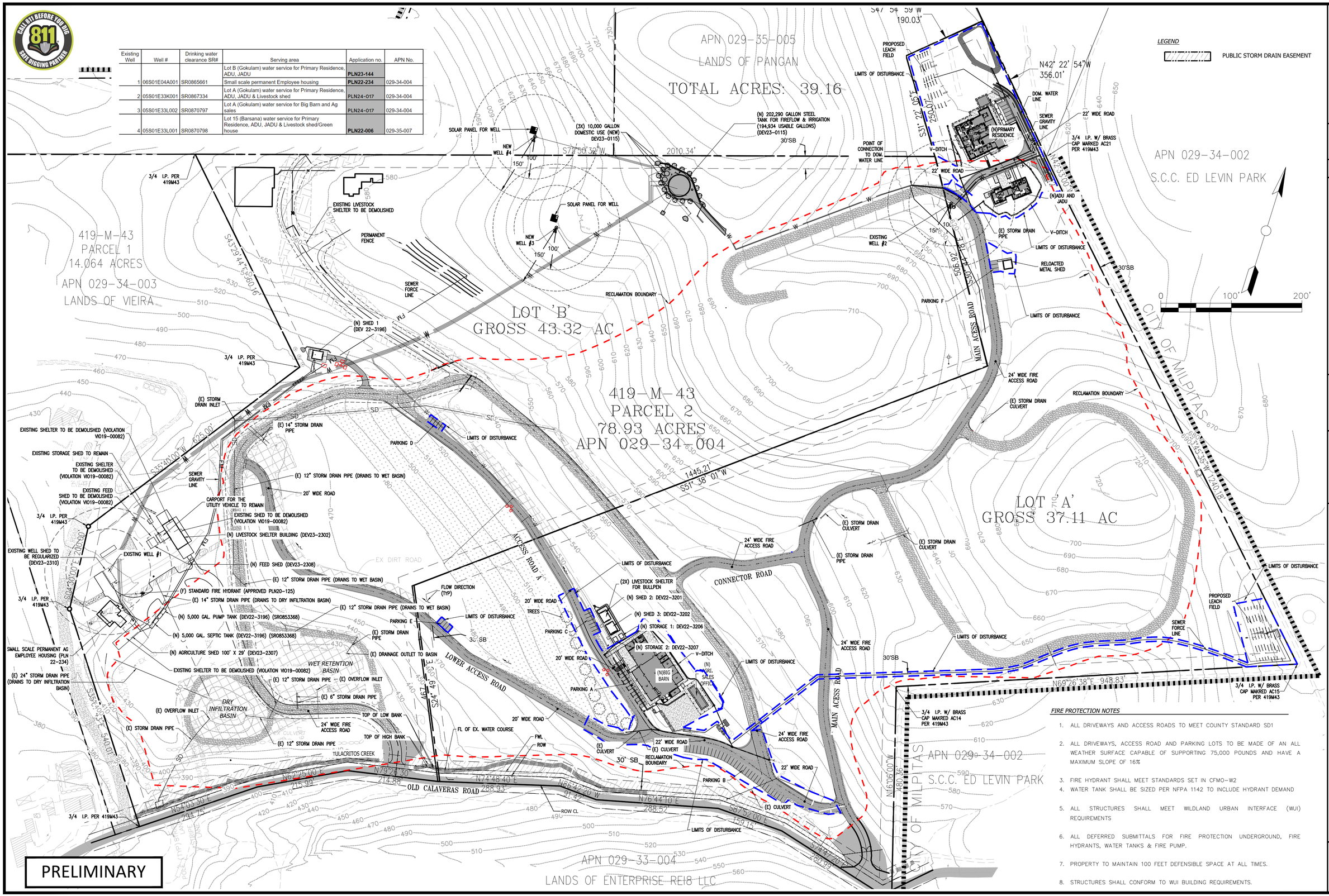
GOKULAM LOT A
COUNTY OF SANTA CLARA
CALIFORNIA

COVER SHEET

C0.0
OF
XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL

Existing Well	Well #	Drinking water clearance SR#	Serving area	Application no.	APN No.
1	06S01E04A001	SR0865661	Lot B (Gokulam) water service for Primary Residence, ADU, JADU	PLN23-144	
			Small scale permanent Employee housing	PLN22-234	029-34-004
2	05S01E33K001	SR0867334	Lot A (Gokulam) water service for Primary Residence, ADU, JADU & Livestock shed	PLN24-017	029-34-004
3	05S01E33L002	SR0870797	Lot A (Gokulam) water service for Big Barn and Ag sales	PLN24-017	029-34-004
4	05S01E33L001	SR0870798	Lot 15 (Barsana) water service for Primary Residence, ADU, JADU & Livestock shed/Green house	PLN22-006	029-35-007



PRELIMINARY

FIRE PROTECTION NOTES

1. ALL DRIVEWAYS AND ACCESS ROADS TO MEET COUNTY STANDARD SD1
2. ALL DRIVEWAYS, ACCESS ROAD AND PARKING LOTS TO BE MADE OF AN ALL WEATHER SURFACE CAPABLE OF SUPPORTING 75,000 POUNDS AND HAVE A MAXIMUM SLOPE OF 16%
3. FIRE HYDRANT SHALL MEET STANDARDS SET IN CFMO-W2
4. WATER TANK SHALL BE SIZED PER NFPA 1142 TO INCLUDE HYDRANT DEMAND
5. ALL STRUCTURES SHALL MEET WILDLAND URBAN INTERFACE (WUI) REQUIREMENTS
6. ALL DEFERRED SUBMITTALS FOR FIRE PROTECTION UNDERGROUND, FIRE HYDRANTS, WATER TANKS & FIRE PUMP.
7. PROPERTY TO MAINTAIN 100 FEET DEFENSIBLE SPACE AT ALL TIMES.
8. STRUCTURES SHALL CONFORM TO WUI BUILDING REQUIREMENTS.

BY	DATE	REVISIONS

NAVIS
design | build | manage
info@navisdbm.com

5/10/2024 DATE
KS, SB DRAWN BY
SB CHECKED BY

REGISTERED PROFESSIONAL ENGINEER SHARATCHANDRA BANDUGULA No. 82491 CIVIL STATE OF CALIFORNIA

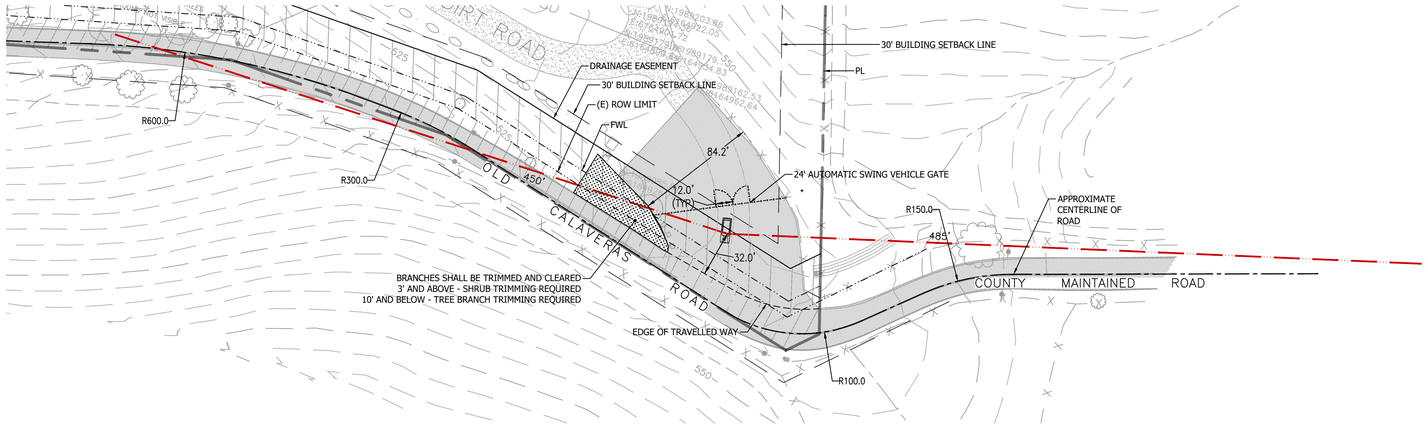
GOKULAM LOT A

OVERALL SITE PLAN

COUNTY OF SANTA CLARA CALIFORNIA

C0.1 OF XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



1 ENTRANCE - SITE DISTANCE ANALYSIS

Scale: 1":50'

NOTES

1. EXISTING SPEED LIMIT ON OLD CALAVERAS ROAD IS 30 MPH WHICH IS THE SPEED USED TO DETERMINE THE STOPPING SIGHT DISTANCE AND DECISION SIGHT DISTANCE.
2. EXISTING DRIVEWAY SHALL BE DESIGNATED AS PRIVATE EMERGENCY VEHICLE ACCESS DRIVEWAY.

CALTRANS SIGHT DISTANCE STANDARDS

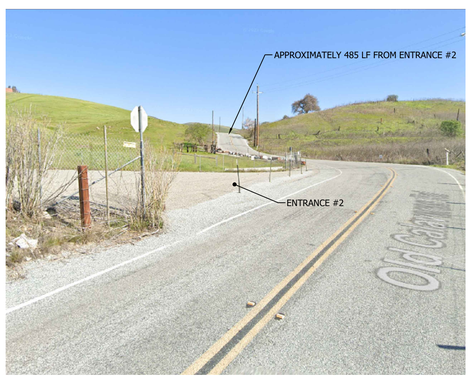
Table 201.1

Sight Distance Standards

Design Speed (1) (mph)	Stopping (2) (ft)	Passing (ft)
10	50	---
15	100	---
20	125	800
25	150	950
30	200	1,100
35	250	1,300
40	300	1,500
45	360	1,650
50	430	1,800
55	500	1,950
60	580	2,100
65	660	2,300

Decision Sight Distance

Design Speed (mph)	Decision Sight Distance (ft)
30	450
35	525
40	600
45	675
50	750
55	865
60	990
65	1,050
70	1,105
75	1,180
80	1,260

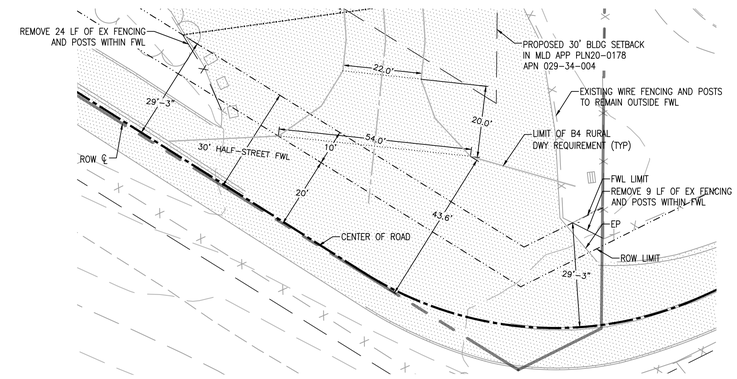


EAST BOUND

WEST BOUND

2 ENTRANCE #2 - IMAGES

Scale: NTS



3 EXISTING DRIVEWAY CONFORMANCE TO B4 COUNTY STANDARD

Scale: 1":20'

REVISIONS	BY

SIGHT DISTANCE ANALYSIS

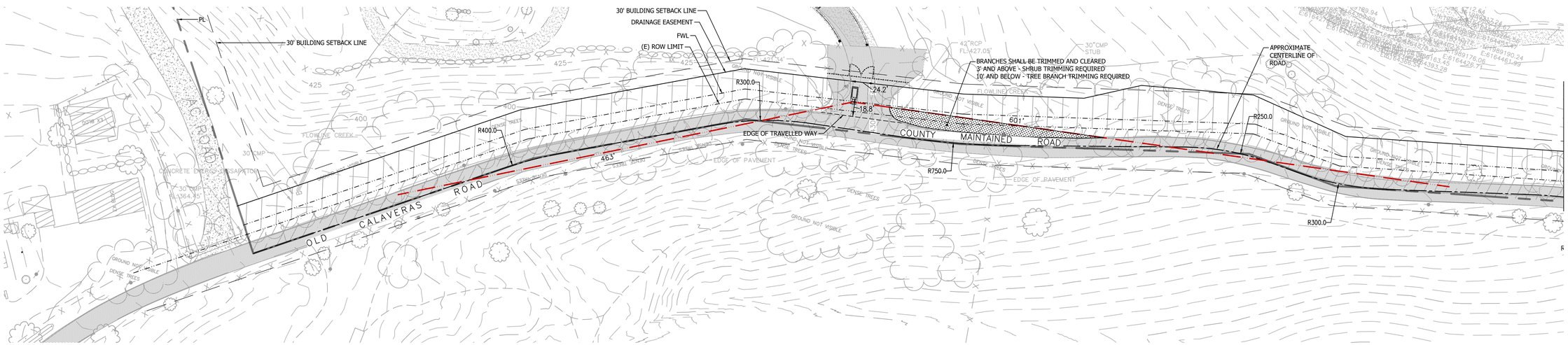
REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
Exp. 6/30/25
CIVIL
STATE OF CALIFORNIA

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

GOKULAM, LLC.
LOT B – DESIGN REVIEW
2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

Date:	11/10/2023
Scale:	1" = 50'
Drawn:	DD/ESM
Job:	3007.05
Sheet:	C0.2

Drawing: Z:\Drawing\CAD\3007.05 – JHF – Lot B Building Permit\Design\CAD\Sheets\3007.05 – C0.4 – SIGHT DISTANCE ANALYSIS.dwg Layout: C0.4 Last Saved: Tue Apr 30, 2024 – 3:50pm Last Plotted: Wed May 22, 2024 – 1:07pm By: Erik.Snellgrove



1 ENTRANCE - SIGHT DISTANCE ANALYSIS

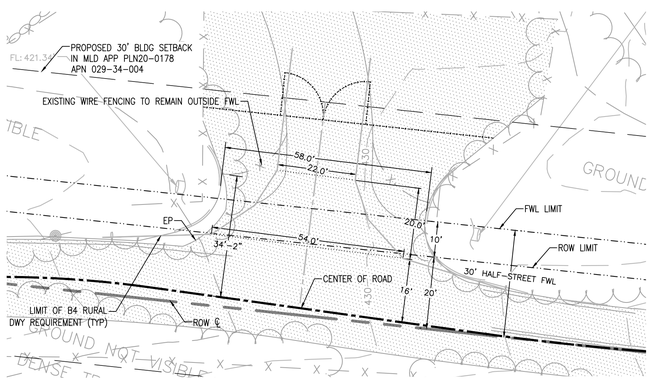
Scale: 1":50'

WEST BOUND

EAST BOUND

2 ENTRANCE #1 - IMAGES

Scale: NTS



3 EXISTING DRIVEWAY CONFORMANCE TO B4 COUNTY STANDARD

Scale: 1":20'

CALTRANS SIGHT DISTANCE STANDARDS

Table 201.1

Sight Distance Standards

Design Speed (1) (mph)	Stopping (2) (ft)	Passing (ft)
10	50	---
15	100	---
20	125	800
25	150	950
30	200	1,100
35	250	1,300
40	300	1,500
45	360	1,650
50	430	1,800
55	500	1,950
60	580	2,100
65	660	2,300

Decision Sight Distance

Design Speed (mph)	Decision Sight Distance (ft)
30	450
35	525
40	600
45	675
50	750
55	865
60	990
65	1,050
70	1,105
75	1,180
80	1,260

NOTES

1. EXISTING SPEED LIMIT ON OLD CALAVERAS ROAD IS 30 MPH WHICH IS THE SPEED USED TO DETERMINE THE STOPPING SIGHT DISTANCE AND DECISION SIGHT DISTANCE.
2. EXISTING DRIVEWAY SHALL BE DESIGNATED AS PRIVATE EMERGENCY VEHICLE ACCESS DRIVEWAY.

REVISIONS	BY

SIGHT DISTANCE ANALYSIS

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
Exp. 6/30/25
CIVIL
STATE OF CALIFORNIA

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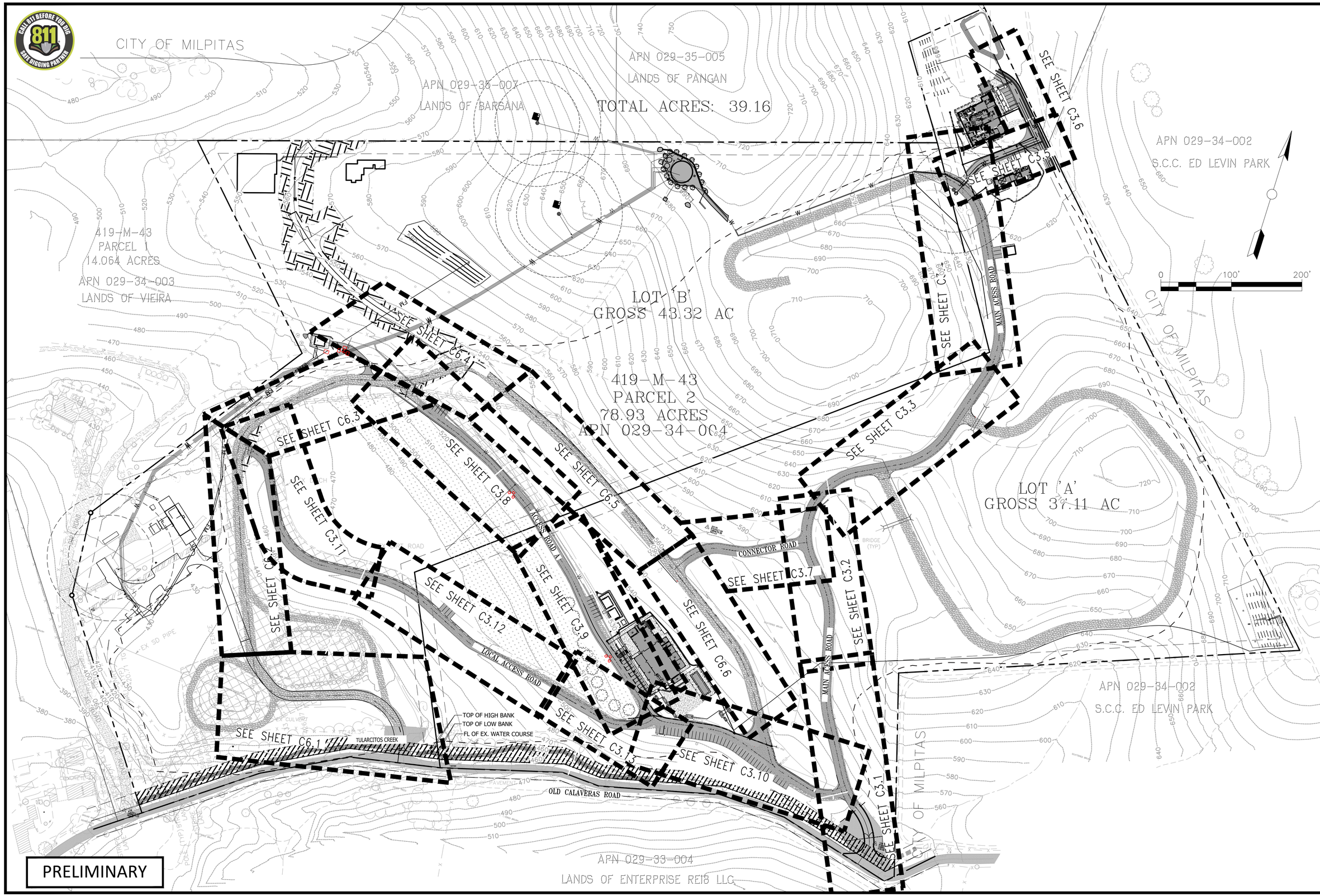
Engineers/Planners
4444 Scotts Valley Drive / Suite 6
Scotts Valley, CA 95066
T (831) 438-4420 F (831) 438-4420

GOKULAM, LLC.
LOT B – DESIGN REVIEW
2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

Date:	11/10/2023
Scale:	1" = 50'
Drawn:	DD/ESM
Job:	3007.05
Sheet:	C0.3

Drawing: Z:\Shared\CAD\3007.05 - 1HP - Lot B Building Permit\Design\CAD\Sheets\3007.03 - C0.3 - SIGHT DISTANCE ANALYSIS.dwg Layout: C0.3 Last Saved: Tue Apr 30, 2024 - 7:45am Last Plotted: Wed May 22, 2024 - 1:07pm By: EMSanfilippo



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SB
CHECKED BY

REGISTERED PROFESSIONAL ENGINEER
SHARA FERNANDA BARDUGULA
No. 82491
CIVIL
STATE OF CALIFORNIA

GOKULAM LOT A

ROAD SHEET INDEX

COUNTY OF SANTA CLARA
CALIFORNIA

C0.4
OF
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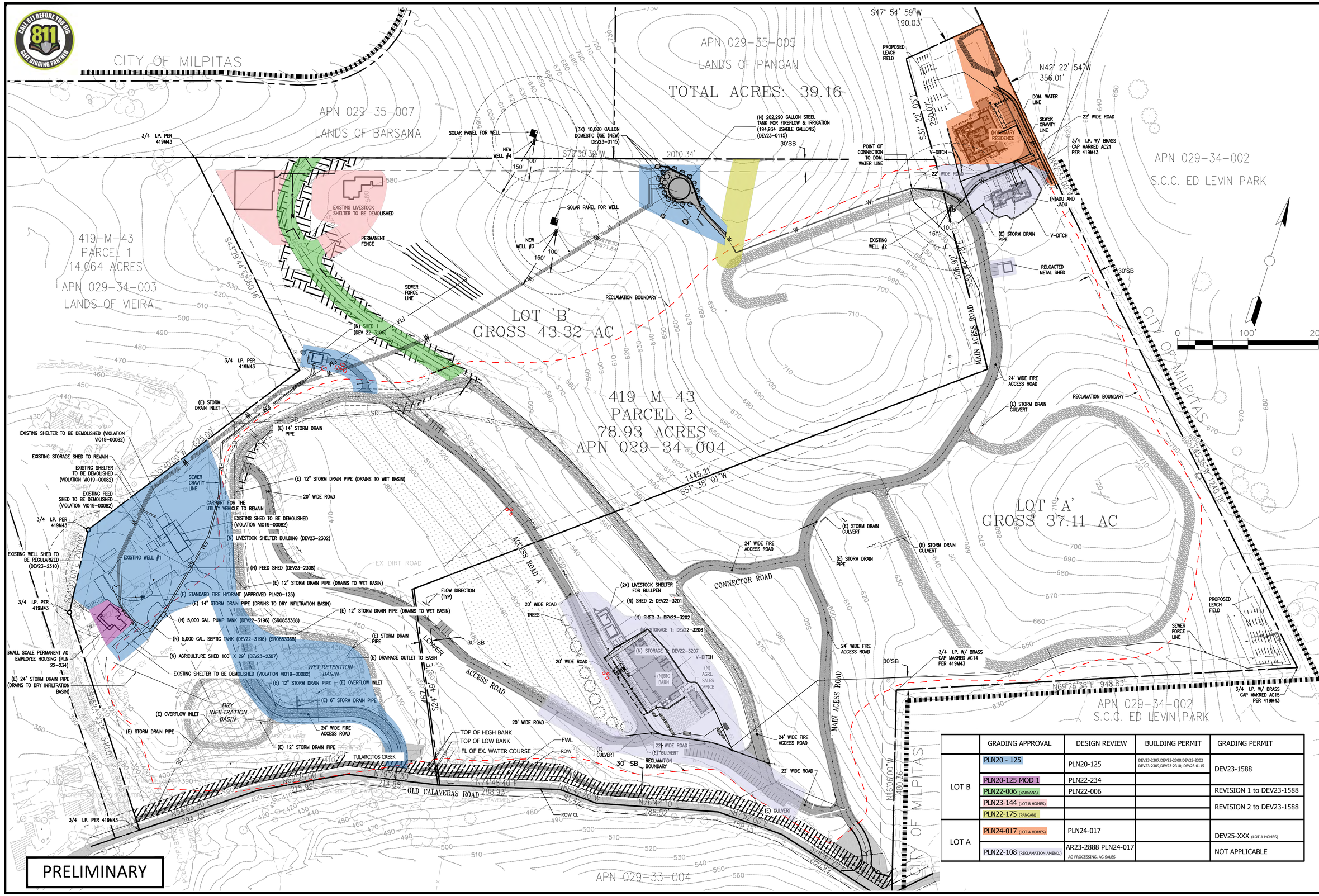
GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



	GRADING APPROVAL	DESIGN REVIEW	BUILDING PERMIT	GRADING PERMIT
LOT B	PLN20 - 125	PLN20-125	DEV23-2307,DEV23-2308,DEV23-2302 DEV23-2309,DEV23-2310, DEV23-0115	DEV23-1588
	PLN20-125 MOD 1	PLN22-234		
	PLN22-006 (BARSANA)	PLN22-006		REVISION 1 to DEV23-1588
	PLN23-144 (LOT B HOMES)			REVISION 2 to DEV23-1588
	PLN22-175 (PANGAN)			
LOT A	PLN24-017 (LOT A HOMES)	PLN24-017		DEV25-XXX (LOT A HOMES)
	PLN22-108 (RECLAMATION AMEND.)	AR23-2888 PLN24-017 AG PROCESSING, AG SALES		NOT APPLICABLE

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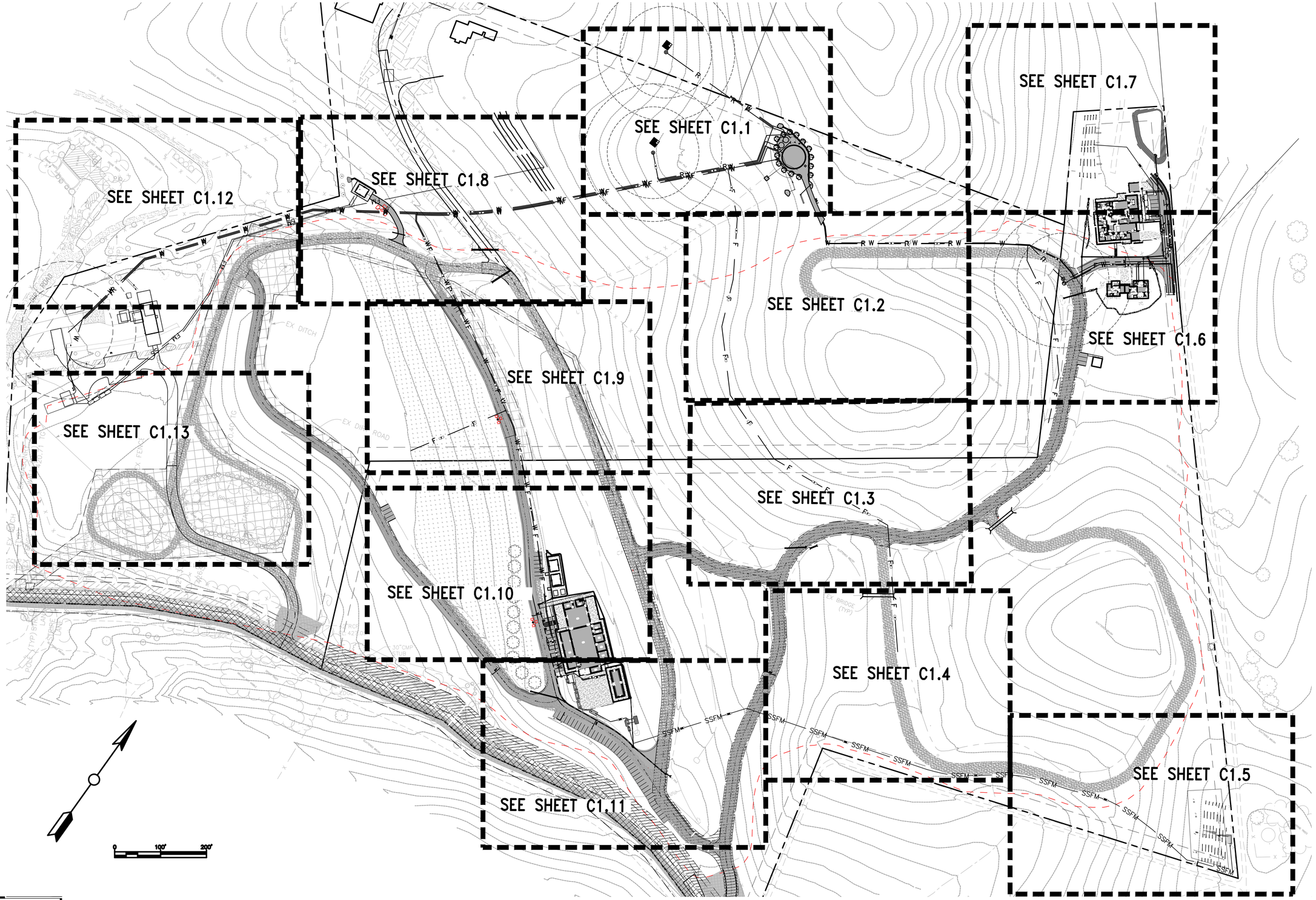
No. 82491
CIVIL
STATE OF CALIFORNIA

GOKULAM LOT A GRADING PERMITS PROCESS OVERVIEW

COUNTY OF SANTA CLARA CALIFORNIA

C0.5 OF XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



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GOKULAM LOT A

UTILITY SHEET INDEX

COUNTY OF SANTA CLARA
CALIFORNIA

C1.0
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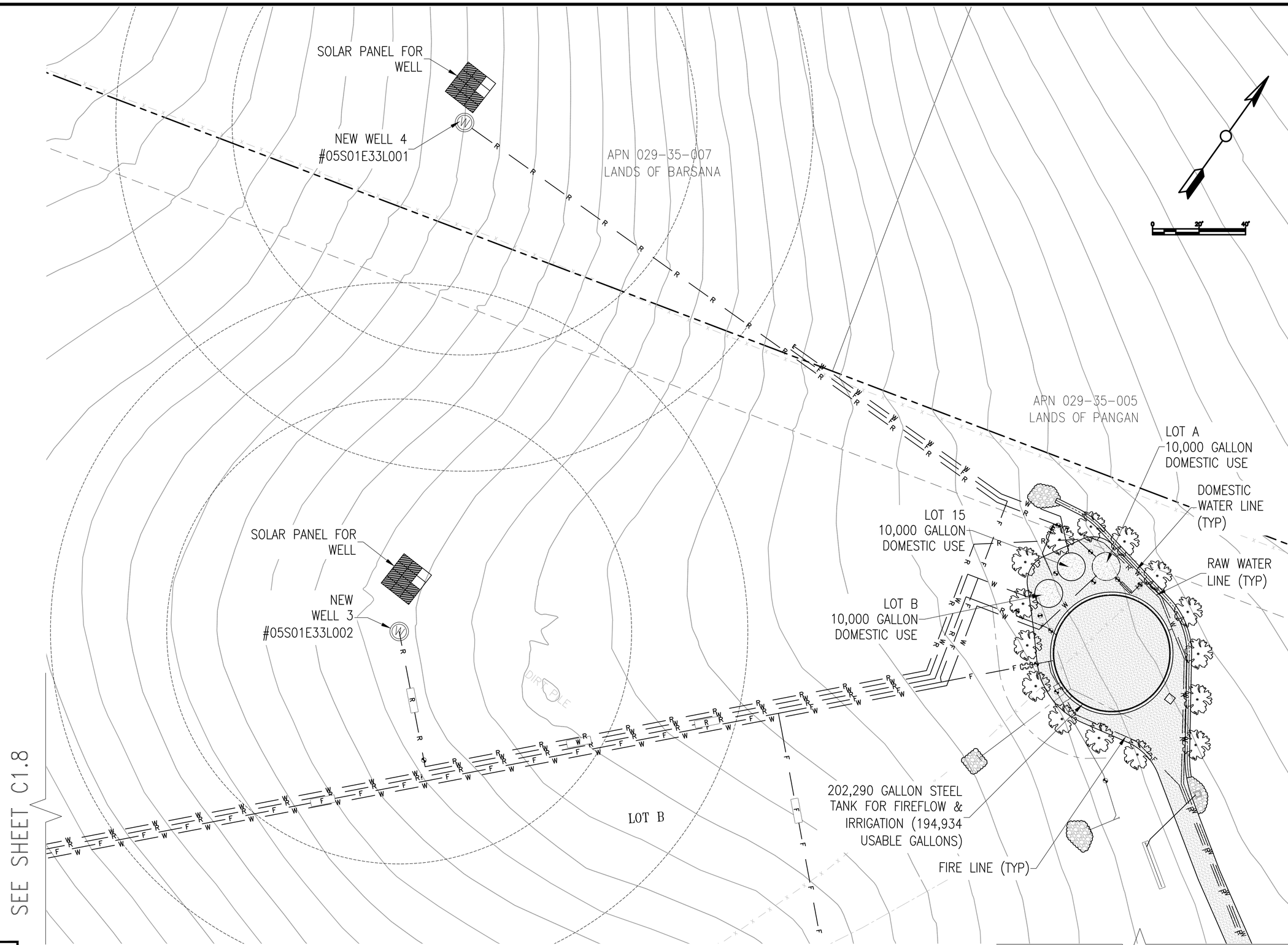
GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



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GOKULAM LOT A
COUNTY OF SANTA CLARA

UTILITY PLAN

CALIFORNIA

C1.1
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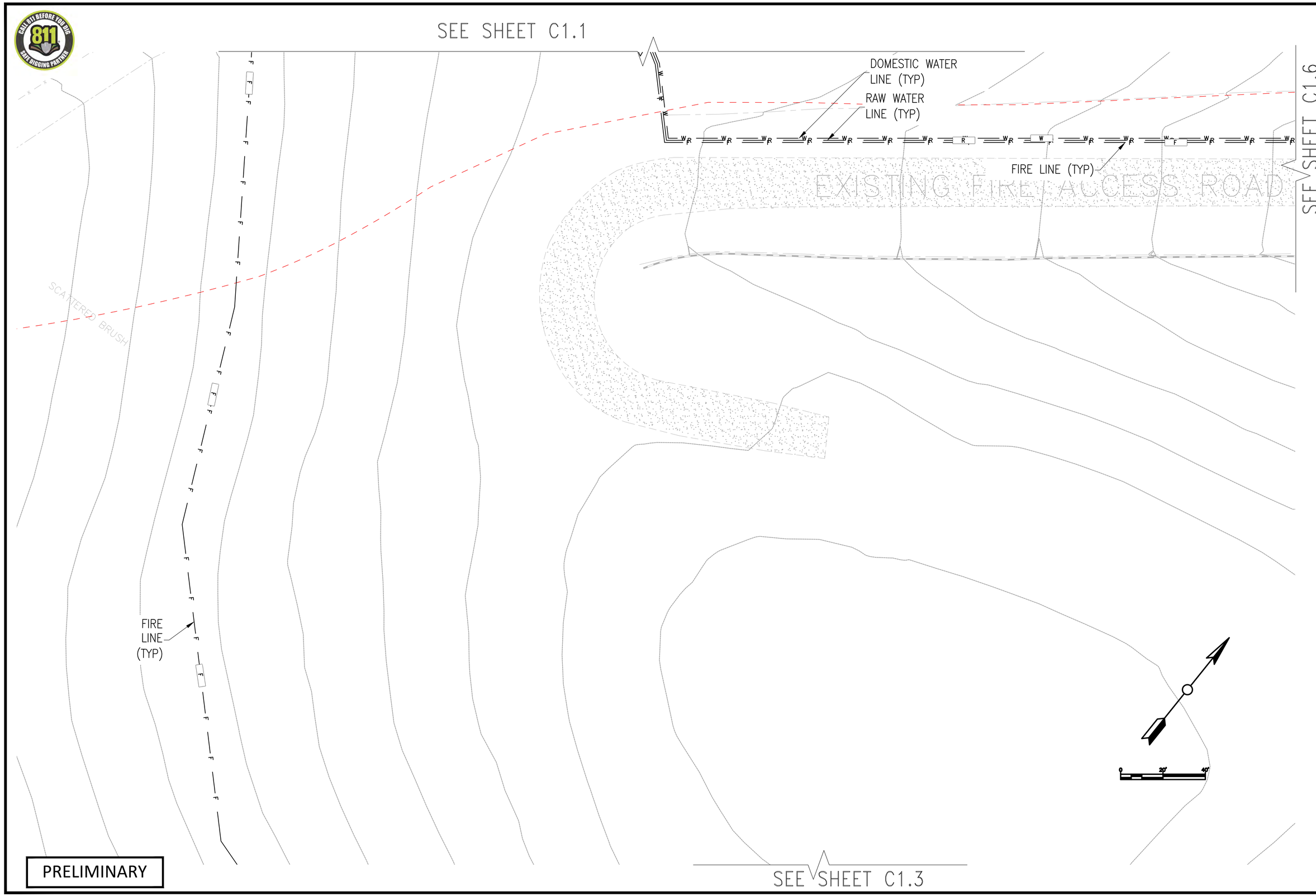
GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



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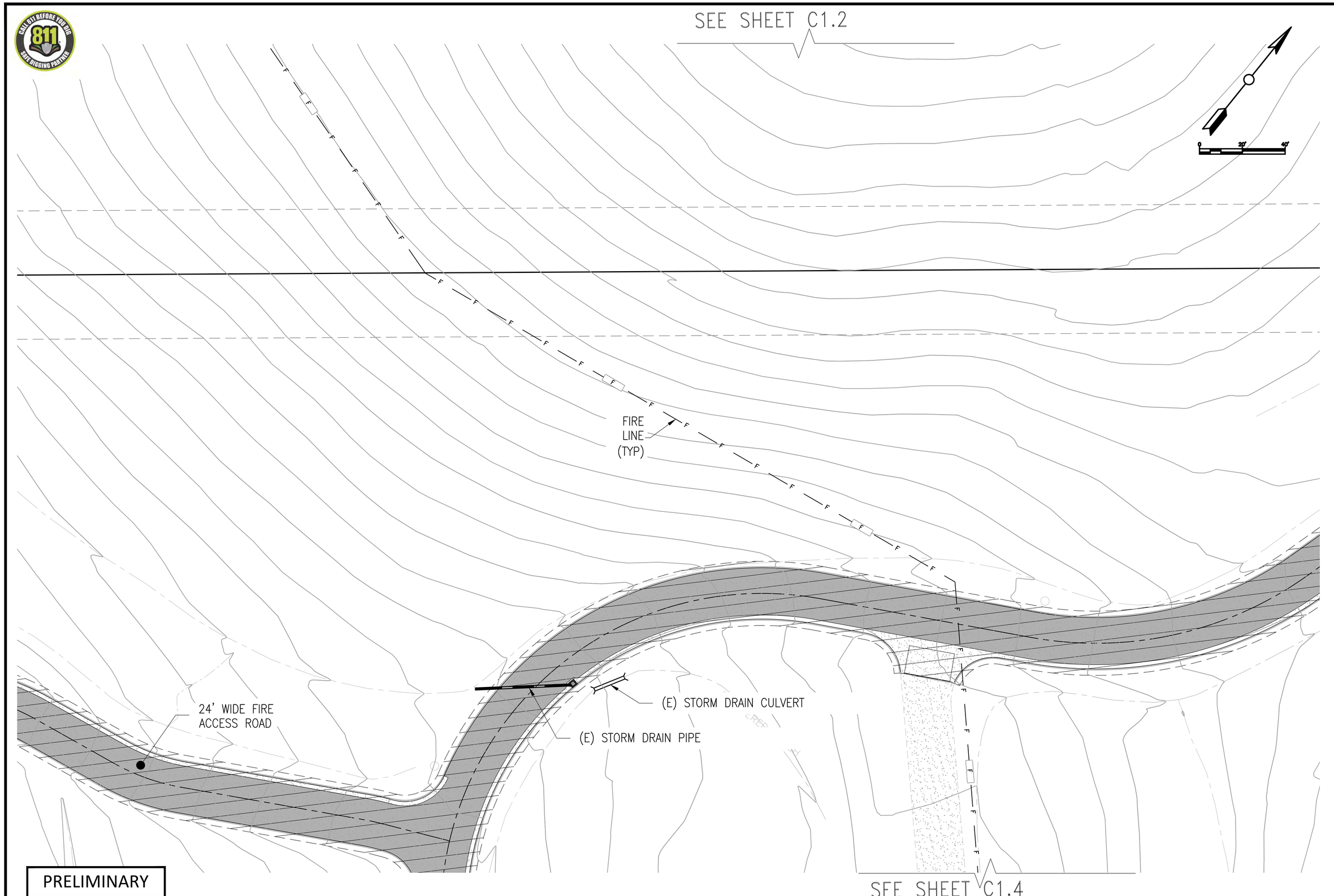
GOKULAM LOT A

UTILITY PLAN

COUNTY OF SANTA CLARA CALIFORNIA

C1.2 OF XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



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GOKULAM LOT A

UTILITY PLAN

COUNTY OF SANTA CLARA
CALIFORNIA

C1.3
OF
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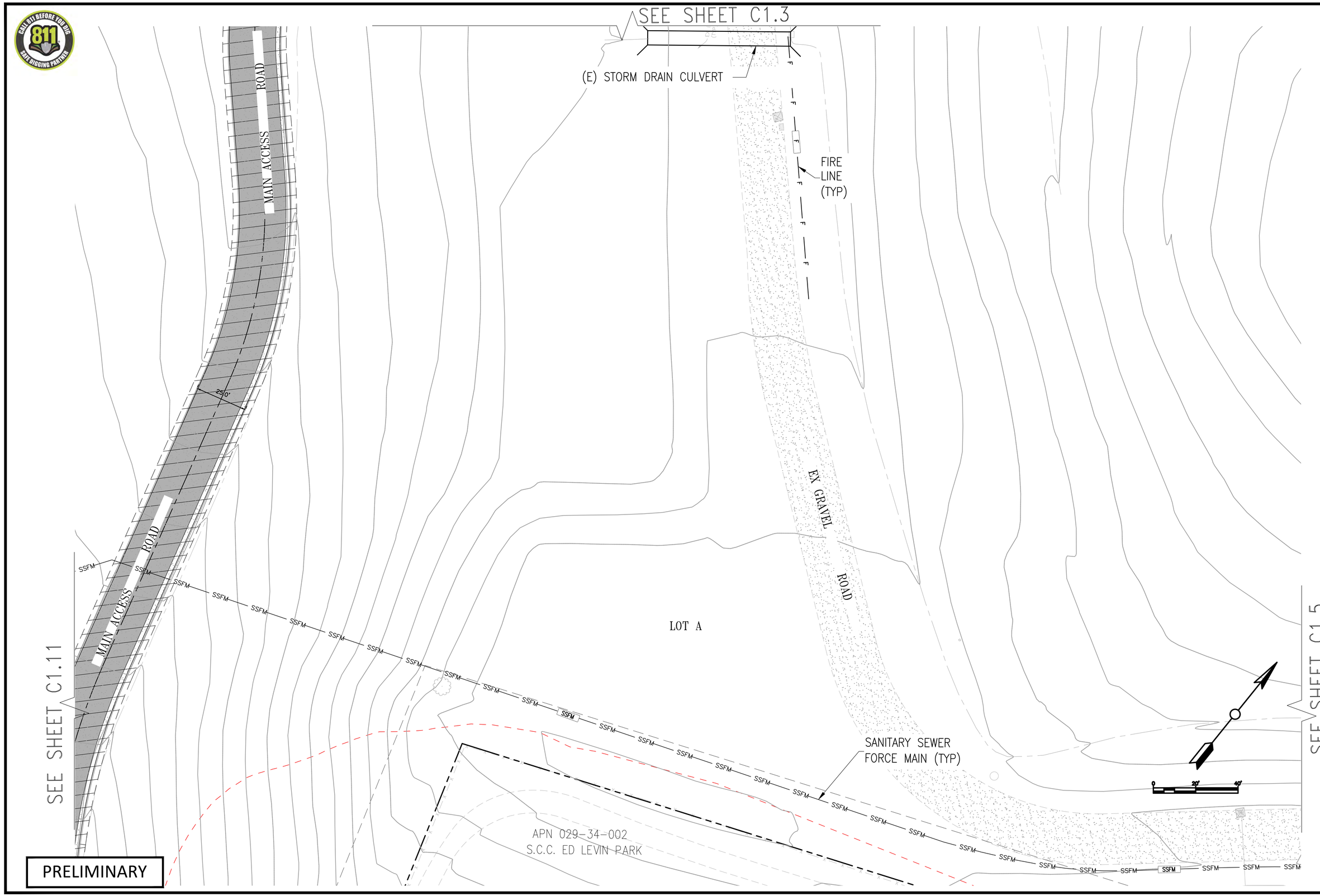

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GOKULAM LOT A
UTILITY PLAN
COUNTY OF SANTA CLARA
CALIFORNIA

C1.4
OF
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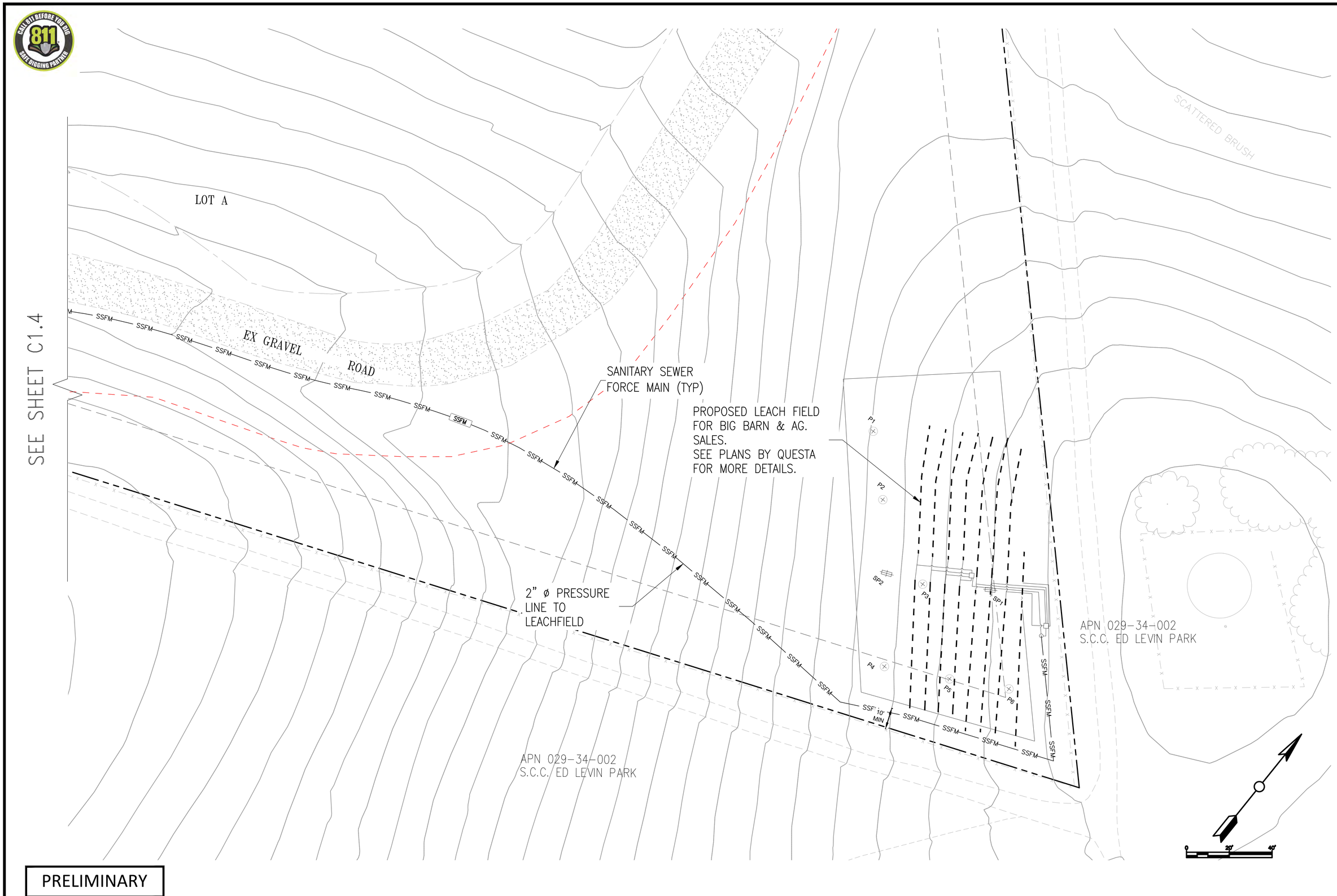
GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



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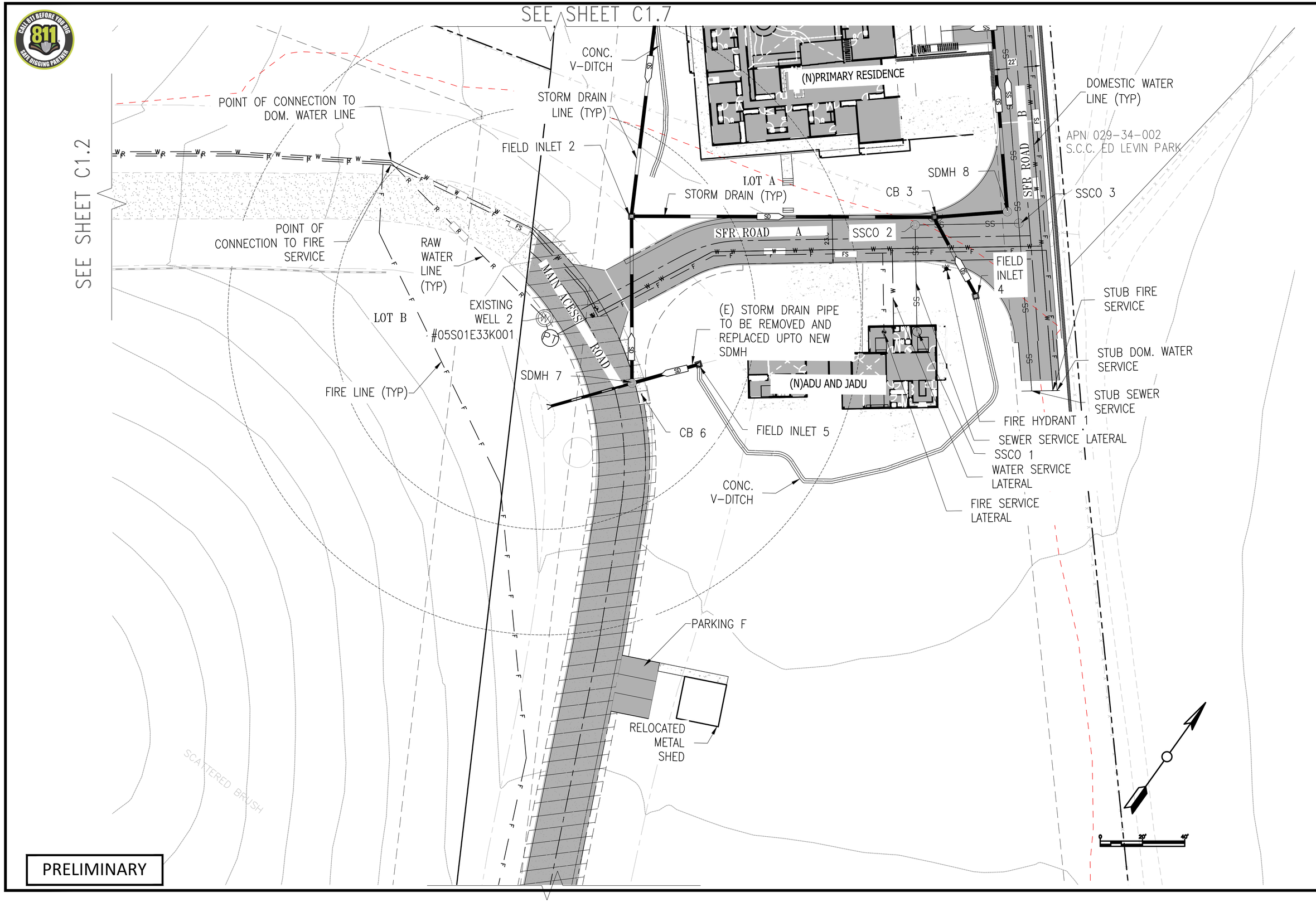
GOKULAM LOT A
UTILITY PLAN
COUNTY OF SANTA CLARA
CALIFORNIA

C1.5 OF XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



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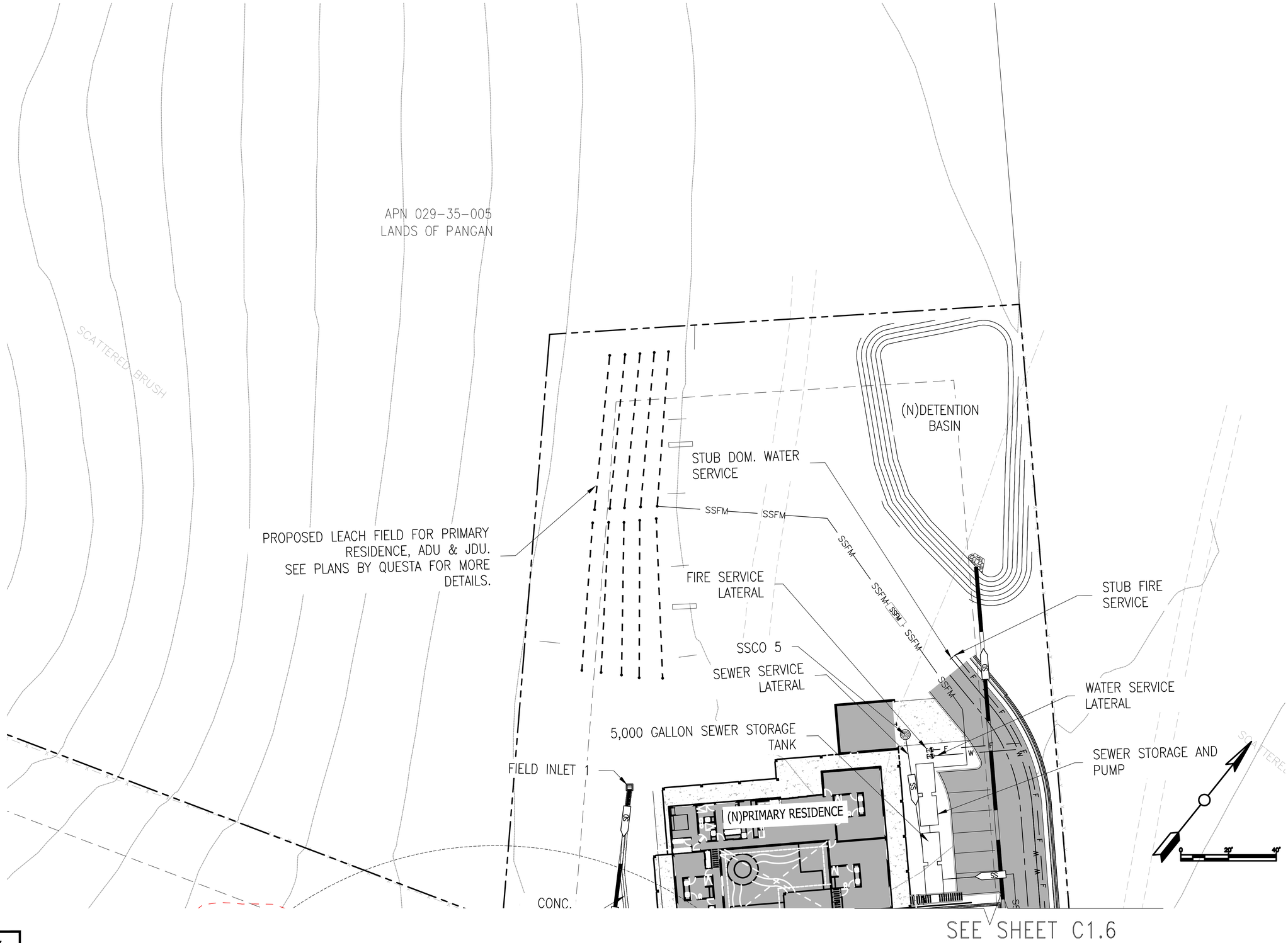
GOKULAM LOT A

UTILITY PLAN

COUNTY OF SANTA CLARA CALIFORNIA

C1.6 OF XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



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GOKULAM LOT A
COUNTY OF SANTA CLARA

UTILITY PLAN

CALIFORNIA

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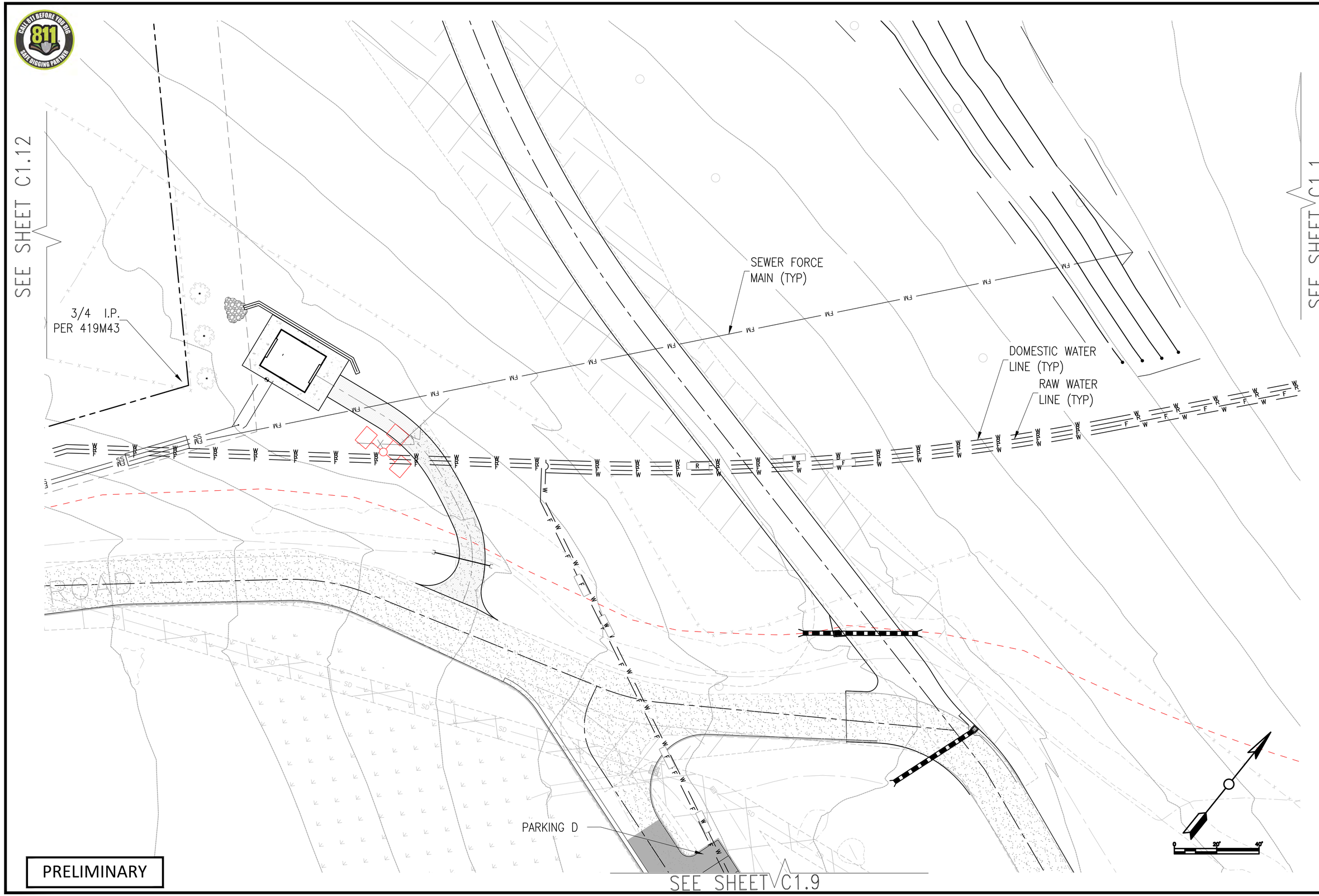
GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



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GOKULAM LOT A

UTILITY PLAN

COUNTY OF SANTA CLARA
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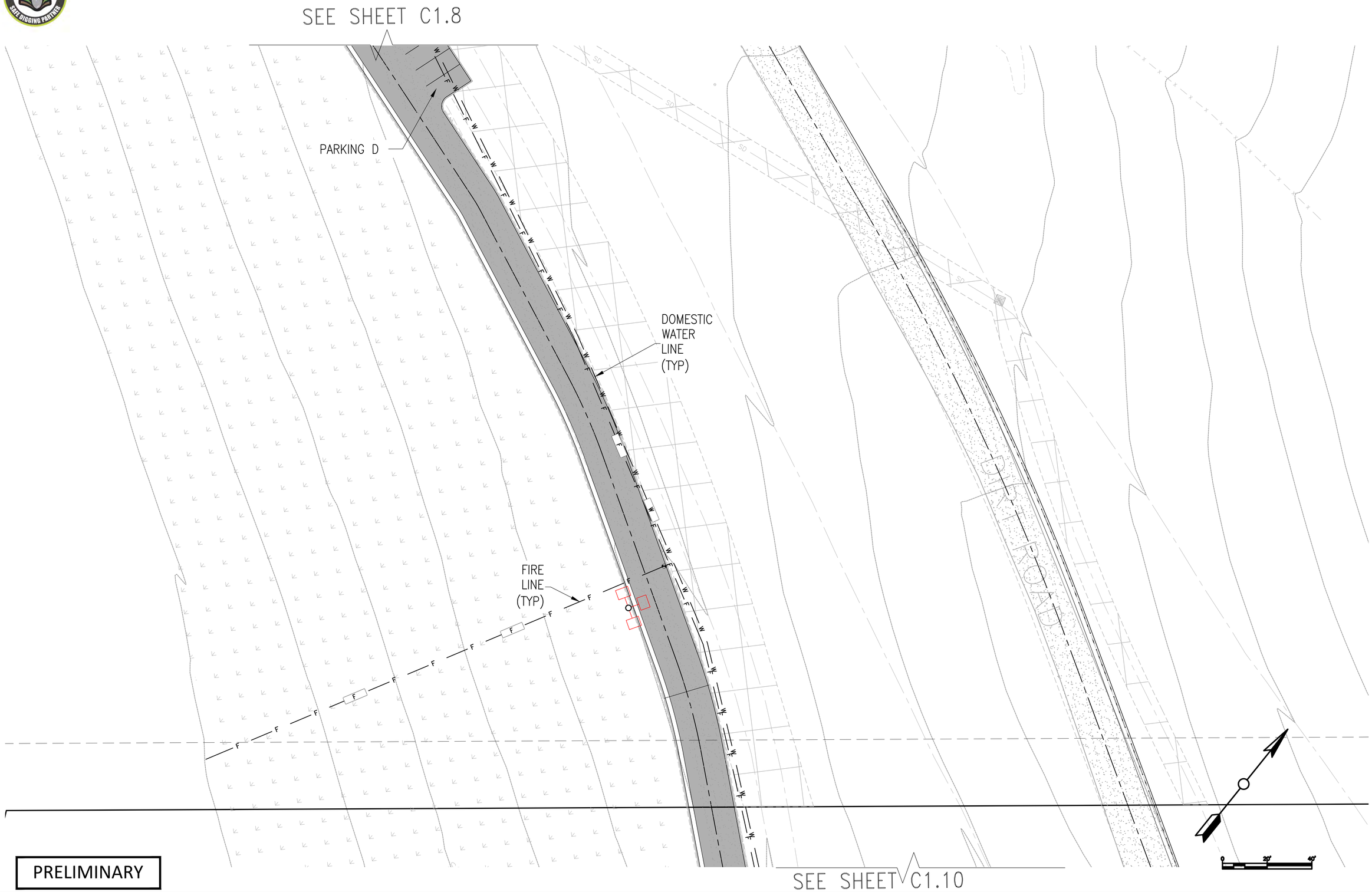

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GOKULAM LOT A

UTILITY PLAN

COUNTY OF SANTA CLARA
CALIFORNIA

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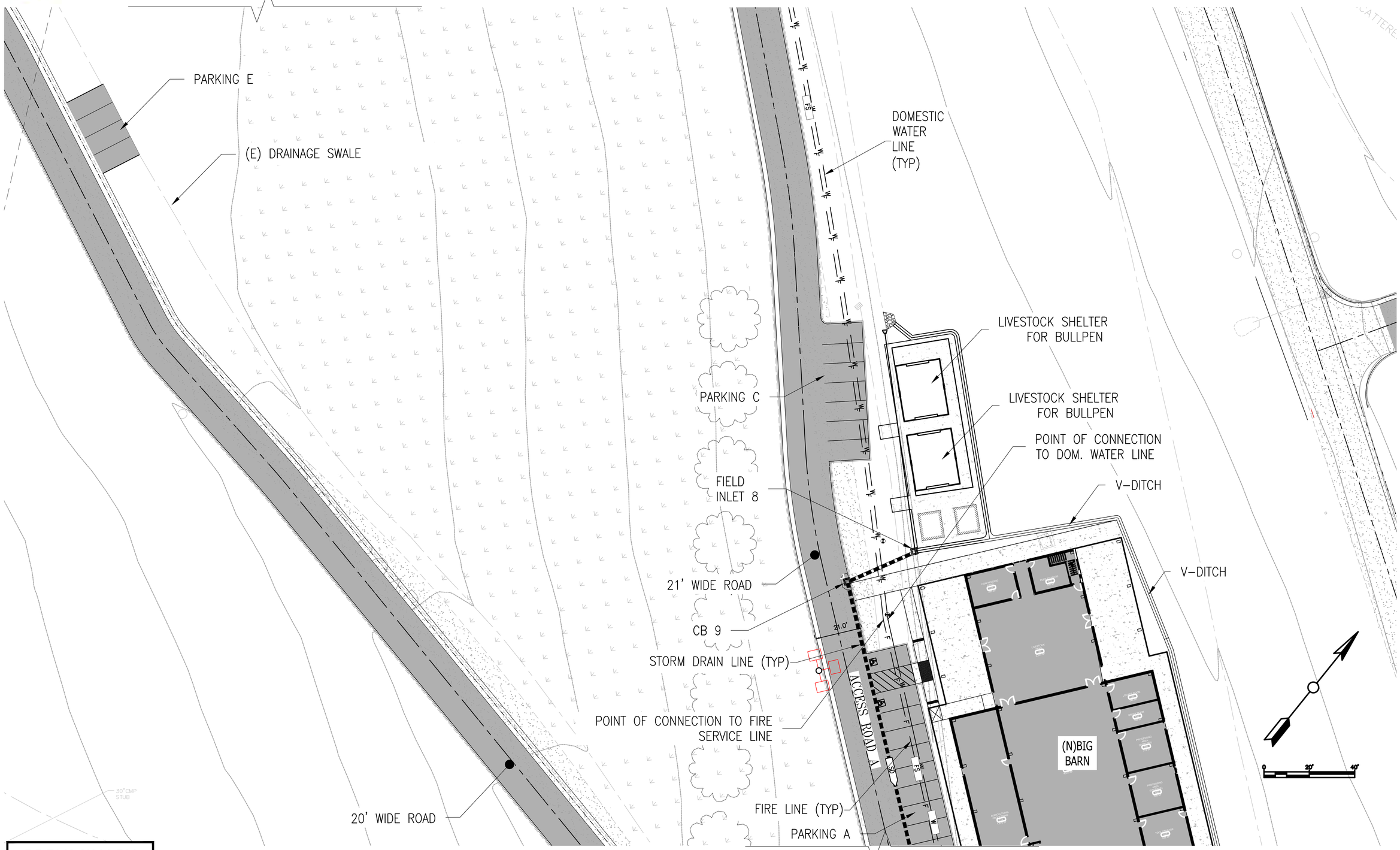
GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



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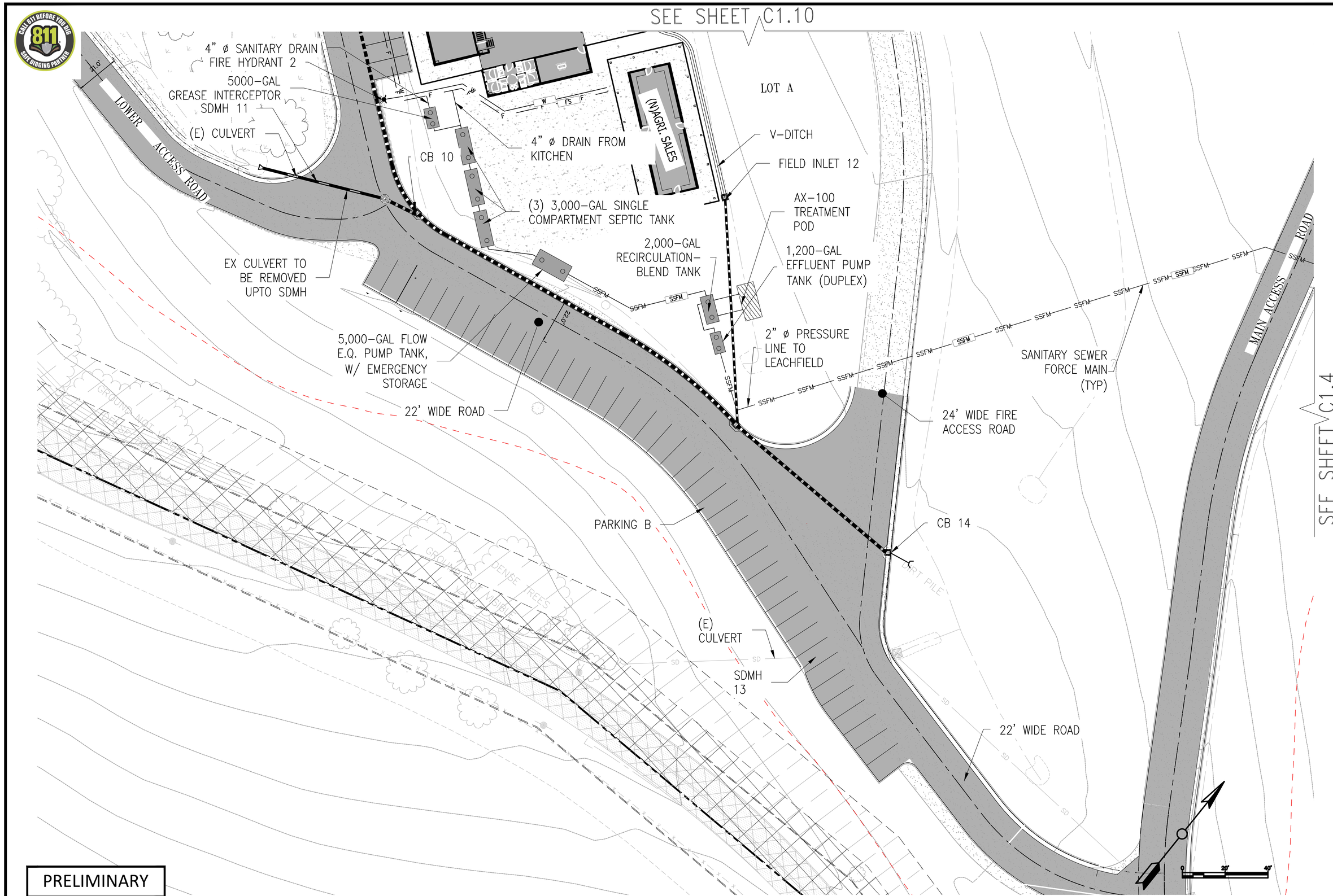
GOKULAM LOT A

UTILITY PLAN

COUNTY OF SANTA CLARA CALIFORNIA

C1.10 OF XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



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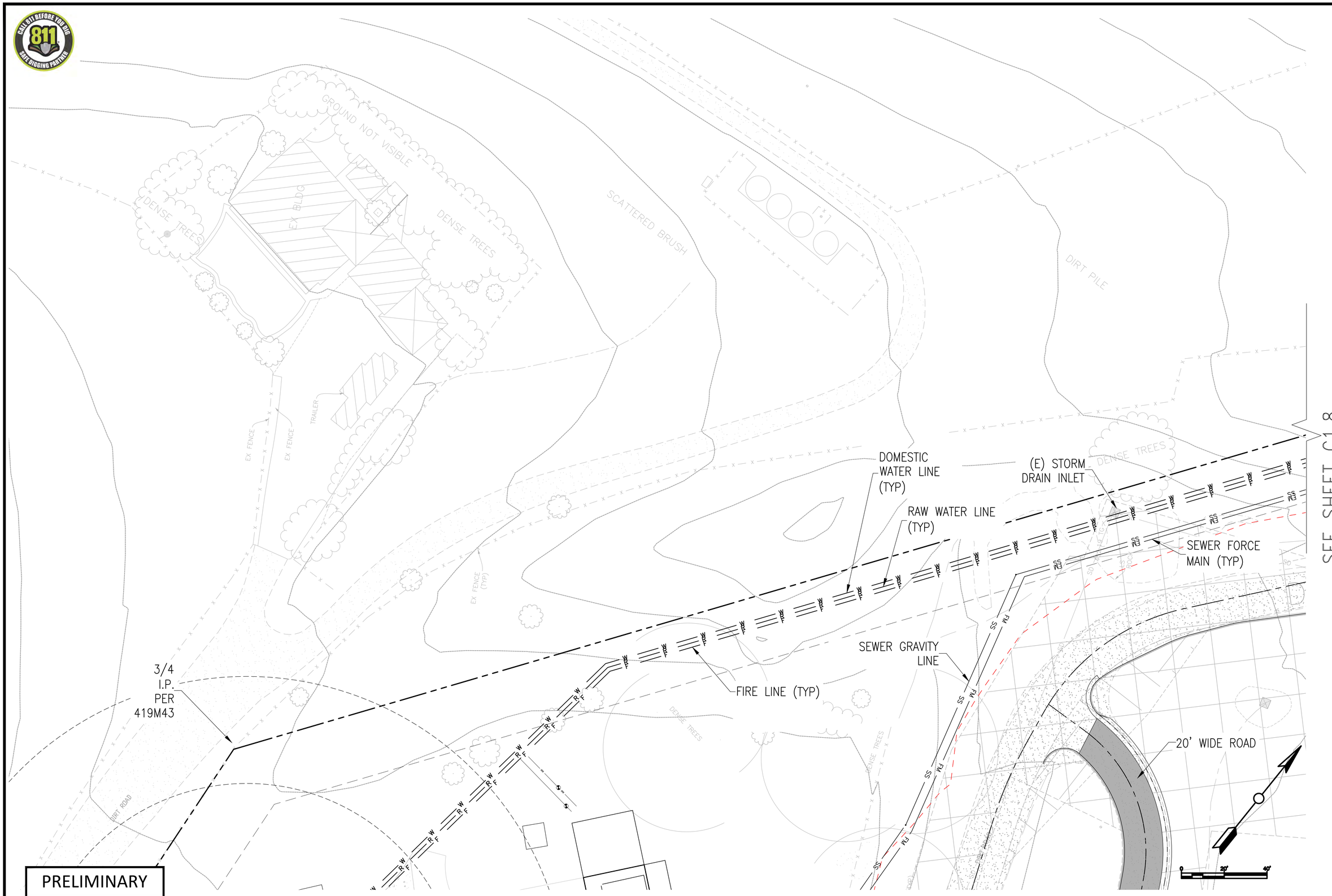
GOKULAM LOT A

UTILITY PLAN

COUNTY OF SANTA CLARA CALIFORNIA

C1.11 OF XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



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GOKULAM LOT A
COUNTY OF SANTA CLARA

UTILITY PLAN

CALIFORNIA

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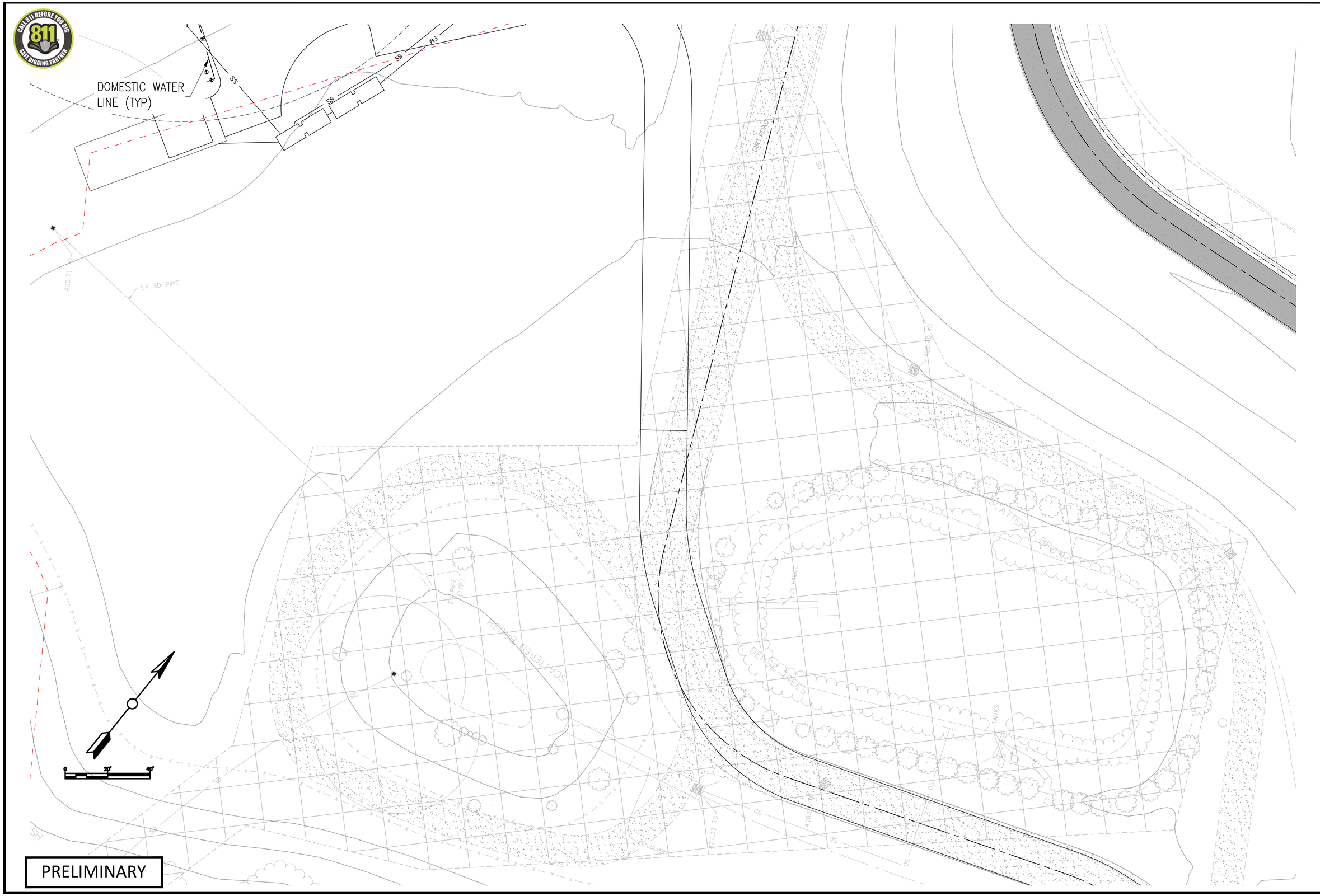
GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL


CALL 811 BEFORE YOU DIG
811
SAFE DIGGING PARTNER
DOMESTIC WATER LINE (TYP)
W
SS
SS
SS
FM
420.71
EX SD PIPE
DIRT ROAD
SD
SD
SD
420.10 TG
SCATTERED BRUSH
DENSE TREES
EX BRIDGE
EX PIPE (TYP)
SCATTERED BRUSH
TANKS
427.33 TG
426.
EX CULVERT
SD
SD
SD

CALL 811 BEFORE YOU DIG
SAFE DIGGING PARTNER

CITY OF MILPITAS

APN 029-35-007
LANDS OF BARSANA

APN 029-35-005
LANDS OF PANGAN

TOTAL ACRES: 39.16

S72°50'32"W 2010.34'

S47° 54' 59"W
190.03'

N42° 22' 54"W
356.01'

S31° 22' 05"E
250.07'

N42°33'00"W
96.12'

S0° 44' 18"E
506.92'

APN 029-34-002
S.C.C. ED LEVIN PARK

CITY OF MILPITAS

419-M-43
PARCEL 1
14.064 ACRES
APN 029-34-003
LANDS OF VIEIRA

S43°29'44"E 560.16'

LOT 'B'
GROSS 43.32 AC

419-M-43
PARCEL 2
78.93 ACRES
APN 029-34-004

S35°40'00"W 625.00'

1445.21'
S51° 38' 01"W

N43°45'35"W 1240.18'

LOT 'A'
GROSS 37.11 AC

S04°30'00"E 200.00'

S35°07'43"E 540.01'

467.74'
S24° 49' 15"E

N69°26'38"E 948.83'

CITY OF MILPITAS

N62°25'00"E
215.99'

N79°26'30"
214.88'

OLD CALAVERAS ROAD

N74°48'40"E
288.93'

N86°42'20"W
91.42'

N76°44'10"E
288.52'

S8°52'00"E
159.15'

N54°03'30"E
294.75'

N16°06'00"W
480.36'

CITY OF MILPITAS

APN 029-34-002
S.C.C. ED LEVIN PARK

APN 029-33-004
LANDS OF ENTERPRISE REIB LLC

0 100' 200'

PRELIMINARY

LEGEND

- STORM DRAIN EASEMENT
- SLOPE EASEMENT
- INGRESS & EGRESS, PRIVATE UTILITY, AND EMERGENCY VEHICLE ACCESS EASEMENT FOR LOT B OVER LOT A
- INGRESS & EGRESS, PRIVATE UTILITY, AND EMERGENCY VEHICLE ACCESS EASEMENT FOR LOT A OVER LOT B
- UNDERGROUND ELECTRIC EASEMENT
- STORM DRAIN EASEMENT

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GOKULAM LOT A

EASEMENT EXHIBIT

COUNTY OF SANTA CLARA CALIFORNIA

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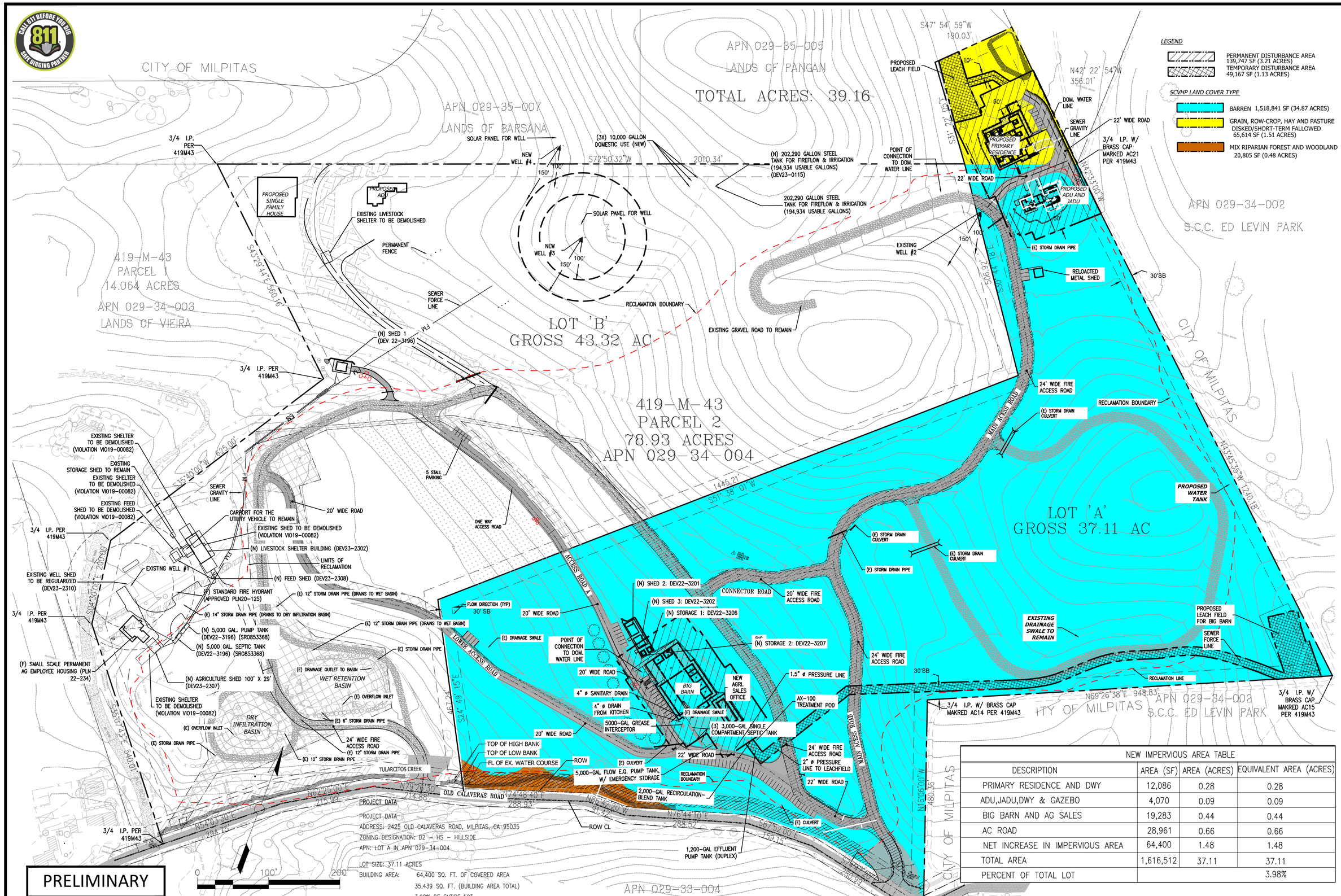
GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



LEGEND

PERMANENT DISTURBANCE AREA 139,747 SF (3.21 ACRES)
TEMPORARY DISTURBANCE AREA 49,167 SF (1.13 ACRES)

SCVHP LAND COVER TYPE

BARREN 1,518,841 SF (34.87 ACRES)
GRAIN, ROW-CROP, HAY AND PASTURE DISKED/SHORT-TERM FALLOWED 65,614 SF (1.51 ACRES)
MIX RIPARIAN FOREST AND WOODLAND 20,805 SF (0.48 ACRES)

NEW IMPERVIOUS AREA TABLE

DESCRIPTION	AREA (SF)	AREA (ACRES)	EQUIVALENT AREA (ACRES)
PRIMARY RESIDENCE AND DWY	12,086	0.28	0.28
ADU,JADU,DWY & GAZEBO	4,070	0.09	0.09
BIG BARN AND AG SALES	19,283	0.44	0.44
AC ROAD	28,961	0.66	0.66
NET INCREASE IN IMPERVIOUS AREA	64,400	1.48	1.48
TOTAL AREA	1,616,512	37.11	37.11
PERCENT OF TOTAL LOT			3.98%

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GOKULAM LOT A
COUNTY OF SANTA CLARA

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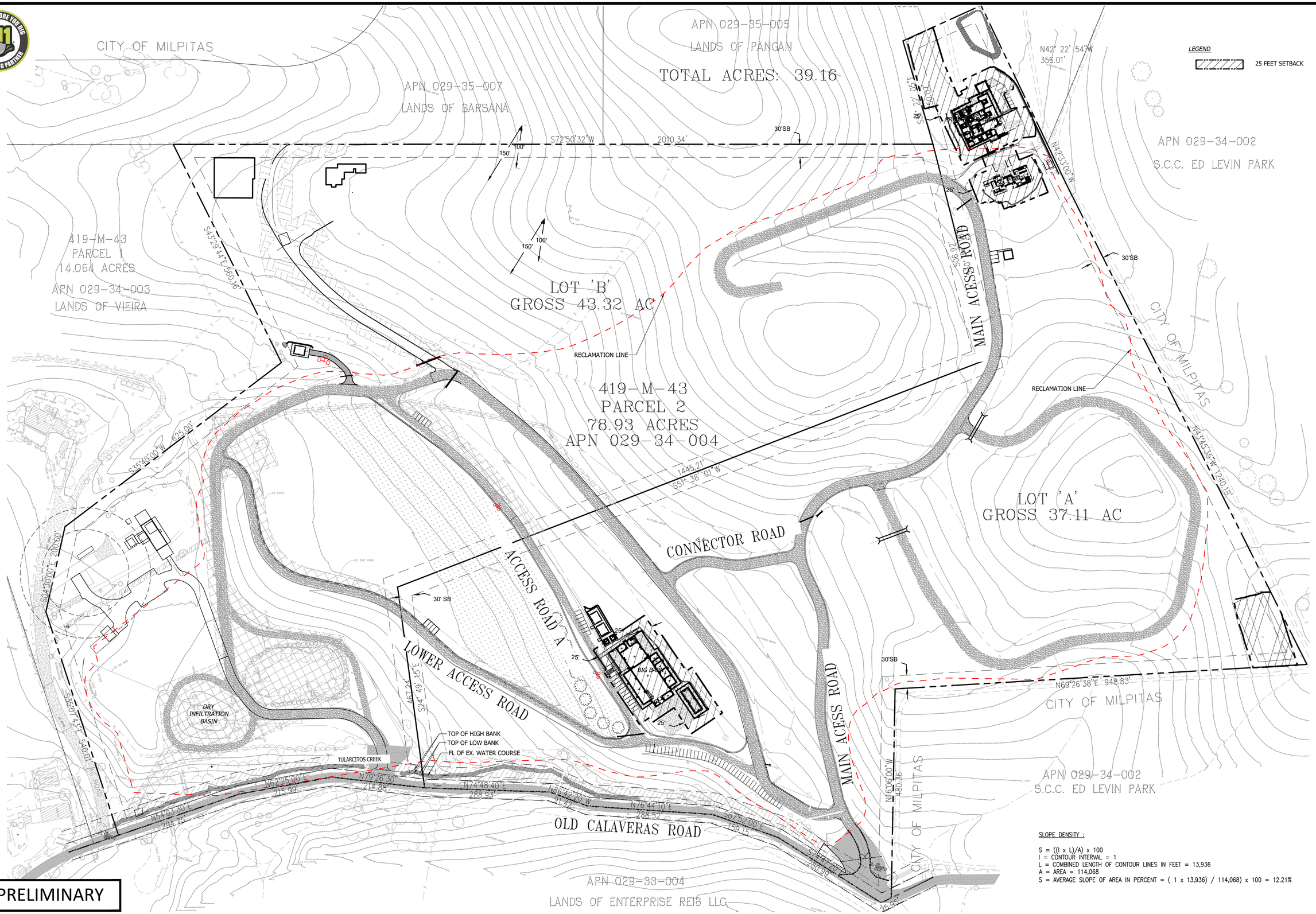
GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



PRELIMINARY

SLOPE DENSITY :

S = ((I x L)/A) x 100
I = CONTOUR INTERVAL = 1
L = COMBINED LENGTH OF CONTOUR LINES IN FEET = 13,936
A = AREA = 114,068
S = AVERAGE SLOPE OF AREA IN PERCENT = (1 x 13,936) / 114,068) x 100 = 12.21%

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STATE OF CALIFORNIA

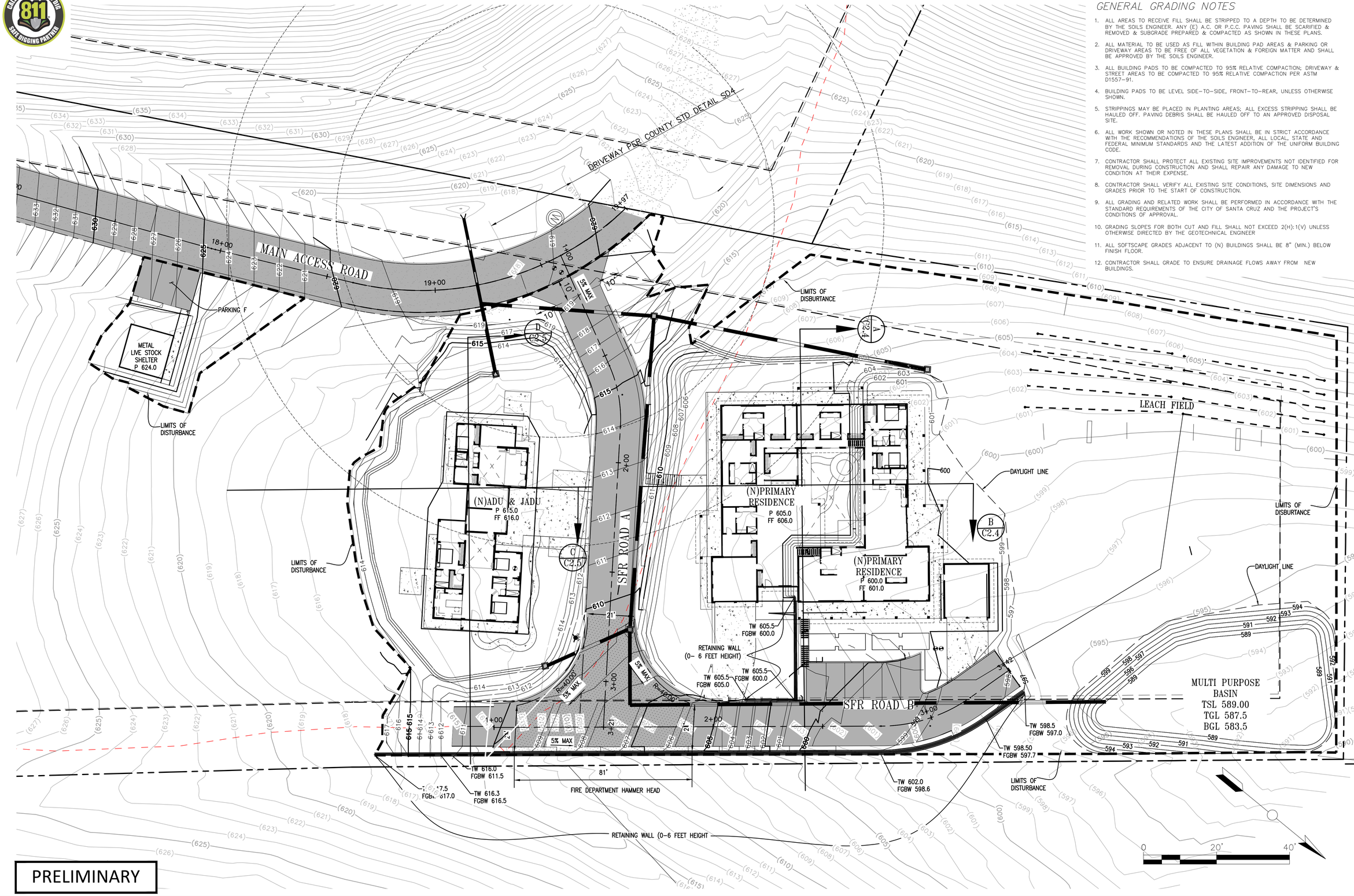
GOKULAM LOT A

SLOPE DENSITY EXHIBIT

COUNTY OF SANTA CLARA CALIFORNIA

C1.16 OF XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



PRELIMINARY

GENERAL GRADING NOTES

1. ALL AREAS TO RECEIVE FILL SHALL BE STRIPPED TO A DEPTH TO BE DETERMINED BY THE SOILS ENGINEER. ANY (E) A.C. OR P.C.C. PAVING SHALL BE SCARIFIED & REMOVED & SUBGRADE PREPARED & COMPACTED AS SHOWN IN THESE PLANS.
2. 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 SOILS ENGINEER.
3. ALL BUILDING PADS TO BE COMPACTED TO 95% RELATIVE COMPACTION; DRIVEWAY & STREET AREAS TO BE COMPACTED TO 95% RELATIVE COMPACTION PER ASTM D1557-91.
4. BUILDING PADS TO BE LEVEL SIDE-TO-SIDE, FRONT-TO-REAR, UNLESS OTHERWISE SHOWN.
5. 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.
6. ALL WORK SHOWN OR NOTED IN THESE PLANS SHALL BE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE SOILS ENGINEER, ALL LOCAL, STATE AND FEDERAL MINIMUM STANDARDS AND THE LATEST ADDITION OF THE UNIFORM BUILDING CODE.
7. CONTRACTOR SHALL PROTECT ALL EXISTING SITE IMPROVEMENTS NOT IDENTIFIED FOR REMOVAL DURING CONSTRUCTION AND SHALL REPAIR ANY DAMAGE TO NEW CONDITION AT THEIR EXPENSE.
8. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS, SITE DIMENSIONS AND GRADES PRIOR TO THE START OF CONSTRUCTION.
9. ALL GRADING AND RELATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD REQUIREMENTS OF THE CITY OF SANTA CRUZ AND THE PROJECT'S CONDITIONS OF APPROVAL.
10. GRADING SLOPES FOR BOTH CUT AND FILL SHALL NOT EXCEED 2(H):1(V) UNLESS OTHERWISE DIRECTED BY THE GEOTECHNICAL ENGINEER
11. ALL SOFTSCAPE GRADES ADJACENT TO (N) BUILDINGS SHALL BE 8" (MIN.) BELOW FINISH FLOOR.
12. CONTRACTOR SHALL GRADE TO ENSURE DRAINAGE FLOWS AWAY FROM NEW BUILDINGS.

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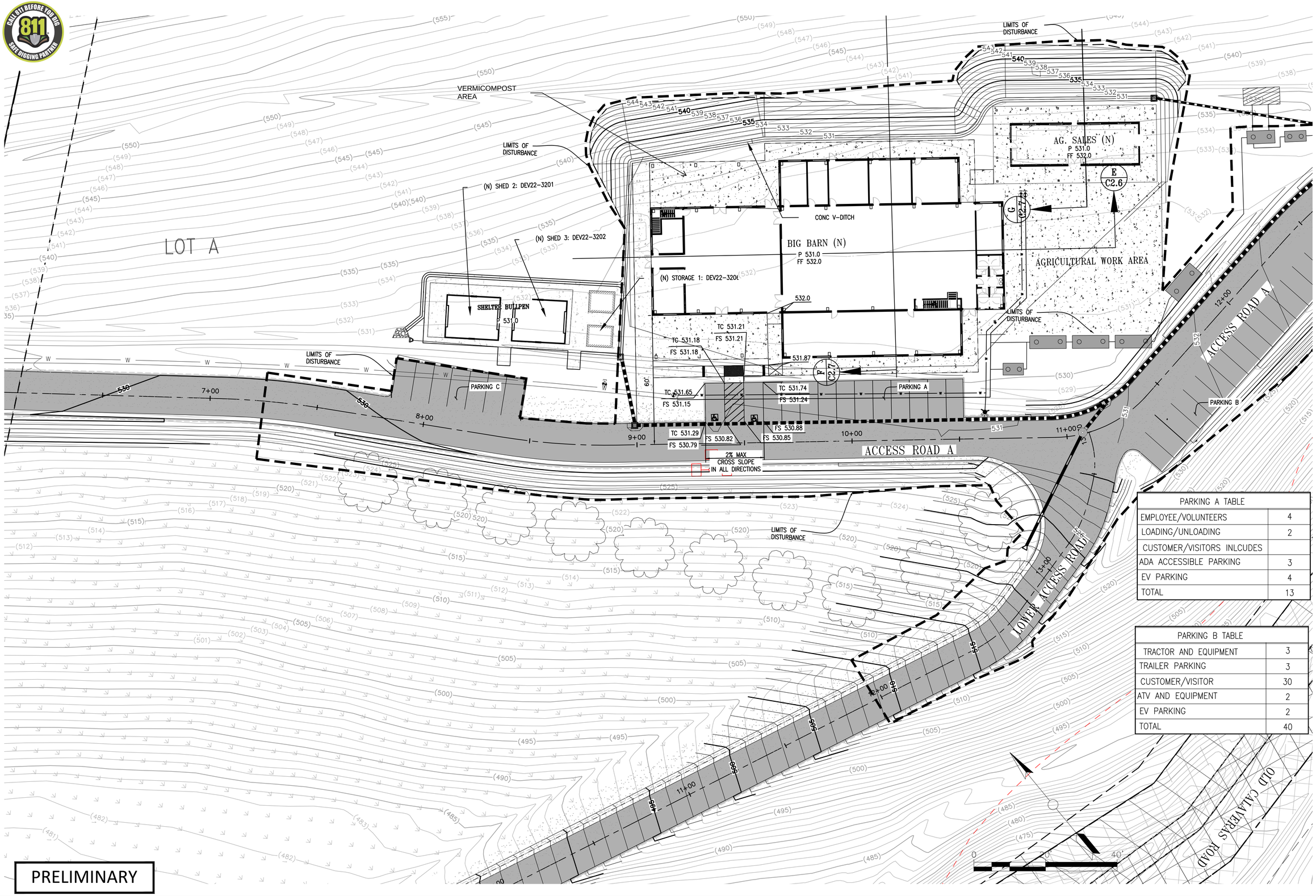
REGISTERED PROFESSIONAL ENGINEER
SHARA SAHAGUNDA BAHUGULA
No. 82491
CIVIL
STATE OF CALIFORNIA

GOKULAM LOT A
SINGLEFAMILY RESIDENCE, ADU & J ADU GRADING PLAN
COUNTY OF SANTA CLARA
CALIFORNIA

C2.1
OF
XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



PARKING A TABLE	
EMPLOYEE/VOLUNTEERS	4
LOADING/UNLOADING	2
CUSTOMER/VISITORS INLCUDES	
ADA ACCESSIBLE PARKING	3
EV PARKING	4
TOTAL	13

PARKING B TABLE	
TRACTOR AND EQUIPMENT	3
TRAILER PARKING	3
CUSTOMER/VISITOR	30
ATV AND EQUIPMENT	2
EV PARKING	2
TOTAL	40

PRELIMINARY

SEE SHEET C2.3

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SHARATCHANDRA BANDUGULA
No. 82491
CIVIL
STATE OF CALIFORNIA

GOKULAM LOT A
BARN & SALES OFFICE
GRADING PLAN
COUNTY OF SANTA CLARA
CALIFORNIA

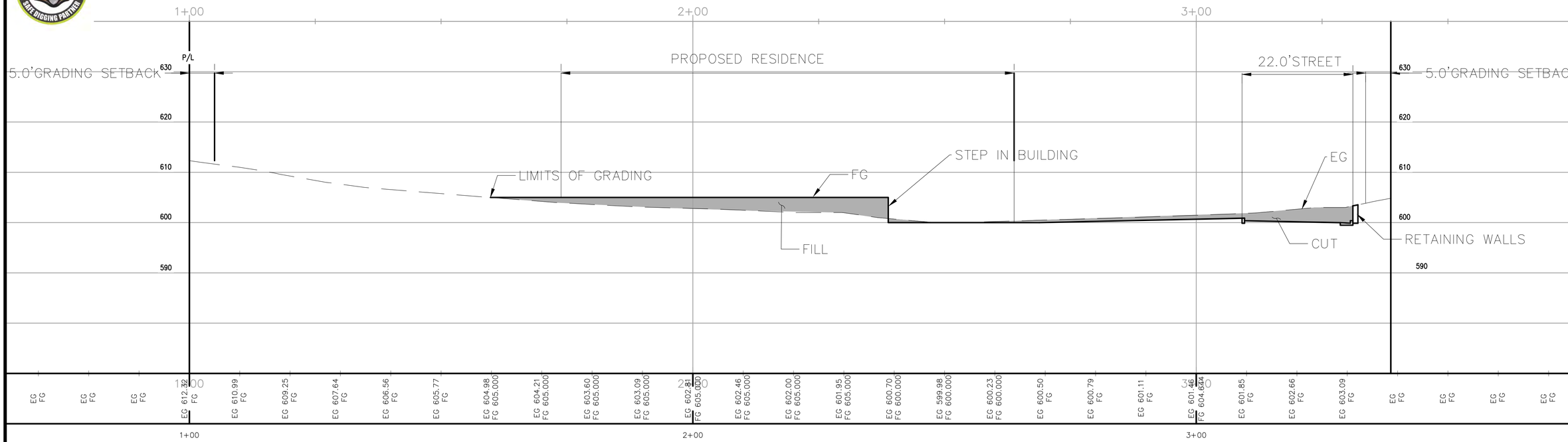
C2.2
OF
XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL

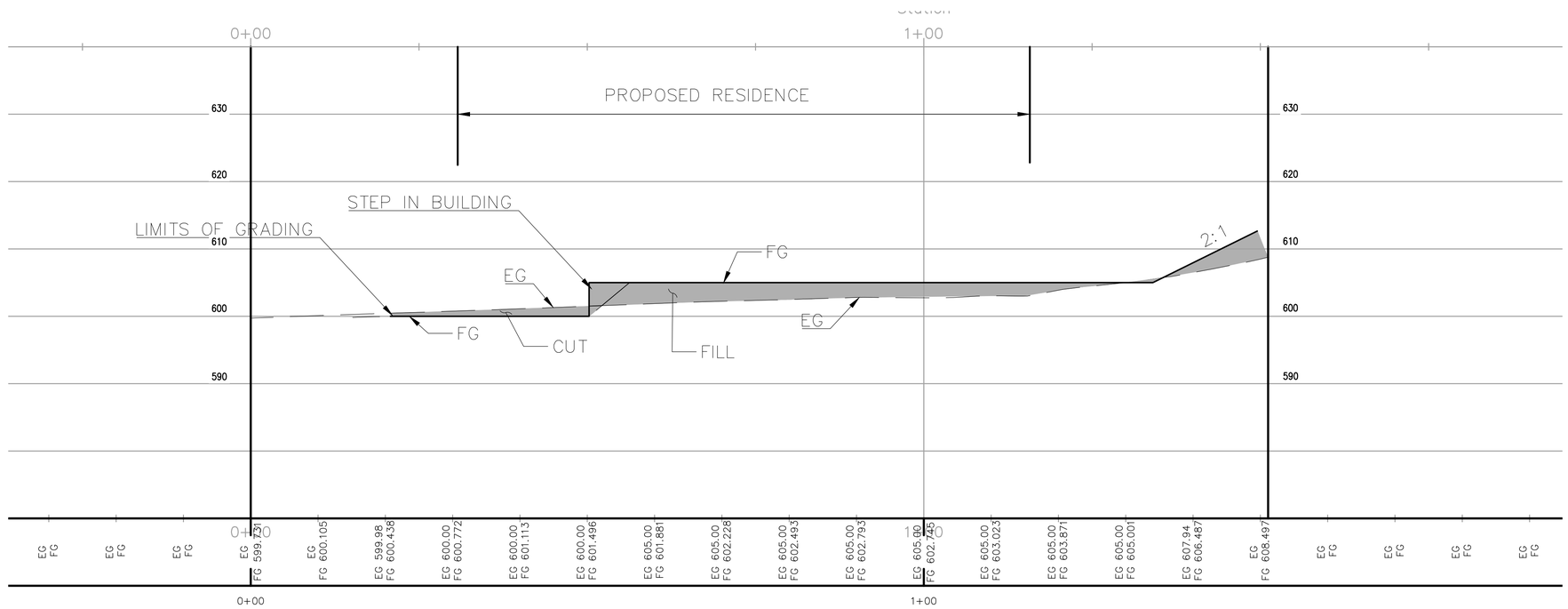
PRELIMINARY

SEE SHEET C2.2

C2.3 OF XX	GOKULAM LOT A BARN & SALES OFFICE GRADING PLAN COUNTY OF SANTA CLARA CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER SAKARA CHANDRA BANDUDUTA No. 82491 CIVIL STATE OF CALIFORNIA	5/10/2024 DATE KS, SB DRAWN BY SB CHECKED BY	NAVIS design | build | manage info@navisdbm.com	BY DATE REVISIONS



SECTION A-A



SECTION B-B

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CIVIL
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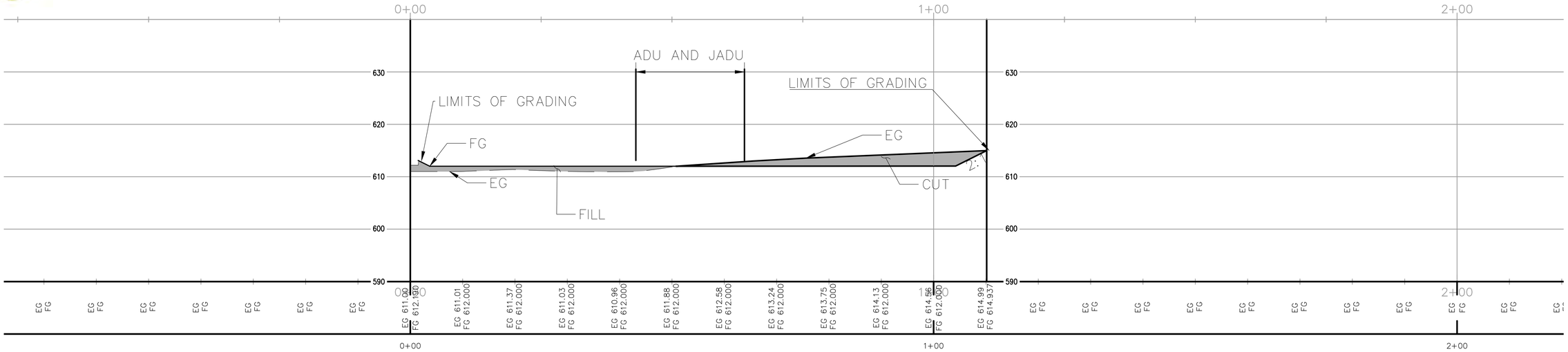
GOKULAM LOT A

GRADING SECTIONS

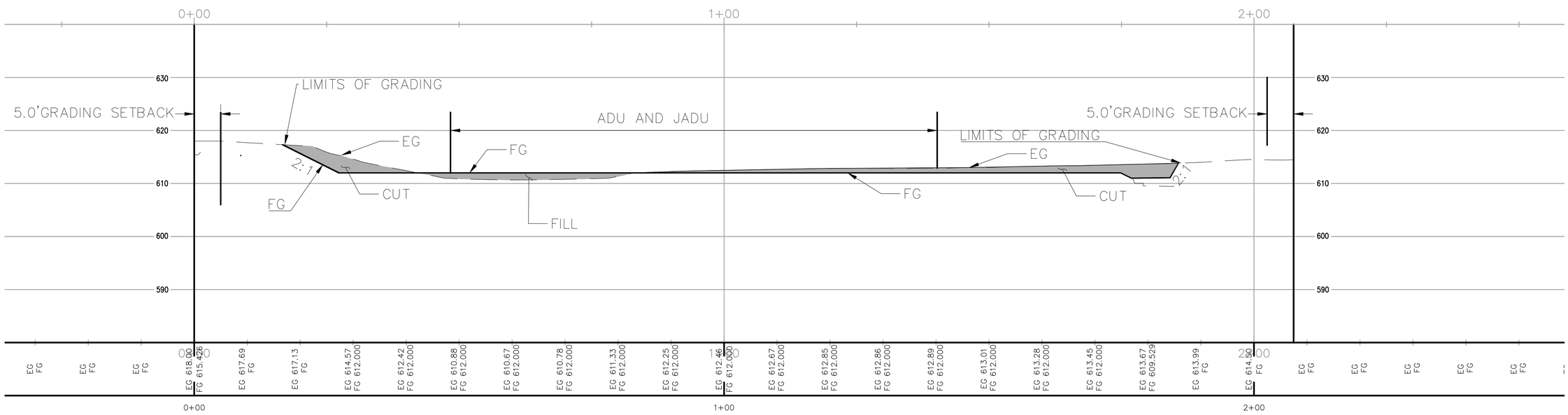
COUNTY OF SANTA CLARA CALIFORNIA

C2.4 OF XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



SECTION C-C



SECTION D-D

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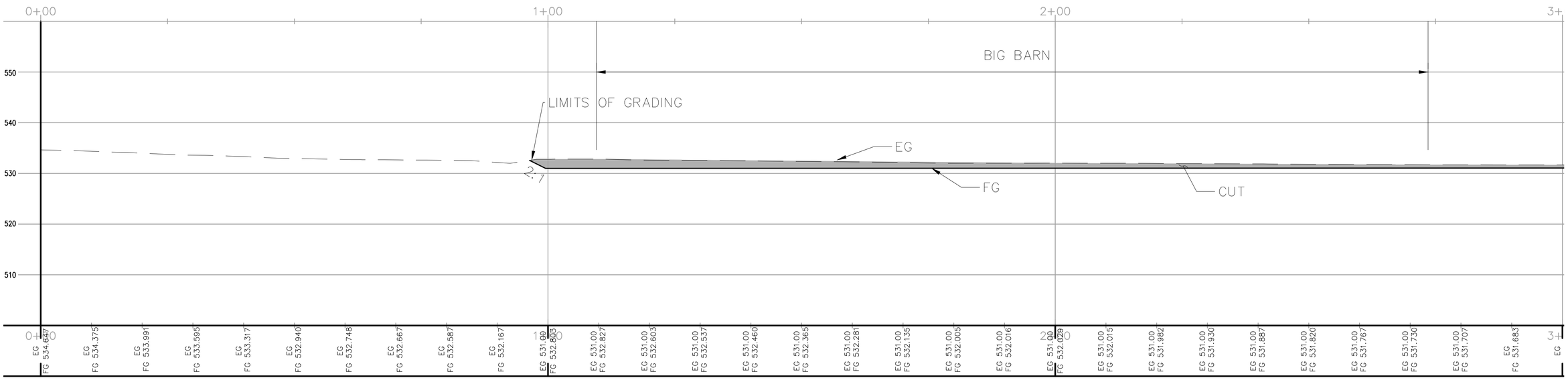
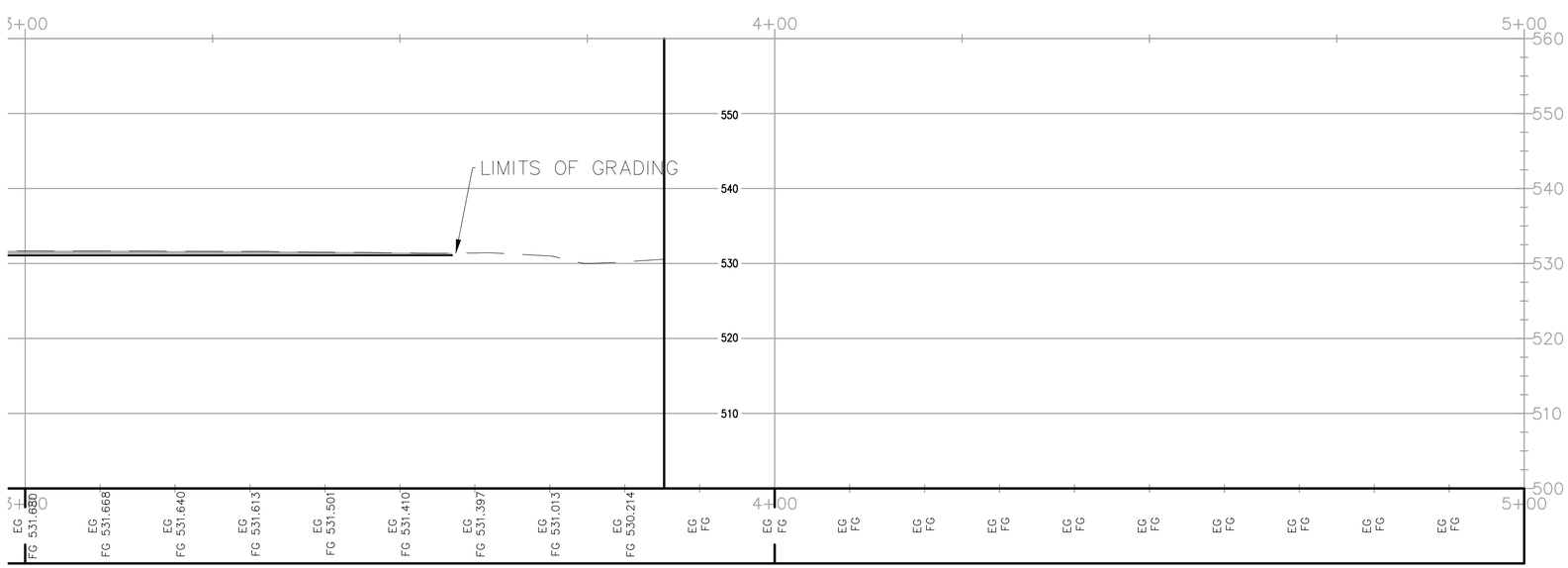
CIVIL
STATE OF CALIFORNIA

GOKULAM LOT A
GRADING SECTIONS
COUNTY OF SANTA CLARA
CALIFORNIA

C2.5
OF
XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL





SECTION E-E

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No. 82491
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GOKULAM LOT A
GRADING SECTIONS
COUNTY OF SANTA CLARA
CALIFORNIA

C2.6
OF
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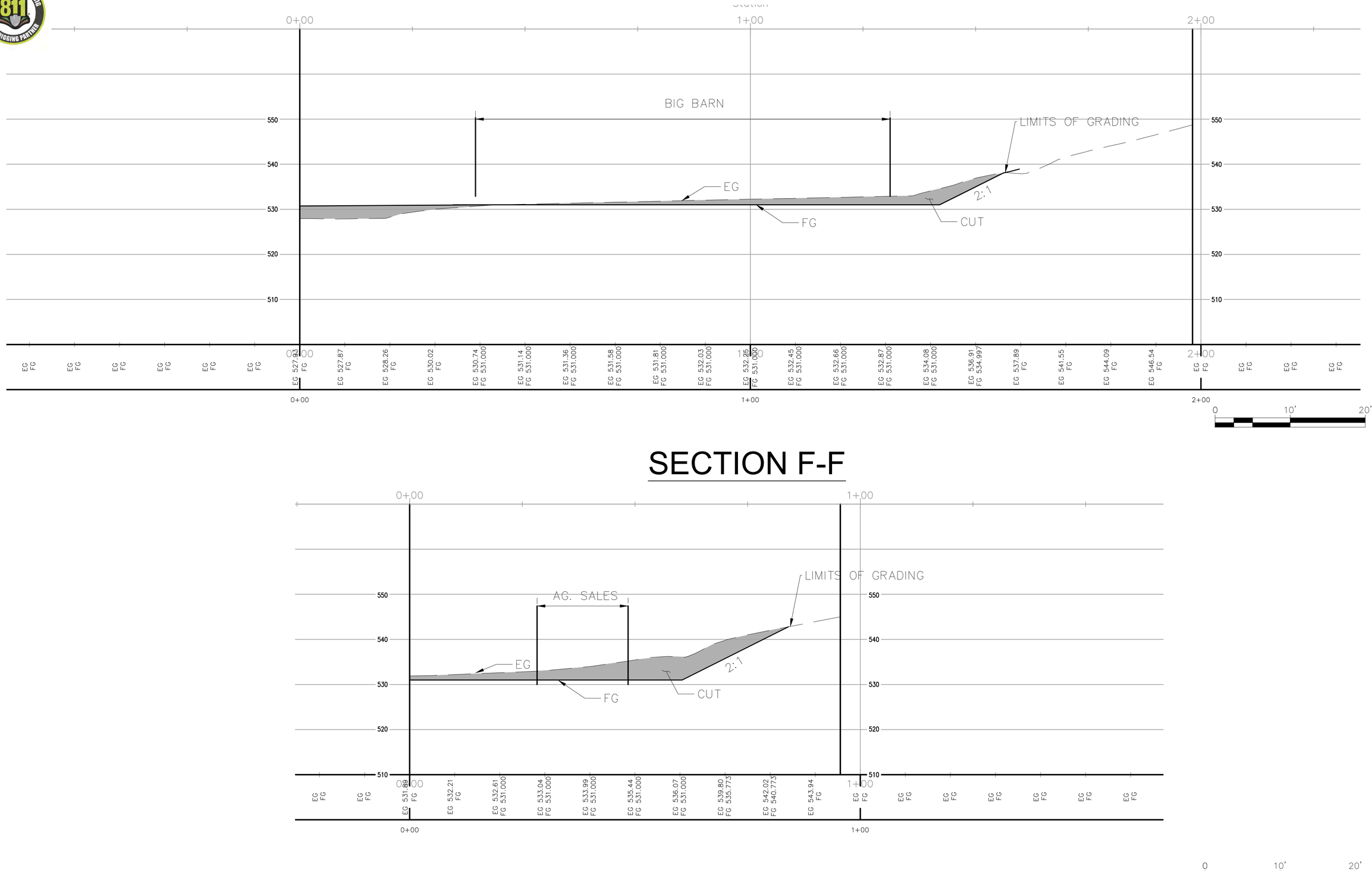
GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



SECTION F-F

SECTION G-G

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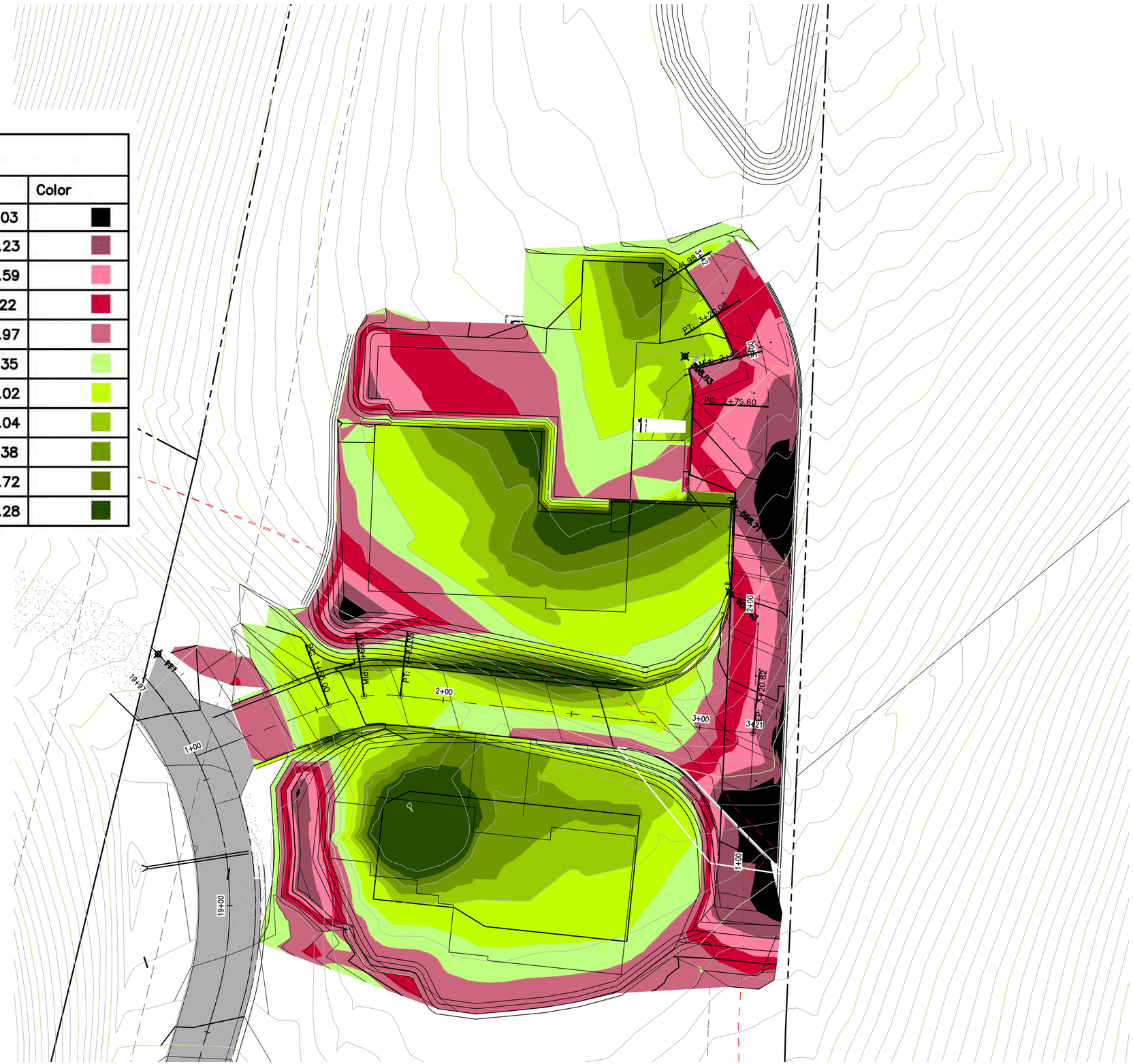
GOKULAM LOT A
GRADING SECTIONS
COUNTY OF SANTA CLARA CALIFORNIA

C2.7 OF XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL

Elevations Table

Number	Minimum Elevation	Maximum Elevation	Area	Color
1	−6.29	−4.00	1388.03	
2	−4.00	−3.00	2483.23	
3	−3.00	−2.00	3278.59	
4	−2.00	−1.00	4115.22	
5	−1.00	0.00	8082.97	
6	0.00	1.00	8251.35	
7	1.00	2.00	9953.02	
8	2.00	2.50	5732.04	
9	2.50	3.00	4251.38	
10	3.00	3.50	2349.72	
11	3.50	5.03	2800.28	



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GOKULAM LOT A

CUT FILL EXHIBIT

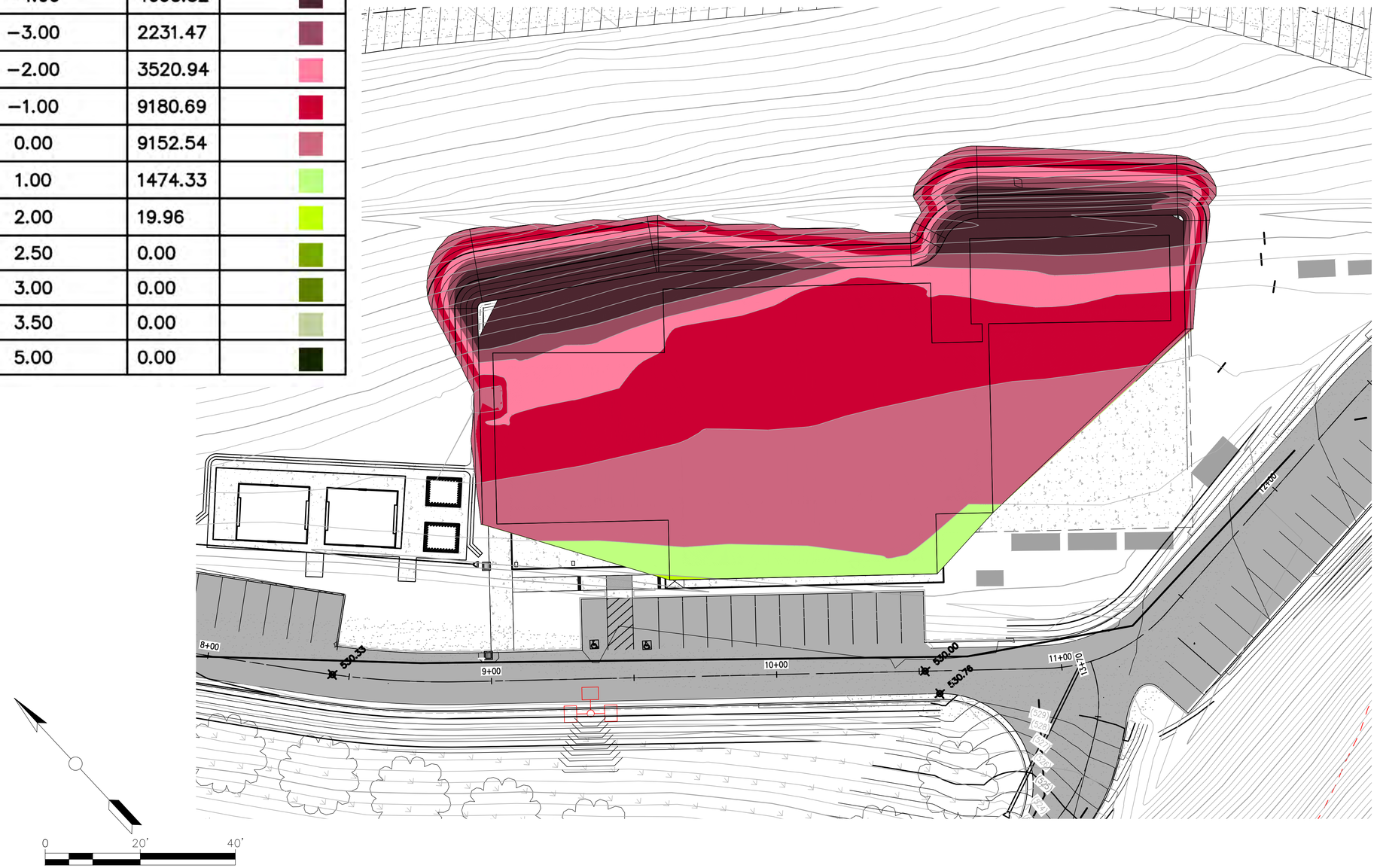
COUNTY OF SANTA CLARA
CALIFORNIA

C2.8 OF XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL

Elevations Table

Number	Minimum Elevation	Maximum Elevation	Area	Color
1	−7.61	−4.00	4095.52	
2	−4.00	−3.00	2231.47	
3	−3.00	−2.00	3520.94	
4	−2.00	−1.00	9180.69	
5	−1.00	0.00	9152.54	
6	0.00	1.00	1474.33	
7	1.00	2.00	19.96	
8	2.00	2.50	0.00	
9	2.50	3.00	0.00	
10	3.00	3.50	0.00	
11	3.50	5.00	0.00	



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SUBRAMANYAM BANDUGULA
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STATE OF CALIFORNIA

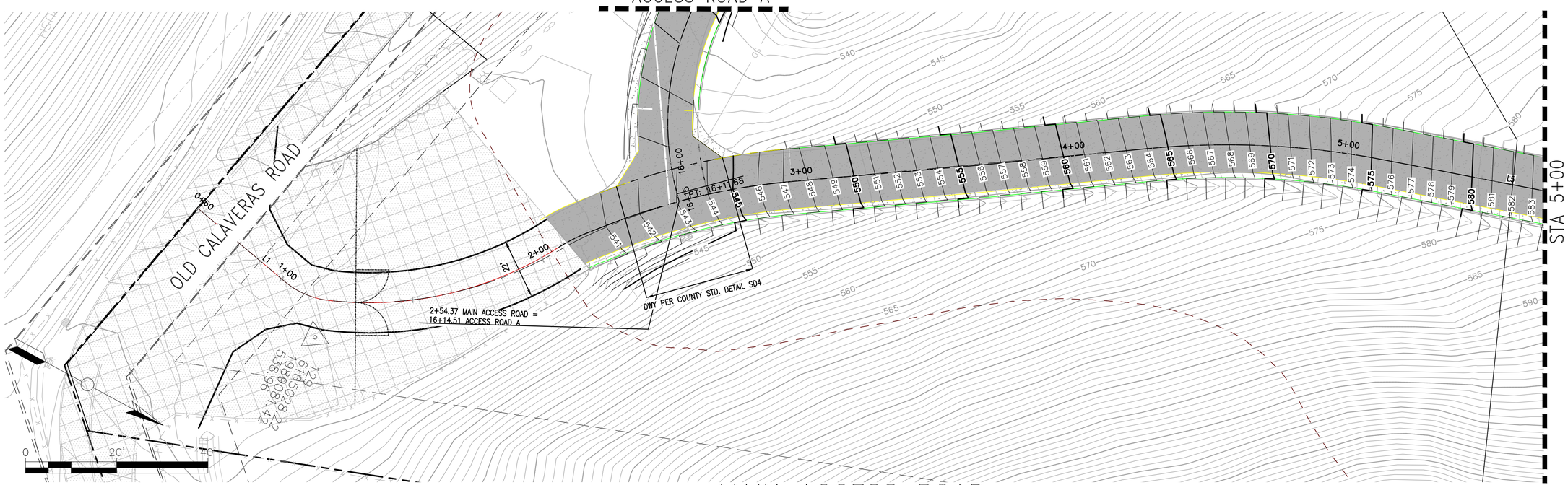
GOKULAM LOT A

CUT FILL EXHIBIT

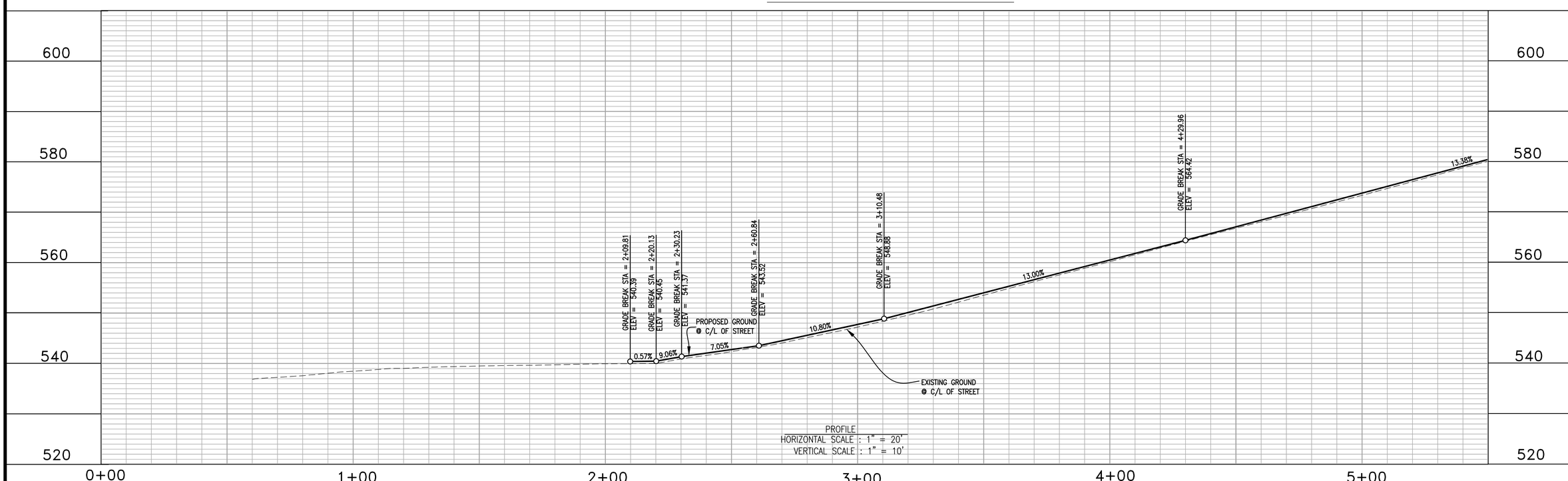
COUNTY OF SANTA CLARA CALIFORNIA

C2.9 OF XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



MAIN ACCESS ROAD



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CIVIL
STATE OF CALIFORNIA

GOKULAM LOT A
MAIN ACCESS ROAD
STA 0+00 TO STA 5+00
COUNTY OF SANTA CLARA
CALIFORNIA

C3.1
OF
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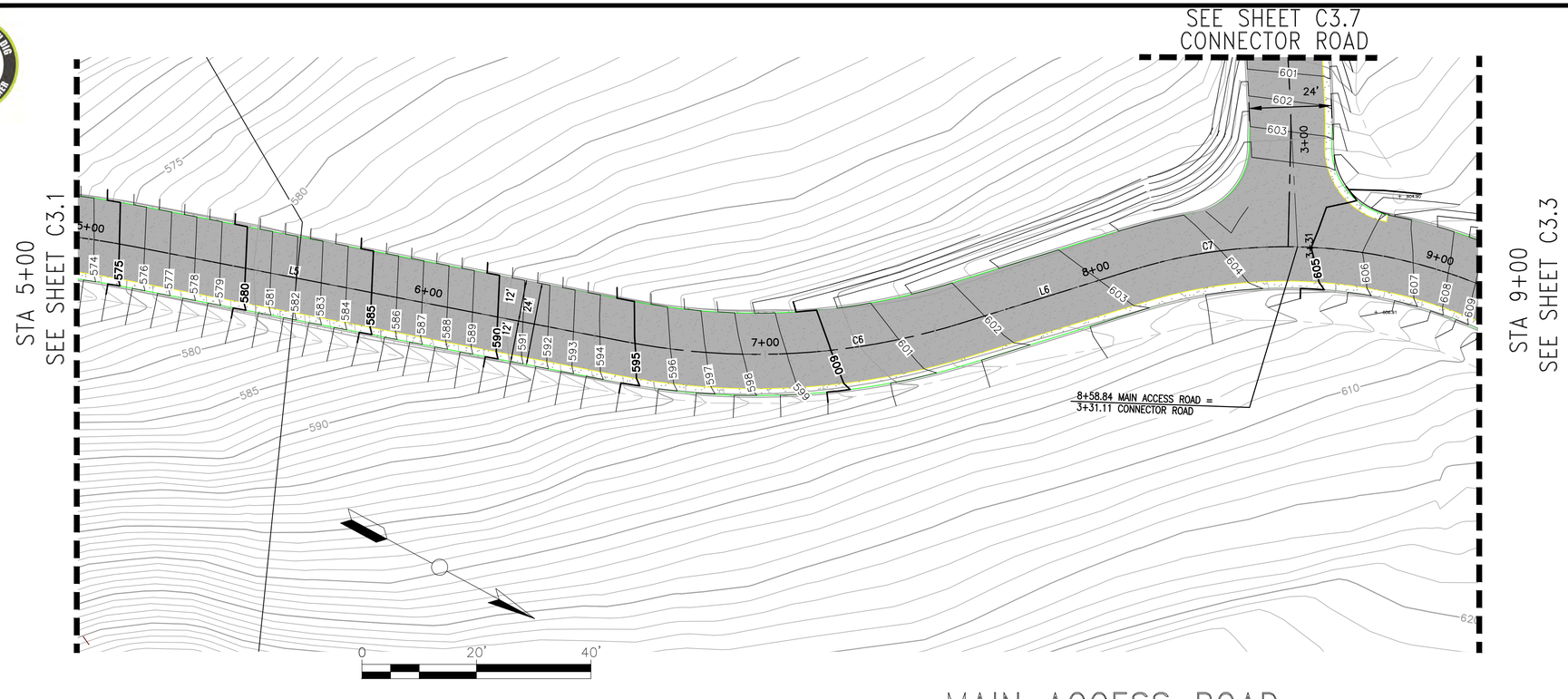
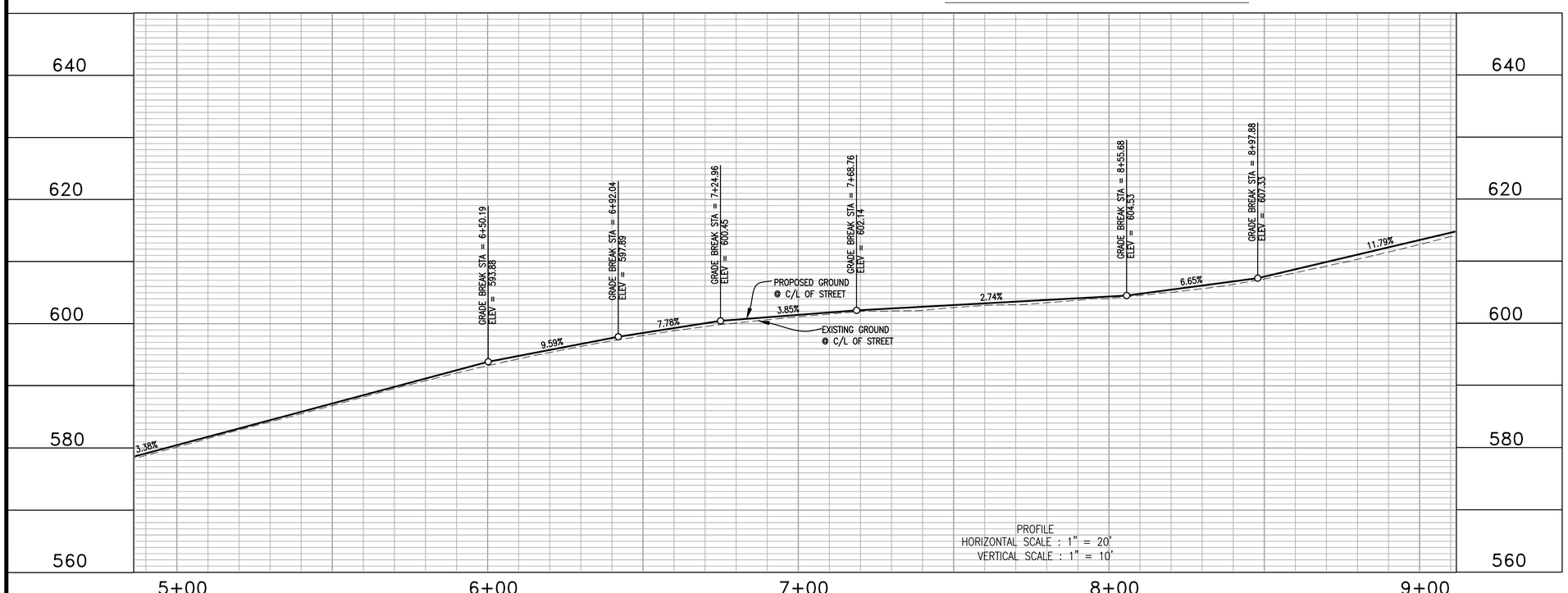
GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



MAIN ACCESS ROAD



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SHARATCHANDRA BANDUGULA
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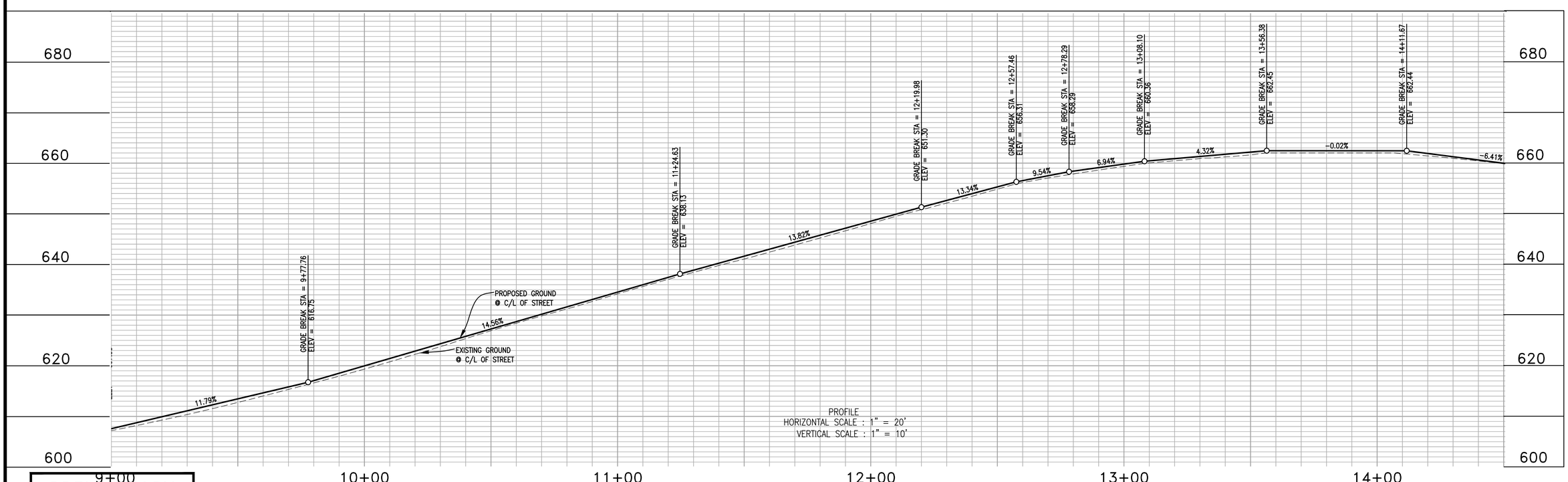
CIVIL
STATE OF CALIFORNIA

GOKULAM LOT A
MAIN ACCESS ROAD
STA 5+00 TO STA 9+00
COUNTY OF SANTA CLARA
CALIFORNIA

C3.2
OF
XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL

MAIN ACCESS ROAD



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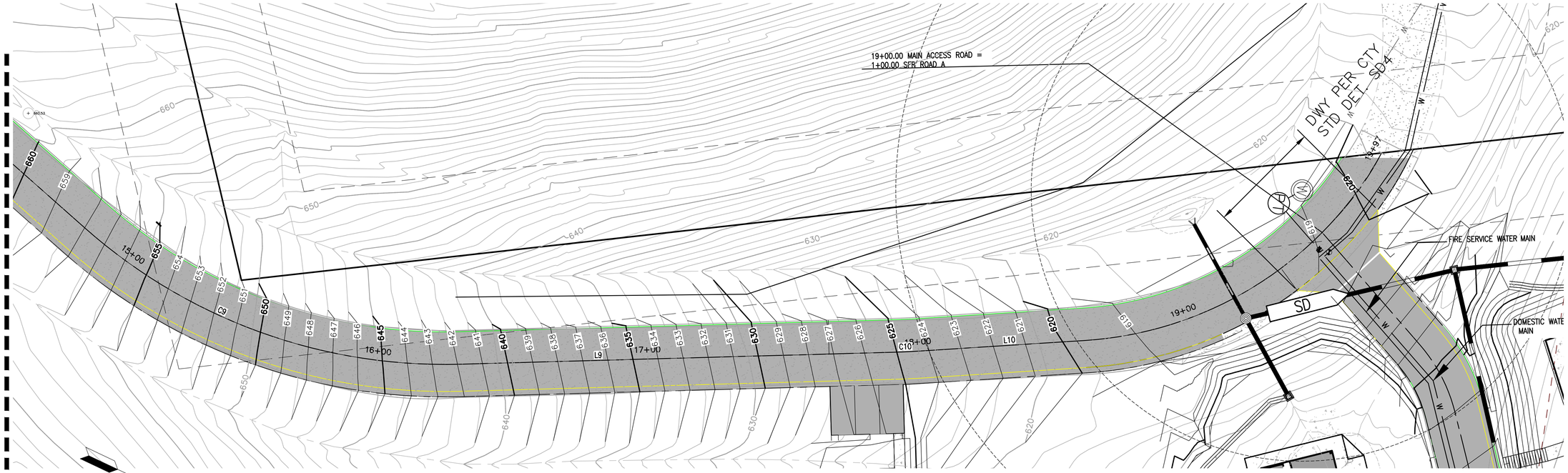
STATE OF CALIFORNIA

GOKULAM LOT A
MAIN ACCESS ROAD
STA 9+00 TO STA 14+50
COUNTY OF SANTA CLARA
CALIFORNIA

C3.3
OF XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



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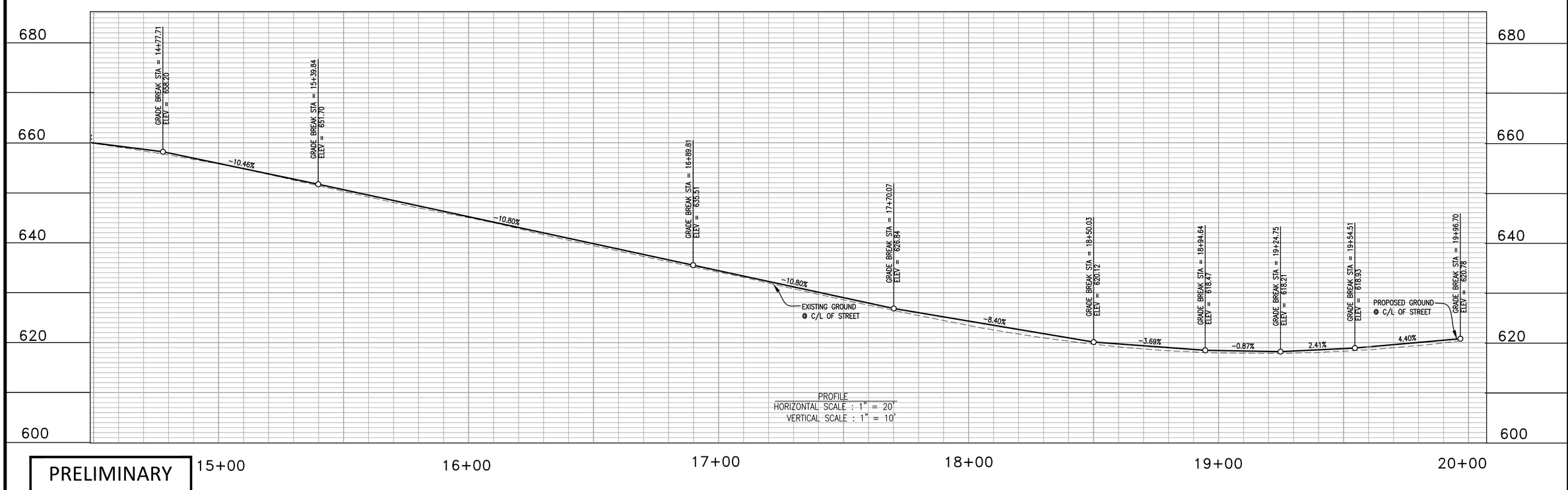

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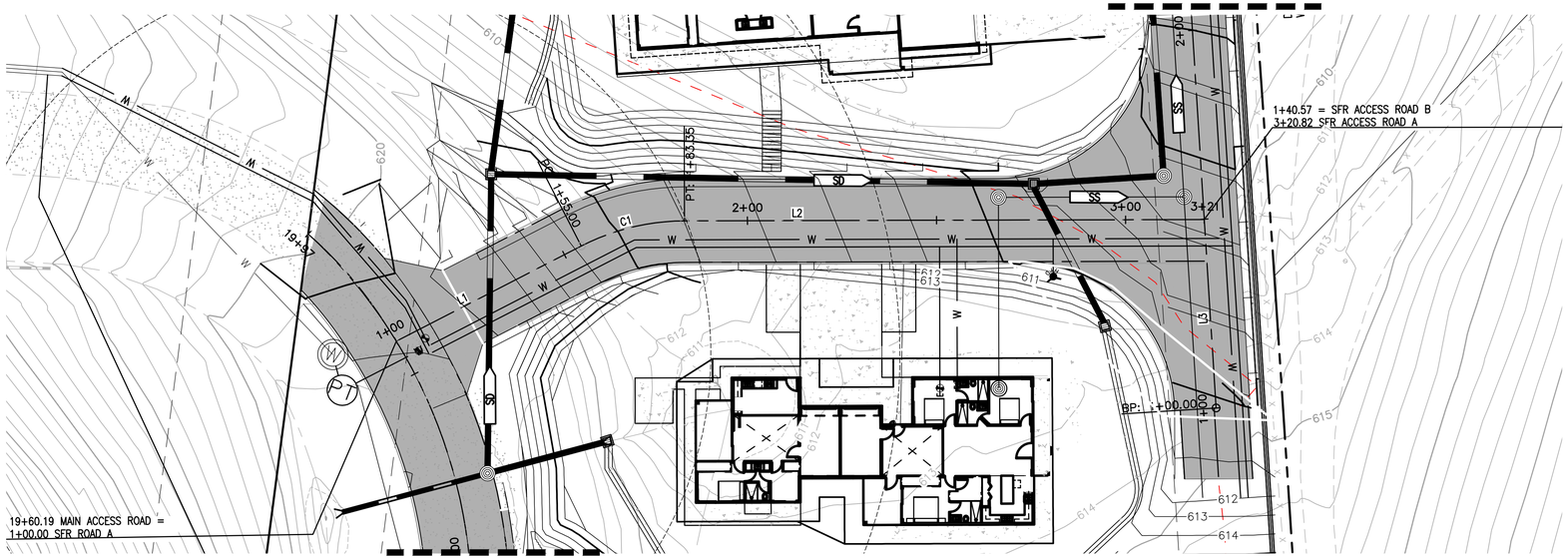
STATE OF CALIFORNIA

GOKULAM LOT A
MAIN ACCESS ROAD
STA 14+50 TO STA 20+12
COUNTY OF SANTA CLARA
CALIFORNIA

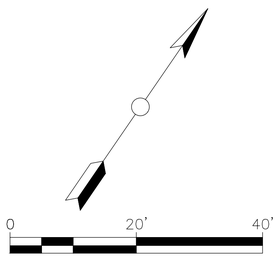
C3.4
OF
XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL

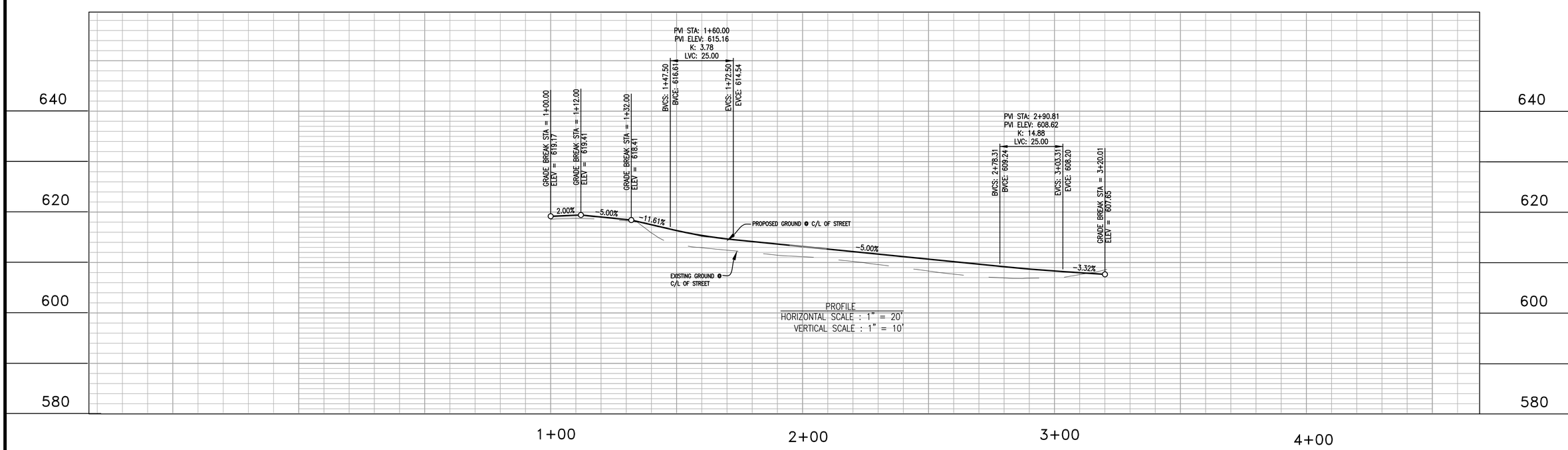
SFR ACCESS ROAD B
SEE SHEET C3.6



MAIN ACCESS ROAD
SEE SHEET C3.4



SINGLE FAMILY RESIDENCE ACCESS ROAD A



PROFILE
HORIZONTAL SCALE : 1" = 20'
VERTICAL SCALE : 1" = 10'

PRELIMINARY

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STATE OF CALIFORNIA

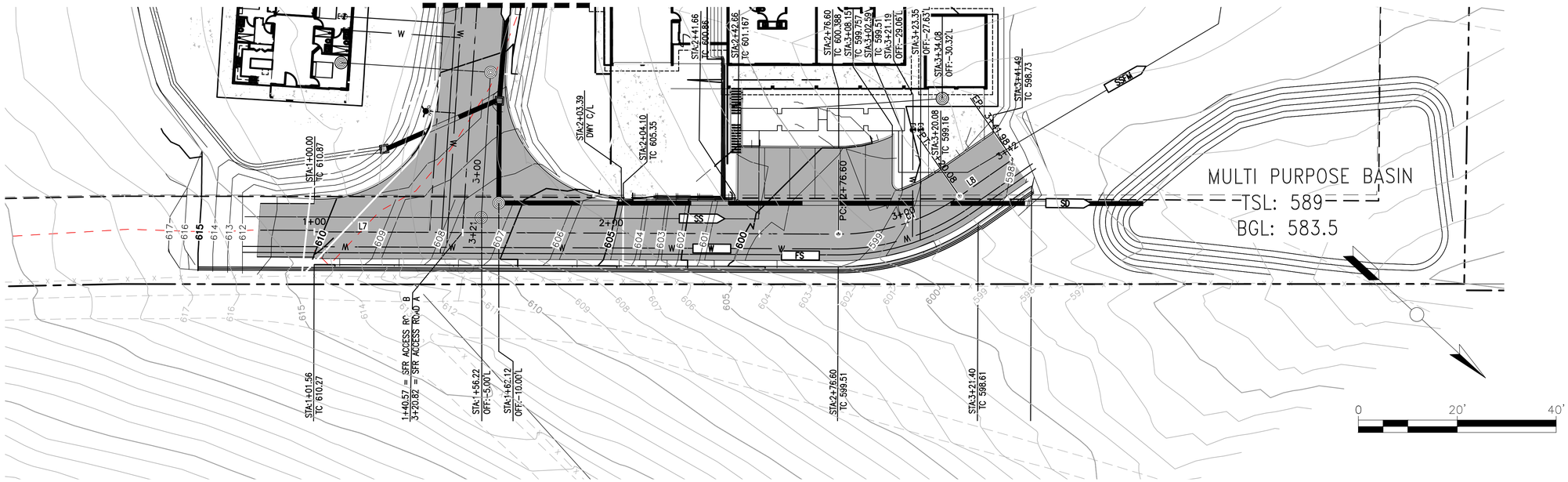
GOKULAM LOT A
SINGLE FAMILY RESIDENCE
ACCESS ROAD A
COUNTY OF SANTA CLARA
CALIFORNIA

C3.5
OF
XX

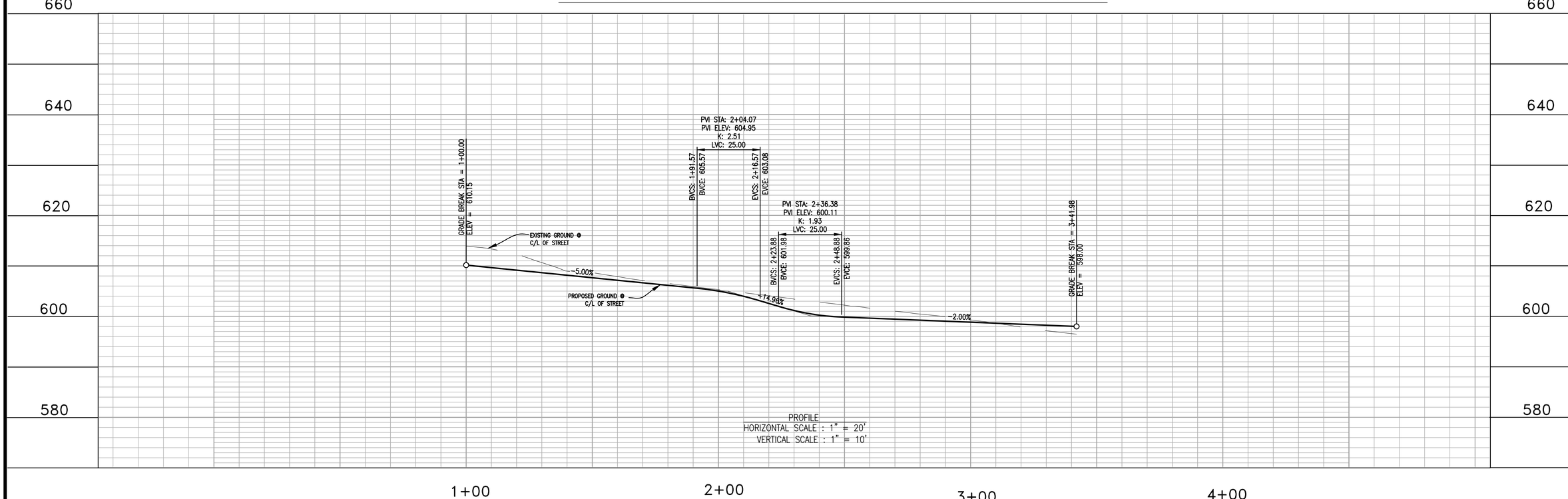
GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL

SFR ACCESS ROAD A

SEE SHEET C3.5



SINGLE FAMILY RESIDENCE ACCESS ROAD B



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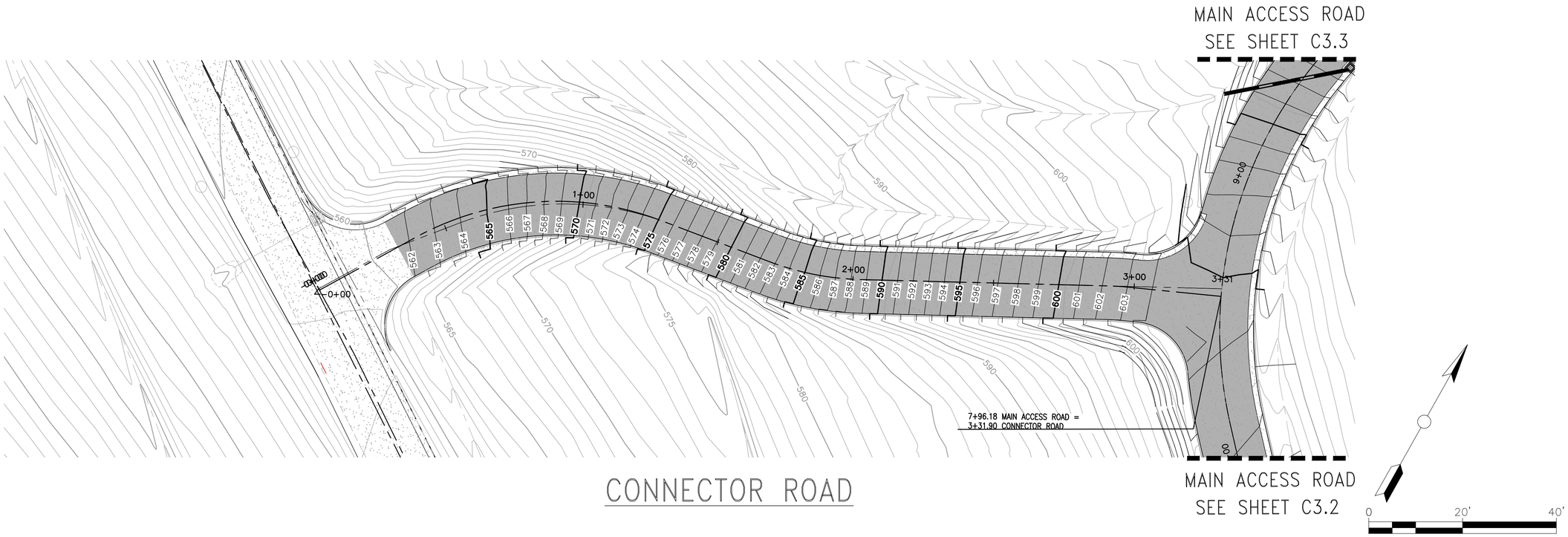
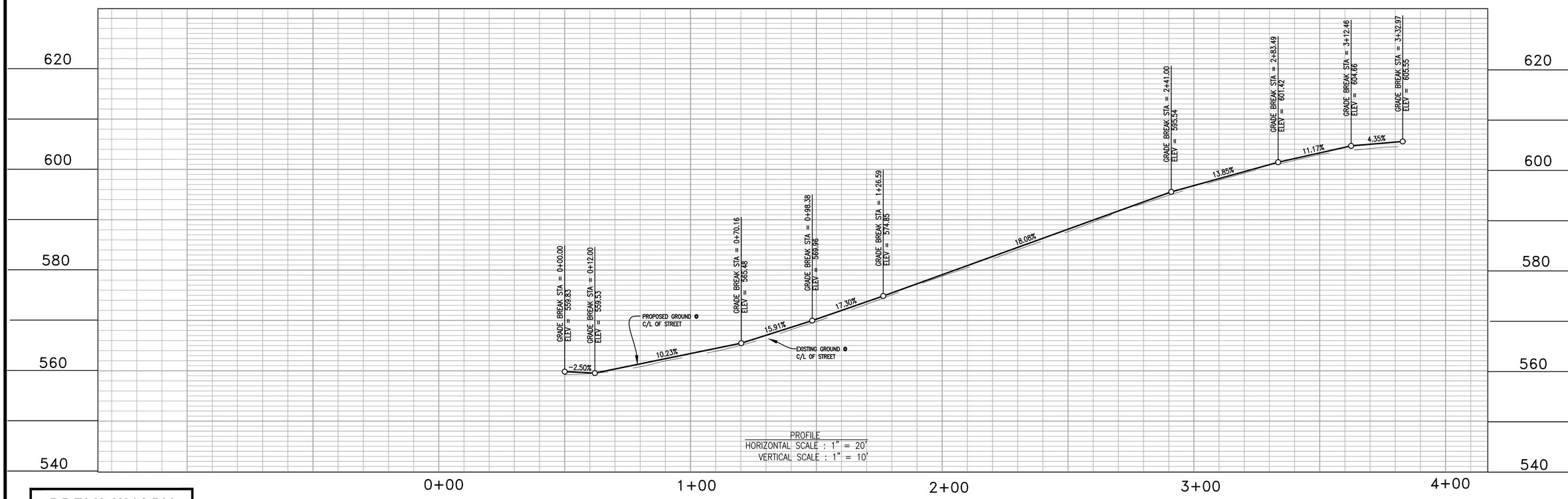
GOKULAM LOT A
SINGLE FAMILY RESIDENCE ACCESS ROAD B
COUNTY OF SANTA CLARA CALIFORNIA

C3.6 OF XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL





PROFILE
HORIZONTAL SCALE : 1" = 20'
VERTICAL SCALE : 1" = 10'

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GOKULAM LOT A

CONNECTOR ROAD

COUNTY OF SANTA CLARA
CALIFORNIA

C3.7
OF
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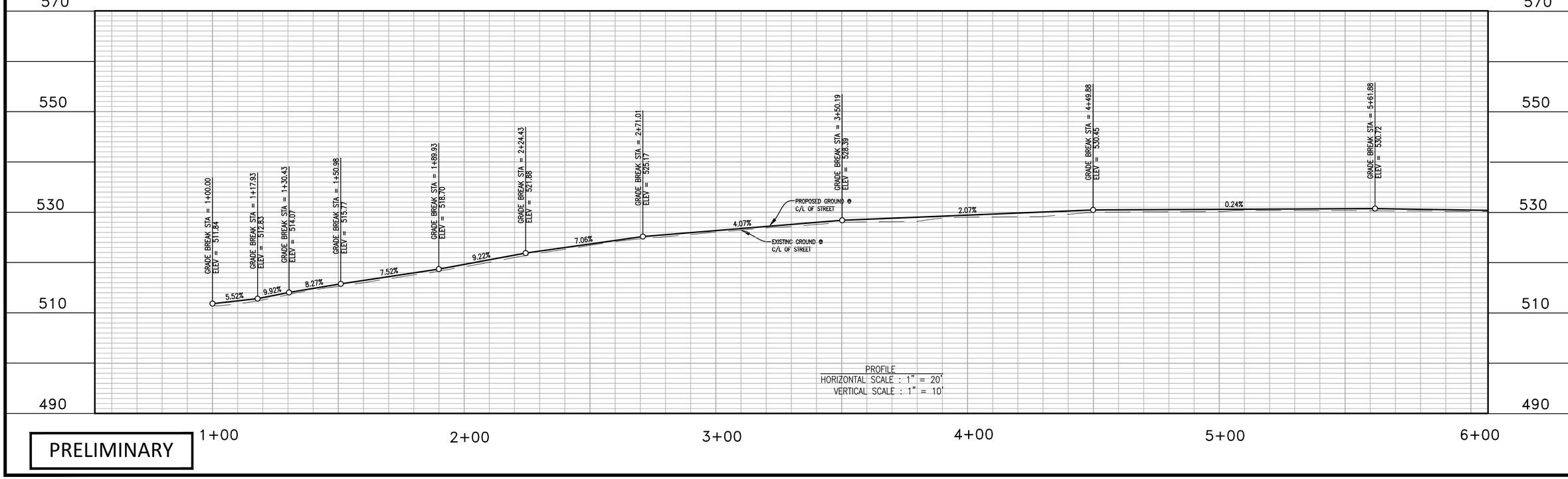
GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



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GOKULAM LOT A
ACCESS ROAD A
STA 1+00 TO STA 6+00
COUNTY OF SANTA CLARA
CALIFORNIA

C3.8
OF
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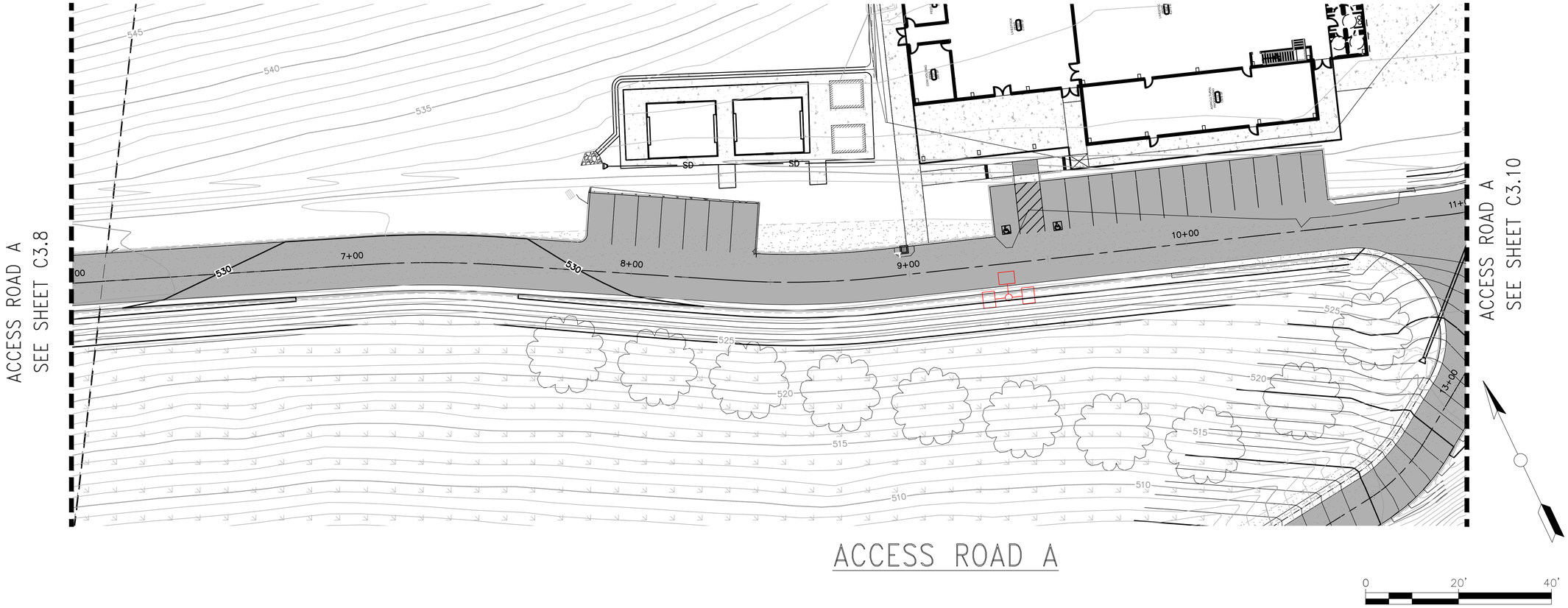
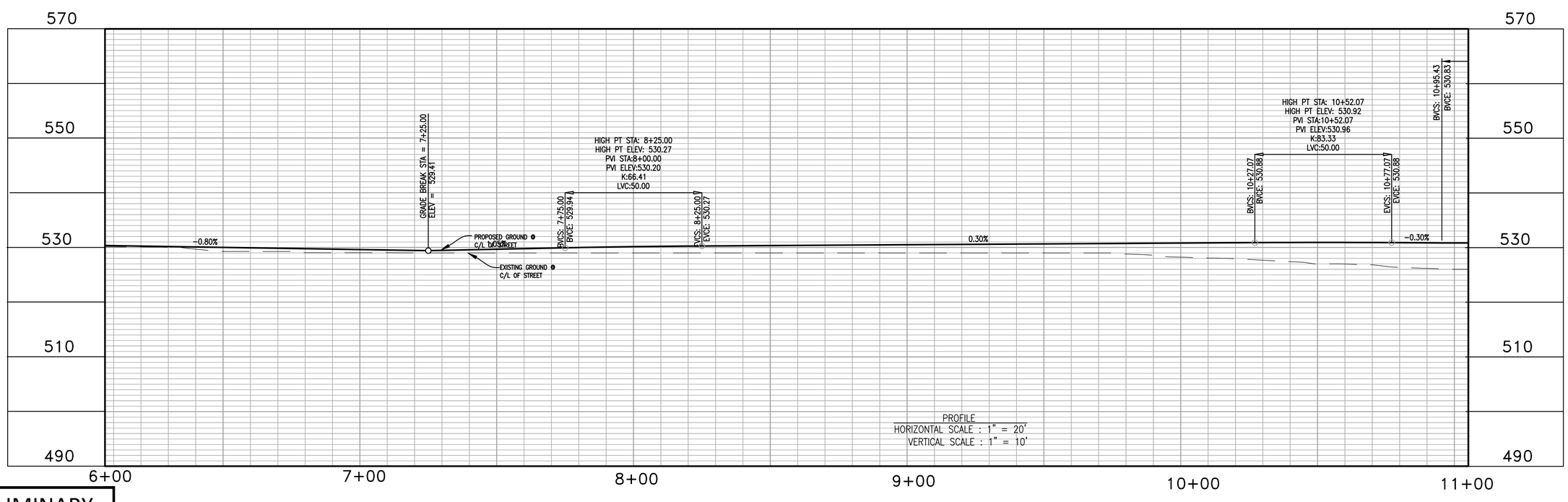
GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



ACCESS ROAD A



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No. 82491
CIVIL
STATE OF CALIFORNIA

GOKULAM LOT A

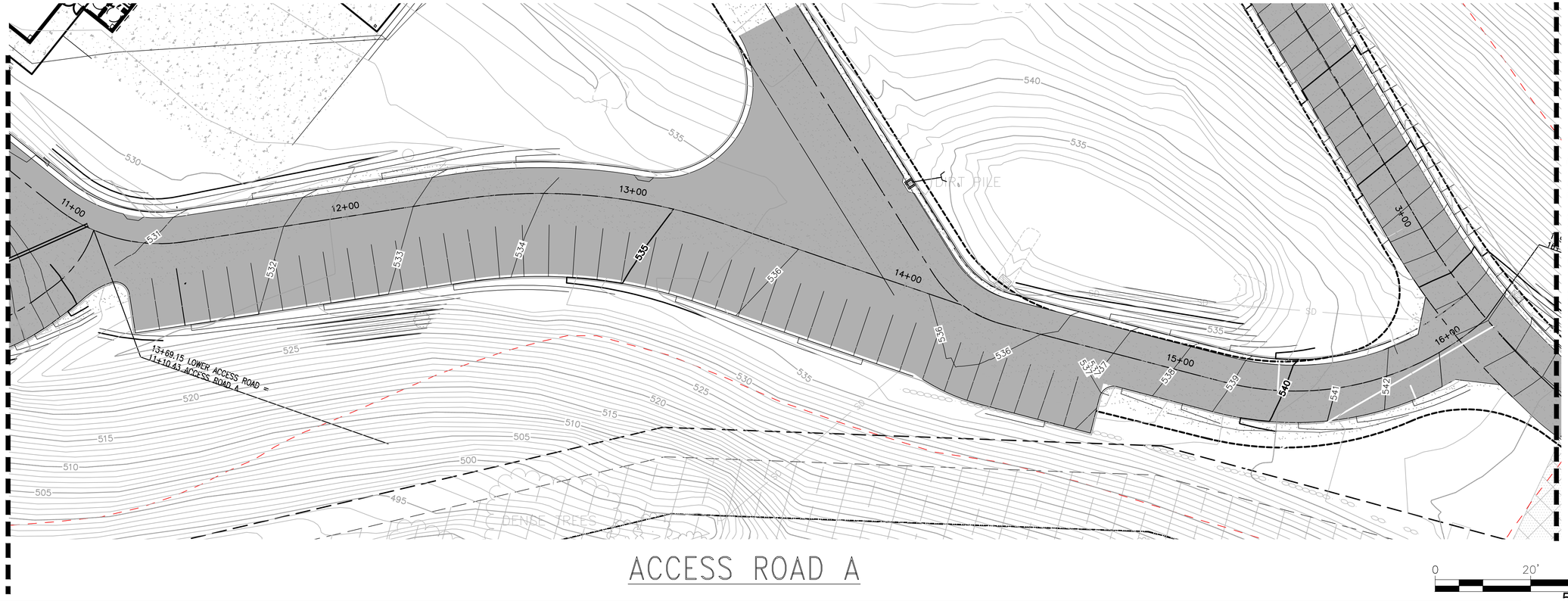
ACCESS ROAD A
STA 6+00 TO STA 11+00

COUNTY OF SANTA CLARA
CALIFORNIA

C3.9
OF
XX

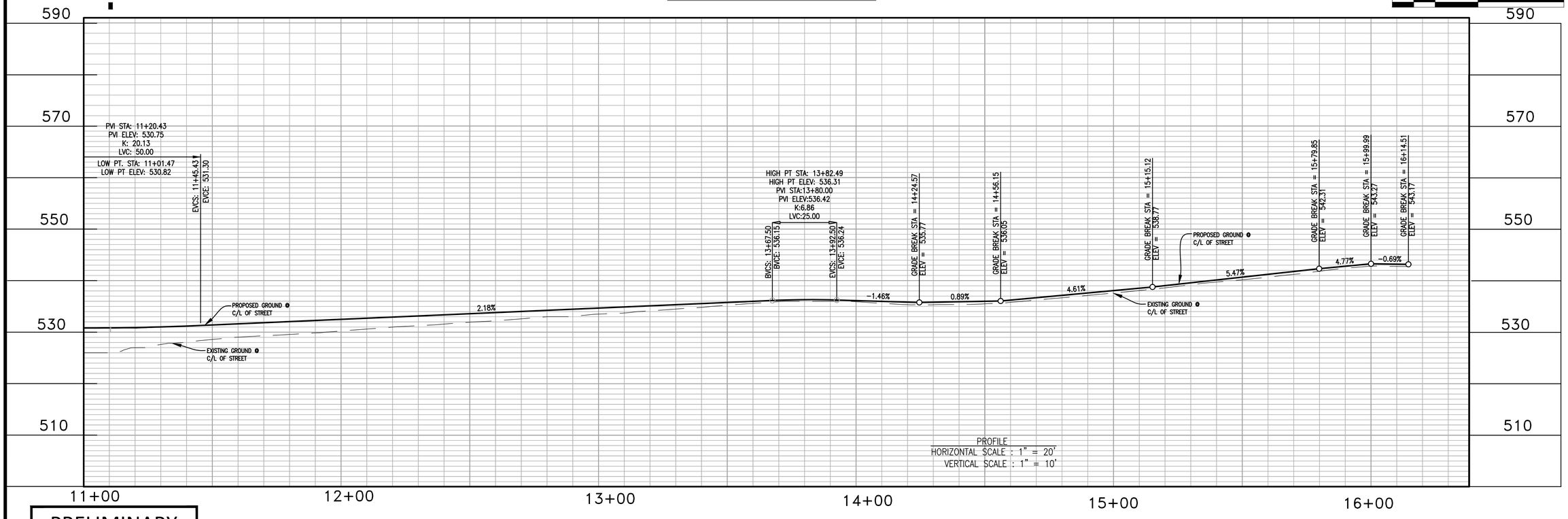
GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL

ACCESS ROAD A
SEE SHEET C3.9



MAIN ACCESS ROAD A
SEE SHEET C3.1

ACCESS ROAD A



PRELIMINARY

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BY	DATE	REVISIONS

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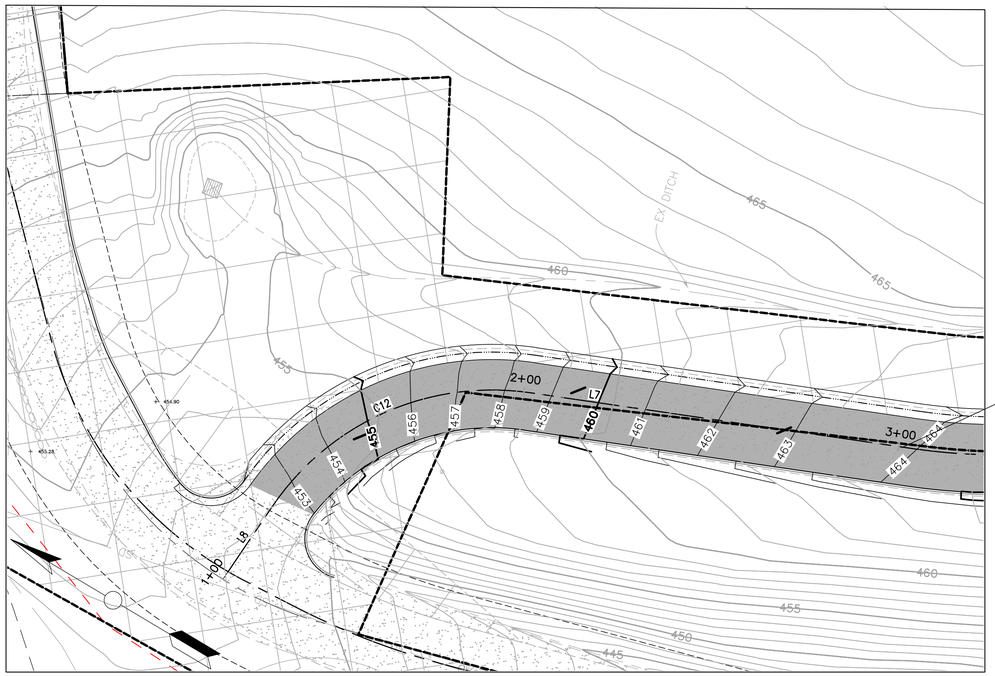
DRAWN BY
SB
CHECKED BY

REGISTERED PROFESSIONAL ENGINEER
SHARATCHANDRA BANDUGULA
No. 82491
CIVIL
STATE OF CALIFORNIA

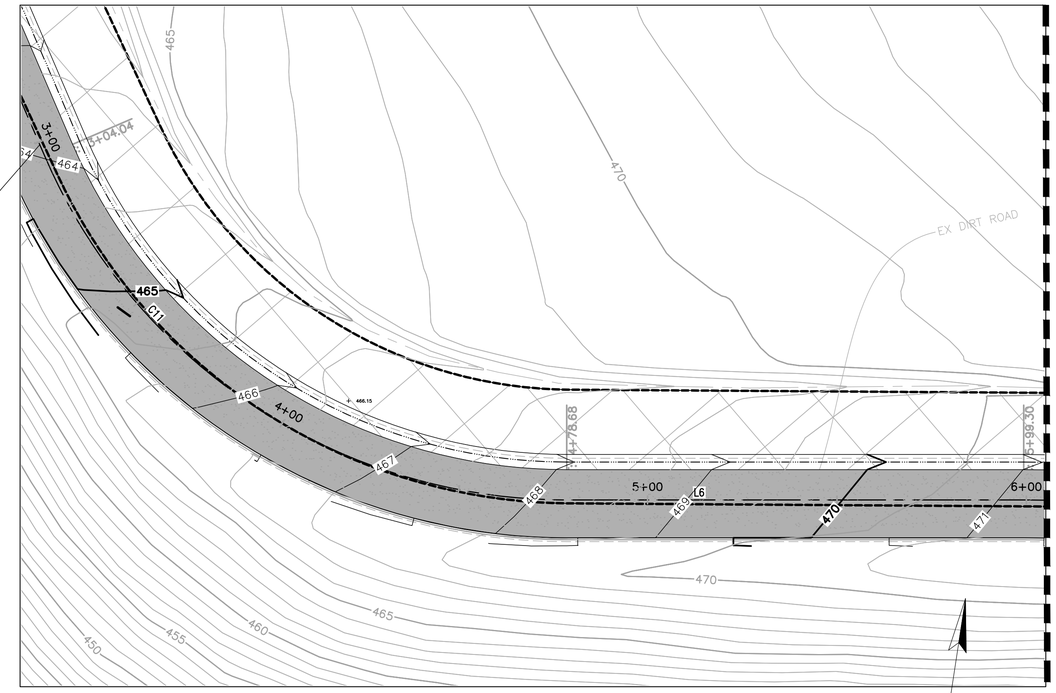
GOKULAM LOT A
ACCESS ROAD A
STA 11+00 TO STA 16+12
COUNTY OF SANTA CLARA
CALIFORNIA

C3.10
OF
XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



IDENTICAL

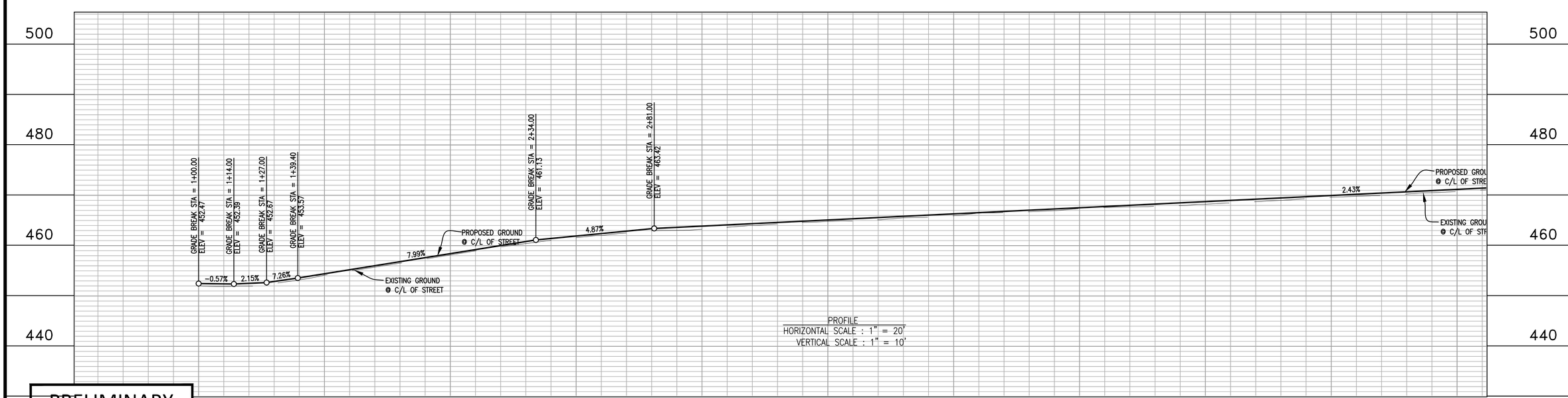


LOWER ACCESS ROAD
SEE SHEET C3.12

LOWER ACCESS ROAD

0 20' 40'

0 20' 40'



PROFILE
HORIZONTAL SCALE : 1" = 20'
VERTICAL SCALE : 1" = 10'

PRELIMINARY

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5/10/2024 DATE
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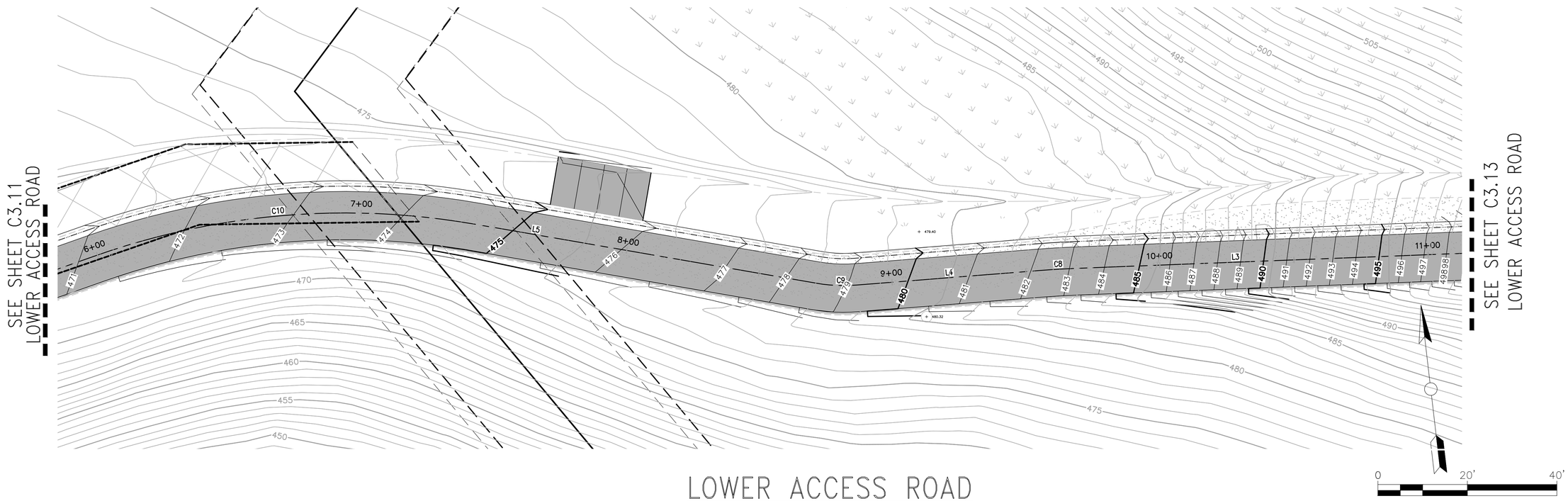
SB CHECKED BY

REGISTERED PROFESSIONAL ENGINEER
SHARA CHANDRA BANDUGULA
No. 82491
STATE OF CALIFORNIA

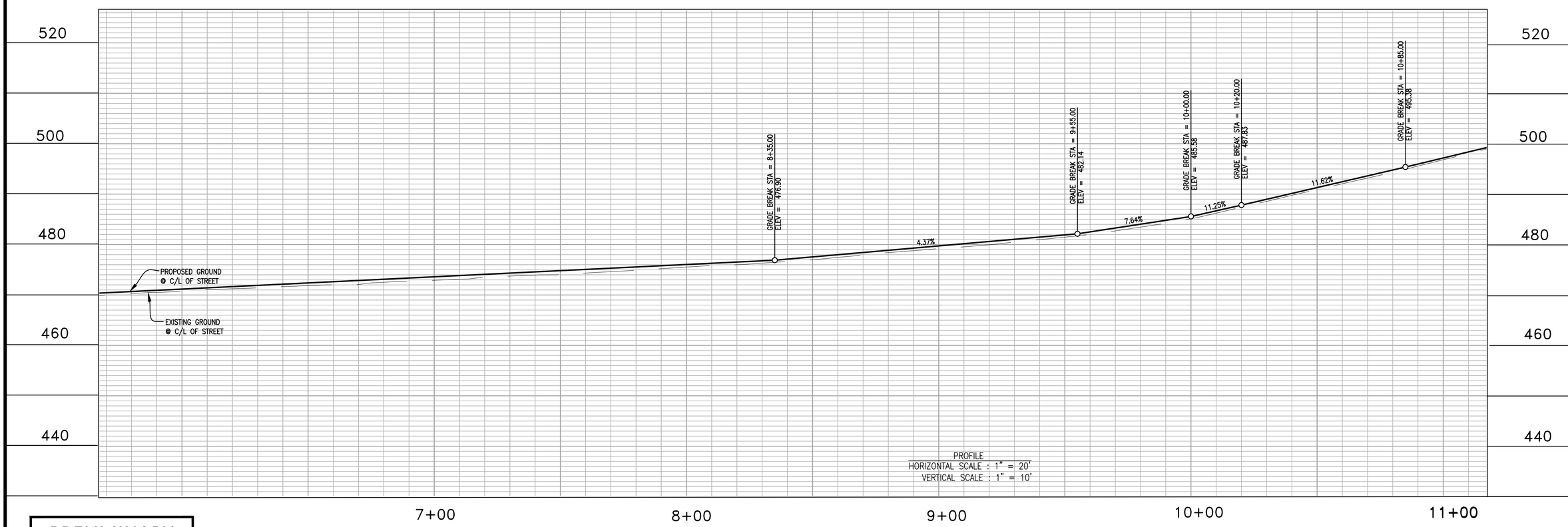
GOKULAM LOT A
LOWER ACCESS ROAD
STA 1+00 TO STA 6+00
COUNTY OF SANTA CLARA
CALIFORNIA

C3.11
OF
XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



LOWER ACCESS ROAD



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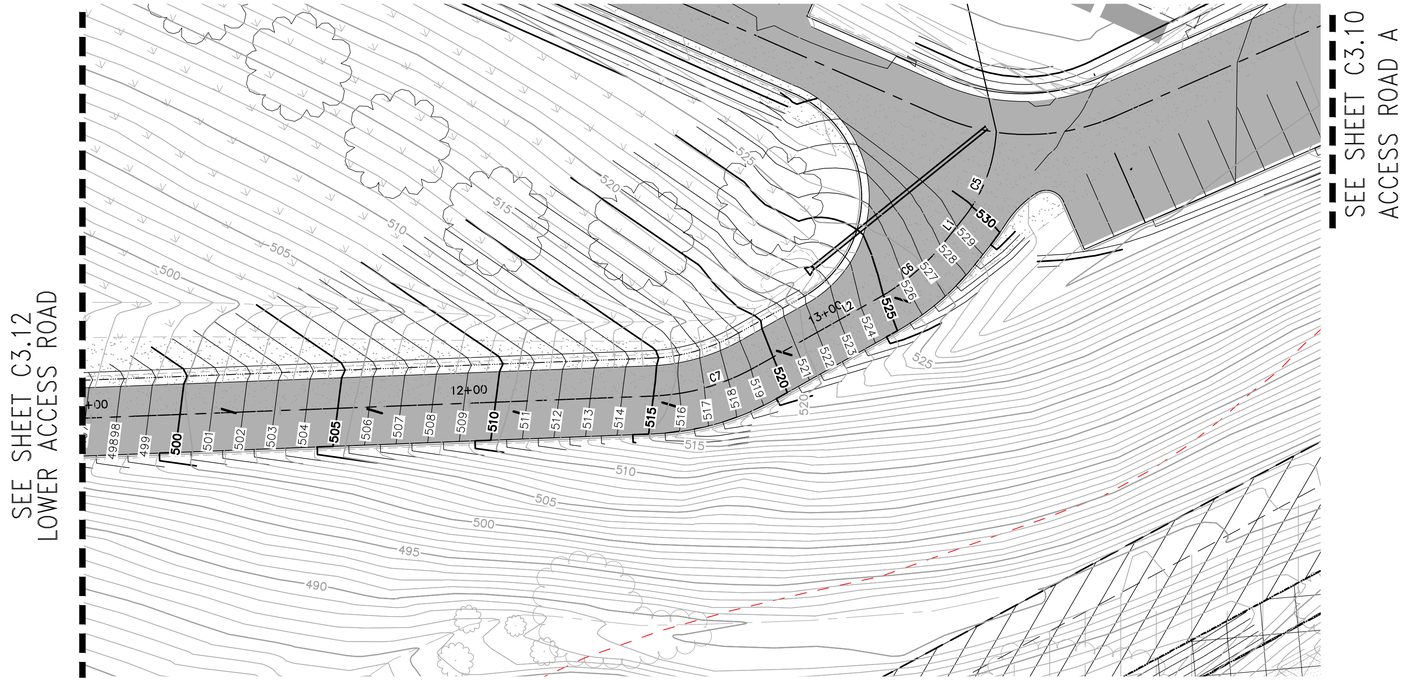
SB CHECKED BY

REGISTERED PROFESSIONAL ENGINEER
SHARATCHANDRA BANDUGULA
No. 82491
CIVIL
STATE OF CALIFORNIA

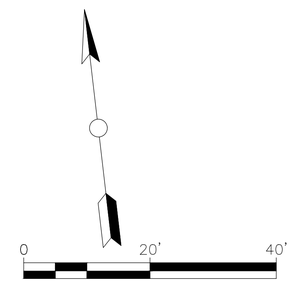
GOKULAM LOT A
LOWER ACCESS ROAD
STA 6+00 TO STA 11+00
COUNTY OF SANTA CLARA
CALIFORNIA

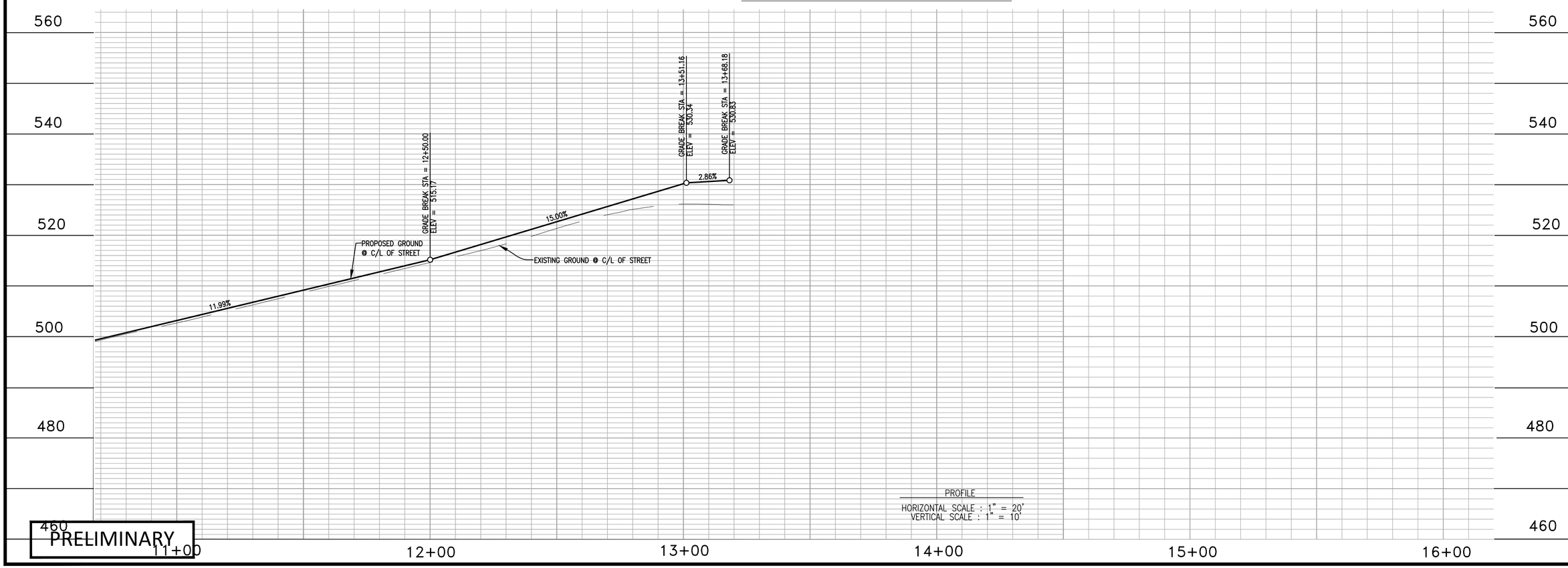
C3.12
OF
XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



LOWER ACCESS ROAD





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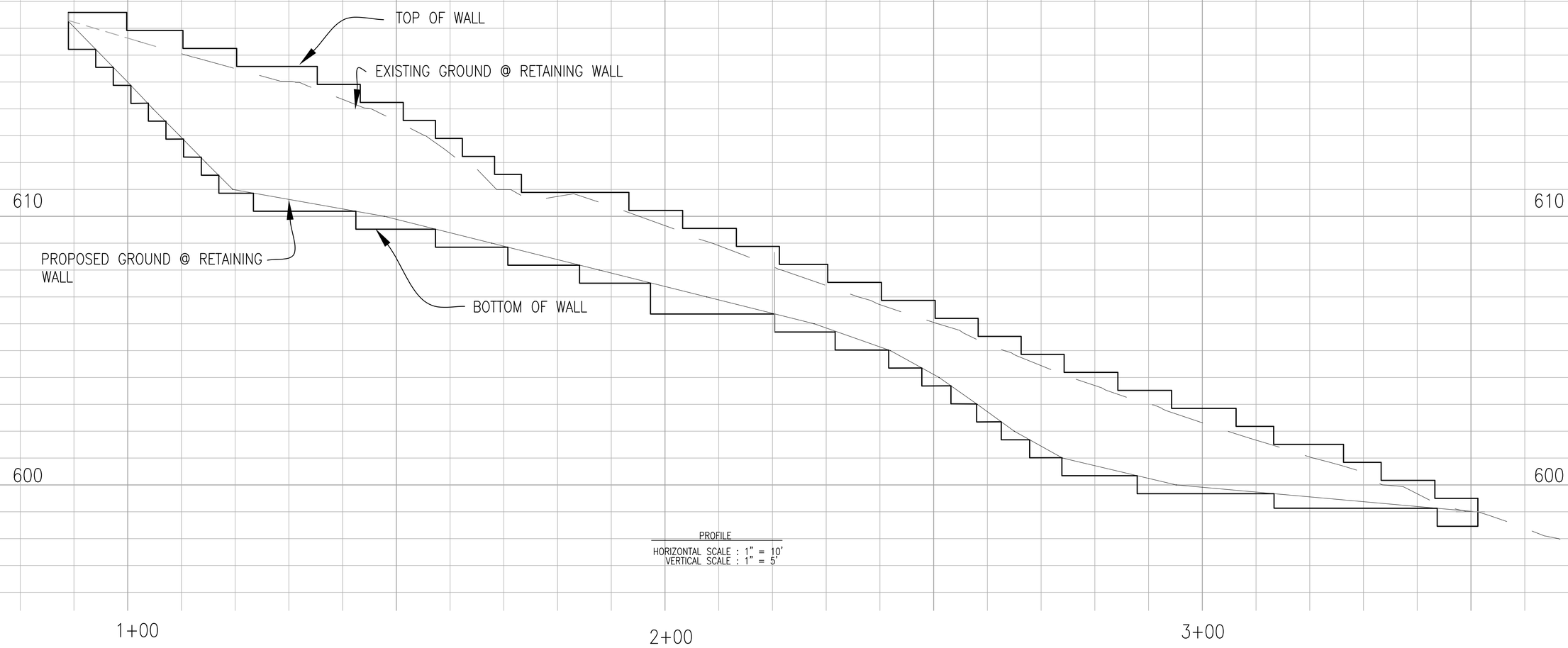
SB CHECKED BY

REGISTERED PROFESSIONAL ENGINEER
SHARA PANDORA BANDUGULA
No. 82491
CIVIL
STATE OF CALIFORNIA

GOKULAM LOT A
LOWER ACCESS ROAD
STA 6+00 TO STA 11+00
COUNTY OF SANTA CLARA
CALIFORNIA

C3.13
OF
XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



PROFILE

HORIZONTAL SCALE : 1" = 10'
VERTICAL SCALE : 1" = 5'

PRELIMINARY

BY	DATE	REVISIONS

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REGISTERED PROFESSIONAL ENGINEER
SHARATCHANDRA BANDUGULA
No. 82491
CIVIL
STATE OF CALIFORNIA

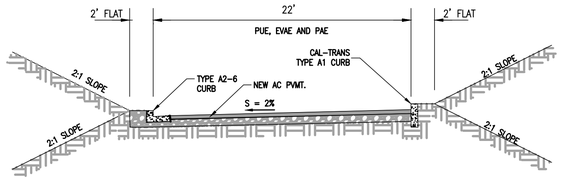
GOKULAM LOT A

RETAINING WALL PROFILE

COUNTY OF SANTA CLARA CALIFORNIA

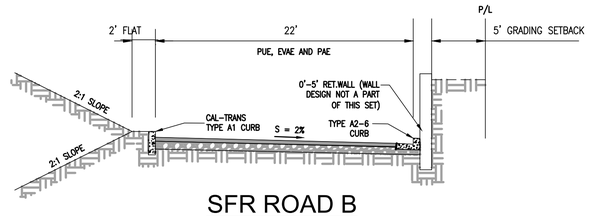
C3.14 OF XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



SFR ROAD A

NOT TO SCALE
TOP OF CURB (LEFT) = C/L + 0.20
TOP OF CURB (RIGHT) = C/L+0.72



SFR ROAD B

NOT TO SCALE
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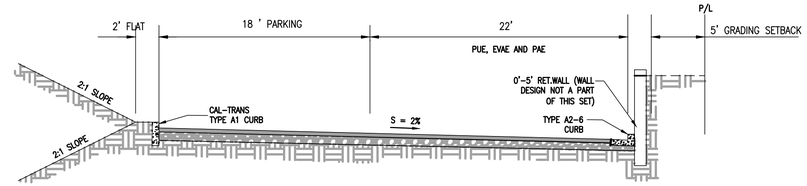
TOP OF CURB (RIGHT) = C/L+0.20



SFR ROAD B

NOT TO SCALE
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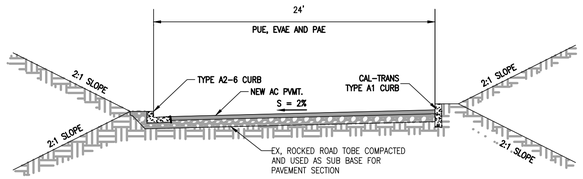
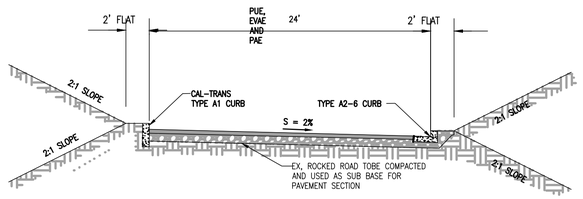
TOP OF CURB (RIGHT) = C/L+0.20



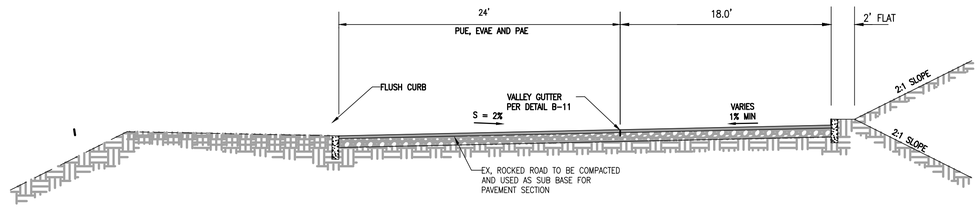
CONNECTOR ROAD

NOT TO SCALE
TOP OF CURB (LEFT) = C/L + 0.07
TOP OF CURB (RIGHT) = C/L − 0.06



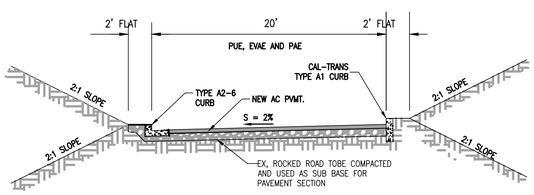
MAIN ACCESS ROAD

NOT TO SCALE
TOP OF CURB (LEFT) = C/L + 0.70
TOP OF CURB (RIGHT) = C/L +0.17



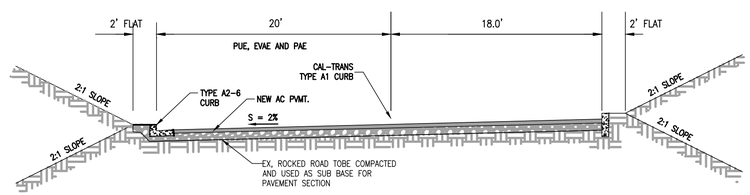
MAIN ACCESS ROAD @ PARKING

NOT TO SCALE
TOP OF CURB (LEFT) = C/L − 0.24
TOP OF CURB (RIGHT) = C/L +1.10



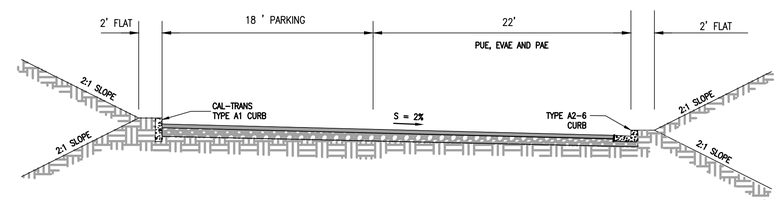
ACCESS ROAD A DRAINS LEFT

NOT TO SCALE
TOP OF CURB (LEFT) = C/L + 0.22'
TOP OF CURB (RIGHT) = C/L + 0.70'



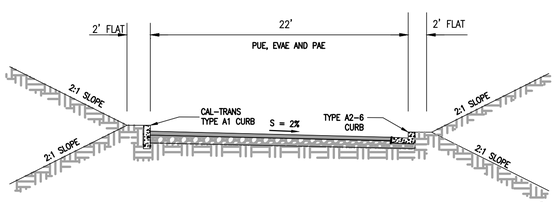
ACCESS ROAD A @ PARKING ON RIGHT SIDE

NOT TO SCALE
TOP OF CURB (LEFT) = C/L + 0.22'
TOP OF CURB (RIGHT) = C/L + 1.06'



ACCESS ROAD A @ PARKING ON LEFT SIDE

NOT TO SCALE
TOP OF CURB (LEFT) = C/L + 1.06'
TOP OF CURB (RIGHT) = C/L + 0.22'



ACCESS ROAD A DRAINS RIGHT

NOT TO SCALE
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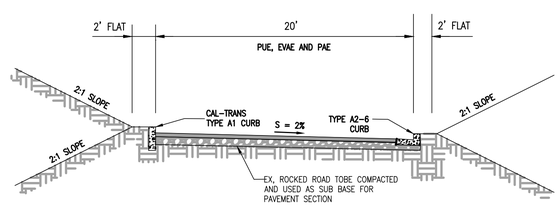
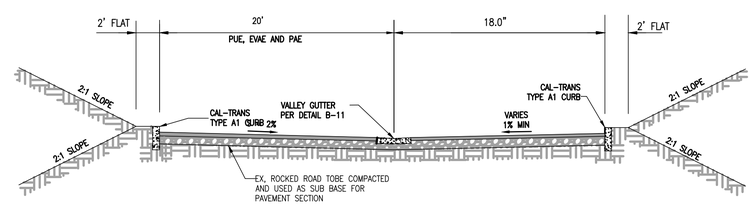
TOP OF CURB (RIGHT) = C/L+0.20



LOWER ACCESS ROAD

NOT TO SCALE
TOP OF CURB (LEFT) = C/L + 0.70'
TOP OF CURB (RIGHT) = C/L+ 0.22'



LOWER ACCESS ROAD @ PARKING

NOT TO SCALE
TOP OF CURB (LEFT) = C/L + 0.88
TOP OF CURB (RIGHT) = C/L +0.50

PRELIMINARY

BY	DATE	REVISIONS

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5/10/2024 DATE
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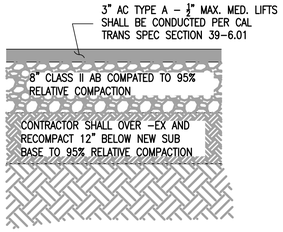
REGISTERED PROFESSIONAL ENGINEER
SHARATCHANDRA BANDUGULA
No. 82491
CIVIL
STATE OF CALIFORNIA

GOKULAM LOT A
TYPICAL STREET SECTIONS
COUNTY OF SANTA CLARA
CALIFORNIA

C4.1
OF
XX

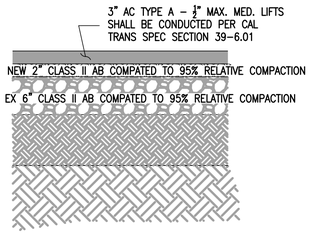
GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



AC PAVEMENT SECTION

NOT TO SCALE

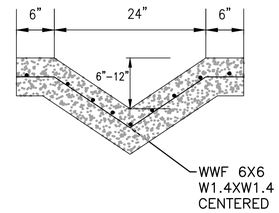
(SFR ROAD A & SFR ROAD B)



EX AC PAVEMENT SECTION

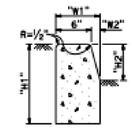
NOT TO SCALE

(MAIN ACCESS ROAD & CONNECTOR ROAD)



CONC V-DITCH

NOT TO SCALE



TYPE A1 CURBS

See Table A

TABLE A

CURB TYPE	DIMENSIONS			
	"H1"	"H2"	"W1"	"W2"
A1-6	1'-2"	6"	7½"	1½"
A1-8	1'-4"	8"	8"	2"
A2-6	1'-0"	6"	2'-7½"	1½"
A2-8	1'-2"	8"	2'-8"	2"
A3-6	6"	5"	7¼"	1¼"
A3-8	8"	7"	7¾"	1¾"
B1-4	1'-0"	4"	7½"	2½"
B1-6	1'-2"	6"	9"	4"
B2-4	10"	4"	2'-7½"	2½"
B2-6	1'-0"	6"	2'-9"	4"
B3-4	4"	3"	7"	2"
B3-6	6"	5"	8½"	3½"
D-4	10"	4"	1'-6"	1'-1"
D-6	1'-0"	6"	2'-2"	1'-9"

CURB QUANTITIES

TYPE	CUBIC YARDS PER LINEAR FOOT
A1-6	0.02685
A1-8	0.03084
A2-6	0.05903
A2-8	0.06379
A3-6	0.01036
A3-8	0.01435
B1-4	0.02185
B1-6	0.02930
B2-4	0.05515
B2-6	0.06171
B3-4	0.00641
B3-6	0.01074
B4	0.05709
D-4	0.04085
D-6	0.06804
E	0.06661

NOTES:

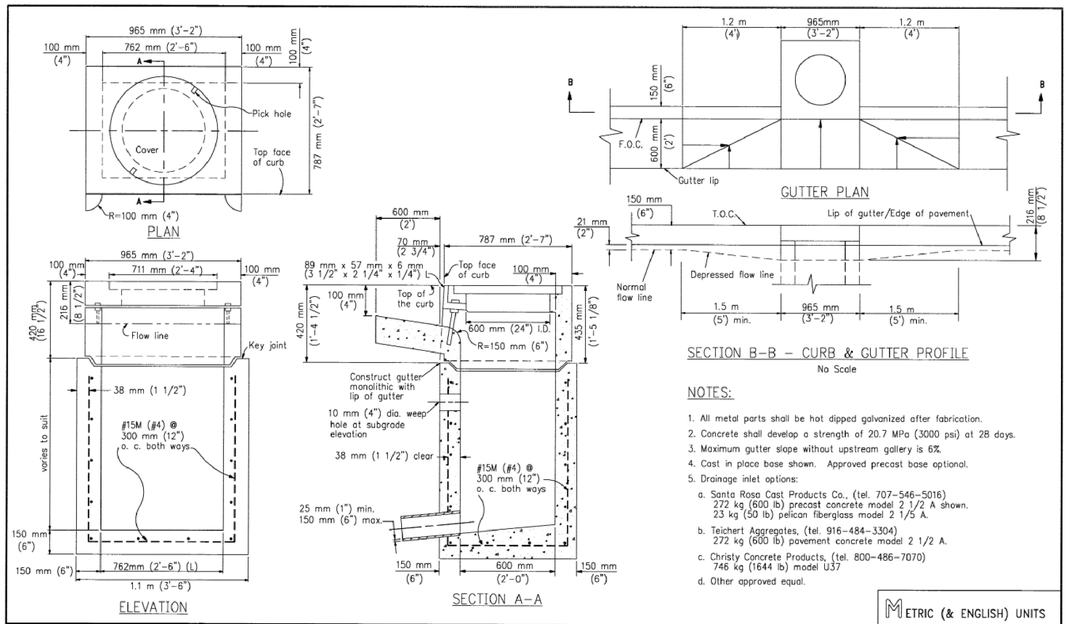
1. Case A driveway section typically applies.
2. X=3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
3. Sidewalk and ramp thickness "T" at driveway shall be 4" for residental and 6" for commercial.
4. Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5'-0" from gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.

CURBS

5. Minimum width of clear passageway for sidewalk shall be 4'-2".
6. Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".
7. Across the pedestrian route at curb ramp locations, the gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

TYPE A CURB DETAIL

NOT TO SCALE



NOTES:

1. All metal parts shall be hot dipped galvanized after fabrication.
2. Concrete shall develop a strength of 20.7 MPa (3000 psi) at 28 days.
3. Maximum gutter slope without upstream gallery is 6%.
4. Cast in place base shown. Approved precast base optional.
5. Drainage inlet options:
   a. Santa Rosa Cast Products Co., (tel. 707-546-5016) 272 kg (600 lb) precast concrete model 2 1/2 A shown. 23 kg (50 lb) pelican fiberglass model 2 1/5 A.
   b. Teichert Aggregates, (tel. 916-484-3304) 272 kg (600 lb) pavement concrete model 2 1/2 A.
   c. Christy Concrete Products, (tel. 800-486-7070) 746 kg (1644 lb) model U37
   d. Other approved equal.

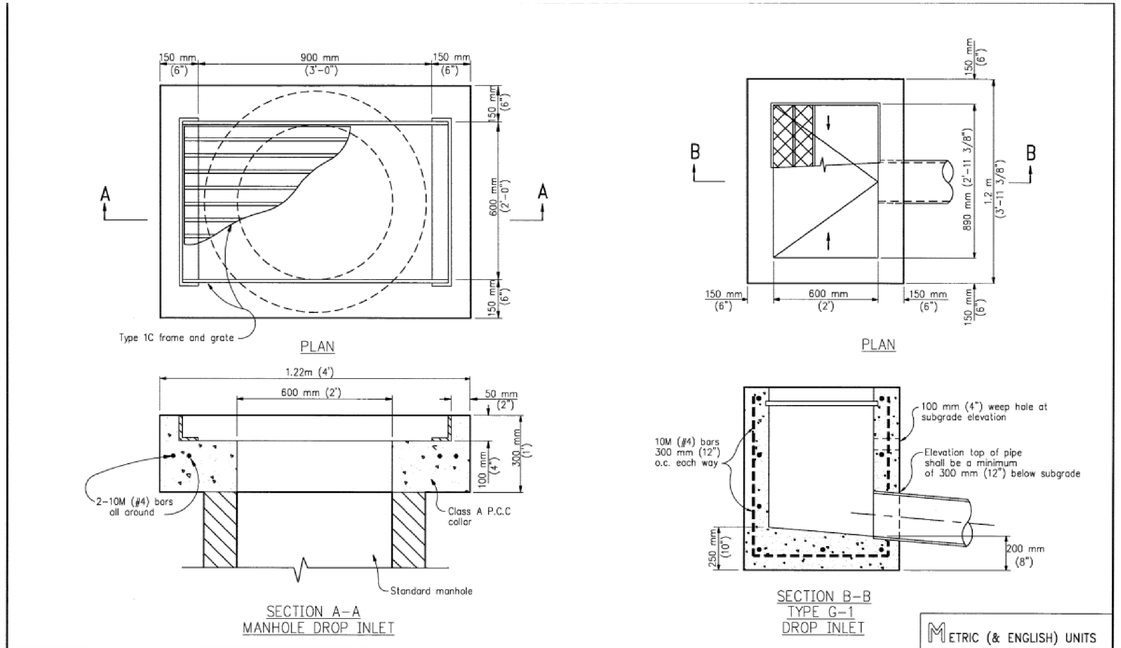
METRIC (& ENGLISH) UNITS

SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT

VAP 09/26/97 DESIGNED; STQ 09/26/97 DRAWN; VAP TH 9/26/97 CHECKED

STANDARD DETAILS
DRAINAGE INLET TYPE C-2 1/2

DRAWING NO. C 1 — SHT NO. 1 OF 1



METRIC (& ENGLISH) UNITS

SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT

VAP 09/25/97 DESIGNED; LRE 09/25/97 DRAWN; VAP TH 9/25/97 CHECKED

STANDARD DETAILS
TYPE G1 AND MANHOLE DROP INLET

DRAWING NO. C 2 — SHT NO. 1 OF 1

PRELIMINARY

NAVIS design | build | manage info@navisdbm.com

BY	DATE	REVISIONS

5/10/2024 DATE; KS, SB DRAWN BY; SB CHECKED BY

REGISTERED PROFESSIONAL ENGINEER SHARATCHANDRA BANDUGULA No. 82491 CIVIL STATE OF CALIFORNIA

GOKULAM LOT A

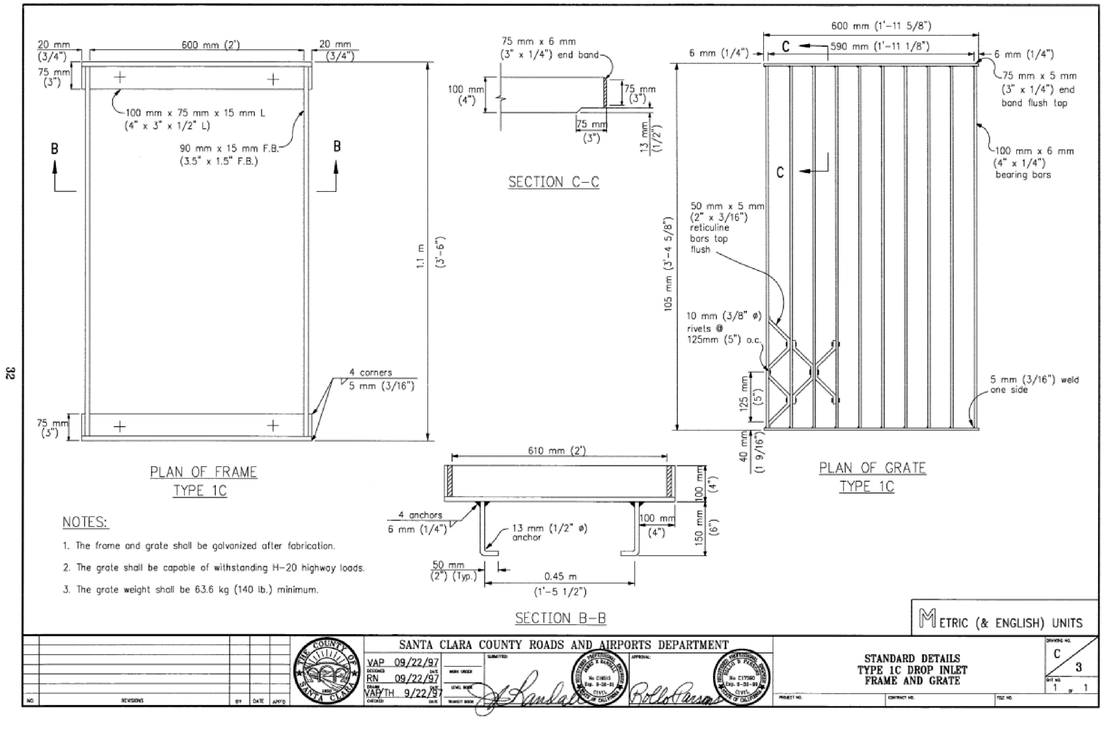
COUNTY OF SANTA CLARA

CALIFORNIA

DETAILS

C4.2 OF XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



NOTES:

1. The frame and grate shall be galvanized after fabrication.
2. The grate shall be capable of withstanding H-20 highway loads.
3. The grate weight shall be 63.6 kg (140 lb.) minimum.

METRIC (& ENGLISH) UNITS

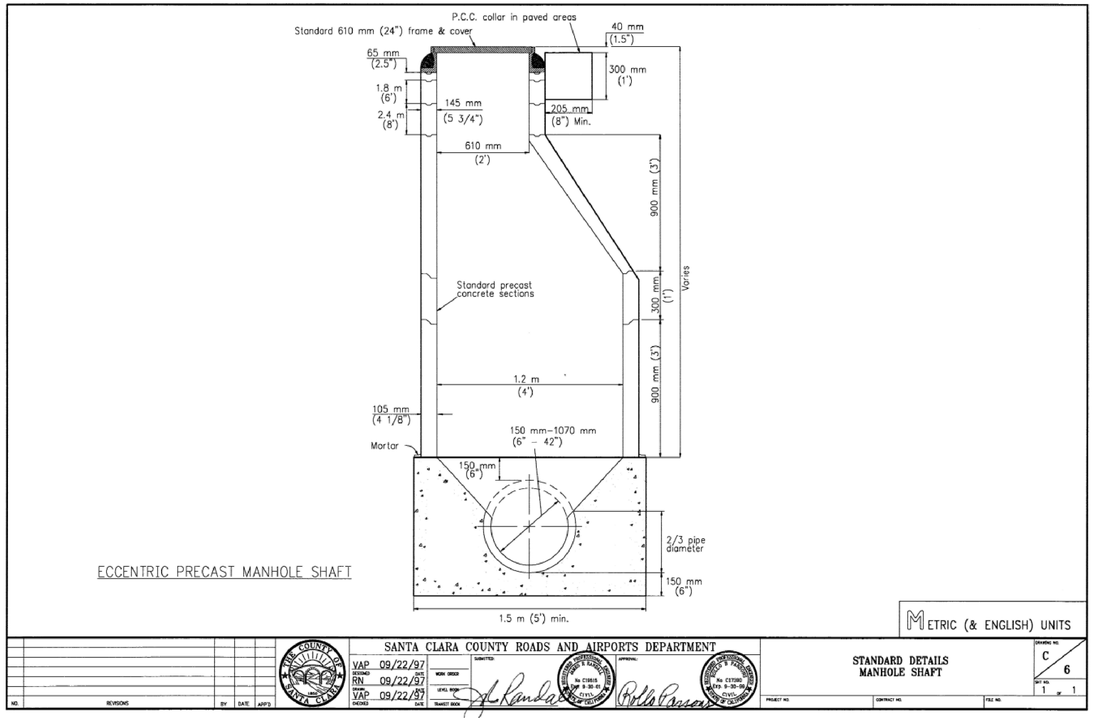
SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT

VAP 09/22/97 DESIGNED · RN 09/22/97 DRAWN · VAP 09/22/97 CHECKED · VAP/TH 9/22/97 DATE

STANDARD DETAILS
TYPE 1C DROP INLET
FRAME AND GRATE

DRAWING NO. C 3 · SHT NO. 1 OF 1

32



ECCENTRIC PRECAST MANHOLE SHAFT

METRIC (& ENGLISH) UNITS

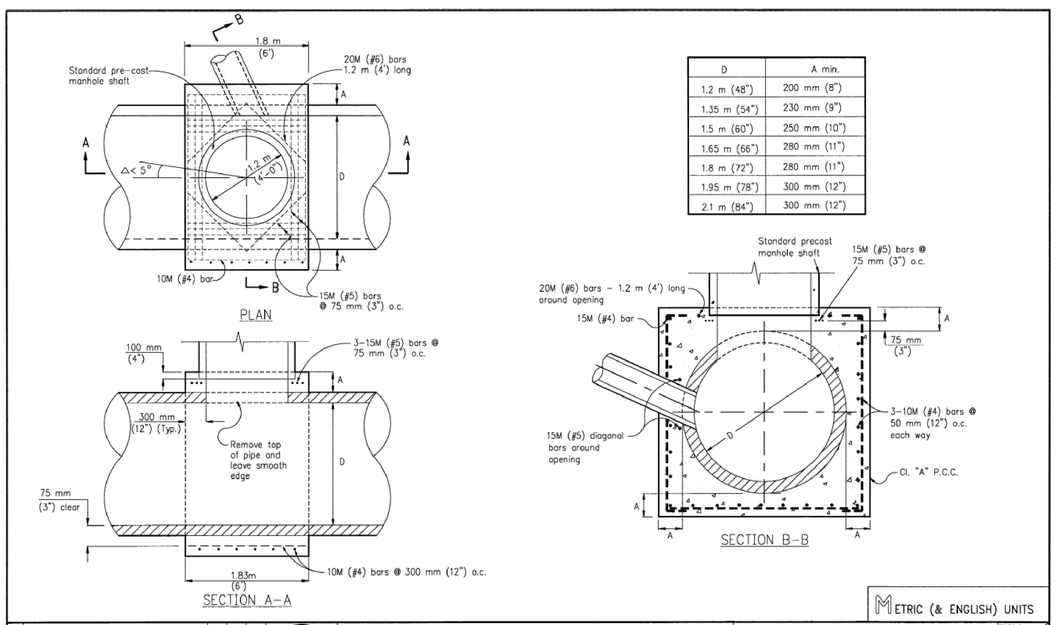
SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT

VAP 09/22/97 DESIGNED · RN 09/22/97 DRAWN · VAP 09/22/97 CHECKED

STANDARD DETAILS
MANHOLE SHAFT

DRAWING NO. C 6 · SHT NO. 1 OF 1

37



D	A min.
1.2 m (48")	200 mm (8")
1.35 m (54")	230 mm (9")
1.5 m (60")	250 mm (10")
1.65 m (66")	280 mm (11")
1.8 m (72")	280 mm (11")
1.95 m (78")	300 mm (12")
2.1 m (84")	300 mm (12")

METRIC (& ENGLISH) UNITS

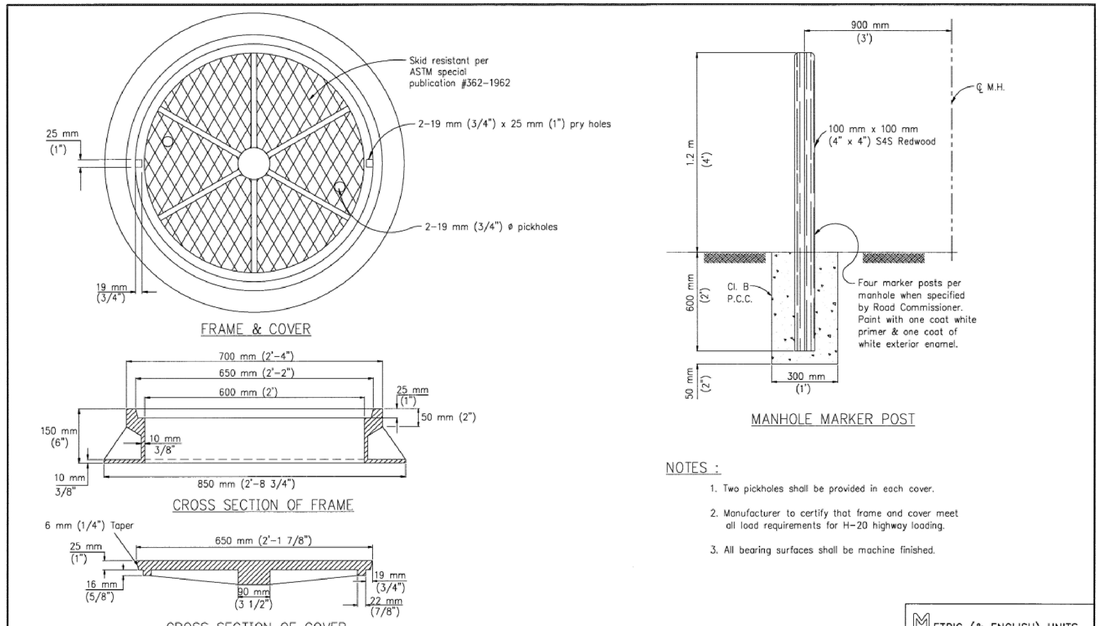
SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT

VAP 09/25/97 DESIGNED · RN 09/25/97 DRAWN · VAP/TH 9/25/97 CHECKED

STANDARD DETAILS
STRAIGHT MANHOLE BASES
1.2 m (48") THROUGH 2.1 m (84")

DRAWING NO. C 7 · SHT NO. 1 OF 1

38



NOTES :

1. Two pickholes shall be provided in each cover.
2. Manufacturer to certify that frame and cover meet all load requirements for H-20 highway loading.
3. All bearing surfaces shall be machine finished.

METRIC (& ENGLISH) UNITS

SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT

VAP 09/22/97 DESIGNED · RN 09/22/97 DRAWN · VAP 09/22/97 CHECKED

STANDARD DETAILS
MANHOLE FRAME AND COVER

DRAWING NO. C 9 · SHT NO. 1 OF 1

40

PRELIMINARY

NO.	REVISIONS	BY	DATE	APP'D

BY	DATE	REVISIONS

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5/10/2024 DATE
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SB CHECKED BY

REGISTERED PROFESSIONAL ENGINEER SHARATCHANDRA BANDUGULA No. 82491 CIVIL STATE OF CALIFORNIA

GRADING & IMPROVEMENT PLANS

GOKULAM LOT A

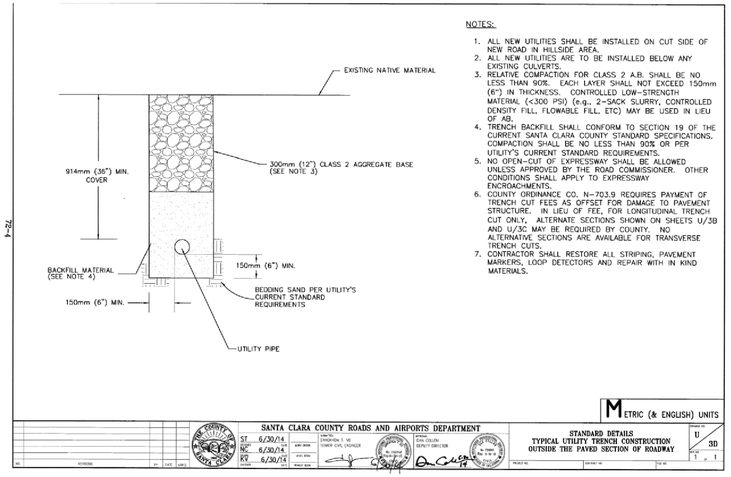
DETAILS

COUNTY OF SANTA CLARA

CALIFORNIA

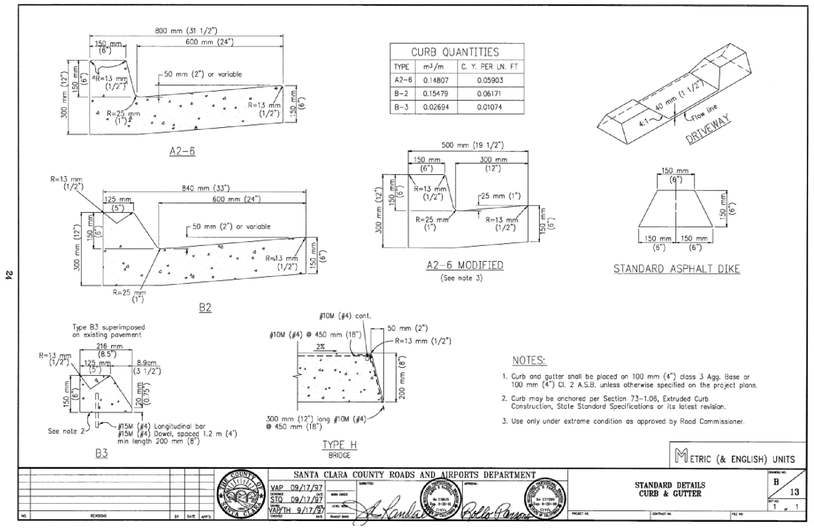
C4.3 OF XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



NOTES:

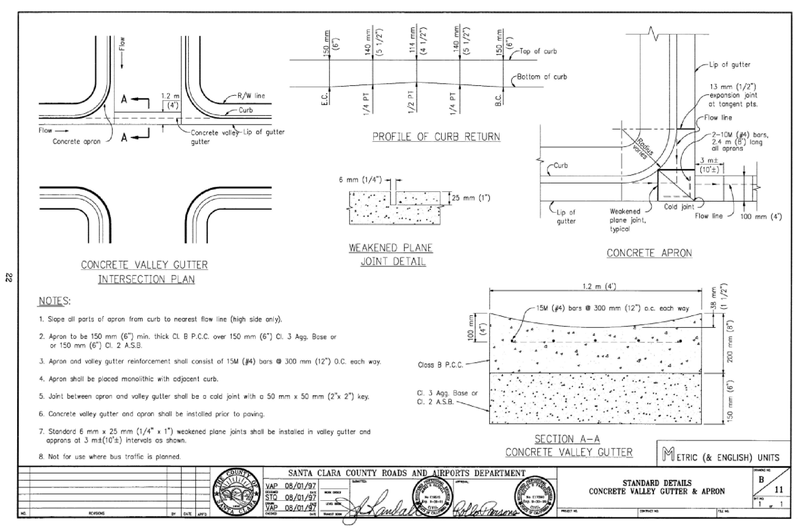
1. ALL NEW UTILITIES SHALL BE INSTALLED ON CUT SIDE OF NEW ROAD IN HILLSIDE AREA.
2. ALL NEW UTILITIES ARE TO BE INSTALLED BELOW ANY EXISTING CULVERTS.
3. RELATIVE COMPACTION FOR CLASS 2 A.B. SHALL BE NO LESS THAN 90%. EACH LAYER SHALL NOT EXCEED 150mm (6") IN THICKNESS. CONTROLLED LOW-STRENGTH MATERIAL (<300 PSI) (e.g., 2-SACK SLURRY, CONTROLLED DENSITY FILL, FLOWABLE FILL, ETC) MAY BE USED IN LIEU OF AB.
4. TRENCH BACKFILL SHALL CONFORM TO SECTION 19 OF THE CURRENT SANTA CLARA COUNTY STANDARD SPECIFICATIONS. COMPACTION SHALL BE NO LESS THAN 90% OR PER UTILITY'S CURRENT STANDARD REQUIREMENTS.
5. NO OPEN-CUT OF EXPRESSWAY SHALL BE ALLOWED UNLESS APPROVED BY THE ROAD COMMISSIONER. OTHER CONDITIONS SHALL APPLY TO EXPRESSWAY ENCROACHMENTS.
6. COUNTY ORDINANCE CO. N-703.9 REQUIRES PAYMENT OF TRENCH CUT FEES AS OFFSET FOR DAMAGE TO PAVEMENT STRUCTURE. IN LIEU OF FEE, FOR LONGITUDINAL TRENCH CUT ONLY, ALTERNATE SECTIONS SHOWN ON SHEETS U/3B AND U/3C MAY BE REQUIRED BY COUNTY. NO ALTERNATIVE SECTIONS ARE AVAILABLE FOR TRANSVERSE TRENCH CUTS.
7. CONTRACTOR SHALL RESTORE ALL STRIPING, PAVEMENT MARKERS, LOOP DETECTORS AND REPAIR WITH IN KIND MATERIALS.



CURB QUANTITIES		
TYPE	m³/m	C. Y. PER LN. FT
A2-6	0.14807	0.05903
B-2	0.15479	0.06171
B-3	0.02694	0.01074

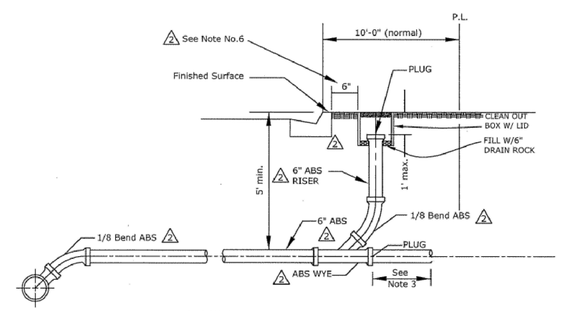
NOTES:

1. Curb and gutter shall be placed on 100 mm (4") class 3 Agg. Base or 100 mm (4") Cl. 2 A.S.B. unless otherwise specified on the project plans.
2. Curb may be anchored per Section 73-1.06, Extruded Curb Construction, State Standard Specifications or its latest revision.
3. Use only under extreme condition as approved by Road Commissioner.



NOTES:

1. Slope all parts of apron from curb to nearest flow line (high side only).
2. Apron to be 150 mm (6") min. thick Cl. B P.C.C. over 150 mm (6") Cl. 3 Agg. Base or or 150 mm (6") Cl. 2 A.S.B.
3. Apron and valley gutter reinforcement shall consist of 15M (#4) bars @ 300 mm (12") O.C. each way.
4. Apron shall be placed monolithic with adjacent curb.
5. Joint between apron and valley gutter shall be a cold joint with a 50 mm x 50 mm (2"x 2") key.
6. Concrete valley gutter and apron shall be installed prior to paving.
7. Standard 6 mm x 25 mm (1/4" x 1") weakened plane joints shall be installed in valley gutter and aprons at 3 m±(10'±) intervals as shown.
8. Not for use where bus traffic is planned.



Notes:

1. Cleanout box and lid shall be per Standard Drawing No. 602.
2. Plug shall be vitrified clay or rubber.
3. Customer service connection shall be made under the supervision of the Building department. (If on private property)
4. Riser shall be the same size as sewer lateral.
5. Minimum grade at lateral shall be 1/4" per foot.
6. Pipe material shall be ABS from main to C.O.. Cleanout should be placed 6" behind street curb or as approved by City Engineer.

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REGISTERED PROFESSIONAL ENGINEER SHARATCHANDRA BANDUGULA No. 82491 CIVIL STATE OF CALIFORNIA

GRADING & IMPROVEMENT PLANS
GOKULAM LOT A
DETAILS
COUNTY OF SANTA CLARA
CALIFORNIA

C4.4
OF
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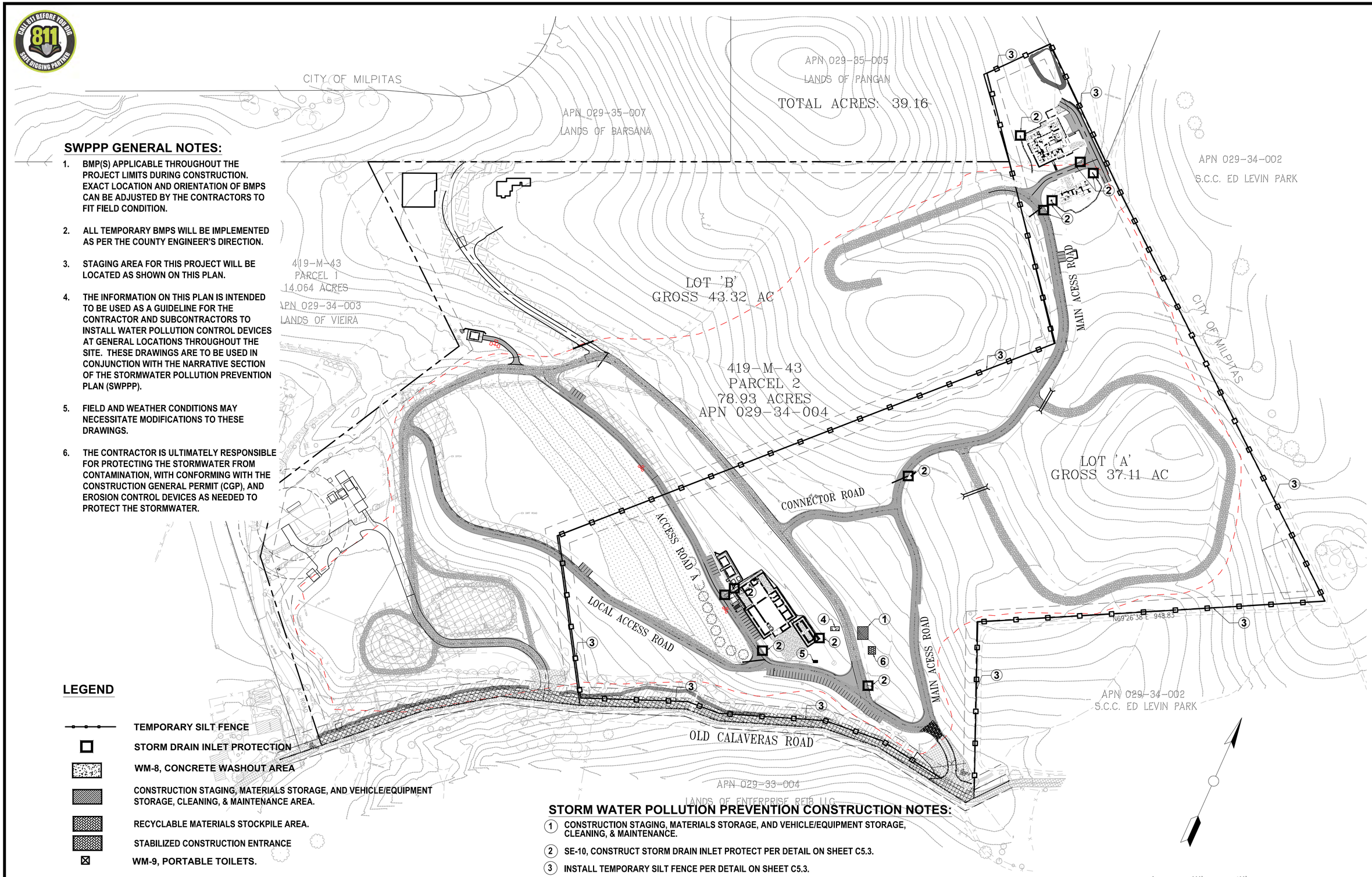
GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



SWPPP GENERAL NOTES:

1. BMP(S) APPLICABLE THROUGHOUT THE PROJECT LIMITS DURING CONSTRUCTION. EXACT LOCATION AND ORIENTATION OF BMPS CAN BE ADJUSTED BY THE CONTRACTORS TO FIT FIELD CONDITION.
2. ALL TEMPORARY BMPS WILL BE IMPLEMENTED AS PER THE COUNTY ENGINEER'S DIRECTION.
3. STAGING AREA FOR THIS PROJECT WILL BE LOCATED AS SHOWN ON THIS PLAN.
4. THE INFORMATION ON THIS PLAN IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTORS TO INSTALL WATER POLLUTION CONTROL DEVICES AT GENERAL LOCATIONS THROUGHOUT THE SITE. THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE NARRATIVE SECTION OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
5. FIELD AND WEATHER CONDITIONS MAY NECESSITATE MODIFICATIONS TO THESE DRAWINGS.
6. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR PROTECTING THE STORMWATER FROM CONTAMINATION, WITH CONFORMING WITH THE CONSTRUCTION GENERAL PERMIT (CGP), AND EROSION CONTROL DEVICES AS NEEDED TO PROTECT THE STORMWATER.

LEGEND

- TEMPORARY SILT FENCE
- STORM DRAIN INLET PROTECTION
- WM-8, CONCRETE WASHOUT AREA
- CONSTRUCTION STAGING, MATERIALS STORAGE, AND VEHICLE/EQUIPMENT STORAGE, CLEANING, & MAINTENANCE AREA.
- RECYCLABLE MATERIALS STOCKPILE AREA.
- STABILIZED CONSTRUCTION ENTRANCE
- WM-9, PORTABLE TOILETS.

PRELIMINARY

STORM WATER POLLUTION PREVENTION CONSTRUCTION NOTES:

1. CONSTRUCTION STAGING, MATERIALS STORAGE, AND VEHICLE/EQUIPMENT STORAGE, CLEANING, & MAINTENANCE.
2. SE-10, CONSTRUCT STORM DRAIN INLET PROTECT PER DETAIL ON SHEET C5.3.
3. INSTALL TEMPORARY SILT FENCE PER DETAIL ON SHEET C5.3.
4. WM-8, CONCRETE WASHOUT AREA PER DETAIL ON SHEET C5.3.
5. WM-9, PORTABLE TOILETS.
6. RECYCLABLE MATERIALS STOCKPILE AREA.

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SHARATCHANDRA BANDUGULA
No. 82491
CIVIL
STATE OF CALIFORNIA

GRADING & IMPROVEMENT PLANS

GOKULAM LOT A

EROSION CONTROL PLAN

COUNTY OF SANTA CLARA CALIFORNIA

C5.1
OF
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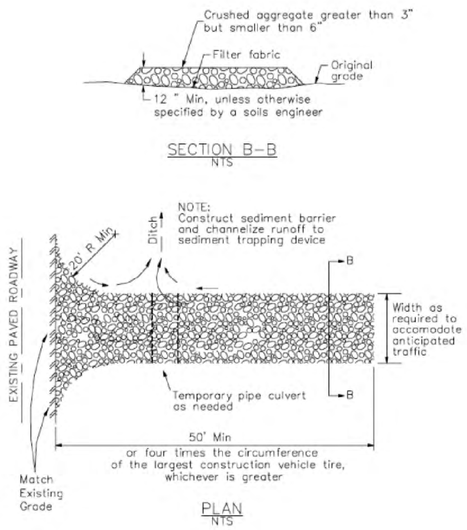
GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL

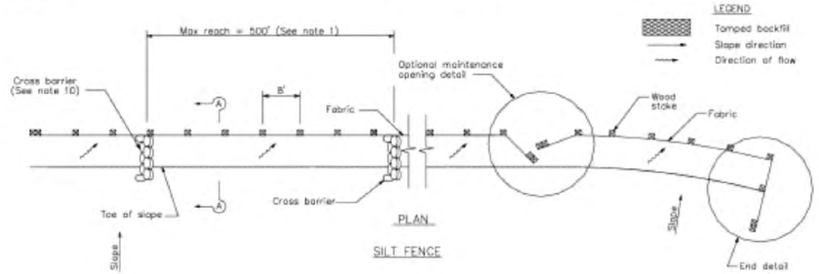
3 Stabilized Construction Entrance/Exit

CASQA Detail TC-1



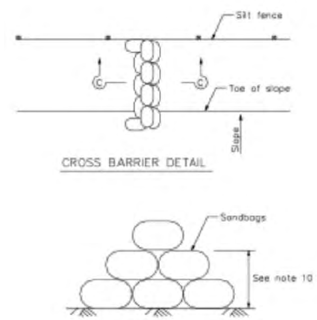
1 Silt Fence

CASQA Detail SE-1



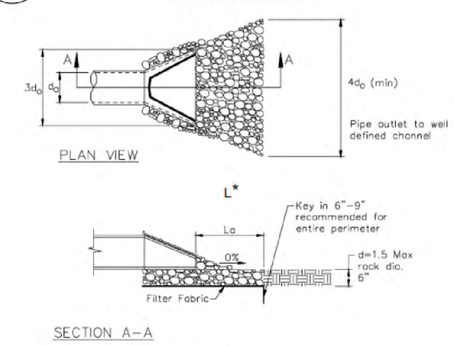
NOTES

1. Construct the length of each reach so that the change in base elevation along the reach does not exceed 1/3 the height of the linear barrier, in no case shall the reach length exceed 500'.
2. The last 8'–0" of fence shall be turned up slope.
3. Stake dimensions are nominal.
4. Dimension may vary to fit field condition.
5. Stakes shall be spaced at 8'–0" maximum and shall be positioned on downstream side of fence.
6. Stakes to overlap and fence fabric to fold around each stake one full turn. Secure fabric to stake with 4 staples.
7. Stakes shall be driven tightly together to prevent potential flow–through of sediment at joint. The tops of the stakes shall be secured with wire.
8. For end stake, fence fabric shall be folded around two stakes one full turn and secured with 4 staples.
9. Minimum 4 staples per stake. Dimensions shown are typical.
10. Cross barriers shall be a minimum of 1/3 and a maximum of 1/2 the height of the linear barrier.
11. Maintenance openings shall be constructed in a manner to ensure sediment remains behind silt fence.
12. Joining sections shall not be placed at sump locations.
13. Sandbag rows and layers shall be offset to eliminate gaps.



4 Velocity Dissipation Devices

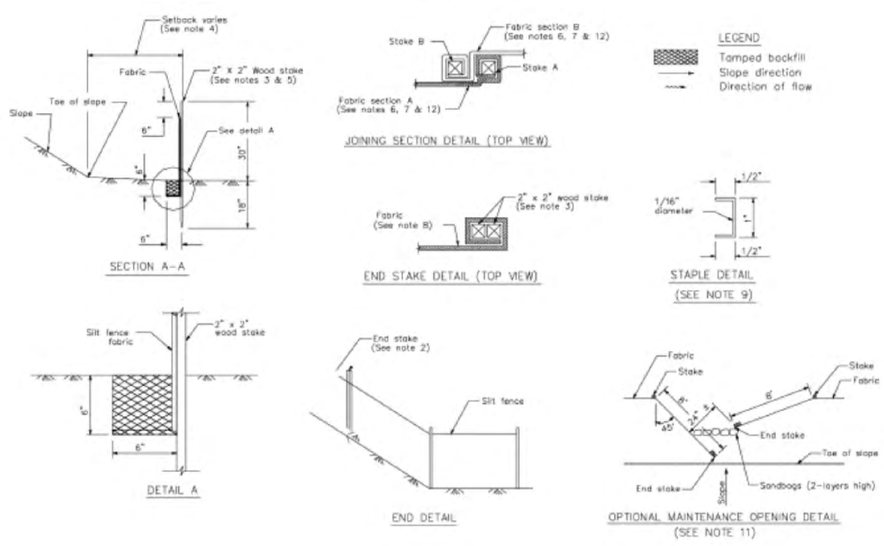
CASQA Detail EC-10



* Length per ABAG Design Standards

2 Silt Fence

CASQA Detail SE-1



Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003.
Available from www.cabmphandbooks.com.

STANDARD BEST MANAGEMENT PRACTICE NOTES

1. Solid and Demolition Waste Management: Provide designated waste collection areas and containers on site away from streets, gutters, storm drains, and waterways, and arrange for regular disposal. Waste containers must be watertight and covered at all times except when waste is deposited. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C3) or latest.
2. Hazardous Waste Management: Provide proper handling and disposal of hazardous wastes by a licensed hazardous waste material hauler. Hazardous wastes shall be stored and properly labeled in sealed containers constructed of suitable materials. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-5 to C-6) or latest.
3. Spill Prevention and Control: Provide proper storage areas for liquid and solid materials, including chemicals and hazardous substances, away from streets, gutters, storm drains, and waterways. Spill control materials must be kept on site where readily accessible. Spills must be cleaned up immediately and contaminated soil disposed properly. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-7 to C-8, C-13 to C-14) or latest.
4. Vehicle and Construction Equipment Service and Storage: An area shall be designated for the maintenance, where on-site maintenance is required, and storage of equipment that is protected from stormwater run-on and runoff. Measures shall be provided to capture any waste oils, lubricants, or other potential pollutants and these wastes shall be properly disposed of off site. Fueling and major maintenance/repair, and washing shall be conducted off-site whenever feasible. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C9) or latest.
5. Material Delivery, Handling and Storage: In general, materials should not be stockpiled on site. Where temporary stockpiles are necessary and approved by the County, they shall be covered with secured plastic sheeting or tarp and located in designated areas near construction entrances and away from drainage paths and waterways. Barriers shall be provided around storage areas where materials are potentially in contact with runoff. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-11 to C-12) or latest.
6. Handling and Disposal of Concrete and Cement: When concrete trucks and equipment are washed on-site, concrete wastewater shall be contained in designated containers or in a temporary lined and watertight pit where wasted concrete can harden for later removal. If possible have concrete contractor remove concrete wash water from site. In no case shall fresh concrete be washed into the road right-of-way. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-15 to C-16) or latest.
7. Pavement Construction Management: Prevent or reduce the discharge of pollutants from paving operations, using measures to prevent run-on and runoff pollution and properly disposing of wastes. Avoid paving in the wet season and reschedule paving when rain is in the forecast. Residue from saw-cutting shall be vacuumed for proper disposal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-17 to C-18) or latest.
8. Contaminated Soil and Water Management: Inspections to identify contaminated soils should occur prior to construction and at regular intervals during construction. Remediating contaminated soil should occur promptly after identification and be specific to the contaminant identified, which may include hazardous waste removal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-19 to C-20) or latest.
9. Sanitary/Septic Water Management: Temporary sanitary facilities should be located away from drainage paths, waterways, and traffic areas. Only licensed sanitary and septic waste haulers should be used. Secondary containment should be provided for all sanitary facilities. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C-21) or latest.
10. Inspection & Maintenance: Areas of material and equipment storage sites and temporary sanitary facilities must be inspected weekly. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.

STANDARD EROSION CONTROL NOTES

1. Sediment Control Management:

   Tracking Prevention & Clean Up: Activities shall be organized and measures taken as needed to prevent or minimize tracking of soil onto the public street system. A gravel or proprietary device construction entrance/exit is required for all sites. Clean up of tracked material shall be provided by means of a street sweeper prior to an approaching rain event, or at least once at the end of each workday that material is tracked, or, more frequently as determined by the County Inspector. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-31 to B-33) or latest.

   Storm Drain Inlet and Catch Basin Inlet Protection: All inlets within the vicinity of the project and within the project limits shall be protected with gravel bags placed around inlets or other inlet protection. At locations where exposed soils are present, staked fiber roles or staked silt fences can be used. Inlet filters are not allowed due to clogging and subsequent flooding. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-49 to B-51) or latest.

   Storm Water Runoff: No storm water runoff shall be allowed to drain in to the existing and/or proposed underground storm drain system or other above ground watercourses until appropriate erosion control measures are fully installed.

   Dust Control: The contractor shall provide dust control in graded areas as required by providing wet suppression or chemical stabilization of exposed soils, providing for rapid clean up of sediments deposited on paved roads, furnishing construction road entrances and vehicle wash down areas, and limiting the amount of areas disturbed by clearing and earth moving operations by scheduling these activities in phases.

   Stockpiling: Excavated soils shall not be placed in streets or on paved areas. Borrow and temporary stockpiles shall be protected with appropriate erosion control measures(tarps, straw bales, silt fences, ect.) to ensure silt does not leave the site or enter the storm drain system or neighboring watercourse.
2. Erosion Control: During the rainy season, all disturbed areas must include an effective combination of erosion and sediment control. It is required that temporary erosion control measures are applied to all disturbed soil areas prior to a rain event. During the non-rainy season, erosion control measures must be applied sufficient to control wind erosion at the site.
3. Inspection & Maintenance: Disturbed areas of the Project's site, locations where vehicles enter or exit the site, and all erosion and sediment controls that are identified as part of the Erosion Control Plans must be inspected by the Contractor before, during, and after storm events, and at least weekly during seasonal wet periods. Problem areas shall be identified and appropriate additional and/ or alternative control measures implemented immediately, within 24 hours of the problem being identified.
4. Project Completion: Prior to project completion and signoff by the County Inspector, all disturbed areas shall be reseeded, planted, or landscaped to minimize the potential for erosion on the subject site.
5. It shall be the Owner's/Contractor's responsibility to maintain control of the entire construction operation and to keep the entire site in compliance with the erosion control plan.
6. Erosion and sediment control best management practices shall be operable year round or until vegetation is fully established on landscaped surfaces.

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GOKULAM LOT A — GRADING & IMPROVEMENT PLANS 5/10/2024 — 2ND SUBMITTAL

GOKULAM LOT A
GRADING & IMPROVEMENT PLANS
COUNTY OF SANTA CLARA

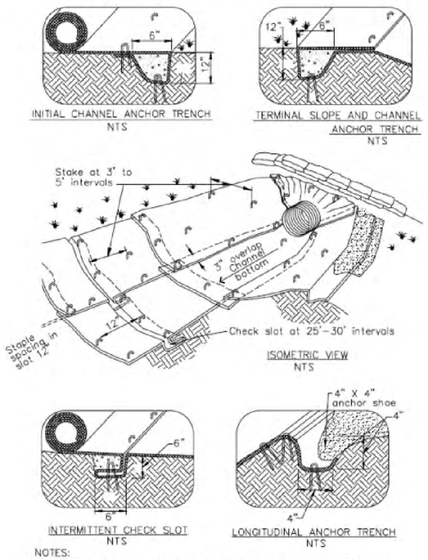
EROSION CONTROL PLAN

CALIFORNIA

C5.2 OF XX

7 Geotextiles and Mats

CASQA Detail EC-7

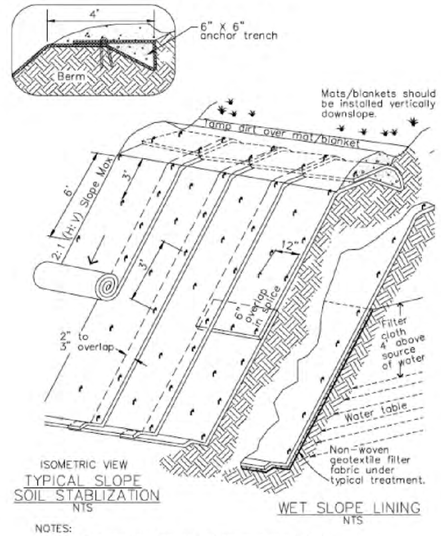


NOTES:
1. Check slots to be constructed per manufacturers specifications.
2. Staking or stapling layout per manufacturers specifications.
3. Install per manufacturer's recommendations

TYPICAL INSTALLATION DETAIL

5 Geotextiles and Mats

CASQA Detail EC-7

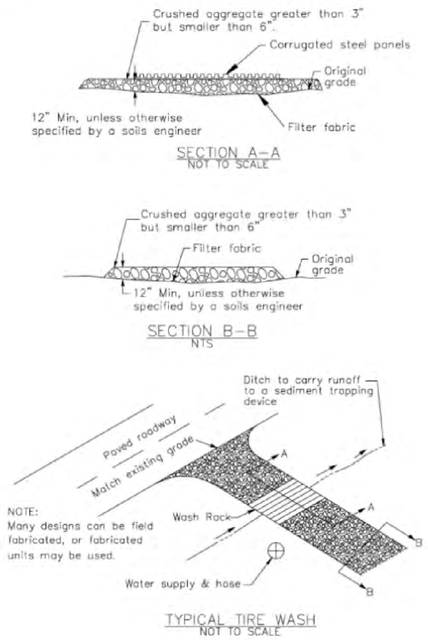


NOTES:
1. Slope surface shall be free of rocks, clods, sticks and grass. Mats/blankets shall have good soil contact.
2. Lay blankets loosely and stake or staple to maintain direct contact with the soil. Do not stretch.
3. Install per manufacturer's recommendations

TYPICAL INSTALLATION DETAIL

3 Entrance/Outlet Tire Wash

CASQA Detail TC-3

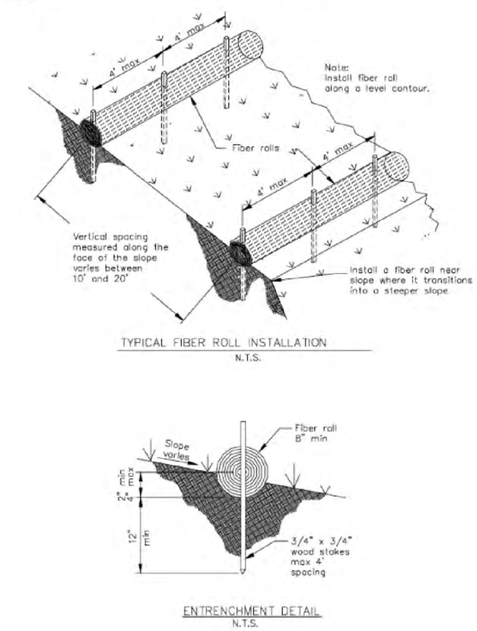


NOTE:
Many designs can be field fabricated, or fabricated units may be used.

TYPICAL TIRE WASH
NOT TO SCALE

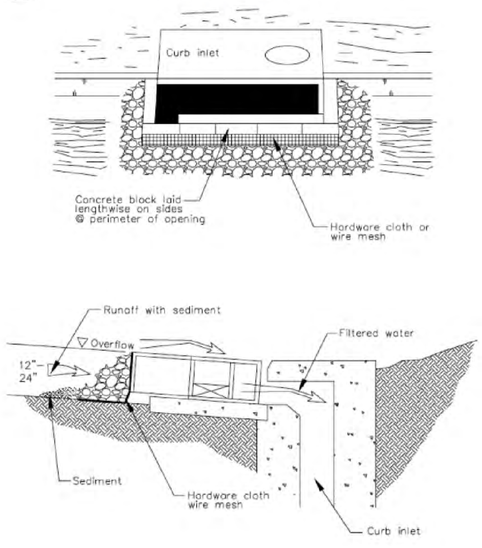
1 Fiber Rolls

CASQA Detail SE-5



8 Storm Drain Inlet Protection

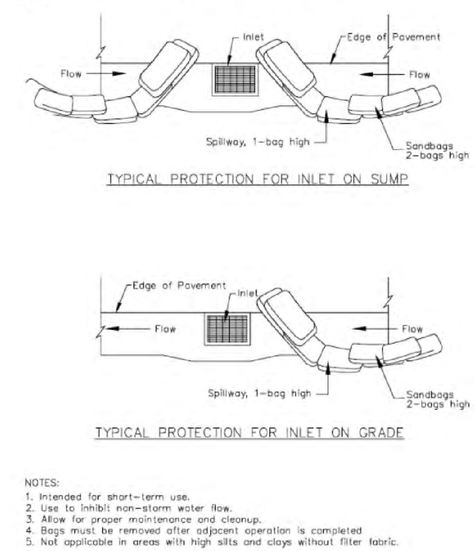
CASQA Detail SE-10



DI PROTECTION – TYPE 4
NOT TO SCALE

6 Storm Drain Inlet Protection

CASQA Detail SE-10

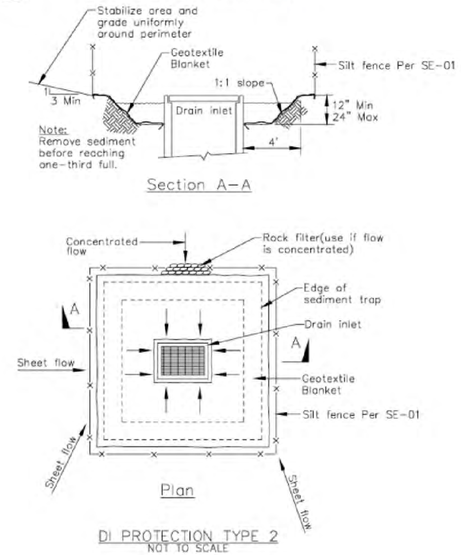


NOTES:
1. Intended for short-term use.
2. Use to inhibit non-storm water flow.
3. Allow for proper maintenance and cleanup.
4. Bags must be removed after adjacent operation is completed
5. Not applicable in areas with high silts and clays without filter fabric.

DI PROTECTION TYPE 3
NOT TO SCALE

4 Storm Drain Inlet Protection

CASQA Detail SE-10

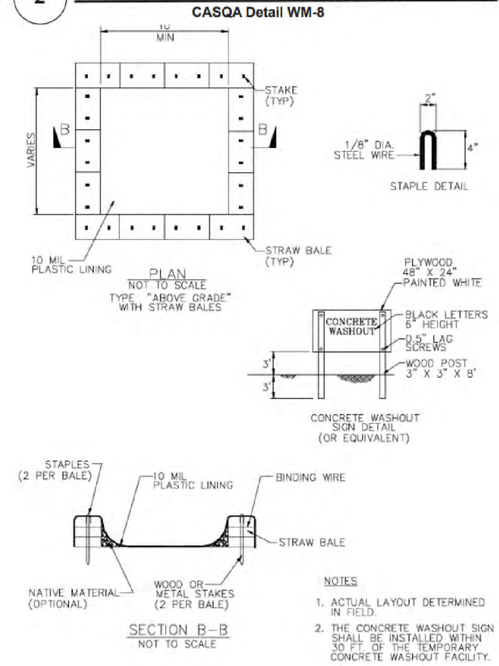


DI PROTECTION TYPE 2
NOT TO SCALE

Notes
1. For use in cleared and grubbed and in graded areas.
2. Shape basin so that longest inflow area faces longest length of trap.
3. For concentrated flows, shape basin in 2:1 ratio with length oriented towards direction of flow.

2 Concrete Waste Management

CASQA Detail WM-8



NOTES
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003.
Available from www.cabmphandbooks.com.

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REGISTERED PROFESSIONAL ENGINEER SHAR PRAKASH BANDUGULA No. 82491 CIVIL STATE OF CALIFORNIA

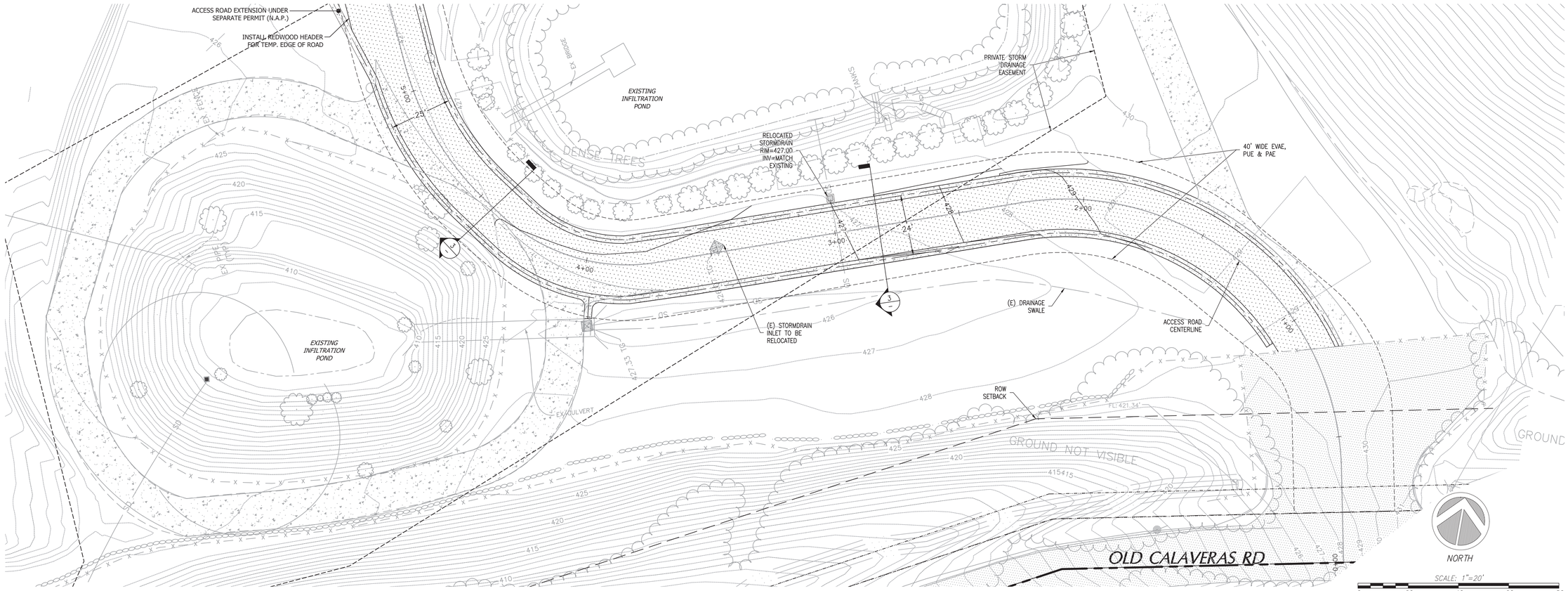
GOKULAM LOT A
GRADING & IMPROVEMENT PLANS
COUNTY OF SANTA CLARA

EROSION CONTROL PLAN

CALIFORNIA

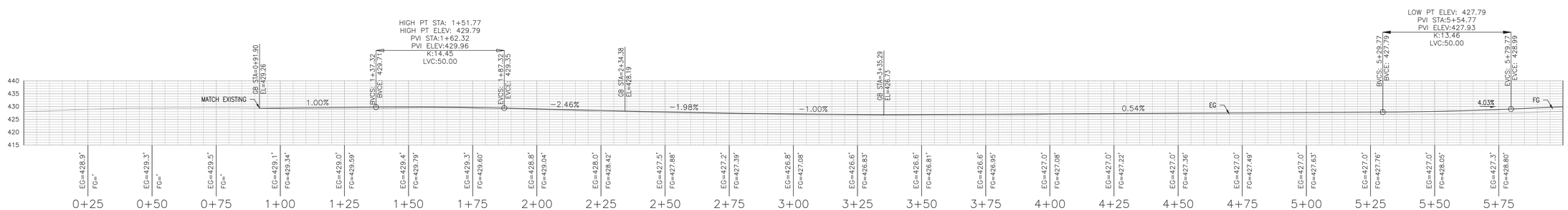
C5.3
OF
XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



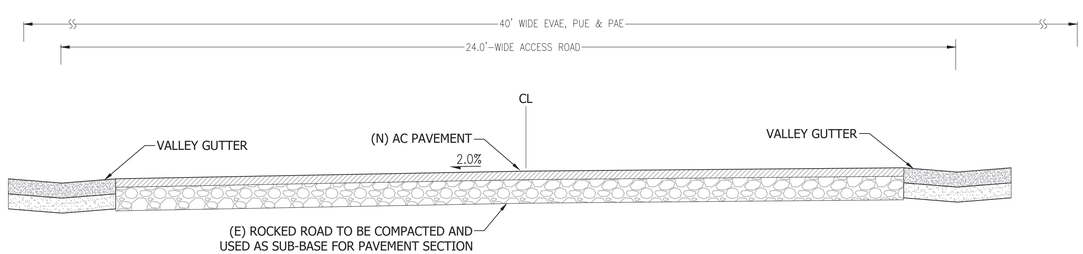
1 EXISITNG ACCESS ROAD PLAN

Scale: 1:20



2 ACCESS ROAD PROFILE - STA. 0+00 TO 6+00

Scale: 1:20



3 22'-WIDE ACCESS ROAD SECTION

Scale: 1":2'

REVISIONS	BY

EXISITNG ACCESS ROAD PLAN & PROFILES

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

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GOKULAM, LLC.
LOT B – DESIGN REVIEW
2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

Date:	06/15/2023
Scale:	1" = 20'
Drawn:	DD/ESM
Job:	3007.05
Sheet:	C6.1

Drawing: Z:\Drawn\CAD\3007.05 - JHF - Lot B Building Permit\Design\CAD\Sheets\3007.02 - C1.1 - EX PROFILES, SECTIONS\ ACCESS ROAD.dwg Layout: C1.1 - EX ACCESS RD PMP Last Saved: Thu Jun 15, 2023 - 4:39pm By: Dave
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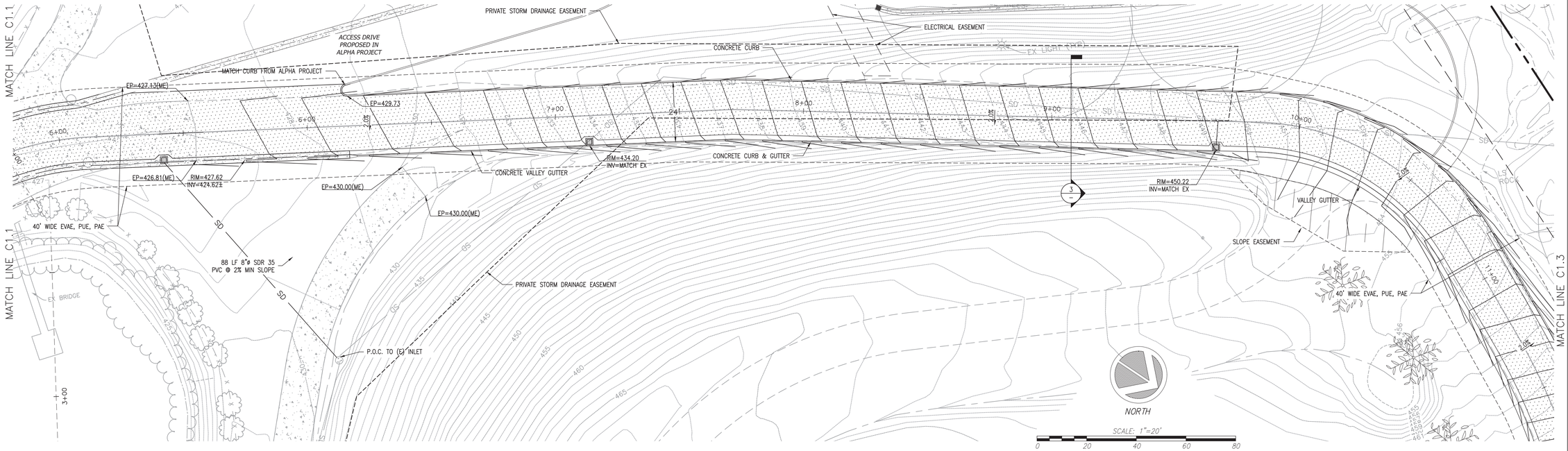

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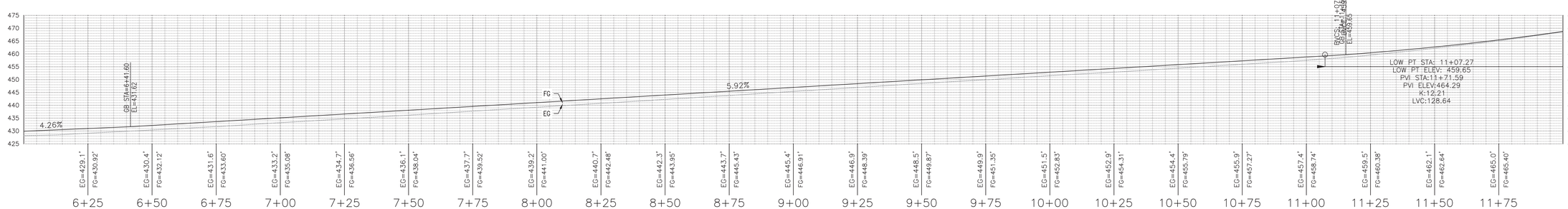
Scale: 1:20



2 ACCESS ROAD PROFILE - STA. 6+00 TO 12+00

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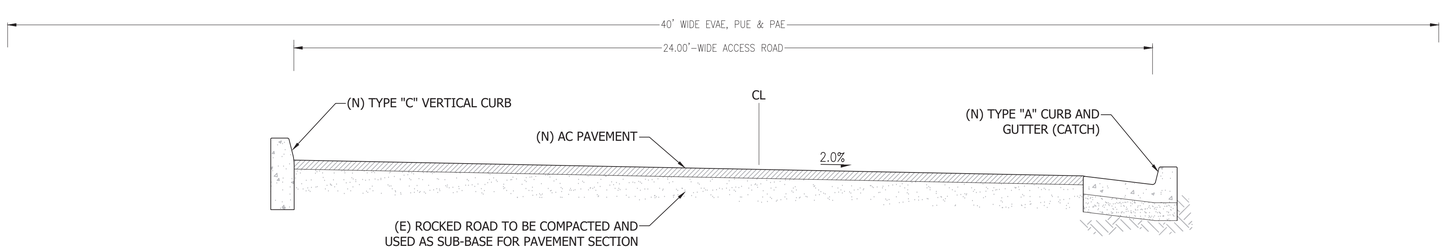

3 24'-WIDE ACCESS ROAD SECTION

Scale: 1":2'

REVISIONS	BY

ACCESS ROAD PLAN & PROFILES

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

Date:	06/15/2023
Scale:	1" = 20'
Drawn:	DD/ESM
Job:	3007.05
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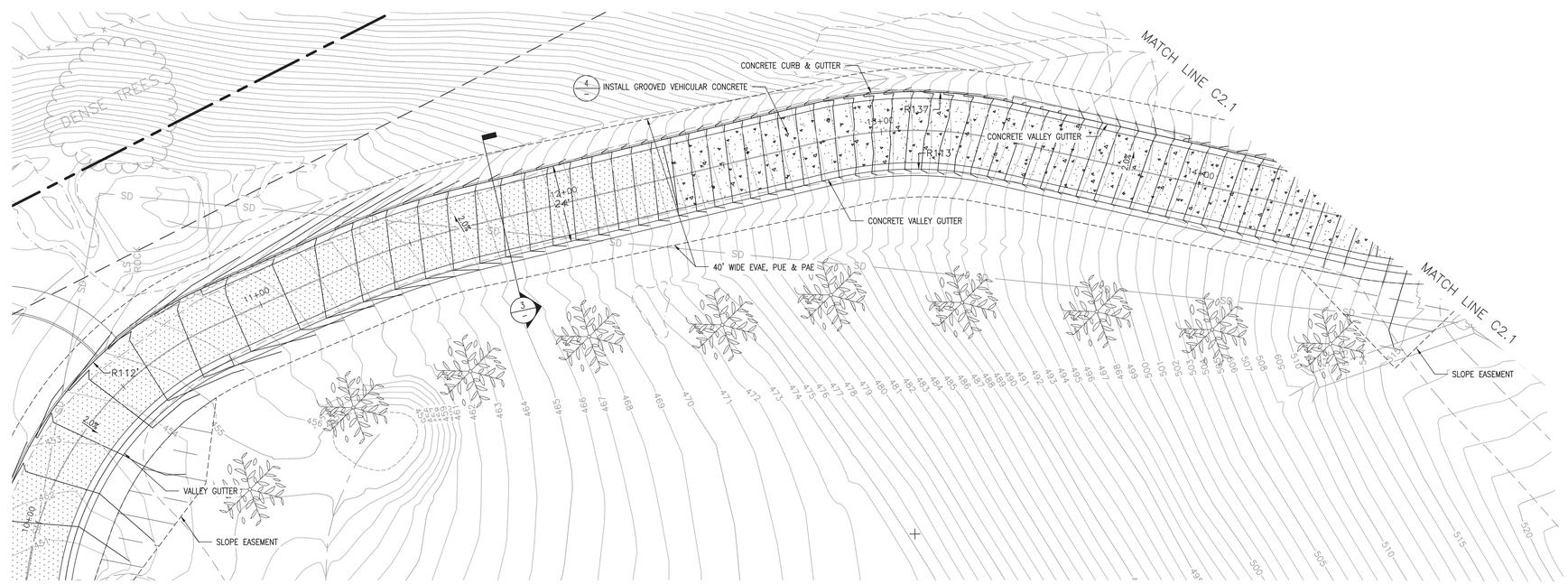
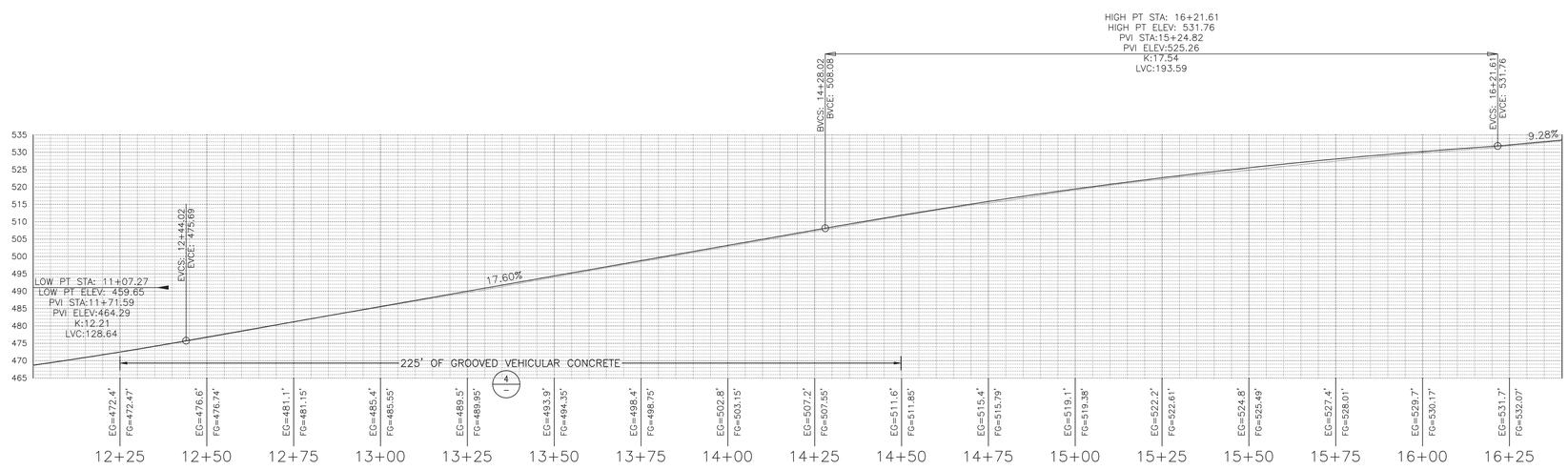


1 PROPOSED ACCESS ROAD PLAN

Scale: 1:20



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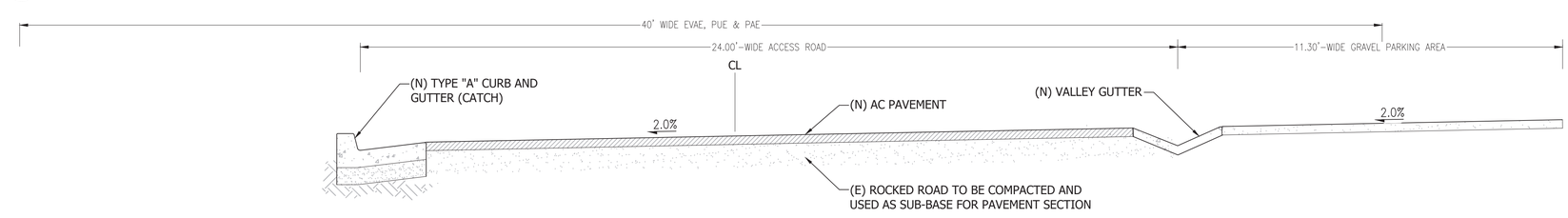
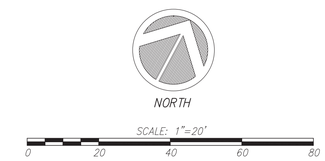


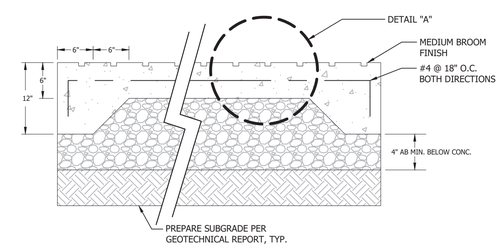
3 24'-WIDE ACCESS ROAD SECTION

Scale: 1":2'



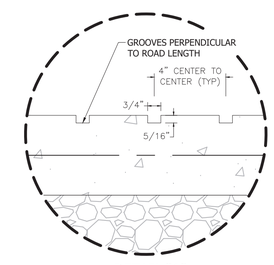
TREE INSTALLATION NOTES:

TYPE:	CITRUS SINENSIS 'CARA CARA' [NAVEL ORANGE]
MATURE HEIGHT:	15-20 FEET
SIZE:	2' x 2' BOX



NOTE:

1. TYPE OF CONCRETE: CLASS A
2. MINIMUM 6" CLASS 2 AB, COMPACTED TO 95%.
3. SEE LANDSCAPE PLAN FOR LOCATION OF SCORING AND EXPANSION JOINTS.
4. DOWEL WITH #4 BARS, 12" LONG, AT 24" ON CENTERS, EMBEDDED 4" WITH EPOXY IN EDGE OF EXISTING CONCRETE.
5. DOWELING & REINFORCING TO BE PROVIDED AT JOINTS.



DETAIL "A"

4 VEHICULAR CONCRETE SECTION W/ GROOVES

Scale: NTS

REVISIONS	BY

ACCESS ROAD PLAN & PROFILES

REGISTERED PROFESSIONAL ENGINEER
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GOKULAM, LLC.
LOT B – DESIGN REVIEW
2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029–34–004

Date:	06/15/2023
Scale:	1" = 20'
Drawn:	DD/ESM
Job:	3007.05
Sheet:	C6.3

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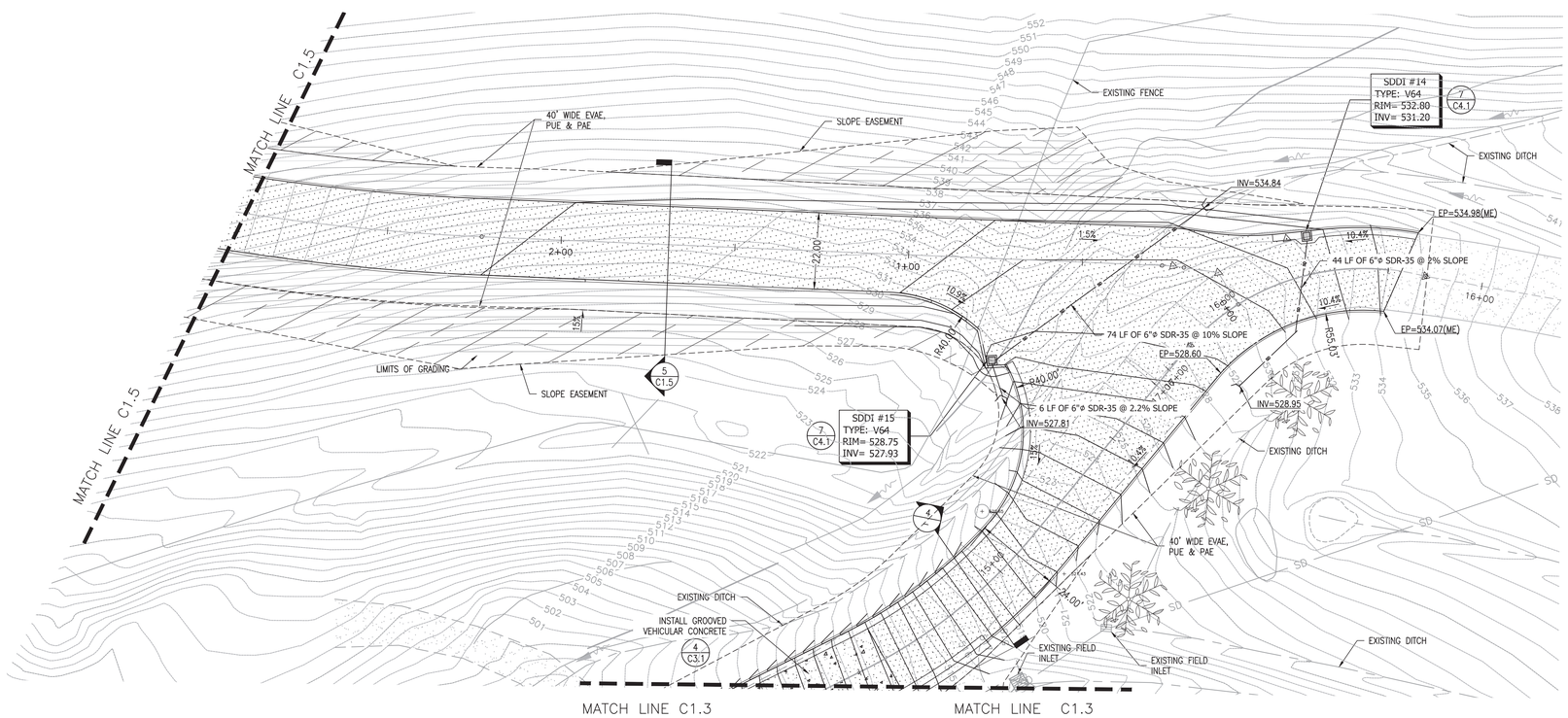
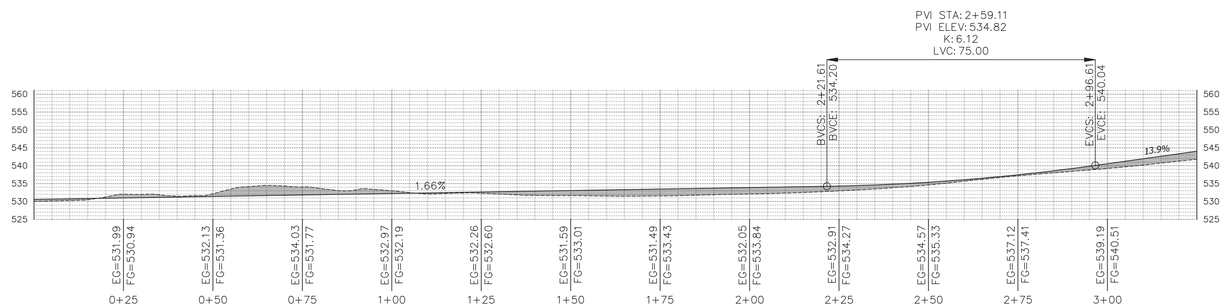


1 ENLARGED SITE PLAN - ACCESS ROAD

Scale: 1":20'



2 MAIN ROAD PROFILE - STA. 0+00 TO 3+25

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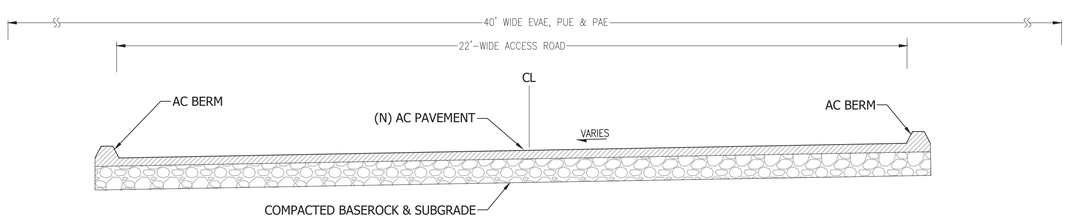
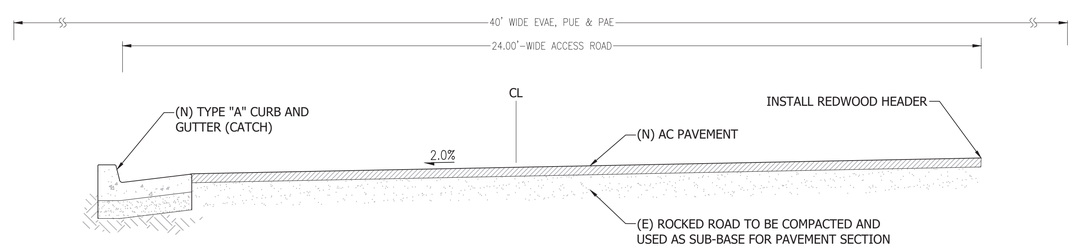


3 22'-WIDE ACCESS ROAD SECTION

Scale: 1":2'



4 24'-WIDE ACCESS ROAD SECTION

Scale: 1":2'

LEGEND

- (N) AC (1/C4.1)
- PROPERTY LINE
- SD (N) STORM DRAIN PIPE
- (E) TREE
- PROPOSED CONTOUR
- (N) RETAINING WALL
- DRAINAGE DIRECTIONAL ARROW

TREE INSTALLATION NOTES:

TYPE:	CITRUS SINENSIS 'CARA CARA' [NAVEL ORANGE]
MATURE HEIGHT:	15-20 FEET
SIZE:	2' x 2' BOX

NORTH

SCALE: 1"=20'

0 20 40 60 80

REVISIONS	BY

ENLARGED SITE PLAN

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
Exp. 6/30/23
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GOKULAM, LLC.
LOT B – DESIGN REVIEW
2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

Date:	06/15/2023
Scale:	1" = 20'
Drawn:	DD/ESM
Job:	3007.05
Sheet:	C6.4
	Of 64 Sheets

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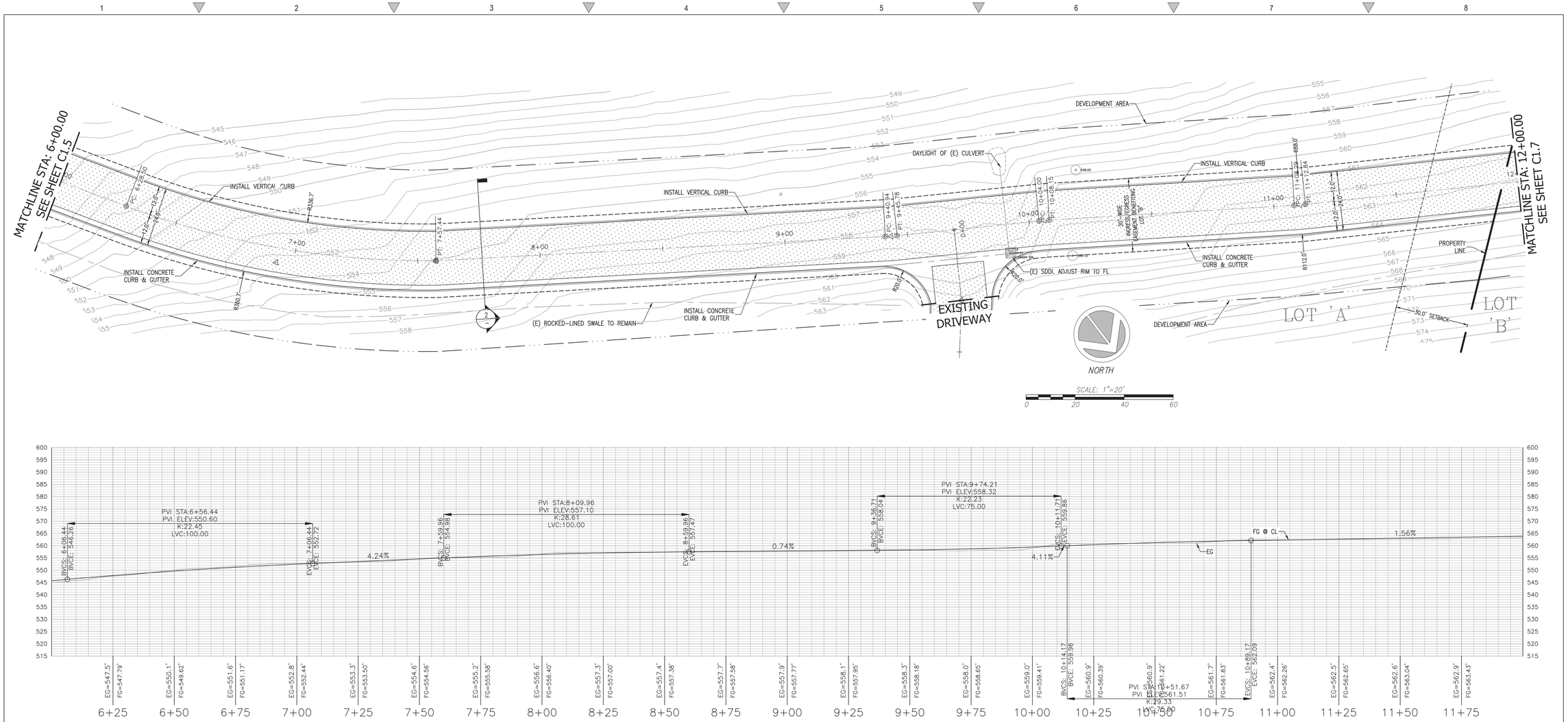

1 LOT B ROAD - STA. 6+00.00 - 12+00.00

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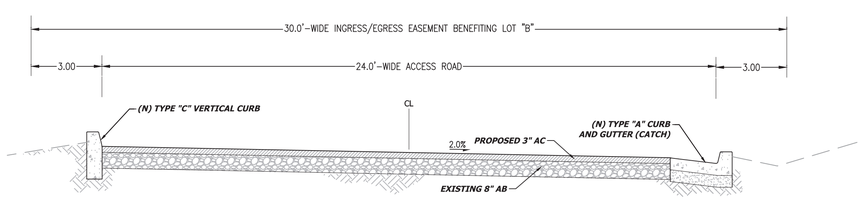

2 ROAD SECTION

Scale: NTS

USA NORTH 811 Call 811 Before You Dig

REVISIONS	BY

LOT B ROAD
PLAN AND PROFILE
STA.:6+00.00–12+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:	C6.5

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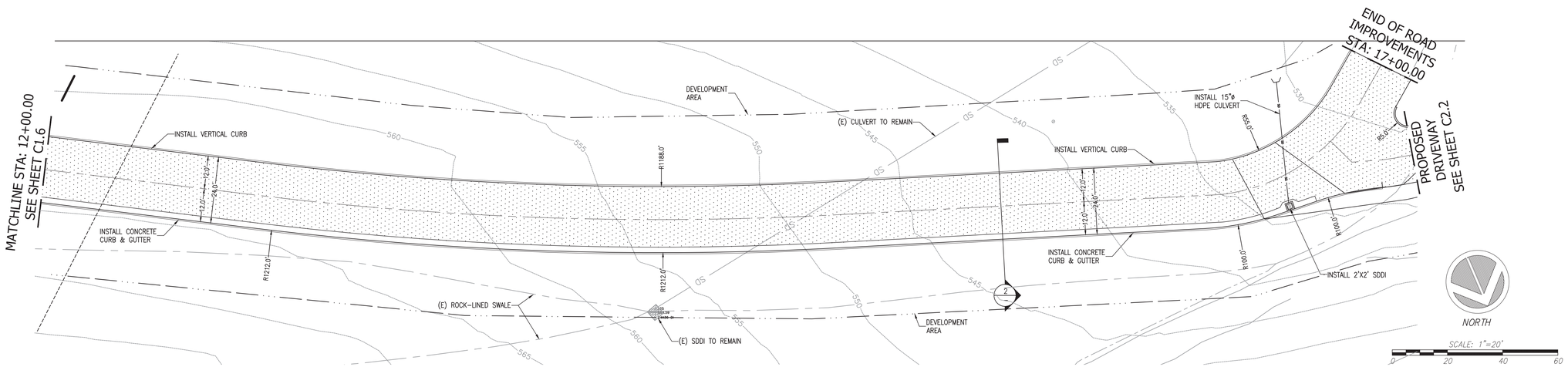

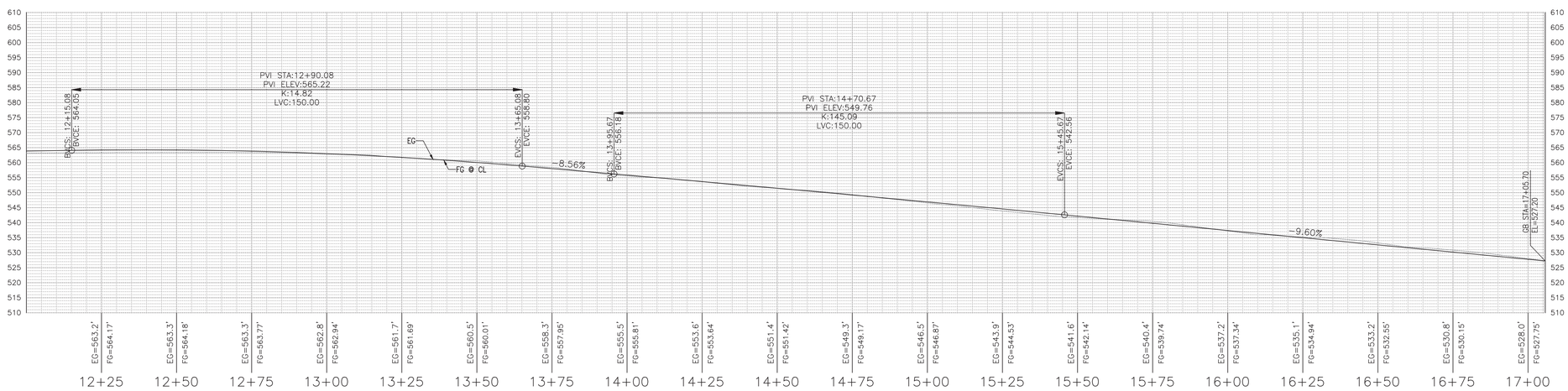

1 LOT B ROAD - STA. 12+00.00 - 17+05.72

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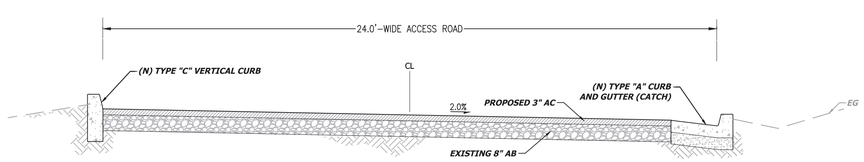

2 ROAD SECTION

Scale: NTS

USA NORTH 811 Call 811 Before You Dig

REVISIONS	BY

LOT B ROAD
PLAN AND PROFILE
STA.:17+05.72-12+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:	C6.6

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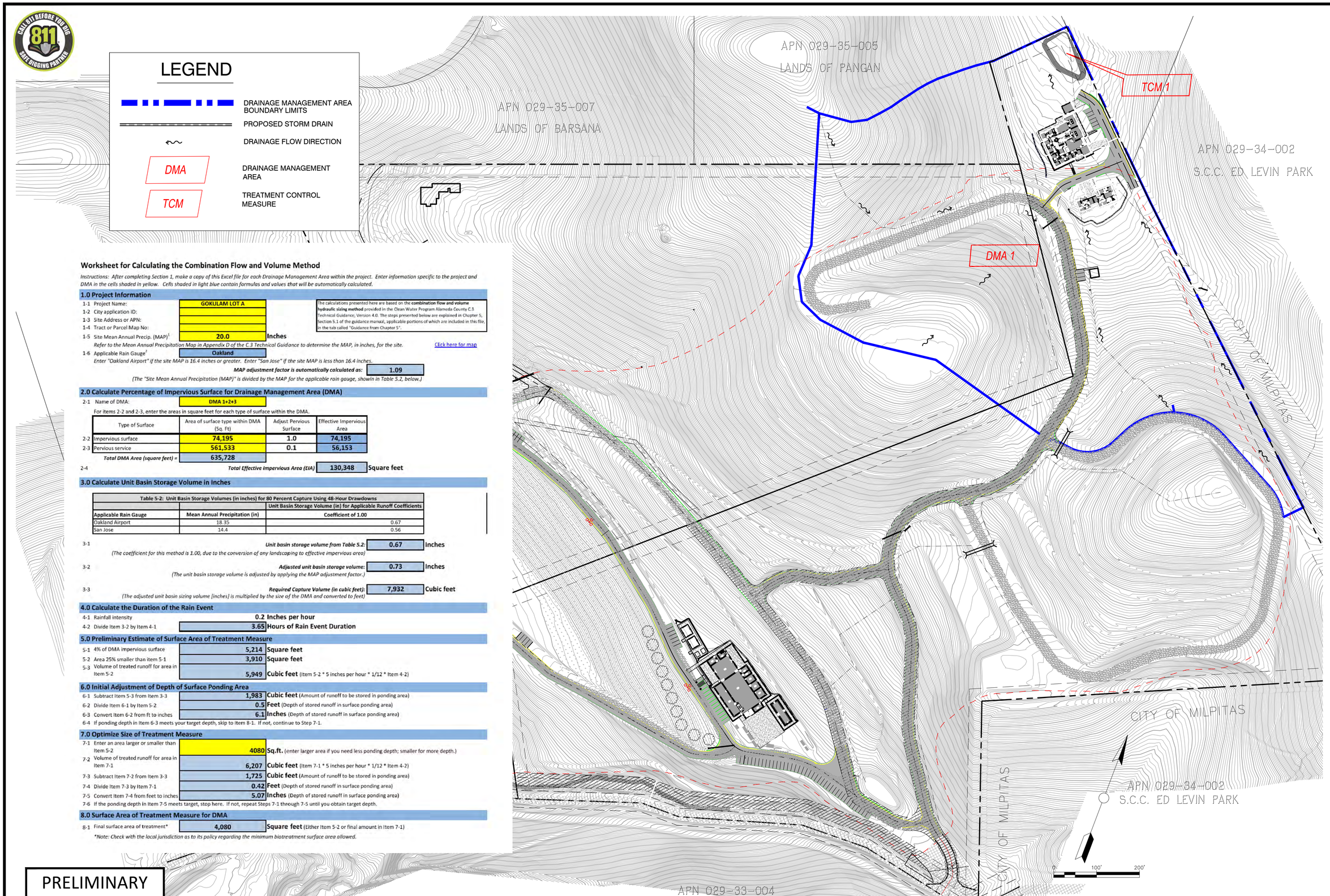


Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

1-1	Project Name:	GOKULAM LOT A	
1-2	City application ID:		
1-3	Site Address or APN:		
1-4	Tract or Parcel Map No:		
1-5	Site Mean Annual Precip. (MAP)[1]	20.0	Inches
1-6	Applicable Rain Gauge[2]	Oakland	

The calculations presented here are based on the **combination flow and volume hydraulic sizing method** provided in the Clean Water Program Alameda County C.3 Technical Guidance; Version 4.0. The steps presented below are explained in Chapter 5, Section 5.1 of the guidance manual, applicable portions of which are included in this file, in the tab called "Guidance from Chapter 5".

Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. Click here for map

Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.

MAP adjustment factor is automatically calculated as: 1.09

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2-1 Name of DMA: DMA 1+2+3

For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

	Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2	Impervious surface	74,195	1.0	74,195
2-3	Pervious service	561,533	0.1	56,153
	Total DMA Area (square feet) =	635,728		

2-4 ***Total Effective Impervious Area (EIA)*** 130,348 **Square feet**

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5-2: Unit Basin Storage Volumes (in inches) for 80 Percent Capture Using 48-Hour Drawdowns		
		Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
Applicable Rain Gauge	**Mean Annual Precipitation (in)**	**Coefficient of 1.00**
Oakland Airport	18.35	0.67
San Jose	14.4	0.56

3-1 ***Unit basin storage volume from Table 5.2:*** 0.67 **Inches**

(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

3-2 ***Adjusted unit basin storage volume:*** 0.73 **Inches**

(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

3-3 ***Required Capture Volume (in cubic feet):*** 7,932 **Cubic feet**

(The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

4-1	Rainfall intensity	0.2	Inches per hour
4-2	Divide Item 3-2 by Item 4-1	3.65	Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

5-1	4% of DMA impervious surface	5,214	Square feet
5-2	Area 25% smaller than item 5-1	3,910	Square feet
5-3	Volume of treated runoff for area in Item 5-2	5,949	Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

6-1	Subtract Item 5-3 from Item 3-3	1,983	Cubic feet (Amount of runoff to be stored in ponding area)
6-2	Divide Item 6-1 by Item 5-2	0.5	Feet (Depth of stored runoff in surface ponding area)
6-3	Convert Item 6-2 from ft to inches	6.1	Inches (Depth of stored runoff in surface ponding area)

6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

7-1	Enter an area larger or smaller than Item 5-2	4080	Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
7-2	Volume of treated runoff for area in Item 7-1	6,207	Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
7-3	Subtract Item 7-2 from Item 3-3	1,725	Cubic feet (Amount of runoff to be stored in ponding area)
7-4	Divide Item 7-3 by Item 7-1	0.42	Feet (Depth of stored runoff in surface ponding area)
7-5	Convert Item 7-4 from feet to inches	5.07	Inches (Depth of stored runoff in surface ponding area)

7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth.

8.0 Surface Area of Treatment Measure for DMA

8-1	Final surface area of treatment*	4,080	Square feet (Either Item 5-2 or final amount in Item 7-1)

**Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.*

PRELIMINARY

BY	DATE	REVISIONS

NAVIS
design | build | manage
info@navisdbm.com

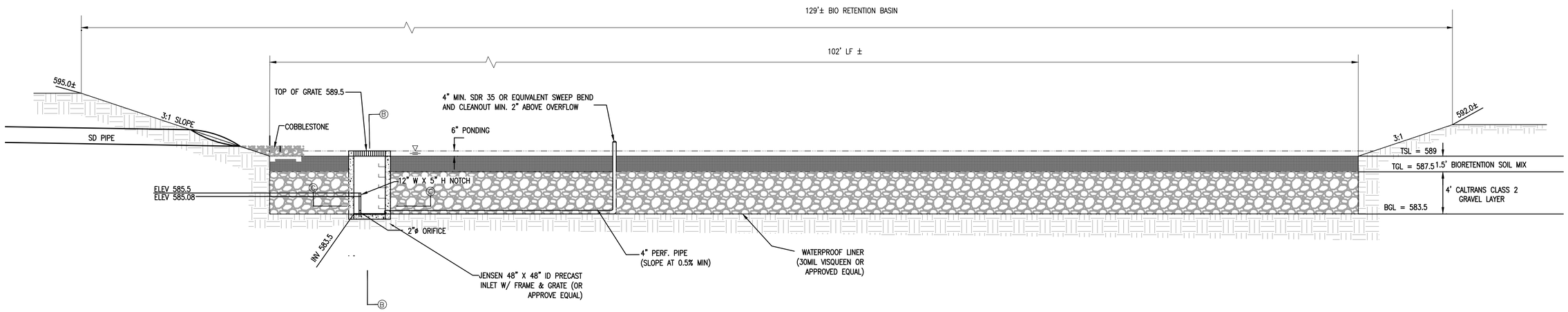
5/10/2024 DATE
KS, SB DRAWN BY
SB CHECKED BY

REGISTERED PROFESSIONAL ENGINEER SHARATCHANDRA BANDUGULA No. 82491 CIVIL STATE OF CALIFORNIA

GOKULAM LOT A
GRADING & IMPROVEMENT PLANS
STORMWATER CONTROL PLAN EXHIBIT
COUNTY OF SANTA CLARA
CALIFORNIA

C7.1 OF XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



MULTIPURPOSE BASIN #LOT A

NOT TO SCALE

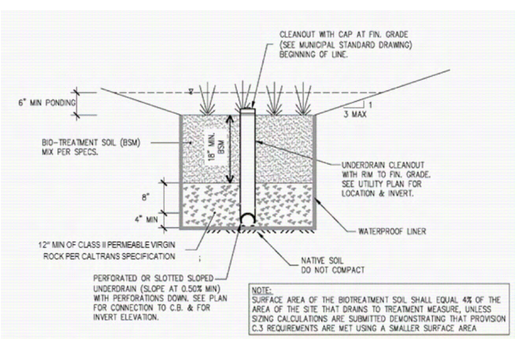
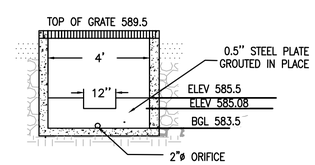


Figure 6-6: Cross section of lined bioretention area (Not to Scale)

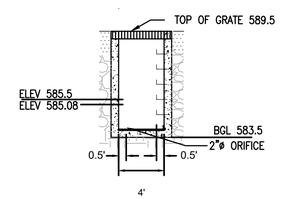
BIORETENTION BASIN DETAIL

NOT TO SCALE



SECTION B-B

NOT TO SCALE



SECTION C-C

NOT TO SCALE

PRELIMINARY

BY	DATE	REVISIONS

NAVIS
design | build | manage
info@navisdbm.com

5/10/2024 DATE
KS, SB DRAWN BY
SB CHECKED BY

REGISTERED PROFESSIONAL ENGINEER
SHARATCHANDRA BANDUGULA
No. 82491
CIVIL
STATE OF CALIFORNIA

GRADING & IMPROVEMENT PLANS
GOKULAM LOT A
STORMWATER BASIN CROSS SECTION
COUNTY OF SANTA CLARA
CALIFORNIA

C7.2
OF
XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL

TRIBUTARY TO (E) INFILTRATION BASIN	A	B	C	D	E	F	G	H	I	J	K	L	N	O	TOTAL
TOTAL AREA (Square Feet)	714,352	118,132	11,760	38,525	356,118	31,058	9,982	154,249	77,150	57,314	54,293	83,400	139,166	291,656	**2,137,656**
TOTAL AREA (Acres)	*16.399*	*2.712*	*0.270*	*0.884*	*8.175*	*0.713*	*0.229*	*3.541*	*1.771*	*1.316*	*1.258*	*1.915*	*3.195*	*6.696*	*49.184*
IMPERVIOUS AREAS	21,978	31,521	11,760	7,144	23,122	3,454	9,982	55,519	17,640	20,661	10,056	3,083	23,507	25,466	215,919
EXISTING ROOF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW ROOF	2,183	2,623	0	0	0	1,450	0	14,131	0	0	0	500	0	0	20,887
NEW GRAVEL	3,642	0	0	0	0	0	0	2,139	0	0	0	89	0	0	5,870
NEW AC / CONCRETE	288	28,897	0	7,144	23,122	2,004	0	39,249	0	19,147	2,663	2,495	10,765	12,267	125,009
EXISTING TO REMAIN ROCKED ROAD**	15,865	0	11,760	0	0	0	9,982	0	17,640	1,514	7,393	0	12,742	13,199	76,896
EQUIV. IMPERVIOUS AREA	14,175	31,521	7,056	7,144	23,122	3,454	5,989	54,663	10,584	20,055	7,099	3,048	18,410	20,186	195,555
**DECOMPOSED GRANITE & PERVIOUS PAVERS ASSUMED 60% IMPERVIOUS															
LANDSCAPE/NATURAL AREAS	692,374	86,612	0	31,381	332,996	27,604	0	98,730	59,510	36,653	44,737	80,317	115,659	266,190	1,490,915
RUNOFF COEFICIENT	0.26	0.41	0.51	0.36	0.29	0.32	0.51	0.46	0.31	0.46	0.31	0.27	0.32	0.29	0.25
TIME OF CONCENTRATION	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
RAINFALL INTENSITY (10YR)	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56
RUNOFF RATE FOR 10-YR (CFS)	***6.630***	***1.735***	***0.215***	***0.498***	***3.685***	***0.352***	***0.182***	***2.548***	***0.855***	***0.939***	***0.617***	***0.812***	***1.596***	***2.998***	***18.083***
(25 YR)	*7.757*	*2.030*	*0.251*	*0.583*	*4.311*	*0.412*	*0.213*	*2.981*	*1.000*	*1.098*	*0.721*	*0.950*	*1.867*	*3.507*	*22.580*
(50 YR)	*8.394*	*2.197*	*0.272*	*0.631*	*4.666*	*0.446*	*0.231*	*3.226*	*1.082*	*1.188*	*0.781*	*1.028*	*2.020*	*3.795*	*24.436*
(100 YR)	*9.138*	*2.391*	*0.296*	*0.687*	*5.079*	*0.486*	*0.251*	*3.512*	*1.178*	*1.294*	*0.850*	*1.119*	*2.200*	*4.131*	*26.601*

NOT TRIBUTARY TO (E) INFILTRATION BASIN	M	TOTAL
TOTAL AREA (Square Feet)	30,432	**30,432**
TOTAL AREA (Acres)	*0.699*	*0.699*
IMPERVIOUS AREAS	12,951	12,951
EXISTING ROOF	263	263
NEW ROOF	3,233	3,233
NEW GRAVEL	108	108
NEW AC / CONCRETE	9,346	9,346
EXISTING TO REMAIN ROCKED ROAD**	0	0
EQUIV. IMPERVIOUS AREA	12,907	12,907
**DECOMPOSED GRANITE & PERVIOUS PAVERS ASSUMED 60% IMPERVIOUS		
LANDSCAPE/NATURAL AREAS	17,481	17,481
RUNOFF COEFICIENT	0.50	0.50
TIME OF CONCENTRATION	15	15
RAINFALL INTENSITY (10YR)	1.56	1.56
RUNOFF RATE FOR 10-YR (CFS)	***0.549***	***0.549***
(25 YR)	*0.643*	*0.643*
(50 YR)	*0.696*	*0.696*
(100 YR)	*0.757*	*0.757*

LEGEND

- DMA IDENTIFICATION (X)
- DMA LIMIT (ONSITE ONLY)
- EXISTING CONTOUR (5' INTERVAL)
- DRAINAGE ARROW

X 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

REVISIONS	BY

STORM WATER MANAGEMENT PLAN

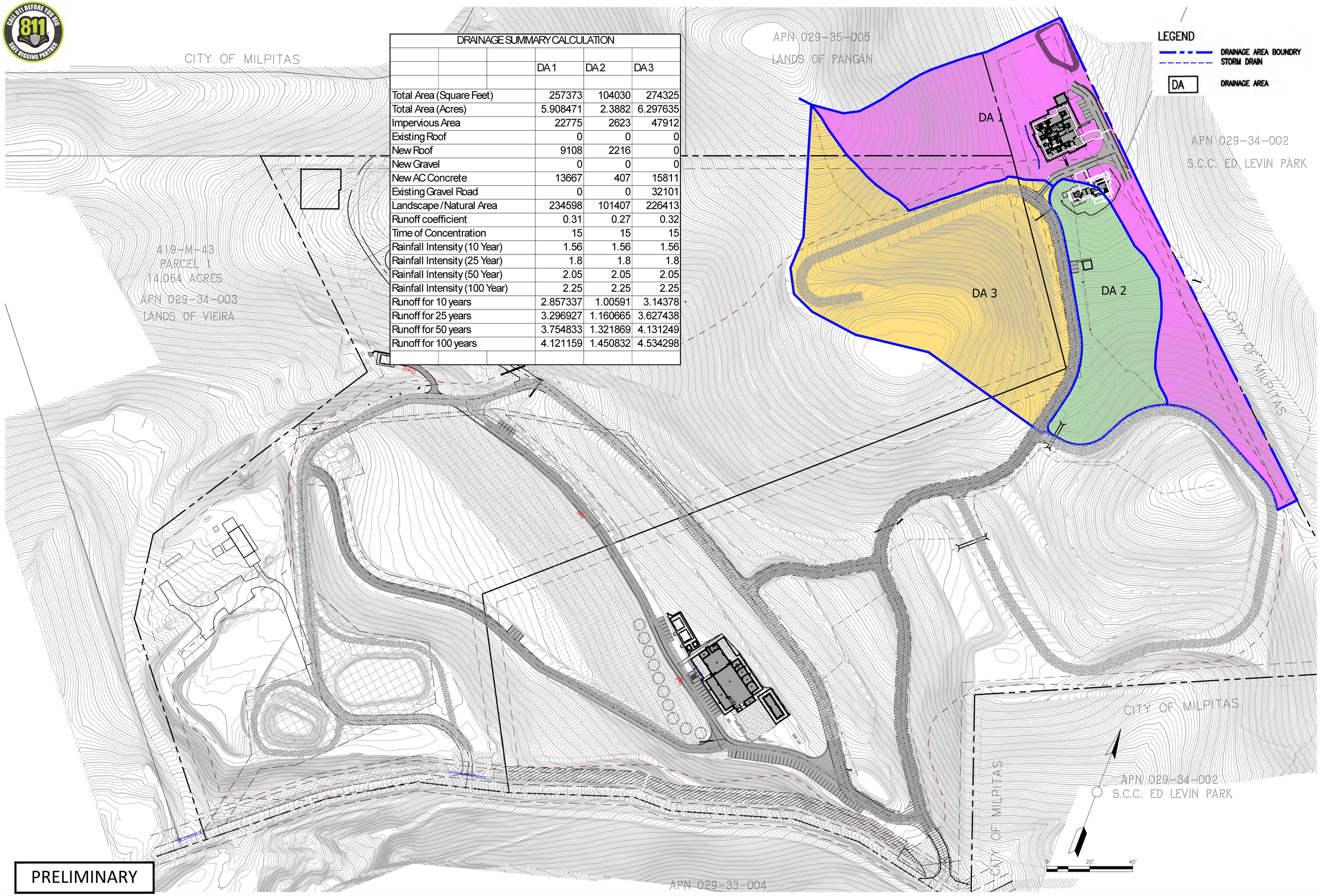
REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
Exp. 6/30/24
CIVIL
STATE OF CALIFORNIA

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

GOKULAM, LLC.
GRADING PERMIT FOR DEV 23-1588
2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

Date:	12/06/2023
Scale:	1" = 100'
Drawn:	DD
Job:	3007.06
Sheet:	C7.3

Drawing: Z:\Shared\CAD\3007.06 - MP - Grading Permit\Design\Exhibits\3007.06 - C6.2 - STORM WATER MANAGEMENT - w_BARN PROJECT.dwg Layout: C6.2 - STORMWATER MANAGEMENT PLAN Last Saved: Wed May 22, 2024 - 9:36am Last Plotted: Wed May 22, 2024 - 9:40am By: Dave



DRAINAGE SUMMARY CALCULATION

	DA 1	DA 2	DA 3
Total Area (Square Feet)	257373	104030	274325
Total Area (Acres)	5.908471	2.3882	6.297635
Impervious Area	22775	2623	47912
Existing Roof	0	0	0
New Roof	9108	2216	0
New Gravel	0	0	0
New AC Concrete	13667	407	15811
Existing Gravel Road	0	0	32101
Landscape / Natural Area	234598	101407	226413
Runoff coefficient	0.31	0.27	0.32
Time of Concentration	15	15	15
Rainfall Intensity (10 Year)	1.56	1.56	1.56
Rainfall Intensity (25 Year)	1.8	1.8	1.8
Rainfall Intensity (50 Year)	2.05	2.05	2.05
Rainfall Intensity (100 Year)	2.25	2.25	2.25
Runoff for 10 years	2.857337	1.00591	3.14378
Runoff for 25 years	3.296927	1.160665	3.627438
Runoff for 50 years	3.754833	1.321869	4.131249
Runoff for 100 years	4.121159	1.450832	4.534298

PRELIMINARY

BY	DATE	REVISIONS

NAVIS
design | build | manage
info@navisdbm.com

5/10/2024
DATE
KS, SB
DRAWN BY
SB
CHECKED BY

REGISTERED PROFESSIONAL ENGINEER
SHARAT CHANDRA BANDUGULA
No. 82491
CIVIL
STATE OF CALIFORNIA

GOKULAM LOT A

GRADING & IMPROVEMENT PLANS

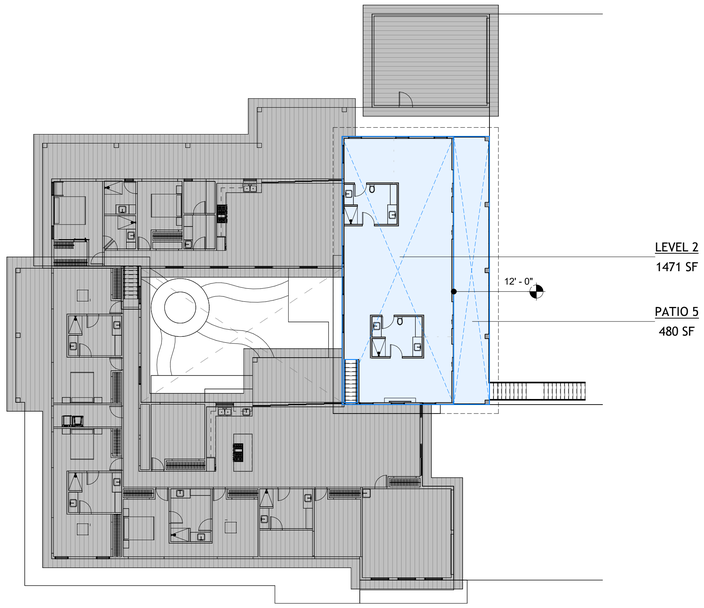
HYDROLOGY EXHIBIT

COUNTY OF SANTA CLARA

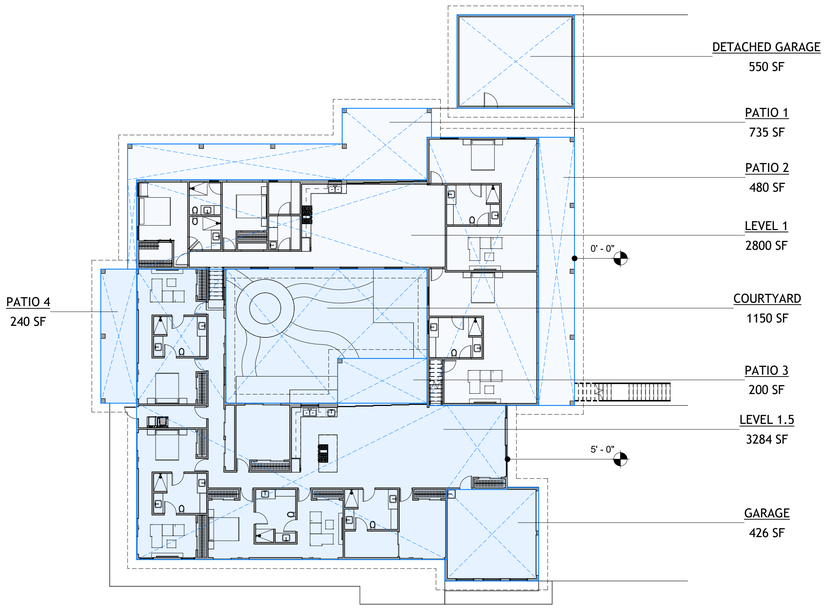
CALIFORNIA

C8.1
OF
XX

GOKULAM LOT A – GRADING & IMPROVEMENT PLANS 5/10/2024 – 2ND SUBMITTAL



2 AREA PLAN - LEVEL 2
1/16" = 1'-0"



1 AREA PLAN - LEVEL 1 & LEVEL 1.5
1/16" = 1'-0"

GROSS FLOOR AREA SUMMARY	
LEVEL 1:	2,800 SF
LEVEL 1.5:	3,284 SF
LEVEL 2	1,471 SF
GARAGE:	426 SF
TOTAL:	7,981 SF

COVERED & PARTIALLY ENCLOSED AREA SUMMARY	
PATIO 1:	735 SF
PATIO 2:	480 SF
PATIO 3:	200 SF
PATIO 4:	240 SF
PATIO 5:	480 SF
TOTAL:	2,135 SF

DETACHED GARAGE:	550 SF

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MATTHEW.JOHNSTON.AIA@GMAIL.COM

GOKULAM RESIDENCE - PRIMARY HOUSE

2425 OLD CALAVARAS ROAD
MILPITAS, CA 95035

APN: 029-34-004

MILESTONE / REVISION

DATE	REMARKS

DATE: 5/24/2024

AREA PLANS

SHEET
A00

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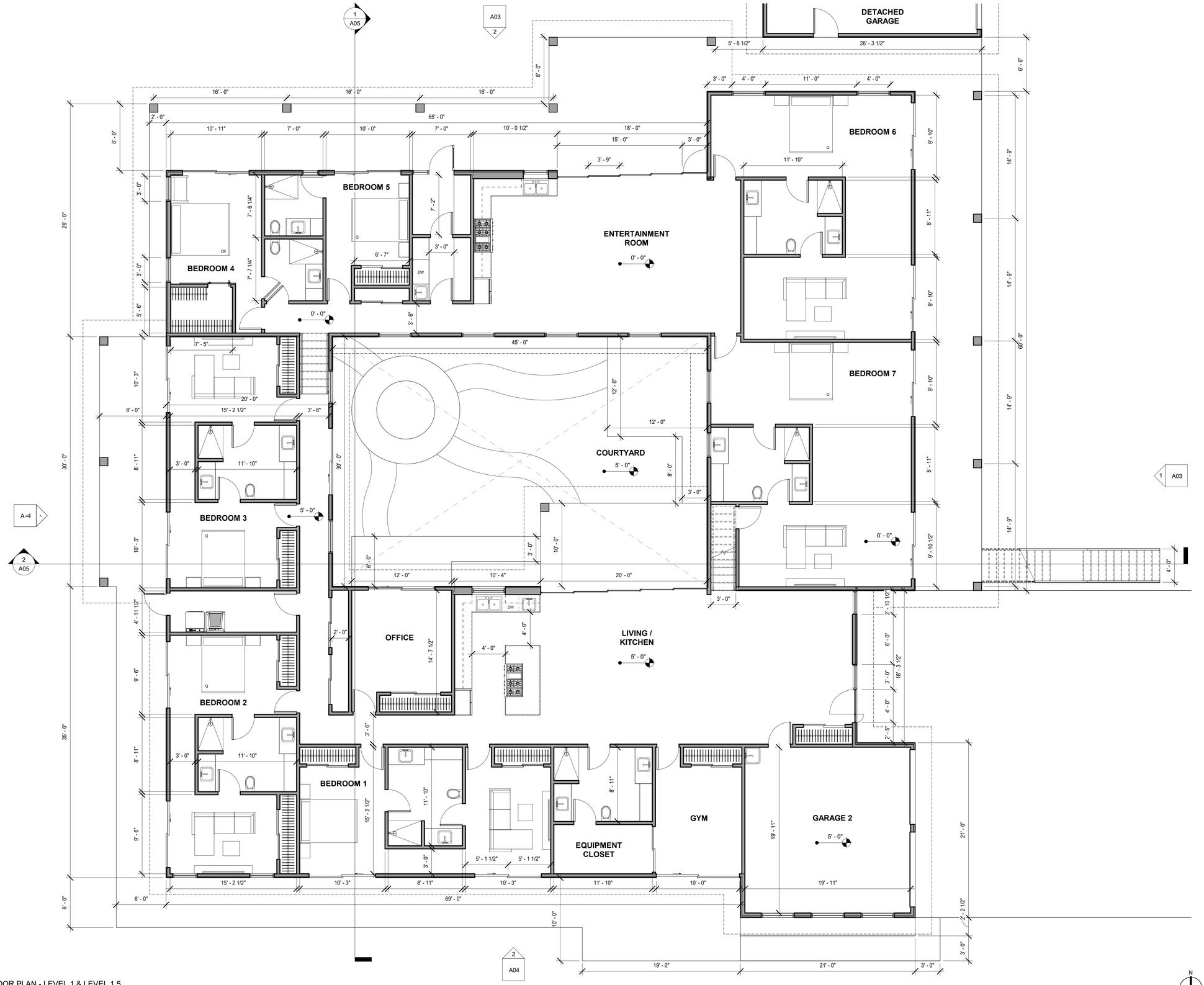

1 FLOOR PLAN - LEVEL 1 & LEVEL 1.5
3/16" = 1'-0"

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GOKULAM RESIDENCE - PRIMARY HOUSE

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MILPITAS, CA 95035

APN: 029-34-004

MILESTONE / REVISION

DATE	REMARKS

DATE: 5/24/2024

LEVEL 1 & LEVEL 1.5

SHEET
A01

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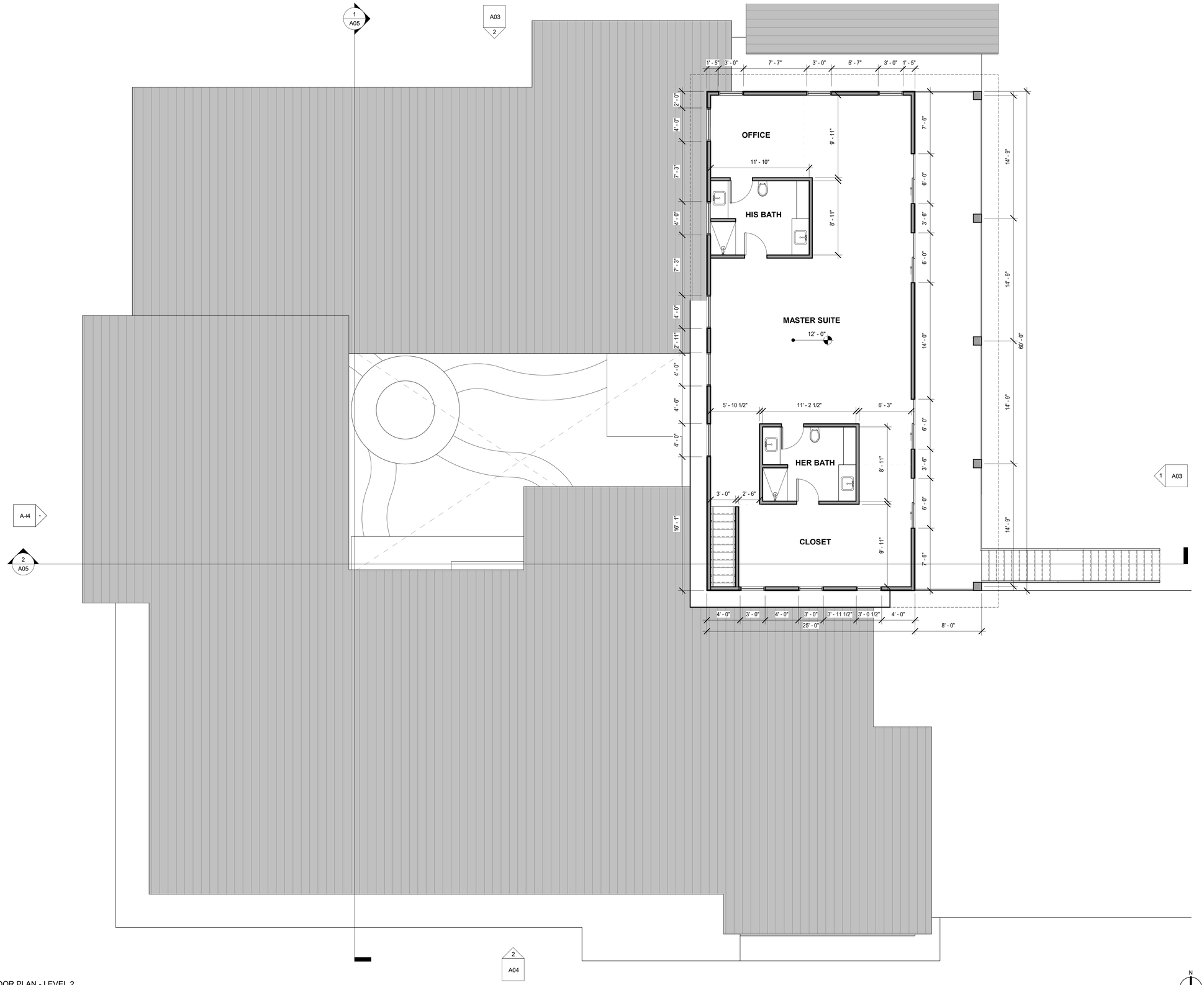

1 FLOOR PLAN - LEVEL 2
3/16" = 1'-0"

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GOKULAM RESIDENCE - PRIMARY HOUSE

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MILPITAS, CA 95035

APN: 029-34-004

MILESTONE / REVISION

DATE	REMARKS

DATE: 5/24/2024

LEVEL 2

SHEET
A02

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1 EXTERIOR ELEVATION - EAST
3/16" = 1'-0"

2 EXTERIOR ELEVATION - NORTH
3/16" = 1'-0"

MATERIALS

NOTE: 144 SF OF PLASTER REQUIRES A CONTROL JOINT

	STANDING SEAM ROOF METAL - SLATE GRAY, LVR 18.76
	DOOR & WINDOW FRAMES, RAILINGS, TRIM WHITE, LVR 99.2
	EXTERIOR WALLS PLASTER - PALM DESERT TAN, LVR 43.07
	ARCHITECTURAL ACCENTS STONE - MSI ALASKA GREY, LRV 44.42

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GOKULAM RESIDENCE - PRIMARY HOUSE

2425 OLD CALAVARAS ROAD
MILPITAS, CA 95035

APN: 029-34-004

MILESTONE / REVISION

DATE	REMARKS

DATE: 5/24/2024

ELEVATIONS

SHEET
A03

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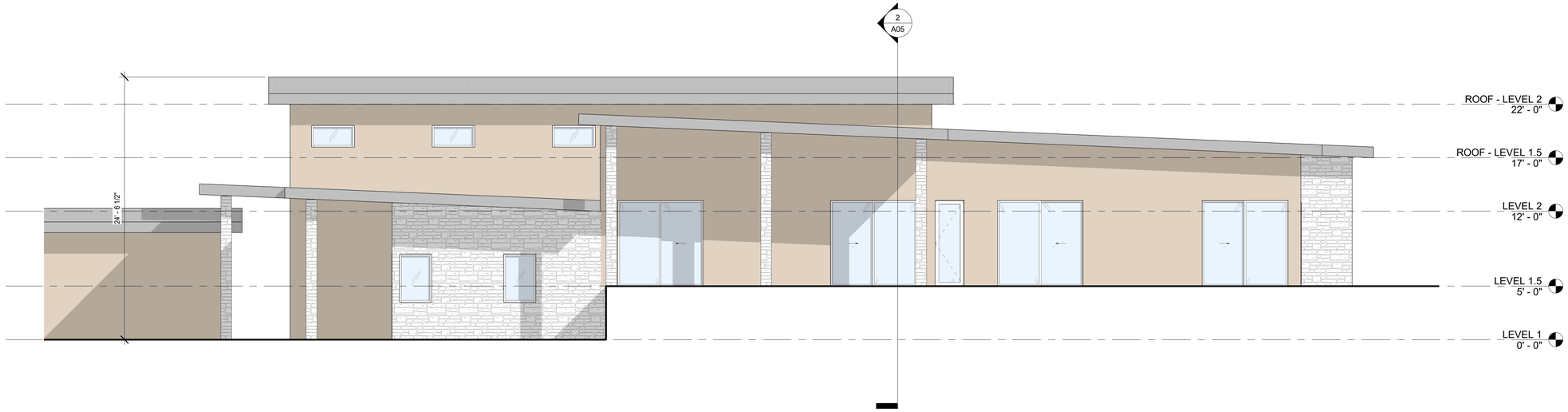
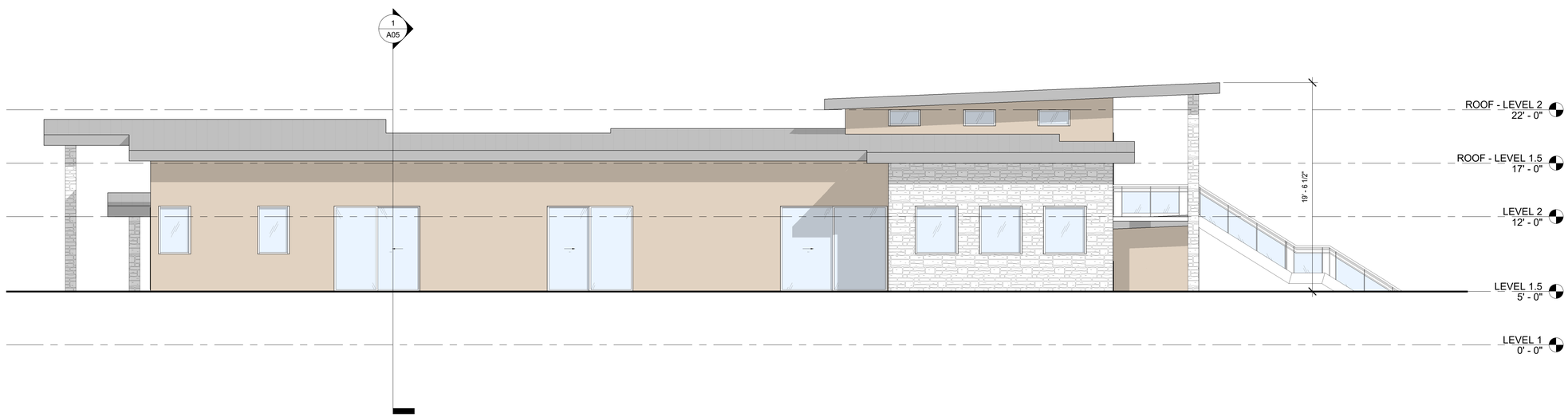


1 EXTERIOR ELEVATION - WEST
3/16" = 1'-0"



2 EXTERIOR ELEVATION - SOUTH
3/16" = 1'-0"

MATERIALS

NOTE: 144 SF OF PLASTER REQUIRES A CONTROL JOINT

	STANDING SEAM ROOF METAL - SLATE GRAY, LVR 18.76
	DOOR & WINDOW FRAMES, RAILINGS, TRIM WHITE, LVR 99.2
	EXTERIOR WALLS PLASTER - PALM DESERT TAN, LVR 43.07
	ARCHITECTURAL ACCENTS STONE - MSI ALASKA GREY, LRV 44.42

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GOKULAM RESIDENCE - PRIMARY HOUSE

2425 OLD CALAVARAS ROAD
MILPITAS, CA 95035

APN: 029-34-004

MILESTONE / REVISION

DATE	REMARKS

DATE: 5/24/2024

ELEVATIONS

SHEET
A04

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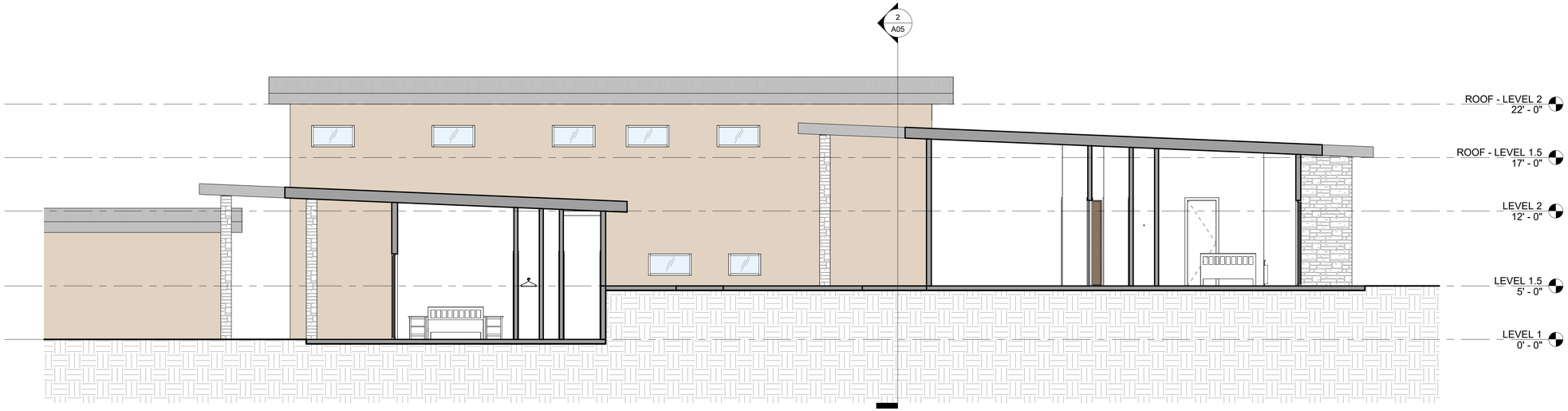
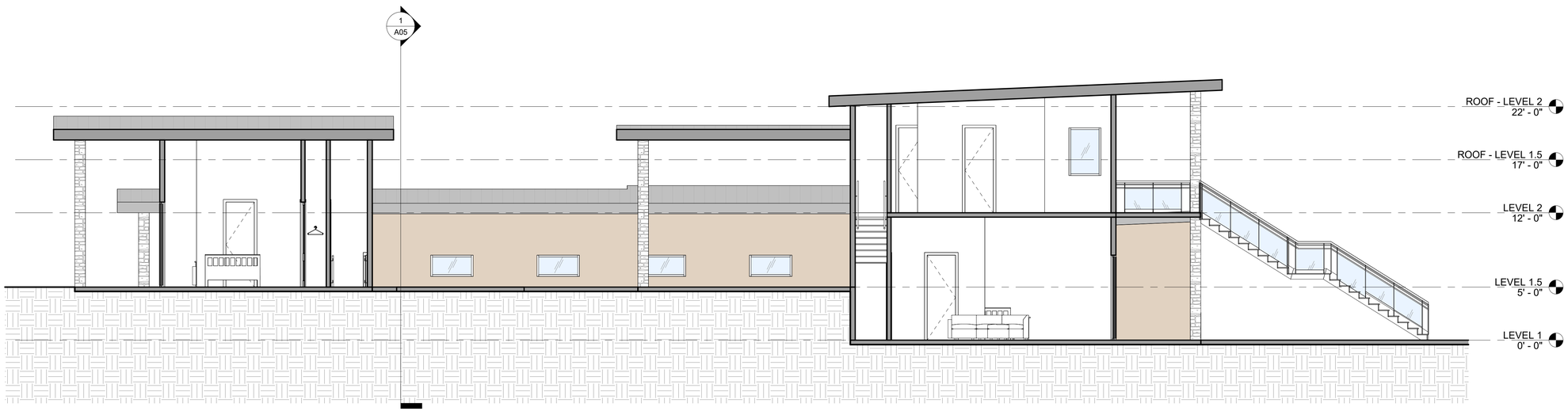


1 BUILDING SECTION 1
3/16" = 1'-0"



2 BUILDING SECTION 2
3/16" = 1'-0"

MATERIALS

NOTE: 144 SF OF PLASTER REQUIRES A CONTROL JOINT

	STANDING SEAM ROOF METAL - SLATE GRAY, LVR 18.76
	DOOR & WINDOW FRAMES, RAILINGS, TRIM WHITE, LVR 99.2
	EXTERIOR WALLS PLASTER - PALM DESERT TAN, LVR 43.07
	ARCHITECTURAL ACCENTS STONE - MSI ALASKA GREY, LRV 44.42

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GOKULAM RESIDENCE - PRIMARY HOUSE

2425 OLD CALAVARAS ROAD
MILPITAS, CA 95035

APN: 029-34-004

MILESTONE / REVISION

DATE	REMARKS

DATE: 5/24/2024

SECTIONS

SHEET
A05

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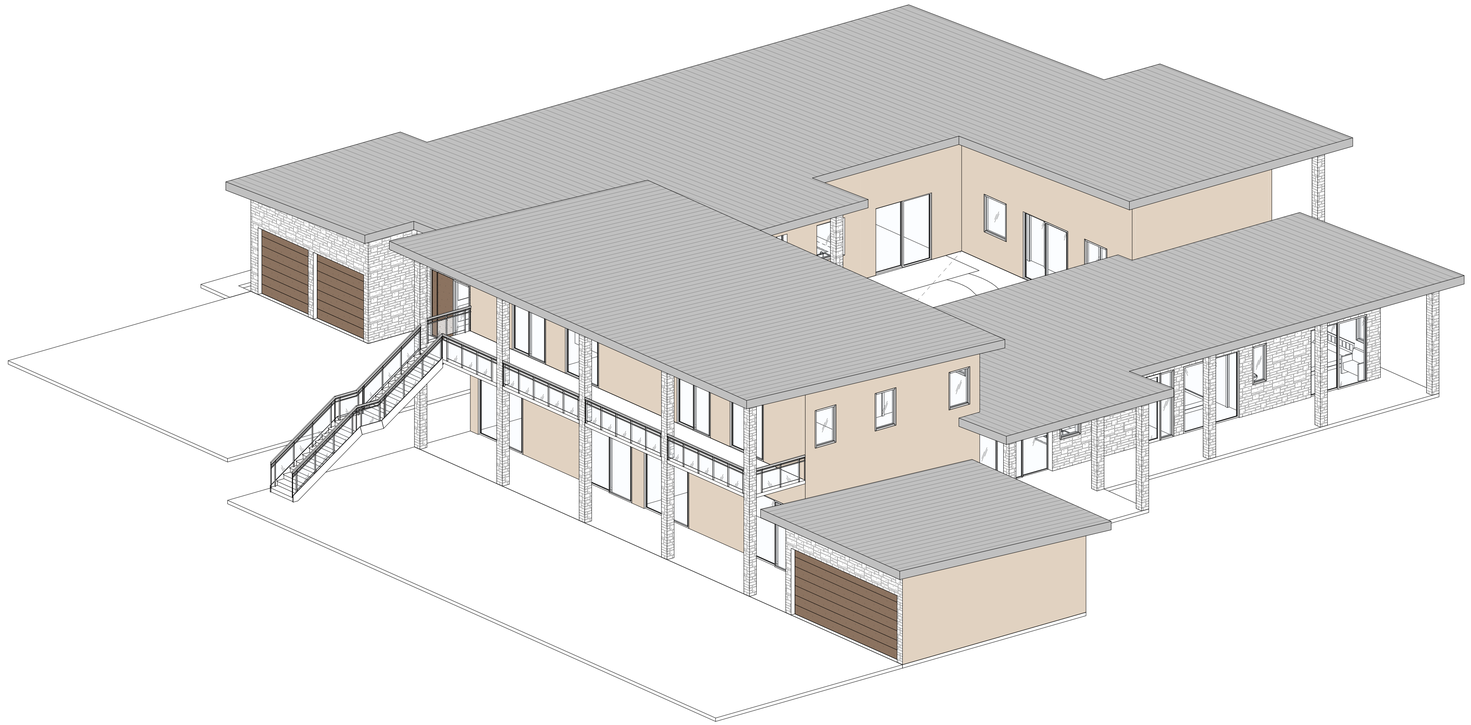
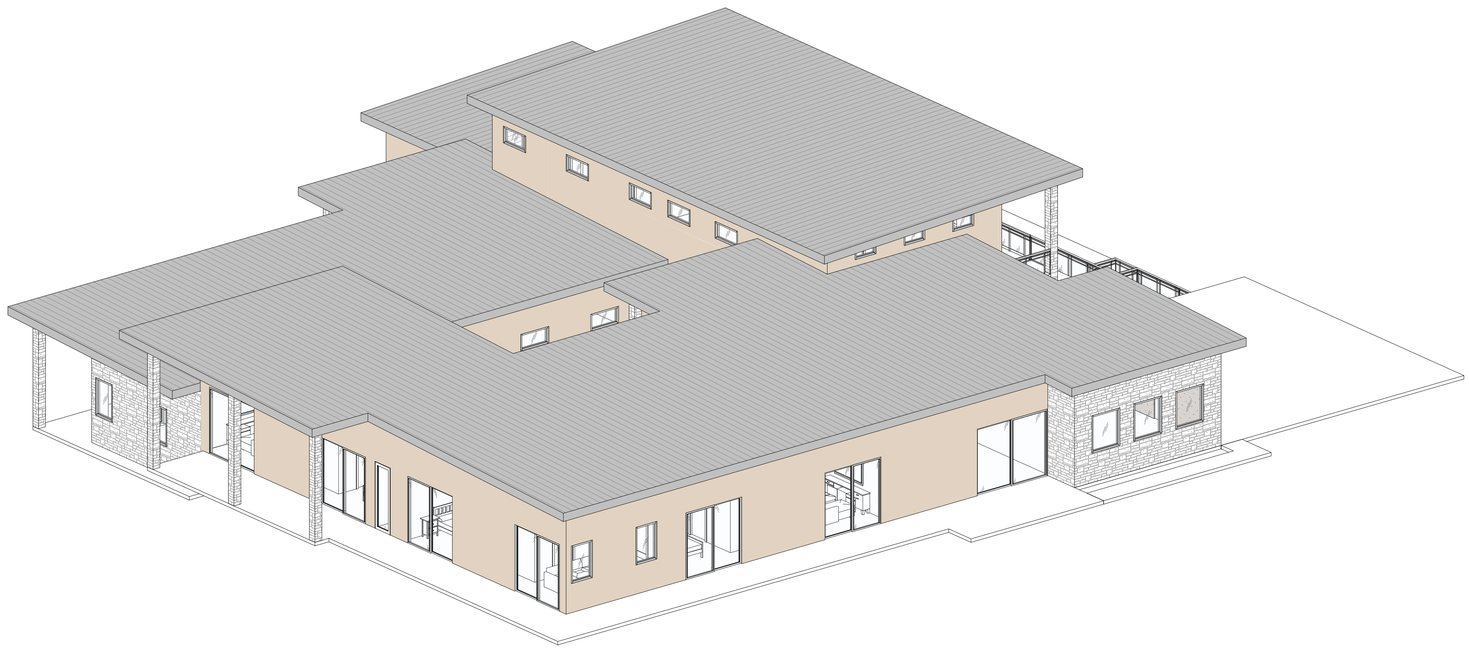


1 3D VIEW 1



2 3D VIEW 2

MATERIALS

NOTE: 144 SF OF PLASTER REQUIRES A CONTROL JOINT

	STANDING SEAM ROOF METAL - SLATE GRAY, LVR 18.76
	DOOR & WINDOW FRAMES, RAILINGS, TRIM WHITE, LVR 99.2
	EXTERIOR WALLS PLASTER - PALM DESERT TAN, LVR 43.07
	ARCHITECTURAL ACCENTS STONE - MSI ALASKA GREY, LRV 44.42

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GOKULAM RESIDENCE - PRIMARY HOUSE

2425 OLD CALAVARAS ROAD
MILPITAS, CA 95035

APN: 029-34-004

MILESTONE / REVISION

DATE	REMARKS

DATE: 5/24/2024

3D VIEWS

SHEET

A06

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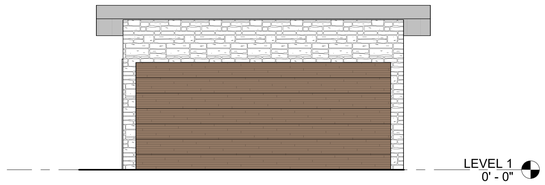
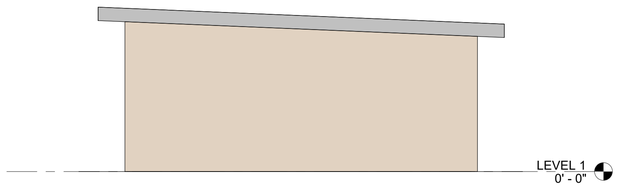
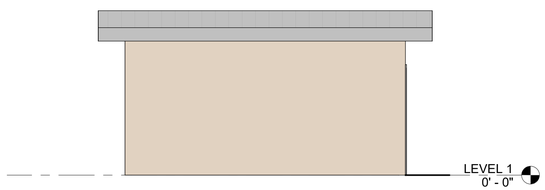


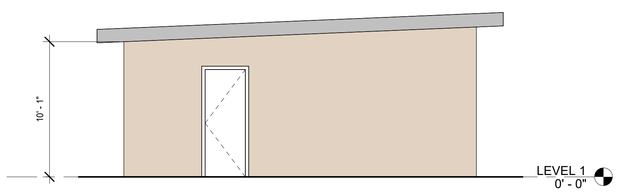
2 GARAGE ELEVATION - EAST
3/16" = 1'-0"



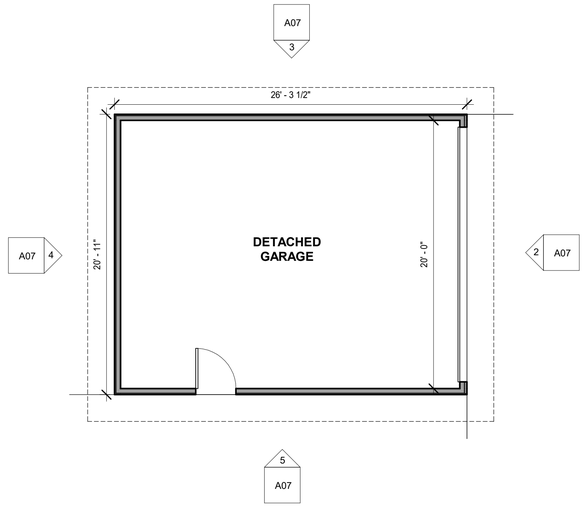
3 DETACHED GARAGE - NORTH ELEVATION
3/16" = 1'-0"



4 DETACHED GARAGE - WEST ELEVATION
3/16" = 1'-0"



5 DETACHED GARAGE - SOUTH ELEVATION
3/16" = 1'-0"



1 DETACHED GARAGE - FLOOR PLAN
3/16" = 1'-0"

N

MATERIALS

NOTE: 144 SF OF PLASTER REQUIRES A CONTROL JOINT

	STANDING SEAM ROOF METAL - SLATE GRAY, LVR 18.76
	DOOR & WINDOW FRAMES, RAILINGS, TRIM WHITE, LVR 99.2
	EXTERIOR WALLS PLASTER - PALM DESERT TAN, LVR 43.07
	ARCHITECTURAL ACCENTS STONE - MSI ALASKA GREY, LRV 44.42

JAG
JOHNSTON ARCHITECTURE GROUP
MATTHEW.JOHNSTON.AIA@GMAIL.COM

GOKULAM RESIDENCE - PRIMARY HOUSE

2425 OLD CALAVARAS ROAD
MILPITAS, CA 95035

APN: 029-34-004

MILESTONE / REVISION

DATE	REMARKS

DATE: 5/24/2024

DETACHED GARAGE

SHEET
A07

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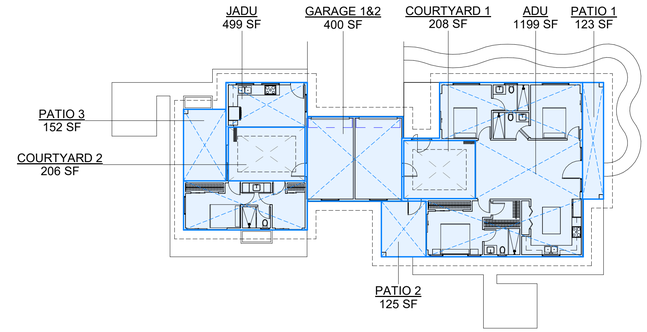
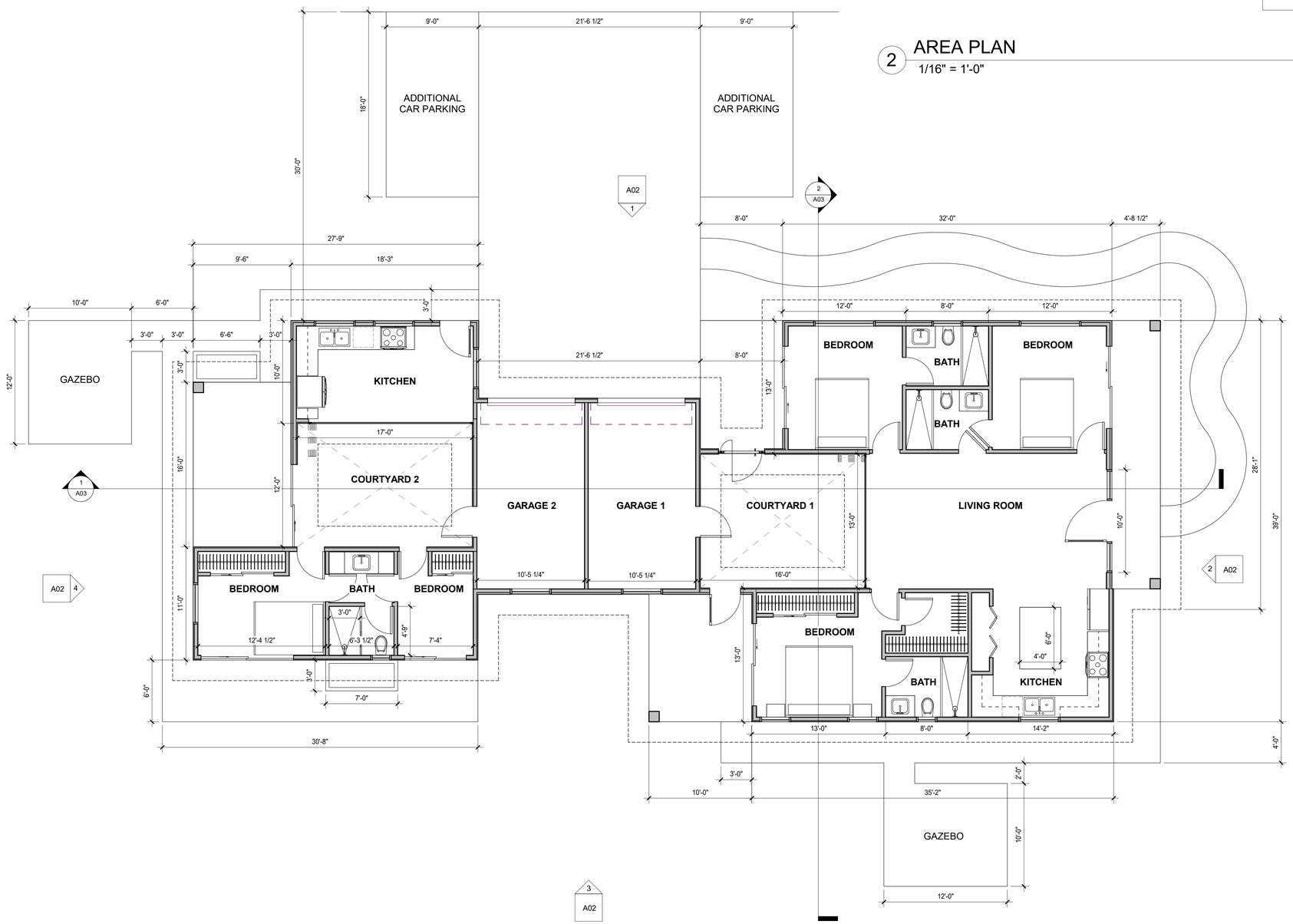


2 AREA PLAN

1/16" = 1'-0"



1 FLOOR PLAN

3/16" = 1'-0"

GROSS FLOOR AREA SUMMARY	
ADU:	1,199 SF
JADU:	499 SF
TOTAL:	1,698 SF

COVERED & PARTIALLY ENCLOSED AREA SUMMARY	
ADU PATIO 1:	123 SF
ADU PATIO 2:	125 SF
ADU TOTAL:	248 SF
JADU PATIO 3:	152 SF
GRAND TOTAL:	400 SF

GARAGE AREA	
GARAGE 1&2:	400 SF

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GOKULAM RESIDENCE - ADU & JADU

APN: 029-34-004
(LOT A)

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FLOOR PLAN

SHEET
A01

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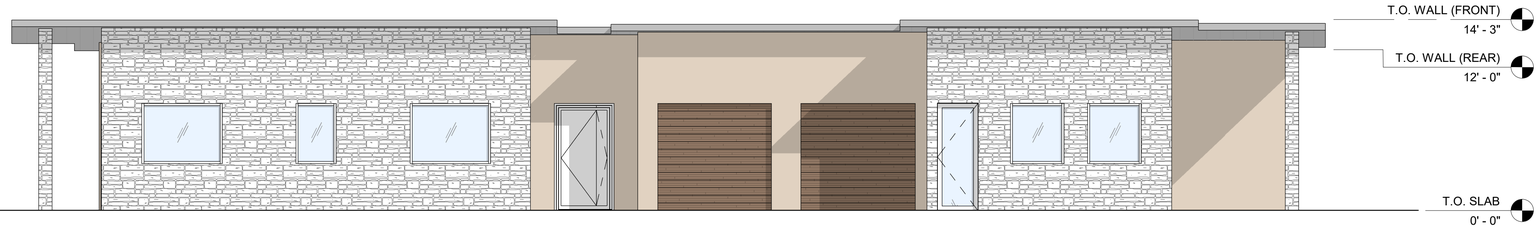
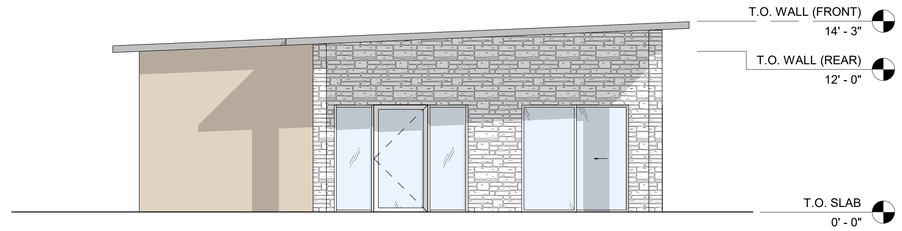
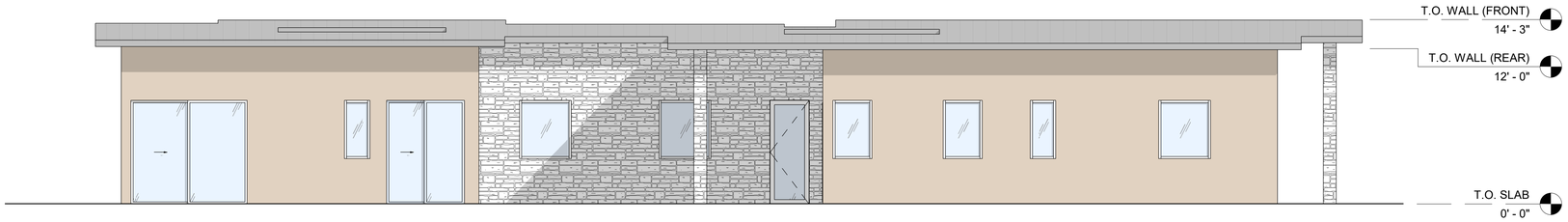


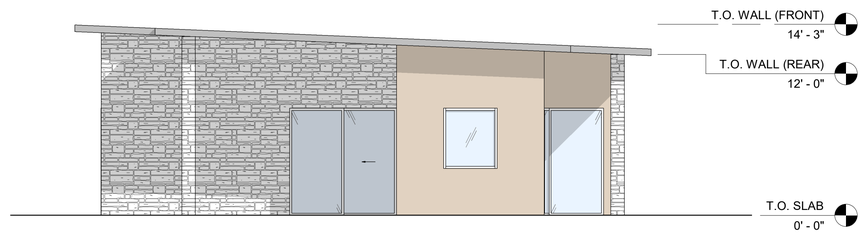
1 North
3/16" = 1'-0"



2 East
3/16" = 1'-0"



3 South
3/16" = 1'-0"



4 West
3/16" = 1'-0"

MATERIALS

NOTE: 144 SF OF PLASTER REQUIRES A CONTROL JOINT

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APN: 029-34-004
(LOT A)

MILESTONE / REVISION

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ELEVATIONS

SHEET
A02

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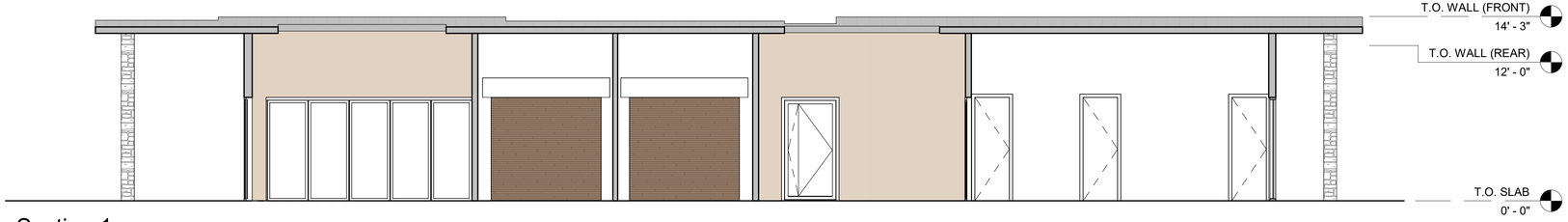
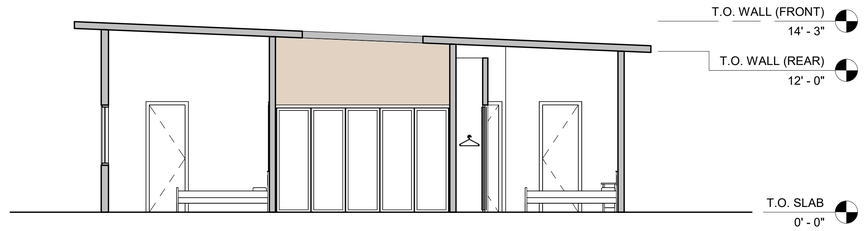


1 Section 1
3/16" = 1'-0"



2 Section 2
3/16" = 1'-0"

MATERIALS

NOTE: 144 SF OF PLASTER REQUIRES A CONTROL JOINT

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SECTIONS

SHEET
A03

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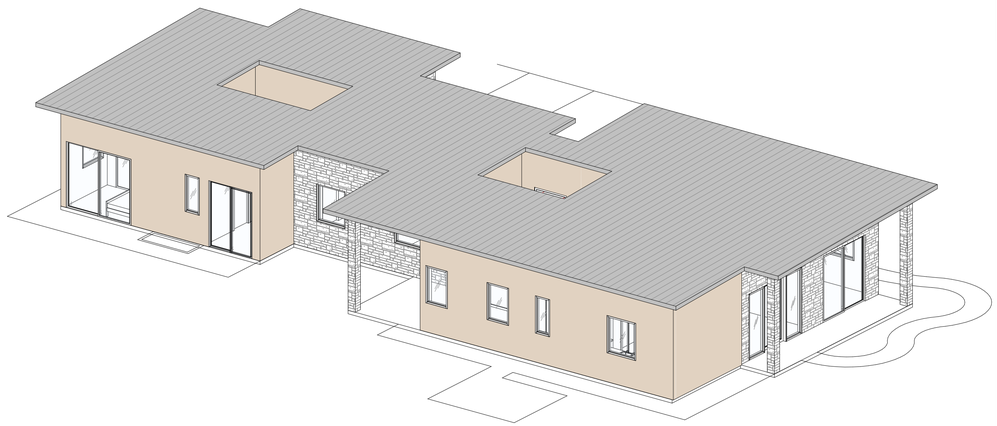
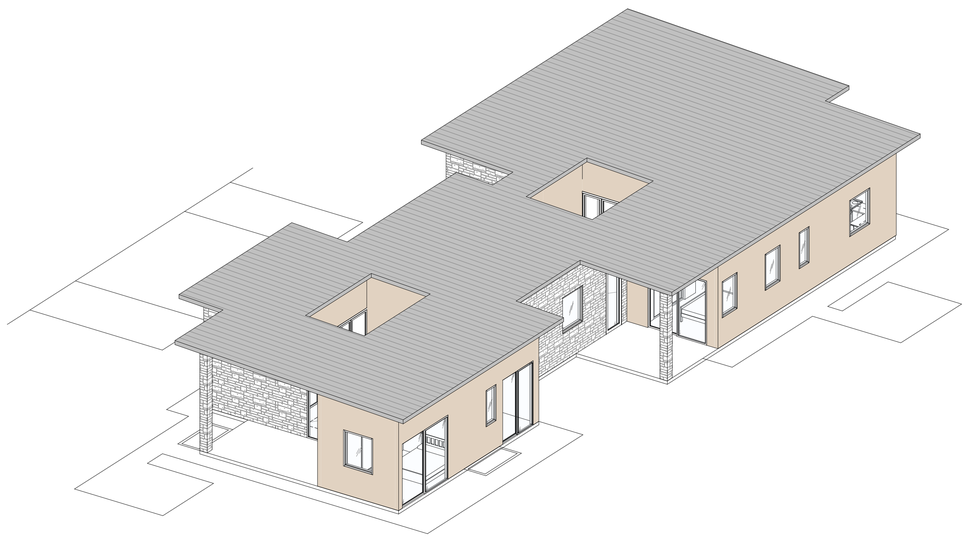
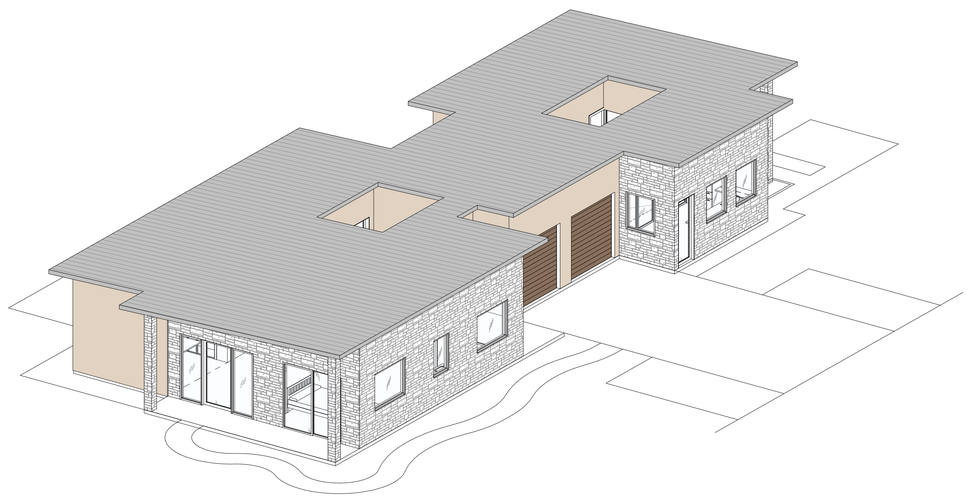
1 3D VIEW - 1



2 3D VIEW - 2



3 3D VIEW - 3



4 3D VIEW - 4

MATERIALS

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3D VIEWS

SHEET
A04

ARCHITECTURAL SYMBOLS

000	GRID LINE
123A / R123A	DOOR IDENTIFICATION / RELITE IDENTIFICATION
A	WINDOW TYPE
1	LOUVER TYPE
1	REVISION
SEE A3.1	MATCH LINE Shaded area is side considered
	WORK POINT, DATUM POINT, CONTROL POINT
1 A5.1	DETAIL Upper mark denotes drawing number Lower mark denotes sheet
1 A5.1	
A A5.1	PARTIAL BUILDING SECTION
A A5.1 / A A5.1	BUILDING CROSS SECTION
1A 1D A7.01 1B 1C	INTERIOR ELEVATION Elevation number denoted in arrow Sheet number denoted in box
ROOM NAME 12345	ROOM IDENTIFICATION
1	CODED NOTE
A1B	WALL TYPE
123456	EQUIPMENT IDENTIFICATION
	DASHED LINE Used to denote items hidden, overhead, not in contract (NIC), or to be removed
	BREAK LINE Material to continue
	CENTER LINE, GRID LINES
	PROPERTY LINE
2075	EXISTING CONTOUR, DISTURBED
2075	NEW CONTOUR
2075	EXISTING CONTOUR, UNCHANGED
16.2	NEW FINISH GRADE
12.5	EXISTING GRADE
TF 12.4	TOP OF FOOTING
TW 17.33	TOP OF WALL
TC 12.42	TOP OF CURB
TP 11.92	TOP OF PAVEMENT

ARCHITECTURAL MATERIALS

DETAIL INDICATIONS

- ACOUSTIC TILE OR BOARD
- ASPHALT CONCRETE PAVING
- ROOFING
- BRICK
- CONCRETE
- PRECAST CONCRETE
- CONCRETE MASONRY UNIT
- EARTH / FINISH GRADE
- GLASS
- GRAVEL
- GYPSUM BOARD
- INSULATION, BATT
- INSULATION, RIGID
- MORTAR, PLASTER, SAND
- MDF
- PLYWOOD
- WOOD, FINISH
- WOOD FRAMING Continuous member
- WOOD FRAMING Interrupted member

PLAN INDICATIONS

- STUD WALL
- BRICK
- CONCRETE MASONRY UNIT
- CONCRETE

ABBREVIATIONS

	ANGLE
	CENTERLINE
#	POUND OR NUMBER
&	AND
@	AT
°	DEGREE
±	PLUS / MINUS
Ø	DIAMETER
A/C	AIR CONDITIONING
AB	ANCHOR BOLT
AC	ASPHALT CONCRETE
ACM	ALUMINUM COMPOSITE PANEL
ACOUS	ACOUSTICAL
AD	AREA DRAIN
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
ADJT	ADJACENT
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
AJ	ACCENT JOINT
AL	ALUMINUM
ALT	ALTERNATE
ANC	ANCHOR(AGE)
ANOD	ANODIZED
APC	ACOUSTICAL PANEL CEILING
APF	ACOUSTICAL PANEL FABRIC
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASB	ASBESTOS
ASPH	ASPHALT
AUTO	AUTOMATIC
AWP	ACOUSTICAL WALL PANEL
BD	BOARD
BET	BETWEEN
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOF	BOTTOM OF FRAME
BOM	BOTTOM OF MASONRY
BOTT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BUR	BUILT UP ROOF
C	COURSES
CAB	CABINET
CB	CATCH BASIN, CHALKBOARD
CC	CUBICLE CURTAIN & TRACK
CEM	CEMENT
CER	CERAMIC
CFB	CEMENT FIBER BOARD
CG	CORNER GUARD
CI	CAST IRON
CIP	CAST-IN-PLACE CONCRETE
CJ	CONTROL JOINT
CLG	CEILING
CLKG	CAULKING
CLO	CLOSET
CLR	CLEAR, COLOR
CMU	CONCRETE MASONRY UNIT
CNR	CORNER
CNTR	COUNTER
CO	CLEANOUT
COL	COLUMN
COMBO	COMBINATION TPD, SNR, & SCD
COMP	COMPOSITION, COMPOSITE
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CRTN	CURTAIN
CT	CERAMIC TILE
CTR	CENTER
CW	CURTAIN WALL
CWP	COMPOSITE WALL PANEL

ABBREVIATIONS

D	DEEP, DEPTH
DBL	DOUBLE
DEMO	DEMOLISH, DEMOLITION
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPOSAL
DIV	DIVISION
DN	DOWN
DP	DAMPPROOF(ING)
DR	DOOR
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DWG	DRAWING
DWR	DRAWER
E	EAST
EA	EACH
EHD	ELECTRIC HAND/ HAIR DRYER
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	ENTRY MAT
EMB	ENAMELIZED MARKING BOARD
EMER	EMERGENCY
ENCL	ENCLOSURE
EP	ELECTRICAL PANELBOARD, EPOXY PAINT
EPT	EPOXY PAINT
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EYEWASH
EWC	ELECTRIC WATER COOLER
EXC	EXCAVATE
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPOSED, EXPANSION
EXT	EXTERIOR
F	FILE (DRAWER)
FA	FIRE ALARM
FAB	FABRICATE
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET (RECESSED)
FEC-S	FIRE EXTINGUISHER CABINET (SEMI-RECESSED)
FF	FACTORY FINISHED
FFL	FINISHED FLOOR LINE
FHC	FIRE HOSE CABINET
FIN	FINISH
FLASH	FLASHING
FLR	FLOOR, FLOORING
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FOSH	FACE OF SHEATHING
FP	FIREPROOF
FR	FIRE RESISTANT
FRMG	FRAMING
FRP	FIBER REINFORCED PLASTIC
FRTW	FIRE RETARDANT TREATED WOOD
FS	FLOOR SINK
FSS	FOLDING SHOWER SEAT
FT	FOOT, FEET
FTG	FOOTING
FURR	FURRING
FUT	FUTURE
FWC	FABRIC WALL COVERING

ABBREVIATIONS

GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GEN	GENERAL
GI	GALVANIZED IRON
GL	GLASS
GLB	GLUE LAMINATED BEAM
GLZ	GLAZING
GMU	GLAZED MASONRY UNIT
GND	GROUND
GR	GRADE
GYP	GYPSUM BOARD (SCHEDULES ONLY)
GYP BD	GYPSUM BOARD
H	HIGH
HB	HOSE BIB
HC	HOLLOW CORE, HANDICAP (ACCESSIBLE)
HD	HEAD
HDW	HARDWARE
HDWD	HARDWOOD
HORIZ	HORIZONTAL
HS	HAND SANITIZER
HSS	HOLLOW STEEL SECTION
HT	HEIGHT
HTG	HEATING
HVAC	HEATING/ VENTILATING/ AIR CONDITIONING
HWH(T)	HOT WATER HEATER (TANK)
I/S	INSIDE
ID	INSIDE DIAMETER (DIM)
IMP	INSULATED METAL PANEL
INCL	INCLUDE
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
INTERCOM	INTERCOMMUNICATION
IRD	IMPACT RESISTANT DOOR
JAN	JANITOR
JST	JOIST
JT	JOINT
KIT	KITCHEN
L	LENGTH, LONG
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LIN	LINOLEUM
LKR	LOCKER
LMS	LIQUID MARKING SURFACE
LT	LIGHT, LEFT
LV	LOUVER
MACH	MACHINE
MAP	MUSIC ACOUSTICAL PANEL
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKING BOARD
MBR	MEMBER
MC	MEDICINE CABINET
MCM	METAL COMPOSITE PANEL
MCSP	MINERAL COMPOSITE SCULPTURAL PANEL
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE, MOP HOLDER
MIN	MINIMUM
MIR	MIRROR
MIR-S	MIRROR W/ SHELF
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MT(D)	MOUNT(ED)
MTL	METAL
MUL	MULLION

ABBREVIATIONS

N	NORTH
NAT	NATURAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O/S	OUTSIDE
OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OCC	OCCUPANT, OCCUPANCY
OD	OUTSIDE DIAMETER (DIM)
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OVERHEAD
OHD	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
PAR	PARALLEL
PB	PEG BOARD
PC	PRECAST
PCC	PORTLAND CEMENT CONCRETE
PCD	PAPER CUP DISPENSER
PERF	PERFORATED
PERP	PERPENDICULAR
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLUMB	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
POL	POLISHED
POS	POSITIVE
PR	PAIR
PREFAB	PREFABRICATE(D)
PREFIN	PREFINISH(ED)
PROJ	PROJECT
PS	PROJECTION SCREEN
PT	POINT, PAINT
PTD	PAPER TOWEL DISPENSER
PTDR	COMBINATION PAPER TOWEL DISPENSER & RECEPTACLE
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE
PVMT	PAVEMENT
PWP	PLASTIC WALL PROTECTION
QT	QUARRY TILE
R	RISER, RADIUS
R&S	CLOSET ROD & SHELF
RAF	RESILIENT ATHLETIC FLOORING
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RDO	ROOF DRAIN, OVERFLOW
REBAR	REINFORCING BAR
RECD	RECEIVED
REF	REFERENCE
REFL	REFLECTED
REFR	REFRIGERATOR
REINF	REINFORCE(D)(ING)
REQD	REQUIRED
RESIL	RESILIENT
RF	ROOF
RFT	RESILIENT FLOORING TILE
RH	ROBE HOOK
RM	ROOM
RO	ROUGH OPENING
RSD	RECESSED SOAP DISPENSER
RSS	RUBBER STAIR STRINGER
RSTR	RUBBER STAIR TREAD / RISER
RT	RIGHT, RUBBER TILE
RWL	RAIN WATER LEADER

ABBREVIATIONS

S	SOUTH
SC	SOLID CORE
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SD	SOAP DISPENSER
SDG	SIDING
SECT	SECTION
SHR	SHOWER
SHT	SHEET
SHTG	SHEETING / SHEATHING
SIM	SIMILAR
SLD	SOLID SURFACE
SLR	SEALER
SND	SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTACLE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSK	SERVICE SINK
STD	STANDARD
STL	STEEL
STN	STAIN
STOR	STORAGE
STRFT	STOREFRONT
STRUCT	STRUCTURAL
SUB	SUBSTITUTE
SUSP	SUSPENDED
SV	SHEET VINYL
SWC	SANITARY WALL COVERING
SYM	SYMMETRICAL
SYS	SYSTEM
T	TREAD, TEE
TB	TOWEL BAR, TACK BOARD
TC	TOP OF CURB
TEL	TELEPHONE
TEMP	TEMPORARY
TERR	TERRAZZO
TF	TOP OF FOOTING
THK	THICK
THRU	THROUGH
TOF	TOP OF FRAME
TOM	TOP OF MASONRY
TP	TOP OF PAVEMENT
TPD	TOILET PAPER DISPENSER
TR	TOWEL RACK
TS	TUBE STEEL
TV	TELEVISION
TVB	TELEVISION BRACKET
TW	TOP OF WALL
TYP	TYPICAL
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UPT	UNGLAZED PORCELAIN TILE
UR	URINAL
USK	UTILITY SINK
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VENT	VENTILATE
VER	VERIFY
VERT	VERTICAL
VEST	VESTIBULE
VOL	VOLUME
VRB	VENTILATING RUBBER BASE
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WEST, WIDE, WIDTH
W/	WITH
W/D	WASHER/DRYER
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WFAP	WOOD FIBER ACOUSTICAL PANEL
WH	WALL HUNG
WP	WATERPROOF, WALL PADS
WPTL	WOOD PRESERVATIVE TREATED LUMBER
WR	WATER REPELLENT
WS	WEATHER STRIPPING
WSCT	WAINSCOT
WT	WEIGHT
WTR	WATER
WWF	WELDED WIRE FABRIC

PROJECT FOR: GOKULAM, LLC

HMA
HAYDEN MOORE ARCHITECTURE
916.342.7658 | MOORE.H.T@GMAIL.COM

SEAL & SIGN:

ENTITLEMENT PACKAGE REVIEW DOCUMENT

THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION PURPOSES. THE DOCUMENT ILLUSTRATES THE SCHEMATIC DESIGN INTENT OF THE PROJECT FOR REVIEW.

WHEN THE DESIGN ELEMENTS OF THE PROJECT ARE AGREED UPON BY THE OWNER, THE OWNER SHALL SIGN THE DOCUMENT BELOW AS A NOTICE TO PROCEED

SIGNATURE

DATE

NO.	ISSUE/REVISION	DATE
	ENTITLEMENT DRAWINGS	12/05/2023

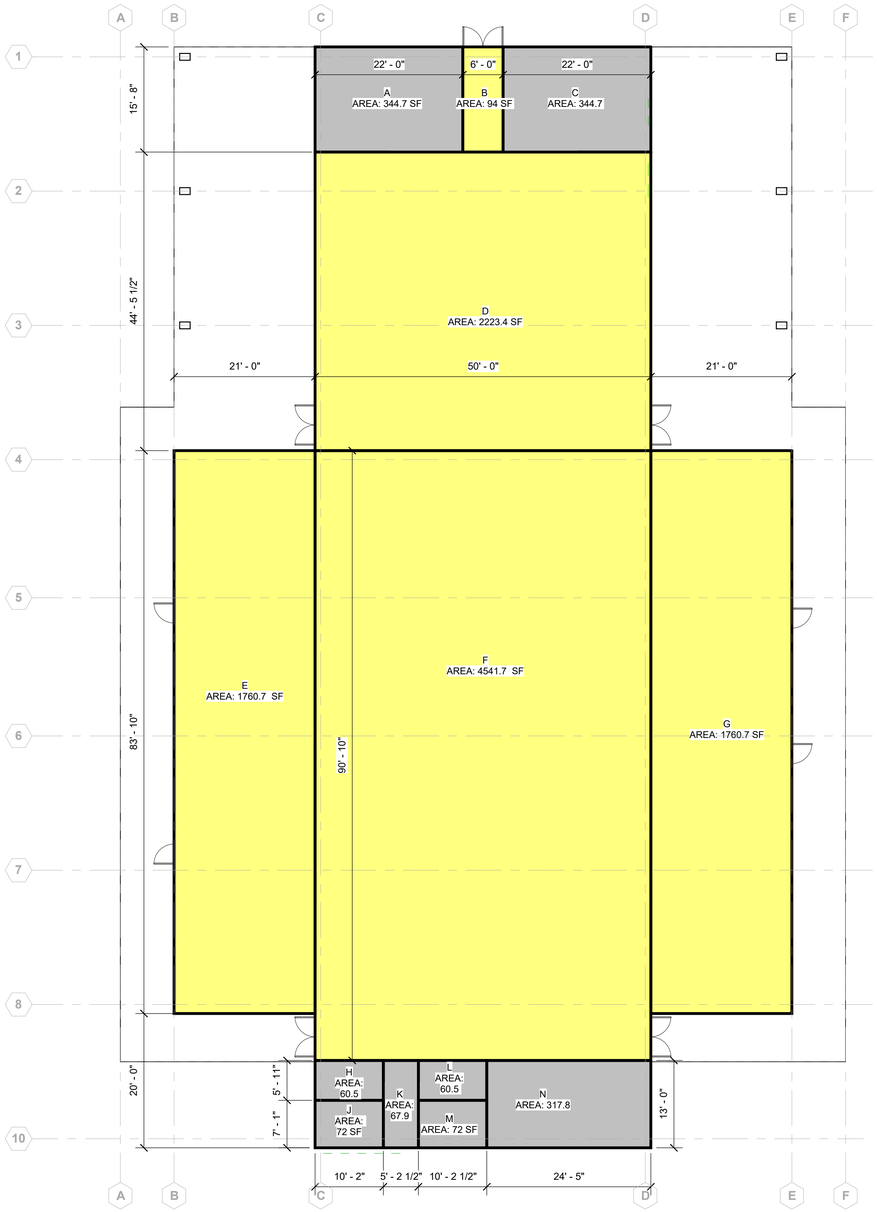
BIG BARN
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

SHEET INDEX, NOTES, AND ABBREVIATIONS

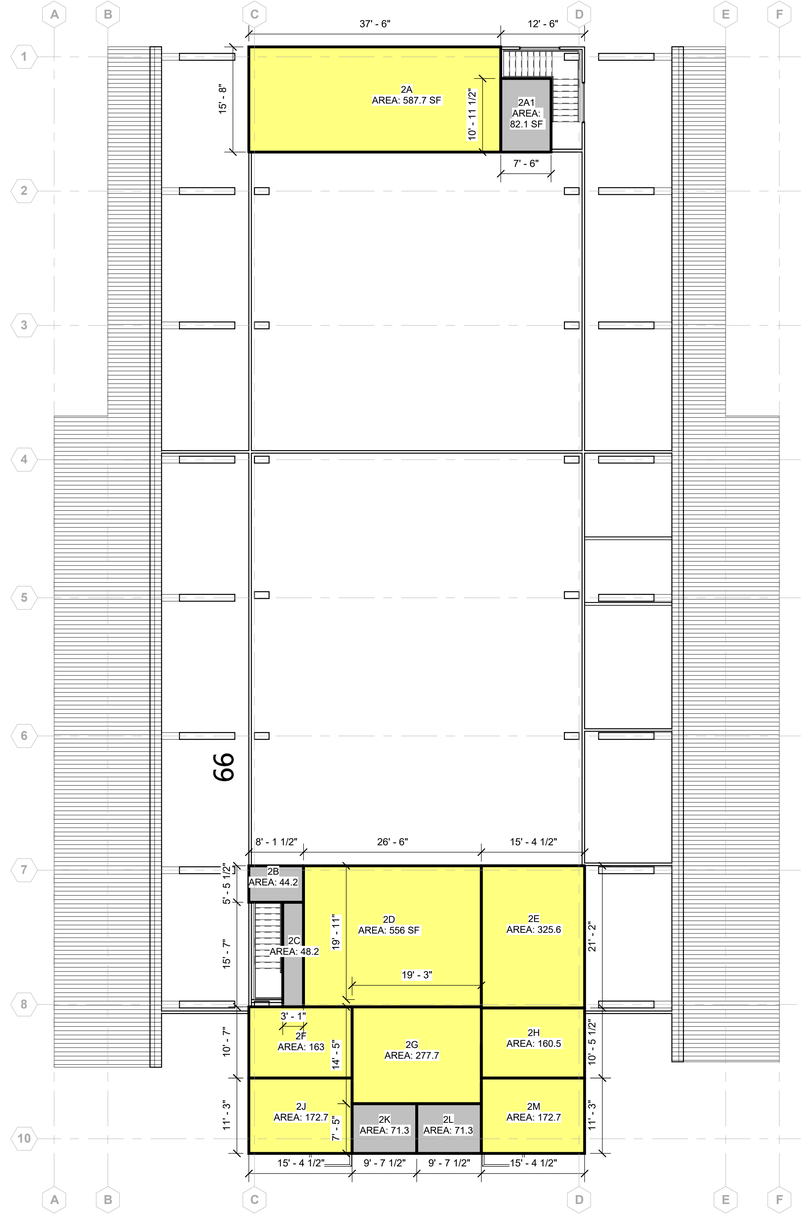
DRAWN BY:	HM
CHECKED BY:	HM
DATE:	12/05/2023
SCALE:	As indicated

A0.01



1 FIRST FLOOR - AREA CALC

Scale: 3/32" = 1'-0"



2 MEZZANINE - AREA CALC

Scale: 3/32" = 1'-0"

BIG BARN AREA TABULATION			
TAG	WIDTH	X LENGTH	AREA
A	22'-0"	x 15'-8"	344.7 SF
B	6'-0"	x 15'-8"	94 SF
C	22'-0"	x 15'-8"	344.7 SF
D	50'-0"	x 44'-5.5	2223.4 SF
E	21'-0"	x 83'-10"	1760.7 SF
F	50'-0"	x 90'-10"	4541.7 SF
G	21'-0"	x 83'-10"	1760.7 SF
H	5'-11"	x 10'-2"	60.5 SF
J	7'-1"	x 10'-2"	72 SF
K	13'-0"	x 5'-2.5"	67.9 SF
L	5'-11"	x 10'-2.5"	60.5 SF
M	7'-1"	x 10'-2.5	72 SF
N	13'-0"	x 24'-5"	317.8 SF
2A	15'-8"	x 37'-6"	587.7 SF
2A1	10'-11.5"	x 7'-6"	82.1 SF
2B	5'-5.5"	x 8'1.5"	44.2 SF
2C	15'-7"	x 3'-1"	48.2 SF
2D	20'-11.5"	x 26'-6"	556 SF
2E	21'-2"	x 15'-4.5"	356.6 SF
2F	10'-7"	x 15'-4.5"	163 SF
2G	14'-5"	x 19'-3"	277.7 SF
2H	10'-5.5"	x 15'-4.5"	160.5 SF
2J	11'-3"	x 15'-4.5"	172.7 SF
2K	7'-5"	x 9'-7.5"	71.3 SF
2L	7'-5"	x 9'-7.5"	71.3 SF
2M	11'-3"	x 15'-4.5"	172.7 SF
TOTAL:			14484.6 SF

PROJECT FOR: GOKULAM, LLC

HMA
HAYDEN MOORE ARCHITECTURE

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NO.	ISSUE/REVISION	DATE
	ENTITLEMENT DRAWINGS	12/03/2023

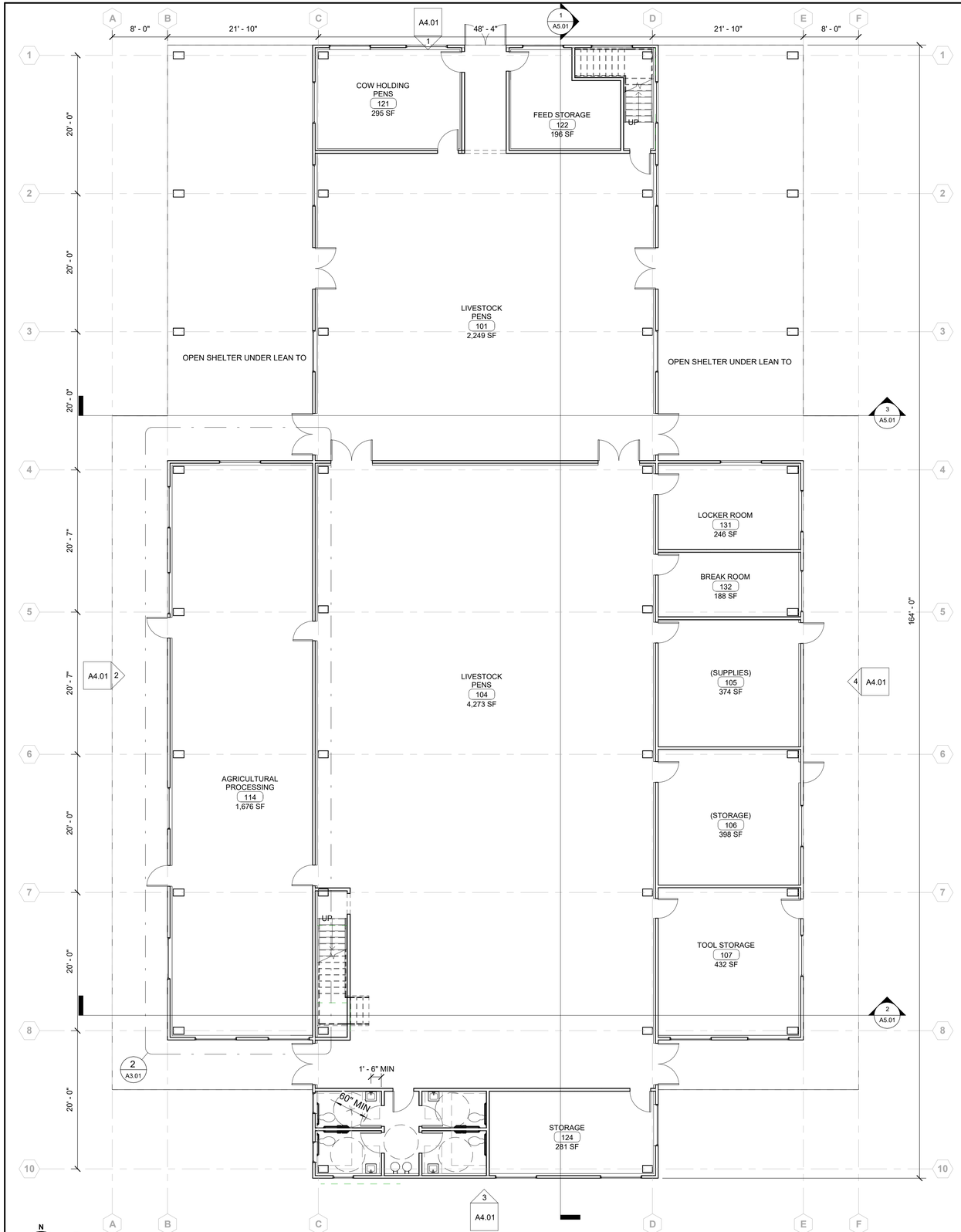
BIG BARN
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

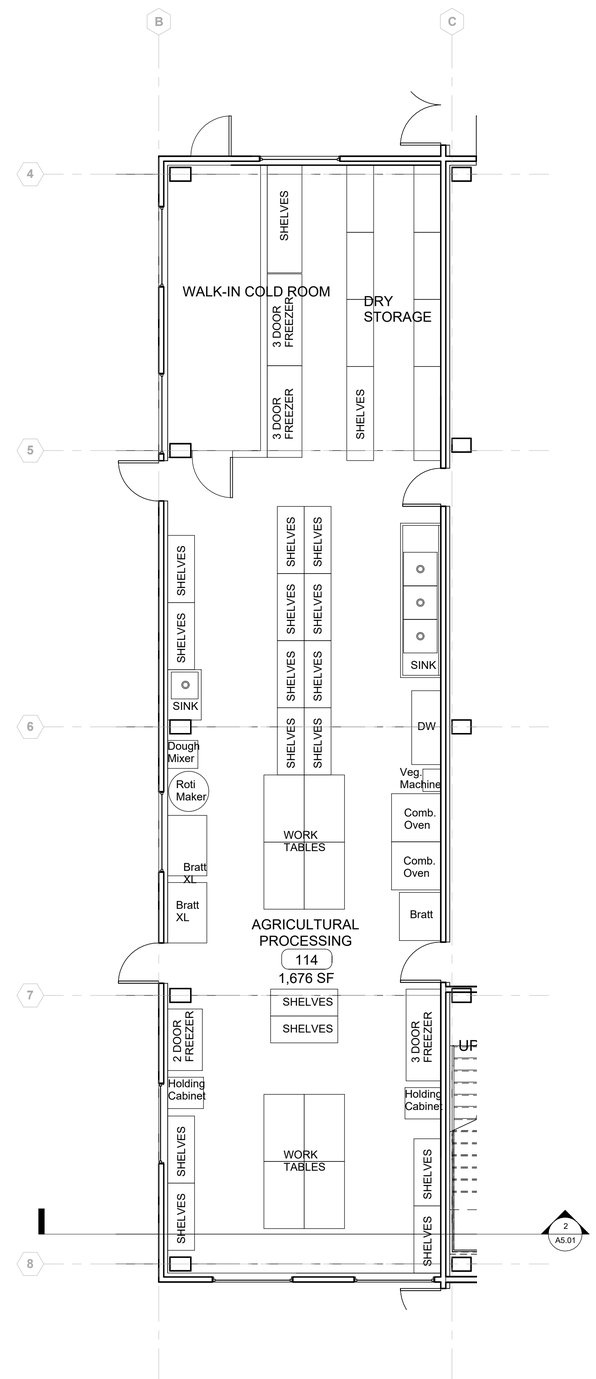
FLOOR AREA CALCULATION

DRAWN BY:	HM
CHECKED BY:	HM
DATE:	12/03/2023
SCALE:	3/32" = 1'-0"

A3.00



1 FIRST FLOOR
Scale: 1/8" = 1'-0"



2 AG PROCESSING AREA
Scale: 3/16" = 1'-0"

GROSS FLOOR AREA TABULATION		
LEVEL	ROOM(S)	GROSS AREA
LEVEL 1 (0'-0")	LIVESTOCK AREAS, OFFICES, STORAGE, AG PROCESSING	11,721 SF
MEZZ (+10'-0")	OFFICES, STORAGE, RESTROOMS	2,727 SF
GROSS FLOOR AREA:		**14,448 SF**

LEVEL 1 (0'-0")	COVERED PATIO	4,687 SF

1/8" SCALE 16' 8' 6' 4' 2' 0' 16' 32' 0'

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NO.	ISSUE/REVISION	DATE
	ENTITLEMENT DRAWINGS	12/03/2023

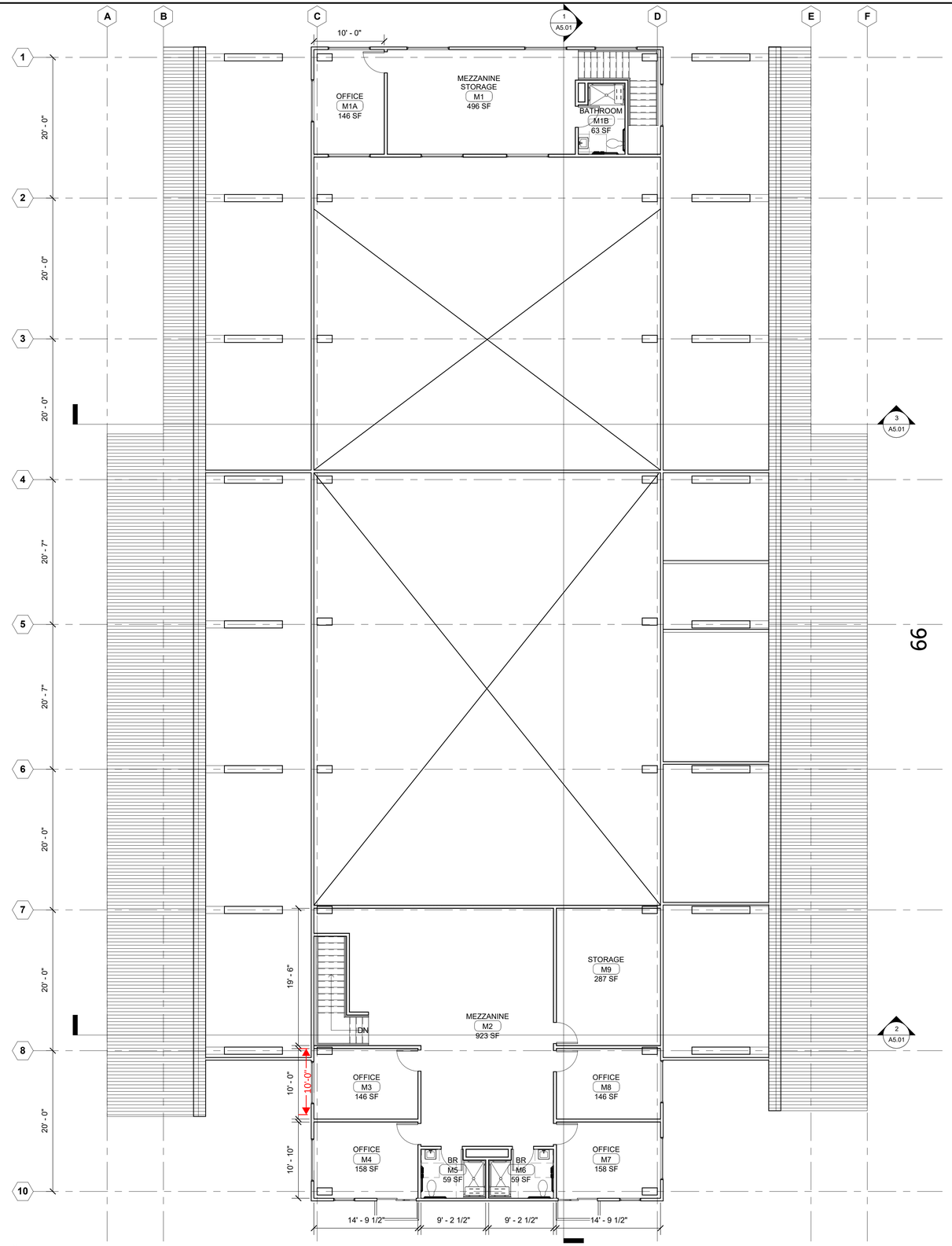
BIG BARN
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

FLOOR PLAN - LEVEL 1

DRAWN BY: Author
CHECKED BY: Author
DATE: 12/03/2023
SCALE: As indicated

A3.01



N

1 MEZZANINE
Scale: 1/8" = 1'-0"

99

GROSS FLOOR AREA TABULATION		
LEVEL	ROOM(S)	GROSS AREA
LEVEL 1 (0'-0")	LIVESTOCK AREAS, OFFICES, STORAGE, AG PROCESSING	11,721 SF
MEZZ (+10'-0")	OFFICES, STORAGE, RESTROOMS	2,727 SF
GROSS FLOOR AREA:		**14,448 SF**

LEVEL 1 (0'-0")	COVERED PATIO	4,687 SF

1/8" SCALE 16' 8' 6' 4' 2' 0' 16' 32' 0'

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	ENTITLEMENT DRAWINGS	12/03/2023

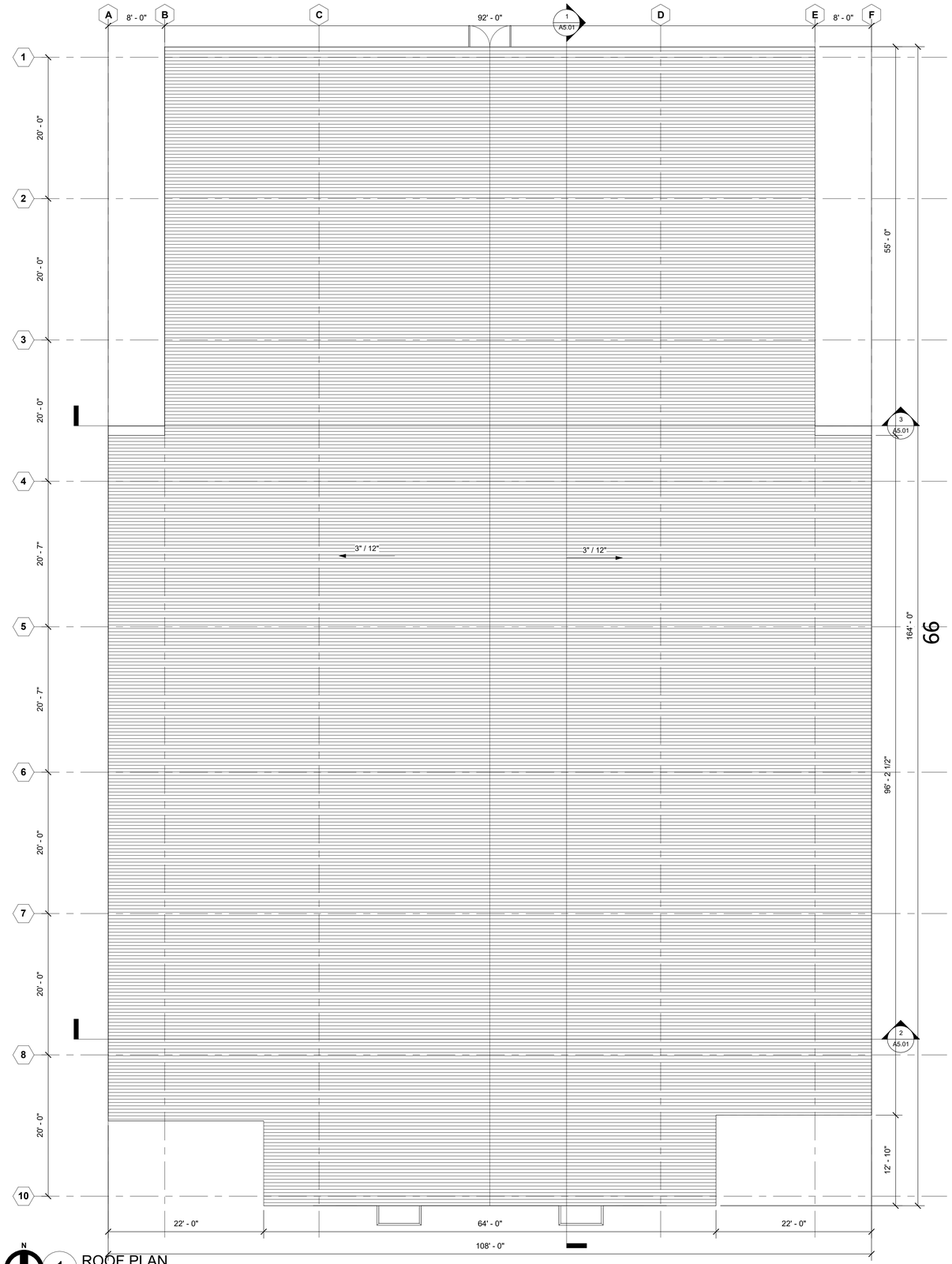
BIG BARN
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

FLOOR PLAN - MEZZANINE

DRAWN BY: HM
CHECKED BY: HM
DATE: 12/03/2023
SCALE: As indicated

A3.02



1 ROOF PLAN
Scale: 1/8" = 1'-0"

1/8" SCALE 16' 8' 6' 4' 2' 0' 16' 32'

PROJECT INFO:

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	ENTITLEMENT DRAWINGS	12/03/2023

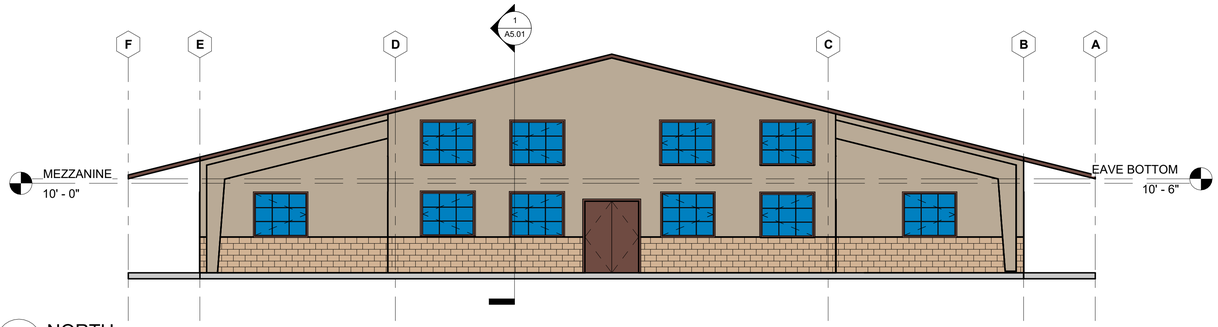
BIG BARN
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

ROOF PLAN

DRAWN BY:	HM
CHECKED BY:	HM
DATE:	12/03/2023
SCALE:	1/8" = 1'-0"

A3.03



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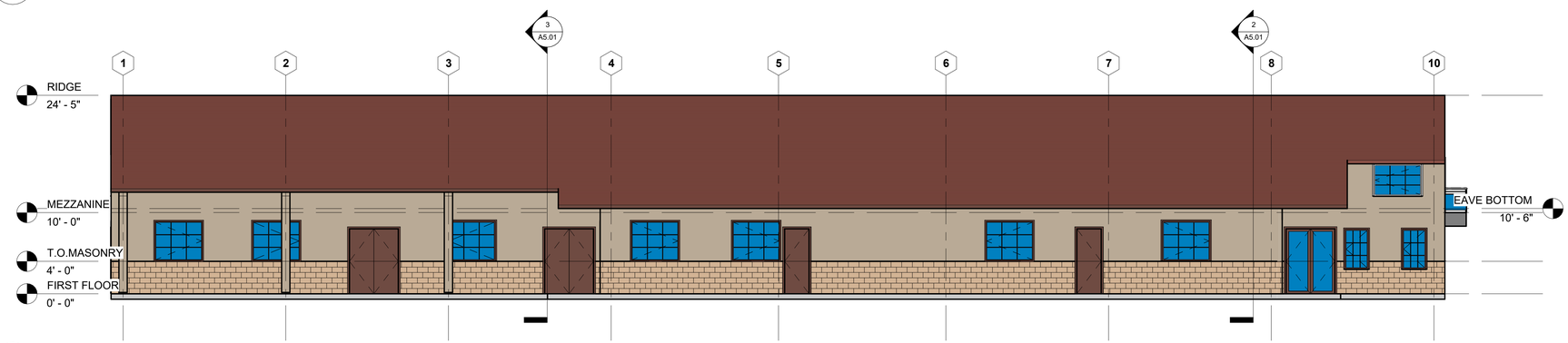
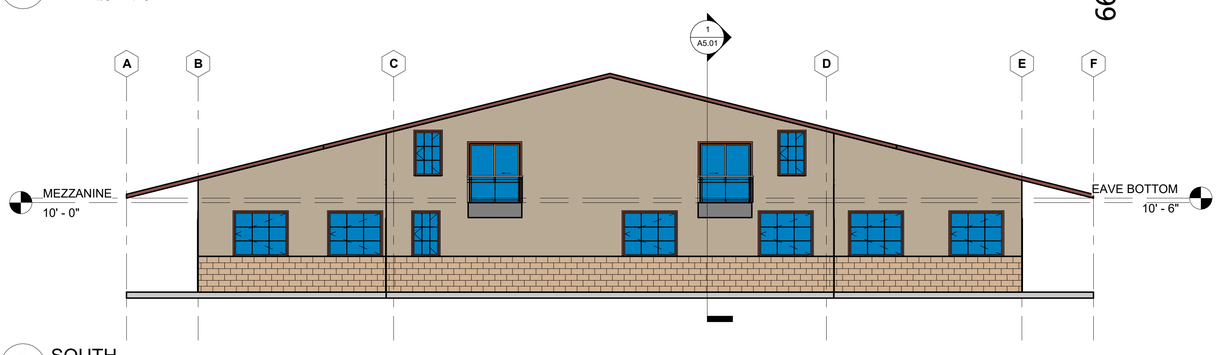
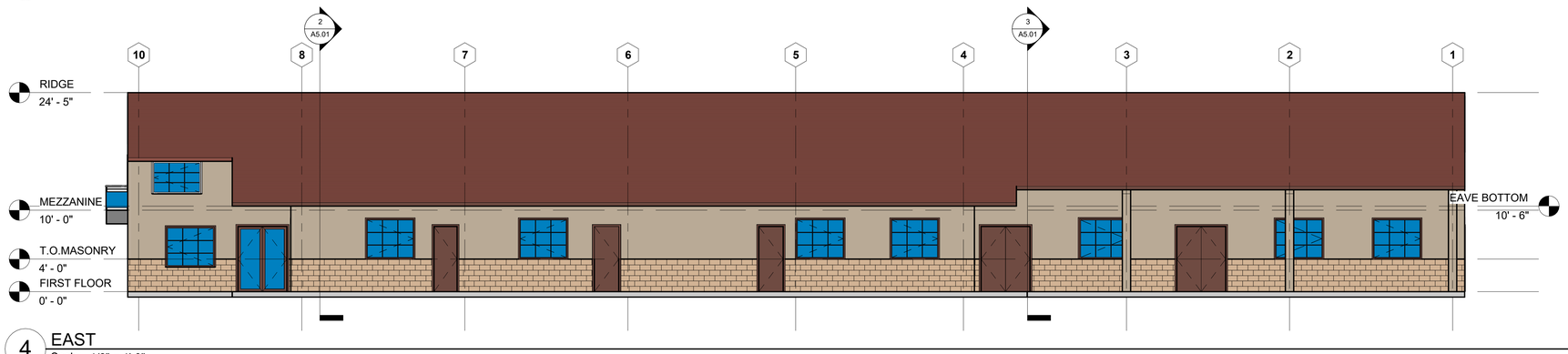


2 WEST
Scale: 1/8" = 1'-0"



3 SOUTH
Scale: 1/8" = 1'-0"



4 EAST
Scale: 1/8" = 1'-0"

COLOR AND MATERIAL LEGEND

WALL CLADDING	METAL ROOFING	DOOR & WINDOW FRAMES, & TRIMS, GUTTERS & EAVES
BROWNSTONE (LRV 19.29) MANUF: METL SPAN STANDARD II EXTERIOR COLORS **STRUCTURAL STEEL** PAINT MATCH: BENJAMIN MOORE: RUSTIC TAUPE 999 OR EQ.	TERRA COTTA (LRV 8.29) MANUF: METL SPAN PREMIUM I EXTERIOR COLORS **DOOR LEAFS** PAINT MATCH: BENJAMIN MOORE: RED ROCK 2005-10 OR EQ.	**MEDIUM BRONZE (LRV 10.17)** PAINT MATCH: BENAJMIN MOORE: STONE BROWN 2112-30 OR EQ.

1/8" SCALE 16' 8' 6' 4' 2' 0' 16' 32'

PROJECT FOR: GOKULAM, LLC

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NO.	ISSUE/REVISION	DATE
	ENTITLEMENT DRAWINGS	12/03/2023

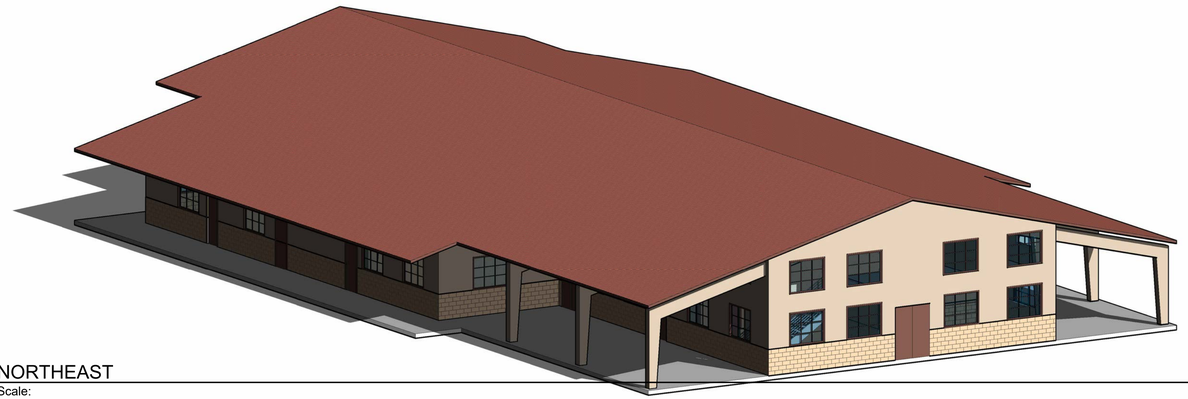
BIG BARN
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

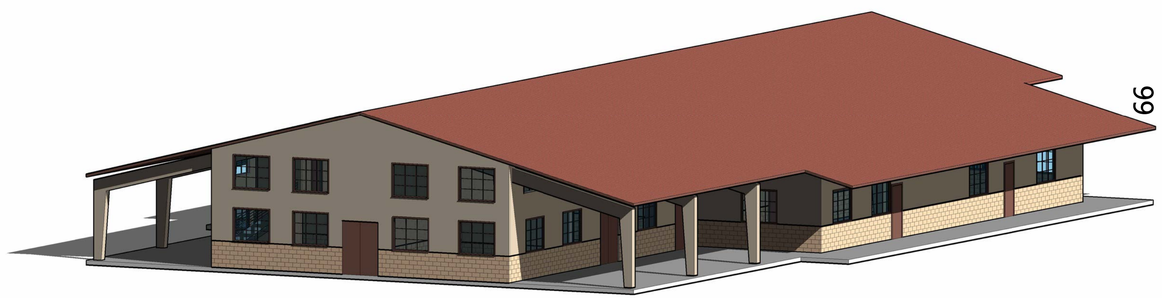
EXTERIOR ELEVATIONS

DRAWN BY: Author
CHECKED BY: Author
DATE: 12/03/2023
SCALE: As indicated

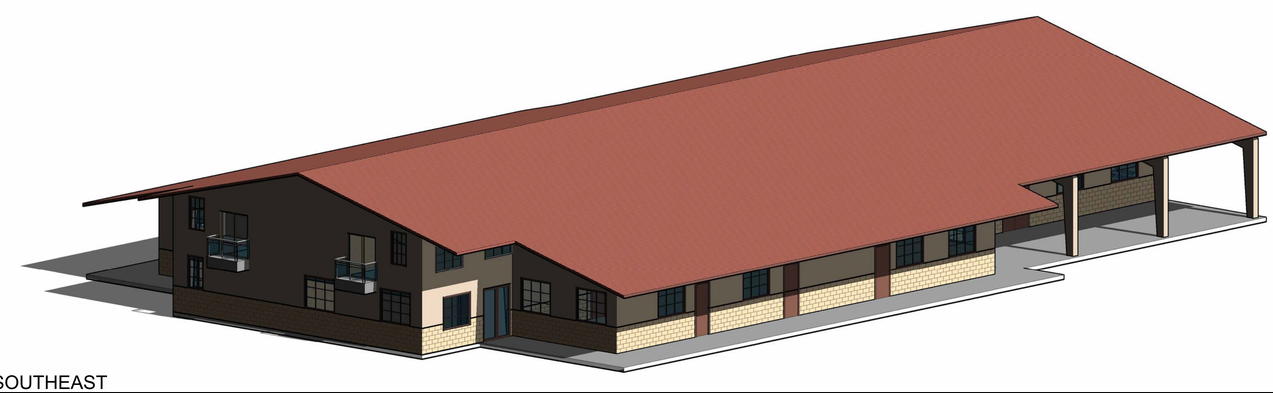
A4.01



1 NORTHEAST
Scale:



2 NORTHWEST
Scale:



3 SOUTHEAST
Scale:

COLOR AND MATERIAL LEGEND

WALL CLADDING	METAL ROOFING	DOOR & WINDOW FRAMES, & TRIMS, GUTTERS & EAVES
BROWNSTONE (LRV 19.29) MANUF: METL SPAN STANDARD II EXTERIOR COLORS **STRUCTURAL STEEL** PAINT MATCH BENJAMIN MOORE: RUSTIC TAUPE 999 OR EQ.	TERRA COTTA (LRV 8.29) MANUF: METL SPAN PREMIUM I EXTERIOR COLORS **DOOR LEAFS** PAINT MATCH BENJAMIN MOORE: RED ROCK 2005-10 OR EQ.	**MEDIUM BRONZE (LRV 10.17)** PAINT MATCH: BENAJMIN MOORE: STONE BROWN 2112-30 OR EQ.

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NO.	ISSUE/REVISION	DATE
	ENTITLEMENT DRAWINGS	12/03/2023

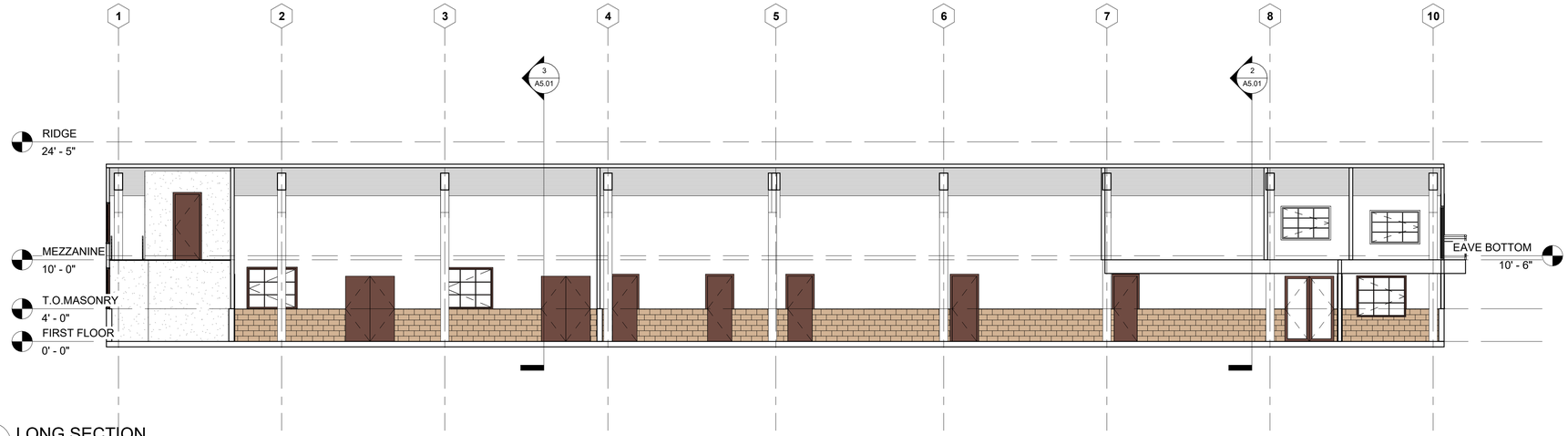
BIG BARN
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

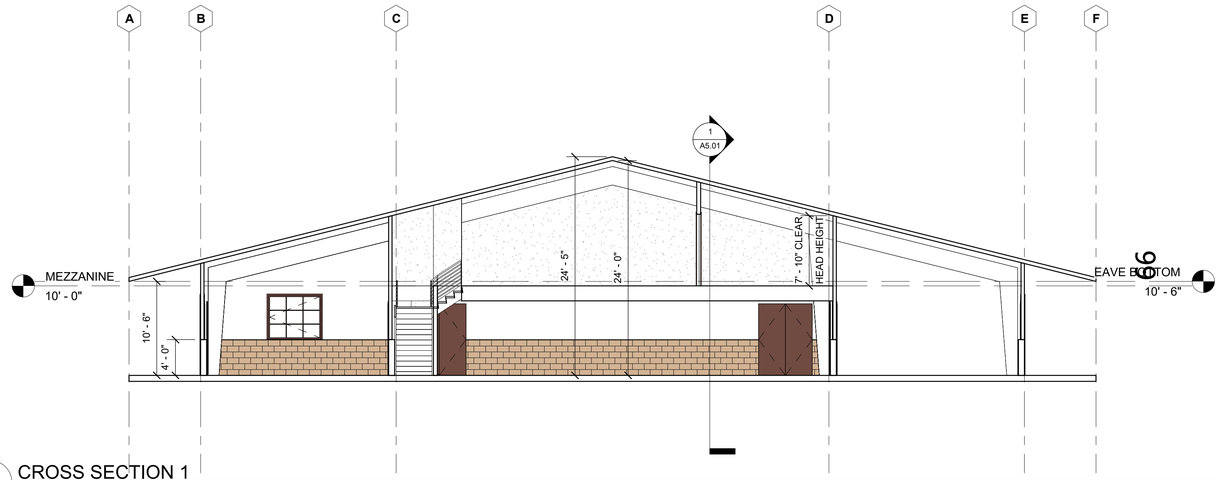
3D AXONOMETRIC VIEWS

DRAWN BY:	Author
CHECKED BY:	Author
DATE:	12/03/2023
SCALE:	1/4" = 1'-0"

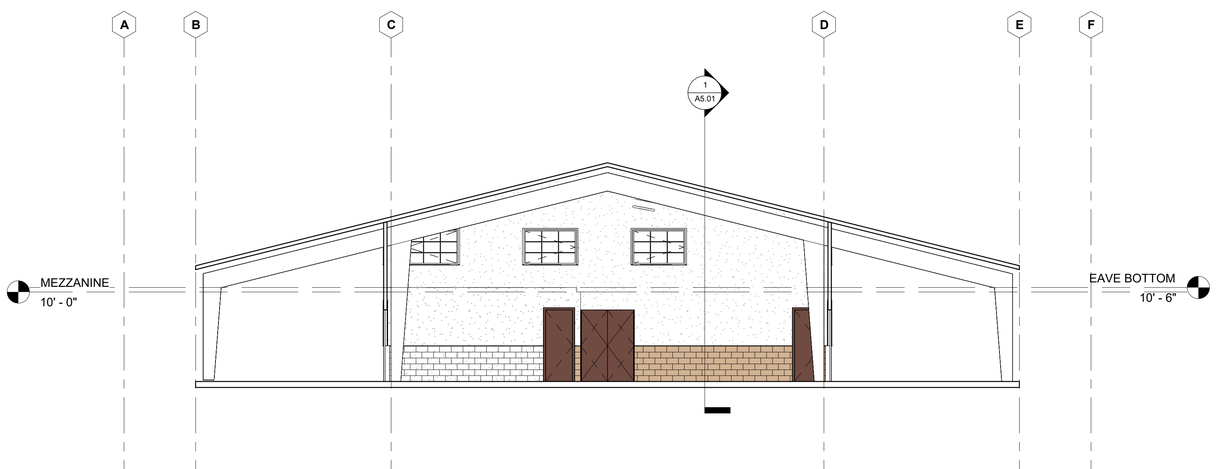
A4.02



1 LONG SECTION
Scale: 1/8" = 1'-0"



2 CROSS SECTION 1
Scale: 1/8" = 1'-0"



3 CROSS SECTION 2
Scale: 1/8" = 1'-0"

1/8" SCALE 16' 8' 6' 4' 2' 0' 16' 32'

PROJECT FOR: GOKULAM, LLC

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NO.	ISSUE/REVISION	DATE
	ENTITLEMENT DRAWINGS	12/03/2023

BIG BARN
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

BUILDING SECTIONS

DRAWN BY:	Author
CHECKED BY:	Author
DATE:	12/03/2023
SCALE:	1/8" = 1'-0"

A5.01

ARCHITECTURAL SYMBOLS

000	GRID LINE
123A / R123A	DOOR IDENTIFICATION / RELITE IDENTIFICATION
A	WINDOW TYPE
1	LOUVER TYPE
1	REVISION
SEE A3.1	MATCH LINE Shaded area is side considered
	WORK POINT, DATUM POINT, CONTROL POINT
1 A5.1	DETAIL Upper mark denotes drawing number Lower mark denotes sheet
1 A5.1	
A A5.1	PARTIAL BUILDING SECTION
A A5.1 / A A5.1	BUILDING CROSS SECTION
1A 1D A7.01 1B 1C	INTERIOR ELEVATION Elevation number denoted in arrow Sheet number denoted in box
ROOM NAME 12345	ROOM IDENTIFICATION
1	CODED NOTE
A1B	WALL TYPE
123456	EQUIPMENT IDENTIFICATION
	DASHED LINE Used to denote items hidden, overhead, not in contract (NIC), or to be removed
	BREAK LINE Material to continue
	CENTER LINE, GRID LINES
	PROPERTY LINE
2075	EXISTING CONTOUR, DISTURBED
2075	NEW CONTOUR
2075	EXISTING CONTOUR, UNCHANGED
16.2	NEW FINISH GRADE
12.5	EXISTING GRADE
TF 12.4	TOP OF FOOTING
TW 17.33	TOP OF WALL
TC 12.42	TOP OF CURB
TP 11.92	TOP OF PAVEMENT

ARCHITECTURAL MATERIALS

DETAIL INDICATIONS

- ACOUSTIC TILE OR BOARD
- ASPHALT CONCRETE PAVING
- ROOFING
- BRICK
- CONCRETE
- PRECAST CONCRETE
- CONCRETE MASONRY UNIT
- EARTH / FINISH GRADE
- GLASS
- GRAVEL
- GYPSUM BOARD
- INSULATION, BATT
- INSULATION, RIGID
- MORTAR, PLASTER, SAND
- MDF
- PLYWOOD
- WOOD, FINISH
- WOOD FRAMING Continuous member
- WOOD FRAMING Interrupted member

PLAN INDICATIONS

- STUD WALL
- BRICK
- CONCRETE MASONRY UNIT
- CONCRETE

ABBREVIATIONS

	ANGLE
	CENTERLINE
#	POUND OR NUMBER
&	AND
@	AT
°	DEGREE
±	PLUS / MINUS
Ø	DIAMETER
A/C	AIR CONDITIONING
AB	ANCHOR BOLT
AC	ASPHALT CONCRETE
ACM	ALUMINUM COMPOSITE PANEL
ACOUS	ACOUSTICAL
AD	AREA DRAIN
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
ADJT	ADJACENT
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
AJ	ACCENT JOINT
AL	ALUMINUM
ALT	ALTERNATE
ANC	ANCHOR(AGE)
ANOD	ANODIZED
APC	ACOUSTICAL PANEL CEILING
APF	ACOUSTICAL PANEL FABRIC
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASB	ASBESTOS
ASPH	ASPHALT
AUTO	AUTOMATIC
AWP	ACOUSTICAL WALL PANEL
BD	BOARD
BET	BETWEEN
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOF	BOTTOM OF FRAME
BOM	BOTTOM OF MASONRY
BOTT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BUR	BUILT UP ROOF
C	COURSES
CAB	CABINET
CB	CATCH BASIN, CHALKBOARD
CC	CUBICLE CURTAIN & TRACK
CEM	CEMENT
CER	CERAMIC
CFB	CEMENT FIBER BOARD
CG	CORNER GUARD
CI	CAST IRON
CIP	CAST-IN-PLACE CONCRETE
CJ	CONTROL JOINT
CLG	CEILING
CLKG	CAULKING
CLO	CLOSET
CLR	CLEAR, COLOR
CMU	CONCRETE MASONRY UNIT
CNR	CORNER
CNTR	COUNTER
CO	CLEANOUT
COL	COLUMN
COMBO	COMBINATION TPD, SNR, & SCD
COMP	COMPOSITION, COMPOSITE
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CRTN	CURTAIN
CT	CERAMIC TILE
CTR	CENTER
CW	CURTAIN WALL
CWP	COMPOSITE WALL PANEL

ABBREVIATIONS

D	DEEP, DEPTH
DBL	DOUBLE
DEMO	DEMOLISH, DEMOLITION
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPOSAL
DIV	DIVISION
DN	DOWN
DP	DAMPPROOF(ING)
DR	DOOR
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DWG	DRAWING
DWR	DRAWER
E	EAST
EA	EACH
EHD	ELECTRIC HAND/ HAIR DRYER
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	ENTRY MAT
EMB	ENAMELIZED MARKING BOARD
EMER	EMERGENCY
ENCL	ENCLOSURE
EP	ELECTRICAL PANELBOARD, EPOXY PAINT
EPT	EPOXY PAINT
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EYEWASH
EWC	ELECTRIC WATER COOLER
EXC	EXCAVATE
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPOSED, EXPANSION
EXT	EXTERIOR
F	FILE (DRAWER)
FA	FIRE ALARM
FAB	FABRICATE
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET (RECESSED)
FEC-S	FIRE EXTINGUISHER CABINET (SEMI-RECESSED)
FF	FACTORY FINISHED
FFL	FINISHED FLOOR LINE
FHC	FIRE HOSE CABINET
FIN	FINISH
FLASH	FLASHING
FLR	FLOOR, FLOORING
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FOSH	FACE OF SHEATHING
FP	FIREPROOF
FR	FIRE RESISTANT
FRMG	FRAMING
FRP	FIBER REINFORCED PLASTIC
FRTW	FIRE RETARDANT TREATED WOOD
FS	FLOOR SINK
FSS	FOLDING SHOWER SEAT
FT	FOOT, FEET
FTG	FOOTING
FURR	FURRING
FUT	FUTURE
FWC	FABRIC WALL COVERING

ABBREVIATIONS

GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GEN	GENERAL
GI	GALVANIZED IRON
GL	GLASS
GLB	GLUE LAMINATED BEAM
GLZ	GLAZING
GMU	GLAZED MASONRY UNIT
GND	GROUND
GR	GRADE
GYP	GYPSUM BOARD (SCHEDULES ONLY)
GYP BD	GYPSUM BOARD
H	HIGH
HB	HOSE BIB
HC	HOLLOW CORE, HANDICAP (ACCESSIBLE)
HD	HEAD
HDW	HARDWARE
HDWD	HARDWOOD
HORIZ	HORIZONTAL
HS	HAND SANITIZER
HSS	HOLLOW STEEL SECTION
HT	HEIGHT
HTG	HEATING
HVAC	HEATING/ VENTILATING/ AIR CONDITIONING
HWH(T)	HOT WATER HEATER (TANK)
I/S	INSIDE
ID	INSIDE DIAMETER (DIM)
IMP	INSULATED METAL PANEL
INCL	INCLUDE
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
INTERCOM	INTERCOMMUNICATION
IRD	IMPACT RESISTANT DOOR
JAN	JANITOR
JST	JOIST
JT	JOINT
KIT	KITCHEN
L	LENGTH, LONG
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LIN	LINOLEUM
LKR	LOCKER
LMS	LIQUID MARKING SURFACE
LT	LIGHT, LEFT
LV	LOUVER
MACH	MACHINE
MAP	MUSIC ACOUSTICAL PANEL
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKING BOARD
MBR	MEMBER
MC	MEDICINE CABINET
MCM	METAL COMPOSITE PANEL
MCSP	MINERAL COMPOSITE SCULPTURAL PANEL
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE, MOP HOLDER
MIN	MINIMUM
MIR	MIRROR
MIR-S	MIRROR W/ SHELF
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MT(D)	MOUNT(ED)
MTL	METAL
MUL	MULLION

ABBREVIATIONS

N	NORTH
NAT	NATURAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O/S	OUTSIDE
OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OCC	OCCUPANT, OCCUPANCY
OD	OUTSIDE DIAMETER (DIM)
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OVERHEAD
OHD	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
PAR	PARALLEL
PB	PEG BOARD
PC	PRECAST
PCC	PORTLAND CEMENT CONCRETE
PCD	PAPER CUP DISPENSER
PERF	PERFORATED
PERP	PERPENDICULAR
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLUMB	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
POL	POLISHED
POS	POSITIVE
PR	PAIR
PREFAB	PREFABRICATE(D)
PREFIN	PREFINISH(ED)
PROJ	PROJECT
PS	PROJECTION SCREEN
PT	POINT, PAINT
PTD	PAPER TOWEL DISPENSER
PTDR	COMBINATION PAPER TOWEL DISPENSER & RECEPTACLE
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE
PVMT	PAVEMENT
PWP	PLASTIC WALL PROTECTION
QT	QUARRY TILE
R	RISER, RADIUS
R&S	CLOSET ROD & SHELF
RAF	RESILIENT ATHLETIC FLOORING
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RDO	ROOF DRAIN, OVERFLOW
REBAR	REINFORCING BAR
RECD	RECEIVED
REF	REFERENCE
REFL	REFLECTED
REFR	REFRIGERATOR
REINF	REINFORCE(D)(ING)
REQD	REQUIRED
RESIL	RESILIENT
RF	ROOF
RFT	RESILIENT FLOORING TILE
RH	ROBE HOOK
RM	ROOM
RO	ROUGH OPENING
RSD	RECESSED SOAP DISPENSER
RSS	RUBBER STAIR STRINGER
RSTR	RUBBER STAIR TREAD / RISER
RT	RIGHT, RUBBER TILE
RWL	RAIN WATER LEADER

ABBREVIATIONS

S	SOUTH
SC	SOLID CORE
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SD	SOAP DISPENSER
SDG	SIDING
SECT	SECTION
SHR	SHOWER
SHT	SHEET
SHTG	SHEETING / SHEATHING
SIM	SIMILAR
SLD	SOLID SURFACE
SLR	SEALER
SND	SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTACLE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSK	SERVICE SINK
STD	STANDARD
STL	STEEL
STN	STAIN
STOR	STORAGE
STRFT	STOREFRONT
STRUCT	STRUCTURAL
SUB	SUBSTITUTE
SUSP	SUSPENDED
SV	SHEET VINYL
SWC	SANITARY WALL COVERING
SYM	SYMMETRICAL
SYS	SYSTEM
T	TREAD, TEE
TB	TOWEL BAR, TACK BOARD
TC	TOP OF CURB
TEL	TELEPHONE
TEMP	TEMPORARY
TERR	TERRAZZO
TF	TOP OF FOOTING
THK	THICK
THRU	THROUGH
TOF	TOP OF FRAME
TOM	TOP OF MASONRY
TP	TOP OF PAVEMENT
TPD	TOILET PAPER DISPENSER
TR	TOWEL RACK
TS	TUBE STEEL
TV	TELEVISION
TVB	TELEVISION BRACKET
TW	TOP OF WALL
TYP	TYPICAL
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UPT	UNGLAZED PORCELAIN TILE
UR	URINAL
USK	UTILITY SINK
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VENT	VENTILATE
VER	VERIFY
VERT	VERTICAL
VEST	VESTIBULE
VOL	VOLUME
VRB	VENTILATING RUBBER BASE
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WEST, WIDE, WIDTH
W/	WITH
W/D	WASHER/DRYER
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WFAP	WOOD FIBER ACOUSTICAL PANEL
WH	WALL HUNG
WP	WATERPROOF, WALL PADS
WPTL	WOOD PRESERVATIVE TREATED LUMBER
WR	WATER REPELLENT
WS	WEATHER STRIPPING
WSCT	WAINSCOT
WT	WEIGHT
WTR	WATER
WWF	WELDED WIRE FABRIC

PROJECT FOR: GOKULAM, LLC

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SEAL & SIGN:

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SIGNATURE

DATE

NO.	ISSUE/REVISION	DATE
	ENTITLEMENT DRAWINGS	12/05/2023

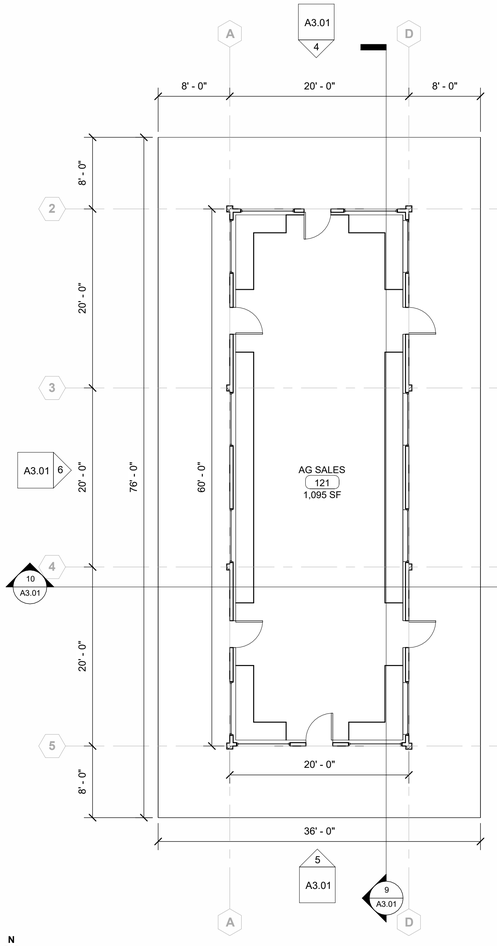
BIG BARN
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

SHEET INDEX, NOTES, AND ABBREVIATIONS

DRAWN BY:	HM
CHECKED BY:	HM
DATE:	12/05/2023
SCALE:	As indicated

A0.01



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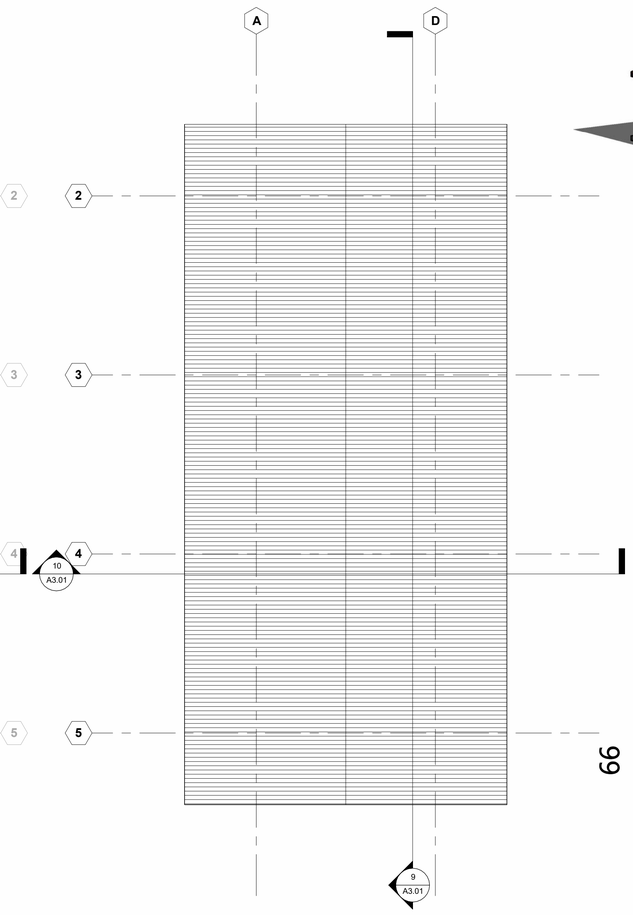

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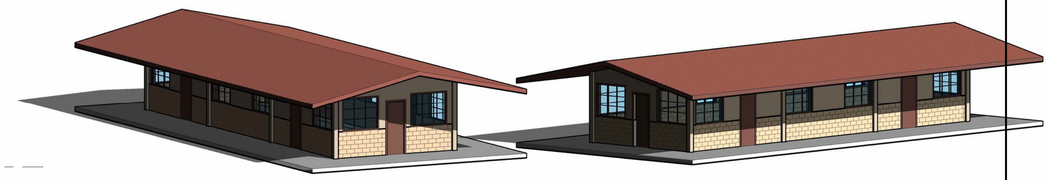
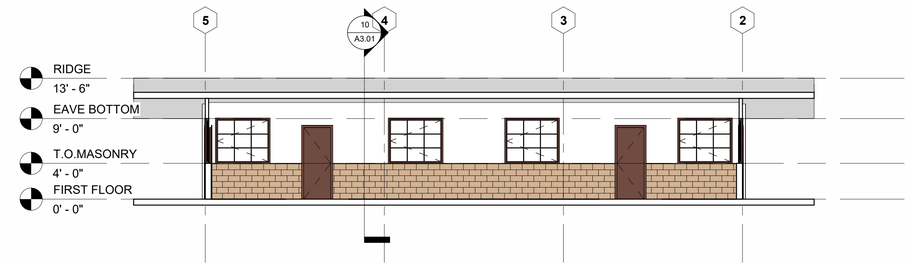


7 3D - NORTHEAST
Scale:

8 3D - SOUTHEAST
Scale:



9 LONG SECTION
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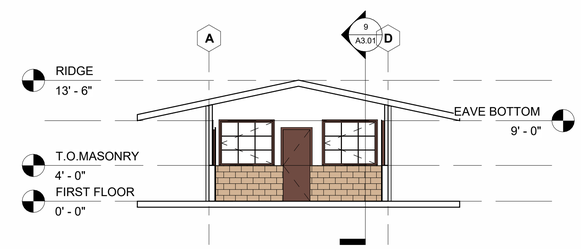

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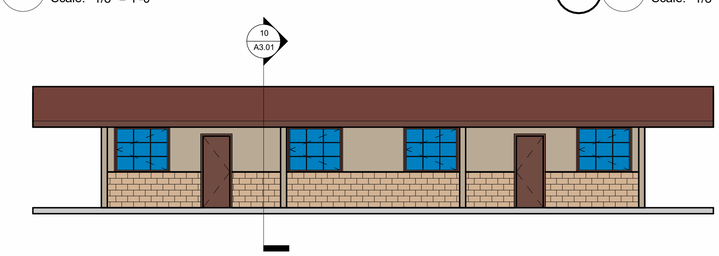

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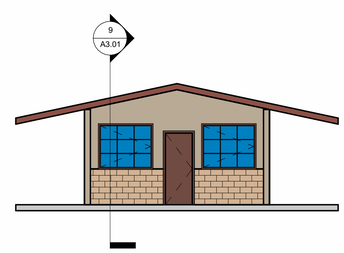

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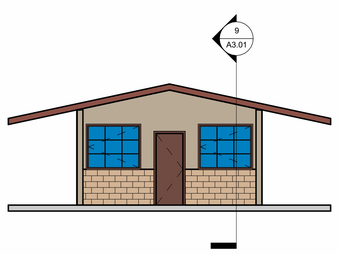

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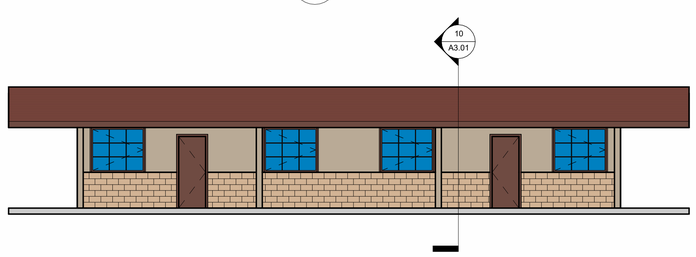

6 WEST
Scale: 1/8" = 1'-0"

COLOR AND MATERIAL LEGEND

WALL CLADDING BROWNSTONE (LRV 19.29) MANUF: METL SPAN STANDARD II EXTERIOR COLORS **STRUCTURAL STEEL** PAINT MATCH BENJAMIN MOORE: RUSTIC TAUPE 999 OR EQ.	**METAL ROOFING** TERRA COTTA (LRV 8.29) MANUF: METL SPAN PREMIUM I EXTERIOR COLORS **DOOR LEAFS** PAINT MATCH BENJAMIN MOORE: RED ROCK 2005-10 OR EQ.	**DOOR & WINDOW FRAMES, & TRIMS, GUTTERS & EAVES** **MEDIUM BRONZE (LRV 10.17)** PAINT MATCH: BENAJMIN MOORE: STONE BROWN 2112-30 OR EQ.

GROSS FLOOR AREA (AG SALES)		
LEVEL	ROOM(S)	GROSS AREA
LEVEL 1 (0'-0")	AG SALES (20'-0" x 60'-0")	1,200 SF
TOTAL ENCLOSED:		**1,200 SF**

LEVEL 1 (0'-0")	COVERED PATIO	1,536SF

1/8" SCALE 16' 8' 6' 4' 2' 0' 16' 32'
0'

PROJECT FOR: GOKULAM, LLC

HMA
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SIGNATURE

DATE

NO.	ISSUE/REVISION	DATE
	ENTITLEMENT DRAWINGS	12/05/2023

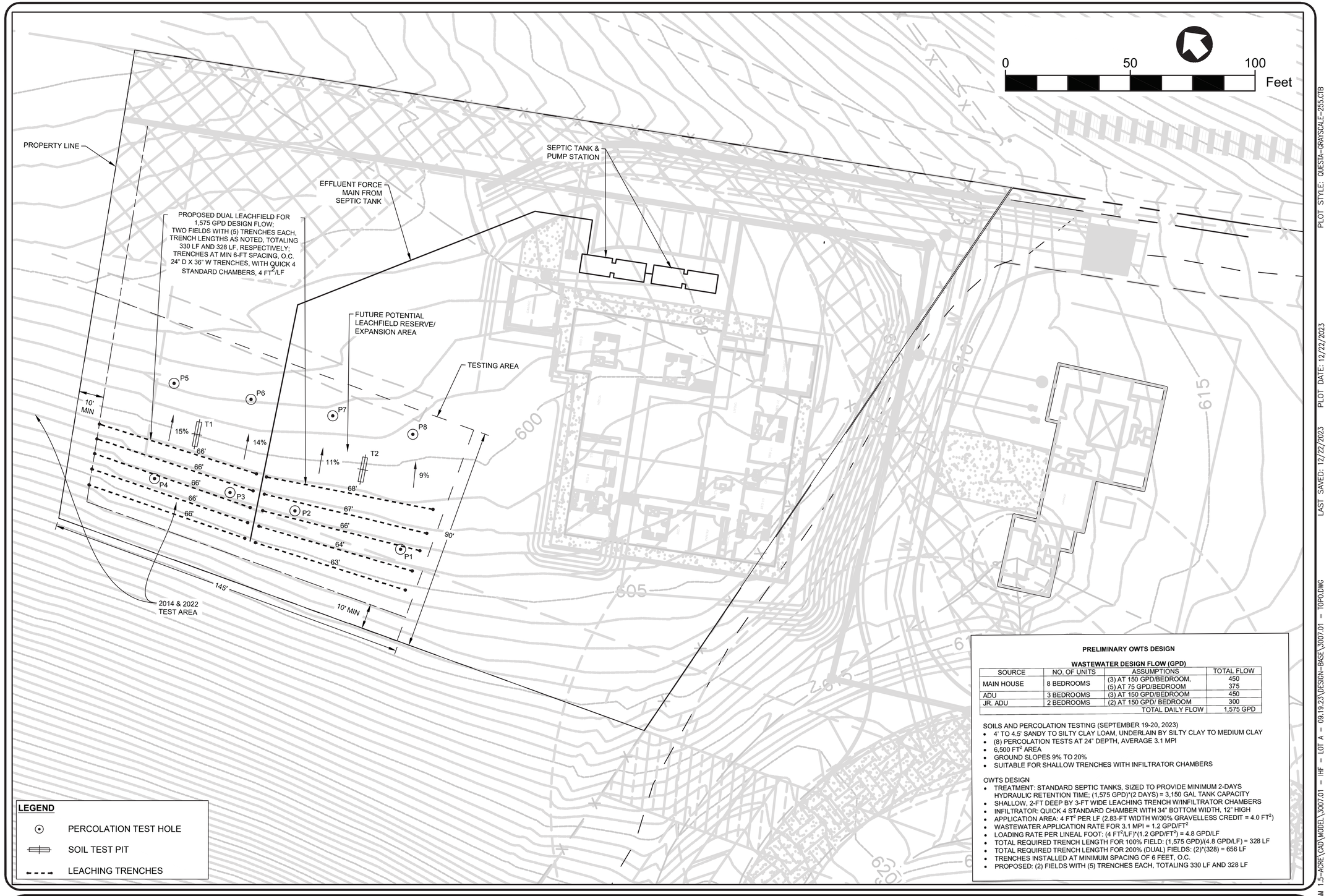
BIG BARN
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

AG SALES - FLOOR PLANS, ROOF PLANS, ELEVATIONS, AND AXONOMETRICS

DRAWN BY: Author
CHECKED BY: Author
DATE: 12/05/2023
SCALE: As indicated

A3.01



PRELIMINARY OWTS DESIGN

WASTEWATER DESIGN FLOW (GPD)

SOURCE	NO. OF UNITS	ASSUMPTIONS	TOTAL FLOW
MAIN HOUSE	8 BEDROOMS	(3) AT 150 GPD/BEDROOM, (5) AT 75 GPD/BEDROOM	450 375
ADU	3 BEDROOMS	(3) AT 150 GPD/BEDROOM	450
JR. ADU	2 BEDROOMS	(2) AT 150 GPD/ BEDROOM	300
		TOTAL DAILY FLOW	1,575 GPD

SOILS AND PERCOLATION TESTING (SEPTEMBER 19-20, 2023)

- 4' TO 4.5' SANDY TO SILTY CLAY LOAM, UNDERLAIN BY SILTY CLAY TO MEDIUM CLAY
- (8) PERCOLATION TESTS AT 24" DEPTH, AVERAGE 3.1 MPI
- 6,500 FT^2 AREA
- GROUND SLOPES 9% TO 20%
- SUITABLE FOR SHALLOW TRENCHES WITH INFILTRATOR CHAMBERS

OWTS DESIGN

- TREATMENT: STANDARD SEPTIC TANKS, SIZED TO PROVIDE MINIMUM 2-DAYS HYDRAULIC RETENTION TIME; (1,575 GPD)*(2 DAYS) = 3,150 GAL TANK CAPACITY
- SHALLOW, 2-FT DEEP BY 3-FT WIDE LEACHING TRENCH W/INFILTRATOR CHAMBERS
- INFILTRATOR: QUICK 4 STANDARD CHAMBER WITH 34" BOTTOM WIDTH, 12" HIGH
- APPLICATION AREA: 4 FT^2 PER LF (2.83-FT WIDTH W/30% GRAVELLESS CREDIT = 4.0 FT^2)
- WASTEWATER APPLICATION RATE FOR 3.1 MPI = 1.2 GPD/FT^2
- LOADING RATE PER LINEAL FOOT: (4 FT^2/LF)*(1.2 GPD/FT^2) = 4.8 GPD/LF
- TOTAL REQUIRED TRENCH LENGTH FOR 100% FIELD: (1,575 GPD)/(4.8 GPD/LF) = 328 LF
- TOTAL REQUIRED TRENCH LENGTH FOR 200% (DUAL) FIELDS: (2)*(328) = 656 LF
- TRENCHES INSTALLED AT MINIMUM SPACING OF 6 FEET, O.C.
- PROPOSED: (2) FIELDS WITH (5) TRENCHES EACH, TOTALING 330 LF AND 328 LF

GOKULAM LLC

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P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

Design:	NH
Drawn:	PS
Checked:	NH
Appr'd:	NH

SOIL & PERCOLATION LOCATIONS & PRELIMINARY LEACHFIELD LAYOUT

APN: 029-34-004

FIGURE

SS1

IF BAR DOES NOT MEASURE 1" DRAWING IS NOT TO SCALE – ADJUST ACCORDINGLY

P:\2023\2300111 GOKULAM 1.5-ACRE\CAD\MODEL\3007.01 – IHF – LOT A – 09.19.23\DESIGN-BASE\3007.01 – TOPO.DWG
LAST SAVED: 12/22/2023 PLOT DATE: 12/22/2023 PLOT STYLE: QUESTA-GRAYSCALE-255.CTB

1

PRELIMINARY OWTS DESIGN FOR BIG BARN, LOT A

WASTEWATER DESIGN FLOW

Wastewater Source	Unit Flow	Sunday-Friday		Saturday		Total Weekly Flow
		No. of Units	Daily Flow, gpd	No. of Units	Daily Flow, gpd	gal/week
Pickle Jar/Tasting meals*	2.5 gal/Jar or meal	750	1,875	750	1,875	13,125
Day workers, w/shower	35 gal/worker	2	70	4	140	560
Volunteers & customers	5 gal/person	7	35	116	580	790
Livestock, floor drains	8 gal/cow	25	200	25	200	1,400
	Total Daily Flow, gpd		2,180		2,795	15,875
	With Flow Equalization - Average Daily Design Flow, gpd					2,268

*Typical pickle jar of 17.6 ounces/500 grams and pickle tasting meals of 15-20 ounces/meal

SOILS AND PERCOLATION TESTING – BY LE ENGINEERING (3/13/2020)

- 36" SANDY CLAY LOAM SURFACE SOIL, GRAVELLY SANDY LOAM SUBSOIL TO 16-FT DEPTH, WITH INCREASING ROCKS, SAND AND SOME CLAY; NO GROUNDWATER ENCOUNTERED TO 16 FEET.
- (6) PERCOLATION TESTS AT 5' AND 6' DEPTH, AVERAGE RATE: 17.2 MPI
- GROUND SLOPE 19 TO 24%
- SUITABLE FOR STANDARD TRENCH DESIGN WITH OR WITHOUT SUPPLEMENTAL TREATMENT

OWTS DESIGN

- SECONDARY (ADVANTEX) TREATMENT SYSTEM WITH 6-FT DEEP, 2-FT WIDE STANDARD LEACHING TRENCHES
- GREASE INTERCEPTOR FOR KITCHEN WASTEWATER, TANK VOL.
  = (750 MEALS/DAY)*(2.5 GAL/MEAL)*(2.5 Onsite Factor) = 4,688; USE 5,000 GAL TANK
- SEPTIC TANK: (3)*(2,795 GPD) = 8,385 GAL MIN FOR USE WITH ADVANTEX; USE (3) 3,000-GAL TANKS IN SERIES FOR 9,000-GAL CAPACITY
- EMERGENCY STORAGE – EQ PUMP TANK: SEE SPREADSHEET EQ AND STORAGE CALCULATIONS; 5,000-GAL TANK REQUIRED
- SECONDARY TREATMENT UNIT:
  - ✓ ADVANTEX TEXTILE FILTER
  - ✓ USE AX-100, 2,500 GPD CAPACITY (DESIGN FLOW 2,268 GPD)
- EFFLUENT DOSING PUMP SYSTEM: 1,200-GAL PUMP TANK W/DUPLEX SUBMERSIBLE EFFLUENT PUMPS CAPABLE OF 200-FT LIFT AT 20 GPM
- LEACHFIELD SYSTEM:
  - ✓ STANDARD GRAVITY TRENCHES FED FROM D-BOX RECEIVING 20 GPM FLOW FROM TREATMENT AREA DOSING PUMP
  - ✓ WASTEWATER APPLICATION RATE (ENHANCED) FOR 17.2 MPI = 1.2 GPD/SF
  - ✓ TRENCH DIMENSIONS: 6-FT DEEP, 2-FT WIDE, 1 FT MIN ROCK BELOW PIPE
  - ✓ EFFECTIVE APPLICATION AREA: 4 SF/LF
  - ✓ WASTEWATER LOADING RATER PER LF: (4)*(1.2) = 4.8 GPD/LF
  - ✓ REQUIRED 100% TRENCH LENGTH: (2,268 GPD)/(4.8 GPD/LF) = 473 LF PER FIELD
  - ✓ PROVIDE TWO EQUAL FIELDS OF 480 LF EACH, 960 LF TOTAL (200%)

EACH LEACHFIELD TO CONSIST OF (8) 60-FT LONG TRENCHES

Gokulam Lot A - Barn Wastewater System

Wastewater Flow Equalization Calculations						EQ-Emergency Storage Tank Volume Calculations			
Day	Peak Daily Flow (gpd)	Total Available for Discharge (gal)	Disharge to Treatment & Leachfield (gal)	Volume to Storage (gal)	Total Surge Storage Volume (gal)	Emergency Storage for Next Day Flow (gal)	Min Storage (8" depth at 69.45 gal/inch)	Dose Vol (5 min at 20 gpm)	Total Required Tank Volume (gal)
Initial					0	4,193	556	100	4,849
Sat	2,795	2,795	2,268	527	527	3,270	556	100	4,453
Sun	2,180	2,707	2,268	-88	439	3,270	556	100	4,365
Mon	2,180	2,619	2,268	-88	351	3,270	556	100	4,277
Tues	2,180	2,531	2,268	-88	263	3,270	556	100	4,189
Wed	2,180	2,443	2,268	-88	175	3,270	556	100	4,101
Thur	2,180	2,355	2,268	-88	87	3,270	556	100	4,013
Fri	2,180	2,267	2,268	-88	0	4,193	556	100	**4,849**
Sat	2,795	2,795	2,268	527	527	3,270	556	100	4,453
Sun	2,180	2,707	2,268	-88	439	3,270	556	100	4,365
Mon	2,180	2,619	2,268	-88	351	3,270	556	100	4,277
Tues	2,180	2,531	2,268	-88	263	3,270	556	100	4,189
Wed	2,180	2,443	2,268	-88	175	3,270	556	100	4,101
Thur	2,180	2,355	2,268	-88	87	3,270	556	100	4,013
Fri	2,180	2,267	2,268	-88	0	4,193	556	100	**4,849**
Sat	2,795	2,795	2,268	527	527	0	556	100	1,741

Jensen 5,000-gal holding tank at 69.45 gal/inch*74 inches total to inlet invert = 5,135 gal available storage

LAST SAVED: 5/14/2024 PLOT DATE: 5/14/2024 PLOT STYLE: C:\USERS\DWILK\APPDATA\ROAMING\AUTODESK\CAD STYLES\TEST.CTB

P:\2023\2300132 GOKULAM LOT A\CAD\MODEL\300701 – HF – LOT A – 09.19.23\2300132 GOKULAM LOT A.DWG

1" BAR DOES NOT MEASURE 1" DRAWING IS NOT TO SCALE – ADJUST ACCORDINGLY

GOKULAM LOT A

OLD CALAVERAS RD, MILPITAS, CA

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P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

Sht:	Rev:	Date:	By:	Description:	App'd:
	1	5/14/24	MN	REVISED VISITORS/FLOWS	NH

Design: NH
Drawn: PS
Checked: NH
Appr'd: NH

ONSITE WASTEWATER TREATMENT & DISPOSAL PLAN

BIG BARN & AGR. SALES

Size: D
Project: 2300132
Scale: AS NOTED
Date: 11/21/23
Sheet: SS2