GOKULAM, LLC

LOT B DESIGN REVIEW

APN: 029-34-004

OWNER/DEVELOPER:

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

CIVIL ENGINEER:

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

SURVEYOR

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

SEPTIC

LC ENGINEERING
598 E. SANTA CLARA ST. , SUITE #270
SAN JOSE, CA 95112
OFFICE: (510) 236-6114 EXT. 211

ARCHITECT

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

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

ADDRESS:	2425 OLD CALAVERAS ROAD, MILPITAS, CA 95035
ZONING DESIGNATION:	D2 - HS - HILLSIDE
APN:	029-34-004
LOT SIZE:	78.93 ACRES (3,438,191 SQ. FT.)

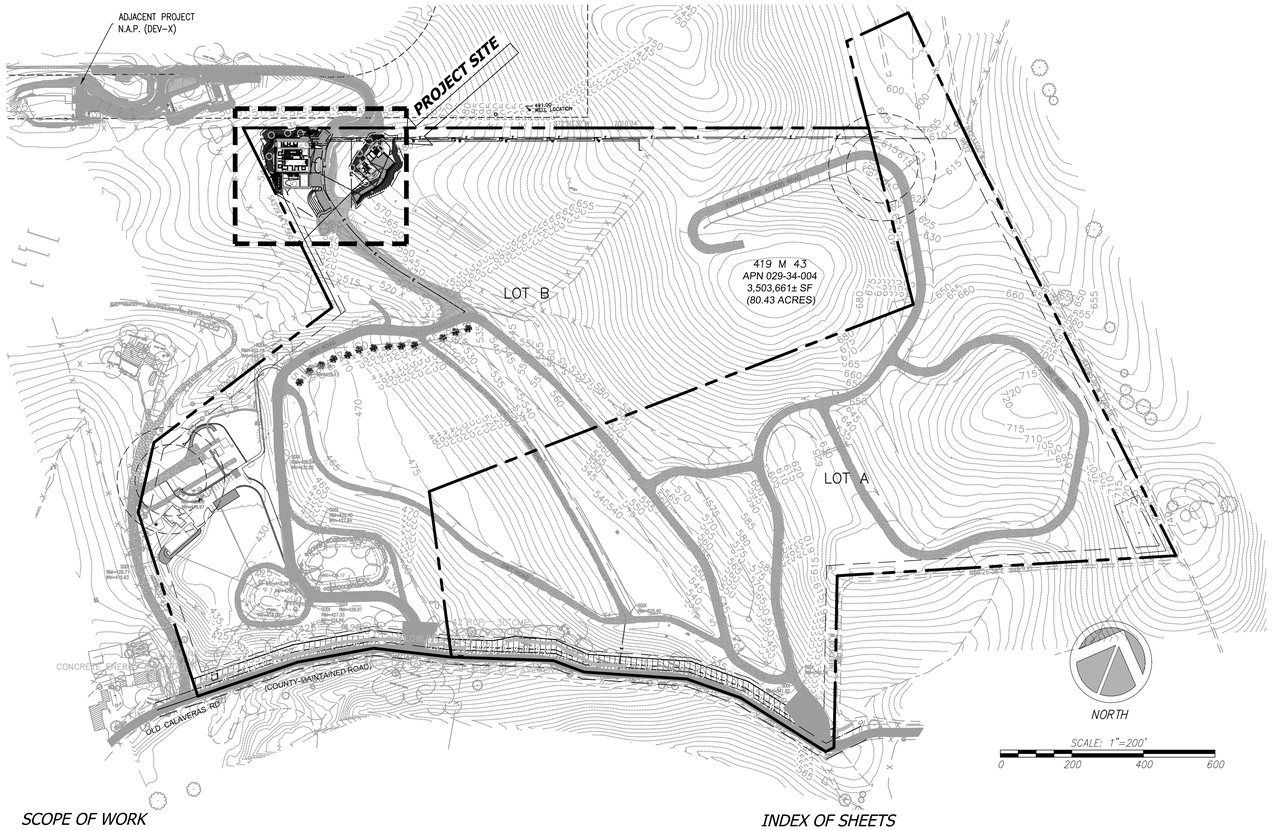
APPLICABLE CODES

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



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 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) 7990 SQ. FT OF GROSS FLOOR AREA FOR PRIMARY HOUSE
- (N) 1689 SQ. FT OF GROSS FLOOR AREA FOR ADU AND JADU
- (N) 400 SQ. FT OF DETACHED GARAGE

KEY POINTS TO NOTE ABOUT THE PROPOSED SCOPE OF WORK:

- THE ACCESS ROAD COMING UP FROM OLD CALAVERAS ROAD UNTIL THIS BUILDING SITE IS SHARED WITH THE ROADS THAT ARE BEING BUILT UNDER PLN22-006 FOR OUR NEIGHBOR'S BARSANA RESIDENCE WHICH IS ALMOST READY TO GO FOR ZONING ADMINISTRATION HEARING. WE HAVE AN EASEMENT AGREEMENT WITH BARSANA LLC TO SHARE THIS ACCESS ROAD FOR BOTH PROPERTIES. WE HAVE INCLUDED THE ROAD PROFILES AND DETAILS FOR THE PORTION OF THE ROAD THAT IS SHARED BETWEEN THESE TWO APPLICATIONS.
- THE GRADING QUANTITIES INCLUDED IN THIS PROJECT ARE INCREMENTAL REQUIRED FOR ESTABLISHING THE BUILDING SITES AND THE DRIVEWAYS OF THE PRIMARY HOUSE AND ADU / JADU.
- THIS LOCATION FOR THE PROJECT WAS CHOSEN AS IT MINIMIZES GRADING QUANTITIES REQUIRED TO ESTABLISH THESE STRUCTURES.
- APPROVED SEPTIC SYSTEM (SR0853368) AND DRINKING WATER CLEARANCE (SR0865661) ALREADY INCLUDED PROVISION FOR THE PRIMARY HOUSE AND ADU/JADU INCLUDED IN THIS APPLICATION.
- THE VISUAL ANALYSIS HAS BEEN UPDATED TO SHOW THESE STRUCTURES.

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 THE PROPERTY. WE HAVE INCLUDED A COMPREHENSIVE LIST OF ALL EXISTING, PROPOSED, REGULARISED, UNDER VIOLATION AND FUTURE IMPROVEMENTS AS OUTLINED BELOW.

AS PART OF PLANNING APPLICATION PLN20-125 WE HAVE RECEIVED GRADING APPROVAL/ DESIGN REVIEW ADMINISTRATIVE APPROVAL FOR THE INFRASTRUCTURES REQUIRED FOR OUR OPERATIONS AND THE BUILDING PERMIT APPLICATIONS (AR23:1185) HAVE BEEN SUBMITTED FOR THE FOLLOWING:

- (N) 1490 SQ. FT OF ENCLOSED AREA FOR AGRICULTURE SHED
- (N) 2065 SQ. FT OF ENCLOSED AREA FOR LIVESTOCK SHELTER BUILDING
- (N) 500 SQ. FT OF ENCLOSED AREA FOR FEED STORAGE SHED
- (N) 1750 SQ. FT OF CARPORT FOR HOUSING AGRICULTURAL VEHICLES
- (N) 402 SQ. FT OF ENCLOSED AREA FOR WORKSHOP AND WELL SHED

THE SITE HAS 6 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
- (N) 202,290 GALLON STEEL TANK FOR FIREFLOW & IRRIGATION (DEV23-0115)

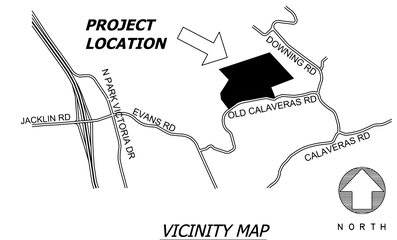
WE HAVE A SPECIAL PERMIT APPLICATION IN PROGRESS FOR ONE 1200 SQ. FT. (N) SMALL SCALE PERMANENT AG EMPLOYEE HOUSING (PLN22-234)

EXISTING IMPROVEMENTS THAT ARE GOING TO REMAIN ARE LABELLED AS EXISTING.
EG: "EXISTING TOOL SHED TO REMAIN"

EXISTING IMPROVEMENTS THAT ARE UNDER VIOLATIONS AND THAT ARE GOING TO REMAIN AND WILL BE REGULARIZED IS CALLED OUT AS '5 EXISTING WELL SHED TO BE REGULARIZED' REF SHEET C0.1 & C1.1 (PLEASE CHANGE THE SHEET NUMBERS ACCORDINGLY)

EXISTING IMPROVEMENTS THAT ARE UNDER VIOLATIONS AND THAT WILL BE DEMOLISHED ARE CALLED OUT AS EXISTING SHELTER TO BE DEMOLISHED (REF SHEET C0.1). SHEET C1.1 SHOWS THE EXISTING BUILDING NUMBERS 1,2,3,4,6 & 7 TO BE DEMOLISHED (VIOLATION VIO19-00082)

INDEX OF SHEETS



VICINITY MAP
SCALE: NTS

CONTRACTOR RESPONSIBILITY

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

DISCREPANCIES

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

CONSTRUCTION SURVEYING / STAKING

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

ADDITIONAL NOTES

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

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

- NO TREE REMOVAL IS PROPOSED.

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

USA NORTH 811
Call 811 Before You Dig

REVISIONS	BY

COVER

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

C2G /CIVIL CONSULTANTS GROUP, INC.
Engineers/Planners
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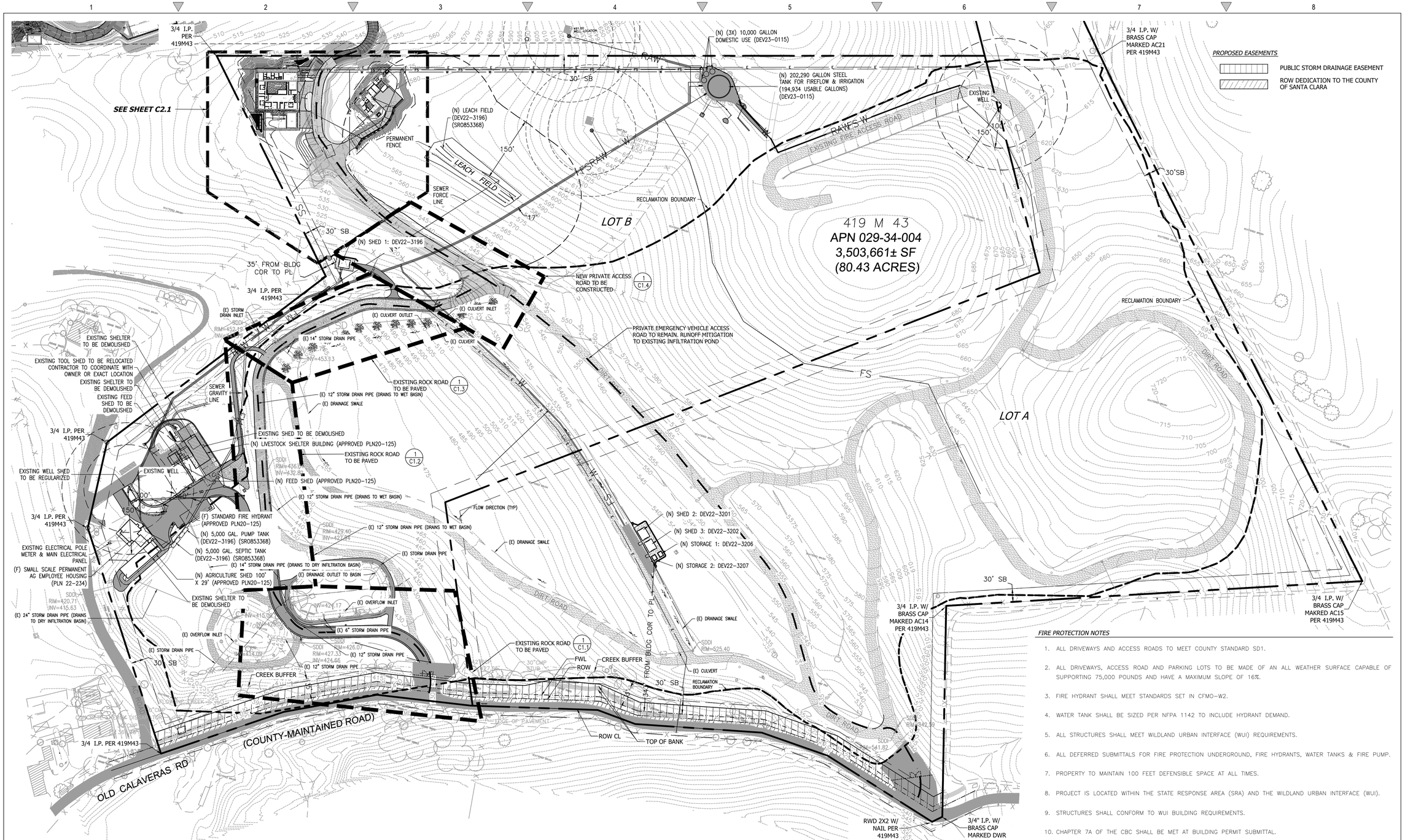

ABBREVIATIONS

CENTERLINE	CL	STORM DRAIN	SD
MINIMUM	MIN	SANITARY SEWER CLEAN OUT	CO
MONUMENT	MON	SANITARY SEWER EASEMENT	SSE
MONUMENT WELL	MW	SANITARY SEWER/LATERAL	LAT
NAIL AND SHINER	N/S	STATION	STA
NOT TO SCALE	NTS	SIDEWALK	SW
OVERHEAD	OH	TOP OF BANK	TB
ORIGINAL GROUND	OG	TOP OF CURB	TC
PAVEMENT FINISH GRADE	PVG	TEMPORARY	TEMP
PAD ELEVATION	PAD	TOP OF GRATE	TG
PATHWAY EASEMENT	PWE	TREE PROTECTION FENCE	TPF
PROPERTY LINE	PL	TOP OF WALL	TW
POWER POLE	PP	TYPICAL	TYP
PAVEMENT	P	UTILITY VAULT	UV
POLYVINYL CHLORIDE	PVC	WATER	W
RADIUS	R	WALKWAY	WLK
RETAINING WALL	RW	WATER METER	WM
REMOVE	(R)	WATER VALVE	WV
RIGHT OF WAY	ROW	ONSITE WASTEWATER	OSWW

LEGEND

RECLAMATION LINE		SANITARY SEWER CLEANOUT	CO
RECYCLING CUP BOUNDARY		SANITARY SEWER MANHOLE	SS
PROPERTY LINE		STORM DRAIN MANHOLE	SD
LOT LINE		STORM DRAIN INLET	
EASEMENT LINE		WATER METER	WM
EDGE OF PAVEMENT		ELECTRICAL METER VALVE	EV
UTILITY LINE		FIRE HYDRANT	
ROADSIDE SIGN & SIGN CODE	R1	STREET LIGHT	
FENCE	— X — X — X —	POWER POLE	
TREE/SHRUB		PULL BOX	
CONTOUR LINES	530	SECTION NUMBER	1
STANDARD MONUMENT		SHEET NUMBER	C2.1
BENCH MARK			

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. PROJECT IS LOCATED WITHIN THE STATE RESPONSE AREA (SRA) AND THE WILDLAND URBAN INTERFACE (WUI).
9. STRUCTURES SHALL CONFORM TO WUI BUILDING REQUIREMENTS.
10. CHAPTER 7A OF THE CBC SHALL BE MET AT BUILDING PERMIT SUBMITTAL.
11. DEFENSIBLE SPACE SHALL BE MAINTAINED AT ALL TIMES.
12. PRC-4290 COMPLIANCE SHALL BE REVIEWED BY CAL FIRE.

WELL SCHEDULE

EXISTING WELL	WELL NUMBER	DRINKING WATER CLEARANCE SR NUMBER	SERVING AREA	APPLICATION NUMBER	APN NUMBER
1	06S01E04A001	SR0865661	LOT B (GOKULAM) WATER SERVICE FOR PRIMARY RESIDENCE, ADU, JADU	PLN23-144	029-34-004
			SMALL SCALE PERMANENT EMPLOYEE HOUSING	PLN22-234	
2	05S01E33K001	SR0867334	LOT A (GOKULAM) WATER SERVICE FOR PRIMARY RESIDENCE, ADU, JADU, AND LIVESTOCK SHED	PLN24-017	029-34-004
3	05S01E33L002	SR0870797	LOT A (GOKULAM) WATER SERVICE FOR BIG BARN AND AGRICULTURAL SALES	PLN24-017	029-34-004
4	05S01E33L001	SR0870798	LOT 15 (BARSANA) WATER SERVICE FOR PRIMARY RESIDENCE, ADU, JADU, AND LIVESTOCK SHED / GREEN HOUSE	PLN22-006	029-35-007

REVISIONS	BY

OVERALL SITE PLAN

REGISTERED PROFESSIONAL ENGINEER
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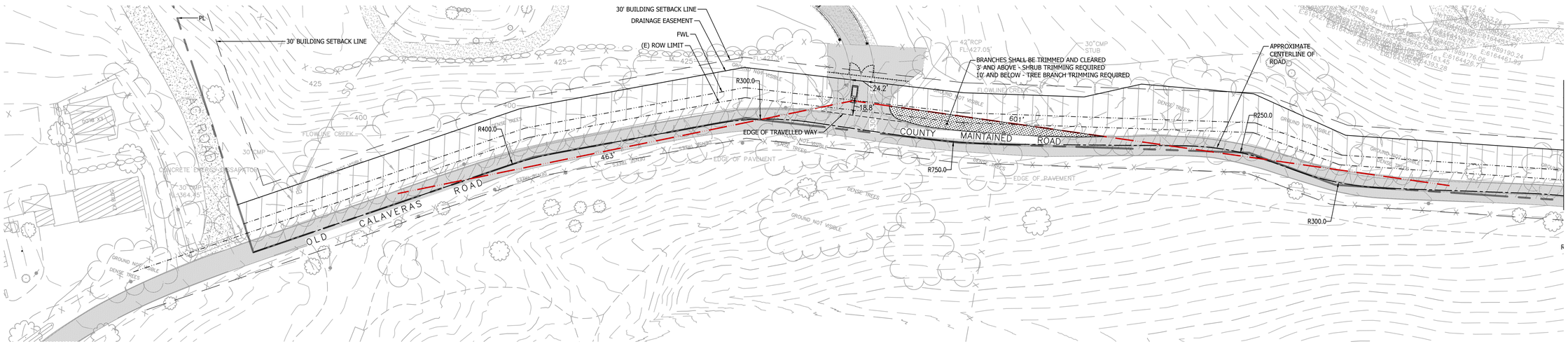


1 ENTRANCE - SIGHT DISTANCE ANALYSIS

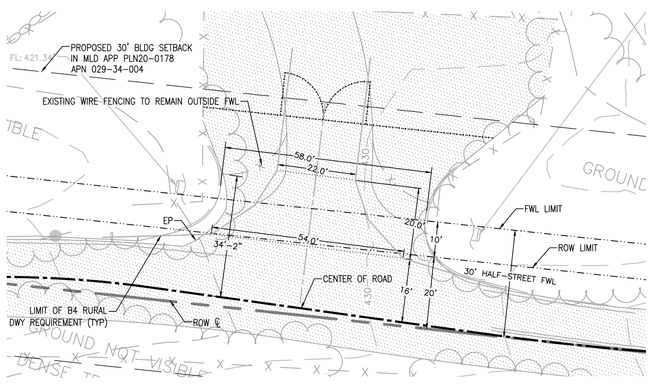
Scale: 1":50'

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

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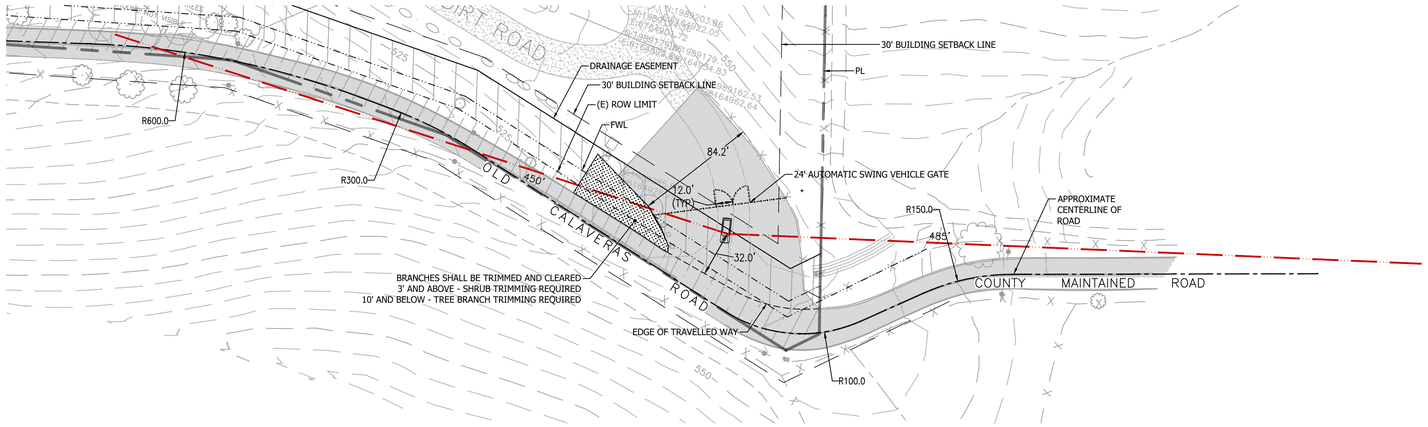

1 ENTRANCE - SITE DISTANCE ANALYSIS

Scale: 1":50'

NOTES

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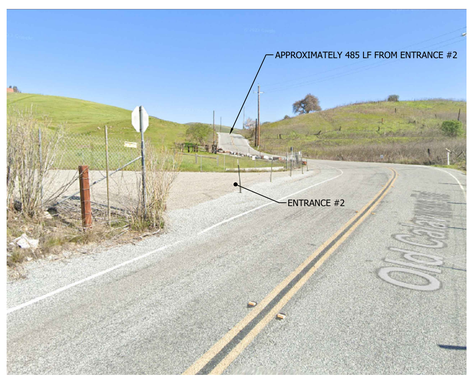
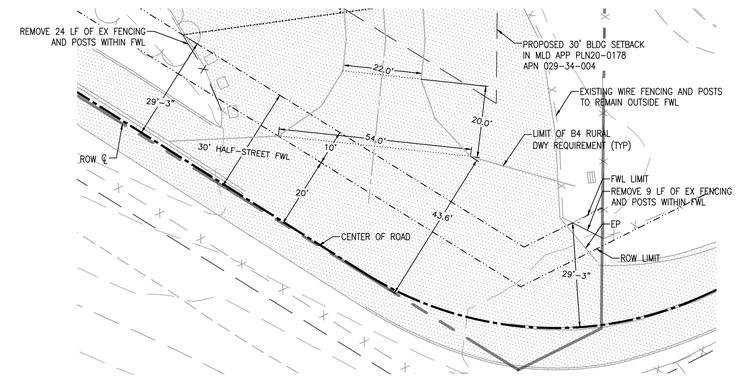


EAST BOUND

WEST BOUND

2 ENTRANCE #2 - IMAGES

Scale: NTS



3 EXISTING DRIVEWAY CONFORMANCE TO B4 COUNTY STANDARD

Scale: 1":20'

REVISIONS	BY

SIGHT DISTANCE ANALYSIS

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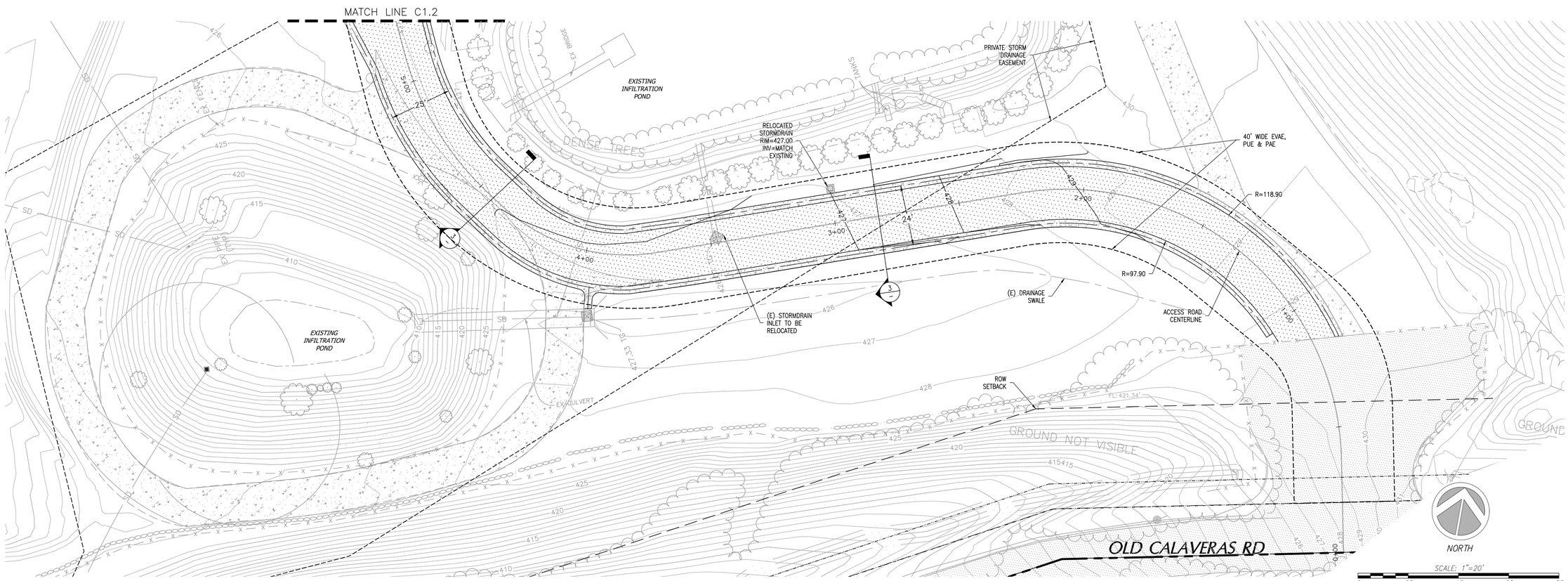
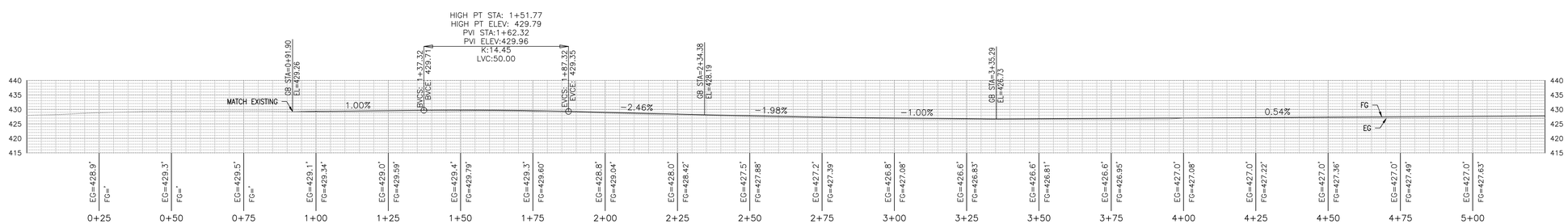


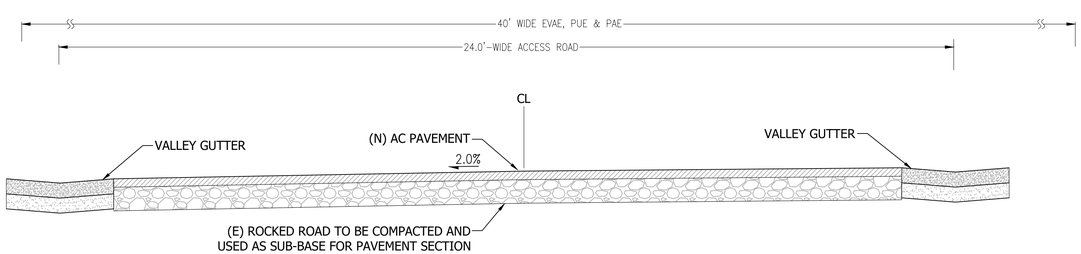
1 EXISITNG ACCESS ROAD PLAN

Scale: 1:20



2 ACCESS ROAD PROFILE - STA. 0+00 TO 5+25

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. 6/30/25
CIVIL
STATE OF CALIFORNIA

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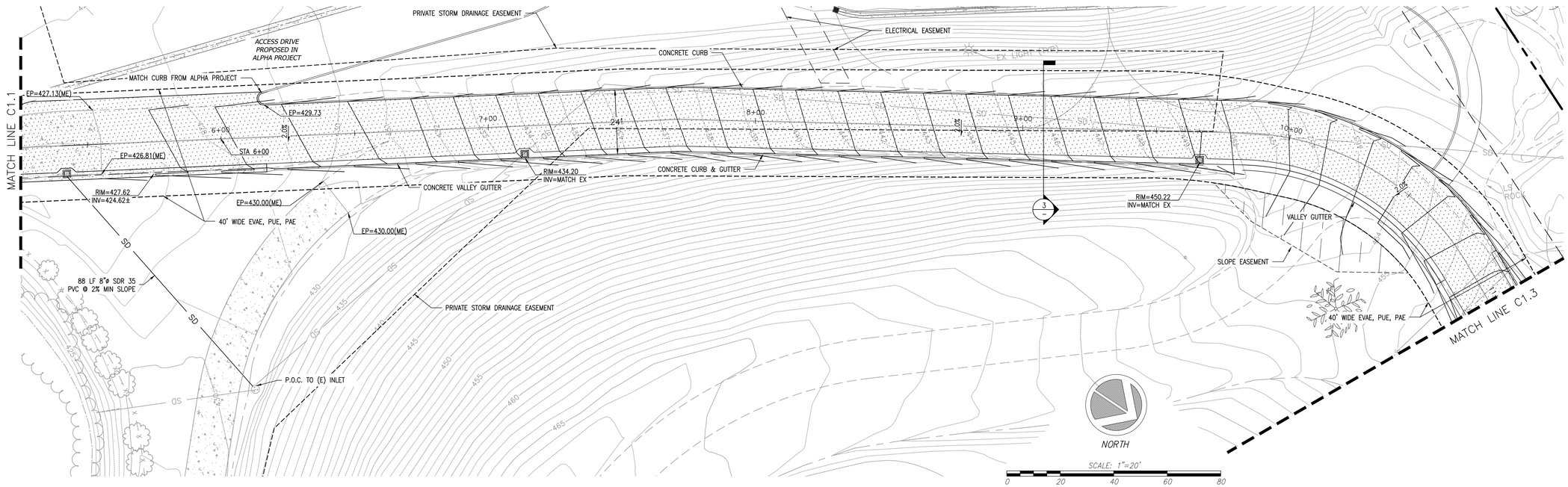
GOKULAM, LLC.
LOT B – DESIGN REVIEW
2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

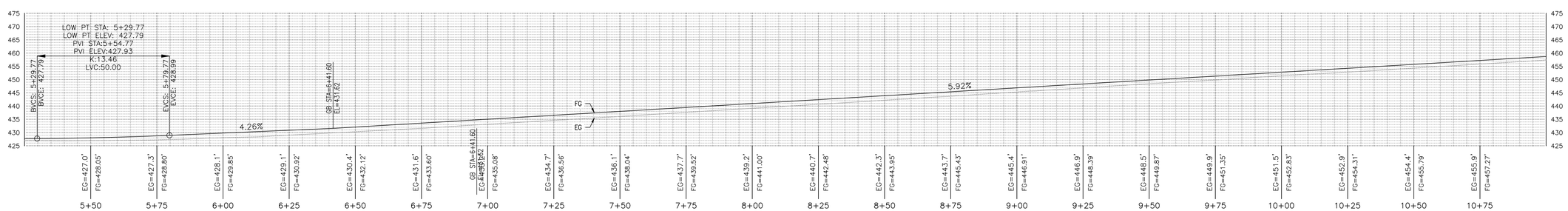
Date:	11/10/2023
Scale:	1" = 20'
Drawn:	DD/ESM
Job:	3007.05
Sheet:	C1.1
	Of 39 Sheets

Drawing: Z:\Drawing\CAD\Sheets\3007.02 – C1.1 – EX PROFILES, SECTIONS ACCESS ROAD.dwg Layout: C1.1 – EX ACCESS RD PMP Last Saved: Tue May 28, 2024 – 11:22am Last Plotted: Tue May 28, 2024 – 1:19pm By: EricSandeligue



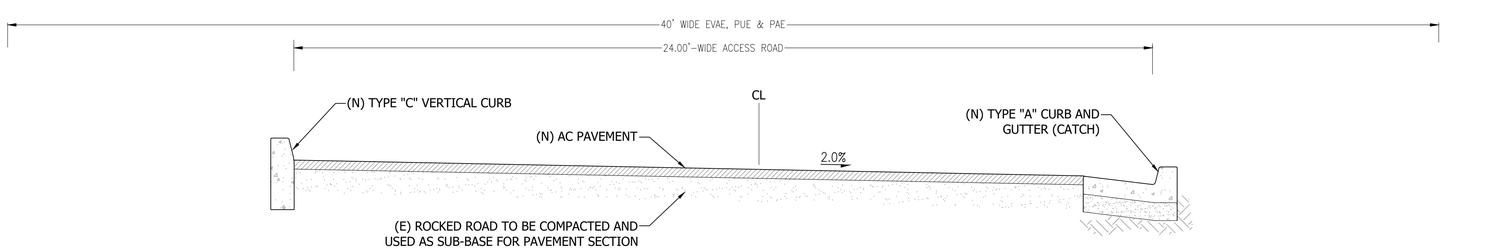
1 PROPOSED ACCESS ROAD PLAN

Scale: 1:20



2 ACCESS ROAD PROFILE - STA. 5+25 TO 11+00

Scale: 1:20



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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Drawn:	DD/ESM
Job:	3007.05
Sheet:	C1.2

Of 39 Sheets

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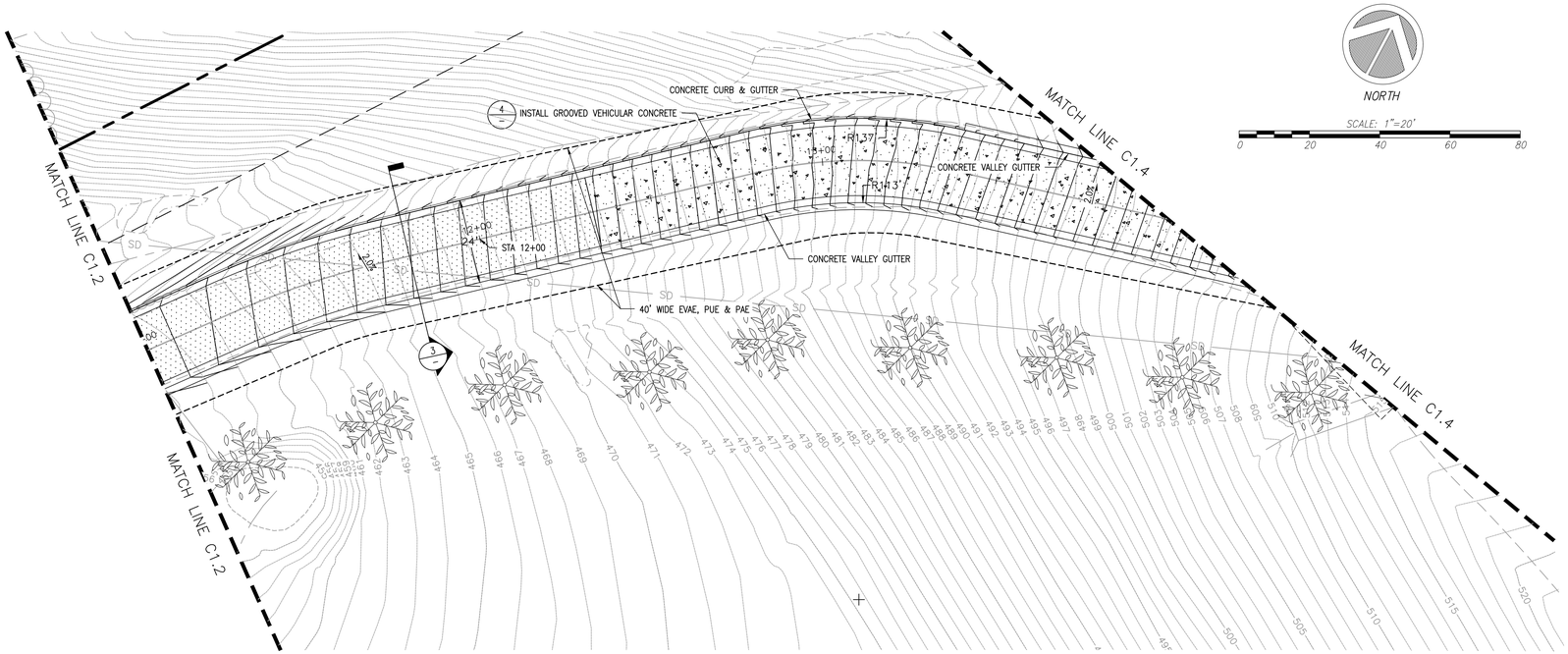
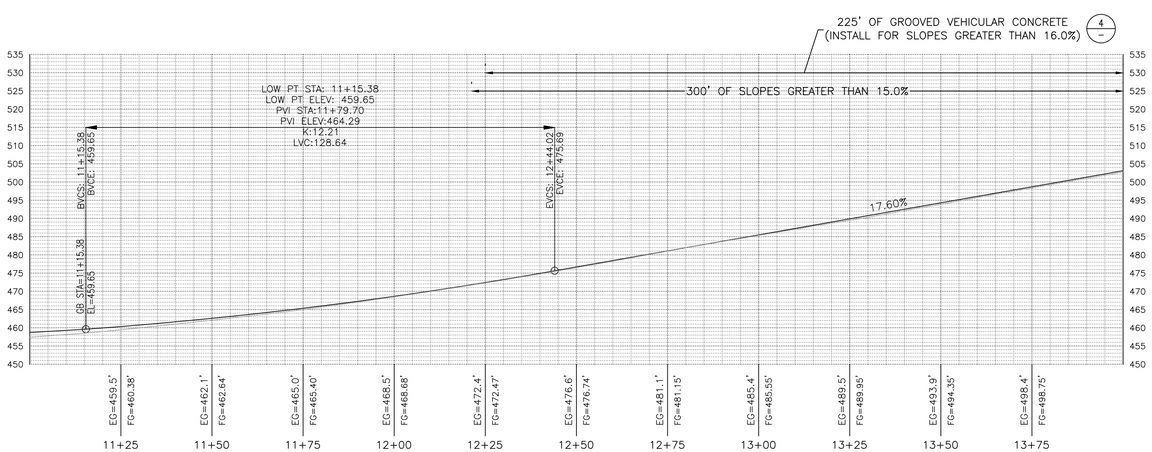


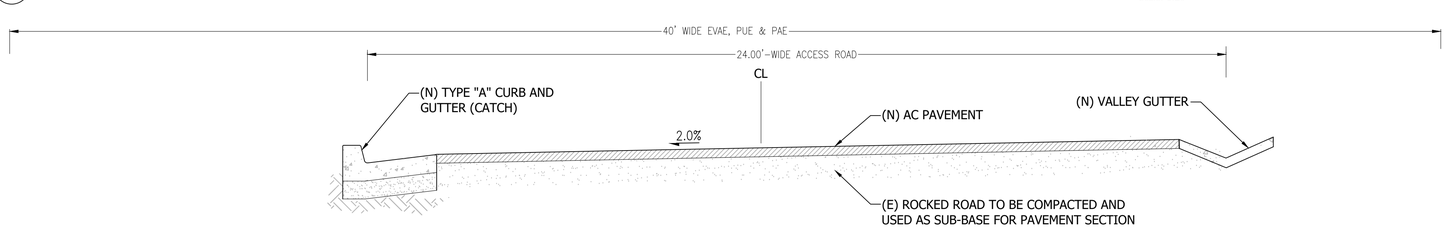
1 PROPOSED ACCESS ROAD PLAN

Scale: 1:20



2 ACCESS ROAD PROFILE - STA. 11+00 TO 14+00

Scale: 1:20

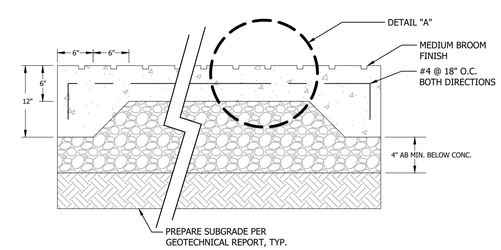


3 24'-WIDE ACCESS ROAD SECTION

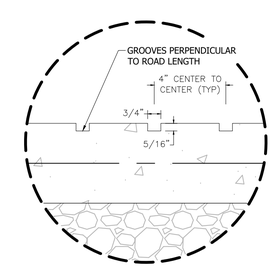
Scale: 1":2'

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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Drawn:	DD/ESM
Job:	3007.05
Sheet:	C1.3

Of 39 Sheets

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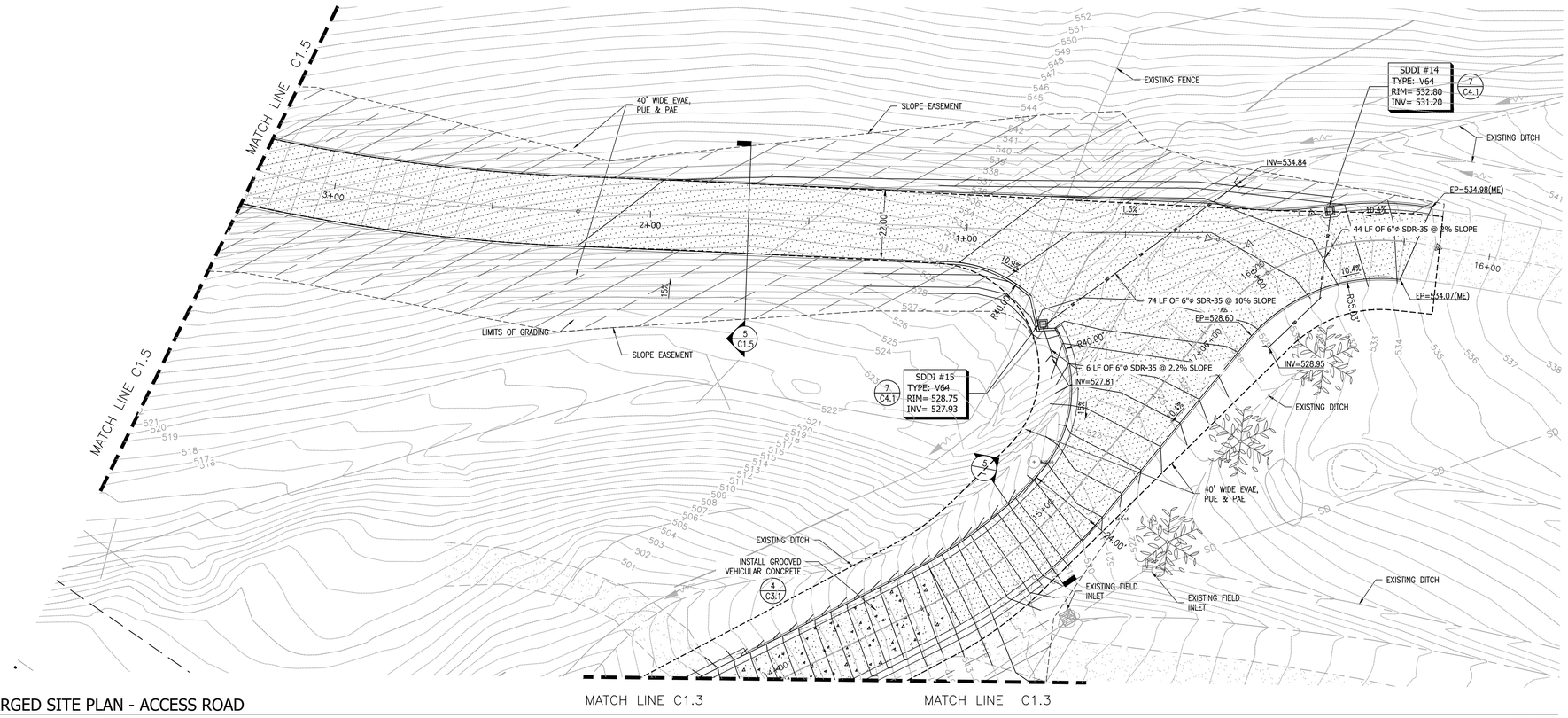


1 ENLARGED SITE PLAN - ACCESS ROAD

Scale: 1":20'

LEGEND

- (N) AC
- PROPERTY LINE
- (N) STORM DRAIN PIPE
- (E) TREE
- PROPOSED CONTOUR
- (N) RETAINING WALL
- DRAINAGE DIRECTIONAL ARROW

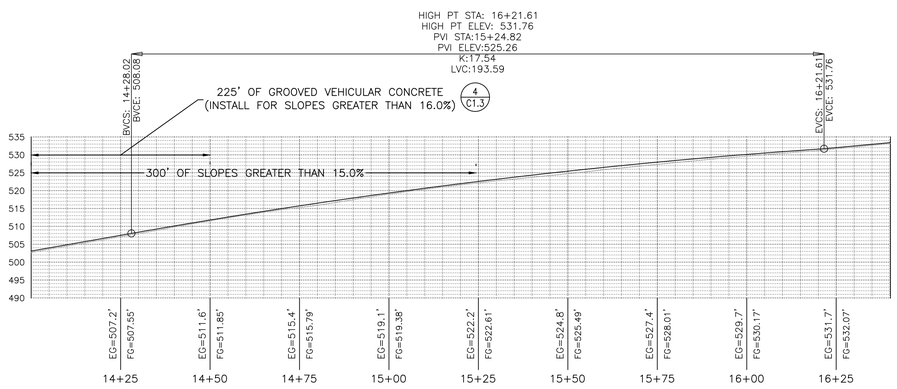
TREE INSTALLATION NOTES:

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

NORTH

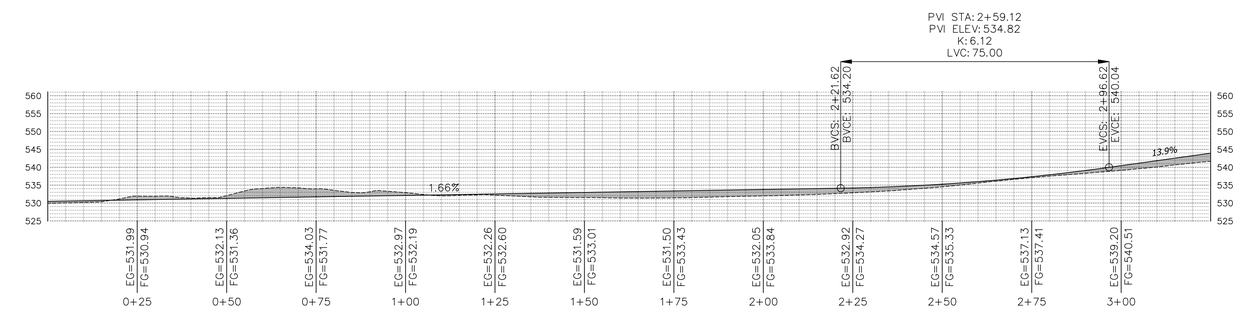
SCALE: 1"=20'

0 20 40 60 80



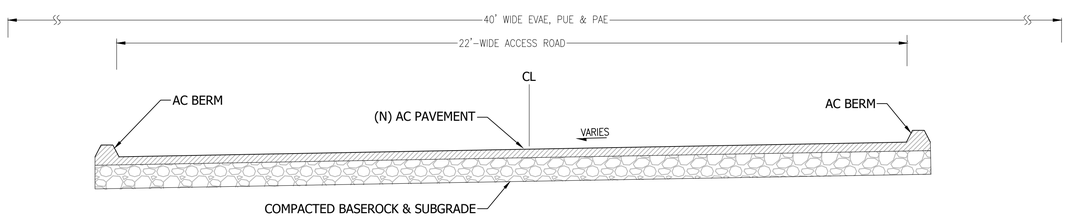
2 ACCESS ROAD PROFILE - STA. 14+00 TO 16+45

Scale: 1:20



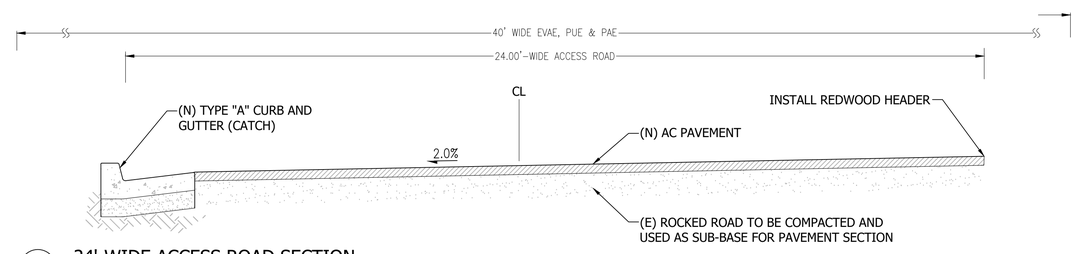
3 MAIN ROAD PROFILE - STA. 0+00 TO 3+25

Scale: 1:20



4 22'-WIDE ACCESS ROAD SECTION

Scale: 1":2'



5 24'-WIDE ACCESS ROAD SECTION

Scale: 1":2'

REVISIONS	BY

ENLARGED SITE PLAN

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

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

Date:	11/10/2023
Scale:	1" = 20'
Drawn:	DD/ESM
Job:	3007.05
Sheet:	C1.4
	Of 39 Sheets

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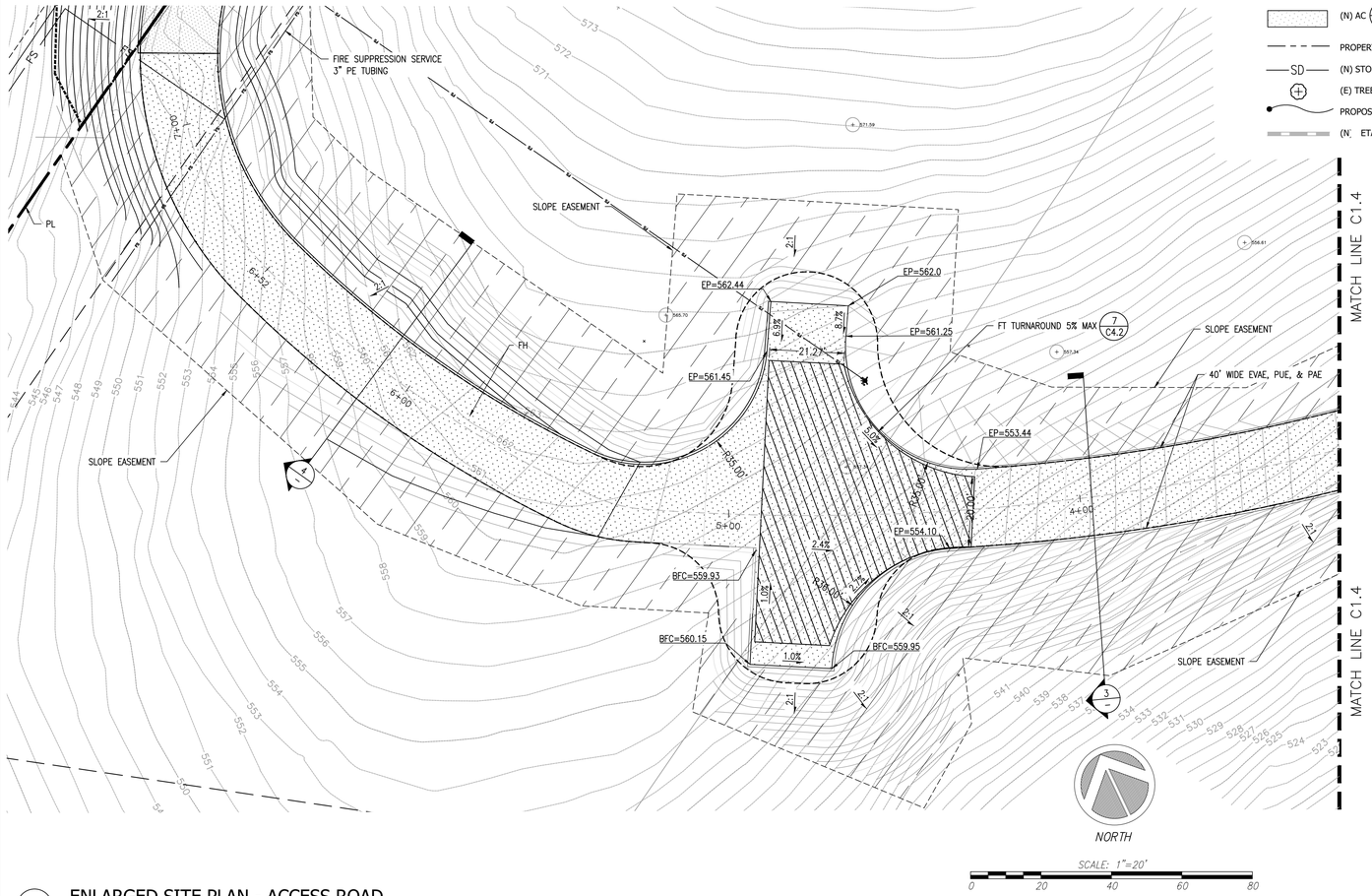
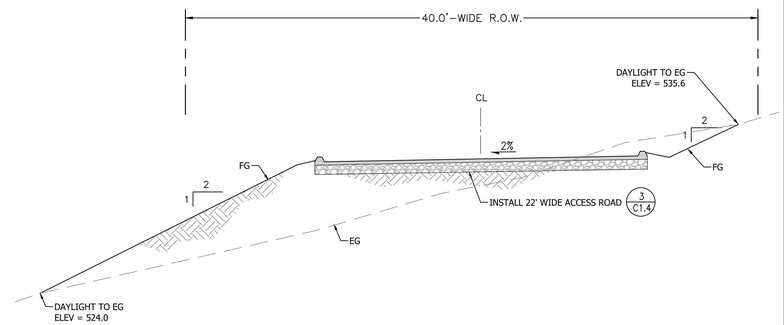


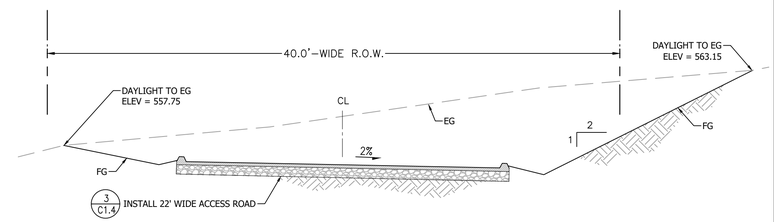
1 ENLARGED SITE PLAN - ACCESS ROAD

Scale: 1":20'



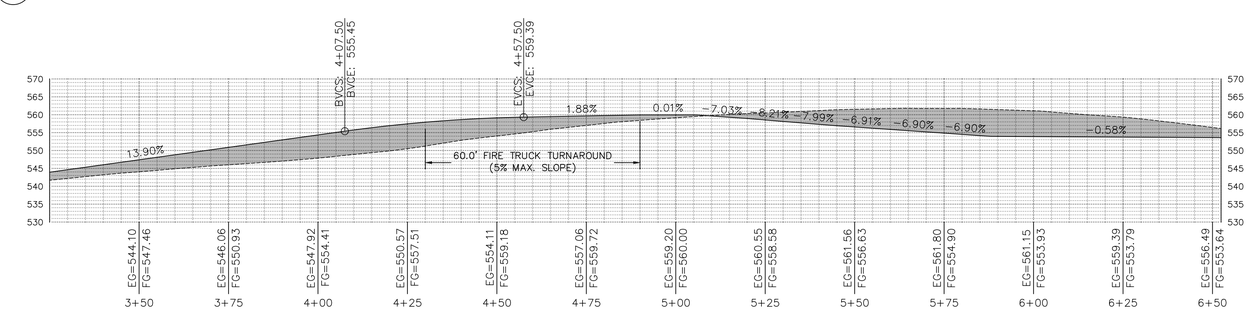
5 MAIN ROAD SECTION - STA. 1+68

Scale: 1:5



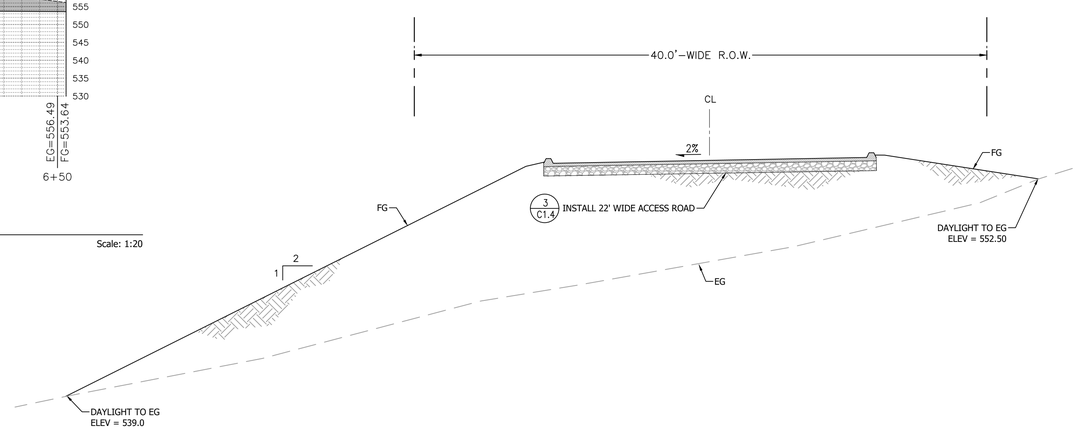
4 MAIN ROAD SECTION - STA. 6+10

Scale: 1:5



2 MAIN ROAD PROFILE - STA. 3+25 TO 6+52

Scale: 1:20



3 MAIN ROAD SECTION - STA. 3+97

Scale: 1:5

REVISIONS	BY

PROPOSED ACCESS PLAN AND PROFILE

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

Date:	11/10/2023
Scale:	1" = 20'
Drawn:	DD/ESM
Job:	3007.05
Sheet:	C1.5
	Of 39 Sheets

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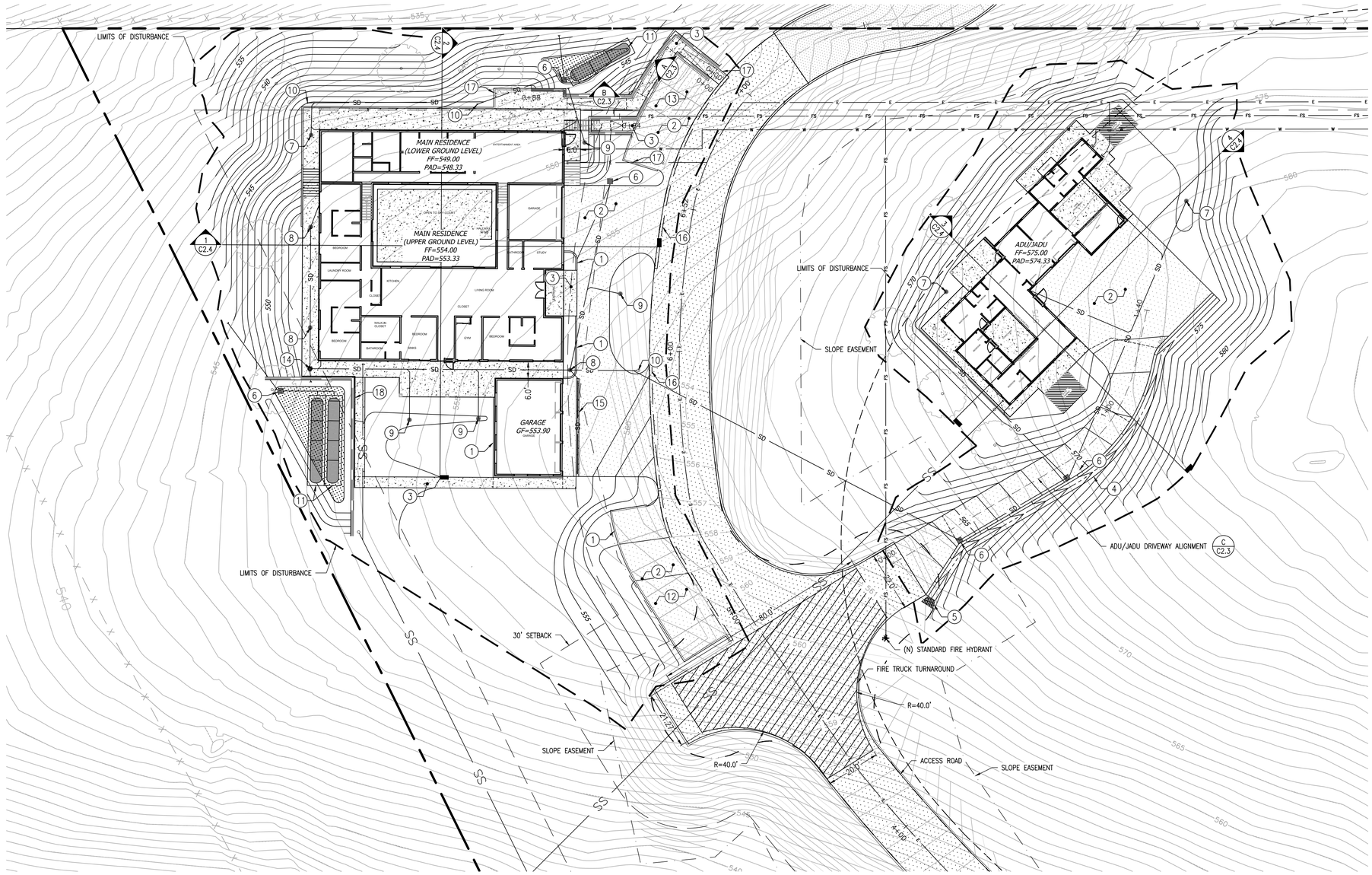

FIRE PROTECTION NOTES:

1. FIRE DEPARTMENT ACCESS SHALL BE MADE OF AN ALL-WEATHER MATERIAL CAPABLE OF HOLDING 75,000 LBS.
2. FIRE SPRINKLERS SHALL BE UNDER A DEFERRED SUBMITTAL.

PAVING LEGEND

- EXISTING AC ROAD SECTION
- PROPOSED CONCRETE
- PROPOSED AC ROAD SECTION

MISC ITEMS LEGEND

- FIRE TRUCK TURNAROUND
- STORM DRAIN AREA DRAIN
- STORM DRAIN DROP INLET
- POINT OF CONNECTION
- STORM DRAIN CLEAN OUT
- LIMIT OF DISTURBANCE LINE
- SETBACK
- SLOPE EASEMENT
- RIGHT-OF-WAY LIMITS
- PROPERTY LINE

(X) IMPROVEMENT NOTES

1. TYPE A1-6 CURB PER DETAIL 2, SHEET C4.2
2. AC PAVEMENT PER DETAIL 2, SHEET C4.1
3. CONCRETE SIDEWALK SECTION PER DETAIL 1, SHEET C4.2
4. CONCRETE V-DITCH PER DETAIL 11, SHEET C4.1
5. 6" ø GROUTED RIP-RAP (1 CY) PER DETAIL 12, SHEET C4.1
6. V64 CHRISTY BOX PER DETAIL 5, SHEET C6.1
7. 6" ø TERMINAL AREA DRAIN PER DETAIL 3, SHEET C4.1
8. 10" ø IN-LINE AREA DRAIN PER DETAIL 4, SHEET C4.1
9. 10" ø TERMINAL AREA DRAIN PER DETAIL 14, SHEET C4.1
10. STORM DRAIN CLEANOUT PER DETAIL 15, SHEET C4.1
11. STORMWATER STORAGE CHAMBER PER DETAIL 4, C4.2
12. PARKING AREA A
13. PARKING AREA B
14. STORM DRAIN MANHOLE PER DETAIL 1, SHEET C4.3
15. TRENCH DRAIN PER DETAIL 3, SHEET C4.2
16. SAWCUT EX AC PAVEMENT
17. DEEPEND CONCRETE CURB PER DETAIL 13, SHEET C4.1
18. 3' HANDRAIL

NEW IMPERVIOUS AREAS		
DESCRIPTION	MAIN RESIDENCE (SF)	ADU/JADU (SF)
BUILDING & GARAGE	9898	3348
ASPHALT DRIVEWAY	2769	4241
ASPHALT PARKING STALLS	1870	648
CONCRETE	2696	1362
TOTAL (N) IMPERVIOUS AREA	17233	9599
EXISTNG IMPERVIOUS AREA TBR	0	0
NET INCREASE OF IMPERVIOUS AREA	17233	9599
% OF ENTIRE LOT	0.50%	0.28%

NORTH

SCALE: 1"=20'

0 20 40 60 80

REVISIONS	BY

SITE PLAN

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
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Exp. 6/30/25
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APN: 029-34-004

Date:	11/10/2023
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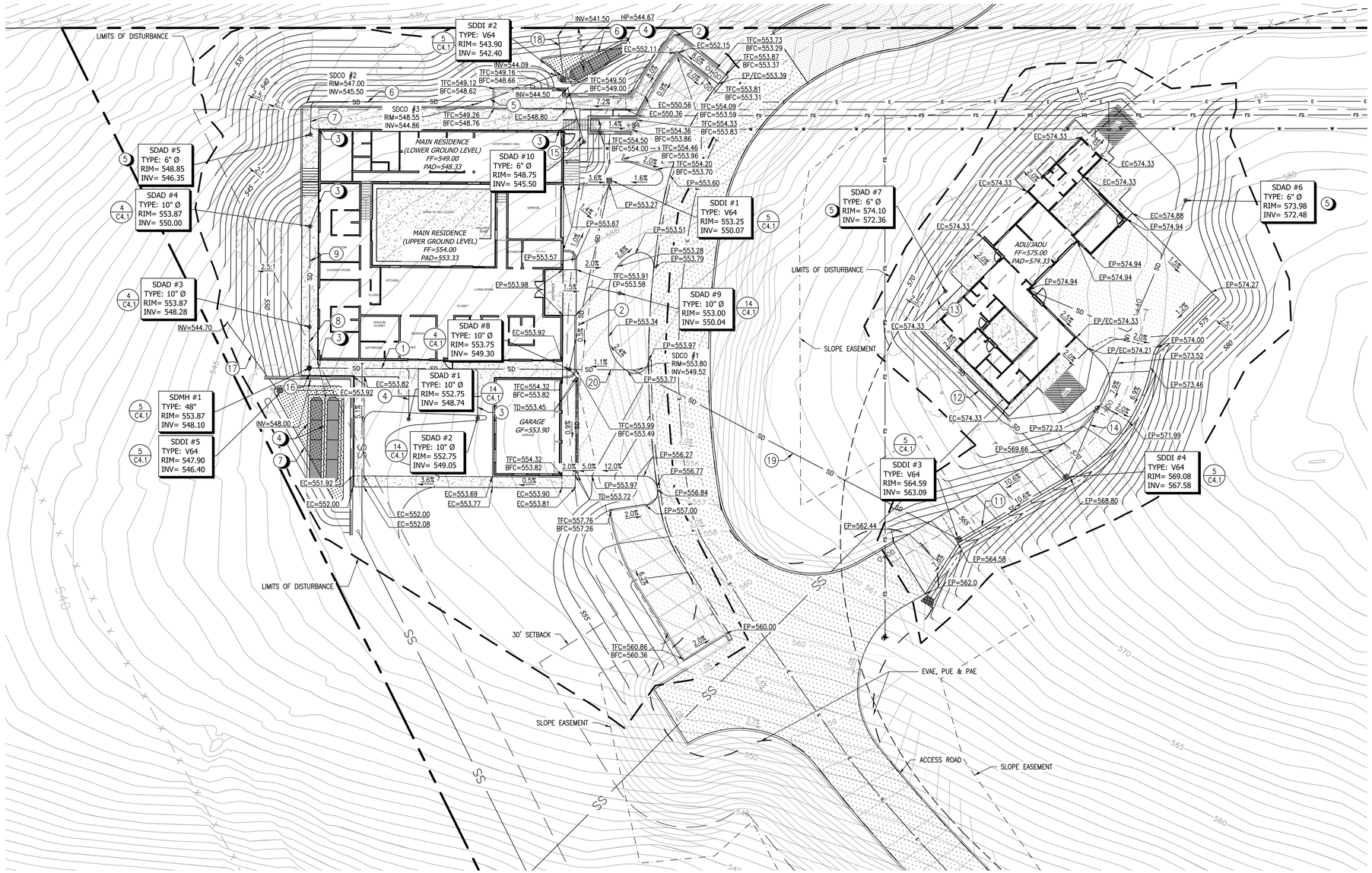
Drawn:	DD/ESM
Job:	3007.05
Sheet:	C2.1
	Of 39 Sheets

Drawing: Z:\Shared\CAD\3007.05 - WP - Lot B Building Permit\Drawings\CAD\Sheets\3007.05 - C2.1 - SITE PLAN.dwg Layout: C2.1 - SITE PLAN Last Saved: Tue May 28, 2024 - 1:12pm Last Plotted: Tue May 28, 2024 - 1:23pm By: EricSandQuyet



STORM DRAIN PIPE DATA

1. 94 LF OF 6"ø HDPE PIPE @ 1.3% SLOPE
2. 69 LF OF 6"ø HDPE PIPE @ 1.1% SLOPE
3. 17 LF OF 6"ø HDPE PIPE @ 1.0% SLOPE
4. 18 LF OF 6"ø HDPE PIPE @ 1.0% SLOPE
5. 31 LF OF 6"ø HDPE PIPE @ 2.5% SLOPE
6. 63 LF OF 6"ø HDPE PIPE @ 1.0% SLOPE
7. 11 LF OF 6"ø HDPE PIPE @ 7.7% SLOPE
8. 14 LF OF 6"ø HDPE PIPE @ 1.3% SLOPE
9. 36 LF OF 6"ø HDPE PIPE @ 4.8% SLOPE
10. NOT USED
11. 46 LF OF 6"ø HDPE PIPE @ 9.9% SLOPE
12. 80 LF OF 6"ø HDPE PIPE @ 5.0% SLOPE
13. 17 LF OF 6"ø HDPE PIPE @ 5.0% SLOPE
14. 109 LF OF 6"ø HDPE PIPE @ 4.5% SLOPE
15. 20 LF OF 6"ø HDPE PIPE @ 5.0% SLOPE
16. 4 LF OF 6"ø SDR-35 PIPE @ 2.5% SLOPE
17. 31 LF OF 6"ø SDR-35 PIPE @ 5.5% SLOPE
18. 16 LF OF 6"ø SDR-35 PIPE @ 5.7% SLOPE
19. 134 LF OF 6"ø SDR-35 PIPE @ 10.1% SLOPE
20. 22 LF OF 6"ø SDR-35 PIPE @ 1.0% SLOPE

STORM DRAIN NOTES:

1. P.O.C. TO BACK-OF-WALL DRAINAGE
2. INSTALL WEEP HOLE CONNECTED TO BACK OF WALL DRAINAGE
3. P.O.C. TO DOWNSPOUT
4. STORMWATER STORAGE CHAMBER
5. 6" X 6" SQUARE SLOTTED GRATE
6. BIORETENTION AREA (193 SF) (TOP OF SOIL EL = 543.85)
7. BIORETENTION AREA (637 SF) (TOP OF SOIL EL = 547.90)

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

ABBREVIATIONS

AB	AGGREGATE BASE	FL	FLOWLINE	SDDI	STORM DRAIN DROP INLET
AC	ASPHALT CONCRETE	G	GROUND	SDMH	STORM DRAIN MANHOLE
B/	BOTTOM OF ...	HP	HIGH POINT	T/	TOP OF ...
BLDG	BUILDING	INV	INVERT ELEVATION	TG	TOP OF GRATE
BS	BOTTOM OF STAIR	LP	LOW POINT	TS	TOP OF STAIR
BW	BACK OF WALK	NG	NATURAL GROUND	TW	TOP OF WALL
CONC	CONCRETE	P.O.T.	PATH OF TRAVEL	UG	UNDERGROUND
DWY	DRIVEWAY	PL	PROPERTY LINE	W/	WITH
EC	EDGE OF CONCRETE	PVR	PERVIOUS PAVER		
EP	EDGE OF PAVEMENT	SD	STORM DRAIN		
EL	ELEVATION	SDAD	STORM DRAIN AREA DRAIN		
FF	FINISH FLOOR				

LEGEND

- STORM DRAIN AREA DRAIN
- STORM DRAIN DROP INLET
- POINT OF CONNECTION
- STORM DRAIN CLEAN OUT

PROJECT EARTHWORK QUANTITIES

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

DESCRIPTION	CUT (cu.yds)	FILL (cu.yds)	NET (cu.yds)	MAX CUT (ft) HEIGHT	MAX FILL (ft) HEIGHT
ADU / JADU + 5' PERIMETER	68	146	78(F)	3.9	3.9
ADU / JADU DWY	1254	129	1125(C)	7.0	4.0
MAIN RESIDENCE + 5' PERIMETER	359	879	520(F)	5.3	8.6
MAIN RESIDENCE DWY	875	1263	388(F)	6.1	8.6
TOTAL	2556	2417	139(C)		

NET VOLUME = 139 CU.YDS. OF CUT

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

REVISIONS	BY

GRADING AND DRAINAGE

REGISTERED PROFESSIONAL ENGINEER
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Drawing: Z:\Shared\CAD\3007.05 - MP - Lot B Building Permit\Design\CAD\Sheets\3007.05 - C2.2 - GRADING & DRAINAGE.dwg Layout: C2.2 - GRADING & DRAINAGE Last Saved: Wed May 22, 2024 - 4:58pm Last Plotted: Tue May 28, 2024 - 1:23pm By: EdSandRyan

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

Date:	11/10/2023
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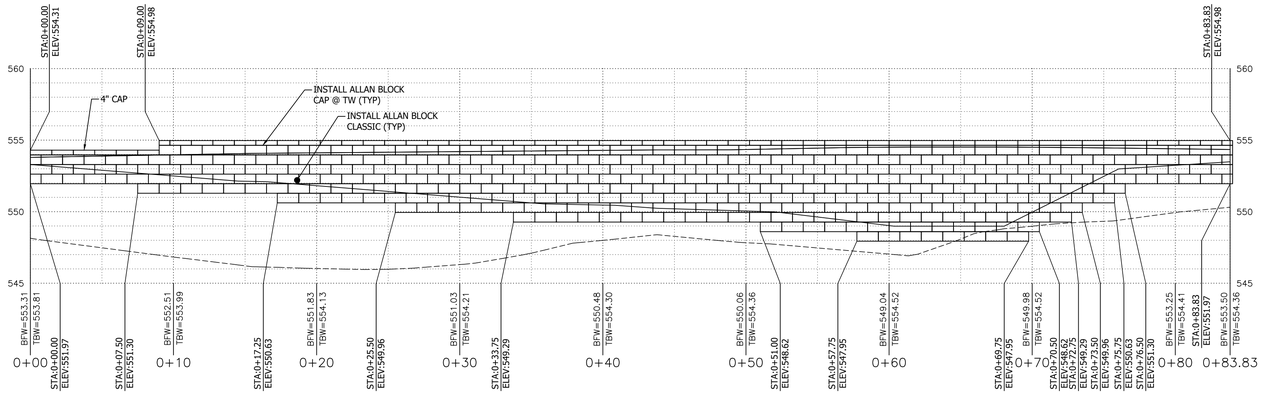
Drawn:	DD/ESM
Job:	3007.05
Sheet:	C2.2

Of 39 Sheets



A UPPER RETAINING WALL PROFILE

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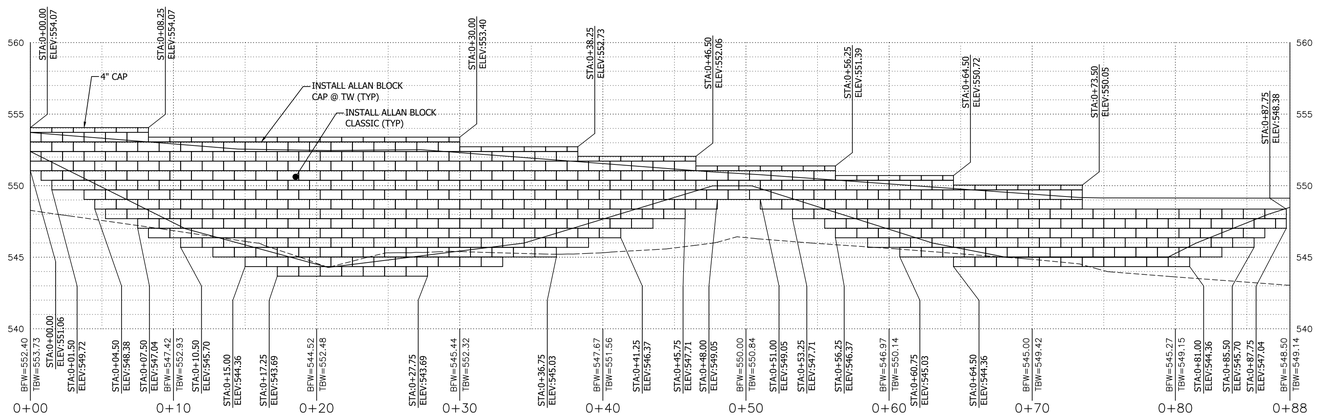

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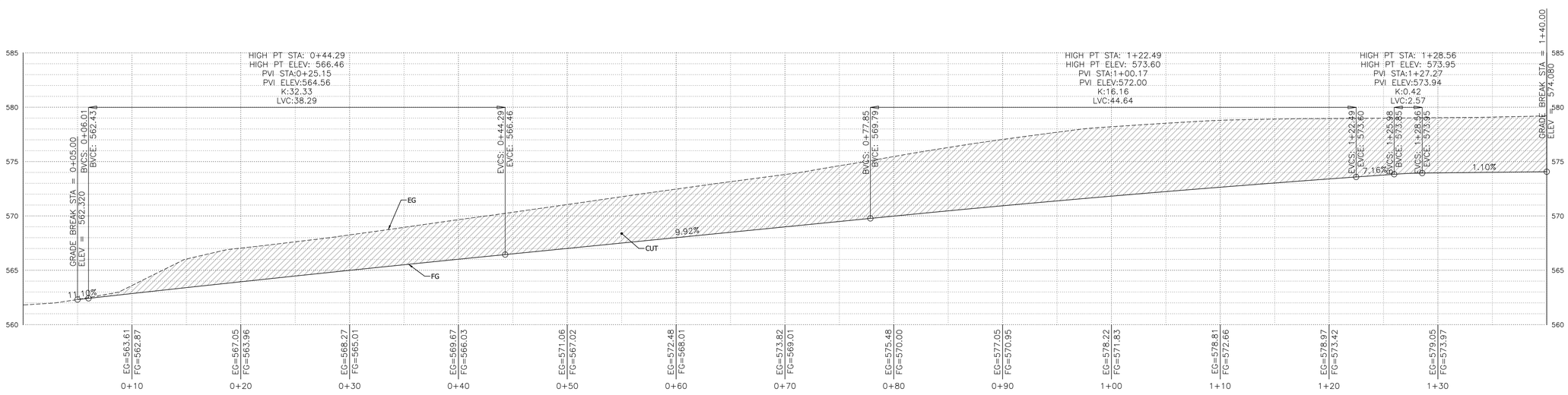

C ADU/JADU DRIVEWAY PROFILE

Scale: 1:5

REVISIONS	BY

WALL AND DRIVEWAY PROFILES

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

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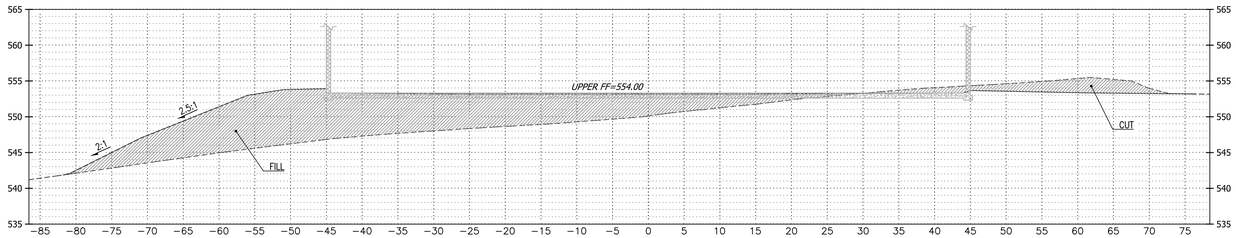
	Of 39 Sheets



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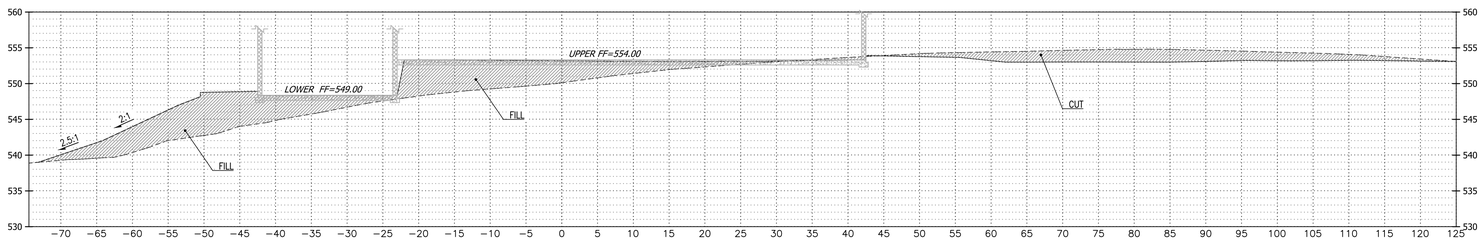

2 MAIN RESIDENCE SECTION 2

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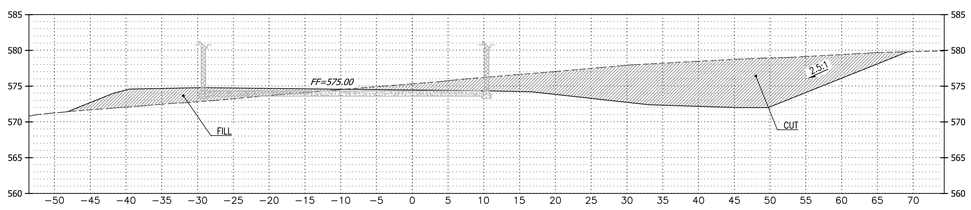

3 ADU/JADU SECTION 1

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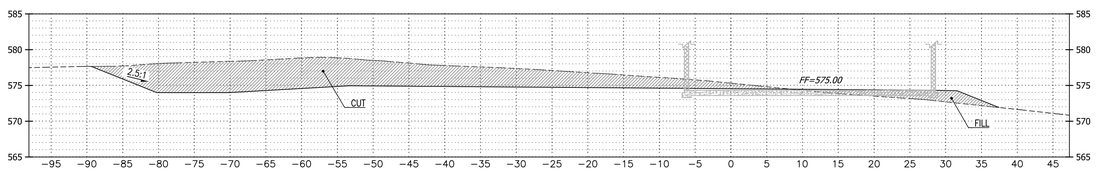

4 ADU/JADU SECTION 2

Scale: 1:10

REVISIONS	BY

SITE SECTIONS

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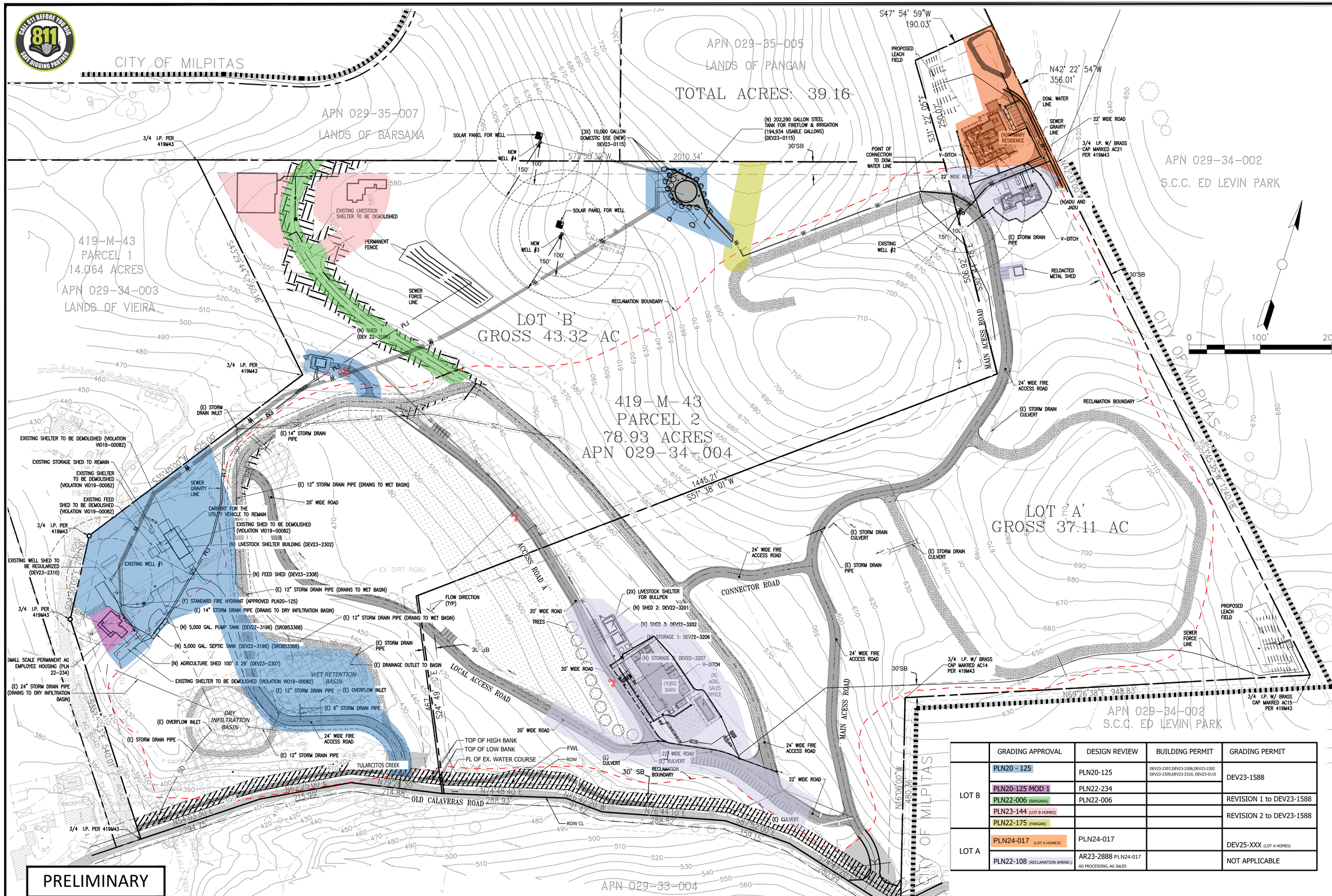

	GRADING APPROVAL	DESIGN REVIEW	BUILDING PERMIT	GRADING PERMIT
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	PLN20-125 MOD 1	PLN22-234		
	PLN22-006 (BARSANA)	PLN22-006		REVISION 1 to DEV23-1588
	PLN23-144 (LOT B HOMES)			REVISION 2 to DEV23-1588
	PLN22-175 (PANGAN)			
LOT A	PLN24-017 (LOT A HOMES)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

PRELIMINARY

BY	DATE	REVISIONS

NAVIS
design | build | manage
info@navisdbm.com

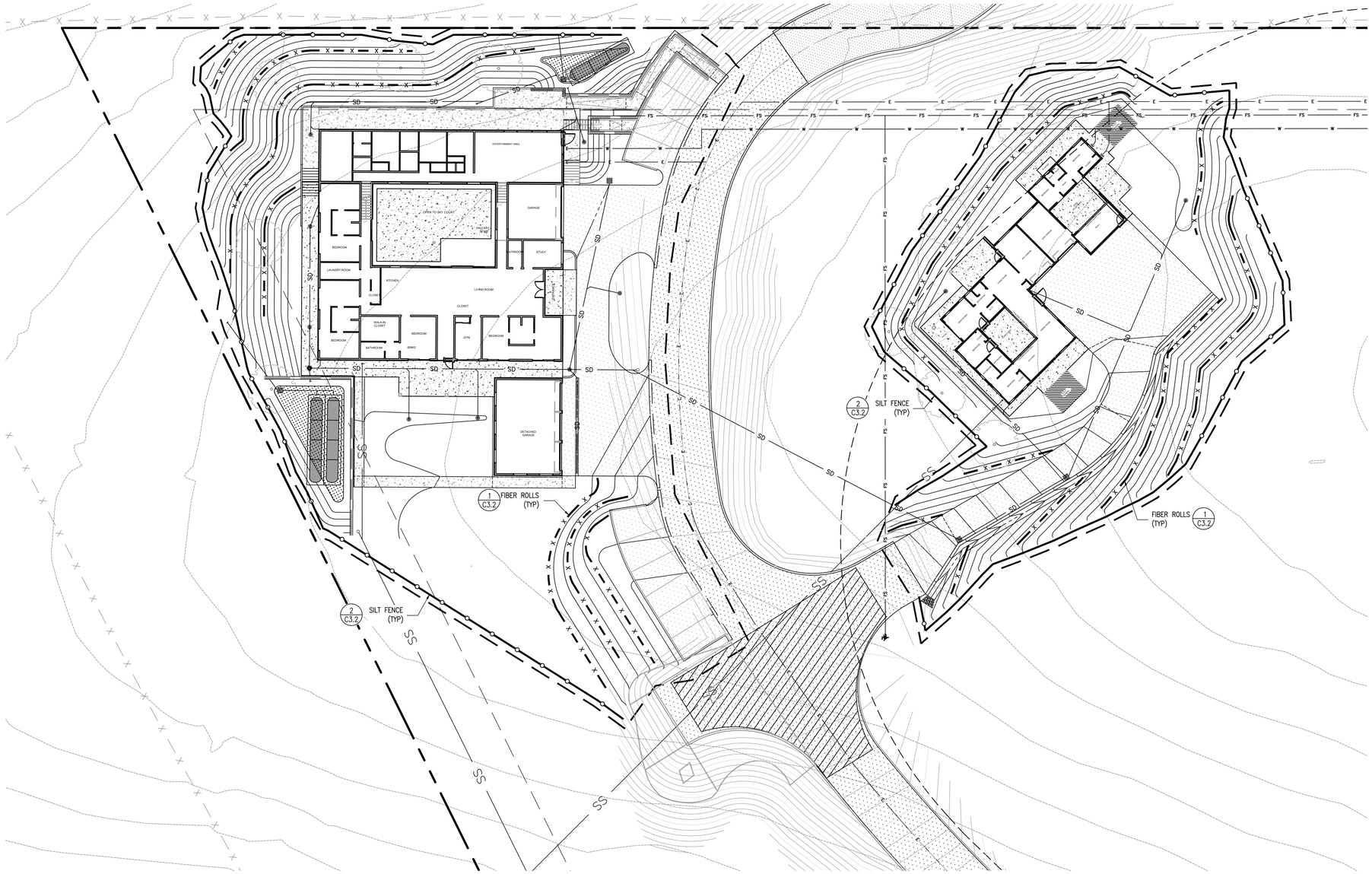
5/10/2024	DATE
KS, SB	DRAWN BY
SB	CHECKED BY

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

GOKULAM LOT A
GRADING PERMITS PROCESS OVERVIEW
COUNTY OF SANTA CLARA CALIFORNIA

C2.5

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



NORTH

SCALE: 1"=20'

0 20 40 60 80

LEGEND

SILT FENCE

INLET PROTECTION

FIBER ROLL

SWPPP MANAGER TO MARK KNOWN LOCATIONS

MATERIALS & EQUIPMENT STORAGE AREA

SANITARY FACILITY

EROSION CONTROL BMP'S

ALL CONSTRUCTION SITES

DELINEATE CLEARING LIMITS, SENSITIVE OR CRITICAL AREAS, TREES, DRAINAGE COURSES, AND BUFFER ZONES TO PREVENT EXCESSIVE OR UNNECESSARY DISTURBANCE AND EXPOSURE OF SOIL.

1. IDENTIFY ALL STORM DRAINS, DRAINAGE SWALES AND CREEKS LOCATED NEAR THE CONSTRUCTION SITE AND MAKE SURE ALL SUBCONTRACTORS ARE AWARE OF THEIR LOCATIONS TO PREVENT POLLUTANTS FROM ENTERING THEM.
2. PRESERVE EXISTING VEGETATION, WHERE REQUIRED AND WHEN FEASIBLE, TO THE MAXIMUM EXTENT PRACTICABLE.
3. PHASE GRADING OPERATIONS, TO THE EXTENT POSSIBLE, TO LIMIT AREAS OF DISTURBANCE AND TIME OF EXPOSURE
4. AVOID AND/OR MINIMIZE IMPACTS OF EXCAVATION AND GRADING DURING WET WEATHER AND IMMEDIATELY PRECEDING EXPECTED WET WEATHER.
5. MINIMIZE CUTS AND FILLS.
6. IMPLEMENT MEASURES TO MINIMIZE EROSION, MANAGE STORM WATER RUNOFF, AND PREVENT POLLUTANTS FROM CONSTRUCTION ACTIVITIES FROM ENTERING STORM DRAINS.
7. ALIGN TEMPORARY AND PERMANENT ROADS AND DRIVEWAYS ALONG SLOPE CONTOURS.
8. WASH VEHICLES AT AN APPROPRIATE OFF-SITE FACILITY. IF EQUIPMENT MUST BE WASHED ON-SITE, USE WASH DOWN AREAS DEVELOPED FOR SPECIFIC SITE REQUIREMENTS AND APPROVED BY THE CITY REPRESENTATIVE. DO NOT USE SOAPS, SOLVENTS, DEGREASERS, OR STEAM CLEANING EQUIPMENT, AND PREVENT WASH WATER FROM ENTERING STORM DRAINS.

MINIMIZE SOIL MOVEMENT

1. STOCKPILED SOIL AND MATERIALS SHOULD BE COVERED AND STABILIZED WITH TARPS, GEOTEXTILE FABRIC, HYDROSEEDING AND/OR EROSION CONTROL BLANKETS.
2. CREATE A BERM AND/OR INSTALL SILT FENCING AROUND STOCKPILED MATERIALS TO PREVENT STORM WATER RUNOFF FROM TRANSPORTING SEDIMENT OFFSITE.
3. USE STANDARD EROSION CONTROL SEEDING, PLANTING, MULCHING, GEOTEXTILE FABRIC AND/OR EROSION CONTROL BLANKETS TO STABILIZE DISTURBED SOIL AND REDUCE THE POTENTIAL FOR EROSION.
4. USE OTHER SOIL STABILIZERS AS APPROVED BY THE CITY OF CAPITOLA.

STRUCTURES TO CONTROL AND CONVEY RUNOFF

1. CONVEY RUNOFF BY USE OF EARTH DIKES, DRAINAGE SWALES AND/OR DITCHES WHEN FEASIBLE.
2. USE SLOPE DRAINS TO COLLECT AND CONVEY WATER FOR DISCHARGE BELOW SLOPES WHEN FEASIBLE.
3. USE VELOCITY DISSIPATION DEVICES, FLARED CULVERT END SECTIONS AND/OR CHECK DAMS TO REDUCE RUNOFF VELOCITY AND MITIGATE EROSION WHEN FEASIBLE.

CAPTURE SEDIMENT

1. USE TERRACING, RIPRAP, SAND BAGS, ROCKS, APPROVED TEMPORARY VEGETATION AND/OR OTHER APPROVED BMP'S ON SLOPES TO REDUCE RUNOFF VELOCITY AND TRAP SEDIMENTS. DO NOT USE ASPHALT RUBBLE OR OTHER DEMOLITION DEBRIS FOR THIS PURPOSE.
2. PROTECT STORM DRAIN INLETS FROM SEDIMENT-LADEN RUNOFF. STORM DRAIN INLET PROTECTION DEVICES INCLUDE GRAVEL BAGS, FILTER FABRIC FENCES AND BLOCK AND GRAVEL FILTERS.

OTHER RUNOFF CONTROLS

1. TEMPORARY SEDIMENT BASIN
2. SEDIMENT TRAP
3. BRUSH OR ROCK FILTER
4. SILT FENCE
5. SAND OR GRAVEL BAG BARRIER

TRACKING CONTROL

1. IMPLEMENT MEASURES AS NECESSARY TO MINIMIZE TRACKING OF SOIL OFF SITE
2. USE DRY SWEEPING METHODS WHEN CLEANING SEDIMENTS FROM STREETS, DRIVEWAYS AND PAVED AREAS BY HAND. WHEN USING MECHANICAL STREET SWEEPERS, USE FINE WATER SPRAY TO REDUCE DUST AND IMPROVE SEDIMENT REMOVAL WHILE MINIMIZING RUNOFF.

PAINT WORK

1. DO NOT CLEAN PAINT BRUSHES OR RINSE PAINT CONTAINERS INTO A STREET, GUTTER, STORM DRAIN, OR CREEK.
2. FOR WATER-BASED PAINTS, PAINT OUT BRUSHES TO THE EXTENT POSSIBLE AND RINSE TO A DRAIN LEADING TO THE SANITARY SEWER (I.E., INDOOR PLUMBING).
3. FOR OIL-BASED PAINTS, PAINT OUT BRUSHES TO THE EXTENT POSSIBLE, AND FILTER AND REUSE THINNERS AND SOLVENTS. DISPOSE OF UNUSABLE THINNERS, OIL-BASED PAINT, SLUDGES AND RESIDUE AS HAZARDOUS WASTE.
4. NON-HAZARDOUS PAINT CHIPS AND DUST FROM DRY STRIPPING AND SAND BLASTING MAY BE SWEPT UP OR COLLECTED IN PLASTIC DROP CLOTHS AND DISPOSED OF AS TRASH. CHEMICAL PAINT STRIPPING RESIDUE AND CHIPS AND DUST FROM MARINE PAINTS OR PAINTS CONTAINING LEAD OR TRIBUTYL TIN MUST BE DISPOSED OF AS A HAZARDOUS WASTE.
5. WHEN STRIPPING OR CLEANING BUILDING EXTERIORS WITH HIGH-PRESSURE WATER, COVER OR BERM STORM DRAIN INLETS. COLLECT (MOP OR VACUUM) BUILDING CLEANING WATER FOR DISPOSAL IN A PRE-AUTHORIZED MANNER.
6. RECYCLE, RETURN TO SUPPLIER OR DONATE UNWANTED WATER-BASED (LATEX) PAINT.
7. DRIED LATEX PAINT MAY BE DISPOSED OF IN THE TRASH.

CEMENT AND CONCRETE WORK

1. AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT MORTAR ON-SITE.
2. STORE DRY AND WET CONCRETE AND CEMENT UNDER COVER, PROTECTED FORM RAINFALL AND RUNOFF.
3. WASH OUT CONCRETE TRANSIT MIXERS ONLY IN DESIGNATED WASH-OUT AREAS. WHENEVER POSSIBLE, RECYCLE WASHOUT BY PUMPING BACK INTO MIXERS FOR REUSE. DO NOT DISPOSE OF WASHOUT INTO THE STREET, STORM DRAINS, DRAINAGE DITCHES, OR CREEKS. DESIGNATED WASH-OUT AREAS MUST BE MAINTAINED TO PREVENT OVER FLOW.
4. WHENEVER POSSIBLE, RETURN CONTENTS OF MIXER BARREL TO THE OFF-SITE YARD FOR RECYCLING. DISPOSE OF SMALL AMOUNTS OF EXCESS CONCRETE, GROUT, AND MORTAR IN THE TRASH.

ROADWORK/PAVEMENT

5. APPLY CONCRETE, ASPHALT, AND SEAL COAT DURING DRY WEATHER TO PREVENT CONTAMINANTS FROM CONTACTING STORMWATER RUNOFF.
6. COVER STORM DRAIN INLETS AND MANHOLES WHEN PAVING OR APPLYING SEAL COAT, SLURRY SEAL, FOG SEAL, AND SIMILAR MATERIALS.
7. ALWAYS PARK PAVING MACHINES OVER DRIP PANS OR ABSORBENT MATERIALS, SINCE THEY TEND TO DRIP CONTINUOUSLY.
8. WHEN MAKING SAW-CUTS IN PAVEMENT, USE AS LITTLE WATER AS POSSIBLE. COVER POTENTIALLY AFFECTED STORM DRAIN INLETS COMPLETELY WITH FILTER FABRIC DURING THE SAWING OPERATION AND CONTAIN THE SLURRY BY WET-VACUUMING, OR BY PLACING STRAW BALES, SANDBAGS, OR GRAVEL DAMS AROUND THE CATCH BASINS. AFTER THE LIQUID DRAINS OR EVAPORATES, SHOVEL OR VACUUM THE SLURRY RESIDUE FROM THE PAVEMENT OR GUTTER AND REMOVE FROM SITE.
9. WASH DOWN EXPOSED AGGREGATE CONCRETE ONLY WHEN THE WASH WATER CAN: (1) FLOW ONTO A DIRT AREA; (2) DRAIN ONTO A BERMED SURFACE FROM WHICH IT CAN BE PUMPED AND DISPOSED OF PROPERLY; OR (3) BE VACUUMED FROM THE AREA ALONG THE CURB WHERE SEDIMENT HAS ACCUMULATED BY BLOCKING A STORM DRAIN INLET.
10. ALLOW AGGREGATE RINSE TO SETTLE, AND PUMP THE WATER TO THE SANITARY SEWER IF ALLOWED BY YOUR LOCAL WASTEWATER AUTHORITY.
11. DO NOT WASH SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO A STREET OR STORM DRAIN. COLLECT AND RETURN TO AGGREGATE BASE STOCKPILE, OR DISPOSE WITH TRASH.
12. RECYCLE BROKEN CONCRETE AND ASPHALT.

HAZARDOUS MATERIAL SPILL PREVENTION, SPILL REPORTING AND RESPONSE

1. ALL HAZARDOUS MATERIALS SHALL BE STORED SO THAT THEY ARE PROTECTED FROM INCLEMENT WEATHER AND VANDALISM.
2. MOTOR VEHICLES SHALL NOT BE FUELED ON THE PROJECT SITE.
3. SPILL CONTAINMENT MEASURES MUST BE MADE PRIOR TO FUELING WHEN FUELING EQUIPMENT OTHER THAN MOTOR VEHICLES.
4. VEHICLE MAINTENANCE, OTHER THAN EMERGENCY REPAIRS, SHALL NOT BE PERFORMED ON THE PROJECT SITE.
5. APPROPRIATE EMERGENCY SPILL CONTAINMENT SUPPLIES SHALL BE MAINTAINED ON SITE BY THE CONTRACTOR.
6. SPILLS GREATER THAN ONE QUART SHALL BE IMMEDIATELY REPORTED TO THE CITY'S REPRESENTATIVE AND COUNTY INSPECTOR.
7. SPILLS SHALL BE DIKED OR CONTAINED BY TRAINED PERSONNEL TO PREVENT THE SPILLED HAZARDOUS MATERIAL FROM ENTERING THE STORM WATER SYSTEM OR LEAVING THE PROJECT SITE.
8. SPILLS OF LESS THAN FIVE (5) GALLONS SHALL BE ABSORBED USING AN APPROPRIATE MATERIAL. ALL CONTAMINATED MATERIALS SHALL BE CONTAINERIZED, REMOVED FROM THE JOBSITE AND DISPOSED IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
9. SPILLS IN EXCESS OF FIVE (5) GALLONS SHALL BE ABSORBED USING AN APPROPRIATE MATERIAL AND PLACED IN CONTAINERS UNDER THE DIRECTION OF THE COUNTY OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY.
10. ANY CONTAMINATED SOIL SHALL BE REMOVED BY THE CONTRACTOR AND REPLACED WITH ACCEPTABLE FRESH SOIL.
11. RESPONSE SHALL BE CARRIED OUT BY APPROPRIATELY TRAINED PERSONNEL UTILIZING SAFE PRACTICES.

GOOD HOUSEKEEPING PRACTICES

1. DO NOT WASH DOWN PAVEMENT OR SURFACES WHERE SILT HAS BEEN DEPOSITED OR MATERIALS HAVE SPILLED. USE DRY CLEANUP METHODS.
2. AVOID CONTAMINATING CLEAN RUNOFF FROM AREAS ADJACENT TO YOUR SITE BY USING BERMS AND/OR TEMPORARY OR PERMANENT DRAINAGE DITCHES TO DIVERT WATER FLOW AROUND THE SITE.
3. COVER EXPOSED PILES OF SOIL, CONSTRUCTION MATERIALS AND WASTES WITH PLASTIC SHEETING OR TEMPORARY ROOFS. BEFORE IT RAINS, SWEEP AND REMOVE MATERIALS FROM SURFACES THAT DRAIN TO STORM DRAINS, CREEKS, OR CHANNELS.
4. PLACE TRASH CANS AROUND THE SITE TO REDUCE POTENTIAL LITTER. DISPOSE OF NON-HAZARDOUS CONSTRUCTION WASTES IN COVERED DUMPSTERS OR RECYCLING RECEPTACLES. RECYCLE LEFTOVER MATERIALS WHENEVER POSSIBLE.
5. DISPOSE OF ALL WASTES PROPERLY. MATERIALS THAT CAN NOT BE REUSED OR RECYCLED MUST BE TAKEN TO AN APPROPRIATE LANDFILL OR DISPOSED OF AS HAZARDOUS WASTE, AS APPROPRIATE.
6. COVER OPEN DUMPSTERS WITH PLASTIC SHEETING OR A TARP DURING RAINY WEATHER. SECURE THE SHEETING OR TARP AROUND THE OUTSIDE OF THE DUMPSTER. IF THE DUMPSTER HAS A COVER, CLOSE IT.
7. TRAIN YOUR EMPLOYEES AND INFORM CONTRACTORS AND SUBCONTRACTORS ABOUT STORM WATER MANAGEMENT REQUIREMENTS AND THEIR RESPONSIBILITIES FOR COMPLIANCE.

REVISIONS	BY

EROSION CONTROL PLAN

REGISTERED PROFESSIONAL ENGINEER
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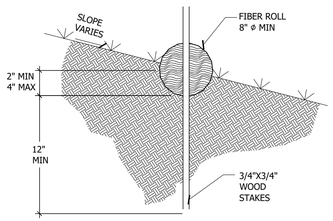
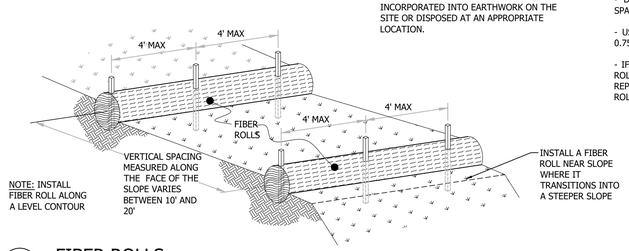


IF THE FIBER ROLL IS USED AS A SEDIMENT CAPTURE DEVICE, OR AS AN EROSION CONTROL DEVICE TO MAINTAIN SHEET FLOWS, SEDIMENT THAT ACCUMULATES IN THE BMP MUST BE PERIODICALLY REMOVED IN ORDER TO MAINTAIN BMP EFFECTIVENESS. SEDIMENT SHOULD BE REMOVED WHEN SEDIMENT ACCUMULATION REACHES ONE-HALF THE DESIGNATED SEDIMENT STORAGE DEPTH, USUALLY ONE-HALF THE DISTANCE BETWEEN THE TOP OF THE FIBER ROLL AND THE ADJACENT GROUND SURFACE. SEDIMENT REMOVED DURING THE MAINTENANCE MAY BE INCORPORATED INTO EARTHWORK ON THE SITE OR DISPOSED AT AN APPROPRIATE LOCATION.



NOTE: INSTALL FIBER ROLL ALONG A LEVEL CONTOUR

CONSTRUCTION SPECIFICATIONS

LOCATE FIBER ROLLS ON LEVEL CONTOURS SPACED AS FOLLOWS:

- SLOPE INCLINATION OF 4 :1 (H:V) OR FLATTER: FIBER ROLLS SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 20 FT.

- SLOPE INCLINATION BETWEEN 4:1 AND 2:1 (H:V) FIBER ROLLS SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 15 FT. (A CLOSER SPACING IS MORE EFFECTIVE).

- SLOPE INCLINATION OF 2:1 (H:V) OR GREATER: FIBER ROLLS SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 10 FT. (A CLOSER SPACING IS MORE EFFECTIVE).

- TURN THE ENDS OF THE FIBER ROLL UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE ROLL. STAKE FIBER ROLLS INTO A 2 TO 4 IN. DEEP TRENCH WITH A WIDTH EQUAL TO THE DIAMETER OF THE FIBER ROLL.

- DRIVE STAKES AT THE END OF EACH FIBER ROLL AND SPACED 4 FT MAXIMUM ON CENTER.

- USE WOOD STAKES WITH A NOMINAL CLASSIFICATION OF 0.75 BY 0.75 IN. AND A MINIMUM LENGTH OF 24 IN.

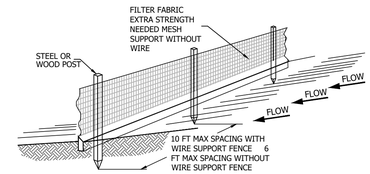
- IF MORE THAN ONE FIBER ROLL IS PLACED IN A ROW, THE ROLLS SHOULD BE OVERLAPPED, NOT ABUTTED. REPAIR OR REPLACE SPLIT, TORN, UNRAVELING OR SLUMPING FIBER ROLLS.

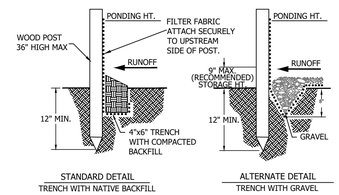
1 FIBER ROLLS

Scale: NTS

NOTE:

1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED AT AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE REPLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.





CONSTRUCTION SPECIFICATIONS

THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES. STORAGE HEIGHT SHALL NEVER EXCEED 18". THE FENCE LINE SHALL FOLLOW THE CONTOUR AS CLOSELY AS POSSIBLE.

IF POSSIBLE, THE FILTER FABRIC SHALL BE CUT FROM A CONTINUOUS ROLL TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP AND BOTH ENDS SECURELY FASTENED TO THE POST.

POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET. TURN THE ENDS OF THE FENCE UPHILL.

A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.

WHEN STANDARD-STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

THE STANDARD-STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 6 INCHES OF THE FABRIC SHALL EXTEND INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS.

THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE TOE OF THE FILTER FABRIC.

SILT FENCES PLACED AT THE TOE OF A SLOPE SHALL BE SET AT LEAST 6 FEET FROM THE TOE IN ORDER TO INCREASE PONDING VOLUME.

SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED, AND ANY SEDIMENT STORED BEHIND THE SILT FENCE HAS BEEN REMOVED.

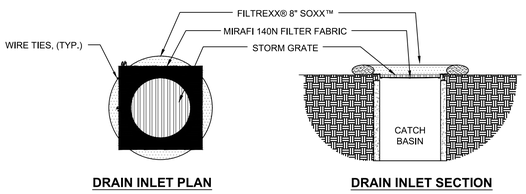
INSPECTION AND MAINTENANCE

SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED WEEKLY AND AFTER EACH SIGNIFICANT STORM (1" IN 24 HR.). ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/3 HEIGHT OF THE FENCE OR 9 INCHES MAXIMUM.

THE REMOVED SEDIMENT SHALL VEGETATE OR OTHERWISE STABILIZED.

2 SILT FENCE

Scale: NTS



NOTES:
1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
2. FILTER MEDIA™ FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.
4. CONTRACTOR SHALL EXTEND MIRAFI 140N FABRIC 6" BEYOND CATCH BASIN AFTER PLACEMENT OF GRATE
5. CONTRACTOR SHALL REMOVE ALL FILTER FABRIC FROM ALL STORM DRAIN INLETS UPON COMPLETION OF PROJECT

3 FILTREX® INLET PROTECTION

Scale: NTS

REVISIONS	BY

EROSION CONTROL DETAILS

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
Exp. 6/30/25
CIVIL
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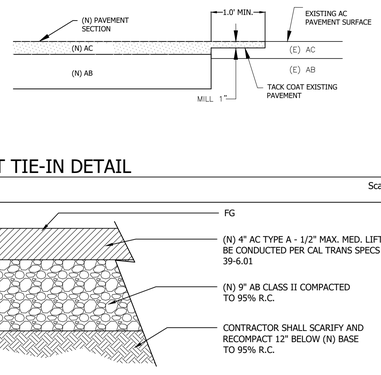
GOKULAM, LLC.
LOT B – DESIGN REVIEW
2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

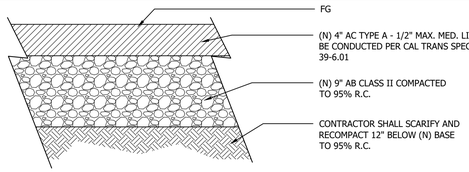
Date:	11/10/2023
Scale:	NTS
Drawn:	DD/ESM
Job:	3007.05
Sheet:	C3.2
	Of 39 Sheets

Drawing: Z:\Shared\CAD\3007.05 – MP – Lot B Building Permit\Design\CAD\Sheets\3007.05 – C3.2 – EROSION CONTROL DETAILS.dwg Layout: C3.2 – EROSION CONTROL PLAN Last Saved: Thu Jun 29, 2023 – 8:18am Last Plotted: Tue May 28, 2024 – 1:26pm By: EdSadiGuel



1 ASPHALT TIE-IN DETAIL

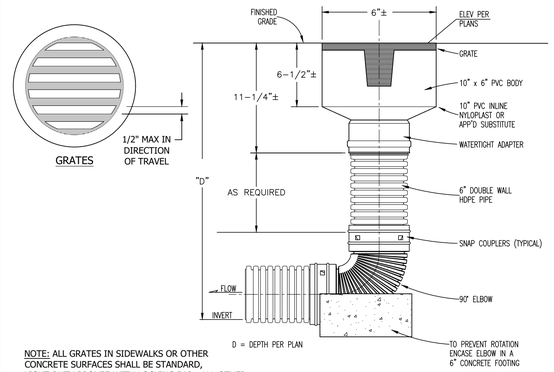
Scale: NTS



1. AC PAVEMENT FOR ACCESS ROAD SHALL BE ALL-WEATHER MATERIAL CAPABLE OF SUPPORTING 75,000 LBS.

2 STANDARD AC PAVEMENT SECTION

Scale: NTS

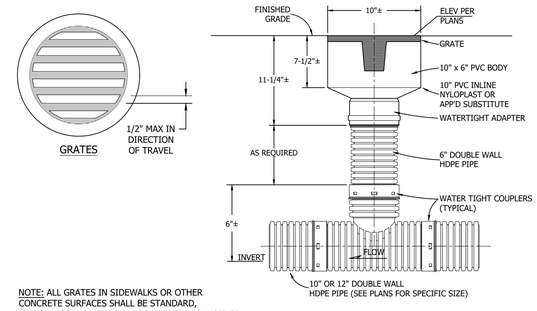


NOTE: ALL GRATES IN SIDEWALKS OR OTHER CONCRETE SURFACES SHALL BE STANDARD, LIGHT-DUTY BRONZE WITH LOCKING BAR. ALL OTHER GRATES SHALL BE STANDARD LIGHT-DUTY CAST IRON WITH LOCKING BAR.

SEE DETAIL 9 ON THIS SHEET FOR CONCRETE COLLAR REQUIREMENTS

3 AREA DRAIN - 6" TERMINAL DRAIN

Scale: NTS

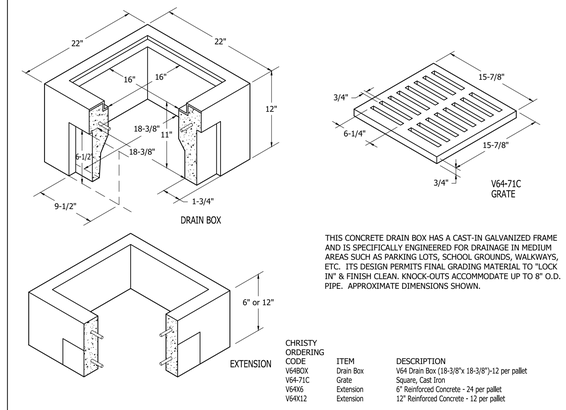


NOTE: ALL GRATES IN SIDEWALKS OR OTHER CONCRETE SURFACES SHALL BE STANDARD, LIGHT-DUTY BRONZE WITH LOCKING BAR. ALL OTHER GRATES SHALL BE STANDARD LIGHT-DUTY CAST IRON WITH LOCKING BAR.

SEE DETAIL 9 ON THIS SHEET FOR CONCRETE COLLAR REQUIREMENTS

4 AREA DRAIN - 10" INLINE DRAIN

Scale: NTS

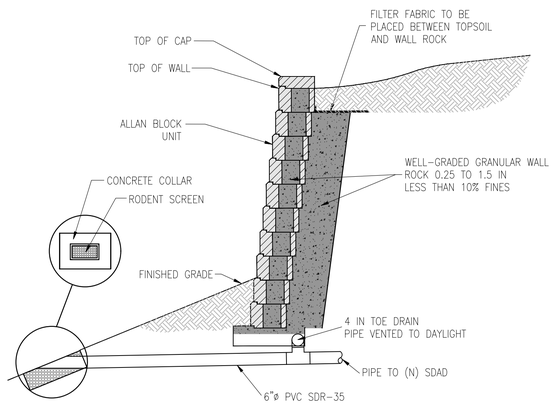


THIS CONCRETE DRAIN BOX HAS A CAST-IN GALVANIZED FRAME AND IS SPECIFICALLY ENGINEERED FOR DRAINAGE IN MEDIUM AREAS SUCH AS PARKING LOTS, SCHOOL GROUNDS, WALKWAYS, ETC. ITS DESIGN PERMITS FINAL GRADING MATERIAL TO "LOCK IN" & FINISH CLEAN. KNOCK-OUTS ACCOMMODATE UP TO 8" O.D. PIPE. APPROXIMATE DIMENSIONS SHOWN.

CHRISTY ORDERING CODE	ITEM	DESCRIPTION
V64BOX	Drain Box	V64 Drain Box (18-3/8"x 18-3/8")-12 per pallet
V64-71C	Grate	Square, Cast Iron
V64X6	Extension	6" Reinforced Concrete - 24 per pallet
V64X12	Extension	12" Reinforced Concrete - 12 per pallet

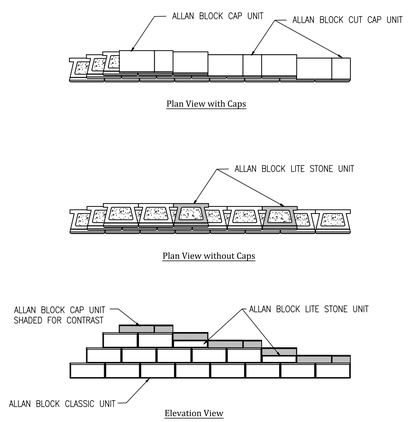
5 STORM DRAIN INLET (V64 CHRISTY BOX)

Scale: NTS



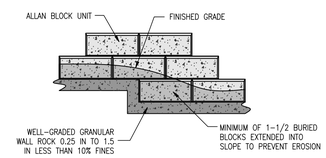
6 GRAVITY WALL DRAINAGE DETAIL

Scale: NTS



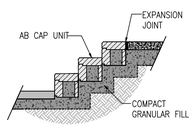
7 TOP-OF-WALL STEP DETAIL

Scale: NTS



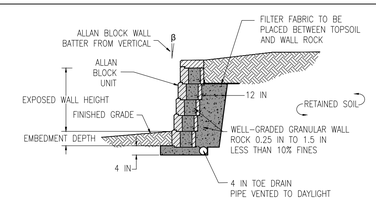
8 BOTTOM-OF-WALL STEP DETAIL

Scale: NTS



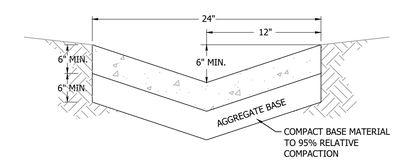
10 BLOCK WALL STAIR DETAIL

Scale: NTS



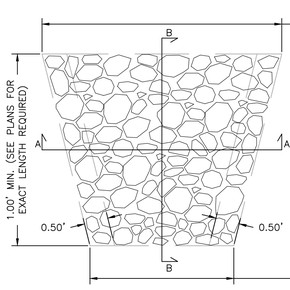
9 TYPICAL GRAVITY WALL DETAIL

Scale: NTS

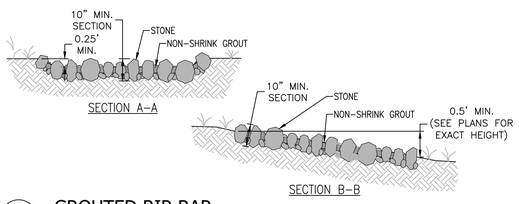


11 CONCRETE V-DITCH

Scale: NTS



NOTE:
1. STONE TO BE 4"–8" DIAMETER RIP–RAP.
2. STONES SHALL BE CLEANED AND SOAKED IN WATER PRIOR TO INSTALLATION.
3. STONES AND NON–SHRINK GROUT SHALL BE INSTALLED OVER COMPACTED SUBGRADE.
4. NON–SHRINK GROUT SHOULD NOT BE ACTING AS A CONCRETE SLAB.
5. NON–SHRINK GROUT SHALL BE PLACED TO ALLOW STONE TO CONFORM TO SUBGRADE.
6. TOP SURFACE OF STONES SHALL NOT BE UNIFORM AND SHALL BE PLACED WITH ENOUGH SURFACE DIFFERENTIAL IN HEIGHT TO SLOW AND DISPERSE RAINWATER DISCHARGING INTO PLANTING AREA SO AS NOT TO CAUSE EROSION OF SOIL AND/OR BARK MULCH.
7. LIGHTLY SPRAY SURFACE TO CLEAN AND REMOVE FOREIGN GROUT MATERIAL FROM STONE SURFACE.

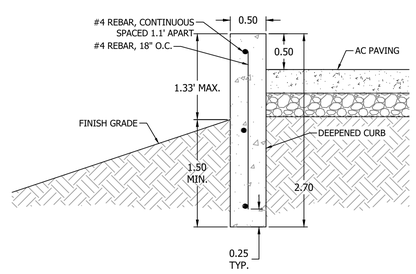


12 GROUTED RIP-RAP

Scale: NTS

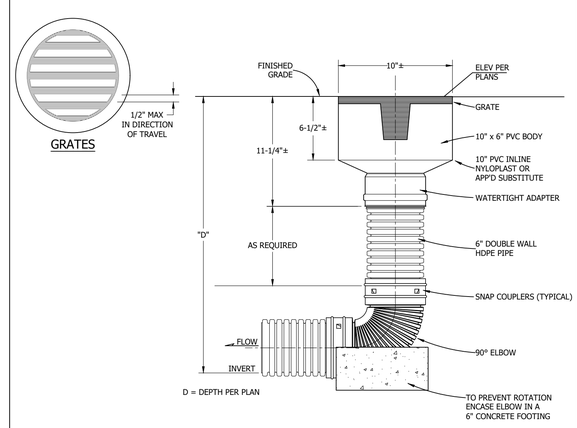
NOTES:

1. CONCRETE CURBS AND SIDEWALK ARE TO BE CONSTRUCTED OF CLASS B CONCRETE AT 3,000 PSI MINIMUM, 6 SACK MINIMUM, AND #4 REBAR (ASTM A615, GRADE 40).
2. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 20" INTERVALS, AND AT THE ENDS OF RETURNS. EXPANSION JOINTS SHALL BE AT MAXIMUM 60 FEET SPACING.



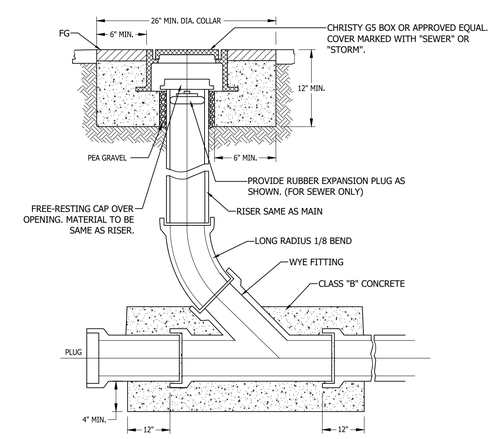
13 DEEPENED CONCRETE CURB DETAIL

Scale: NTS



14 AREA DRAIN - 10" TERMINAL DRAIN

Scale: NTS



15 STORM/SEWER CLEAN OUT DETAIL

Scale: NTS

REVISIONS	BY

CONSTRUCTION DETAILS

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
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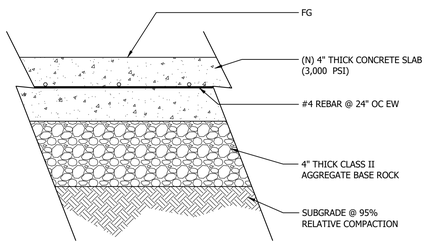
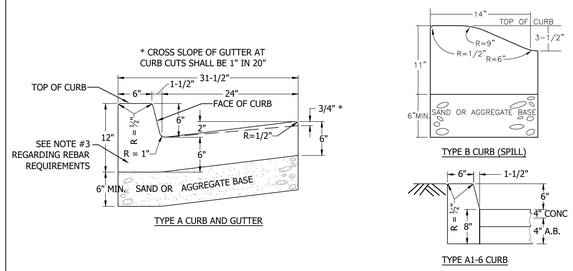


1 CONCRETE SIDEWALK SECTION

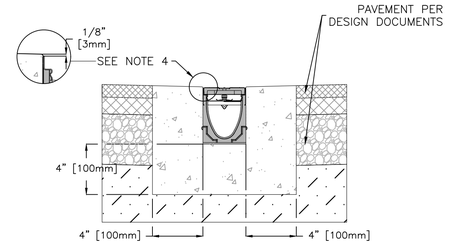
Scale: NTS



1. ALL CURB, GUTTER & SIDEWALK ARE TO BE CONSTRUCTED OF CLASS B CONCRETE, 6 SACK MINIMUM.
2. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 20º INTERVALS, AND AT THE ENDS OF RETURNS. EXPANSION JOINTS SHALL BE AT MAXIMUM 60 FEET SPACING.
3. IF SIDEWALK IS NOT INSTALLED MONOLITHICALLY WITH CURB & GUTTER, PLACE #4 DOWELS 18" LONG AT 4' O.C. IN BACK OF CURB 2" DOWN FROM TOP OF CURB, 6" IN CONCRETE.

2 CONCRETE CURB AND GUTTER TYPES

Scale: NTS



NOTES:
1. IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. *ENGINEERING ADVICE MAY BE REQUIRED.*
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. *ENGINEERING ADVICE MAY BE REQUIRED.*
4. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3mm] ABOVE THE TOP OF THE CHANNEL EDGE.
5. CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. ENGINEERING ADVICE MAY BE REQUIRED TO DETERMINE PROPER LOAD CLASS.
6. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

SPECIFICATION CLAUSE

K100 KLASSIKDRAIN 'QUICKLOK'
LOAD CLASS B

GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE K100 CHANNEL SYSTEM WITH GALVANIZED STEEL EDGE RAILS AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

MATERIALS
CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN GALVANIZED STEEL EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:

COMPRESSIVE STRENGTH:	14,000 PSI
FLEXURAL STRENGTH:	4,000 PSI
TENSILE STRENGTH:	1,500 PSI
WATER ABSORPTION:	.07%
FROST PROOF	YES
DILUTE ACID AND ALKALI RESISTANT	YES
B117 SALT SPRAY TEST COMPLIANT	YES

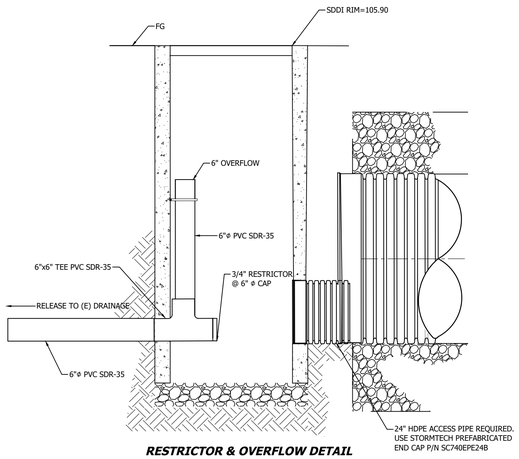
THE SYSTEM SHALL BE 4" (100mm) NOMINAL INTERNAL WIDTH WITH A 5.1" (130mm) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "V" SHAPE. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

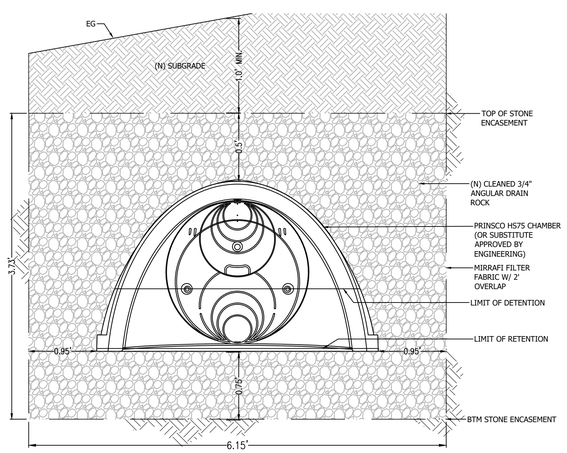
CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. GRATE TYPE SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD CLASS SPECIFIED AND INTENDED APPLICATION. GRATES SHALL BE SECURED USING 'QUICKLOK' BOLTLESS LOCKING SYSTEM. CHANNEL AND GRATE SHALL BE CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

3 ACO K100 4" TRENCH DRAIN

Scale: NTS



RESTRICTOR & OVERFLOW DETAIL



TRENCH SECTION

4 STORMWATER STORAGE CHAMBERS AND OVERFLOW

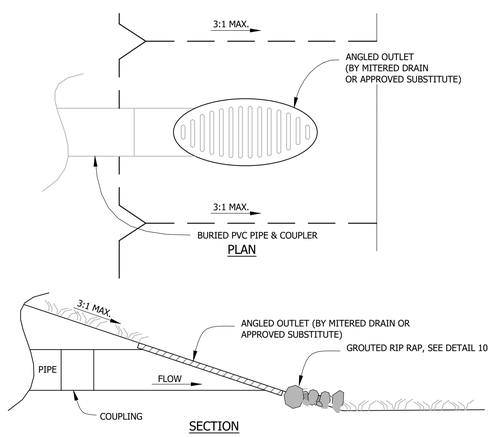
Scale: NTS

5 NOT USED

Scale: NTS

6 NOT USED

Scale: NTS



7 ANGLED STORM DRAIN OUTLET

Scale: NTS

REVISIONS	BY

CONSTRUCTION DETAILS

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
Exp. 6/30/25
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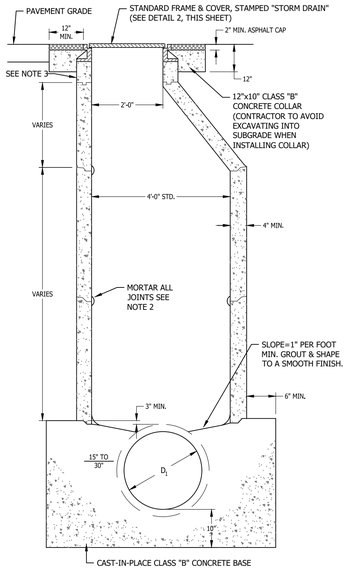


NOTES:

1. PRECAST CONCRETE PIPE SECTIONS, ADJUSTMENT RINGS AND TAPERED SECTIONS SHALL CONFORM TO CLASS II REINFORCED CONCRETE PIPE (ASTM C 76).

2. ALL RAMNECK JOINTS SHALL BE SMOOTHLY FINISHED WITH WATER PROOF MORTAR.

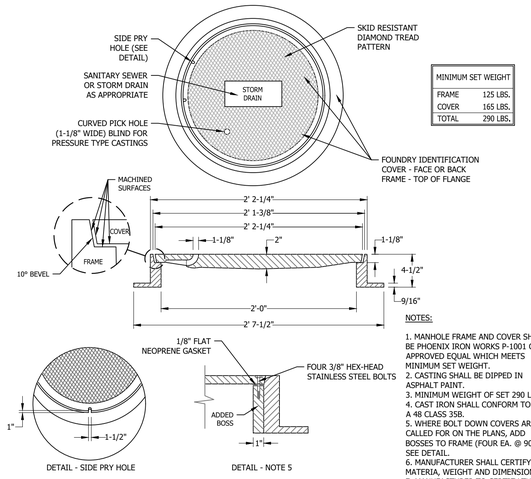
3. THE USE OF MORE THAN 12" OF ADJUSTING RINGS TO CONFORM TO GRADE SHALL NOT BE PERMITTED.

4. CONCENTRIC MANHOLES MAY BE USED WHEN A UTILITY CONFLICT OCCURS OR WHEN APPROVED BY THE CITY ENGINEER.

5. ALL INCOMING LINES TO BE SET TO MATCH CROWNS WITH OTHER PIPES IN MANHOLE, OR AS DIRECTED BY THE CITY ENGINEER.

1 48" PRE CAST STORM DRAIN MANHOLE

NTS



MINIMUM SET WEIGHT	
FRAME	125 LBS.
COVER	165 LBS.
TOTAL	290 LBS.

NOTES:

1. MANHOLE FRAME AND COVER SHALL BE PHOENIX IRON WORKS P-1001 OR AN APPROVED EQUAL WHICH MEETS MINIMUM SET WEIGHT.
2. CASTING SHALL BE DIPPED IN ASPHALT PAINT.
3. MINIMUM WEIGHT OF SET 290 LBS.
4. CAST IRON SHALL CONFORM TO ASTM A 48 CLASS 35B.
5. WHERE BOLT DOWN COVERS ARE CALLED FOR ON THE PLANS, ADD BOSSES TO FRAME (FOUR EA. @ 90°), SEE DETAIL.
6. MANUFACTURER SHALL CERTIFY MATERIA, WEIGHT AND DIMENSIONS.
7. MANUFACTURER TO CERTIFY THAT FRAME AND COVER MEET ALL LOAD REQUIREMENTS FOR H-20 HIGHWAY LOADING.

2 STORM DRAIN MANHOLE COVER

Scale: NTS

REVISIONS	BY

CONSTRUCTION DETAILS

REGISTERED PROFESSIONAL ENGINEER
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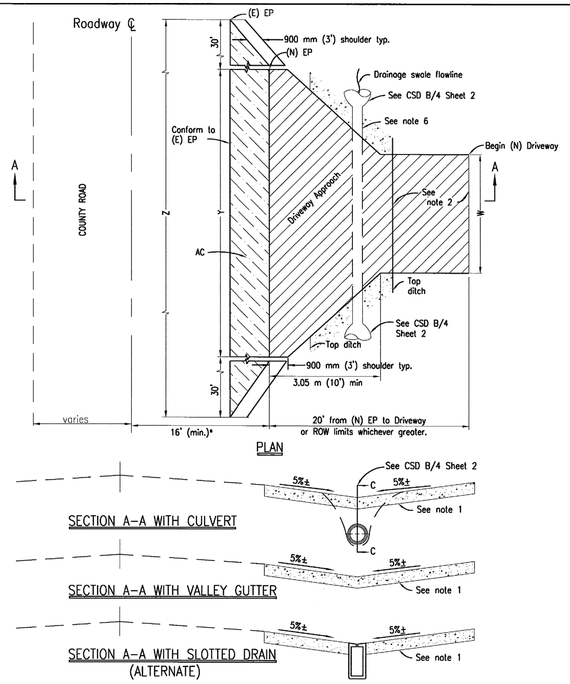
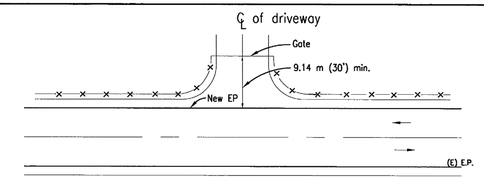




DRIVEWAY – RURAL

NOTES

1. The driveway approach structural section shall be constructed of one of the following sections:
   A. 2" Asphalt Concrete (AC) on 100 mm (4") class 1 Aggregate Sub-base (ASB).
   B. 150 mm (6") deep strength AC.
   C. 100mm (4") class B concrete on 100mm (4") class 3 Aggregate Base (AB)**
2. A weakened plane joint is required at location shown when 100 mm (4") class B concrete driveway approach section is installed.
3. The permittee shall provide erosion protection plantings and facilities when and as required by Road Commissioner.
4. The permittee shall obtain necessary slope easements when required excavations and embankments extend beyond his property or easement.
5. All work shall be in accordance with the County's Standard Specifications.
6. Install 300 mm (18") min. dia. culvert or valley gutter as specified on the encroachment permit. Culvert material shall be Corrugated Metal Pipe (CMP), Reinforced Concrete Pipe (RCP), double-walled High Density Polyethylene (HDPE), Schedule 80 Polyvinyl Chloride (PVC) or approved equivalent.
7. Sight panels shall be installed on both ends of culvert per County Standard Detail B/16.

* Refer to County Standard Detail A/4 for actual width.
** Applicable only if tie-into existing concrete curb, gutter and/or sidewalk.

LEGEND

(E) Existing
EP Edge of pavement
(N) New
ROW Right of way
W= 12' Min. (Driveway width)
Z= 92' Min. or Y+60'
Y= 32' Min. or W+20' (Driveway approach)

METRIC (& ENGLISH) UNITS

NO.	REVISIONS	BY	DATE	APP'D

SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT

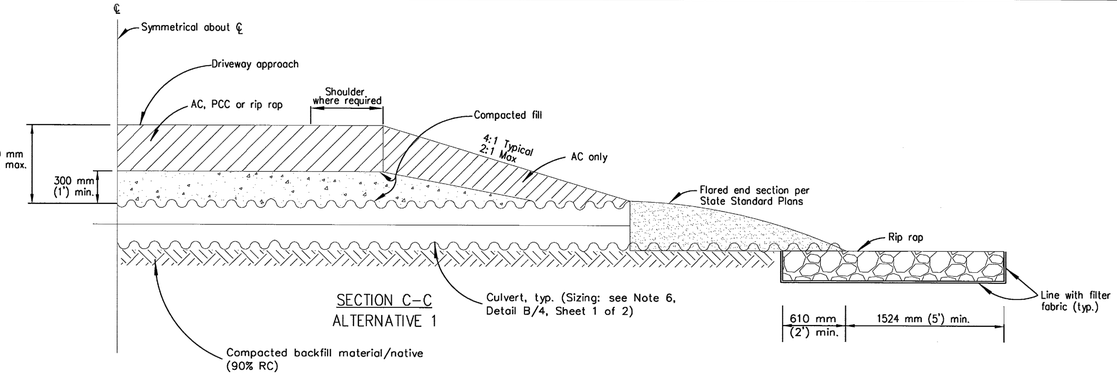
PFP 06/02/14 DESIGNED DATE
PFP 06/02/14 DRAWN DATE
KV 06/30/14 CHECKED DATE
WORK ORDER
LEVEL BOOK
TRANSIT BOOK

SUBMITTED: DANGKHOA T. VO, SENIOR CIVIL ENGINEER
APPROVAL: DAN COLLEN, DEPUTY DIRECTOR

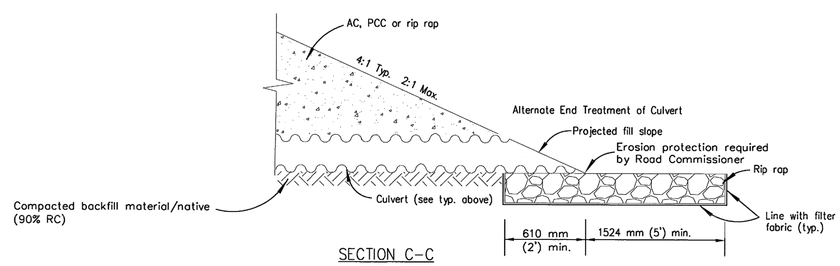
STANDARD DETAILS
RURAL DRIVEWAY APPROACH FOR SINGLE RESIDENCE

DRAWING NO. B/4
SHT NO. 1 of 2
PROJECT NO. CONTRACT NO. FILE NO.

14



SECTION C–C
ALTERNATIVE 1



SECTION C–C
ALTERNATIVE 2

METRIC (& ENGLISH) UNITS

NO.	REVISIONS	BY	DATE	APP'D

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SUBMITTED: DANGKHOA T. VO, SENIOR CIVIL ENGINEER
APPROVAL: DAN COLLEN, DEPUTY DIRECTOR

STANDARD DETAILS
RURAL DRIVEWAY APPROACH FOR SINGLE RESIDENCE

DRAWING NO. B/4
SHT NO. 2 of 2
PROJECT NO. CONTRACT NO. FILE NO.

15

REVISIONS	BY

CONSTRUCTION DETAILS

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:	NTS
Drawn:	DD/ESM
Job:	3007.05
Sheet:	C4.4
	Of 39 Sheets

Drawing: Z:\Drawing\CAD\3007.05 – MP – Lot B Building Permit\Design\CAD\Sheets\3007.05 – C4.4 – DETAILS.dwg Layout: C4.4 – DETAILS Last Saved: Mon Apr 29, 2024 – 3:48pm Last Plotted: Tue May 28, 2024 – 1:23pm By: EricSandfjord

TRIBUTARY AREAS	A	B	TOTAL
TOTAL AREA (Square Feet)	4,902	23,664	**28,566**
TOTAL AREA (Acres)	*0.113*	*0.543*	*0.656*
IMPERVIOUS AREAS	4,222	17,861	22,083
NEW ROOF	3,224	9,793	13,017
NEW AC	0	5,898	5,898
NEW CONCRETE	998	2,170	3,168
EQUIV. IMPERVIOUS AREA	4,222	17,861	22,083
LANDSCAPE/NATURAL AREAS	680	5,803	6,483
RUNOFF COEFICIENT	0.77	0.70	0.71
TIME OF CONCENTRATION	15	15	15
RAINFALL INTENSITY (10YR)	1.56	1.56	1.56
RUNOFF RATE FOR 10-YR (CFS)	***0.135***	***0.596***	***0.684***
(25 YR)	*0.157*	*0.697*	*0.854*
(50 YR)	*0.170*	*0.754*	*0.925*
(100 YR)	*0.186*	*0.821*	*1.006*

MAINTENANCE SCHEDULE FOR UNDERGROUND STORAGE CHAMBERS

UNDERGROUND STORAGE CHAMBERS ARE INTENDED TO:

1. STORE STORMWATER ONSITE AND BELOW GRADE.
2. POND WATER BEFORE OVERFLOWING TO A DRAIN INLET.
3. INFILTRATE COMPLETELY FOLLOWING EACH RAIN EVENT.

UNDERGROUND STORAGE CHAMBERS ARE NOT INTENDED TO:

1. ALLOW COLLECTION OF SEDIMENT.
2. BE ACCESSED BY ANYONE OTHER THAN AUTHORIZED PERSONNEL

THE RECOMMENDED ROUTINE MAINTENANCE ACTIVITIES FOR UNDERGROUND STORAGE CHAMBERS ARE:

ON AN AS-NEEDED BASIS:

1. REMOVE ANY SEDIMENT BUILD-UP, FALLEN LEAVES, DEBRIS, AND TRASH.
2. CHECK STORM DRAIN INLET AT OUTLET. REMOVE SEDIMENT BUILD-UP, FALLEN LEAVES, DEBRIS, AND TRASH.

ANNUALLY, PRIOR TO THE BEGINNING OF THE RAINY SEASON:

1. OPEN INSPECTION PORT AND LOOK FOR SIGNS OF SEDIMENT, LEAVES, DEBRIS, AND/OR TRASH COLLECTION WITHIN THE UG CHAMBERS. IF SEDIMENT, LEAVES, DEBRIS, AND/OR TRASH IS OBSERVED, REMOVE BY MEANS OF A VACUUM TRUCK. IF SIGNIFICANT SEDIMENT, LEAVES, DEBRIS, AND/OR TRASH IS OBSERVED, CONSULT A CIVIL ENGINEER OR LANDSCAPE ARCHITECT.
2. ORIFICE SHALL BE INSPECTED AND ANY BLOCKAGE OF ANY KIND (I.E. SEDIMENT, TRASH, ETC.) SHALL BE REMOVED
3. PRE-TREATMENT / CONTAMINANT SCREENING INLET SHALL BE INSPECTED AND ALL TRASH, LEAVES, DEBRIS AND/OR SEDIMENT SHALL BE REMOVED
4. INSPECT CHANNEL ADJACENT TO DRIVEWAY OUT TO COX ROAD. ALL TRASH AND DEBRIS SHALL BE REMOVED.

ANNUALLY, AT THE END OF THE RAINY SEASON:

1. REMOVE TRASH, DEBRIS, VEGETATION, AND ACCUMULATED SEDIMENT IN THE PRE-TREATMENT / CONTAMINANT SCREENING INLET.
2. 1. REMOVE TRASH, DEBRIS, VEGETATION, AND ACCUMULATED SEDIMENT FOUND OTHER INLETS
3. DO NOT INSTALL ANY MATERIAL INTO THE UNDERGROUND STORM CHAMBER VOID SPACE.

MAJOR FACILITY CHANGES OR RENOVATION:

CONTACT THE PROJECT CIVIL ENGINEER (**C2G / CIVIL CONSULTANTS GROUP, INC.**), OR OTHER QUALIFIED ENGINEER OR LANDSCAPE ARCHITECT, IN THE EVENT THAT MAJOR WORK IS CONTEMPLATED IN OR ADJACENT TO THE FACILITY. MAJOR WORK INCLUDES:

- REPLACING FILTER-FABRIC ABOVE THE ROCK EMBEDMENT.
- MODIFYING THE "ENGINEERED" ELEMENTS OF THE FACILITY, INCLUDING DRAIN INLETS, PIPES, SUBSURFACE DRAINS, WATER BARRIERS, AND STRUCTURAL ELEMENTS.
- IMPROVEMENTS IN AREAS WHICH DRAIN TO THE FACILITY; ESPECIALLY IMPROVEMENTS WHICH WOULD INCREASE THE AREA OF IMPERVIOUS SURFACE WHICH DRAINS TO THE FACILITY.

GENERAL SITE AND STORM DRAINAGE FACILITY MAINTENANCE

PAVEMENTS:

1. COLLECT TRASH AND SWEEP PAVEMENTS REGULARLY TO PREVENT ACCUMULATION OF SOIL, DEBRIS, AND TRASH.

LANDSCAPING:

1. REMOVE DEBRIS AND TRASH REGULARLY.
2. PRUNE OR CUT BACK PLANTS FOR HEALTH AND TO ENSURE STORMWATER IS ABLE TO FLOW INTO INLETS AND THROUGH CURB CUTS.
3. CONTROL WEEDS BY MANUAL METHODS.
4. EXAMINE THE VEGETATION TO ENSURE THAT IT IS HEALTHY AND DENSE ENOUGH TO PROTECT SOILS FROM EROSION. REMOVE AND REPLACE ALL DEAD AND DISEASED VEGETATION.

STORM DRAIN INLETS AND PIPES

1. CLEAN STORM DRAIN INLETS AND OTHER CONVEYANCE STRUCTURES BEFORE THE WET SEASON TO REMOVE SEDIMENTS, TRASH AND DEBRIS ACCUMULATED DURING THE SUMMER.
2. CONDUCT INSPECTIONS AND CLEAN AND MAINTAIN STORM DRAIN INLETS AND STORM DRAIN PIPES DURING THE RAINY SEASON ON A FREQUENCY NECESSARY TO MAINTAIN THE SYSTEM IN PROPER WORKING ORDER.

ANNUALLY, PRIOR TO THE BEGINNING OF THE RAINY SEASON:

1. REMOVE TRASH, DEBRIS, DEAD VEGETATION, AND ACCUMULATED SEDIMENT.
2. VISUALLY INSPECT ALL FACILITIES TO DETERMINE IF ANY MAINTENANCE ACTIVITIES ARE REQUIRED IN ORDER TO BE PREPARED FOR THE UPCOMING SEASON.
3. INSPECT DRAINAGE OUTLETS FOR SIGNS OF EROSION OR PLUGGING. IF MINOR EROSION IS OBSERVED, BACKFILL THE ERODED AREA. ROCK RIP RAP OR A CONCRETE SPLASH PAD MAY BE NEEDED TO AVOID FUTURE EROSION. IF SIGNIFICANT EROSION IS OBSERVED, CONSULT A CIVIL ENGINEER OR LANDSCAPE ARCHITECT.
4. INSPECT SOIL SLOPES FOR EVIDENCE OF INSTABILITY OR EROSION. IF MINOR EROSION IS OBSERVED, BACKFILL THE ERODED AREA, AND COVER THE AREA WITH MULCH OR EROSION CONTROL BLANKET TO PREVENT FUTURE EROSION. IF SIGNIFICANT EROSION IS OBSERVED, OR IF THERE IS EVIDENCE OF INSTABILITY, CONSULT A CIVIL ENGINEER OR LANDSCAPE ARCHITECT.

ANNUALLY, AT THE END OF THE RAINY SEASON:

1. REMOVE TRASH, DEBRIS, VEGETATION, AND ACCUMULATED SEDIMENT.
2. DETERMINE IF ANY MAINTENANCE, REPAIR, OR REHABILITATION ACTIVITIES SHOULD BE SCHEDULED, SINCE MANY OF THESE ACTIVITIES NEED TO BE PERFORMED DURING THE DRY SEASON.
3. MANUALLY FLUSH ALL IRRIGATION VALVES SERVING SUBSURFACE DRIP IRRIGATION ZONES.

REVISIONS	BY

STORM WATER MANAGEMENT

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

C2G /CIVIL CONSULTANTS GROUP, INC.
Engineers/Planners
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GOKULAM, LLC.
LOT B – DESIGN REVIEW
2425 OLD CALAVERAS ROAD, MILPITAS
APN: 029-34-004

Date:	11/10/2023
Scale:	1" = 20'
Drawn:	DD/ESM
Job:	3007.05
Sheet:	C5.1
Of	39 Sheets

Drawing: Z:\Drawing\CAD\3007.05 - INF - Lot B Building Permit\Design\CAD\Sheets\3007.05 - C5.1 - STORM WATER MANAGEMENT.dwg Layout: C5.1 - STORM WATER MANAGEMENT Last Saved: Wed May 01, 2024 - 5:17pm Last Plotted: Tue May 28, 2024 - 1:23pm By: EvaSoldiguel

ARCHITECTURAL SYMBOLS

000 / 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
1 / A	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
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
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
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
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

SHEET NUMBER	SHEET NAME
A0.01	ABBREVIATIONS, SYMBOLS, AND LEGENDS
A3.00	FLOOR AREA CALCULATION
A3.01	FLOOR PLAN - LEVEL 1
A3.02	FLOOR PLAN - LEVEL 2 & LEVEL B
A3.30	ROOF PLAN
A4.01	EXTERIOR ELEVATIONS
A4.02	3D AXONOMETRIC VIEWS
A4.03	PERSPECTIVE FLOOR PLANS
A5.01	BUILDING SECTIONS
Grand total: 9	

PROJECT FOR: GOKULAM, LLC

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HAYDEN MOORE ARCHITECTURE

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NO.	ISSUE/REVISION	DATE
	ENTITLEMENT DRAWINGS	04/09/2024

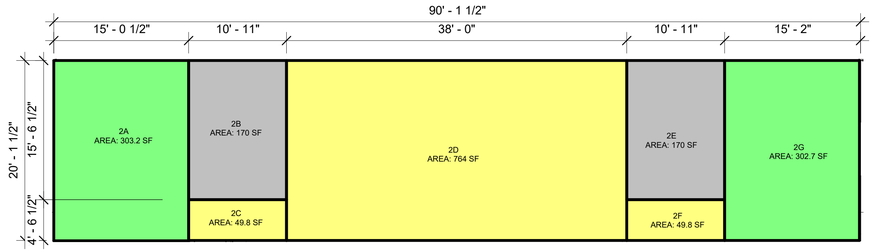
LOT B MAIN HOUSE
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

ABBREVIATIONS, SYMBOLS, AND LEGENDS

DRAWN BY:	HM
CHECKED BY:	HM
DATE:	04/09/2024
SCALE:	As indicated

A0.01



2 FLOOR AREA - LEVEL 2

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

1 FLOOR AREA - LEVEL 1 & B

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

AREA TABULATION

TAG	WIDTH		LENGTH	AREA
A	25'-0"	x	10'-11.5"	273.7 SF
B	18'-6"	x	17'-3"	318.8 SF
C	6'-6"	x	17'-0"	110 SF
D	23'-8"	x	16'-6"	390.5 SF
E	30'-4"	x	18'-6"	560.2 SF
F	29'-8.5"	x	16'-6"	489.8 SF
G	15'-1.5"	x	14'-3"	215.4 SF
H	19'-3"	x	4'-3"	81.4 SF
I	30'-1.5"	x	16'-6"	497.3 SF
J	4'-1.5"	x	14'-3"	58.9 SF
K	15'-5.5"	x	6'-2.5"	95.7 SF
L	15'-5.5"	x	12'-3.5"	189.6 SF
M	15'-5.5"	x	30'-5"	469.5 SF
N	30'-5"	x	4'-6.5"	138.2 SF
O	6'-6"	x	4'-0.5"	26 SF
P	13'-6"	x	19'-7"	264.2 SF
Q	6'-11.5"	x	15'-7"	108.6 SF
R	11'-0"	x	15'-7"	171.2 SF
S	6'-11.5"	x	15'-7"	108.3 SF
T	11'-0"	x	15'-7"	171.2 SF
U	39'-5"	x	4'-5.5"	176.4 SF
V	15'-7"	x	10'-0"	155.6 SF
W	10'-1.5"	x	19'-7"	203.1 SF
X	20'-5.5"	x	19'-7"	400.4 SF
Y	4'-6.5"	x	20'-2.5"	91.6 SF
Z	20'-5.5"	x	20'-8.5"	423.2 SF
2A	15'-0.5"	x	20'-1.5"	303.2 SF
2B	15'-0.5"	x	10'-11"	170 SF
2C	4'-6.5"	x	10'-11"	49.8 SF
2D	20'-1.5"	x	38'-0"	764 SF
2E	51'-4.5"	x	20'-1.5"	170 SF
2F	7'-11.5"	x	10'-11.5"	49.8 SF
2G	3'-10.5"	x	9'-2"	302.7 SF
	TOTAL:			7998.3 SF

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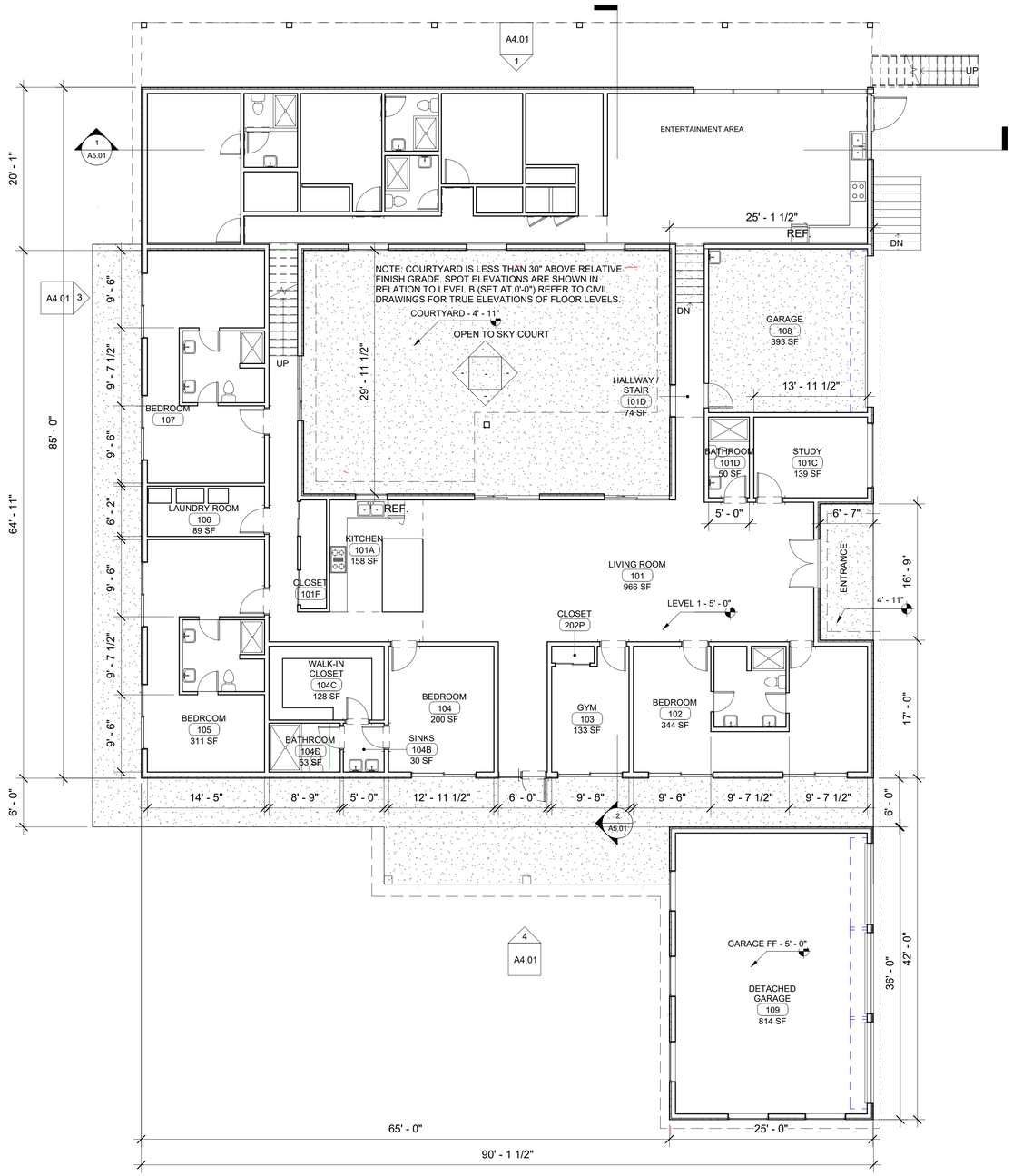
LOT B MAIN HOUSE
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

FLOOR AREA CALCULATION

DRAWN BY: HM
CHECKED BY: HM
DATE: 04/09/2024
SCALE: 1/8" = 1'-0"

A3.00



1 LEVEL 1

1/8" = 1'-0"

NOTE: SPOT ELEVATIONS ARE RELATIVE TO THE BUILDING FLOOR LEVELS ONLY. SEE ELEVATIONS/SECTIONS FOR CLARITY. REFER TO CIVIL DRAWINGS FOR TRUE ELEVATIONS.

REFER TO CIVIL PLANS FOR SITE PLAN, SITE INFORMATION, PROPERTY LINES, DRIVEWAYS, AND SETBACKS.

AREA TABULATION

LEVEL	ROOM(S)	GROSS AREA
LEVEL B (-5'-0")	ENTERTAINMENT ROOM, BEDROOM(S), BATHROOM(S)	1,800 SF
LEVEL 1 (0'-0")	LIVING ROOM, BEDROOM(S), KITCHEN, BATHROOM(S), LAUNDRY, ATTACHED GARAGE	4,398 SF
LEVEL 2 (+7'-0")	SUNROOM, BATHROOM, STORAGE	1,800 SF
TOTAL ENCLOSED:		**7,998 SF**
LEVEL B (-5'-0")	COVERED PATIO	720 SF
LEVEL 1 (0'-0")	COVERED PATIO	971 SF
TOTAL COVERED / PARTIALLY EXPOSED:		**1,714 SF**
LEVEL 1 (0'-0")	DETACHED GARAGE	900 SF
GRAND TOTAL:		**10,604 SF**

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

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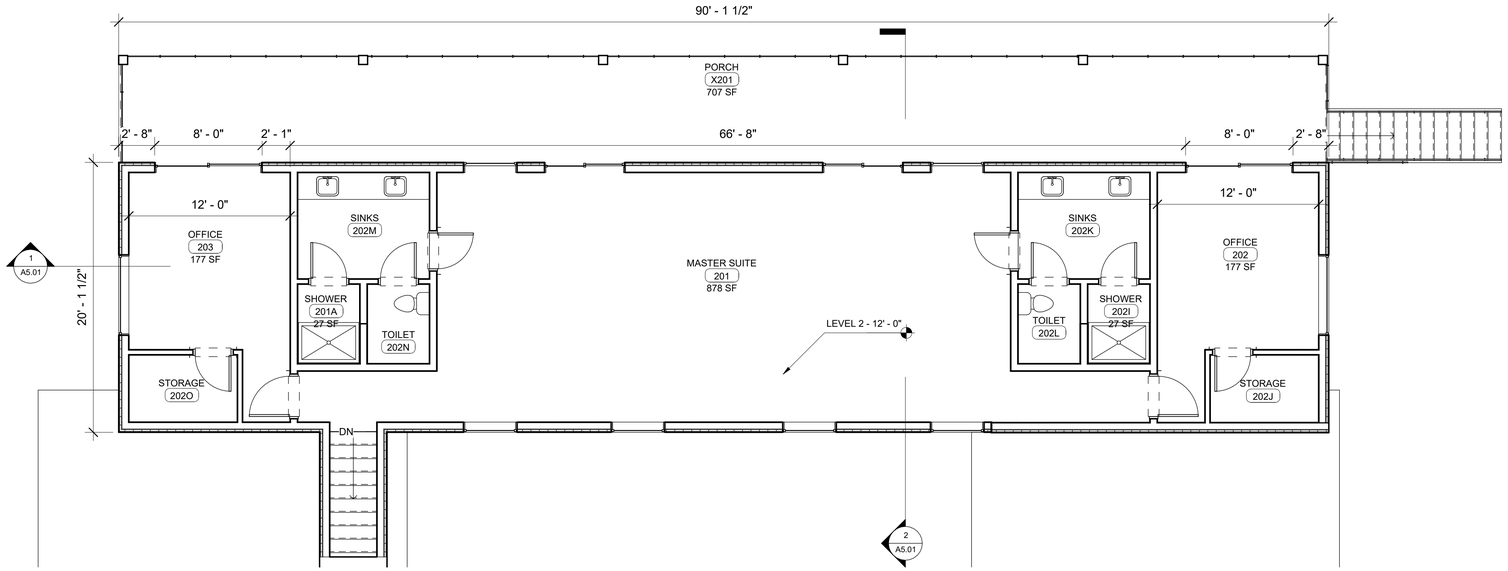
LOT B MAIN HOUSE
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

FLOOR PLAN - LEVEL 1

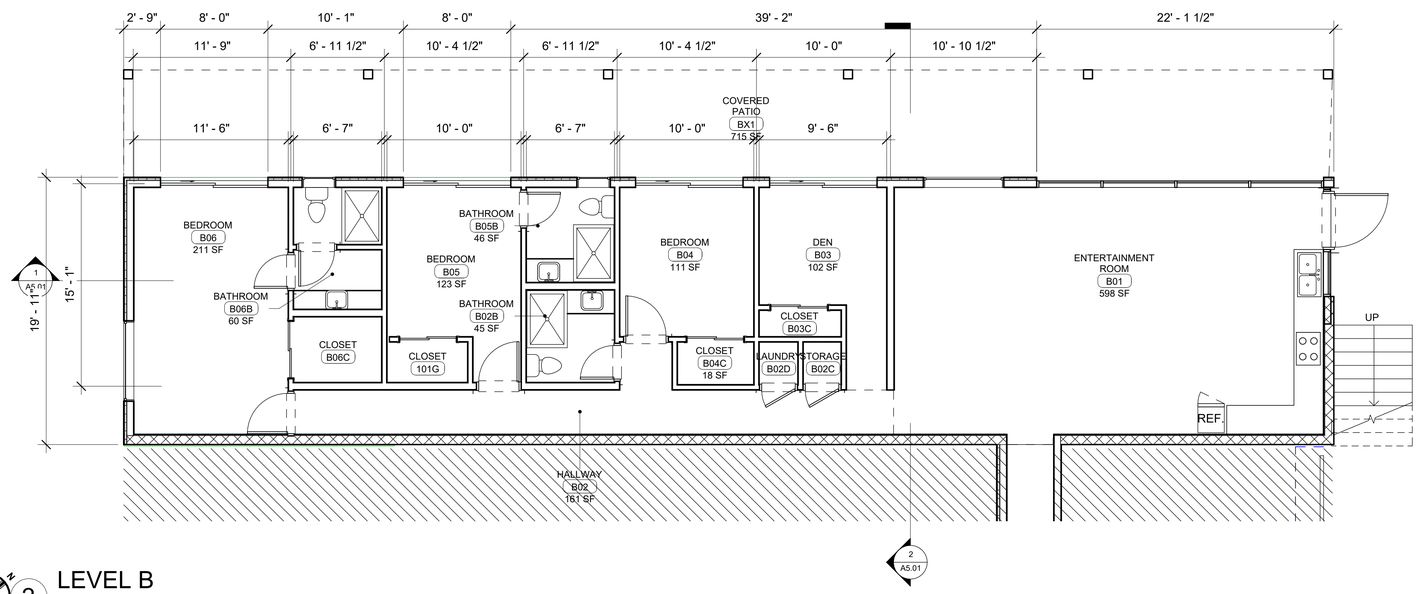
DRAWN BY:	HM
CHECKED BY:	HM
DATE:	04/09/2024
SCALE:	As indicated

A3.01



1 LEVEL 2

3/16" = 1'-0"



2 LEVEL B

3/16" = 1'-0"

AREA TABULATION		
LEVEL	ROOM(S)	GROSS AREA
LEVEL B (-5'-0")	ENTERTAINMENT ROOM, BEDROOM(S), BATHROOM(S)	1,800 SF
LEVEL 1 (0'-0")	LIVING ROOM, BEDROOM(S), KITCHEN, BATHROOM(S), LAUNDRY, ATTACHED GARAGE	4,398 SF
LEVEL 2 (+7'-0")	SUNROOM, BATHROOM, STORAGE	1,800 SF
TOTAL ENCLOSED:		**7,998 SF**
LEVEL B (-5'-0")	COVERED PATIO	720 SF
LEVEL 1 (0'-0")	COVERED PATIO	971 SF
TOTAL COVERED / PARTIALLY EXPOSED:		**1,714 SF**
LEVEL 1 (0'-0")	DETACHED GARAGE	900 SF
GRAND TOTAL:		**10,604 SF**

3/16" SCALE 8' 6' 4' 3' 2' 1' 0' 8' 16' 24' 0'

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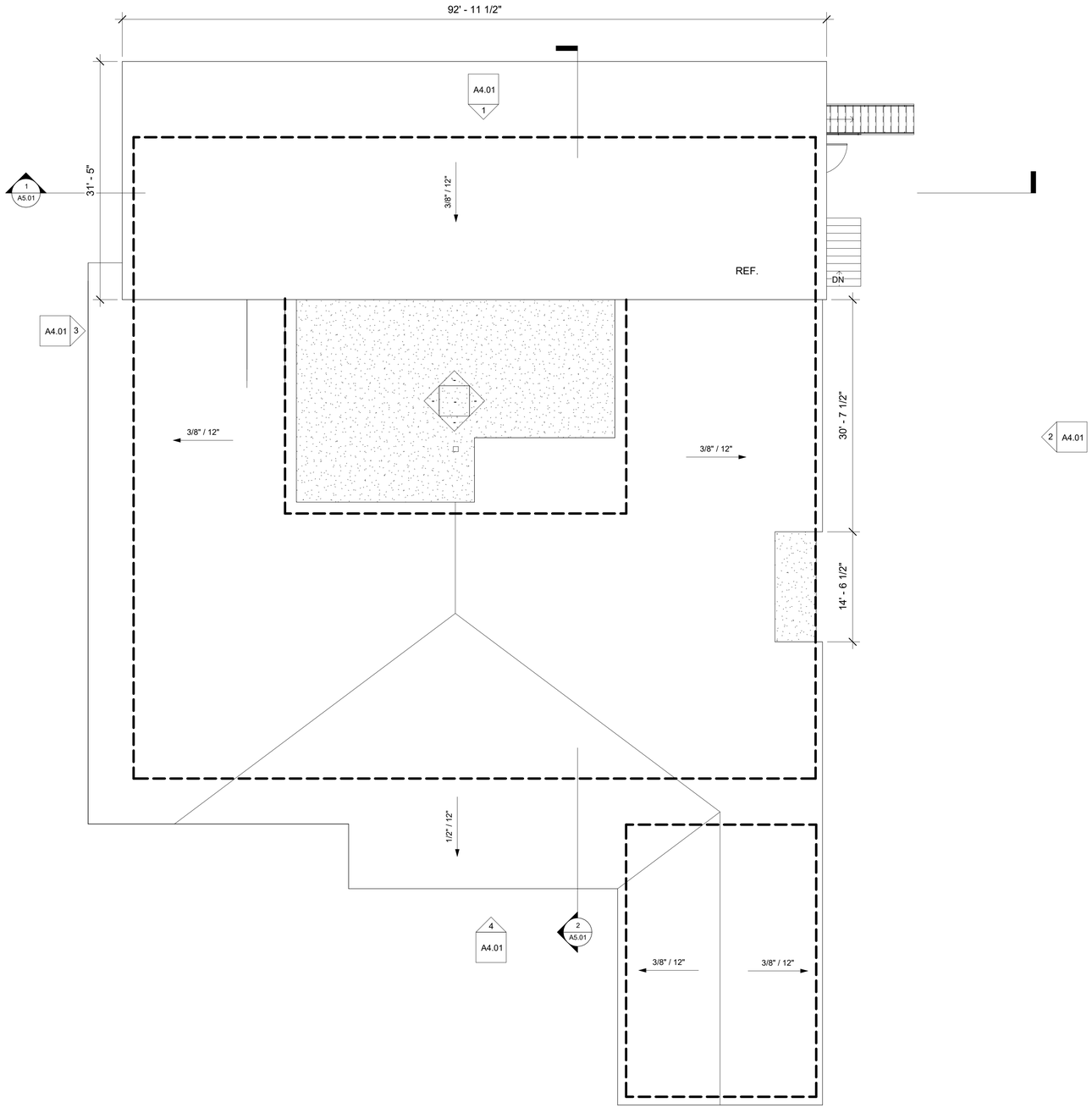
LOT B MAIN HOUSE
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

FLOOR PLAN - LEVEL 2 & LEVEL B

DRAWN BY: HM
CHECKED BY: HM
DATE: 04/09/2024
SCALE: As indicated

A3.02



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

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

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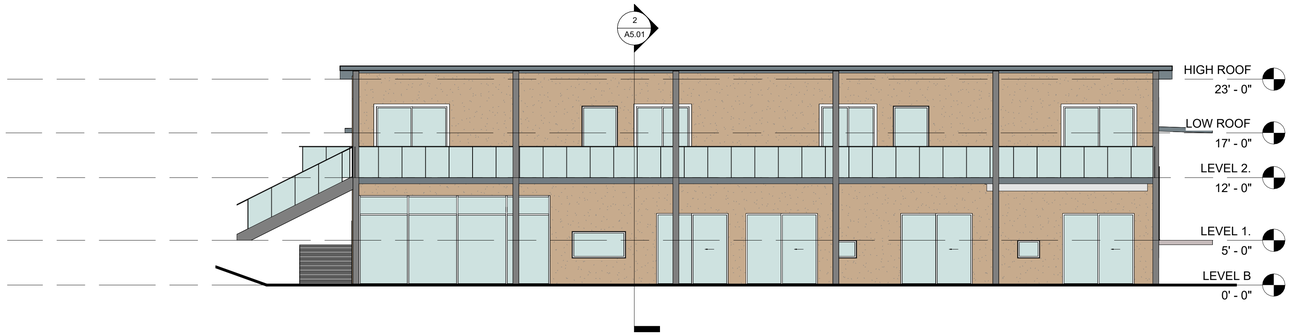
LOT B MAIN HOUSE
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

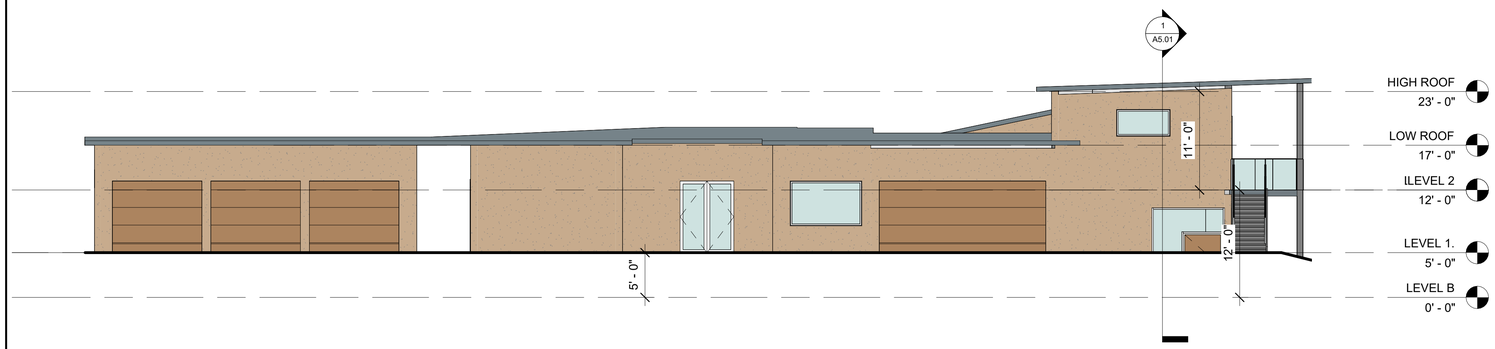
ROOF PLAN

DRAWN BY:	HM
CHECKED BY:	HM
DATE:	04/09/2024
SCALE:	1/8" = 1'-0"

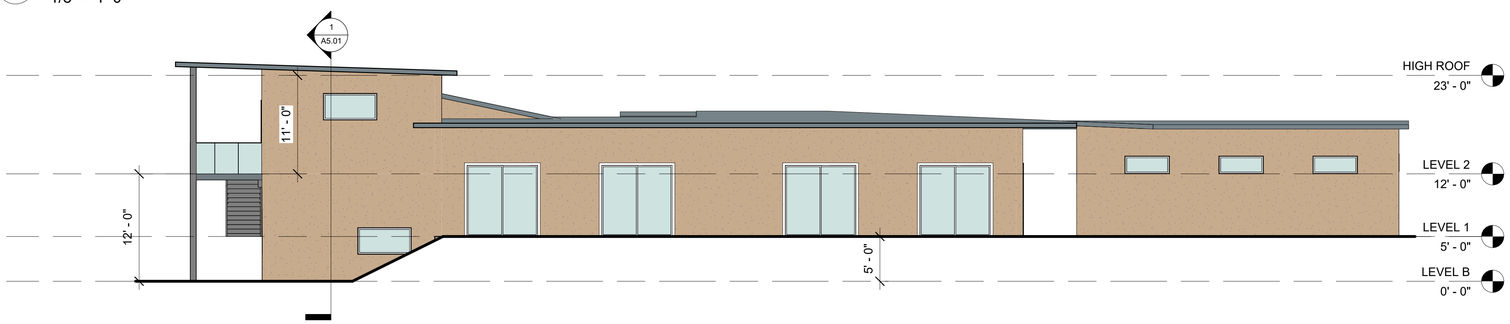
A3.30



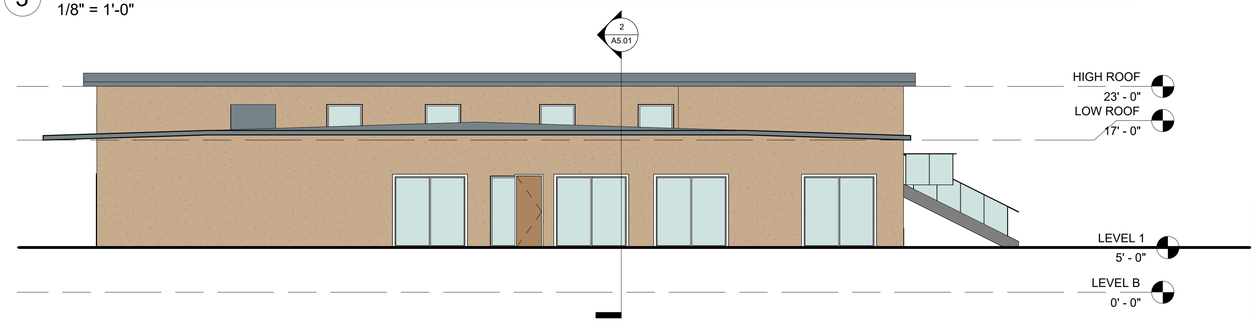
1 NORTH ELEVATION
1/8" = 1'-0"



2 EAST ELEVATION
1/8" = 1'-0"



3 WEST ELEVATION
1/8" = 1'-0"



4 SOUTH ELEVATION
1/8" = 1'-0"

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

COLOR AND MATERIAL LEGEND

WALL CLADDING	METAL ROOFING, GUTTERS, EAVES	DECORATIVE SIDING	GARAGE DOOR	DOOR & WINDOW FRAMES, & TRIMS
PALM DESERT TAN (LRV 43.07)	WOLF GREY (LRV 19.89)	MSI ALASKA GRAY (LRV 44.42)	WOOD FINISH (LRV 35.71)	WHITE (LRV 99.2)

PROJECT FOR: GOKULAM, LLC

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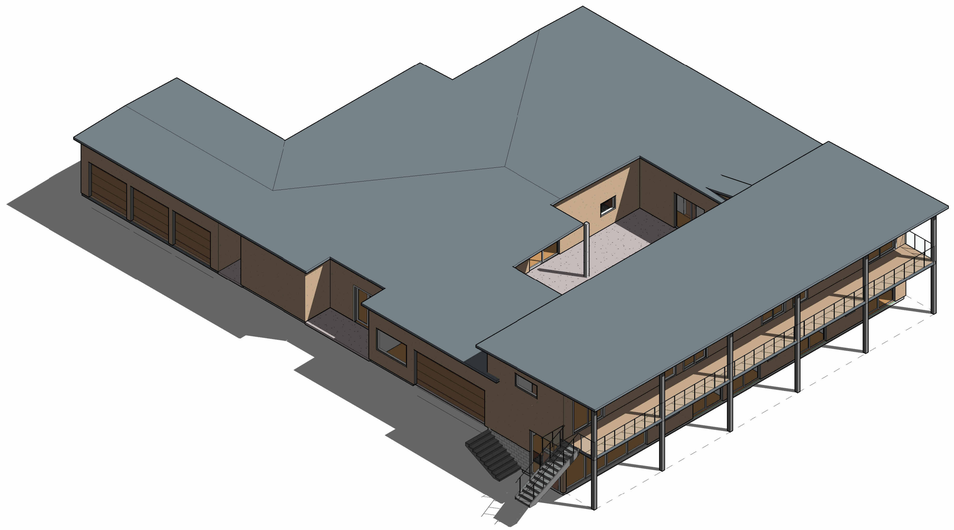
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

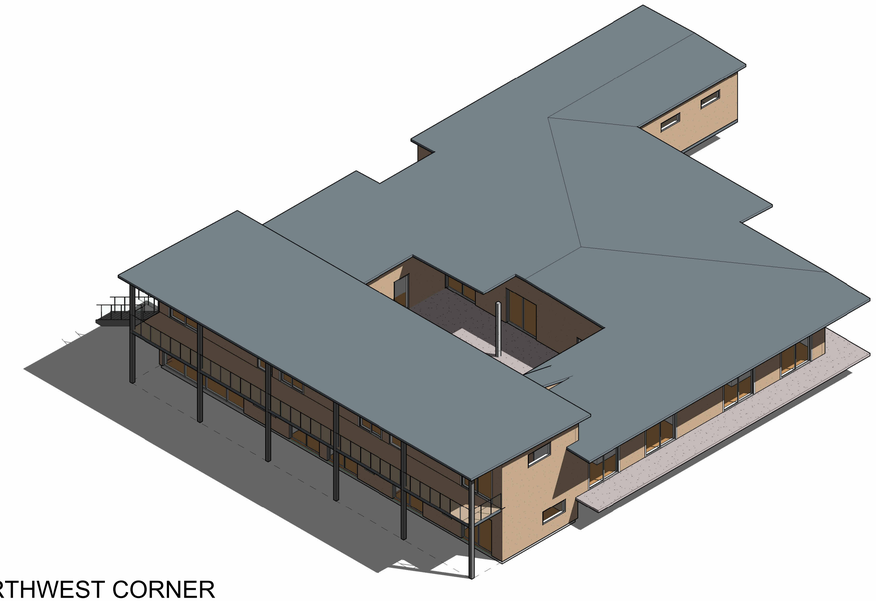
EXTERIOR ELEVATIONS

DRAWN BY:	HM
CHECKED BY:	HM
DATE:	04/09/2024
SCALE:	As indicated

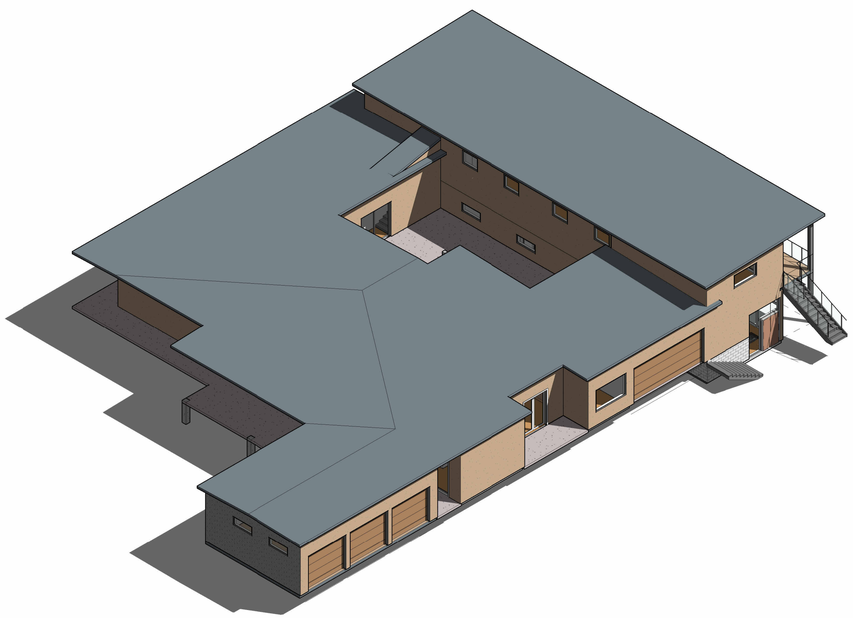
A4.01



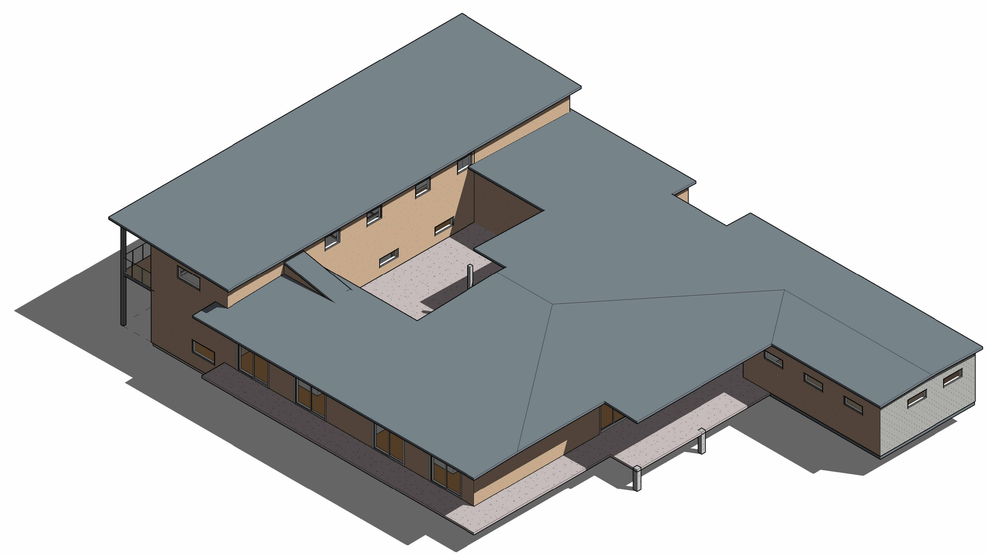
1 NORTHEAST CORNER
Scale:



2 NORTHWEST CORNER



3 SOUTHEAST CORNER



4 SOUTHWEST CORNER

COLOR AND MATERIAL LEGEND

WALL CLADDING	METAL ROOFING, GUTTERS, EAVES	DECORATIVE SIDING	GARAGE DOOR	DOOR & WINDOW FRAMES, & TRIMS
PALM DESERT TAN (LRV 43.07)	WOLF GREY (LRV 19.89)	MSI ALASKA GRAY (LRV 44.42)	WOOD FINISH (LRV 35.71)	WHITE (LRV 99.2)

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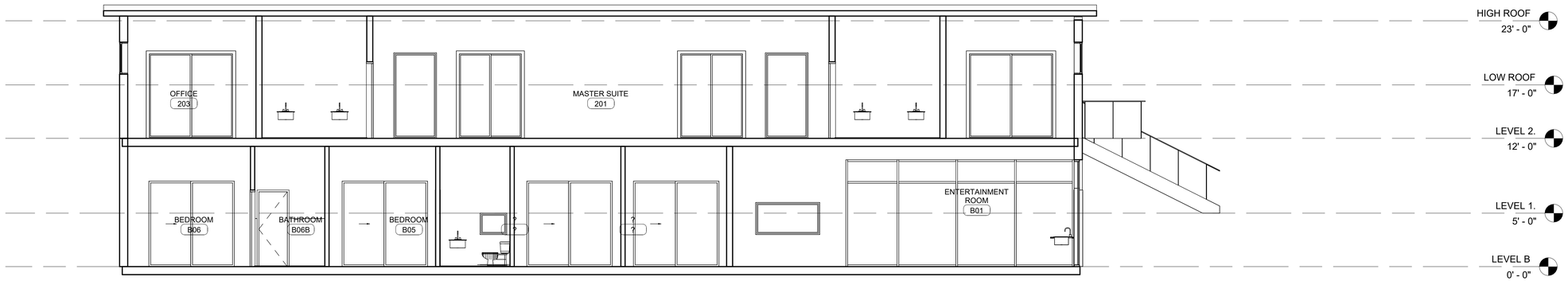
LOT B MAIN HOUSE
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

3D AXONOMETRIC VIEWS

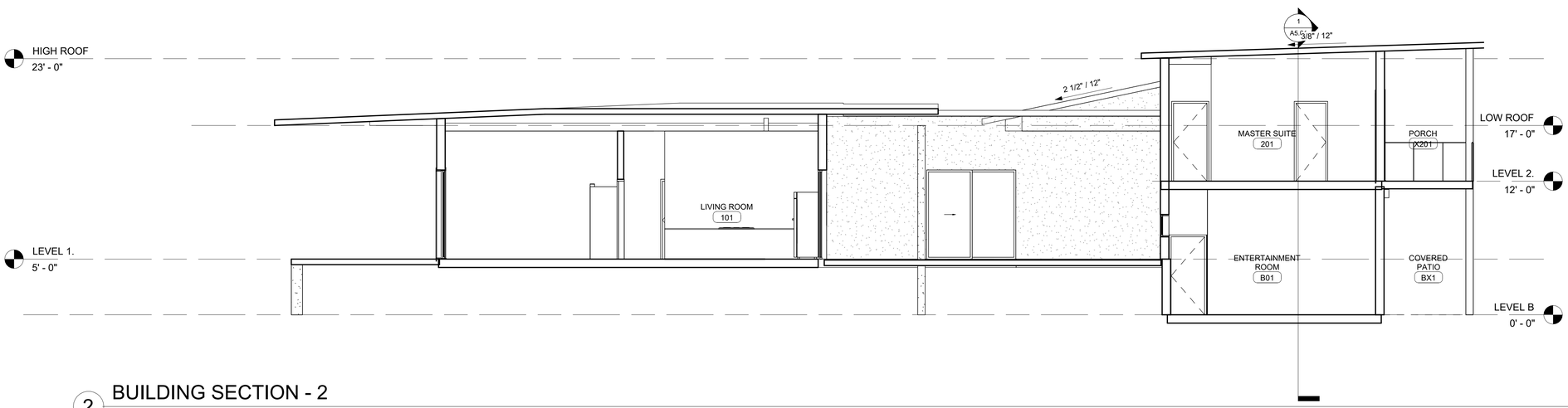
DRAWN BY:	HM
CHECKED BY:	HM
DATE:	04/09/2024
SCALE:	NTS

A4.02



1 BUILDING SECTION - 1

3/16" = 1'-0"



2 BUILDING SECTION - 2

3/16" = 1'-0"

3/16" SCALE

8' 6' 4' 3' 2' 1' 0' 8' 16' 24'

0'

PROJECT FOR: GOKULAM, LLC

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LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

BUILDING SECTIONS

DRAWN BY:	HM
CHECKED BY:	HM
DATE:	04/09/2024
SCALE:	3/16" = 1'-0"

A5.01

ARCHITECTURAL SYMBOLS

000 / 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
1 A B	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

SHEET NUMBER	SHEET NAME
A0.01	ABBREVIATIONS, SYMBOLS, AND LEGENDS
A3.01	FLOOR PLAN - LEVEL 1
A3.02	ROOF PLAN
A4.01	ELEVATIONS
A4.02	ELEVATIONS
A4.03	3D EXTERIOR
A5.01	SECTIONS
Grand total: 7	

PROJECT FOR: GOKULAM, LLC

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NO.	ISSUE/REVISION	DATE
	ENTITLEMENT DRAWINGS	04/09/2024

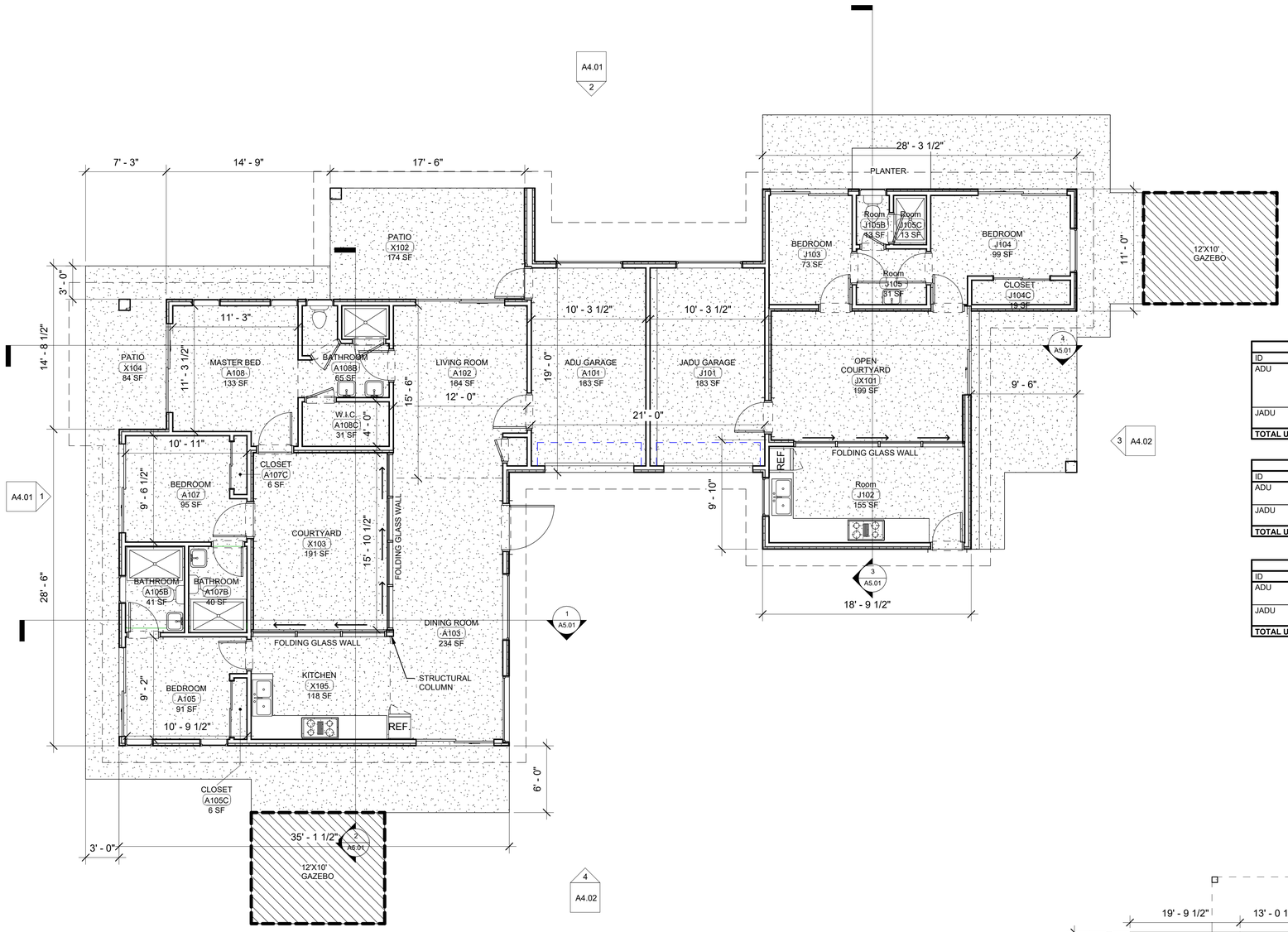
LOT B ADU/JADU
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

ABBREVIATIONS, SYMBOLS, AND LEGENDS

DRAWN BY: HM
CHECKED BY: HM
DATE: 04/09/2024
SCALE: As indicated

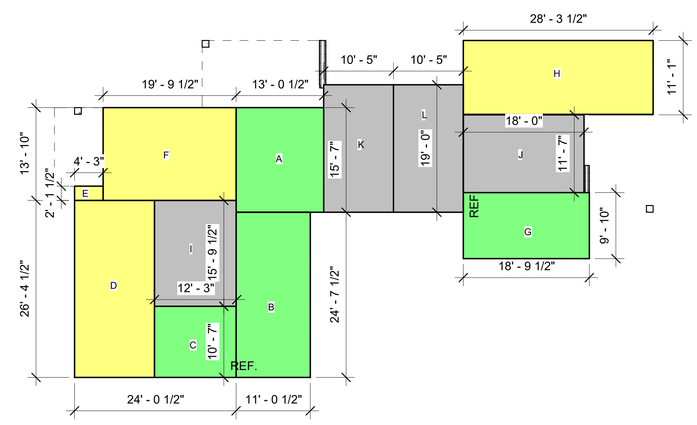
A0.01



COVERED AREA CALCULATIONS		
ID	SIZE(S)	GROSS AREA
ADU	(AREA A) 13'-0.5" X 15'-7" + (AREA B) 24'-7.5" 11'-0.5" + (AREA C) 12'-2" X 10'-7" + (AREA D) 26'-4.5" X 11'-11" + (AREA E) 2'-1.5" X 4'-3" + (AREA F) 19'-9.5" X 13'-10" = (A) 203 + (B)271.8 + (C)128.8 + (D)313.6) + (E)9 + (F)273.7 =	1,200 SF
JADU	(AREA G) 9'-10" X 18'-9.5" + (AREA H) 11'-0" X 28'-3.5" = (G) 185 + (H)311 =	496 SF
TOTAL UNIT AREA ADU + JADU =		**1,696 SF**

COVERED & PARTIALLY ENCLOSED AREA CALCULATIONS		
ID	SIZE(S)	GROSS AREA
ADU	(AREA I) 12'-3 X 15'-9.5" =	192 SF
JADU	(AREA J) 12'-3 X 18'-0" =	208 SF
TOTAL UNIT AREA ADU + JADU =		**400 SF**

GARAGE AREAS		
ID	SIZE(S)	GROSS AREA
ADU	(AREA K) 10'-5"X 19'-0"	198 SF
JADU	(AREA L) 10'-5" X 19'-0"	198 SF
TOTAL UNIT AREA ADU + JADU =		**396 SF**



1 FLOOR PLAN
Scale: 3/16" = 1'-0"

3/16" SCALE

2 FLOOR PLAN - AREA TAB
Scale: 3/32" = 1'-0"

PROJECT FOR: GOKULAM, LLC

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LOT B ADU/JADU
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

FLOOR PLAN - LEVEL 1

DRAWN BY: HM
CHECKED BY: HM
DATE: 04/09/2024
SCALE: As indicated

A3.01

N

1 ROOF PLAN
Scale: 3/16" = 1'-0"

3/16" SCALE 8' 6' 4' 3' 2' 1' 0' 8' 16' 24'

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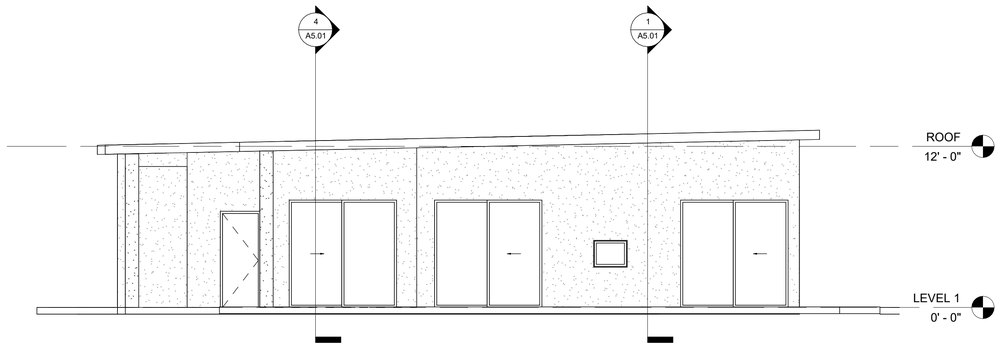
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:
ROOF PLAN

DRAWN BY: HM
CHECKED BY: HM
DATE: 04/09/2024
SCALE: 3/16" = 1'-0"

A3.02



1 Elevation 1 - a

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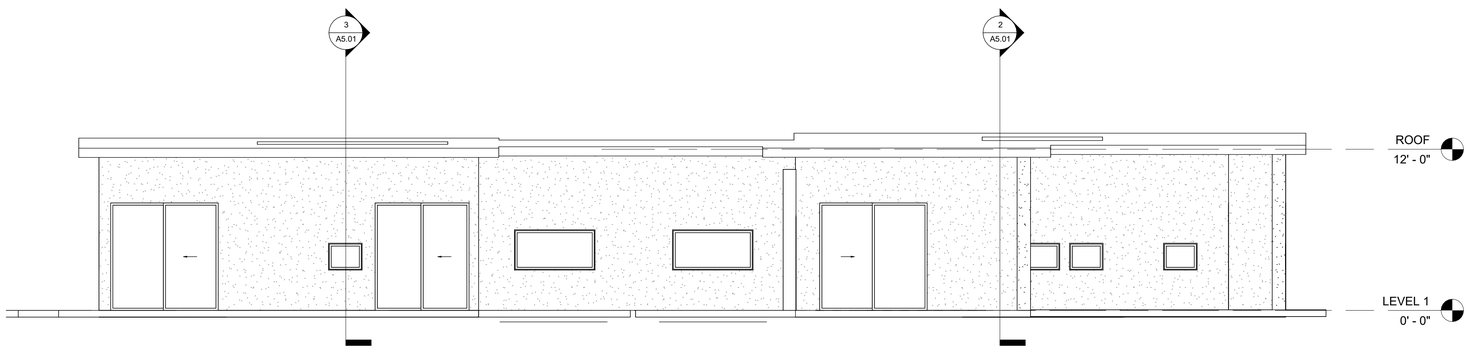

2 Elevation 2 - a

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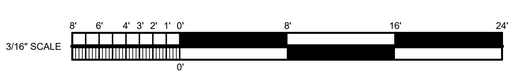

COLOR AND MATERIAL LEGEND

WALL CLADDING	METAL ROOFING, GUTTERS, EAVES	DECORATIVE SIDING	GARAGE DOOR	DOOR & WINDOW FRAMES, & TRIMS
PALM DESERT TAN (LRV 43.07)	WOLF GREY (LRV 19.89)	MSI ALASKA GRAY (LRV 44.42)	WOOD FINISH (LRV 35.71)	WHITE (LRV 99.2)

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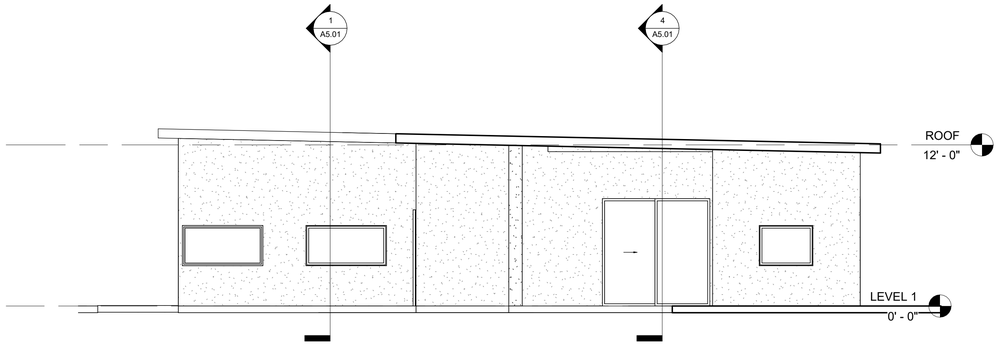
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

ELEVATIONS

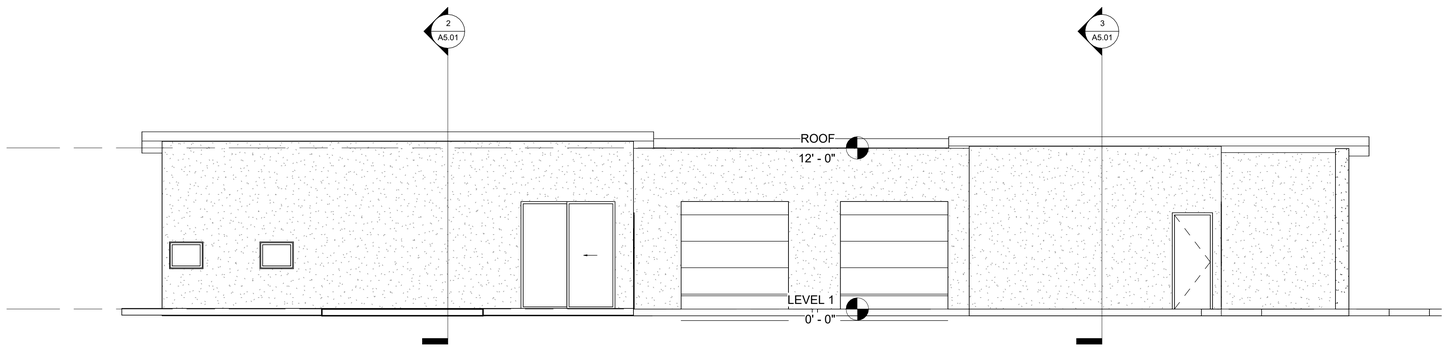
DRAWN BY:	HM
CHECKED BY:	HM
DATE:	04/09/2024
SCALE:	As indicated

A4.01



3 Elevation 3 - a

3/16" = 1'-0"



4 Elevation 4 - a

3/16" = 1'-0"

3/16" SCALE

8' 6' 4' 3' 2' 1' 0' 8' 16' 24'

0'

COLOR AND MATERIAL LEGEND

WALL CLADDING	METAL ROOFING, GUTTERS, EAVES	DECORATIVE SIDING	GARAGE DOOR	DOOR & WINDOW FRAMES, & TRIMS
PALM DESERT TAN (LRV 43.07)	WOLF GREY (LRV 19.89)	MSI ALASKA GRAY (LRV 44.42)	WOOD FINISH (LRV 35.71)	WHITE (LRV 99.2)

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	ENTITLEMENT DRAWINGS	04/09/2024

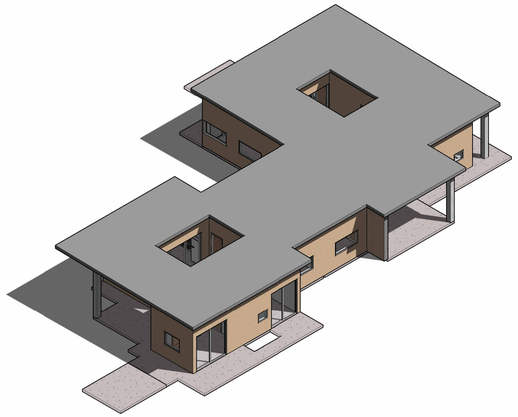
LOT B ADU/JADU
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

ELEVATIONS

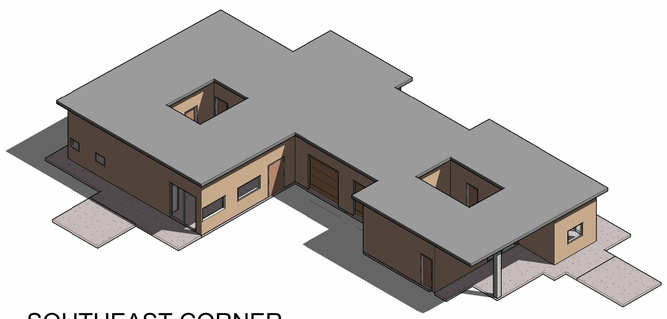
DRAWN BY: HM
CHECKED BY: HM
DATE: 04/09/2024
SCALE: As indicated

A4.02



1 NORTHEAST CORNER

2 NORTHWEST CORNER



3 SOUTHEAST CORNER

4 SOUTHWEST CORNER

3/16" SCALE

8' 6' 4' 3' 2' 1' 0' 8' 16' 24'

0'

COLOR AND MATERIAL LEGEND

WALL CLADDING	METAL ROOFING, GUTTERS, EAVES	DECORATIVE SIDING	GARAGE DOOR	DOOR & WINDOW FRAMES, & TRIMS
PALM DESERT TAN (LRV 43.07)	WOLF GREY (LRV 19.89)	MSI ALASKA GRAY (LRV 44.42)	WOOD FINISH (LRV 35.71)	WHITE (LRV 99.2)

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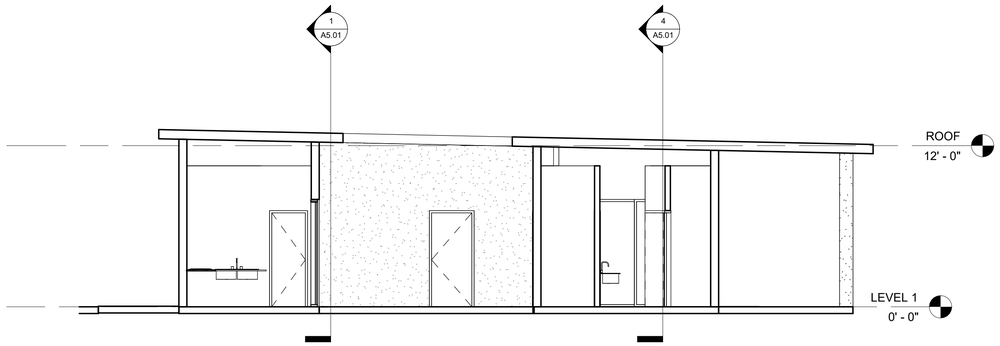
LOT B ADU/JADU
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

3D EXTERIOR

DRAWN BY:	HM
CHECKED BY:	HM
DATE:	04/09/2024
SCALE:	As indicated

A4.03



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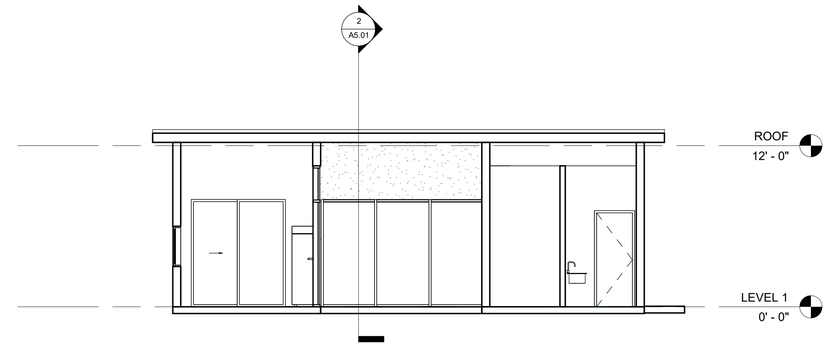

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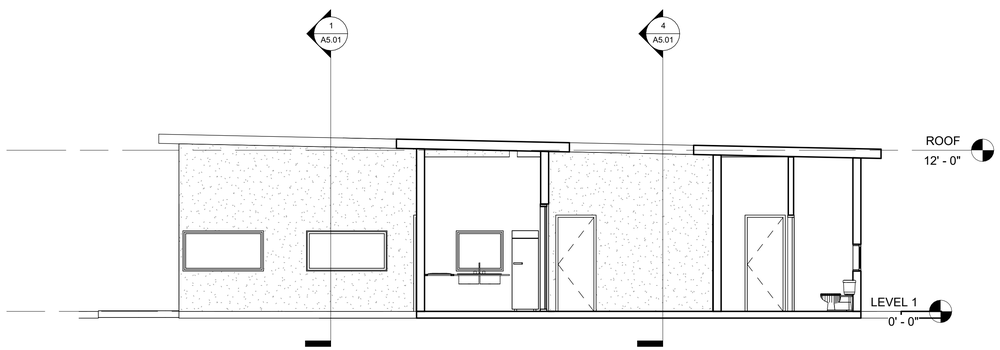
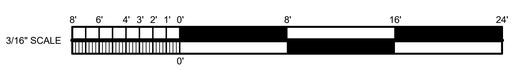


3 Section 3
Scale: 3/16" = 1'-0"

4 Section 4
Scale: 3/16" = 1'-0"



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LOT B ADU/JADU
LANDS OF: 2445 OLD CALAVERAS ROAD, MILPITAS, CA

SHEET NAME:

SECTIONS

DRAWN BY:	HM
CHECKED BY:	HM
DATE:	04/09/2024
SCALE:	3/16" = 1'-0"

A5.01

SEPTIC SYSTEM CONSTRUCTION NOTES

A. PROJECT REQUIREMENTS

1. SYSTEM TO SERVE 13 EMPLOYEES/CUSTOMERS/VOLUNTEERS, A FUTURE 6 BEDROOM HOUSE, A FUTURE 3 BEDROOM ACCESSORY DWELLING UNIT (ADU), A FUTURE 2 BEDROOM JUNIOR ADU, AND A 3 BEDROOM SMALL SCALE PERMANENT AGRICULTURAL HOUSING. INSTALLATION OF SYSTEM TO CONFORM TO SANTA CLARA COUNTY SEWAGE DISPOSAL ORDINANCE. CALL SANTA CLARA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH 24 HOURS MIN. PRIOR TO START OF WORK AT (408)–918–3400.
2. SEWAGE DISPOSAL SYSTEM CONSISTS OF A 5,000 GALLON SEPTIC TANK WITH 5,000 GALLON PUMP TANK, WATERTIGHT ACCESS RISERS TO GRADE; A BULL–RUN DIVERSION VALVE; AND TWO 486 LF X 486 LF DISPERSAL FIELD OF 24" WIDE BY 12" DEEP DRAINROCK BED WITH INSPECTION RISERS TO GRADE. THE DISPERSAL FIELDS SHALL BE INTERCONNECTED WITH A DIVERSION VALVE. THE VALVE MUST BE CAPABLE OF DIRECTING THE SEPTIC TANK EFFLUENT TO ONE DISPERSAL FIELD AT A TIME.
3. GROUND SLOPE OF DISPERSAL FIELD #1 & DISPERSAL FIELD #2 IS APPROXIMATELY 24.5%. DISPERSAL FIELDS SHALL BE INSTALLED LEVEL AND ON CONTOURS AS SHOWN ON PLAN. EXCESS SOIL FROM LEACHFIELD CONSTRUCTION SHALL BE SPREAD ON SITE AT A DEPTH OF 3" MAX OR BE REMOVED OFF–SITE.
4. THE DIVERSION VALVE SHALL BE OPERATED ANNUALLY TO ROTATE THE USE OF DISPERSAL FIELDS TO EXTEND THE LIFE OF THE SEPTIC SYSTEM.
5. MARK CAPS OF ALL BULL RUN VALVES (DV) AND RISERS (R) WITH A PERMANENT MARKER OR LABEL.
6. SWIMMING POOLS OR SPAS MUST NOT BE DRAINED OR BACKWASHED INTO THE SEPTIC SYSTEM.
7. AVOID PLANTING TREES IN DISPERSAL FIELD OR CLOSE TO SEPTIC TANK.
8. GARBAGE DISPOSAL IS NOT RECOMMENDED. IF THEY ARE INSTALLED, THEY SHOULD BE USED SPARINGLY OR NOT AT ALL.
9. THE SOLIDS THAT ACCUMULATE IN THE SEPTIC TANK SHOULD BE REMOVED BY PUMPING EVERY 3–5 YEARS TO PREVENT SOLIDS FROM ENTERING AND CLOGGING THE DISPERSAL FIELD.
10. ALL WORK TO BE PERFORMED BY AN APPROPRIATELY LICENSED CONTRACTOR.
11. PRIOR TO STARTING CONSTRUCTION, CONTRACTOR SHALL CONTACT USA AT 1–800–227–2600 TO LOCATE ALL UNDERGROUND UTILITIES.

ACROSS ALL THE ACTIVITIES CURRENTLY PLANNED ON THE LAND –REARING LIVESTOCK, PRODUCTION AND SALE OF COMPOST, BALES OF ORCHARD GRASS AND CSA BOXES AND RESIDENCES, THE TOTAL NUMBER OF PEOPLE INCLUDING RESIDENTS, EMPLOYEES AND VISITORS WILL NOT EXCEED MORE THAN 25 PEOPLE IN A 60 DAY PERIOD ANNUALLY. PLEASE SEE THE TABLE BELOW FOR A SUMMARY.

OUR APPLICATION AND OWTS DESIGN INCLUDES A 3 BEDROOM SMALL SCALE PERMANENT AGRICULTURAL HOUSING WHOSE RESIDENTS ARE ALSO SHOWN IN THE TABLE BELOW AS RESIDENT EMPLOYEES. THE LIVESTOCK SHELTER AND AGRICULTURAL SHED BOTH INCLUDE A UNISEX BATHROOM THAT WILL CATER TO THE DEMAND MENTIONED BELOW. FOR OUR CSA PROGRAM, ABOUT 2/3RD'S OF THE 90 FAMILIES ARE OUR REGULAR CONGREGATION WHO WILL PICK IT UP FROM OUR TEMPLE WHICH IS ABOUT 1.5 MILES AWAY LOCATED AT 680 E. CALAVERAS BLVD, MILPITAS, CA. CUSTOMER/VOLUNTEER VISITS TO 2425 OLD CALAVERAS RD SITE FOR ALL OUR OPERATIONS WILL BE BY APPOINTMENT ONLY AND WE WILL BE USING THIS APPOINTMENT SYSTEM TO ENSURE THAT THE DAILY LIMITS PROPOSED BELOW ARE ADHERED TO.

OUR OWTS DESIGN ANTICIPATES A FUTURE PRIMARY RESIDENCE WITH 6 BEDROOMS, A FUTURE ADU WITH 3 BEDROOMS, A JADU WITH TWO BEDROOMS, THUS WE HAVE TWO TABLES FOR PROPOSED CURRENT USE AND ONE FOR FUTURE USE WHERE WE HAVE ADDED A COLUMN TO SHOW FUTURE RESIDENTS FOR THESE UNITS.

PROPOSED *PHASE 2 OCCUPANCY:*

Day	Time	Resident Employees of Agricultural Housing	Other Employees	Volunteers /Customers	Total People
Monday to Friday	5am to 1pm	3	2	8	13
	4pm to 9pm	3	2	8	13
Saturday	5am to 1pm	3	2	8	13
	2pm to 9pm	3	2	8	13
Sunday	5am to 1pm	3	2	8	13
	2pm to 9pm	3	2	8	13

FUTURE USE/OCCUPANCY:

Day	Time	Future Residents Primary/ ADU/JADU	Resident Employees Agricultural Housing	Other Employees	Volunteers /Customers	Total People
Monday to Friday	5am to 1pm	11	3	2	8	24
	4pm to 9pm	11	3	2	8	24
Saturday	5am to 1pm	11	3	2	8	24
	2pm to 9pm	11	3	2	8	24
Sunday	5am to 1pm	11	3	2	8	24
	2pm to 9pm	11	3	2	8	24

B. SEPTIC TANK REQUIREMENTS

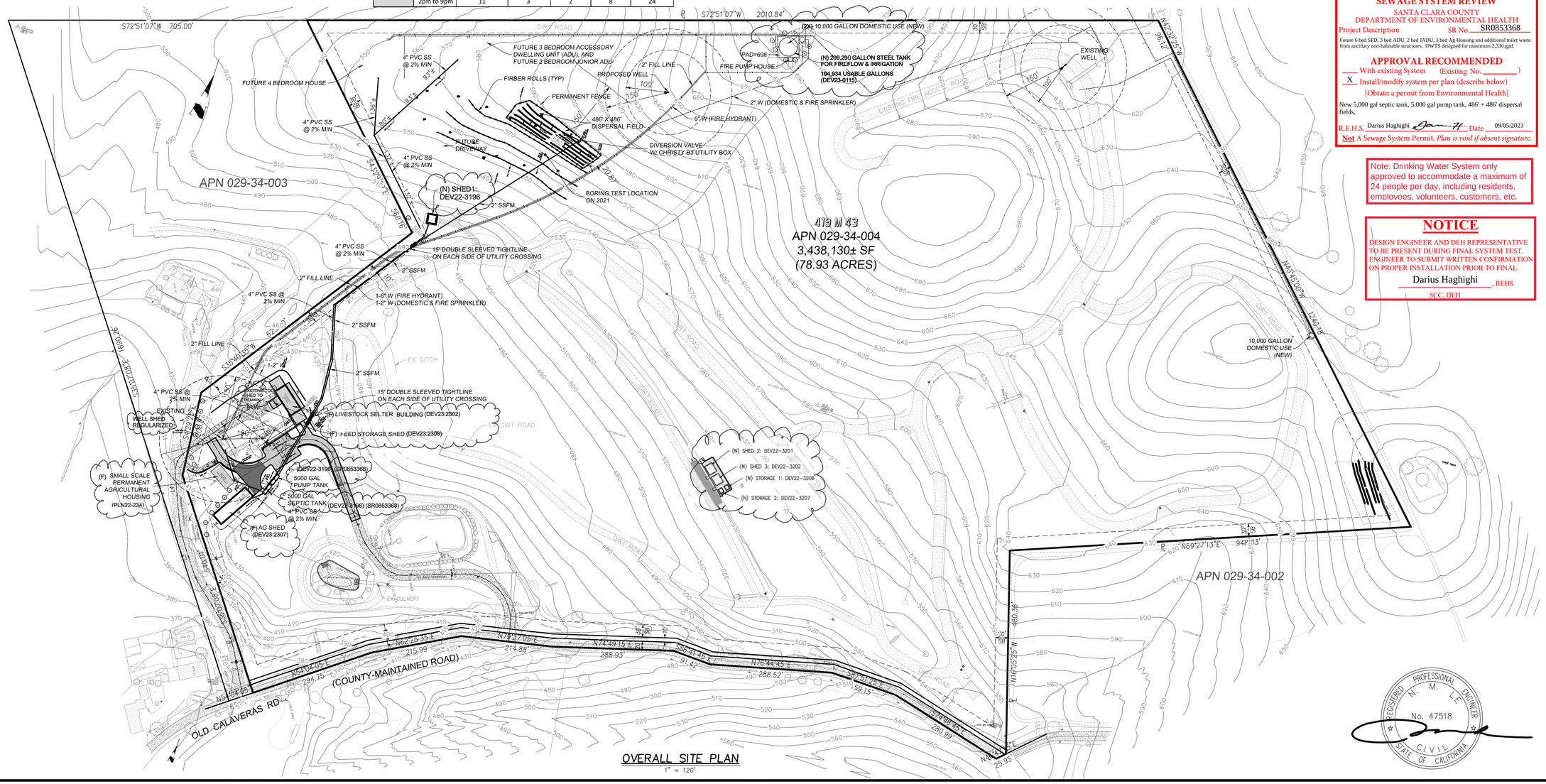
1. MINIMUM CAPACITY. SEPTIC TANKS MUST HAVE A MINIMUM CAPACITY OF FIVE THOUSAND (5,000) GALLONS OR TWICE THE PEAK DAILY WASTEWATER FLOW FOR THE FACILITY SERVED, WHICHEVER IS GREATER. MINIMUM SEPTIC TANK CAPACITY FOR ASSISTED CARE FACILITIES SHALL BE EQUAL TO THREE TIMES THE PEAK DAILY WASTEWATER FLOW.
2. TWO COMPARTMENTS. SEPTIC TANKS MUST BE OF TWO–COMPARTMENT CONSTRUCTION, WITH THE FIRST COMPARTMENT EQUAL TO TWO–THIRDS THE TOTAL TANK VOLUME. THE COMPARTMENTS MUST BE SEPARATED BY A BAFFLE OR EQUIVALENT ARRANGEMENT.
3. MATERIALS. SEPTIC TANKS MUST BE WATERTIGHT, PROPERLY VENTED AND CONSTRUCTED OF REINFORCED CONCRETE, HEAVYWEIGHT REINFORCED CONCRETE BLOCKS, FIBERGLASS OR OTHER DURABLE, NON–CORRODIBLE MATERIALS AS APPROVED BY THE DIRECTOR. SEPTIC TANKS SHALL BE DESIGNED TO WITHSTAND ANY ANTICIPATED WEIGHT PLACED ABOVE IT. ALL SEPTIC TANKS SHALL BE LISTED AND APPROVED BY IAPMO OR AN ANSI ACCREDITED TESTING ORGANIZATION: EXCEPTION TO THIS REQUIREMENT MAY BE GRANTED WHERE STRUCTURAL DESIGN CALCULATIONS FOR THE SEPTIC TANK ARE PROVIDED BY A CALIFORNIA REGISTERED CIVIL ENGINEER.
4. ACCESS OPENINGS. ACCESS TO EACH SEPTIC TANK COMPARTMENT MUST BE PROVIDED BY A MANHOLE OPENING AT LEAST TWENTY INCHES IN DIAMETER.
5. ACCESS RISERS. A RISER MUST EXTEND FROM EACH MANHOLE OPENING TO OR ABOVE THE SURFACE OF THE GROUND. THE RISER MUST BE OF A SIZE LARGER THAN THE MANHOLE OPENING, BE BOTH GAS– AND WATER–TIGHT, BE CONSTRUCTED OF DURABLE MATERIAL AND EQUIPPED WITH A SECURE COVER.
6. EFFLUENT FILTER. THE OUTLET OF THE SEPTIC TANK SHALL BE FITTED WITH AN EFFLUENT FILTER CAPABLE OF SCREENING SOLIDS IN EXCESS THREE–SIXTEENTHS (3/16) OF AN INCH IN DIAMETER AND CONFORMING TO NSF/ANSI STANDARD 46 OR AS OTHERWISE APPROVED BY THE DIRECTOR.
7. TANK CONNECTIONS. ALL CONNECTIONS FROM BUILDING TO SEPTIC TANK MUST CONFORM TO CONSTRUCTION STANDARDS AS REQUIRED BY THE COUNTY BUILDING OFFICIAL.
8. WATER–TIGHTNESS TESTING. ALL NEW SEPTIC TANK INSTALLATIONS AND MODIFICATIONS TO EXISTING SEPTIC TANKS SHALL UNDERGO WATER–TIGHTNESS TESTING AS FOLLOWS:
   A) NEW TANKS. FOR NEW TANK INSTALLATIONS, THE TESTING SHALL BE DONE WITH THE RISERS IN PLACE AND THE INLET AND OUTLET PIPES PLUGGED. THE TANK SHALL BE FILLED WITH WATER TO A LEVEL EXTENDING A MINIMUM OF TWO (2) INCHES INTO THE RISERS, AND MONITORED FOR A 1– HOUR PERIOD, WITH NO MEASURABLE DROP IN THE WATER LEVEL.
   B) EXISTING TANKS. FOR EXISTING TANKS, THE TANK SHALL BE FILLED WITH WATER TO A LEVEL EVEN WITH THE INVERT OF THE OUTLET PIPE, AND MONITORED FOR A 1–HOUR PERIOD, WITH NO MEASURABLE DROP IN WATER LEVEL. HOWEVER, IN CASES WHERE THERE THE GROUNDWATER LEVEL IS KNOWN OR ESTIMATED TO RISE ABOVE THE LEVEL OF THE OUTLET PIPE DURING ANY TIME OF THE YEAR, THE WATER–TIGHTNESS TEST SHALL BE CONDUCTED FOLLOWING THE PROCEDURE FOR NEW TANK INSTALLATIONS; I.E., BY FILLING THE TANK WITH WATER INTO THE RISERS.

C. PIPE REQUIREMENTS

1. SOLID PIPE, JOINTS AND CONNECTIONS. SOLID (NON–PERFORATED) PIPE FOR OWTS MUST CONFORM TO THE STANDARDS OF THE MOST RECENT EDITION OF THE UNIFORM PLUMBING CODE, WHICH IS ADOPTED BY REFERENCE INTO THE COUNTY'S BUILDING ORDINANCES. PIPE DIAMETER MUST BE FOUR INCHES. ALL SOLID PIPE JOINTS AND CONNECTIONS MUST BE GLUED, CEMENTED OR MADE WITH AN ELASTOMERIC SEAL SO AS TO BE WATERTIGHT.
2. TIGHTLINES UNDER RESIDENTIAL DRIVEWAY. TIGHTLINES IN RESIDENTIAL TRAFFIC AREAS MUST BE INSTALLED WITH SCHEDULE 40 PVC. AN ALTERNATIVE IS TO SLEEVE (I.E., DOUBLE PIPE) THE THIN WALL TIGHTLINE PIPE WITHIN AN OUTER PIPE CONSISTING OF SCHEDULE 40 PVC, ABS OR SUITABLE ALTERNATIVE AND RATED BY THE UNIFORM PLUMBING CODE.
3. DISTRIBUTION PIPE. PERFORATED PIPE FOR CONVENTIONAL OWTS DISPERSAL SYSTEMS MUST CONFORM TO THE MOST RECENT EDITION OF THE UNIFORM PLUMBING CODE, WHICH IS ADOPTED BY REFERENCE INTO THE COUNTY'S BUILDING ORDINANCES. THE PIPE DIAMETER MUST BE FOUR INCHES.

D. DISPERSAL SYSTEM REQUIREMENTS

1. TRENCH CONSTRUCTION.
   A) TRENCHES MUST BE PLACED IN UNDISTURBED EARTH, IN AN ACCESSIBLE AREA, AND SHALL NOT BE COVERED BY PAVING OR OTHER IMPERMEABLE OR COMPACTED SURFACE. NATURAL TOPOGRAPHY SHALL NOT BE GRADED TO MODIFY SLOPE.
   B) THE BOTTOM OF A TRENCH MUST BE LEVEL. WITH A VARIATION OF NO MORE THAN 2 INCHES PER 100 LINEAL FEET OF TRENCH; TRENCHES SHALL BE ALIGNED PARALLEL TO THE GROUND SURFACE CONTOURS TO THE GREATEST EXTENT PRACTICABLE.
   C) ADJACENT TRENCHES ON SLOPES MUST BE CONNECTED WITH A WATERTIGHT OVERFLOW LINE ("RELIEF LINE") IN A MANNER THAT ALLOWS EACH TRENCH TO BE FILLED WITH SEWAGE EFFLUENT TO THE DEPTH OF THE ROCK BEFORE THE SEWAGE FLOWS TO THE NEXT LOWER TRENCH. ALTERNATIVELY, A DISTRIBUTION BOX (D–BOX) MAY BE USED TO EQUALLY DIVIDE THE FLOW AMONGST THE TRENCHES, PROVIDED THE PROPOSED D–BOX IS OF A DESIGN APPROVED AND LISTED BY THE DEH PER PART 3.1.E (MATERIALS AND EQUIPMENT) OF THIS MANUAL. FOR SYSTEMS LOCATED ON SITES HAVING SLOPES OF LESS THAN 5%, A "GRID" DESIGN MAY BE USED IN ACCORDANCE WITH GUIDELINES PROVIDED UNDER AT THE END OF THIS SECTION (E.3.F).
   D) TRENCHES MUST NOT BE EXCAVATED WHEN THE SOIL IS SO WET THAT SMEARING OR COMPACTION OCCURS.
   E) IN CLAY SOILS WHEN GLAZING OCCURS, THE TRENCH SURFACES MUST BE SCARIFIED TO THE DEPTH OF THE GLAZING AND THE LOOSE MATERIAL REMOVED.
   F) ROCK MATERIAL IN THE TRENCH MUST BE WASHED AND FREE OF FINES, AND MUST BE COVERED WITH AN APPROVED FILTER FABRIC SILT BARRIER (GEOTEXTILE) PRIOR TO BACKFILLING WITH NATURAL EARTH.
   G) A CAPPED INSPECTION RISER SHALL BE INSTALLED WITHIN EACH TRENCH TO PROVIDE A MEANS OF OBSERVING THE EFFLUENT LEVEL IN THE TRENCH.
   H) EROSION CONTROL MEASURES SHALL BE IMPLEMENTED FOLLOWING INSTALLATION PER REQUIREMENTS OF SECTION B11–83(C) FOR ANY CONVENTIONAL DISPERSAL SYSTEM WHERE: (1) GROUND SLOPE EXCEEDS 20%; (2) ABOVE–GRADE COVER FILL IS ADDED; (3) DESIGN FLOW EXCEEDS 1,000 GPD; OR (4) A GRADING AND/OR DRAINAGE PERMIT IS REQUIRED FOR PROJECT SITE DEVELOPMENT PER DIVISION C12, CHAPTER III OF THE COUNTY CODE. THE PLAN SUBMITTAL FOR THE OWTS SHALL INCLUDE AN EROSION CONTROL PLAN IN ACCORDANCE WITH REQUIREMENTS OF ORDINANCE SECTION B11–83(C).



OVERALL SITE PLAN
1" = 120'

SEWAGE SYSTEM REVIEW
SANTA CLARA COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH
Project Description SR No. SR0853368
Future 6 bed SFD, 3 bed ADU, 2 bed JADU, 3 bed Ag Housing and additional toilet waste from ancillary non-habitable structures. OWTS designed for maximum 2,330 gpd.

APPROVAL RECOMMENDED
___ With existing System (Existing No. _____)
X Install/modify system per plan (describe below)
[Obtain a permit from Environmental Health]
New 5,000 gal septic tank, 5,000 gal pump tank, 486' + 486' dispersal fields.
R.E.H.S. Darius Haghighi Date 09/05/2023
Not A Sewage System Permit. *Plan is void if absent signature.*

Note: Drinking Water System only approved to accommodate a maximum of 24 people per day, including residents, employees, volunteers, customers, etc.

NOTICE
DESIGN ENGINEER AND DEH REPRESENTATIVE TO BE PRESENT DURING FINAL SYSTEM TEST. ENGINEER TO SUBMIT WRITTEN CONFIRMATION ON PROPER INSTALLATION PRIOR TO FINAL.
Darius Haghighi, REHS
SCC, DEH

REGISTERED PROFESSIONAL ENGINEER N. M. L.E. No. 47518 CIVIL STATE OF CALIFORNIA

NO.	REVISIONS	APP'D	DATE	BY

CT	12/09/22	DESIGNED
CT	12/09/22	DRAWN
AS NOTED		SCALE
NL	12/09/22	CHECKED

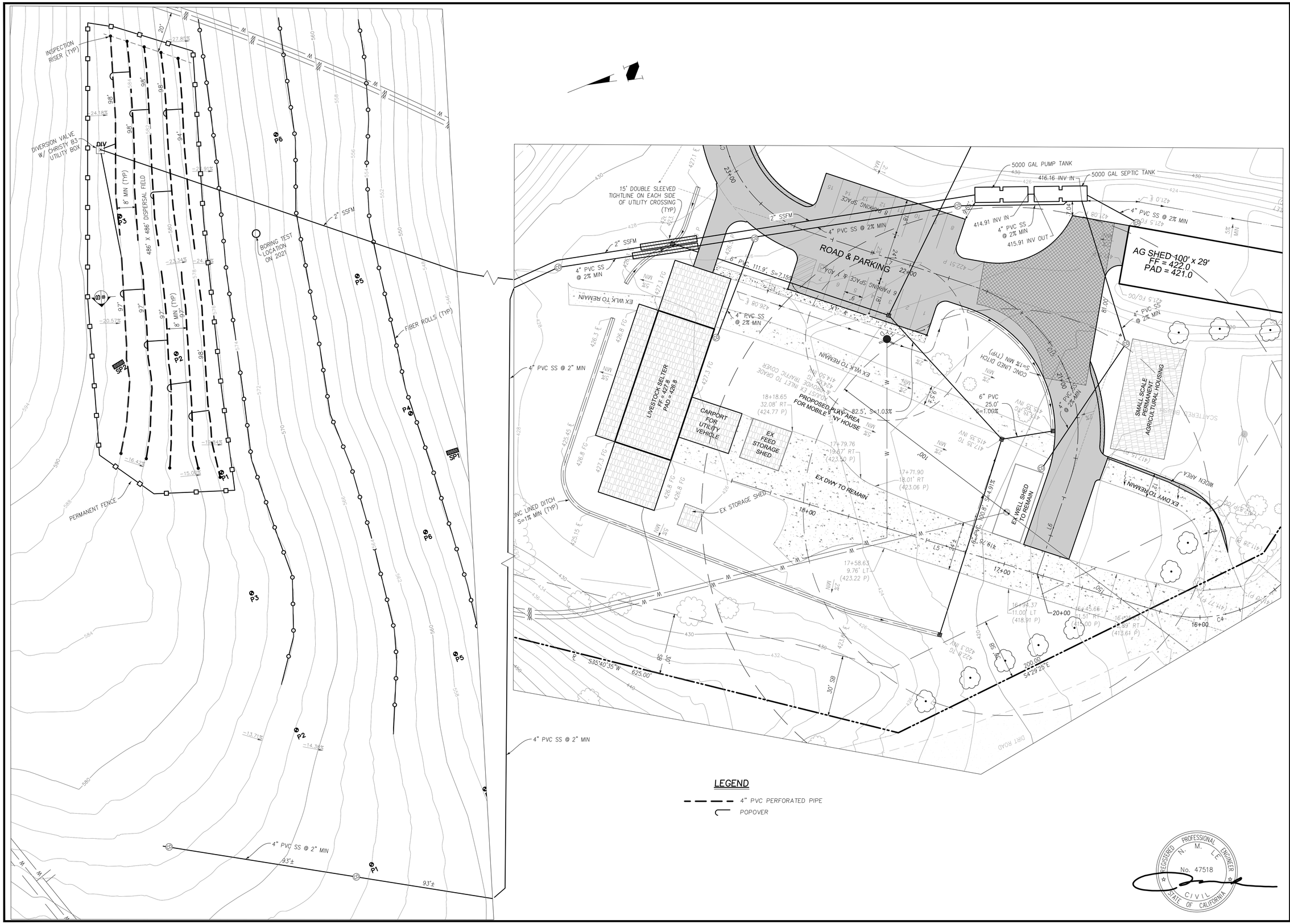
LE ENGINEERING
598 E Santa Clara St, #270
San Jose, CA 95112
Phone: (408) 806-7187

SEPTIC SYSTEM PLAN
LANDS OF GOKULAM LLC
2425 OLD CALAVERAS ROAD
APN 029-34-004

Milpitas California

DRAWING NO. SS1
SHT NO. 1 OF 3
PROJECT NO. CONTRACT NO. FILE NO.

APPLICANT : . ROAD NAME : OLD CALAVERAS ROAD FILE NO : .



NO.	REVISIONS	DATE	APP'D	BY

CT	12/09/22
DESIGNED	DATE
CT	12/09/22
DRAWN	DATE
1" = 20'	
SCALE	
NL	12/09/22
CHECKED	DATE

ENGINEERING
598 E Santa Clara St, #270
San Jose, CA 95112
Phone: (408) 806-7187

SEPTIC SYSTEM PLAN
LANDS OF GOKULAM LLC
2425 OLD CALAVERAS ROAD
APN 029-34-004

Milpitas California

PROJECT NO.
CONTRACT NO.

REGISTERED PROFESSIONAL ENGINEER N. M. L. No. 47518 CIVIL STATE OF CALIFORNIA

DRAWING NO. SS2
SHT NO. 2 OF 3
FILE NO.

APPLICANT : .
ROAD NAME : OLD CALAVERAS ROAD
FILE NO : .

County of Santa Clara– Department of Environmental Health
SOIL PERCOLATION TEST RECORDED MEASUREMENTS

APN 029-34-004

OWNER/APPLICANT: GOKULAM LLC	SR #: 453368	PLN FILE #:	
LOCATION: 2425 Old Calaveras Rd	REHS: PETER ESTES		
CONTACT PERSON: NINH LE (408) 806-7187	PHONE: 408 806-7187	DATE: 3/6/20	

(West S. hillside pasture) (Site 5)

HOLE #1	DEPTH 5'							HOLE #2	DEPTH 5'						
TIME		WATER LEVEL						TIME		WATER LEVEL					
START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI		START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI	
8:13	8:43	24.75	24.33	30	0.75	0.25		9:36	9:46	14.5		10	Bottom		
9:40	10:14	24.25	24.5	30	0.75	0.25		9:46	10:16	14.5		30	Bottom		
10:15	10:45	24.33	24.65	30	0.75	0.25		10:17	10:27	14.5	14.5	10	0	0	0.33
10:46	11:16	24.33	24.65	30	0.75	0.25		10:44	10:54	14.5	14.65	10	0.15	1.5	1.05
								11:02	11:12	14.5	14.65	10	0.15	1.5	1.05
								11:11	11:21	14.5	14.65	10	0.15	1.5	1.05
								11:21	11:31	14.5	14.65	10	0.15	1.5	1.05
								11:33	11:43	14.5	14.65	10	0.15	1.5	1.05
											AV = 1.28 mpi				

AV = 6.32 mpi

HOLE #3	DEPTH 5'							HOLE #4	DEPTH 5'						
TIME		WATER LEVEL						TIME		WATER LEVEL					
START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI		START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI	
9:21	9:51	10.5			Bottom			9:24	9:54	42			Bottom		
9:53	10:23	10.5			Bottom			9:55	10:25	42			Bottom		
10:24	10:34	10.5	10.5	10	0.75	0.07		10:25	10:35	42	39	10	3	3.33	
10:51	11:01	10.5	10.375	10	0.625	0.06		10:50	11:00	42	37.625	10	5.375	0.96	
11:52	11:12	10.5	10.375	10	0.625	0.06		11:05	11:15	42	39	10	3	3.33	
11:13	11:23	10.5	10.5	10	0.625	0.06		11:18	11:28	42	39.25	10	2.75	3.63	
11:24	11:34	10.5	10.375	10	0.625	0.06		11:29	11:39	42.25	39.5	10	2.75	3.63	
11:35	11:45	10.5	10.375	10	0.625	0.06		11:50	12:00	42	39.25	10	2.75	3.63	
											AV = 3.63 mpi				

AV = 2.76 mpi

HOLE #5	DEPTH 5'							HOLE #6	DEPTH 5'						
TIME		WATER LEVEL						TIME		WATER LEVEL					
START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI		START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI	
9:29	9:59	104			Bottom			9:31	10:01	103.75			Bottom		
10:00	10:30	104			Bottom			10:01	10:31	103.75			Bottom		
10:30	10:40	104	103.875	10	2.125	0.70		10:33	10:43	103.75	102.5	10	5	2.5	
10:51	11:01	104	103.875	10	2.25	0.68		11:33	11:03	103.75	100.625	10	3.125	3.2	
11:02	11:12	104	102	10	2	5		11:04	11:14	103.75	102.75	10	3	3.33	
11:13	11:23	104	102	10	2	5		11:15	11:25	103.75	102.75	10	3	3.33	
11:23	11:33	104	102	10	2	5		11:26	11:36	103.75	102.75	10	3	3.33	
11:34	11:44	104	102	10	2	5		11:37	11:47	103.75	102.75	10	3	3.33	
											AV = 3.33 mpi				

AV = 5 mpi

HOLE	1	2	3	4	5	6
Stabilized MPI R	6.32	3.48	2.76	3.63	5	3.33
Adjusted Stabilized MPI R_1=R x 1.4	8.85	4.87	3.86	5.08	7.0	4.66
Average Adjusted Stabilized MPI R_2=(Σ R_1)/ # Holes						
# Bedrooms: FOR OFFICE USE ONLY	Tank Size (Gal)		Leach line (Ft)			

MPI.doc (Rev.3/14)

County of Santa Clara– Department of Environmental Health
SOIL PERCOLATION TEST RECORDED MEASUREMENTS

APN 029-34-004

OWNER/APPLICANT: GOKULAM LLC	SR #: 453368	PLN FILE #:	
LOCATION: 2425 Old Calaveras Rd	REHS: PETER ESTES		
CONTACT PERSON: NINH LE	PHONE: 408 806-7187	DATE: 3/6/20	

(East S. hillside pasture) (Site 6)

HOLE #1	DEPTH 5'							HOLE #2	DEPTH 5'						
TIME		WATER LEVEL						TIME		WATER LEVEL					
START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI		START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI	
12:54	1:24	92			Bottom			12:54	1:24	30.5		30	Bottom		
1:27	1:57	92		30	Bottom			1:27	1:57	30.5		30	Bottom		
1:58	2:08	92	86	10	6	1.67		2:00	2:10	30.5		10	Bottom		
2:09	2:39	92	86.375	10	5.625	1.78		2:30	2:35	30.5	26.375	5	4.125	1.03	
2:38	2:48	92	86.375	10	5.625	1.85		2:35	2:40	30.5	26.5	5	4	1.25	
2:50	3:00	92	86.75	10	5.25	1.90		2:41	2:46	30.5	26.5	5	4	1.25	
3:01	3:11	92	86.75	10	5.25	1.90		2:52	2:57	30.5	26.75	5	3.75	1.33	
3:12	3:22	92	86.875	10	5.125	1.85		2:53	2:58	30.5		5			
											AV = 1.28 mpi				

AV = 1.92 mpi

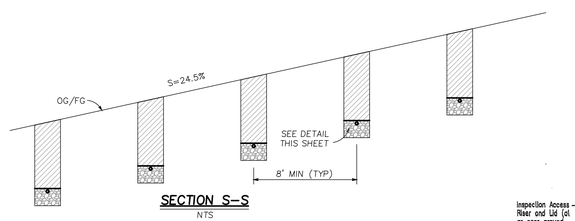
HOLE #3	DEPTH 5'							HOLE #4	DEPTH 5'						
TIME		WATER LEVEL						TIME		WATER LEVEL					
START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI		START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI	
1:02	1:32	29.5		30	Bottom			1:06	1:36	30.25	24.875	30	5.375	5.58	
1:34	2:04	29.5		30	Bottom			1:37	2:07	30.25	26.375	30	4.375	6.86	
2:06	2:16	29.5		10	Bottom			2:10	2:40	30.25	26.625	30	4.125	7.27	
2:37	2:47	29.5		10	Bottom			2:41	3:11	30.25	26.875	30	3.875	7.74	
2:49	3:03	29.5	26	5	3.5	1.43		3:15	3:45	30.25	26.875	30	3.875	7.74	
3:04	3:08	29.5	26	5	3.5	1.43									
3:10	3:15	29.5	25.25	5	4.75	1.6									
3:18	3:23	29.5	25.875	5	3.625	1.38									
3:25	3:30	29.5	26	5	3.5	1.43					AV = 7.74 mpi				
3:32	3:37	29.5	26.5	5	3	1.67									
3:39	3:44	29.5	26.5	5	3	1.67									
3:46	3:50	29.5	26.5	5	3	1.67									
					AV = 1.67 mpi										

HOLE #5	DEPTH 5'							HOLE #6	DEPTH 5'						
TIME		WATER LEVEL						TIME		WATER LEVEL					
START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI		START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI	
1:09	1:39	91.5		30	Bottom			1:11	1:41	91		30	Bottom		
1:40	2:10	91.5		30	Bottom			1:42	2:12	91		30	Bottom		
2:12	2:22	91.5		10	Bottom			2:13	2:23	91	88.5	10	2.5	4	
2:24	2:29	91.5	85.5	5	6	0.83		2:24	2:29	91	87.75	5	1.75	2.86	
2:34	2:39	91.5	87	5	4.5	1.11		2:00	4:05	91	89.375	5	1.625	3.07	
4:04	4:09	91.5	87.13	5	4.35	1.17		4:06	4:11	91	89.5	5	1.5	3.33	
4:10	4:15	91.5	87.25	5	4.25	1.17									
											AV = 3.09 mpi				
					AV = 1.15 mpi										

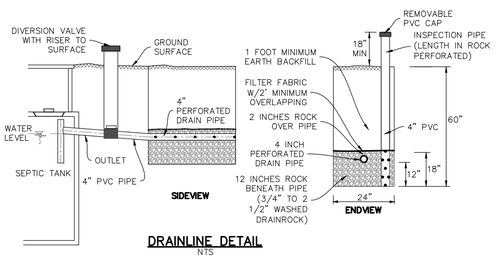
HOLE	1	2	3	4	5	6
Stabilized MPI R	1.92	1.28	1.67	7.74	1.13	3.09
Adjusted Stabilized MPI R_1=R x 1.4	2.69	1.79	2.34	10.84	1.61	4.33
Average Adjusted Stabilized MPI R_2=(Σ R_1)/ # Holes						
# Bedrooms: FOR OFFICE USE ONLY	Tank Size (Gal)		Leach line (Ft)			

MPI.doc (Rev.3/14)

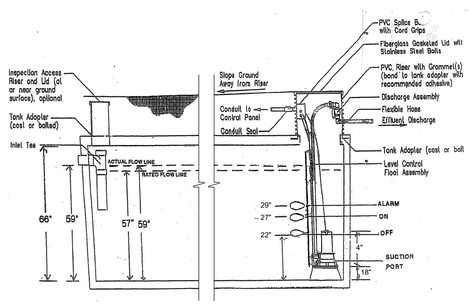
AVERAGE ADJUSTED STABILIZED MPI = 4.83 MPI

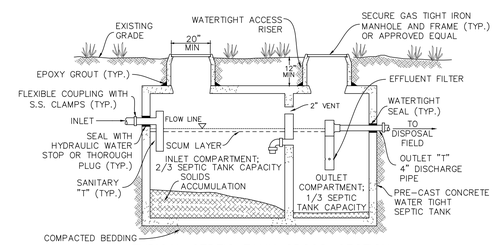


SECTION S–S
NTS



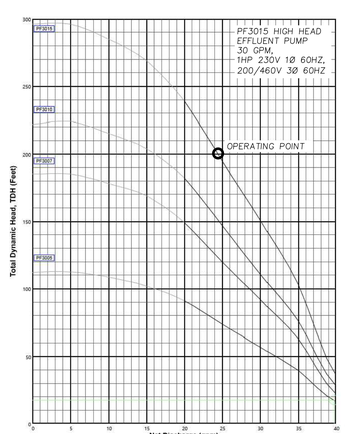
DRAINLINE DETAIL
NTS





TYPICAL SEPTIC TANK CROSS–SECTION
5000 GALLON SEPTIC TANK – DON CHAPIN MODEL IPS5000 OR EQUAL
NTS

CONCRETE TANKS MUST BE USED WHERE POSSIBLE. ALTERNATIVE MATERIALS ARE APPROVED ON A SITE SPECIFIC BASIS. THE DEPARTMENT OF ENVIRONMENTAL HEALTH MAINTAINS A LIST OF APPROVED SEPTIC TANKS.



PUMP CURVE

Orenco

SOIL PROFILE RESULTS
CONVENTIONAL SYSTEMS

SR #: 453368 DATE OF INSPECTION: 2/13/2020
APN #: 029-34-004 OWNER:
APPLICANT: Gokulam
SITE ADDRESS: 2425 Old Calaveras Rd Milpitas
CONDUCTED BY: Michele / Mark Hawkins CHECKED BY: Peter Estes

HOLE #: 5P1

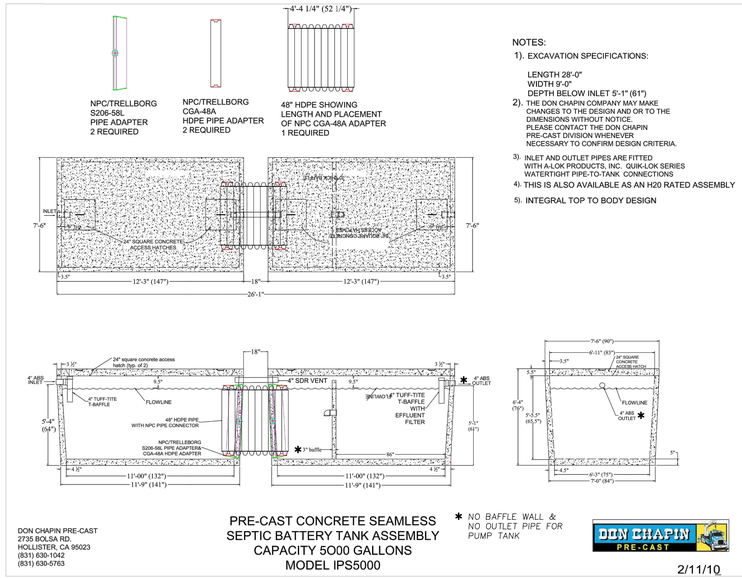
1 ft	Black clay loam, dry, no rocks
2 ft	
3 ft	
4 ft	light brown sandy, gravel small rocks, dry
5 ft	
6 ft	
7 ft	
8 ft	
9 ft	
10 ft	
11 ft	
12 ft	
13 ft	end of dig - refusal No groundwater observed
14 ft	
15 ft	
16 ft	
17 ft	
18 ft	
19 ft	
20 ft	

HOLE #: 5P2

1 ft	same
2 ft	
3 ft	
4 ft	rocks
5 ft	
6 ft	
7 ft	
8 ft	
9 ft	
10 ft	
11 ft	
12 ft	
13 ft	end of dig No groundwater observed
14 ft	
15 ft	
16 ft	
17 ft	
18 ft	
19 ft	
20 ft	

COMMENTS:

Rev. 3/3/14



NOTES:
1). EXCAVATION SPECIFICATIONS:
LENGTH 28'-0"
WIDTH 9'-0"
DEPTH BELOW INLET 5'-1" (61")
2). THE DON CHAPIN COMPANY MAY MAKE CHANGES TO THE DESIGN AND OR TO THE DIMENSIONS WITHOUT NOTICE. PLEASE CONTACT THE DON CHAPIN PRE-CAST DIVISION WHENEVER NECESSARY TO CONFIRM DESIGN CRITERIA.
3). INLET AND OUTLET PIPES ARE FITTED WITH A-LOK PRODUCTS, INC. QUIK-LOK SERIES WATERTIGHT PIPE-TO-TANK CONNECTIONS.
4). THIS IS ALSO AVAILABLE AS AN H20 RATED ASSEMBLY
5). INTEGRAL TOP TO BODY DESIGN

DON CHAPIN PRE-CAST
2735 BOLSA RD.
HOLLISTER, CA 95023
(831) 636-1042
(831) 636-5763

PRE-CAST CONCRETE SEAMLESS SEPTIC BATTERY TANK ASSEMBLY
CAPACITY 5000 GALLONS
MODEL IPS5000

* NO BAFFLE WALL & NO OUTLET PIPE FOR PUMP TANK

DON CHAPIN PRE-CAST
2/11/10

5000 GALLON SEPTIC TANK – DON CHAPIN MODEL IPS5000 OR EQUAL
NTS

PUMP SYSTEM WORKSHEET

Applicant NINH LE / LC ENGINEERING Date 10/18/22
Owner File No.
Site Address 2425 OLD CALAVERAS ROAD City Milpitas APN 029-34-004

Elevation of high drain field (ft) 587.77
Elevation of pump off (ft) 411.82
Total lift (Ft Head) 175.95 (A)

TIGHT LINE
Diameter of tight line (inches) 2"
Length of tight line from pump to upper drain field (ft) 1129' (B)

FITTINGS

No. of Fittings		Pipe Length Equivalent (ft) See Chart		Total Pipe Equivalent (ft)
2 90 Degrees Standard Elbow	X	6	=	12
45 Degrees Standard Elbow	X		=	
90 Long Radius Elbow	X		=	
1 gate valve (fully open)	X	2	=	2
1 check valve (conventional swing)	X	1.5	=	1.5
		TOTAL	=	15.5' (C)

Total Length of Pipe = B + C = 1144.50 (D)

CALCULATIONS:
Friction Loss in Pipes:
(B/100 ft) x 1.62 (friction loss per chart) = 18.29 (E) Head in Feet

Required Pump Size:
175.95' (A) + 18.29' (E) = 194.24' (F) Total Pumping Head in Feet

Pump Size:
(F) versus GPM=Pump Size (refer to pump curve)

Pump Model: (Attach Pump Curve)
24.40 GPM at 200.00 (ft of head: from pump curve) Manufacturer/Model ORENCO/PF3015

Required Capactity in Gallons
Dosing Volume 475.77
Storage Capacity ($1\frac{1}{2}$ days) 3825
Pump Displacement 5
Volume from tank bottom to pump base/off level 1979.41
Total tank capacity 6394.57
Pump Tank Information
Manufacturer Don Chapin Pre-cast Model: IPS5000 Size 98.37 Gallon per inch

TABLE 3–4. CONVENTIONAL OWTS DISPERSAL TRENCH DESIGN

PARAMETER	REQUIREMENT
Trench length	Determined based on design flow and percolation rate; see below Recommended maximum of 100' per trench
Trench width	18 inches minimum; 36 inches maximum
Trench Depth	2.5 feet minimum; 8 feet maximum
Minimum cover over rock, in inches*	12 inches
Depth of rock under pipe (minimum)*	12 inches
Depth of rock over pipe (minimum)*	2 inches
Size of rock *	¾ to 2½ inches
Spacing of trenches, center to center, in feet, minimum	2 times the depth of rock below pipe; 6 feet minimum, plus 1–foot additional spacing for every 5% increase in dispersal area ground slope above 20%

*TABLE 1. STANDARD WASTEWATER APPLICATION RATES–SEPTIC TANK EFFLUENT

Percolation Rate (MPI)	Application Rate (gdp/ft^2)
1 TO 5	1.20
6	1.12

*TABLE 3–1
WASTEWATER DESIGN FLOWS FOR SINGLE FAMILY RESIDENCES AND SECOND UNITS

No. of Bedrooms	Design Flow (gal/day)
1	150
2	300
3	450
4	525
5	600
6	675
>6	+75 per bedroom

*COUNTY OF SANTA CLARA – DEH
ONSITE SYSTEM MANUAL – MAY 2014

5000-gallon Pinnacle Tank (volume to the bottom of the tank lid)

Height (inches)	Volume in Gallons (ignore baffles)	
0	0.00	
1	86.00	
2	172.37	
3	259.11	
4	346.23	
5	433.73	
6	521.61	
7	609.86	
8	698.50	
9	787.51	
10	876.90	1979.41 Gallons
11	966.67	
12	1056.82	
13	1147.36	
14	1238.27	
15	1329.57	
16	1421.25	
17	1513.31	
18	1605.76	
19	1698.59	
20	1791.81	
21	1885.42	
22	1979.41	PUMP OFF
23	2073.79	
24	2168.55	475.77 Gallons
25	2263.70	
26	2359.25	
27	2455.18	PUMP ON
28	2551.50	
29	2648.21	
30	2745.31	
31	2842.80	
32	2940.69	
33	3038.97	
34	3137.64	
35	3236.71	
36	3336.17	
37	3436.02	
38	3536.27	
39	3636.92	
40	3737.96	
41	3839.40	
42	3941.24	
43	4043.47	
44	4146.11	
45	4249.14	
46	4352.57	3939.40 Gallons
47	4456.41	
48	4560.64	
49	4665.28	
50	4770.32	
51	4875.76	
52	4981.61	
53	5087.86	
54	5194.51	
55	5301.57	
56	5409.04	
57	5516.91	
58	5625.19	
59	5733.87	
60	5842.97	
61	5952.47	
62	6062.38	
63	6172.70	
64	6283.43	
65	6394.57	

DISPERSAL TRENCH LENGTH CALCULATIONS

REFERENCE
SANTA CLARA COUNTY ONSITE SYSTEM MANUAL (OSM), MAY 2014

WASTEWATER DESIGN FLOW (WWDF)

FROM TABLE 3–2 OSM
FACTORIES AND INDUSTRIAL BUILDINGS (TOILET WASTES ONLY)
WITH SHOWERS (PER EMPLOYEE) = 35 GAL/DAY
EMPLOYEES/CUSTOMERS/VOLUNTEERS = 13

WWDF = 455 GAL/DAY

FUTURE JUNIOR ACCESSORY DWELLING UNIT NO. BEDROOM = 2
FROM TABLE 3–1 OSM
2 BEDROOM HOUSE = 300 GAL/DAY

WWDF = 300 GAL/DAY

FUTURE ACCESSORY DWELLING UNIT NO. BEDROOM = 3
FROM TABLE 3–1 OSM
3 BEDROOM HOUSE = 450 GAL/DAY

WWDF = 450 GAL/DAY

FUTURE HOUSE NO. BEDROOM = 6
FROM TABLE 3–1 OSM
6 BEDROOM HOUSE = 675 GAL/DAY

WWDF = 675 GAL/DAY

SMALL SCALE PERMANENT AGRICULTURAL HOUSING
NO. BEDROOM = 3
FROM TABLE 3–1 OSM
3 BEDROOM HOUSE = 450 GAL/DAY

WWDF = 450 GAL/DAY

TOTAL WWDF = 2330 GAL/DAY

STANDARD WASTEWATER APPLICATION RATES (SWAR)
AVERAGE ADJUSTED PERCOLATION RATE = 4.83 MPI
FROM TABLE 1 OSM WITH 5 MPI:

SWAR = 1.20

TRENCH LENGTH CALCULATIONS

$$L = \frac{Q}{RA}$$

L = TRENCH LENGTH;
Q = DESIGN WASTEWATER FLOW (GPD)
R = SWAR (GPD/SF)
A = TOTAL INFILTRATIVE AREA PER LINEAL FOOT OF TRENCH (SF)

USE INFILTRATIVE SURFACE OF 4 SF

$$L = \frac{2330}{(1.20)4} = 485.42'; \text{ USE } 486'$$

REGISTERED PROFESSIONAL ENGINEER
N. M. LE
No. 47518
CIVIL
STATE OF CALIFORNIA

NO.	REVISIONS	APP'D	DATE	BY

CT	DESIGNED	12/09/22 DATE
CT	DRAWN	12/09/22 DATE
AS NOTED	SCALE	
NL	CHECKED	12/09/22 DATE

LC ENGINEERING
598 E Santa Clara St, #270
San Jose, CA 95112
Phone: (408) 806-7187

SEPTIC SYSTEM PLAN
LANDS OF GOKULAM LLC
2425 OLD CALAVERAS ROAD
APN 029-34-004

Milpitas California

PROJECT NO.
CONTRACT NO.
DRAWING NO. SS3
SHT NO. 3 OF 3
FILE NO.

APPLICANT : . ROAD NAME : OLD CALAVERAS ROAD FILE NO : .