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NOTES

A.P.N. 029-35-007
PRESENT USE: AGRICULTURE/RANCH LAND
PROPOSED USE: AGRICULTURE/RANCH LAND
PRESENT ZONING: HS-D2
PROPOSED ZONING: HS-D2
SANITARY SEWER: SEPTIC
WATER SUPPLY: PRIVATE WELL
GAS & ELECTRIC: P.G. & E.
TELEPHONE: A.T.&T.
EXISTING IMPROVEMENTS: NONE
TOTAL PROJECT ACREAGE: 15.768 ACRES

GENERAL NOTES

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

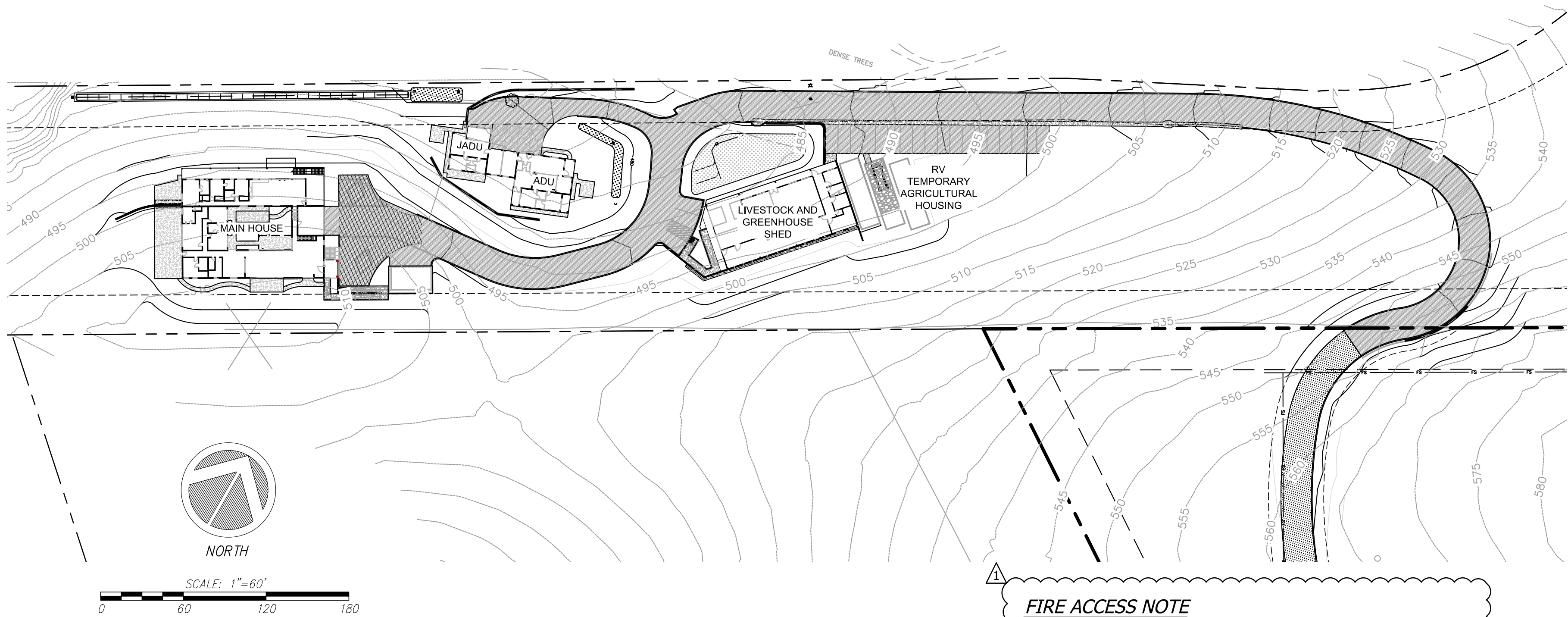
CONTRACTOR SHALL VERIFY LOCATIONS, ELEVATIONS AND INVERTS OF EXISTING UTILITY PRIOR TO COMMENCEMENT OF WORK AND SHALL NOTIFY OWNER OR OWNERS REPRESENTATIVES OF VARIANCE FROM THOSE SHOWN ON THE PLANS.

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

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

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

BARSANA RESIDENCE
APN: 029-35-007



OWNER/DEVELOPER:

BARSANA LLC,
40762 GREYSTONE TERRACE
FREMONT, CA 94538
PHONE: (216) 496-9596
EMAIL: vijay.datt@inf-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

SCOPE

- MULTIPLE SMALL STRUCTURES TO BE BUILT INCLUDING THE MAIN SINGLE FAMILY RESIDENCE WITH GARAGE, JADU WITH ADU, AND LIVESTOCK AND GREENHOUSE SHED. FOR MORE DETAILS AND SECTIONS FOR THE PROPOSED STRUCTURES PLEASE REFERENCE TO THE ARCHITECTURAL PLANS FOR THE PROPOSED SITE.

PROPOSED STRUCTURE SIZES
-PROPOSED MAIN BUILDING AND GARAGE = 7,974 SQ FT
-PROPOSED DETACHED GARAGE = 640 SQ FT
-PROPOSED JADU & ADU = 2,100 SQ FT
-PROPOSED LIVESTOCK AND GREENHOUSE SHED = 3,750 SQ FT
-PROPOSED RV TEMPORARY AGRICULTURAL RESIDENCE = 397 SQ FT

(N) IMPERVIOUS AREAS TABLE			
DESCRIPTION	AREA (SQ. FT.)	AREA (ACRES)	EQUIVALENT AREA (ACRES)
EXISTING	0	0	0
MAIN BUILDING & GARAGE	10,599	0.243	0.243
JADU & ADU	3,862	0.089	0.089
AC ROAD	27,776	0.638	0.638
CONCRETE VALLEY GUTTER	1,291	0.030	0.030
LIVESTOCK AND GREENHOUSE SHED	5,205	0.119	0.119
CONCRETE WALKWAY	791	0.018	0.018
AC PARKING	4,217	0.097	0.097
GRAVEL BASEROCK (PARKING)	266	0.006	0.004
TOTAL (N) IMPERVIOUS AREA	54,008	1.240	1.238
TOTAL LOT AREA	686,854	15.768	15.768
IMPERVIOUS % OF TOTAL LOT			15.7%

IMPERVIOUS AREA IN APN 029-34-004			
DESCRIPTION	AREA (SQ. FT.)	AREA (ACRES)	EQUIVALENT AREA (ACRES)
NEW ASPHALT ROAD	18,259	0.419	0.419

NOTE: EXISTING GRAVEL ROAD TO BE ASPHALTED PER 2022 RECLAMATION PLAN AMENDMENT FROM STATION 5+50 TO 15+26

FIRE ACCESS NOTE

FIRE DEPARTMENT ACCESS SHALL BE MADE OF AN "ALL WEATHER" MATERIAL CAPABLE OF HOLDING 75,000 POUNDS.

DEFERRED SUBMITAL NOTE

THE FOLLOWING SHALL BE DEFERRED AND SUBMITTED SEPARATELY FROM THIS APPLICATION:
A. RESIDENTIAL FIRE SPRINKLERS.
B. FIRE PROTECTION UNDERGROUND (STANDARD FIRE HYDRANT).

BUILDING SITE APPROVAL SLOPE CALCULATIONS

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

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

PROPOSED DEVELOPED AREA FOR LOT

$$S = \frac{1 * 30,251}{158,412 \text{ SQ.FT.}} (100) = 19.10\% \text{ AVE. SLOPE}$$

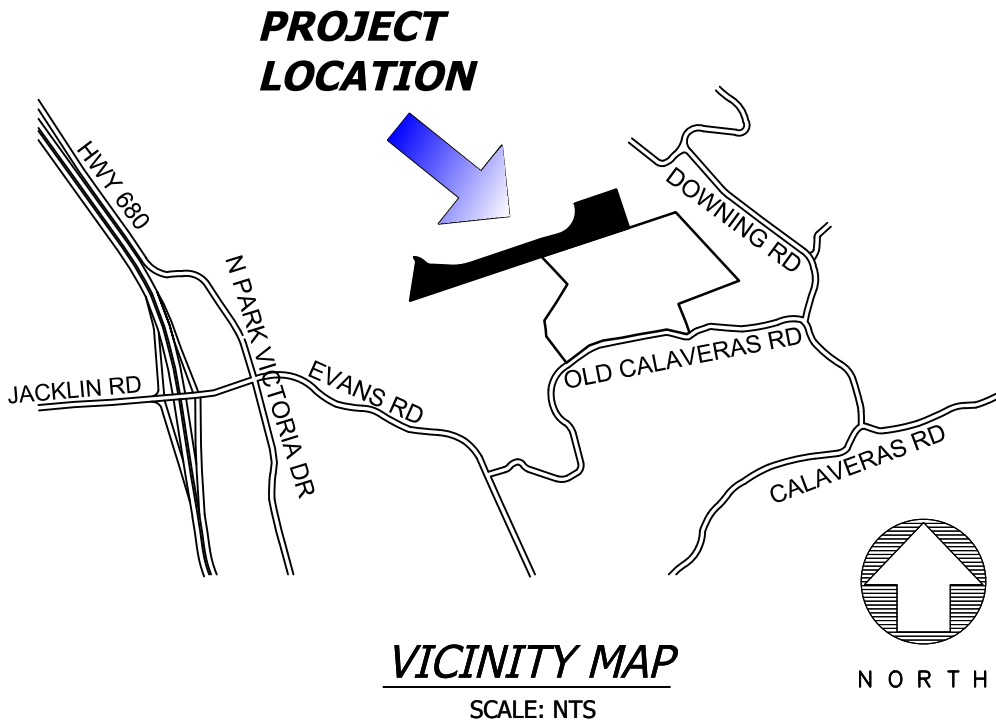
PROJECT EARTHWORK QUANTITIES

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

DESCRIPTION	CUT (cu.yds)	FILL (cu.yds)	NET (cu.yds)	MAX CUT (ft) HEIGHT	MAX FILL (ft) HEIGHT
MAIN RESIDENCE BLDG + 5' PERIMETER	773	279	494(C)	10.6	4.6
MAIN RESIDENCE SITE GRADING & DWY	2528	518	2010(C)	10.8	5.7
ADU/JADU BLDG + 5' PERIMETER	161	87	74(C)	5.6	4.0
ADU/JADU SITE GRADING & DWY	563	953	390(F)	7.2	7.3
ROAD (APN 029-35-007)	527	1826	1299(F)	8.4	7.7
ROAD (APN 029-34-004)	1870	3101	1231(F)	9.0	9.3
LIVESTOCK AND GREENHOUSE SHED RV PARKING + 5' PERIMETER	479	164	315(C)	7.0	3.2
LIVESTOCK AND GREENHOUSE SHED SITE GRADING AND DWY	712	646	66(C)	7.0	5.4
TOTAL	7613	7574	39(C)		

NET VOLUME = 39 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.



CONTRACTOR RESPONSIBILITY

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

DISCREPANCIES

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

CONSTRUCTION SURVEYING / STAKING

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

ADDITIONAL NOTES

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

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

UNAUTHORIZED CHANGES AND USES

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

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. WATER TANKS TO HAVE A MINIMUM HEIGHT OF 12 FEET AND MEET STANDARDS SET IN CFM0 W2 & W5 . TANKS GREATER THAN 12 FEET IN HEIGHT WILL REQUIRE A SEPARATE BUILDING PERMIT.
4. FIRE HYDRANT SHALL MEET STANDARDS SET IN CFM0-W2.
5. WATER TANK SHALL BE SIZED PER NFPA 1142 TO INCLUDE SPRINKLER DEMAND AND HYDRANT DEMAND.
6. ALL STRUCTURES SHALL MEET WILDLAND URBAN INTERFACE (WUI) REQUIREMENTS AT BUILDING PERMIT SUBMITTAL
7. NFPA 13 FIRE SPRINKLERS SHALL BE INSTALLED IN ALL BUILDINGS AND WILL BE A DEFERRED SUBMITTAL.
8. ALL DEFERRED SUBMITTALS FOR FIRE PROTECTION UNDERGROUND, FIRE HYDRANTS, WATER TANKS, & FIRE PUMP.
9. PROPERTY TO MAINTAIN 100 FEET DEFENSIBLE SPACE AT ALL TIMES.
10. STRUCTURES SHALL CONFORM TO WUI BUILDING REQUIREMENTS.

ALL CONSTRUCTION SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES AND THE CODES LISTED BELOW OR THE MOST CURRENT CODES AND ORDINANCES 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 CODE
6. 2022 CALIFORNIA ENERGY CODE
7. 2022 CALIFORNIA RESIDENTIAL CODE
8. 2022 CALIFORNIA FIRE CODE

REVISIONS

BY

1 RESPONSE TO SCC COMMENTS 11/05/21 DD

2 RESPONSE TO SCC COMMENTS 03/16/23 DD

3 RESPONSE TO SCC COMMENTS 05/25/23 DD

COVER SHEET

REGISTERED PROFESSIONAL ENGINEER

TODD R. CREMER

No. C 64561

Exp. 6/30/25

CIVIL

STATE OF CALIFORNIA

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C2G CIVIL CONSULTANTS GROUP, INC.

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By: ERS/MS/MJW

BARSANA RESIDENCE

AUGUSTE COURT

APN: 029-35-007

Date: 09/27/23

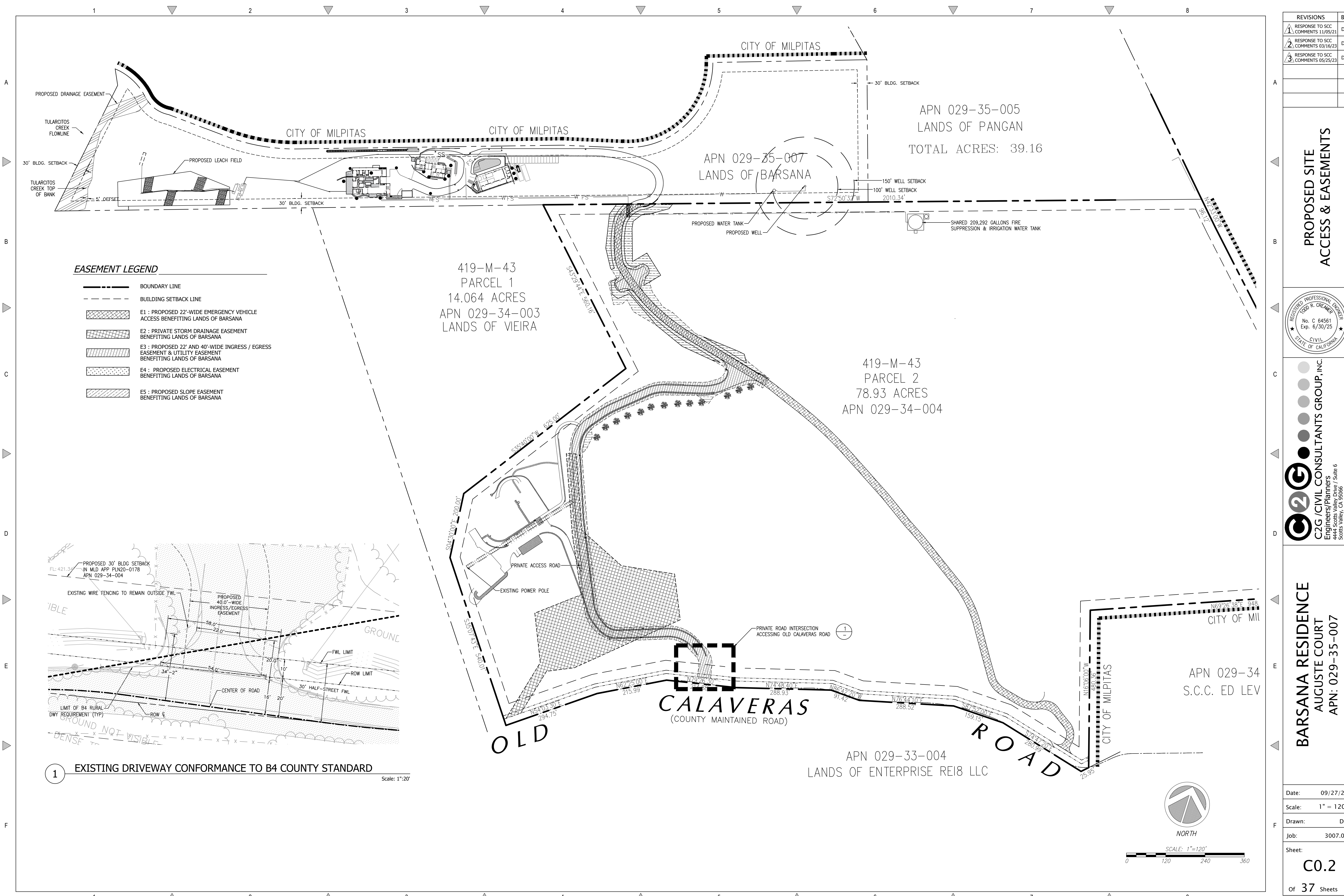
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of 37 Sheets



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2	RESPONSE TO SCC COMMENTS 03/16/23	DD
3	RESPONSE TO SCC COMMENTS 05/25/23	DD

PROPOSED SITE ACCESS & EASEMENTS

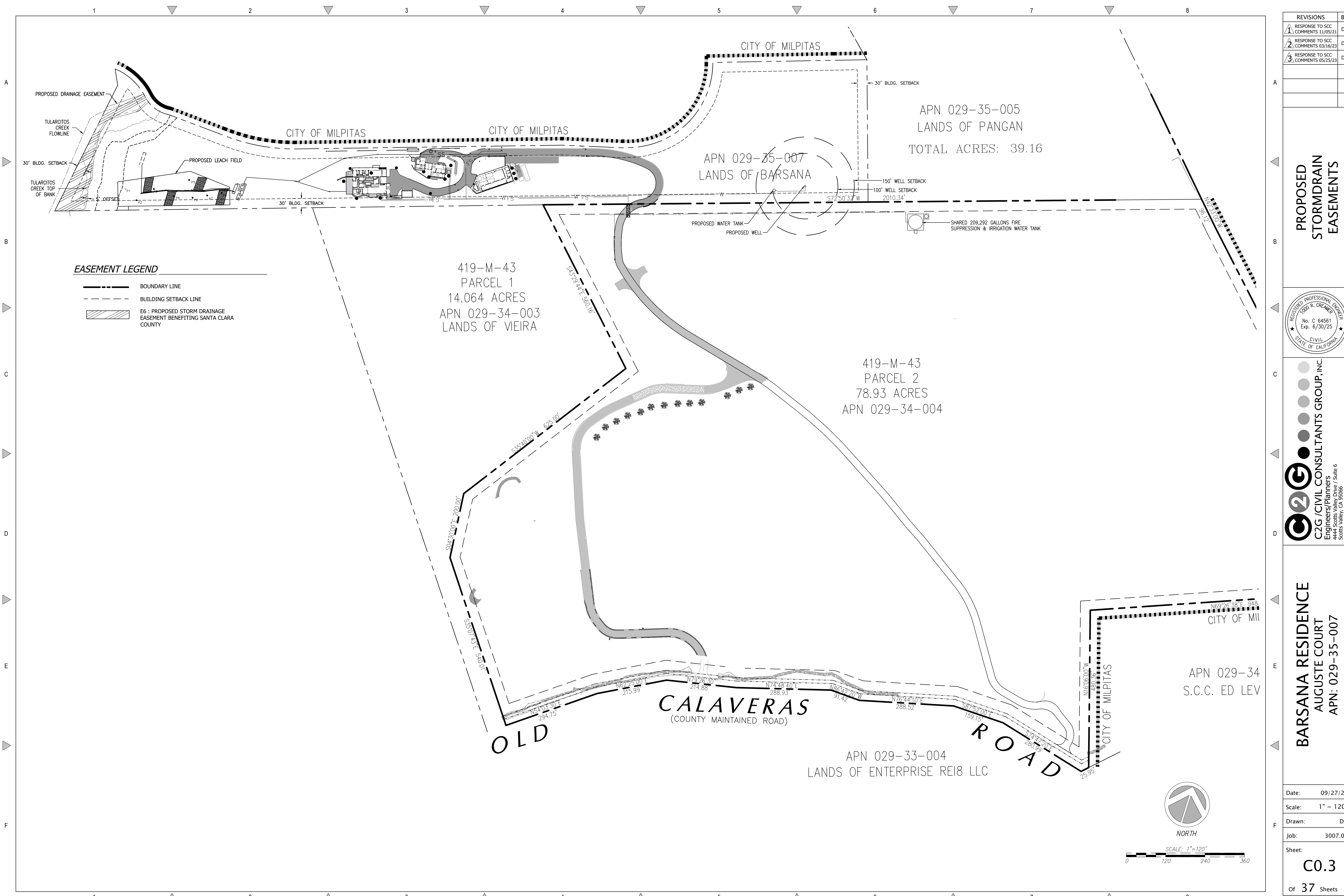
REGISTERED PROFESSIONAL ENGINEER
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BARSANA RESIDENCE
AUGUSTE COURT
APN: 029-35-007

Date: 09/27/23
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of 37 Sheets

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3	RESPONSE TO SCC COMMENTS 05/25/23	DD

PROPOSED STORMDRAIN EASEMENTS

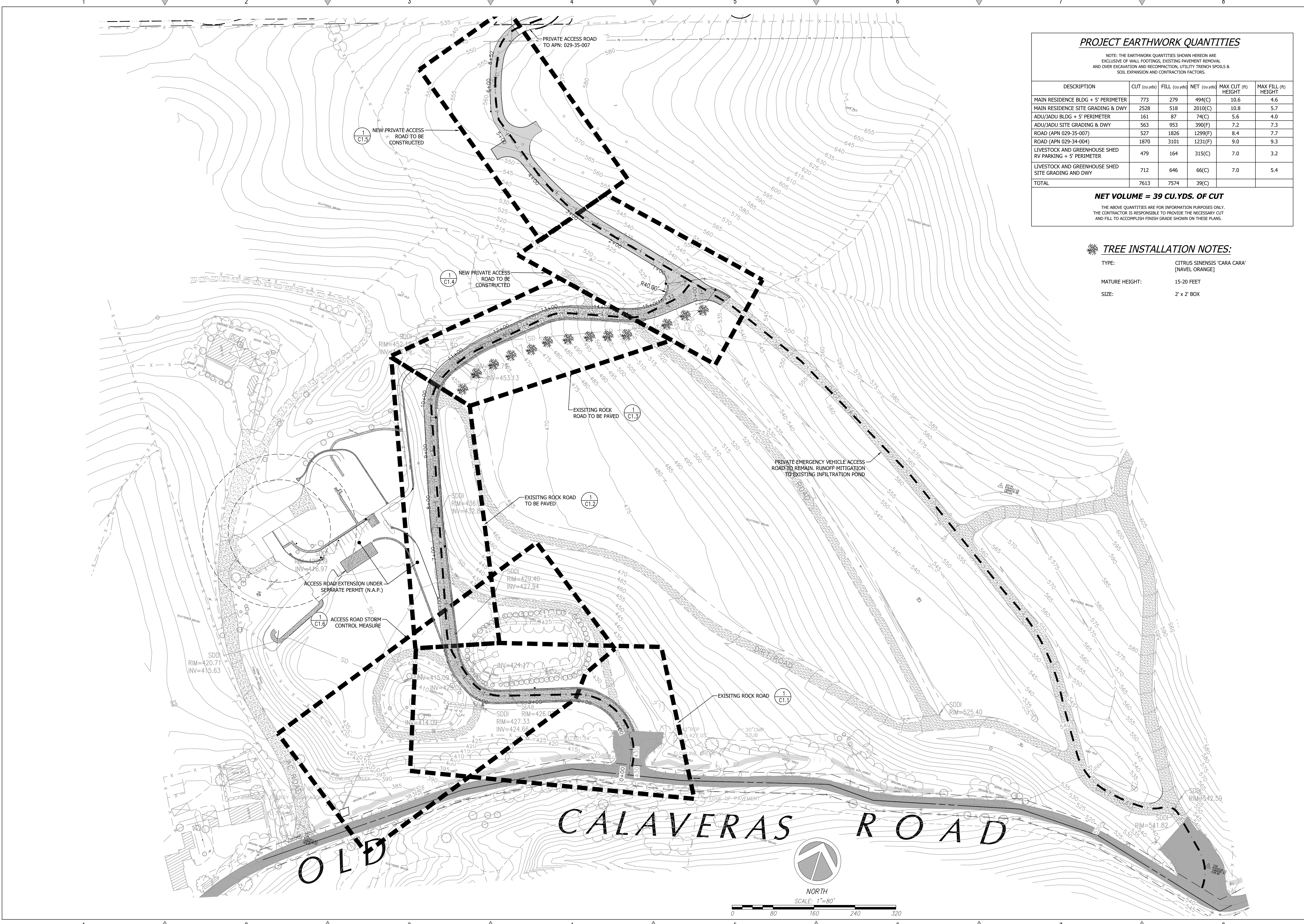
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BARSANA RESIDENCE
AUGUSTE COURT
APN: 029-35-007

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PROJECT EARTHWORK QUANTITIES					
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MAIN RESIDENCE SITE GRADING & DWY	2528	518	2010(C)	10.8	5.7
ADU/JADU BLDG + 5' PERIMETER	161	87	74(C)	5.6	4.0
ADU/JADU SITE GRADING & DWY	563	953	390(F)	7.2	7.3
ROAD (APN 029-35-007)	527	1826	1299(F)	8.4	7.7
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LIVESTOCK AND GREENHOUSE SHED RV PARKING + 5' PERIMETER	479	164	315(C)	7.0	3.2
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TOTAL	7613	7574	39(C)		
NET VOLUME = 39 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.					

TREE INSTALLATION NOTES:

TYPE: CITRUS SINENSIS 'CARA CARA' [NAVEL ORANGE]

MATURE HEIGHT: 15-20 FEET

SIZE: 2' x 2' BOX

REVISIONS

1

RESPONSE TO SCC COMMENTS 11/05/21

DD

2

RESPONSE TO SCC COMMENTS 03/16/23

DD

3

RESPONSE TO SCC COMMENTS 05/25/23

DD

EXISTING SITE ACCESS

REGISTERED PROFESSIONAL ENGINEER

TODD R. CREMER

No. C 64561

Exp. 6/30/25

CIVIL

STATE OF CALIFORNIA

C2G

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BARSANA RESIDENCE

AUGUSTE COURT

APN: 029-35-007

Date:

09/27/23

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1" = 80'

Drawn:

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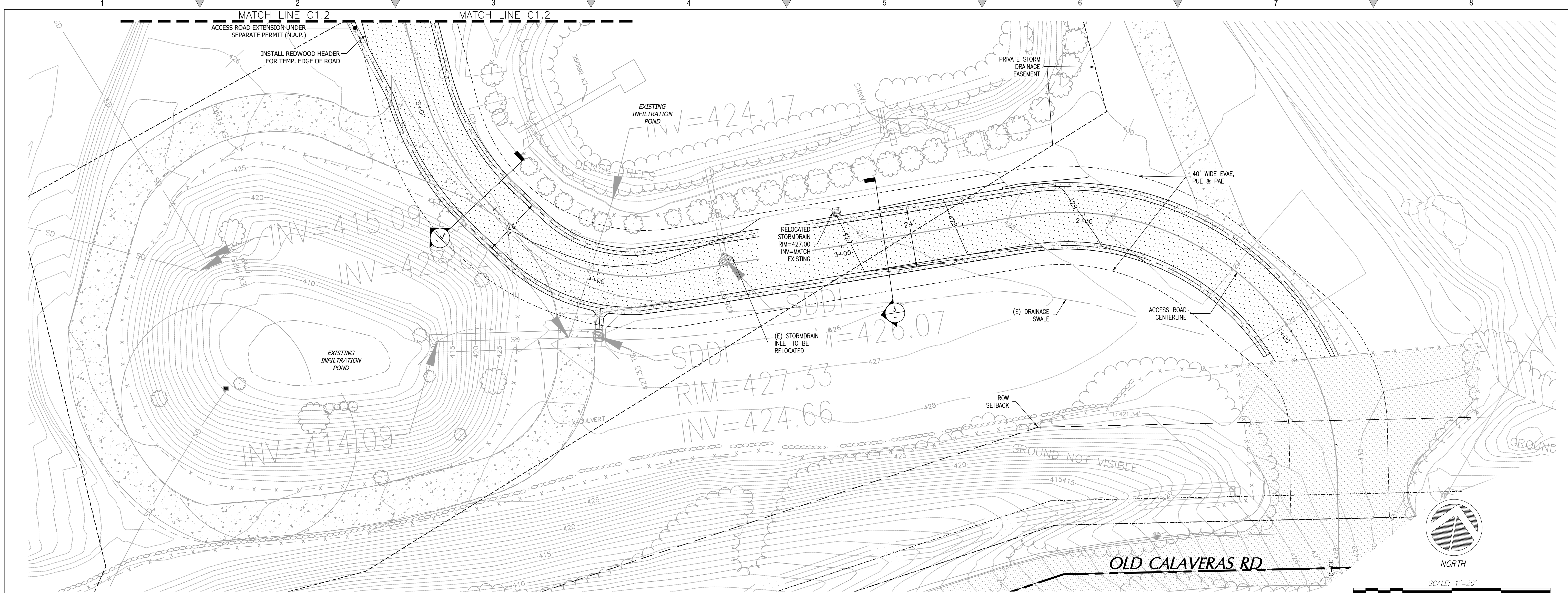
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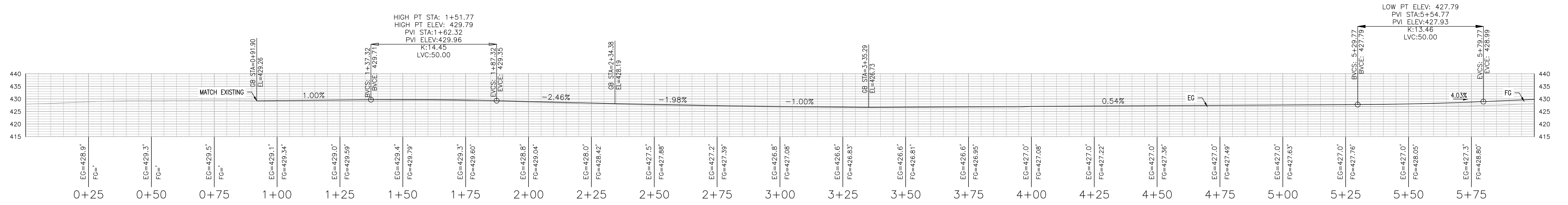
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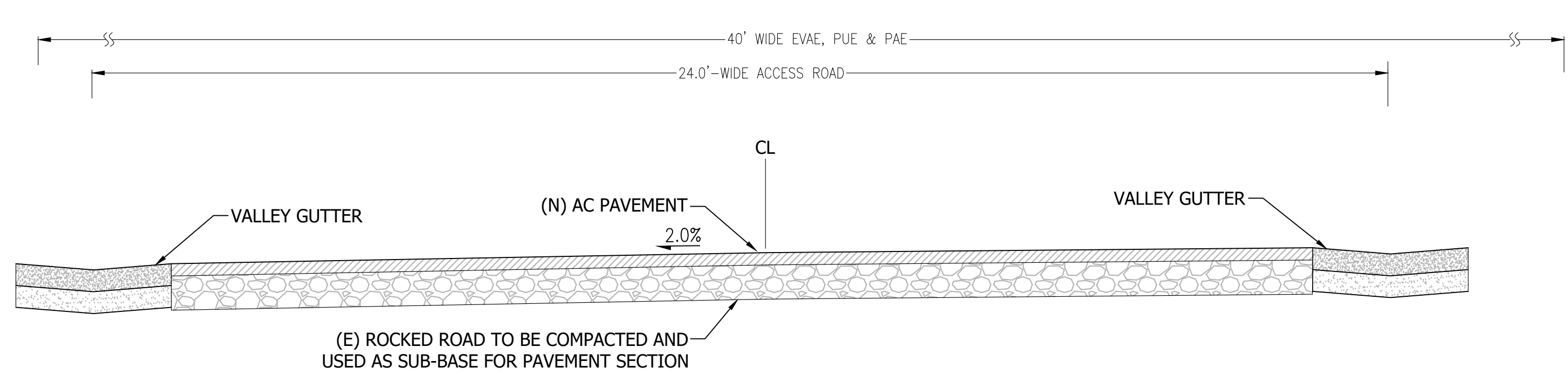
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1 EXISTING ACCESS ROAD PLAN



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



3 22'-WIDE ACCESS ROAD SECTION

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1	RESPONSE TO SCC COMMENTS 11/05/21	DD
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EXISTING ACCESS ROAD PLAN & PROFILES

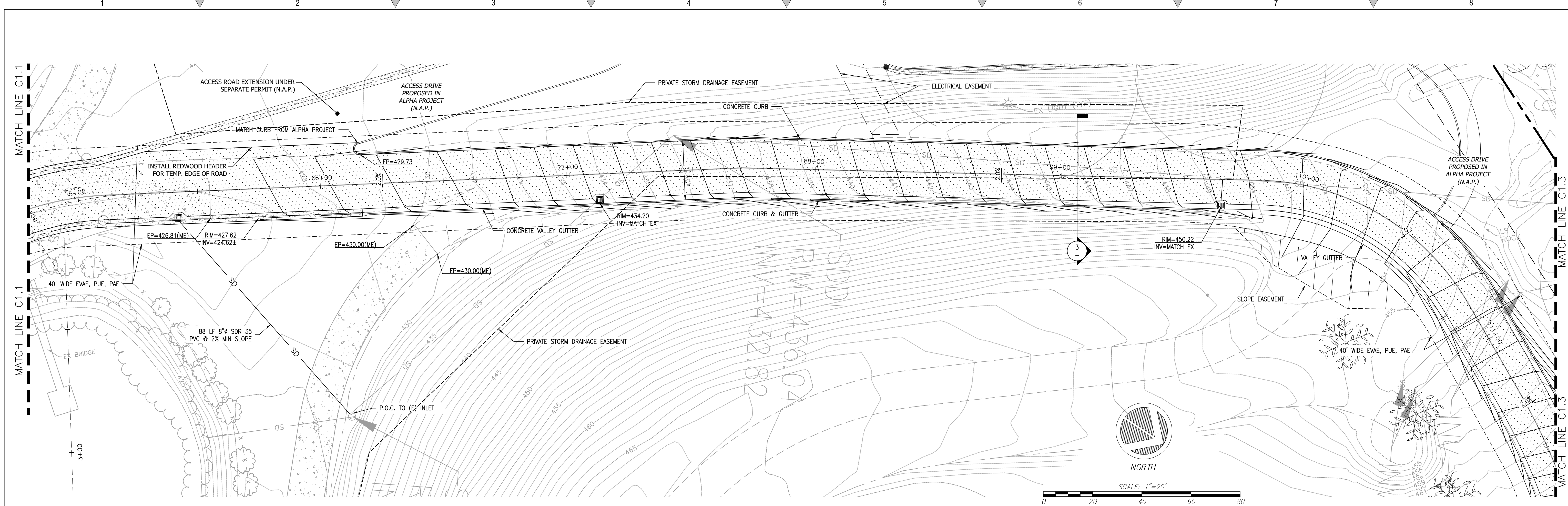
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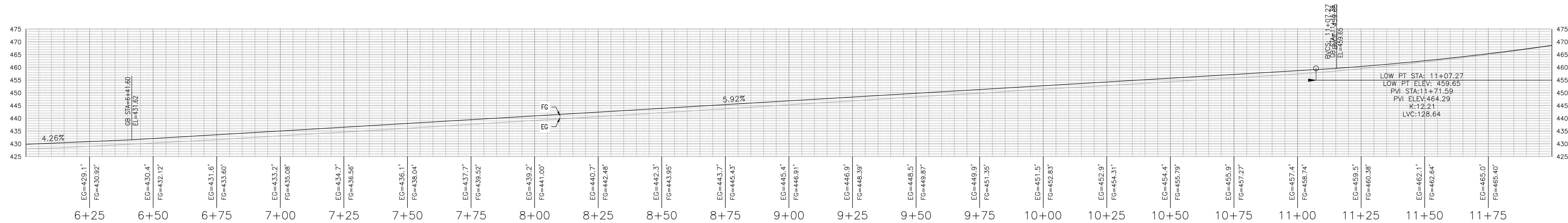
BARSANA RESIDENCE
AUGUSTE COURT
APN: 029-35-007

Date: 09/27/23
Scale: 1" = 20'
Drawn: DD
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of 37 Sheets



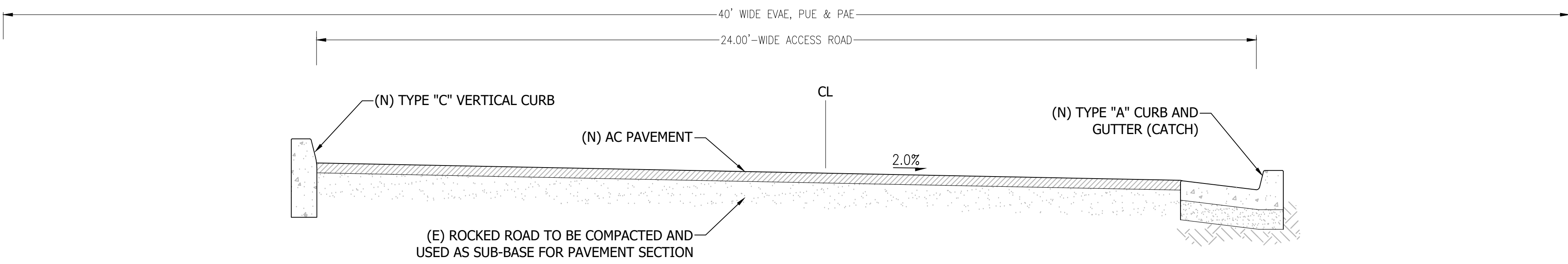
1 PROPOSED ACCESS ROAD PLAN

Scale: 1:20



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

Scale: 1:20



3 24'-WIDE ACCESS ROAD SECTION

Scale: 1":2'

REVISIONS		BY
1	RESPONSE TO SCC COMMENTS 11/05/21	DD
2	RESPONSE TO SCC COMMENTS 03/16/23	DD
3	RESPONSE TO SCC COMMENTS 05/25/23	DD

ACCESS ROAD PLAN & PROFILES

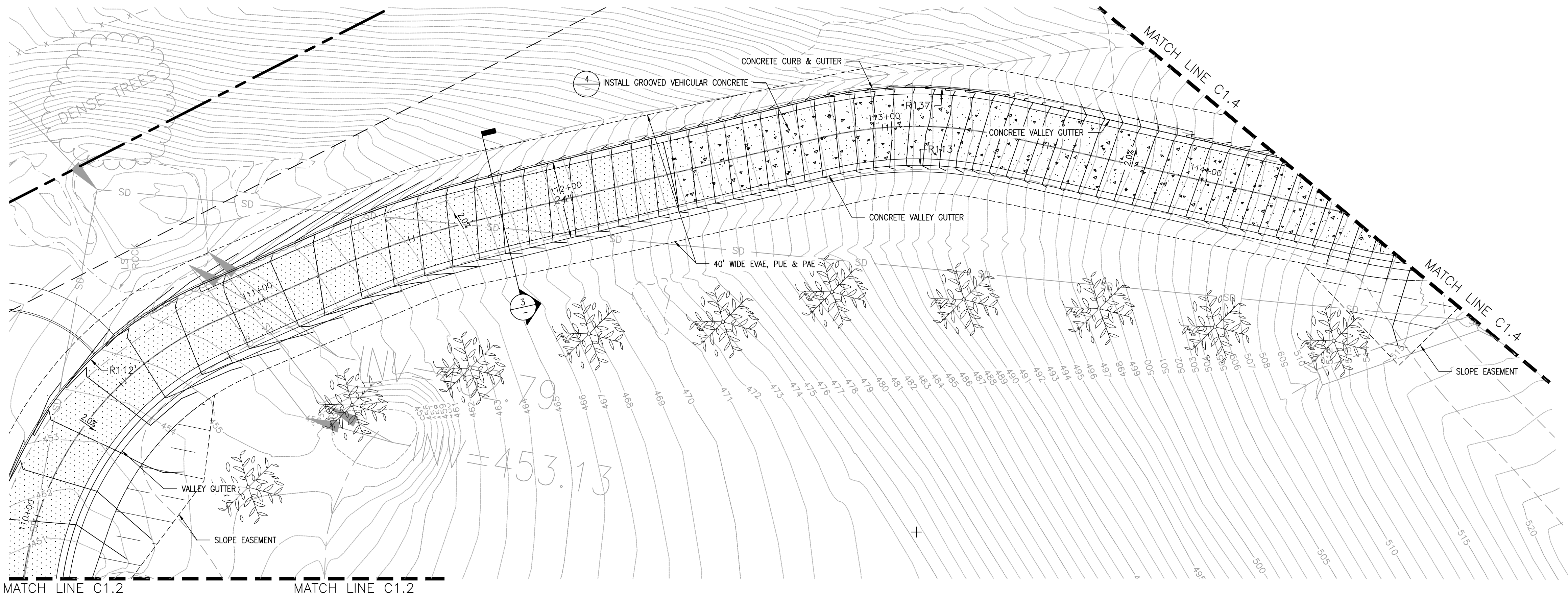
REGISTERED PROFESSIONAL ENGINEER
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BARSANA RESIDENCE AUGUSTE COURT APN: 029-35-007

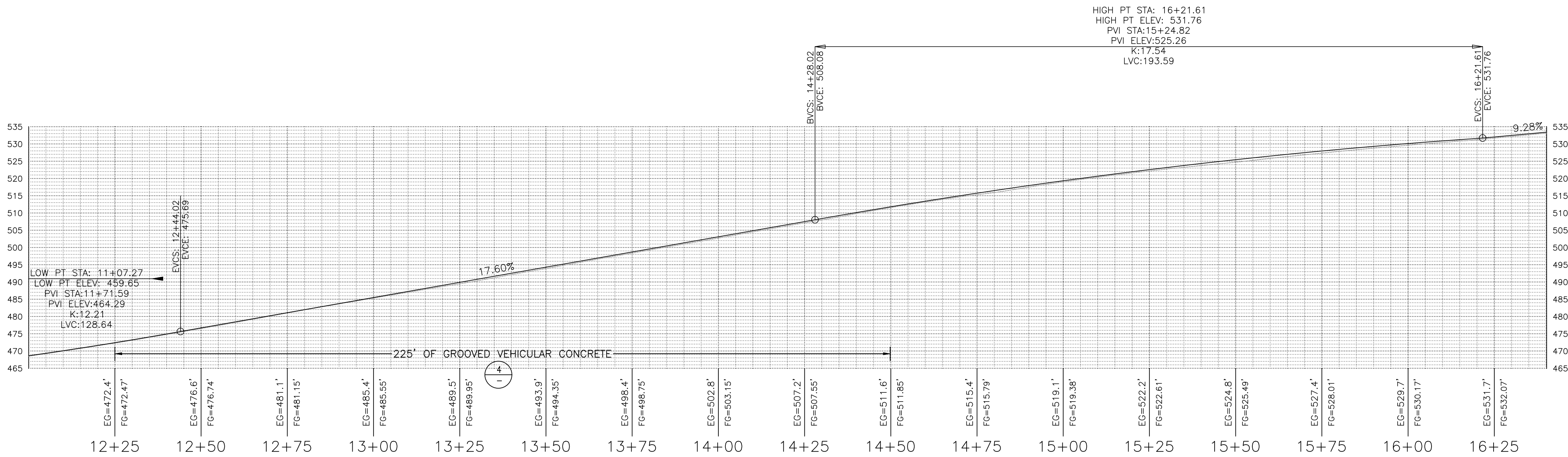
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Sheet:	C1.2
Of	37 Sheets

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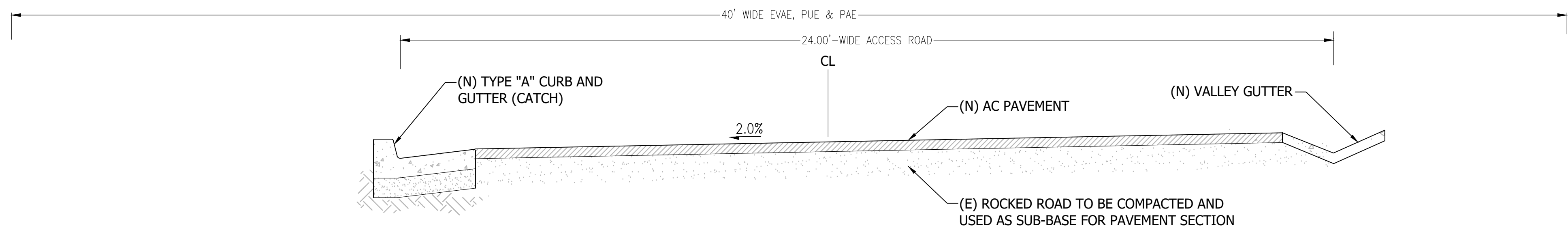
1 PROPOSED ACCESS ROAD PLAN

Scale: 1:20



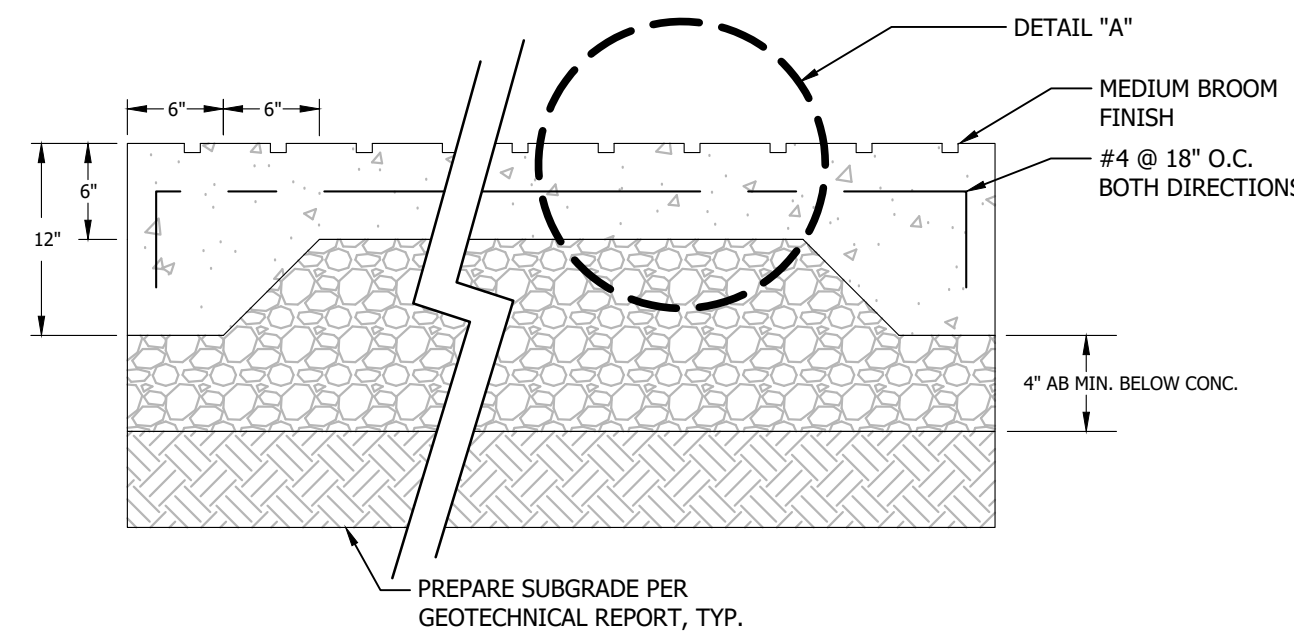
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Scale: 1:20

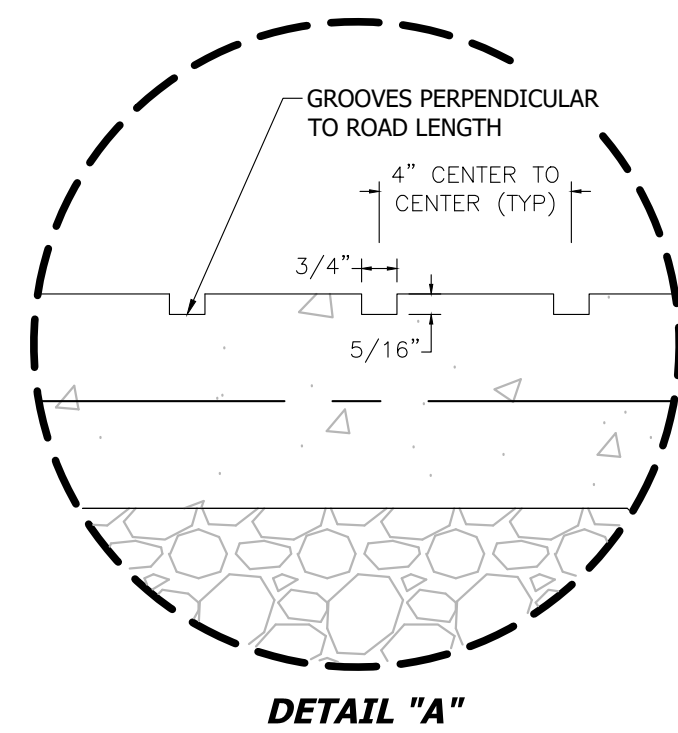


3 24'-WIDE ACCESS ROAD SECTION

Scale: 1":2'



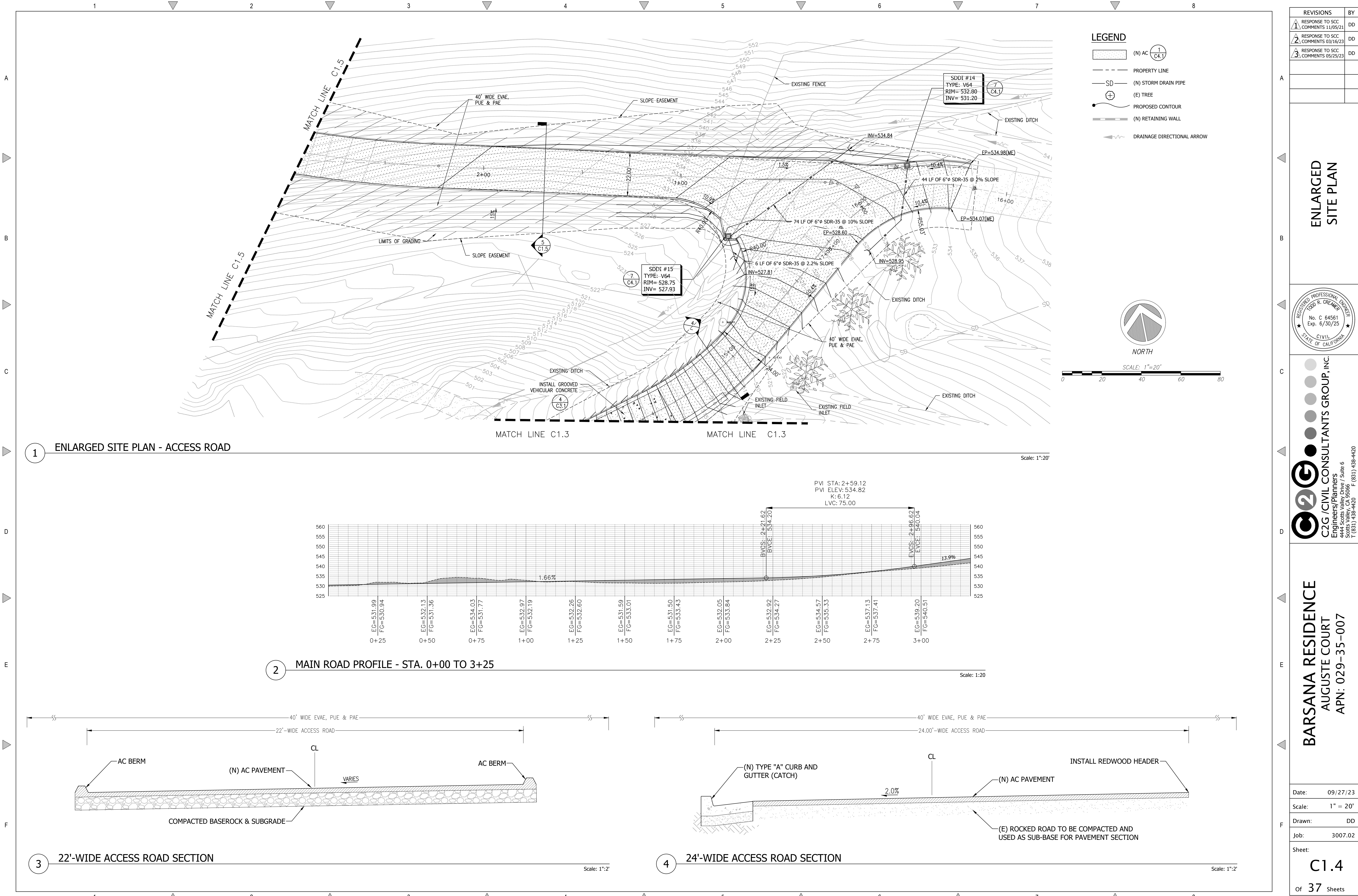
- NOTE:
1. TYPE OF CONCRETE: CLASS A
 2. MINIMUM 6" CLASS 2 AB, COMPACTED TO 95%.
 3. SEE LANDSCAPE PLAN FOR LOCATION OF SCORING AND EXPANSION JOINTS.
 4. DOWEL WITH #4 BARS, 12" LONG, AT 24" ON CENTERS, EMBEDDED 4" WITH EPOXY IN EDGE OF EXISTING CONCRETE.
 5. DOWELING & REINFORCING TO BE PROVIDED AT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



4 VEHICULAR CONCRETE SECTION W/ GROOVES

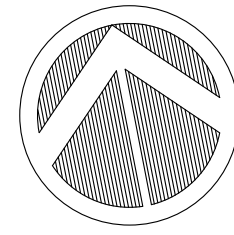
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REVISIONS		BY
1	RESPONSE TO SCC COMMENTS 11/05/21	DD
2	RESPONSE TO SCC COMMENTS 03/16/23	DD
3	RESPONSE TO SCC COMMENTS 05/25/23	DD
ACCESS ROAD PLAN & PROFILES		
REGISTERED PROFESSIONAL ENGINEER TODD R. CREMER No. C 64561 Exp. 6/30/25 CIVIL STATE OF CALIFORNIA		
C2G CIVIL CONSULTANTS GROUP, INC. Engineers/Planners 4400 Scotts Valley Road, Suite 6 Scotts Valley, CA 95066 T (831) 438-4420 F (831) 438-4420		
BARSANA RESIDENCE AUGUSTE COURT APN: 029-35-007		
Date:	09/27/23	
Scale:	1" = 20'	
Drawn:	DD	
Job:	3007.02	
Sheet:	C1.3	
of	37 Sheets	



LEGEND

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



SCALE: 1"=20'

Scale: 1"=20'

PVI STA: 2+59.12
PVI ELEV: 534.82
K: 6.12
LVC: 75.00

BVCS: 2+21.62
BVCE: 534.20
EVCS: 2+86.62
EVCE: 540.04

REVISIONS		BY
1	RESPONSE TO SCC COMMENTS 11/05/21	DD
2	RESPONSE TO SCC COMMENTS 03/16/23	DD
3	RESPONSE TO SCC COMMENTS 05/25/23	DD

ENLARGED SITE PLAN

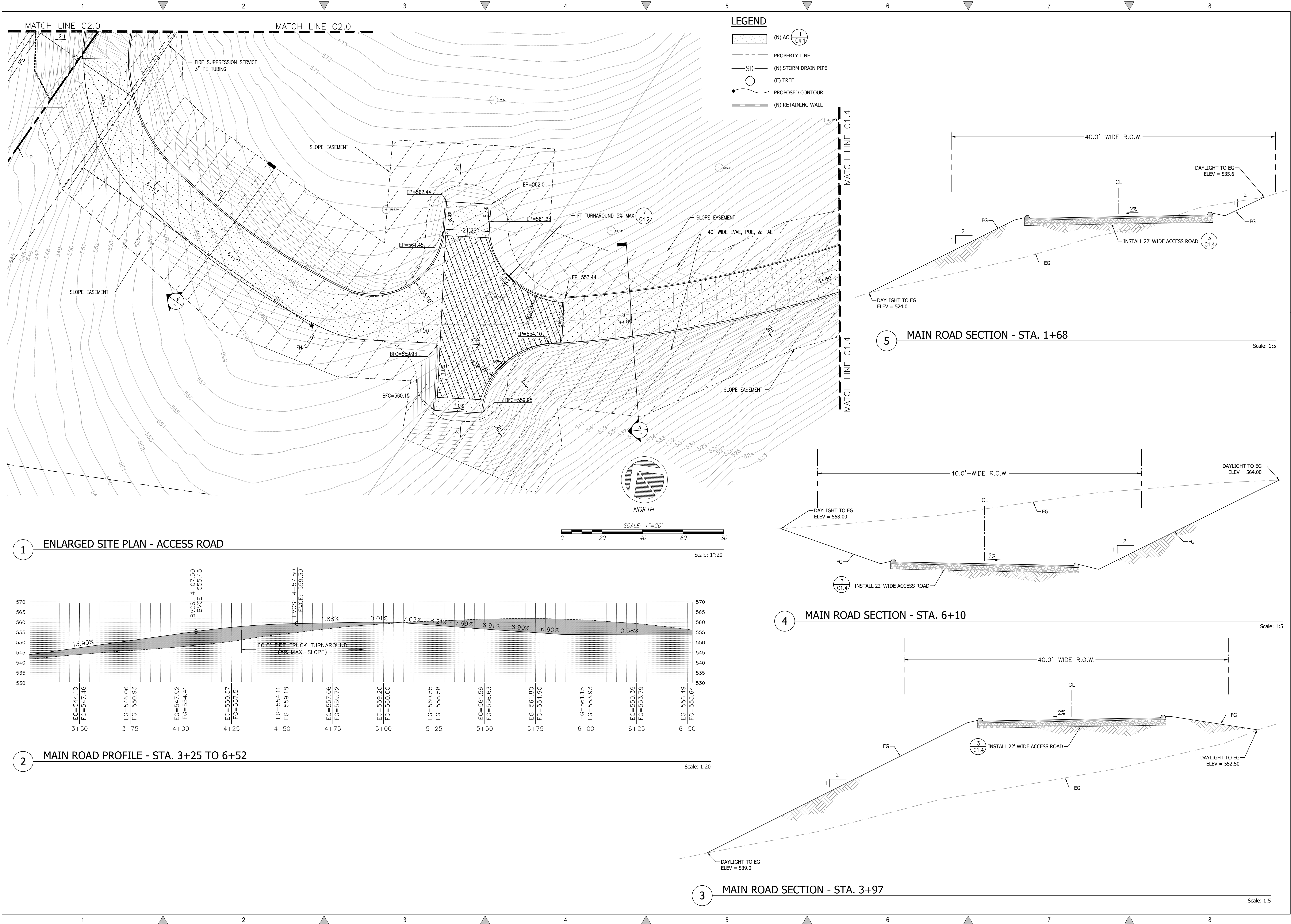
REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
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Exp. 6/30/25
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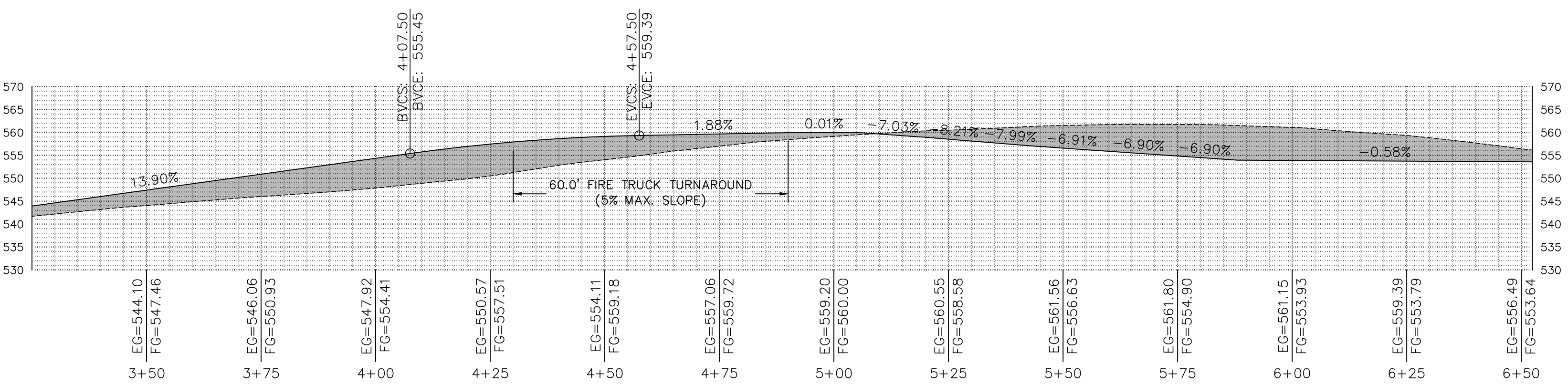
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AUGUSTE COURT
APN: 029-35-007

Date: 09/27/23
Scale: 1" = 20'
Drawn: DD
Job: 3007.02
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C1.4
Of 37 Sheets

Layout: C1.4 - ACCESS STREET PLAN & PROFILE.dwg
Drawing: 2 (Sheet) CAG 1007.02 - 11" - Sept. Quarry 15, 2024
Last Saved: Thu May 02, 2024 - 2:25pm
Last Plotted: Wed May 08, 2024 - 9:20am
By: EAS/Amg/val



1 ENLARGED SITE PLAN - ACCESS ROAD



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

LEGEND

- (N) AC (1/4" = 1')
- PROPERTY LINE
- (N) STORM DRAIN PIPE
- (E) TREE
- PROPOSED CONTOUR
- (N) RETAINING WALL

5 MAIN ROAD SECTION - STA. 1+68

4 MAIN ROAD SECTION - STA. 6+10

3 MAIN ROAD SECTION - STA. 3+97

REVISIONS		BY
1	RESPONSE TO SCC COMMENTS 11/05/21	DD
2	RESPONSE TO SCC COMMENTS 03/16/23	DD
3	RESPONSE TO SCC COMMENTS 05/25/23	DD

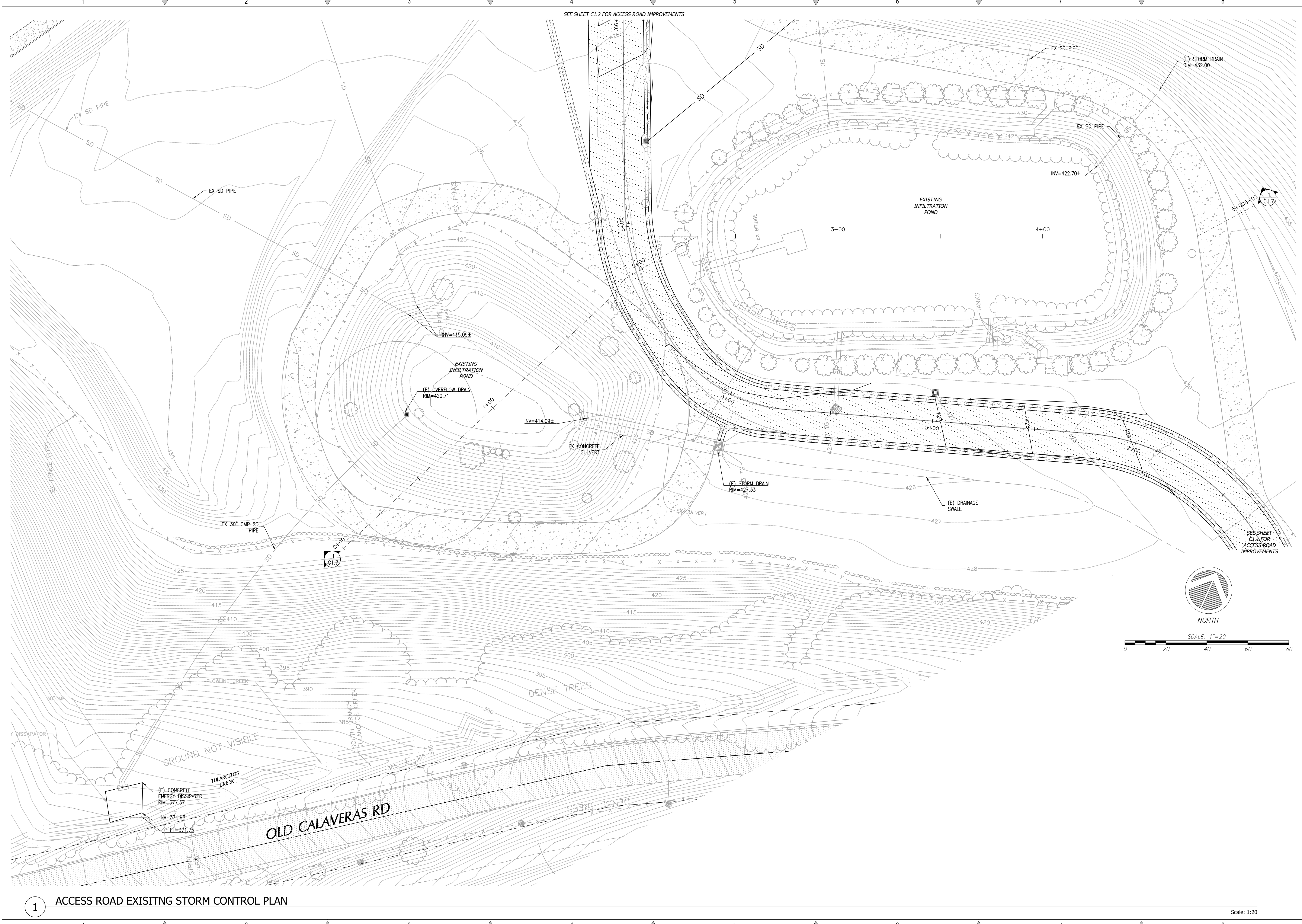
PROPOSED ACCESS PLAN AND PROFILE

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREMER
No. C 64561
Exp. 6/30/25
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Job: 3007.02
Sheet: C1.5
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1 ACCESS ROAD EXISTING STORM CONTROL PLAN

Scale: 1:20

REVISIONS		BY
1	RESPONSE TO SCC COMMENTS 11/05/21	DD
2	RESPONSE TO SCC COMMENTS 03/16/23	DD
3	RESPONSE TO SCC COMMENTS 05/25/23	DD

EXISTING INFILTRATION POND PLAN

REGISTERED PROFESSIONAL ENGINEER

TODD R. CREAGER

No. C 64561

Exp. 6/30/25

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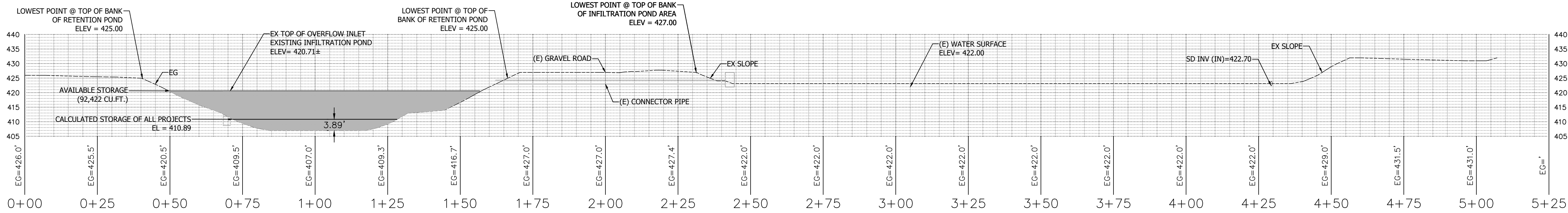
BARSANA RESIDENCE

AUGUSTE COURT

APN: 029-35-007

Date:	09/27/23
Scale:	1" = 20'
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Job:	3007.02
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Of	37 Sheets

Drawing: Z:\Shared CAD\0007.02 - BAR - Septa Quarry 15 acre SPB Design\CAD\0007.02 - BAR - EX INFILTRATION SWMP.dwg Layout: C1.6 - 3007 - EX INFILTRATION SWMP.dwg Last Saved: Wed Feb 28, 2024 - 10:24am By: ERSonMgual



1 EXISTING INFILTRATION POND, DRAIN AND OVERFLOW STRUCTURE

Scale: 1" = 20'

BARSANA (15-ACRE LOT) SFH PROJECT

IMPERVIOUS AREA IN APN 029-34-004			
DESCRIPTION	AREA (SQ. FT.)	AREA (ACRES)	EQUIVALENT AREA (ACRES)
NEW ASPHALT ROAD	18,259	0.419	0.419

NOTE: EXISTING GRAVEL ROAD TO BE ASPHALTED PER 2022 RECLAMATION PLAN AMENDMENT FROM STATION 5+50 TO 15+26

GOKULAM BUILDING PERMIT FOR LIVESTOCK SHELTERS

SHED 1: DEV22-3196
SHED 2: DEV22-3201
SHED 3: DEV22-3202

STORAGE 1: DEV22-3206
STORAGE 2: DEV22-3207

NEW IMPERVIOUS AREA			
DESCRIPTION	SQ. FT.	EQUIV. SF	ACRES
ROOF	1740	1740	0.0399
AC	1686	1686	0.0387
CONC.	2797	2797	0.0642
GRAVEL	2139	1283	0.0295
TOTAL	8362	7506	0.1723

GOKULAM WATER TANK IMPROVEMENT PROJECT

DEV23-0115

IMPERVIOUS AREA		
DESCRIPTION	SQ. FT.	ACRES
WATER TANK	2337	0.0537
AC	1063	0.0244
CONC.	2701	0.0620
TOTAL	6101	0.1401

GOKULAM LIVESTOCK SHELTER ACCESS ROAD AND PARKING

FUTURE CARPORT FOR THE UTILITY VEHICLE APPROVED UNDER PLN20-125
FUTURE LIVESTOCK SHELTER APPROVED UNDER PLN20-125
FUTURE FEE STORAGE SHED APPROVED UNDER PLN20-125
FUTURE AGRICULTURAL SHED APPROVED UNDER PLN20-125

NEW IMPERVIOUS AREA		
DESCRIPTION	AREA (SF)	ACRES
ROOF	12053	0.2767
AC	24287	0.5576
CONC.	10660	0.2447
TOTAL	47000	1.0790

GOKULAM SMALL SCALE PERMANENT AGRICULTURAL EMPLOYEE HOUSING

NEW IMPERVIOUS AREA		
DESCRIPTION	AREA (SF)	ACRES
BUILDING	1849	0.0424
CONCRETE DRIVEWAY	372	0.0085
ASPHALT ROAD	571	0.0131
CONCRETE WALKWAYS	413	0.0095
TOTAL (N) IMPERVIOUS AREA	3205	0.0736
EXISTING IMPERVIOUS AREA TBR	0	0.0000
NET INCREASE OF IMPERVIOUS AREA	3205	0.0736

5/6/2024							
All Projects							
Runoff to existing retention pond							
	MAP (inches) =	30				CPOST =	0.90
	DMA Area (sf) =	82067				CPRE =	0.25
	Imp. Area (sf) =	82067					
Prop. Struct. =	length (ft) =	71				Void Space =	1
	width (ft) =	71				Infiltr Rate (in/hr) =	5
	depth (ft) =	6.00					
T (min)	100-Yr Depth (in)	Intensity (in/hr)	Peak Flow (CFS)	Volume In (CU.FT.)	Volume Out (CU.FT.)	Soil Infiltration Rate (cfs)	Storage Vol. (Cu. Ft.)
5	0.38	4.53	7.68	2710.007	147.399	0.491	2562.609
10	0.53	3.21	5.44	3839.054	294.797	0.491	3544.257
15	0.63	2.52	4.27	4524.446	442.196	0.491	4082.250
30	0.85	1.70	2.88	6101.177	884.392	0.491	5216.785
60	1.20	1.20	2.04	8635.978	1768.783	0.491	6867.195
120	1.82	0.91	1.54	13060.079	3537.567	0.491	9522.512
180	2.38	0.79	1.34	17061.018	5306.350	0.491	11754.668
360	3.81	0.63	1.08	27346.642	10612.700	0.491	16733.942
720	5.69	0.47	0.80	40840.287	21225.400	0.491	19614.887
1440	8.12	0.34	0.57	58278.272	42450.800	0.491	15827.472
2880	10.99	0.23	0.39	78911.826	84901.600	0.491	-5989.774
5760	12.85	0.13	0.23	92246.365	169803.200	0.491	-77556.835
Depth of new runoff in pond (ft) =							3.89

2 IMPERVIOUS AREA TABULATION OF CURRENT PROJECTS

2 STORM WATER CALCULATION PER SANTA CLARA DESIGN MANUAL

REVISIONS

BY

1 RESPONSE TO SCC COMMENTS 11/05/21

DD

2 RESPONSE TO SCC COMMENTS 03/16/23

DD

3 RESPONSE TO SCC COMMENTS 05/25/23

DD

EXISTING INFILTRATION POND PLAN

REGISTERED PROFESSIONAL ENGINEER

TODD R. CREMER

No. C 64561

Exp. 6/30/25

CIVIL

STATE OF CALIFORNIA

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BARSANA RESIDENCE

AUGUSTE COURT

APN: 029-35-007

Date: 09/27/23

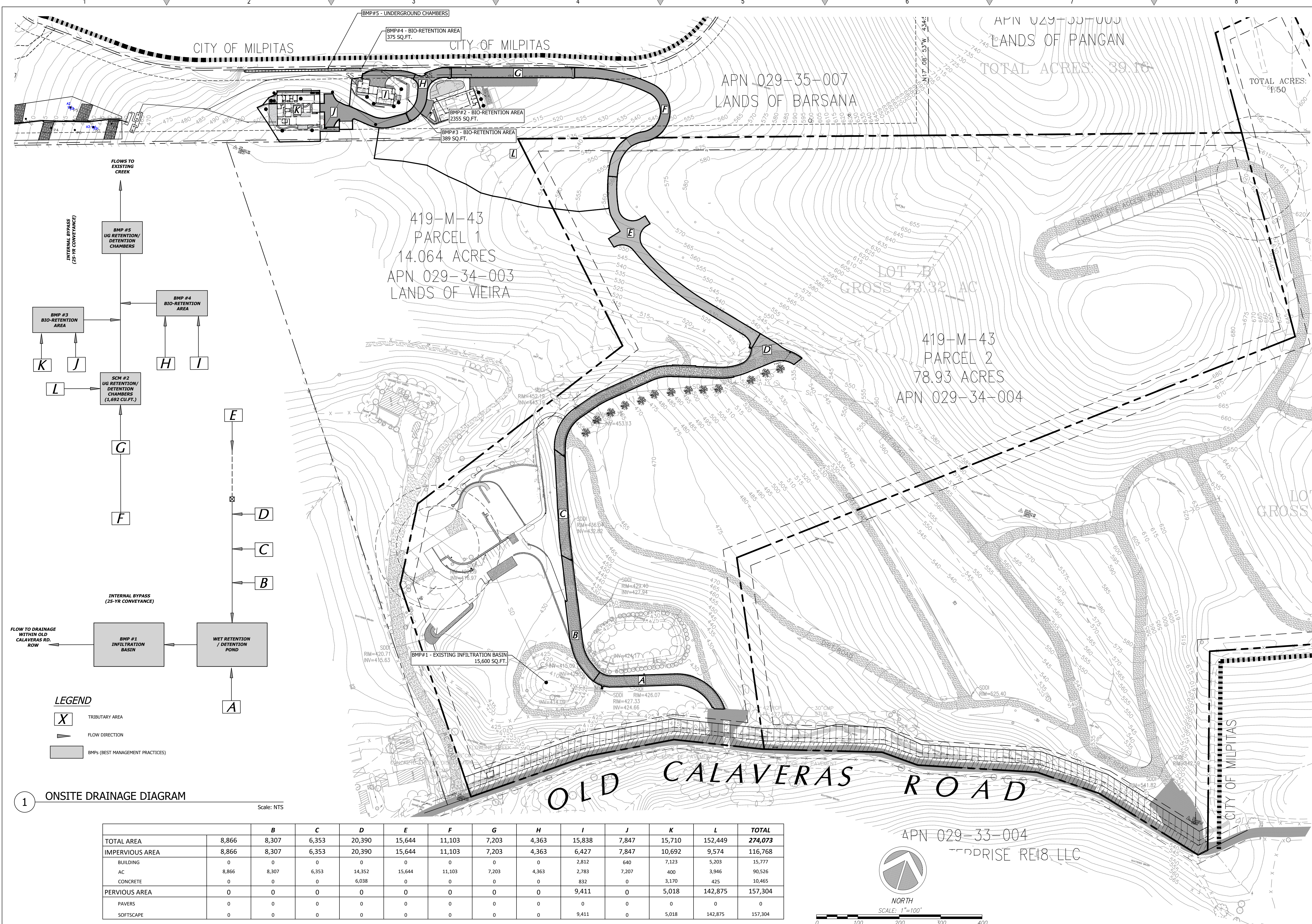
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Job: 3007.02

Sheet: C1.7

of 37 Sheets



1 ONSITE DRAINAGE DIAGRAM

Scale: NTS

		B	C	D	E	F	G	H	I	J	K	L	TOTAL
TOTAL AREA	8,866	8,307	6,353	20,390	15,644	11,103	7,203	4,363	15,838	7,847	15,710	152,449	274,073
IMPERVIOUS AREA	8,866	8,307	6,353	20,390	15,644	11,103	7,203	4,363	6,427	7,847	10,692	9,574	116,768
BUILDING	0	0	0	0	0	0	0	0	2,812	640	7,123	5,203	15,777
AC	8,866	8,307	6,353	14,352	15,644	11,103	7,203	4,363	2,783	7,207	400	3,946	90,526
CONCRETE	0	0	0	6,038	0	0	0	0	832	0	3,170	425	10,465
PERVIOUS AREA	0	0	0	0	0	0	0	0	9,411	0	5,018	142,875	157,304
PAVERS	0	0	0	0	0	0	0	0	0	0	0	0	0
SOFTSCAPE	0	0	0	0	0	0	0	0	9,411	0	5,018	142,875	157,304

REVISIONS

1	RESPONSE TO SCC COMMENTS 11/05/21	DD
2	RESPONSE TO SCC COMMENTS 03/16/23	DD
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TRIBUTARY AREA MAP

REGISTERED PROFESSIONAL ENGINEER

TODD R. CREMER

No. C 64561

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AUGUSTE COURT

APN: 029-35-007

Date: 09/27/23

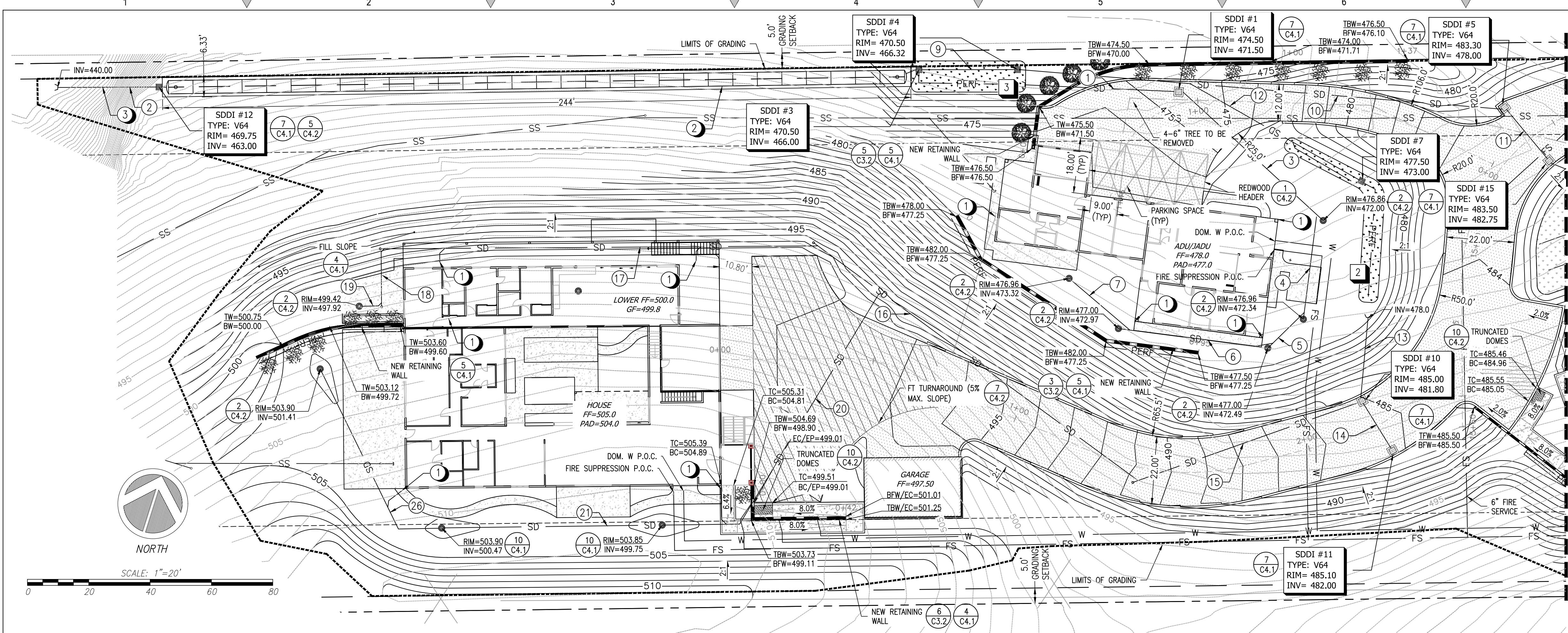
Scale: 1" = 100'

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Job: 3007.02

Sheet: C1.8

of 37 Sheets



BIO-RETENTION NOTES

- BIO-RETENTION (BMP #2)
2355 SQ. FT.
TOP OF SOIL EL. = 482.0
- BIO-RETENTION (BMP #3)
389 SQ. FT.
TOP OF SOIL EL. = 477.0
- BIO-RETENTION (BMP #4)
375 SQ. FT.
TOP OF SOIL EL. = 470.0

LEGEND

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

STORM DRAINAGE PIPE DATA

1. 49 LF OF 8" SDR-35 @ 3.1% SLOPE	16. 132 LF OF 6" SDR-35 @ 6.8% SLOPE
2. 32 LF OF 12" HDPE @ 62.5% SLOPE	17. 113 LF OF 6" SDR-35 @ 2.0% SLOPE
3. 61 LF OF 6" SDR-35 @ 0.8% SLOPE	18. 27 LF OF 6" SDR-35 @ 2.0% SLOPE
4. 34 LF OF 6" SDR-35 @ 1.0% SLOPE	19. 3 LF OF 6" SDR-35 @ 2.0% SLOPE
5. 15 LF OF 6" SDR-35 @ 1.0% SLOPE	20. 88 LF OF 6" SDR-35 @ 20.2% SLOPE
6. 48 LF OF 6" SDR-35 @ 1.0% SLOPE	21. 112 LF OF 6" SDR-35 @ 1.0% SLOPE
7. 26 LF OF 6" SDR-35 @ 1.3% SLOPE	22. 10 LF OF 6" SDR-35 @ 3.0% SLOPE
8. NA	23. 17 LF OF 6" SDR-35 @ 1.5% SLOPE
9. 30 LF OF 10" SDR-35 @ 1.0% SLOPE	24. 305 LF OF 6" SDR-35 @ 7.0% SLOPE
10. 157 LF OF 8" SDR-35 @ 7.4% SLOPE	25. 18 LF OF 6" SDR-35 @ 2.0% SLOPE
11. 39 LF OF 8" SDR-35 @ 1.2% SLOPE	26. 70 LF OF 6" SDR-35 @ 1.3% SLOPE
12. 63 LF OF 8" SDR-35 @ 19.8% SLOPE	27. 15 LF OF 6" SDR-35 @ 1.0% SLOPE
13. 26 LF OF 6" SDR-35 @ 14.7% SLOPE	28. 15 LF OF 6" SDR-35 @ 1.0% SLOPE
14. 18 LF OF 8" SDR-35 @ 1.1% SLOPE	29. 39 LF OF 6" SDR-35 @ 1.9% SLOPE
15. 90 LF OF 6" SDR-35 @ 4.4% SLOPE	

STORM DRAINAGE NOTES:

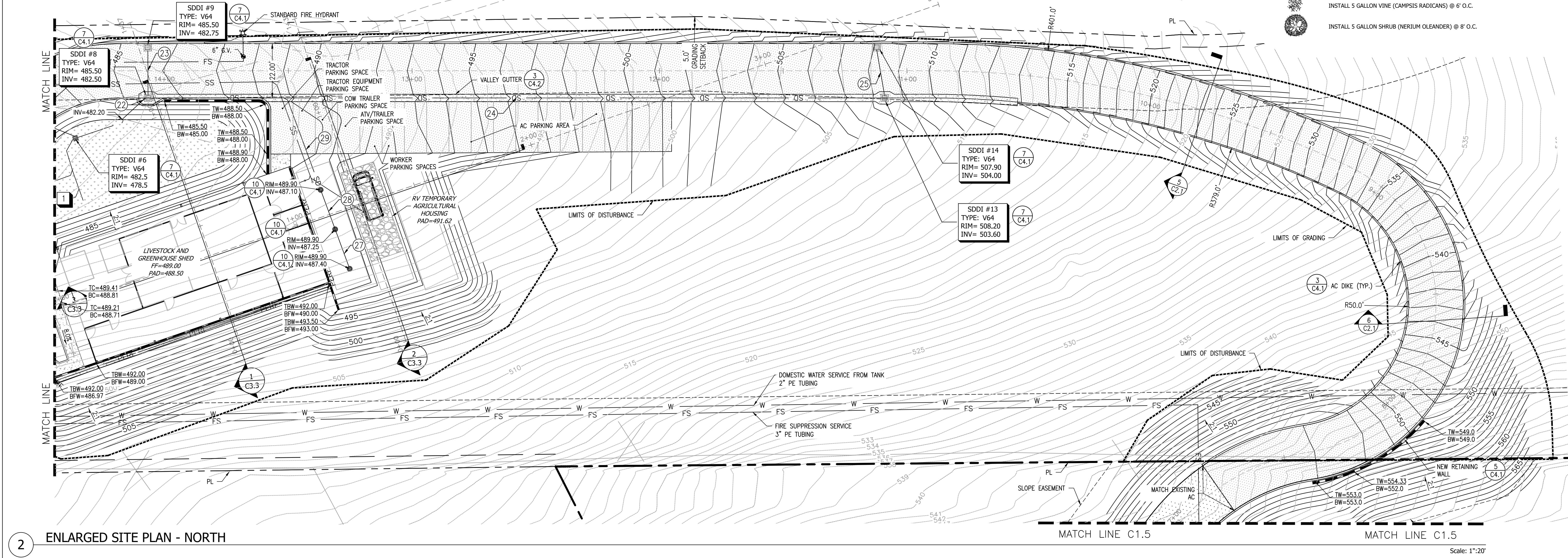
- CONNECT TO BUILDING DOWNSPOUT. CONTRACTOR SHALL CONFIRM EXACT LOCATION OF DOWNSPOUT.
- STORMWATER STORAGE CHAMBERS. AREA DIMENSIONS 244.0' X 6.33' SEE DETAIL 6, SHEET C4.2.
- ATTACH STORM DRAIN LINE TO EXISTING SLOPE WITH CALTRANS STANDARD TIE-DOWNS AND CONCRETE COLLARS

PARKING TABLE	
EMPLOYEE	2
CUSTOMER	14
ADA ACCESSIBLE	1
TRACTOR	1
TRACTOR EQUIPMENT	1
COW TRAILER	1
ATV/TRAILER	1
TOTAL	21

PLANTING LEGEND (WALL SCREENING)

- INSTALL 5 GALLON VINE (CAMPSIS RADICANS) @ 6' O.C.
- INSTALL 5 GALLON SHRUB (NERIUM OLEANDER) @ 8' O.C.

1 ENLARGED SITE PLAN - SOUTH



2 ENLARGED SITE PLAN - NORTH

REVISIONS

1	RESPONSE TO SCC COMMENTS 11/05/21	DD
2	RESPONSE TO SCC COMMENTS 03/16/23	DD
3	RESPONSE TO SCC COMMENTS 05/25/23	DD

ENLARGED SITE PLAN

REGISTERED PROFESSIONAL ENGINEER

TODD R. CREMER

No. C 64561

Exp. 6/30/25

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By: ERS/MS/MS/MS

BARSANA RESIDENCE

AUGUSTE COURT

APN: 029-35-007

Date: 09/27/23

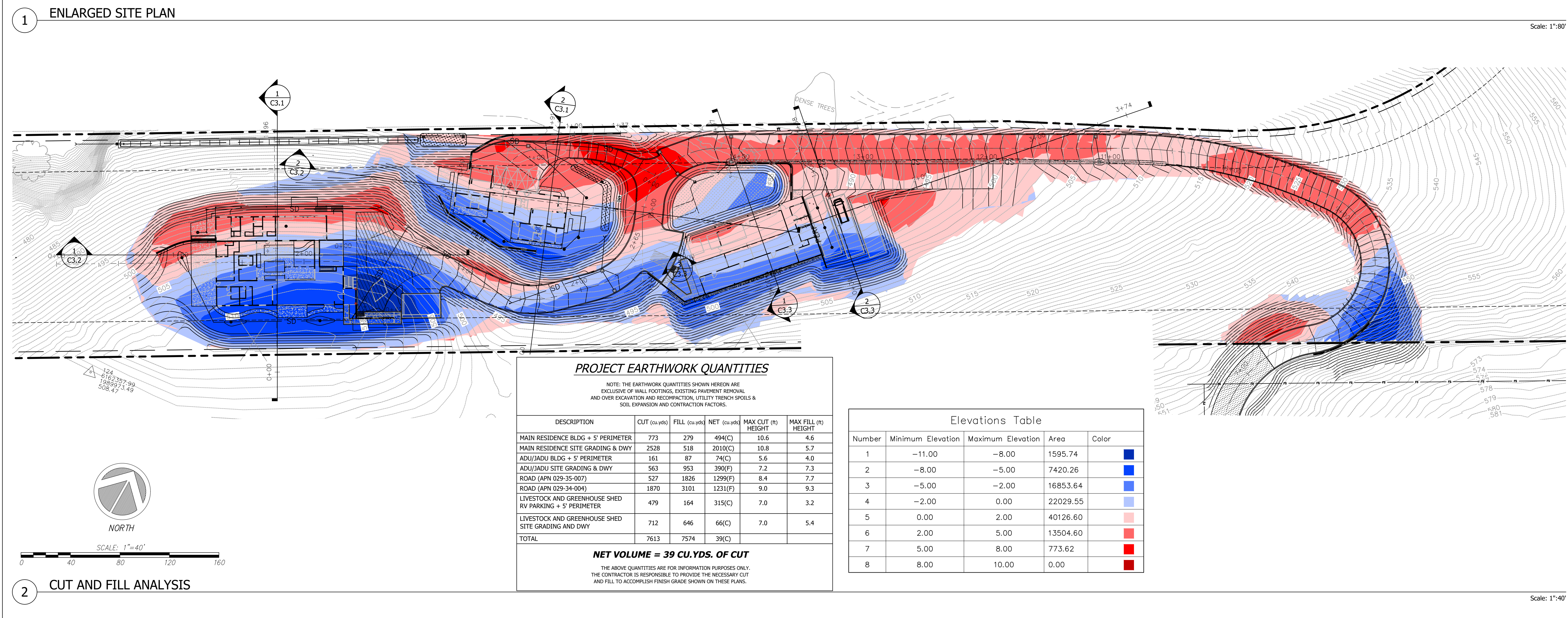
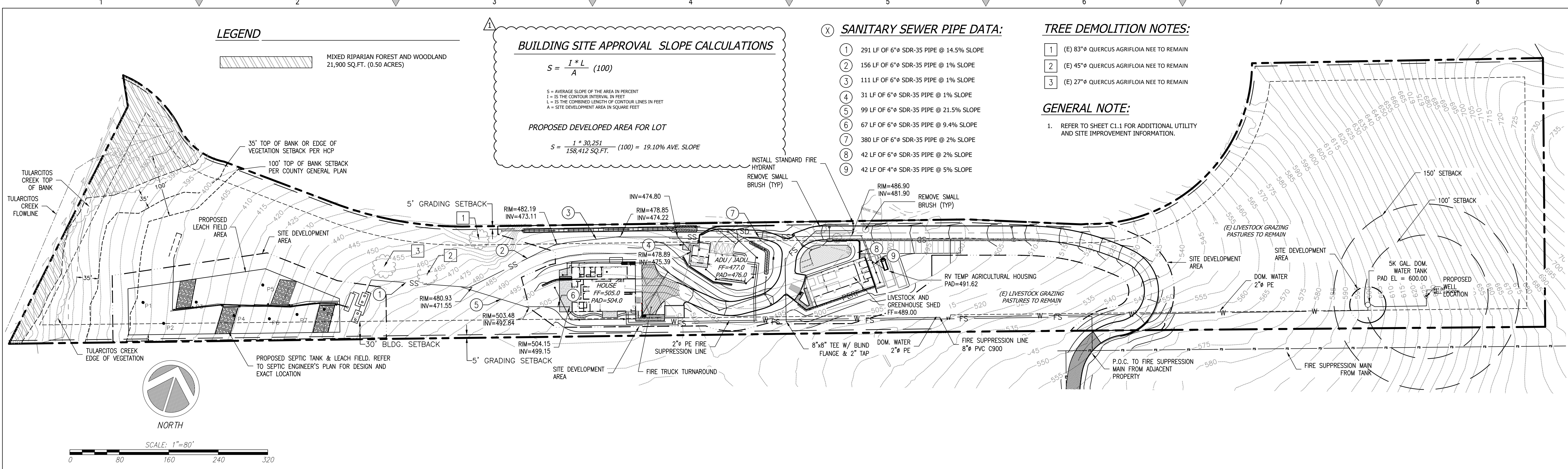
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REVISIONS

NO.	REVISIONS	BY
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2	RESPONSE TO SCC COMMENTS 03/16/23	DD
3	RESPONSE TO SCC COMMENTS 05/25/23	DD

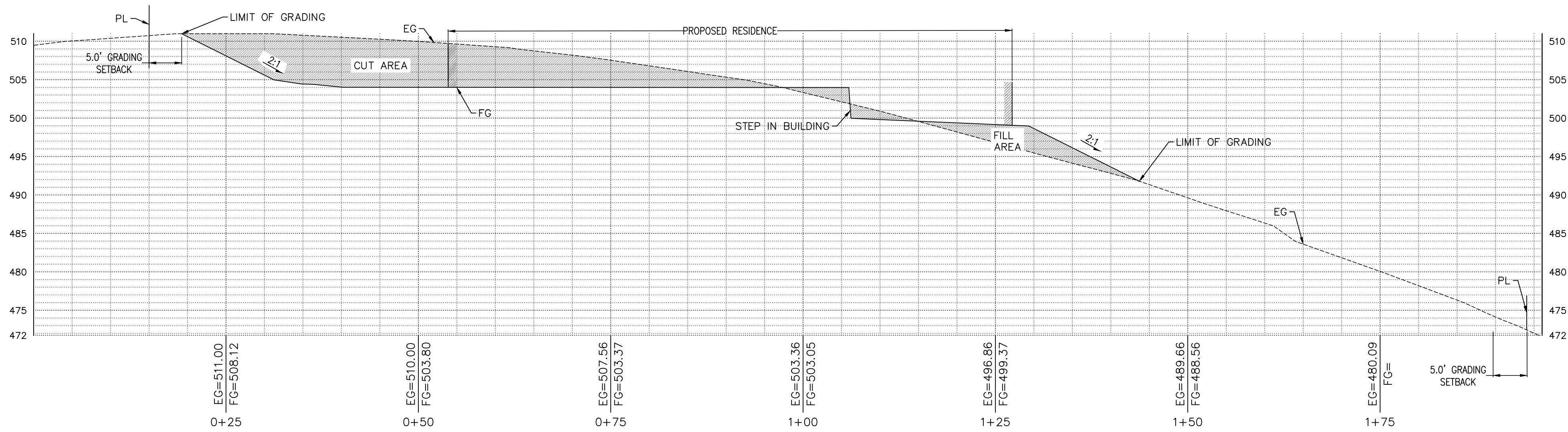
OVERALL SITE PLAN & CUT/FILL ANALYSIS

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

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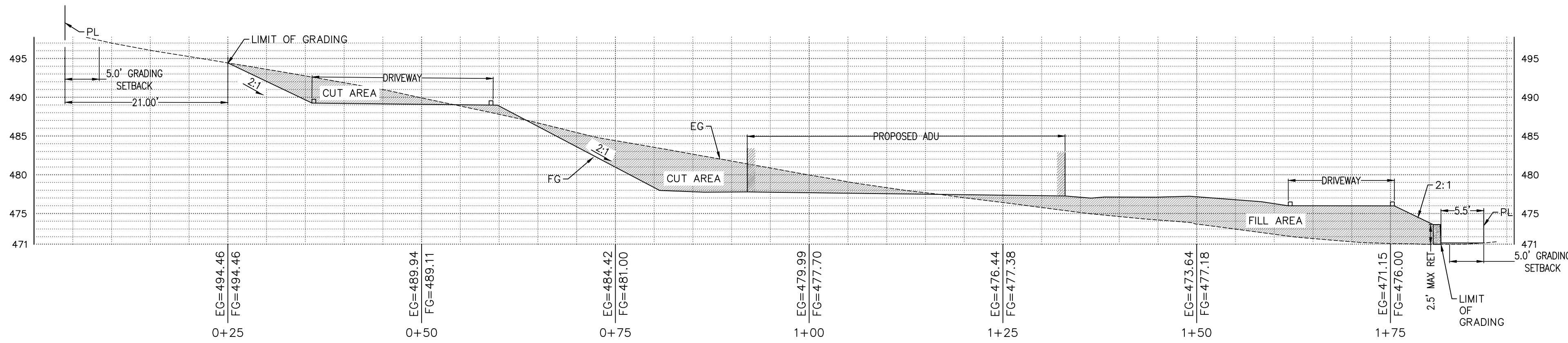
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APN: 029-35-007

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Job: 3007.02
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1 MAIN HOUSE SECTION

Scale: 1:10



2 ADU HOUSE SECTION

Scale: 1:10

REVISIONS		BY
1	RESPONSE TO SCC COMMENTS 11/05/21	DD
2	RESPONSE TO SCC COMMENTS 03/16/23	DD
3	RESPONSE TO SCC COMMENTS 05/25/23	DD

CUT/FILL SECTIONS

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

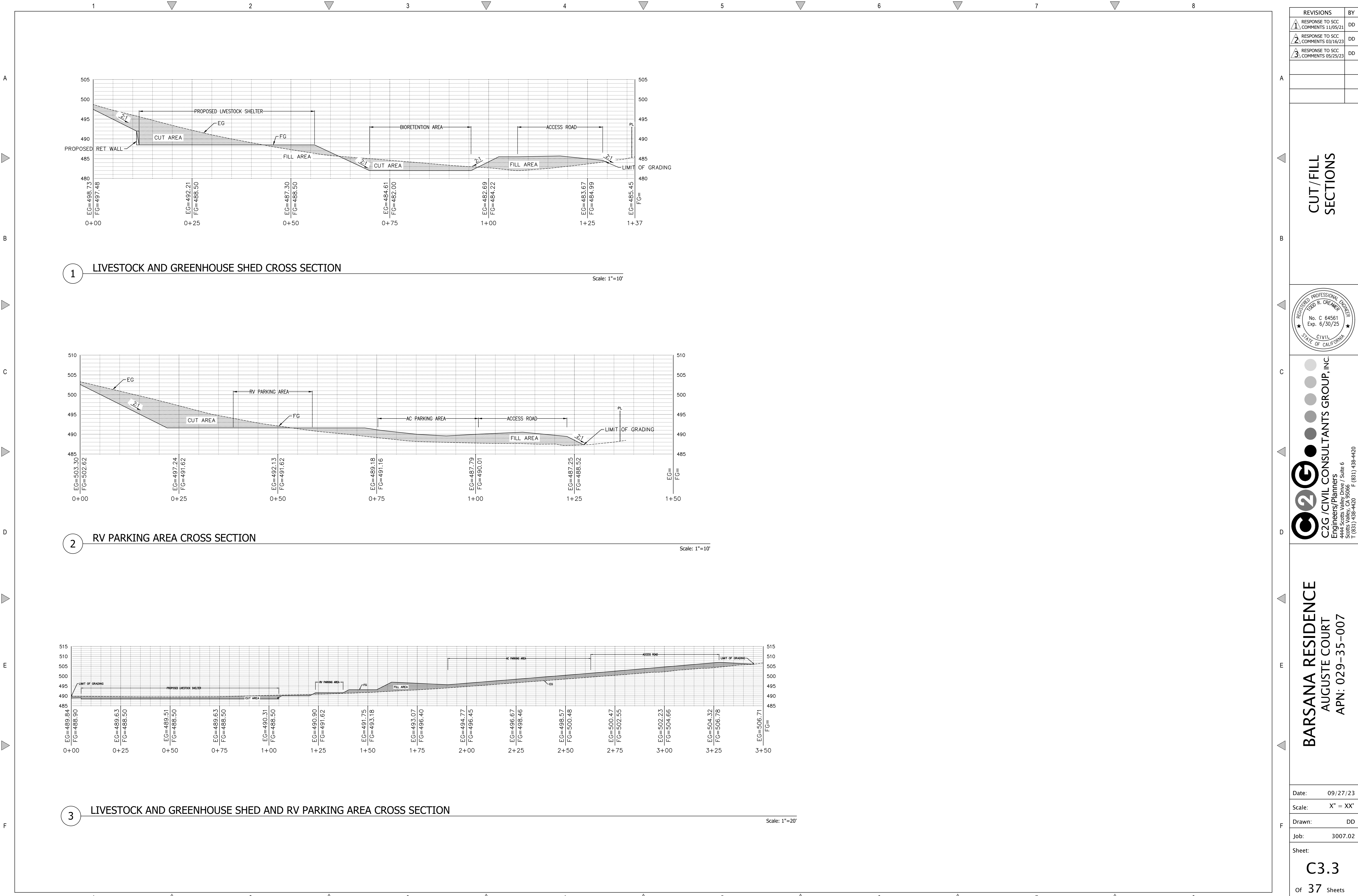
C2G CIVIL CONSULTANTS GROUP, INC.

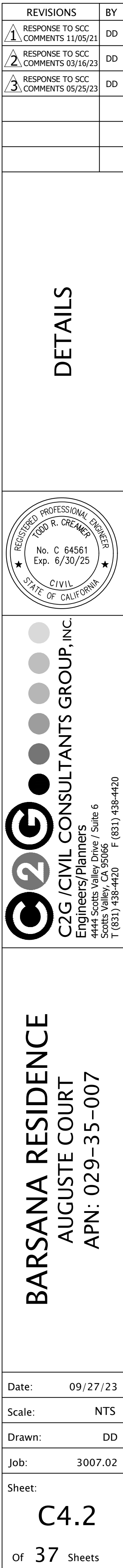
Engineers/Planners
4400 Jamboree Road, Suite 6
Scotts Valley, CA 95066
T (831) 438-4420 F (831) 438-4420

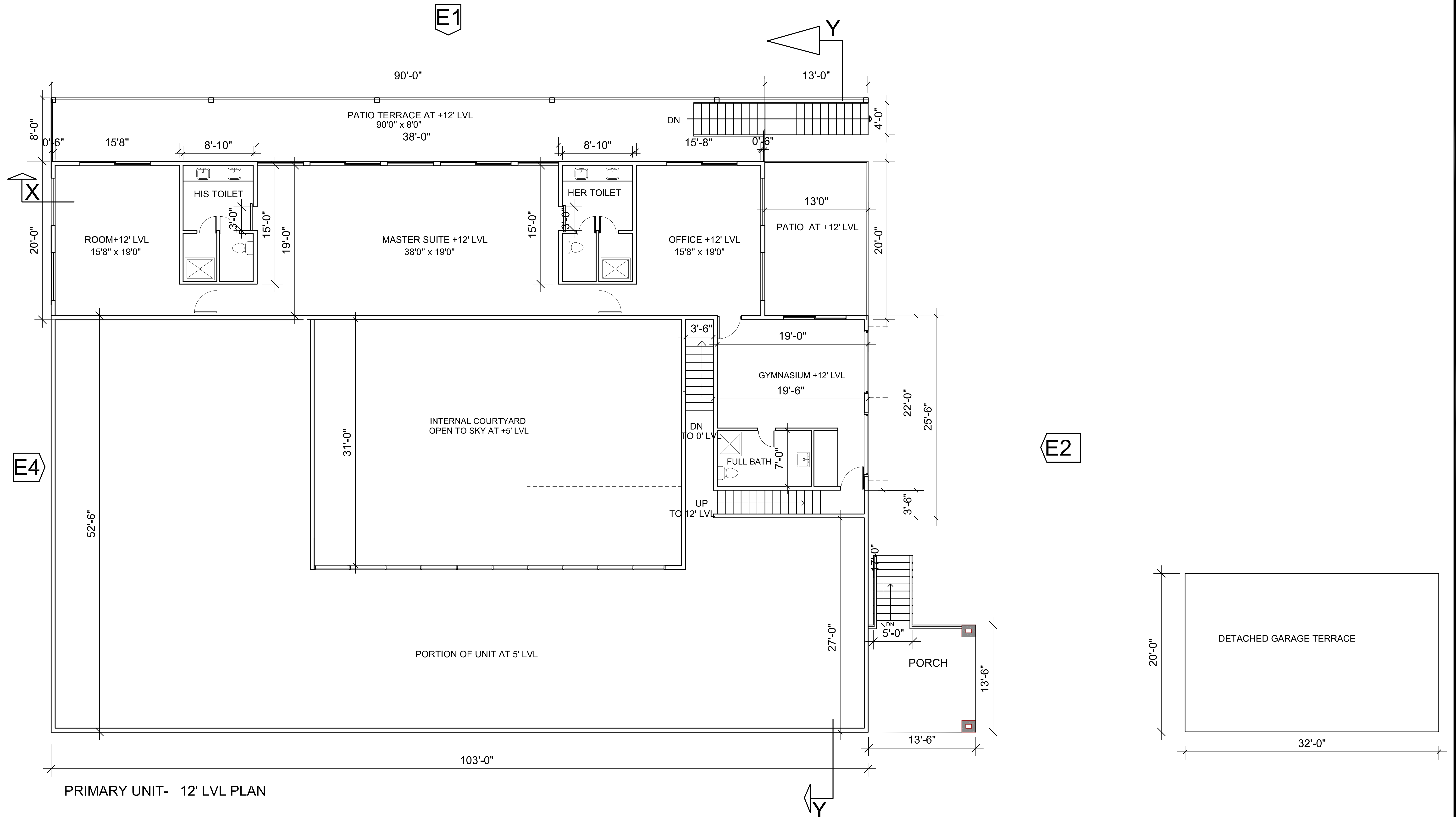
BARSANA RESIDENCE
AUGUSTE COURT
APN: 029-35-007

Date: 09/27/23
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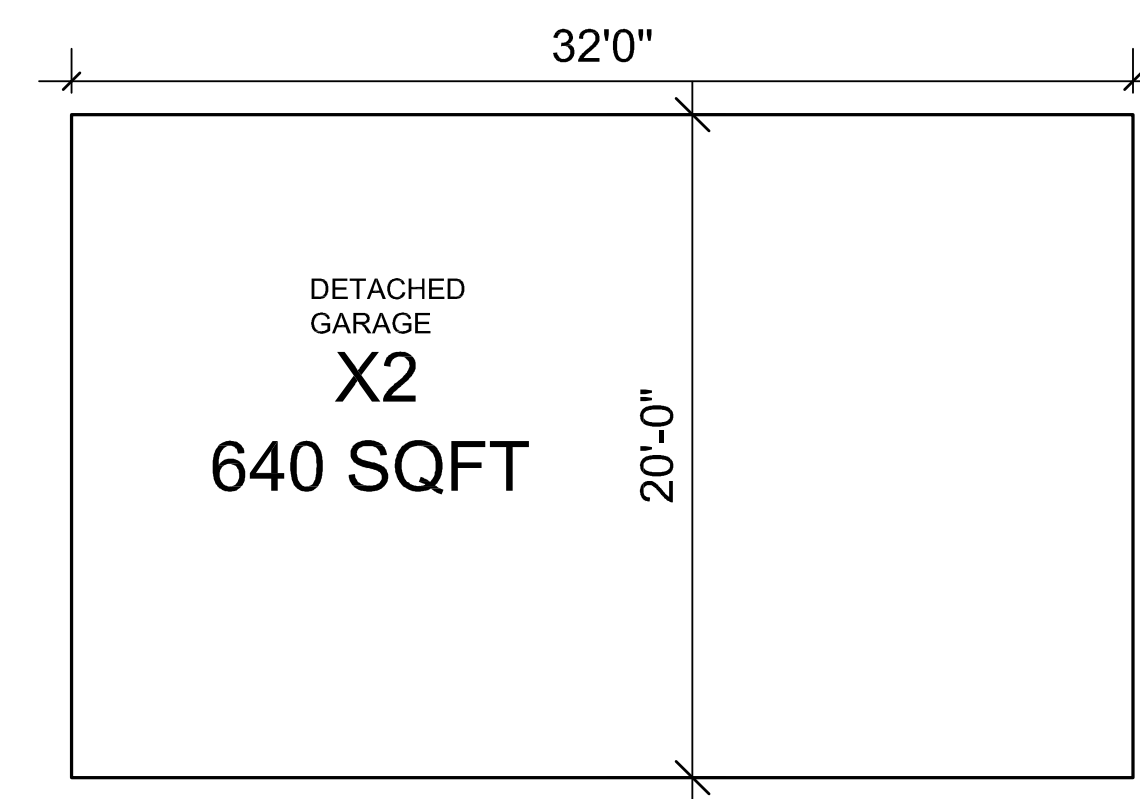
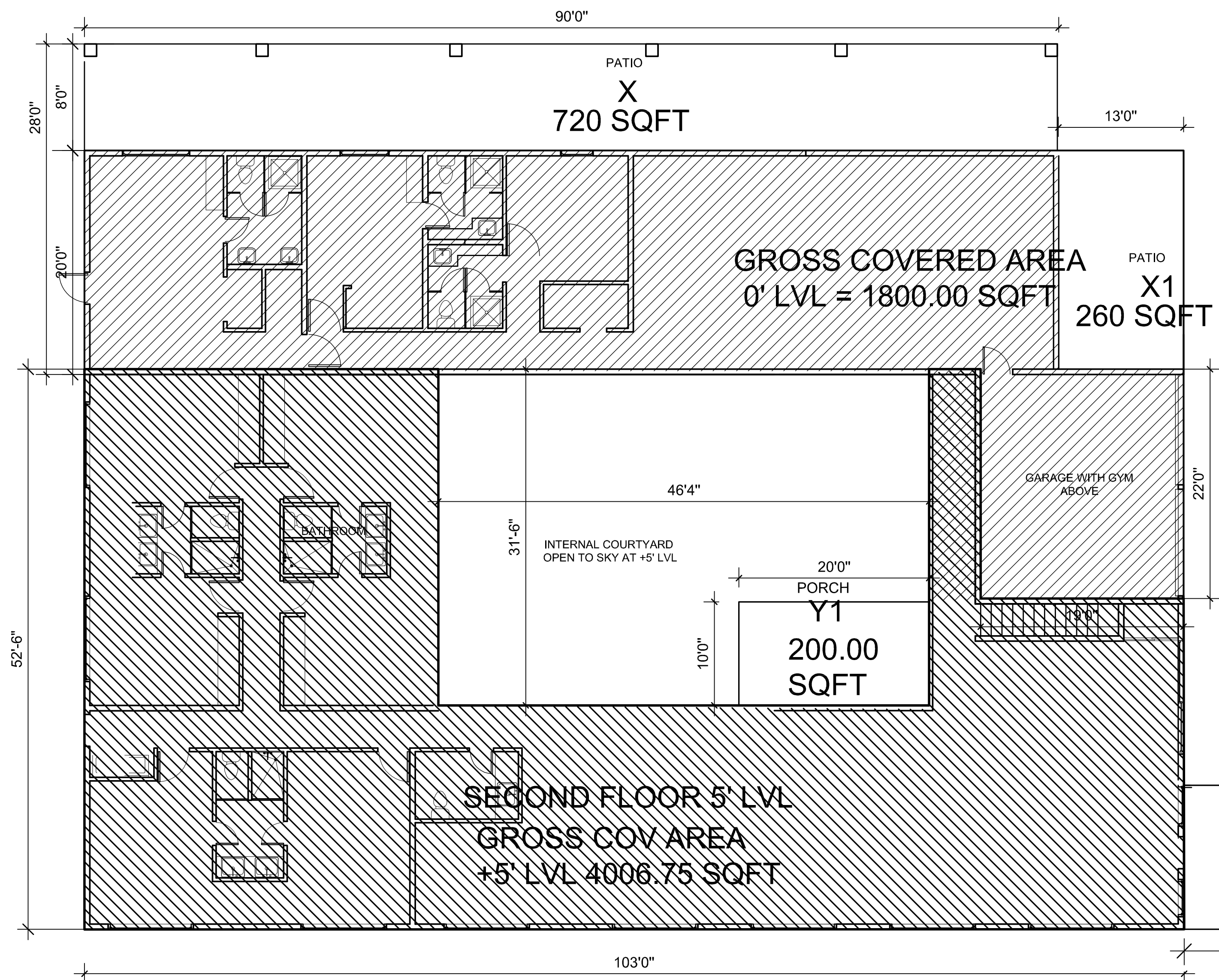
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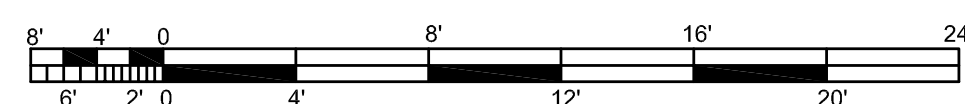
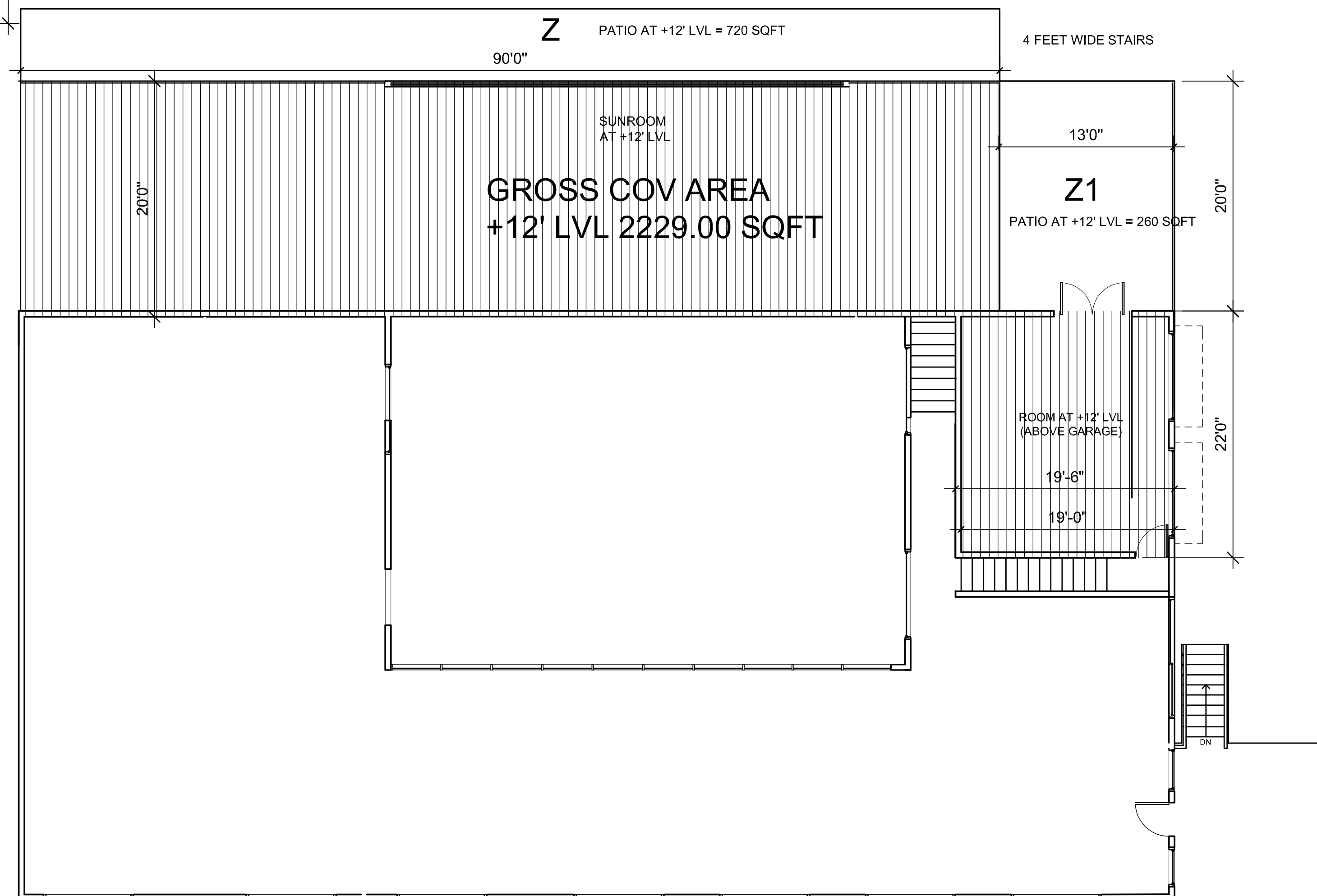
BARSANA 1 AUGUSTE CT, MILPITAS,CA 95035	AJAY GOYAL 748 BLUE STONE CIRCLE, FOLSOM CA 95630 916-294 - 5337	DRAWN BY : NEHA	DATE: 11-17- 2023 SCALE: 1:100	LOCATION: APN 029-35-007	SUBJECT: PRIMARY RESIDENCE 12' LVL PLAN	DRAWING NO. : P02
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PRIMARY RESIDENCE- AREA ANALYSIS OF 12' LVL PLAN

GROSS AREA OF +12' LVL PLAN =1409.25 SQFT
 COVERED AREA OF PATIO Z = 720 SQFT
 COVERED AREA OF PATIO Z1= 260 SQFT

AREA TABULATION		
LVL	BUILDING PORTION	GROSS AREA
0'	ENTERTAINMENT RM,BED ROOM,KITCHEN,GARAGE	2218.00 SQFT
5'	LIVING RM,BED ROOMS,TOILET,STAIRS	3530.00 SQFT
12'	MASTER SUITE, GYMNASIUM	2229.00 SQFT
		7974.00 SQFT



BARSANA
 1 AUGUSTE CT, MILPITAS,CA 95035

AJAY GOYAL
 748 BLUE STONE CIRCLE, FOLSOM CA 95630 | 916-294 - 5337

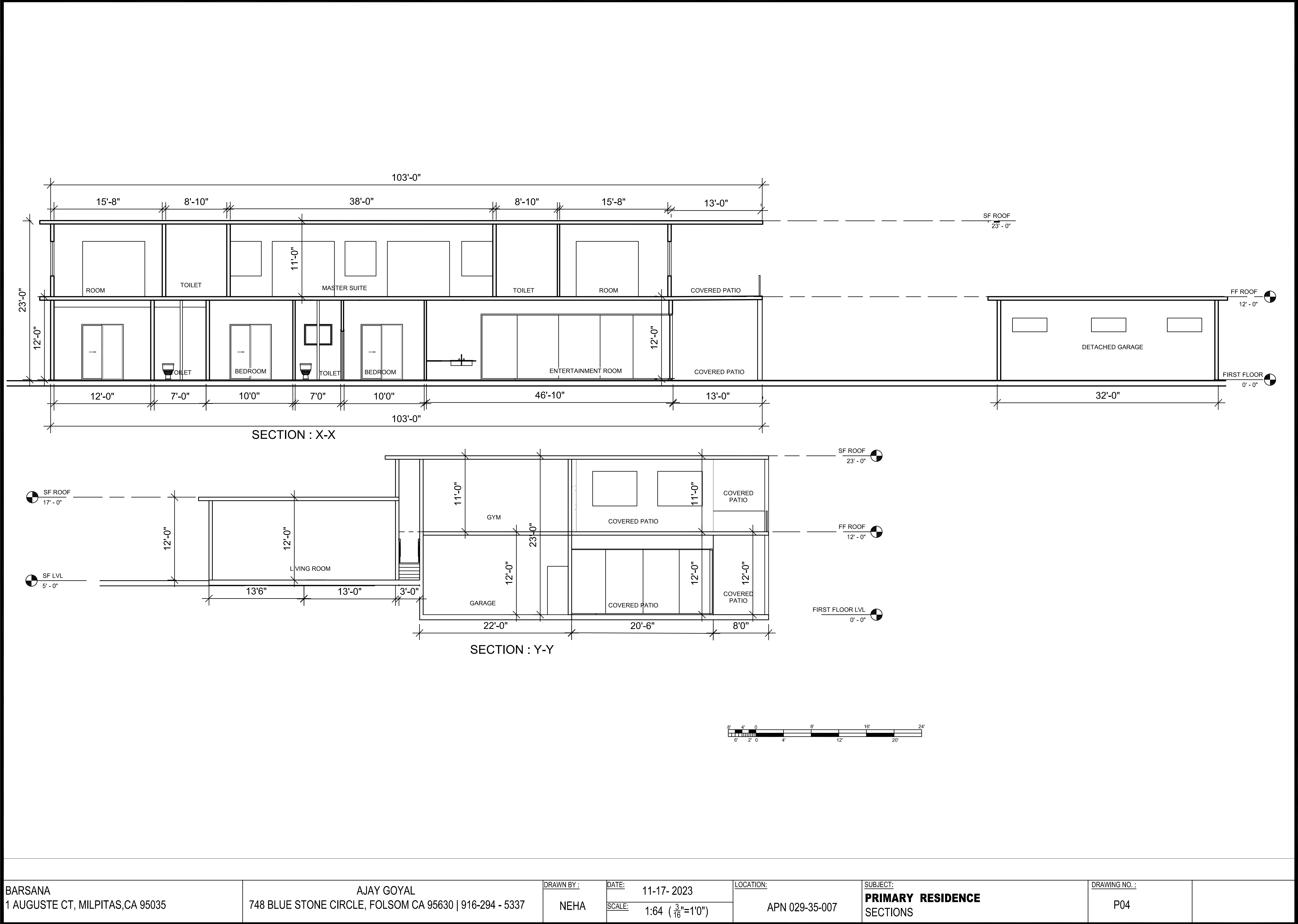
DRAWN BY :
 NEHA

DATE: 11-17- 2023
 SCALE: 1:100

LOCATION:
 APN 029-35-007

SUBJECT:
PRIMARY RESIDENCE
 AREA CALCULATION

DRAWING NO. :
 P03



BARSANA 1 AUGUSTE CT, MILPITAS,CA 95035	AJAY GOYAL 748 BLUE STONE CIRCLE, FOLSOM CA 95630 916-294 - 5337	DRAWN BY : NEHA	DATE: 11-17- 2023 SCALE: 1:64 ($\frac{3}{16}$ "=1'0")	LOCATION: APN 029-35-007	SUBJECT: PRIMARY RESIDENCE SECTIONS	DRAWING NO. : P04	
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ELEVATION E1



ELEVATION E2



ELEVATION E3

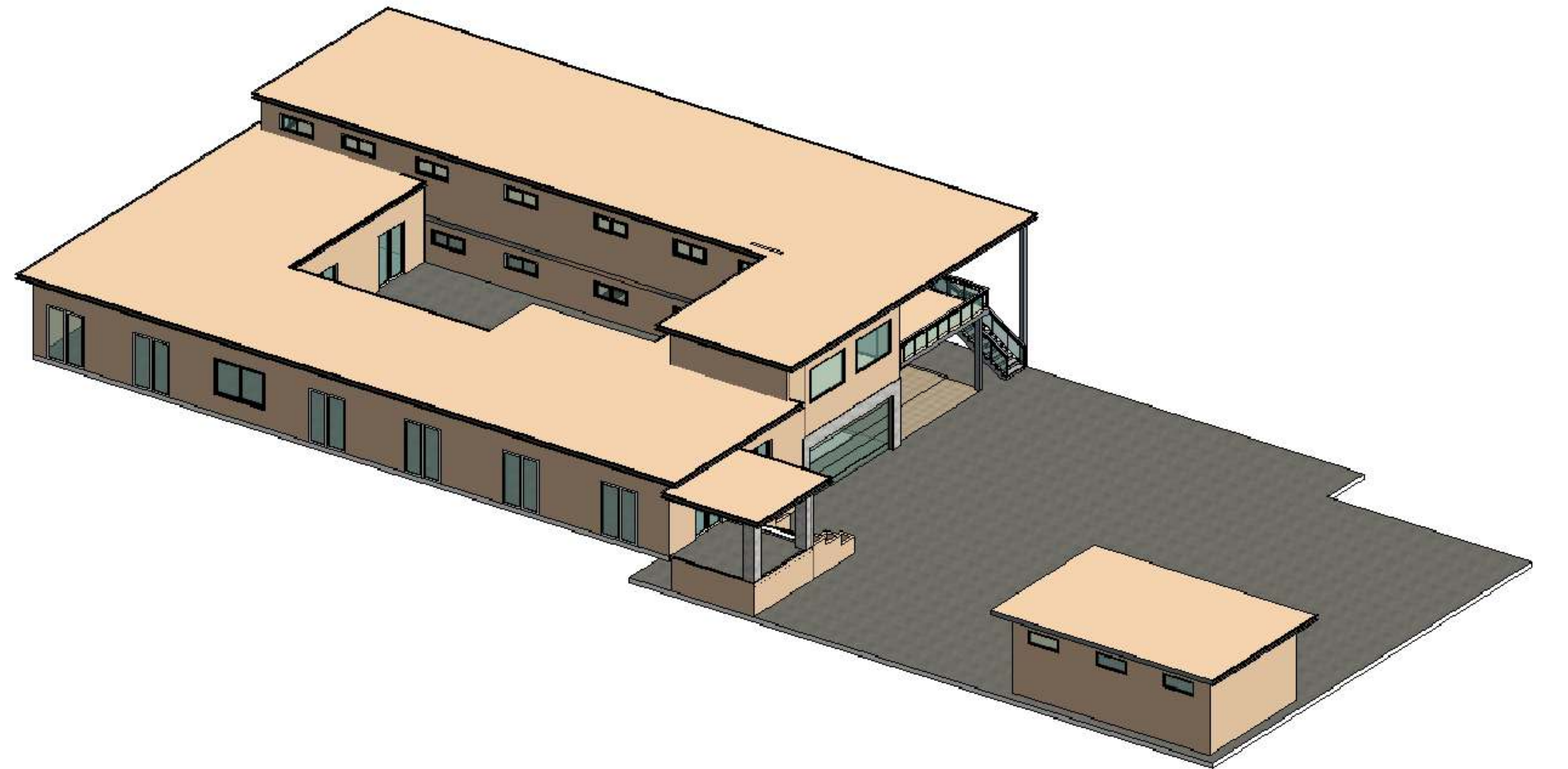


ELEVATION E4

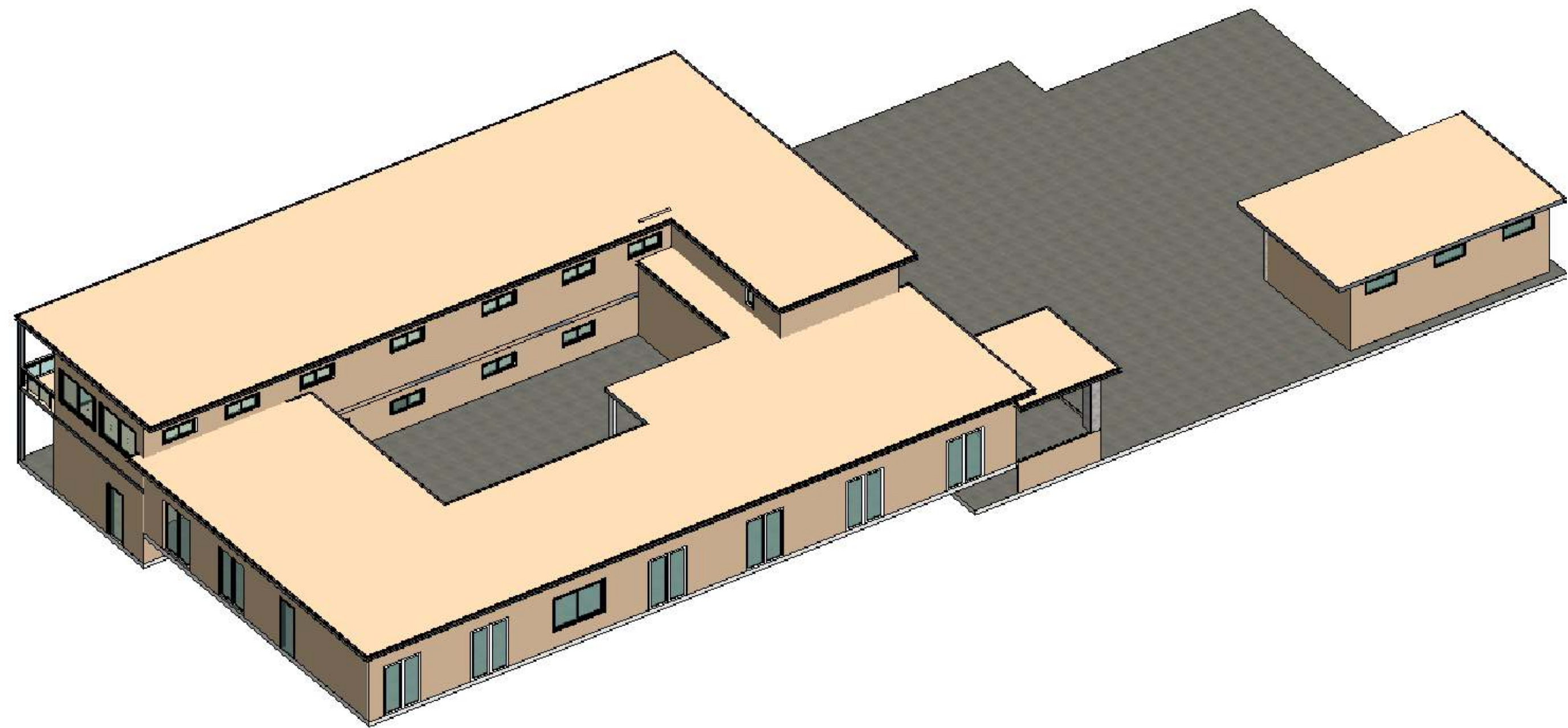
COLOR AND MATERIAL PALETTE				
WALL CLADDING	METAL ROOFING, GUTTER, EAVES	ENTRANCE WALL	GARAGE DOOR	DOOR, WINDOW, FRAME, TRIMS
PALM DESERT TAN (LRV 43.07)	WOLF GREY (LRV 19.89)	MSI ALASKA GREY (LRV 44.42)	WOOD FINISH (LRV 35.71)	WHITE (LRV 95.2)



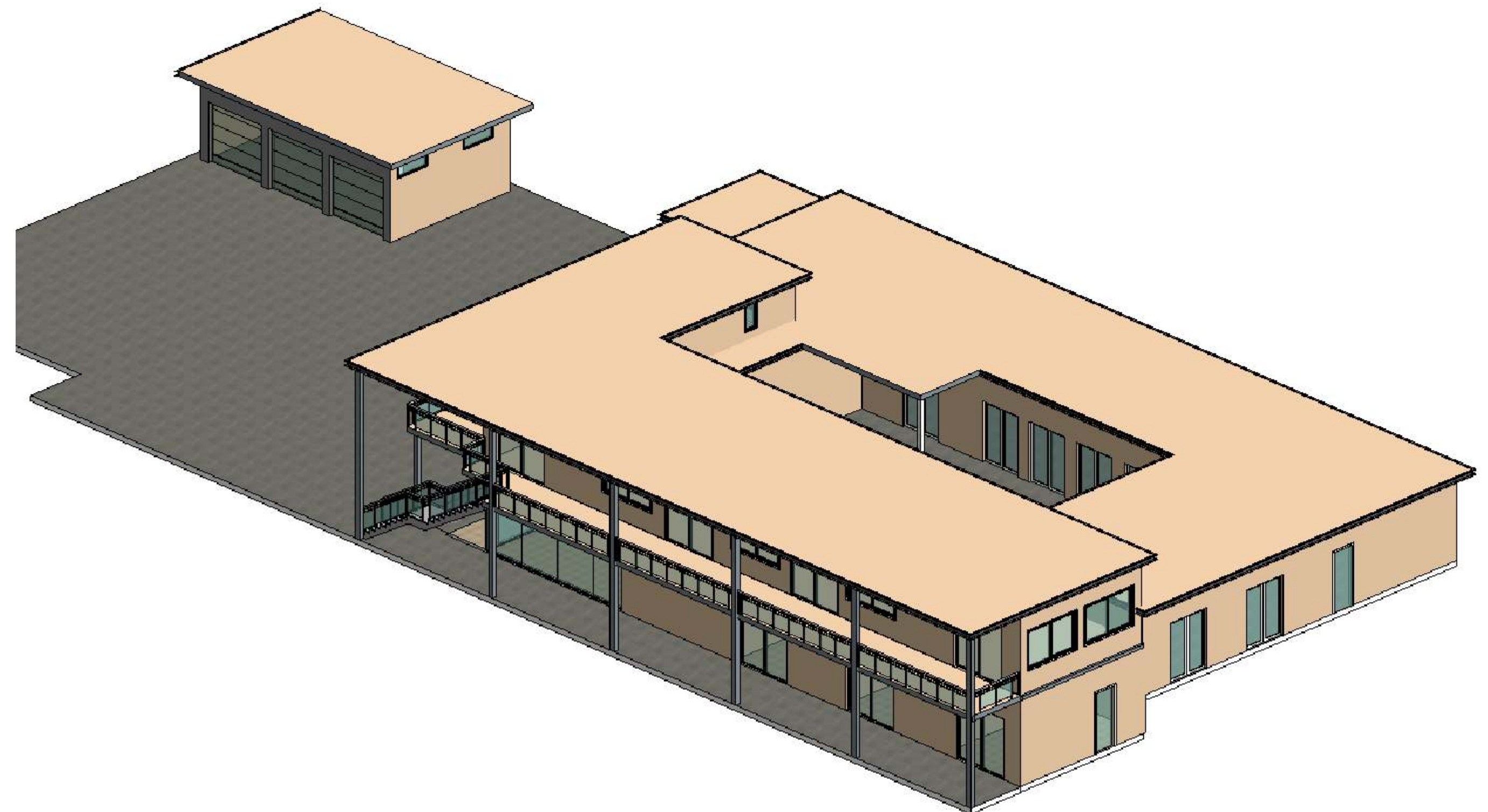
VIEW 1



VIEW 2



VIEW 3



VIEW 4

A6

A7

BARSANA
1 AUGUSTE CT, MILPITAS, CA 95035

AJAY GOYAL
748 BLUE STONE CIRCLE, FOLSOM CA 95630 | 916-294 - 5337

DRAWN BY :
NEHA

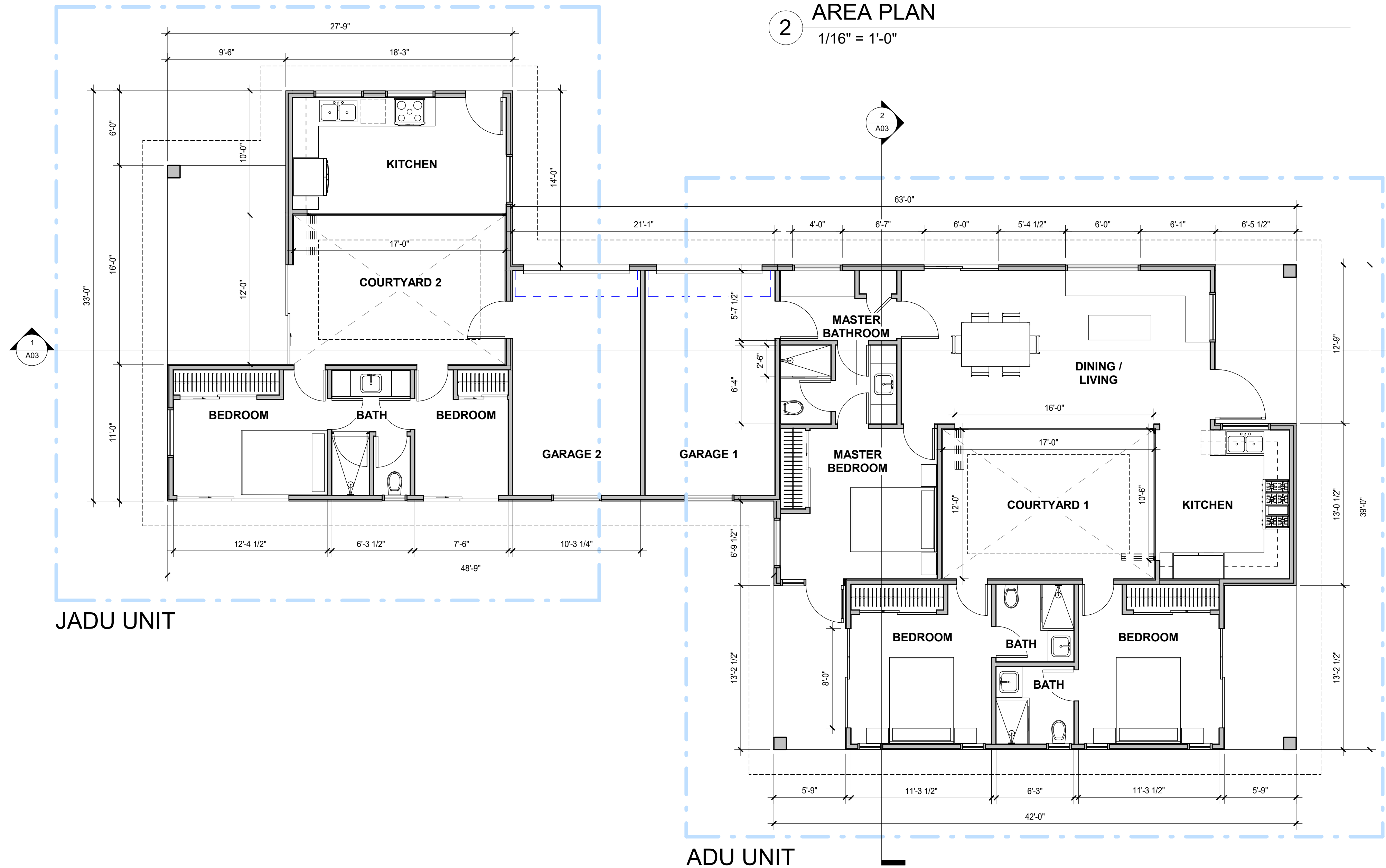
DATE: 11-17- 2023
SCALE: 1:100

LOCATION:
APN 029-35-007

SUBJECT:
PRIMARY RESIDENCE
VIEWS

DRAWING NO. :
P06

P1



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

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

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

COVERED & PARTIALLY ENCLOSED AREA SUMMARY	
ADU PATIO 1:	82 SF
ADU PATIO 2:	76 SF
ADU PATIO 3:	76 SF
ADU TOTAL:	234 SF
JADU PATIO 4:	152 SF
GRAND TOTAL:	386 SF

GARAGE AREA	
GARAGE 1&2:	400 SF

MATERIALS

NOTE: 144 SF OF PLASTER REQUIRES A CONTROL JOINT	
	STANDING SEAM ROOF METAL - SLATE GRAY, LVR 18.76
	DOOR & WINDOW FRAMES, RAILINGS, TRIM WHITE, LVR 99.2
	EXTERIOR WALLS PLASTER - PALM DESERT TAN, LVR 43.07
	ARCHITECTURAL ACCENTS STONE - MSI ALASKA GREY, LRV 44.42



BARSANA RESIDENCE - ADU & JADU

1 AUGUSTE CT
MILPITAS, CA 95035

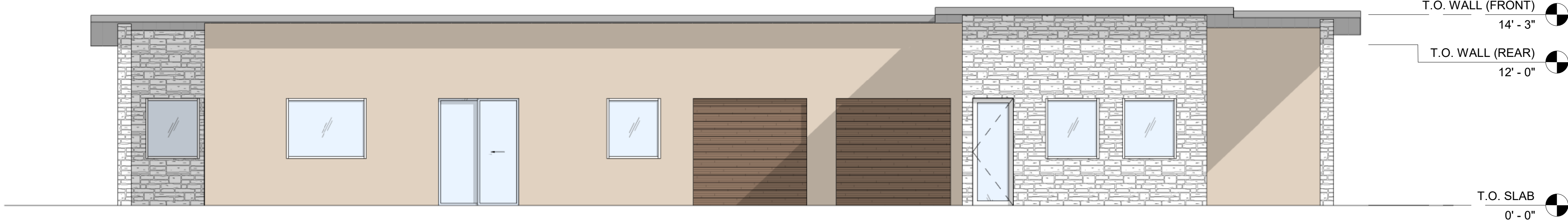
APN 029-35-007

MILESTONE / REVISION	
DATE	REMARKS

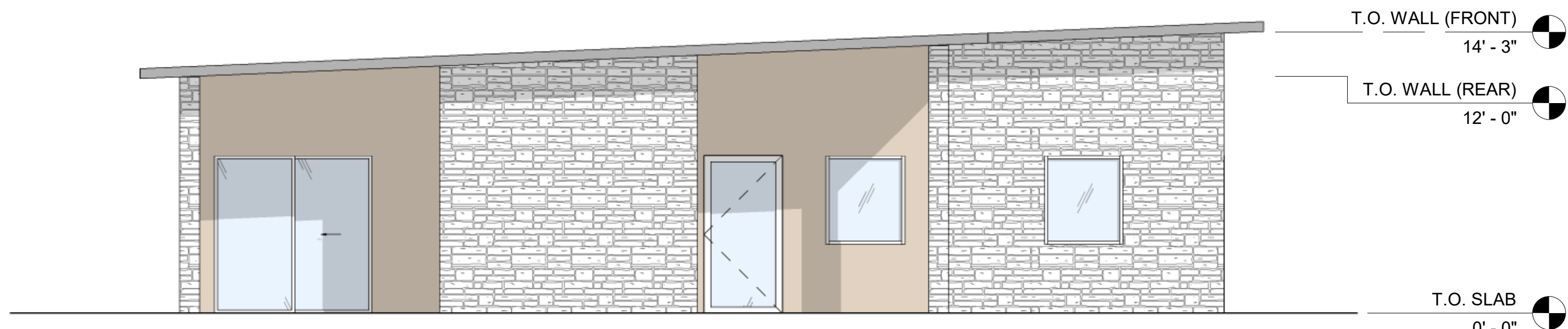
DATE: 2/28/2024

FLOOR PLAN

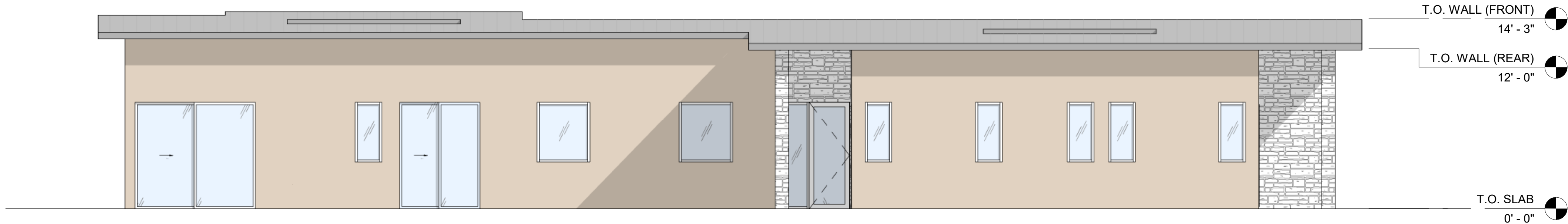
SHEET
A01



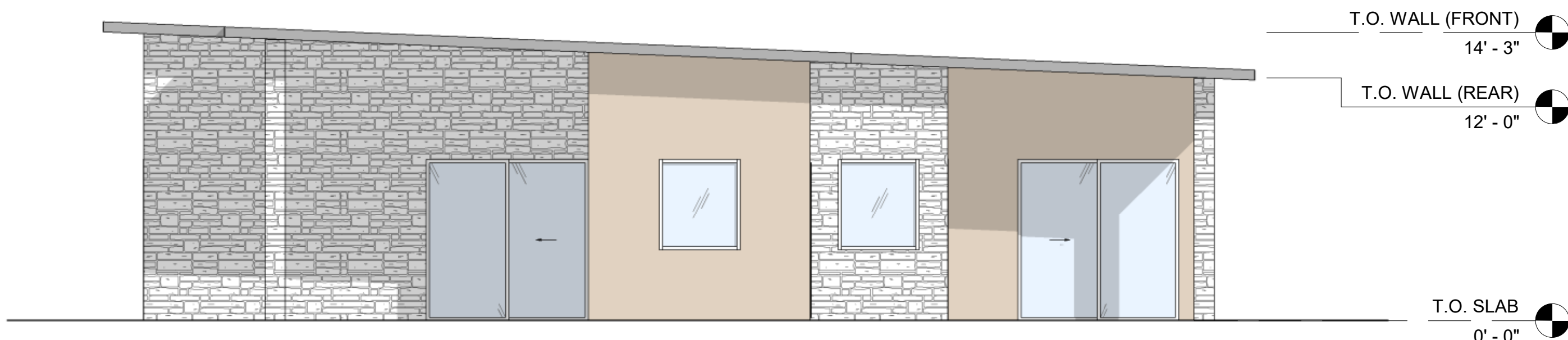
1 North
3/16" = 1'-0"



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



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



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

MATERIALS

NOTE: 144 SF OF PLASTER
REQUIRES A CONTROL JOINT

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

JAG

JOHNSTON ARCHITECTURE GROUP

MATTHEW.JOHNSTON.AA@GMAIL.COM

BARSANA RESIDENCE - ADU & JADU

1 AUGUSTE CT
MILPITAS, CA 95035

APN 029-35-007

MILESTONE / REVISION	
DATE	REMARKS

DATE: 2/28/2024

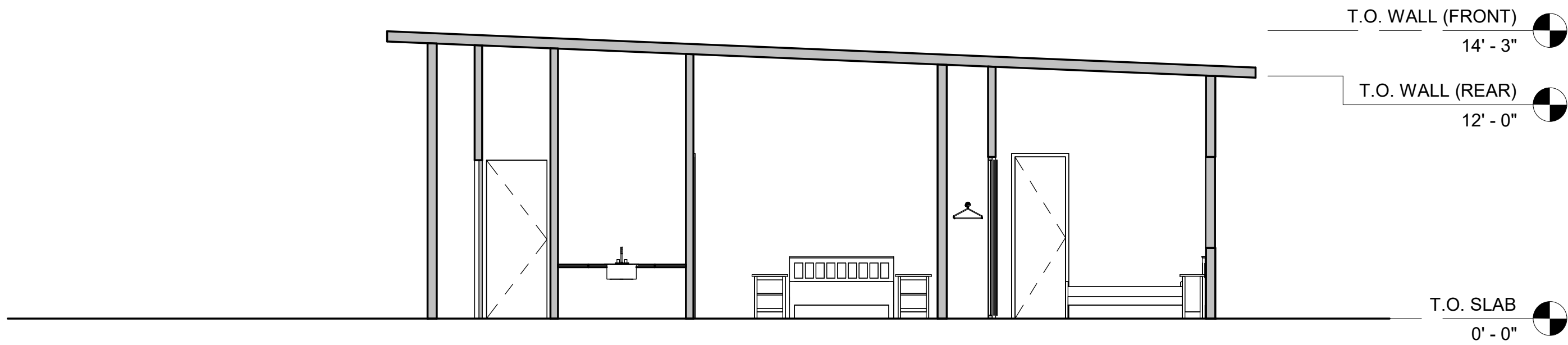
ELEVATIONS

SHEET

A02



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



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

MATERIALS

NOTE: 144 SF OF PLASTER REQUIRES A CONTROL JOINT	
	STANDING SEAM ROOF METAL - SLATE GRAY, LVR 18.76
	DOOR & WINDOW FRAMES, RAILINGS, TRIM WHITE, LVR 99.2
	EXTERIOR WALLS PLASTER - PALM DESERT TAN, LVR 43.07
	ARCHITECTURAL ACCENTS STONE - MSI ALASKA GREY, LRV 44.42



JOHNSTON ARCHITECTURE GROUP
MATTHEW.JOHNSTON.AA@GMAIL.COM

BARSANA RESIDENCE - ADU & JADU

1 AUGUSTE CT
MILPITAS, CA 95035

APN 029-35-007

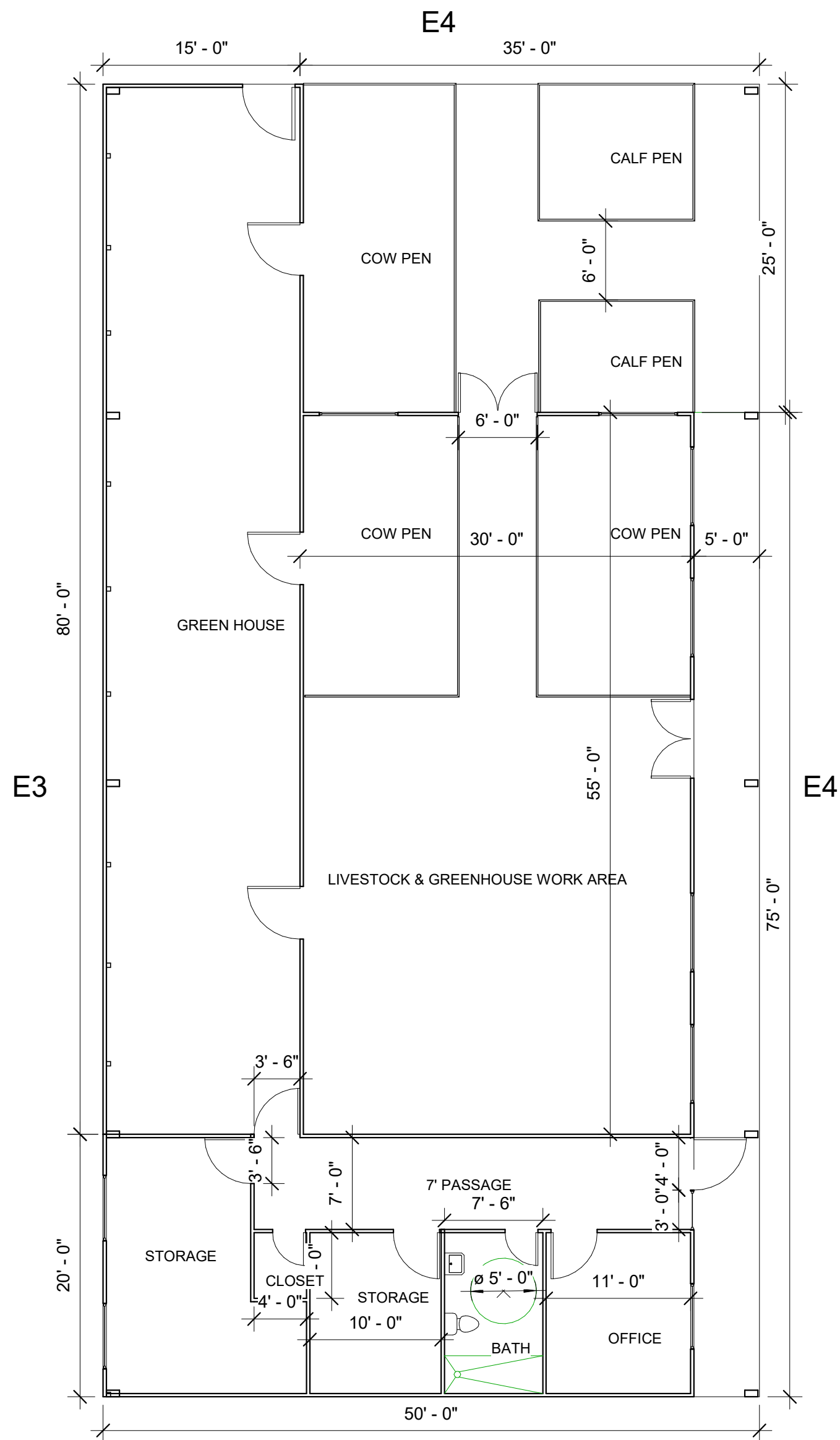
MILESTONE / REVISION	
DATE	REMARKS

DATE: 2/28/2024

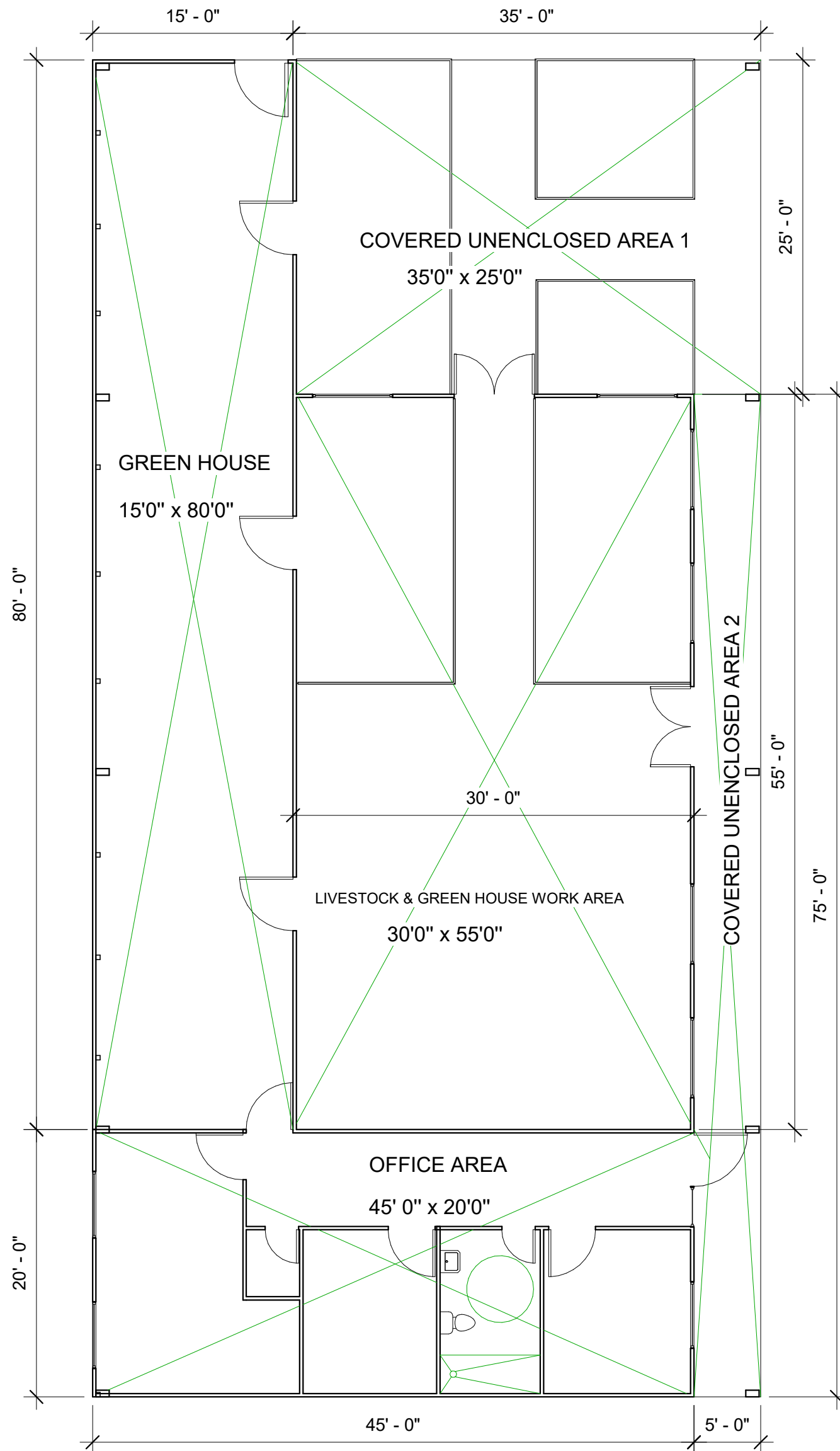
SECTIONS

SHEET

A03

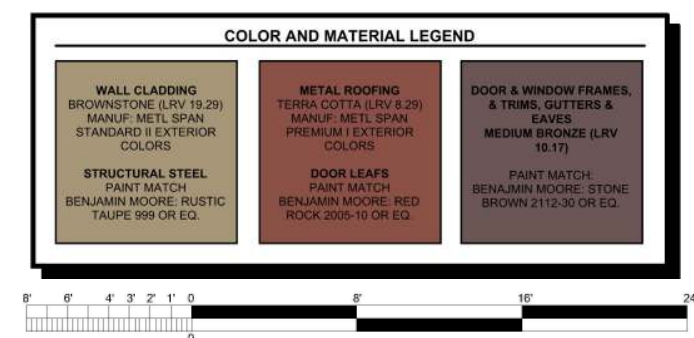


1 FIRST FLOOR
1/8" = 1'-0"



2 AREA PLAN
1/8" = 1'-0"

GROSS FLOOR AREA MAIN BUILDING:	
LIVESTOCK & GREEN HOUSE WORK AREA	= 55 X 30 = 1,650 SQFT
OFFICE AREA	= 45 X 20 = 900 SQFT
TOTAL GROSS COVERED AREA	= 2550 SQFT
GROSS FLOOR AREA GREEN HOUSE	
	= 80X15= 1,200 SQFT
COVERED AREA UNENCLOSED PORTION:	
COVERED UNENCLOSED AREA 1	= 35 X 25 = 875 SQFT
COVERED UNENCLOSED AREA 2	= 5 X 75 = 375 SQFT
TOTAL COVERED UNENCLOSED AREA	= 1,250 SQFT



ARCHITECT:
AJAY GOEL
748 BLUE STONE CIRCLE
FOLSOM, CA 95630
916-294-5337

PROJECT TITLE:
BARSANA RESIDENCE
AUGUSTE COURT | APN 029-35-007
MILPITAS, CA 95035
CHECK BY: VARUN

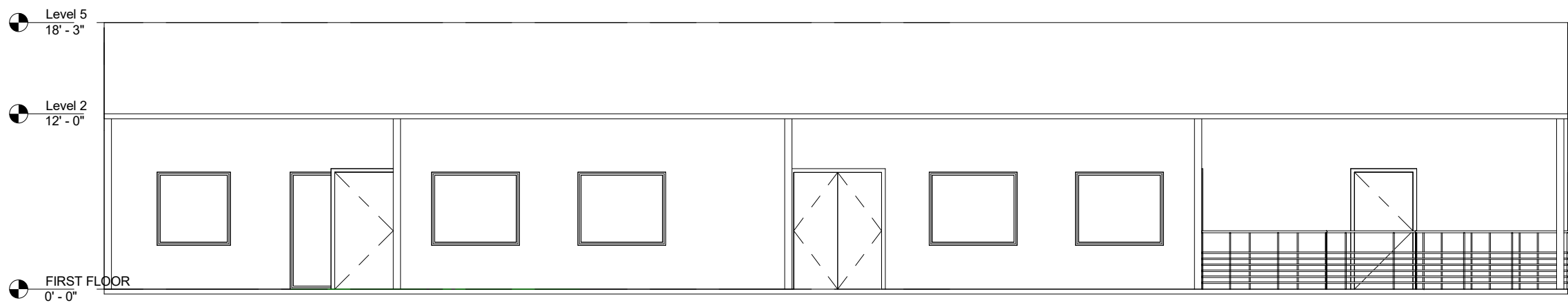
SUBJECT:
LIVESTOCK &
GREEN HOUSE
SHED

PLAN
AREA PLAN

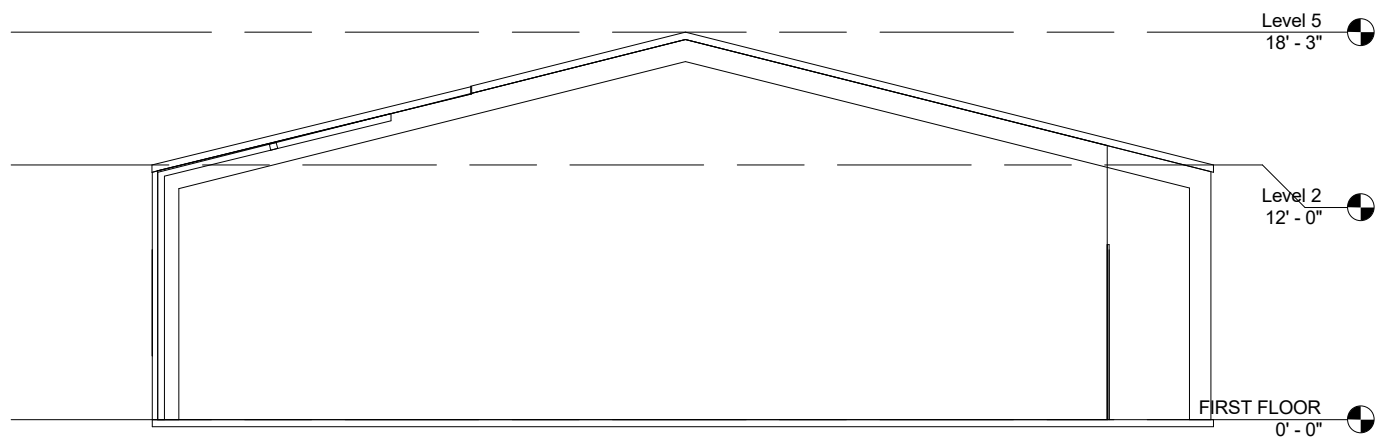
LSS 01

SCALE: 1"=8'

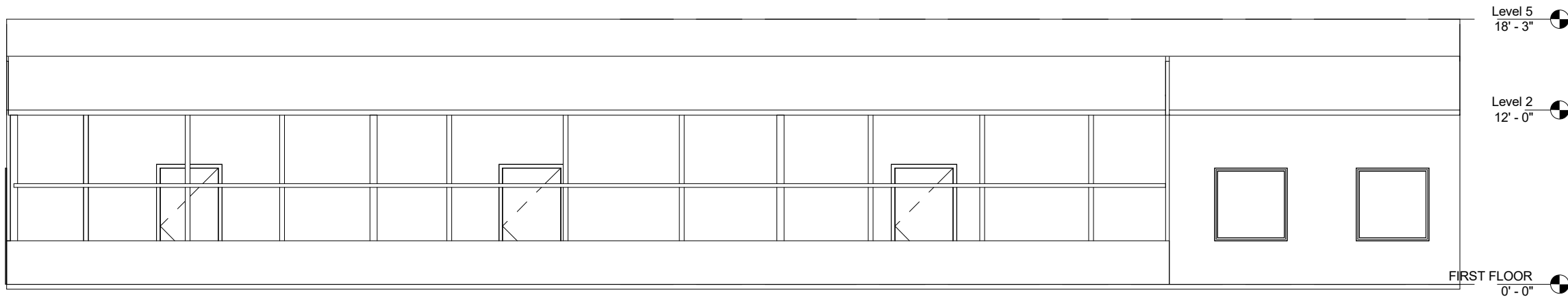
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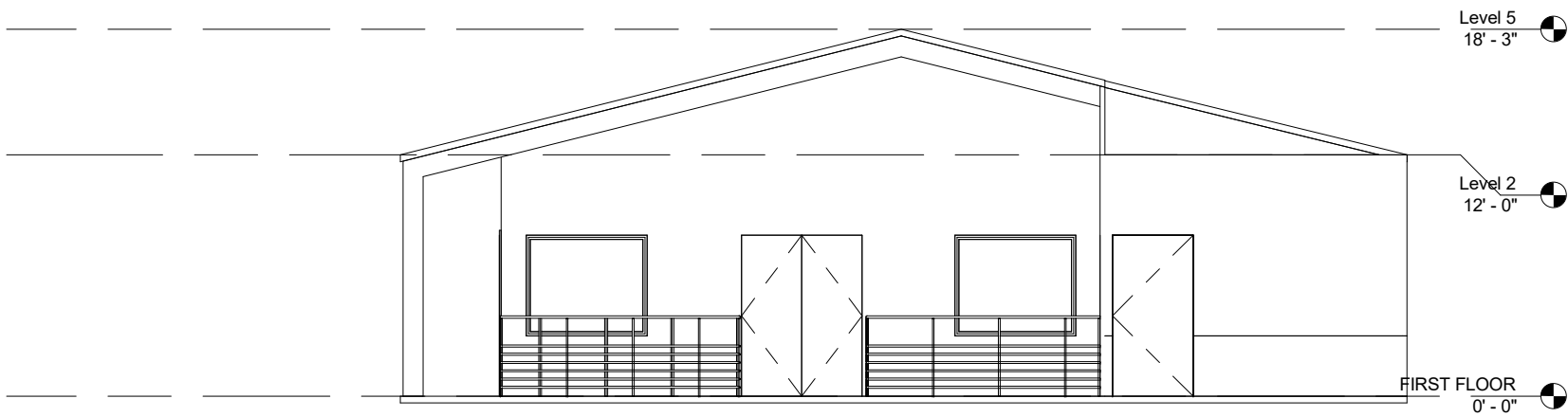
1 E1
1/8" = 1'-0"



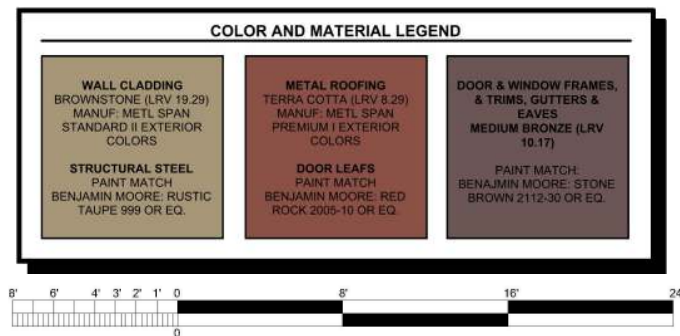
2 E2
1/8" = 1'-0"



3 E3
1/8" = 1'-0"



4 E4
1/8" = 1'-0"



ARCHITECT:
AJAY GOEL
748 BLUE STONE CIRCLE
FOLSOM, CA 95630
916-294-5337

PROJECT TITLE:
BARSANA RESIDENCE
AUGUSTE COURT | APN 029-35-007
MILPITAS, CA 95035

DRAWN BY: VARUN

CHECK BY:

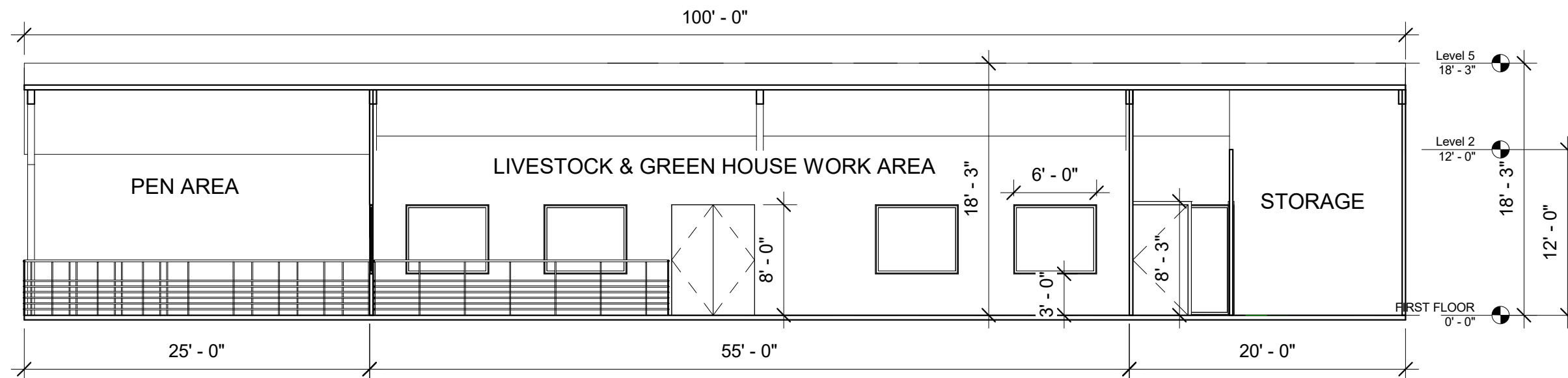
SUBJECT:
LIVESTOCK &
GREEN HOUSE
SHED

ELEVATIONS

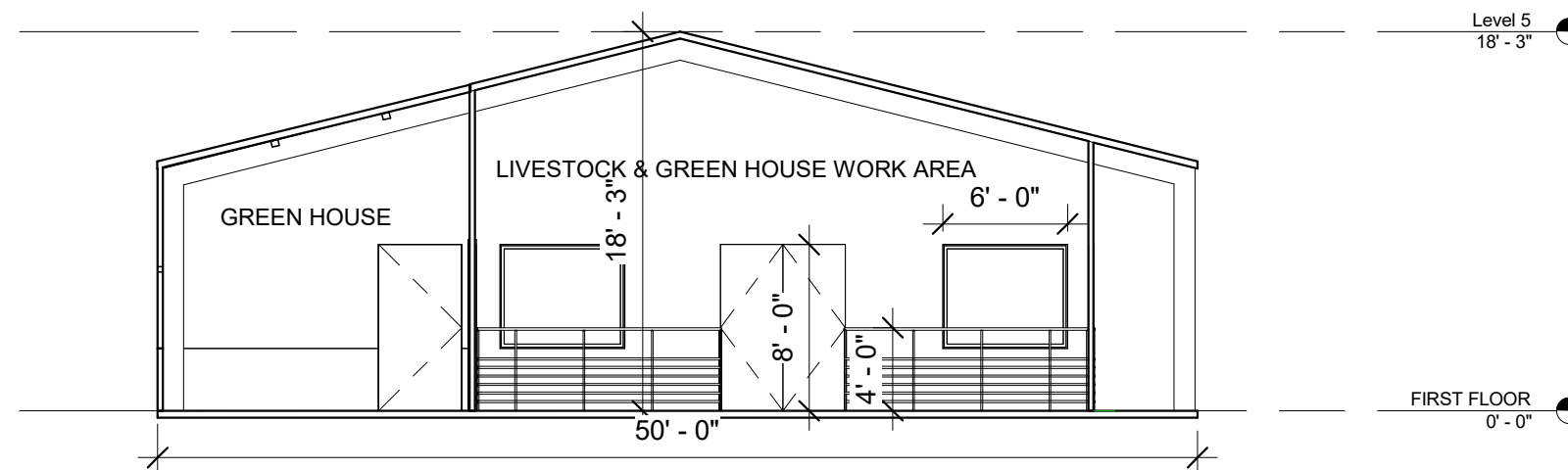
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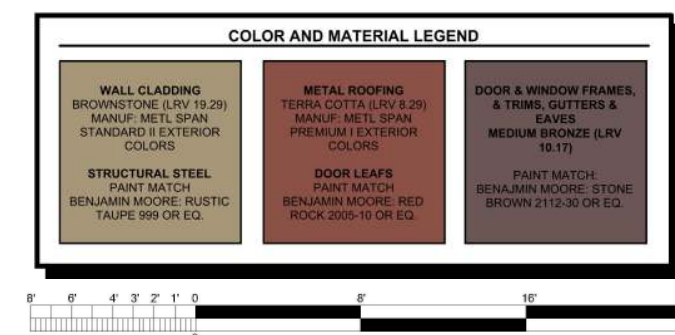
DATE: 02-14-2024



1 Section 1
1/8" = 1'-0"



2 Section 2
1/8" = 1'-0"



ARCHITECT:
AJAY GOEL
748 BLUE STONE CIRCLE
FOLSOM, CA 95630
916-294-5337

PROJECT TITLE:
BARSANA RESIDENCE
AUGUSTE COURT | APN 029-35-007
MILPITAS, CA 95035

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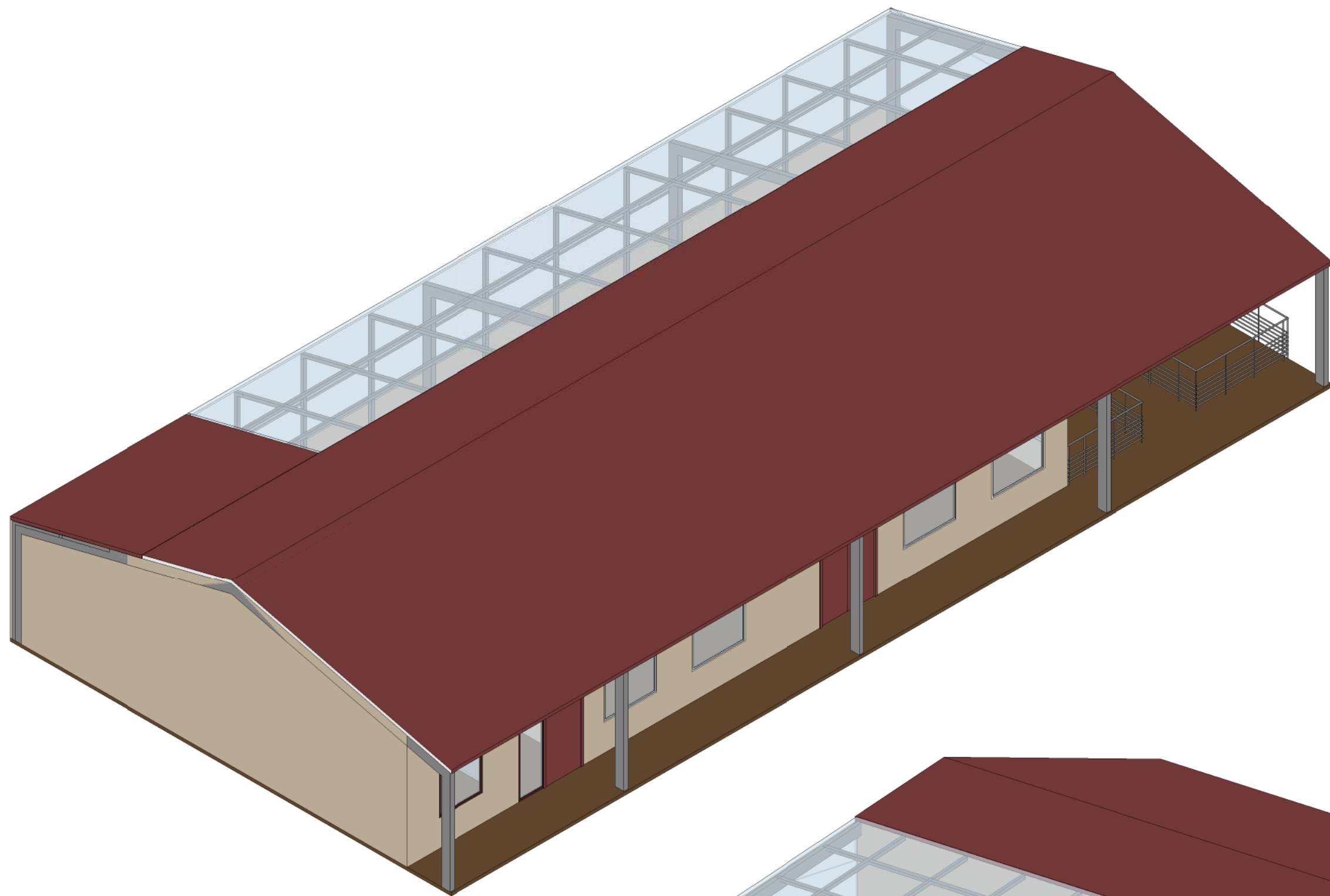
SUBJECT:
LIVESTOCK &
GREEN HOUSE
SHED

SECTIONS

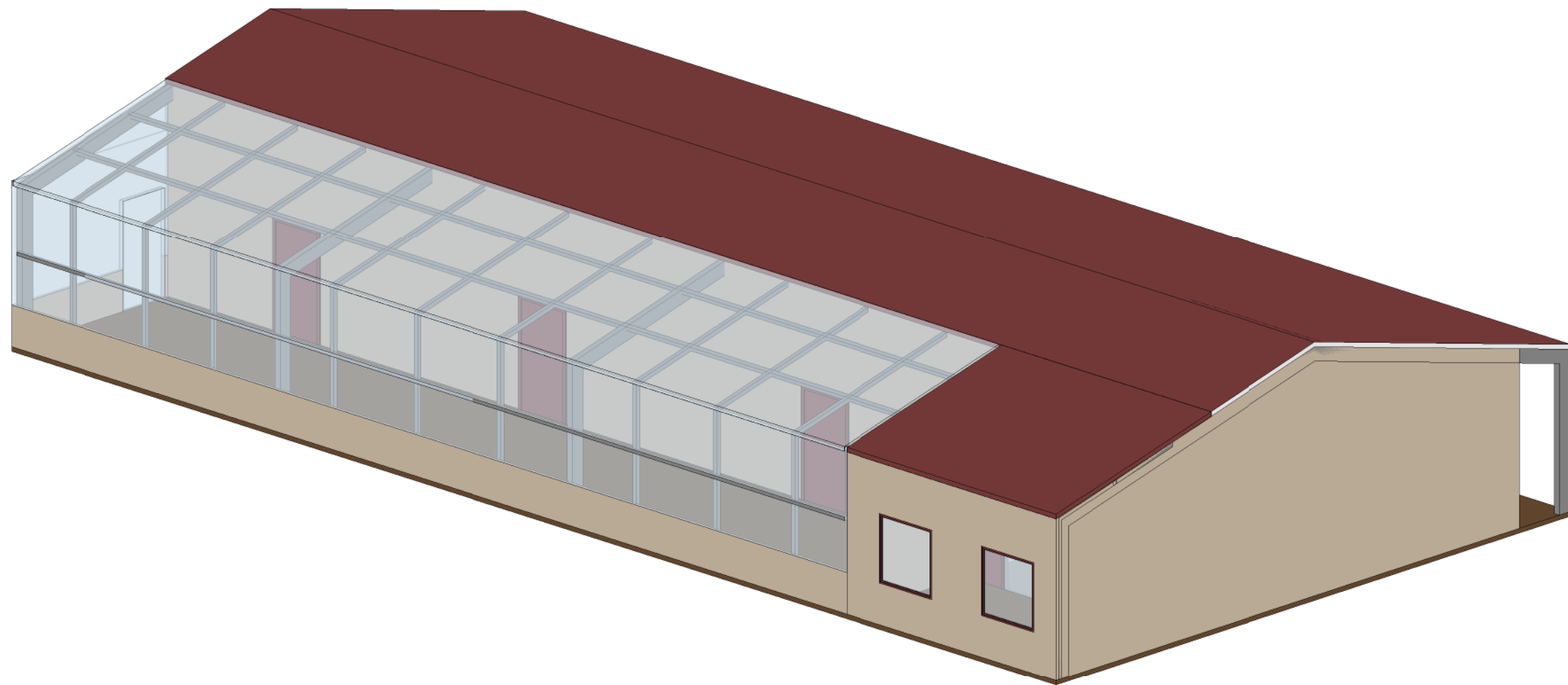
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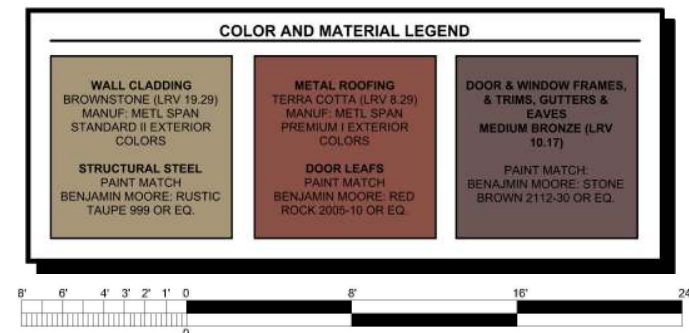
DATE: 02-14-2024



6 VIEW FROM E2



7 VIEW FROM E4



ARCHITECT:
AJAY GOEL
748 BLUE STONE CIRCLE
FOLSOM, CA 95630
916-294-5337

PROJECT TITLE:
BARSANA RESIDENCE
AUGUSTE COURT | APN 029-35-007
MILPITAS, CA 95035

DRAWN BY: VARUN

CHECK BY:

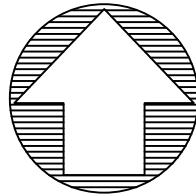
SUBJECT:
LIVESTOCK &
GREEN HOUSE
SHED

VIEWS

LSS 04

SCALE: 1"=8'

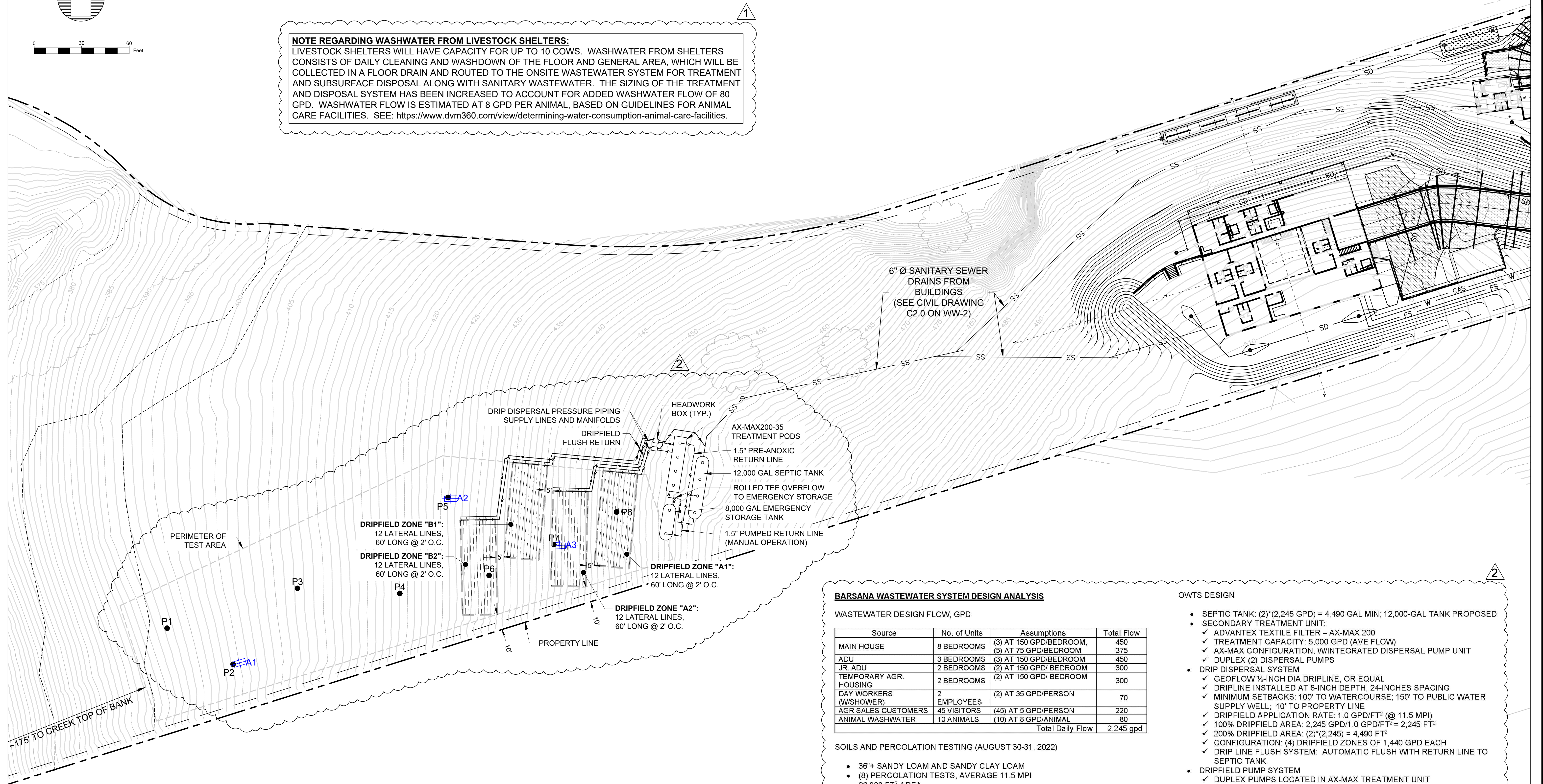
DATE: 02-14-2024



0 30 60 Feet

NOTE REGARDING WASHWATER FROM LIVESTOCK SHELTERS:

LIVESTOCK SHELTERS WILL HAVE CAPACITY FOR UP TO 10 COWS. WASHWATER FROM SHELTERS CONSISTS OF DAILY CLEANING AND WASHDOWN OF THE FLOOR AND GENERAL AREA, WHICH WILL BE COLLECTED IN A FLOOR DRAIN AND ROUTED TO THE ONSITE WASTEWATER SYSTEM FOR TREATMENT AND SUBSURFACE DISPOSAL ALONG WITH SANITARY WASTEWATER. THE SIZING OF THE TREATMENT AND DISPOSAL SYSTEM HAS BEEN INCREASED TO ACCOUNT FOR ADDED WASHWATER FLOW OF 80 GPD. WASHWATER FLOW IS ESTIMATED AT 8 GPD PER ANIMAL, BASED ON GUIDELINES FOR ANIMAL CARE FACILITIES. SEE: <https://www.dvm360.com/view/determining-water-consumption-animal-care-facilities>.



BARSANA WASTEWATER SYSTEM DESIGN ANALYSIS

WASTEWATER DESIGN FLOW, GPD

Source	No. of Units	Assumptions	Total Flow
MAIN HOUSE	8 BEDROOMS	(3) AT 150 GPD/BEDROOM,	450
		(5) AT 75 GPD/BEDROOM	375
ADU	3 BEDROOMS	(3) AT 150 GPD/BEDROOM	450
JR. ADU	2 BEDROOMS	(2) AT 150 GPD/ BEDROOM	300
TEMPORARY AGR. HOUSING	2 BEDROOMS	(2) AT 150 GPD/ BEDROOM	300
DAY WORKERS (W/SHOWERS)	2 EMPLOYEES	(2) AT 35 GPD/PERSON	70
AGR SALES CUSTOMERS	45 VISITORS	(45) AT 5 GPD/PERSON	220
ANIMAL WASHWATER	10 ANIMALS	(10) AT 8 GPD/ANIMAL	80
Total Daily Flow			2,245 gpd

SOILS AND PERCOLATION TESTING (AUGUST 30-31, 2022)

- 36"+ SANDY LOAM AND SANDY CLAY LOAM
- (8) PERCOLATION TESTS, AVERAGE 11.5 MPI
- 26,000 FT² AREA
- GROUND SLOPES 20 TO 28%
- SUITABLE FOR SUBSURFACE DRIP DISPERSAL

OWTS DESIGN

- SEPTIC TANK: (2)*(2,245 GPD) = 4,490 GAL MIN; 12,000-GAL TANK PROPOSED
- SECONDARY TREATMENT UNIT:
 - ADVANTEX TEXTILE FILTER – AX-MAX 200
 - TREATMENT CAPACITY: 5,000 GPD (AVE FLOW)
 - AX-MAX CONFIGURATION, W/INTEGRATED DISPERSAL PUMP UNIT
 - DUPLEX (2) DISPERSAL PUMPS
- DRIP DISPERSAL SYSTEM
 - GEOFLOW 1/2-INCH DIA DRIPLINE, OR EQUAL
 - DRIPLINE INSTALLED AT 8-INCH DEPTH, 24-INCHES SPACING
 - MINIMUM SETBACKS: 100' TO WATERCOURSE; 150' TO PUBLIC WATER SUPPLY WELL; 10' TO PROPERTY LINE
 - DRIPFIELD APPLICATION RATE: 1.0 GPD/FT² (@ 11.5 MPI)
 - 100% DRIPFIELD AREA: 2,245 GPD/1.0 GPD/FT² = 2,245 FT²
 - 200% DRIPFIELD AREA: (2)*(2,245) = 4,490 FT²
 - CONFIGURATION: (4) DRIPFIELD ZONES OF 1,440 GPD EACH
 - DRIP LINE FLUSH SYSTEM: AUTOMATIC FLUSH WITH RETURN LINE TO SEPTIC TANK
- DRIPFIELD PUMP SYSTEM
 - DUPLEX PUMPS LOCATED IN AX-MAX TREATMENT UNIT
 - EMERGENCY STORAGE CAPACITY REQ'D: (1.5)*(2,245 GPD) = 3,368 GAL
 - EMERGENCY STORAGE PROVIDED IN DEDICATED 8,000 GAL TANK

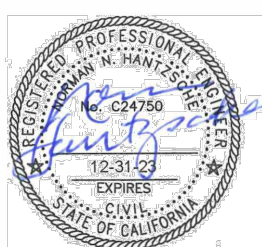
BARSANA RESIDENCE OWTS

APN: 029-35-007
MILPITAS, CA



Civil
Environmental
& Water Resources

(510) 236-6114
FAX (510) 236-2423
questa@questaec.com
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807



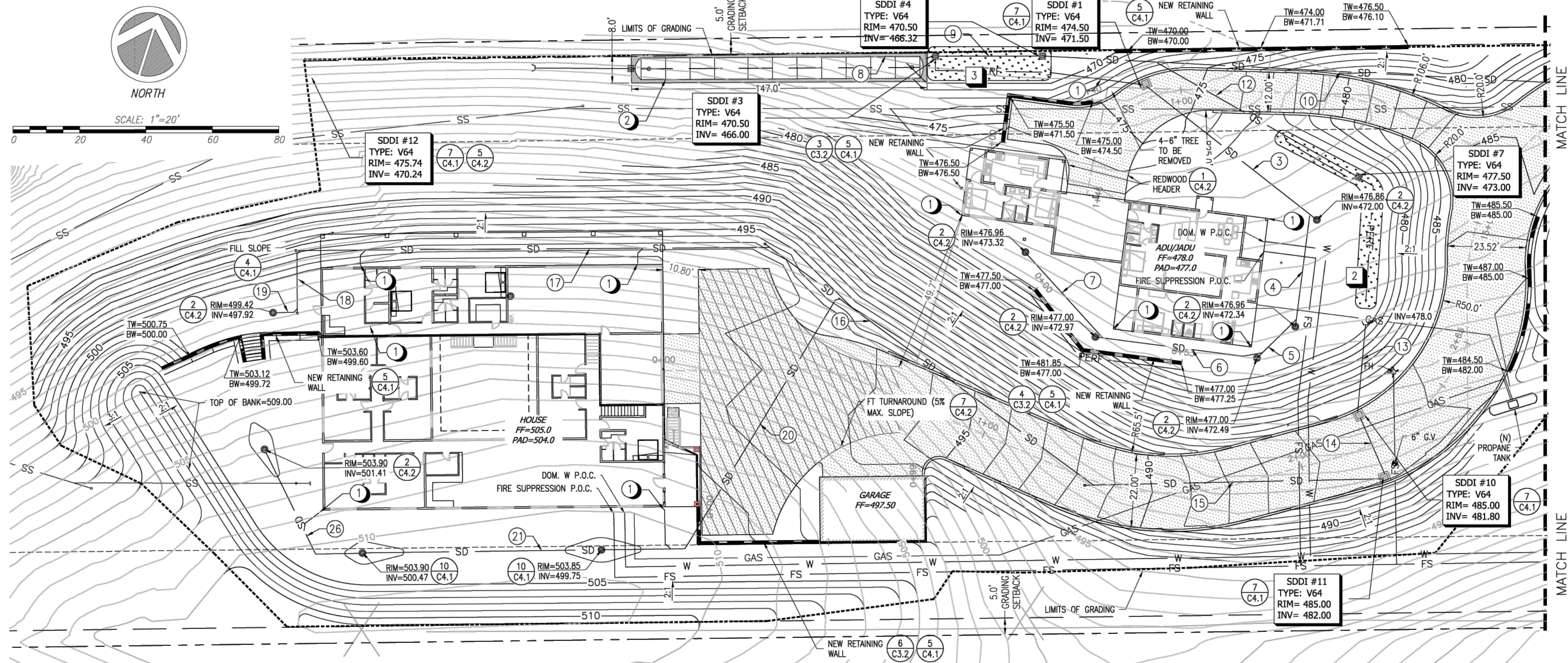
Sht	Rev	Date	By	Description	App'd
1		6/14/23	ER	REVISE WW FLOWS FOR ANIMAL SHELTER	NH
2		5/9/24	MN	UPDATE TREATMENT & DESIGN PLAN	NH

Design:	MW
Drawn:	PS
Checked:	NH
App'd:	NH

ONSITE WASTEWATER TREATMENT AND DISPOSAL PLAN

BARSANA RESIDENCE, MILPITAS, CA

Size D	Project 2200017
Scale:	AS NOTED
Date:	10/19/22
Sheet:	WW-1



1 ENLARGED SITE PLAN - SOUTH

BIO-RETENTION NOTES

- BIO-RETENTION AREA #1
747 SQ. FT.
TOP OF SOIL EL = 482.0
- BIO-RETENTION AREA #2
389 SQ. FT.
TOP OF SOIL EL = 477.0
- BIO-RETENTION AREA #3
375 SQ. FT.
TOP OF SOIL EL = 470.0

STORM DRAINAGE PIPE DATA

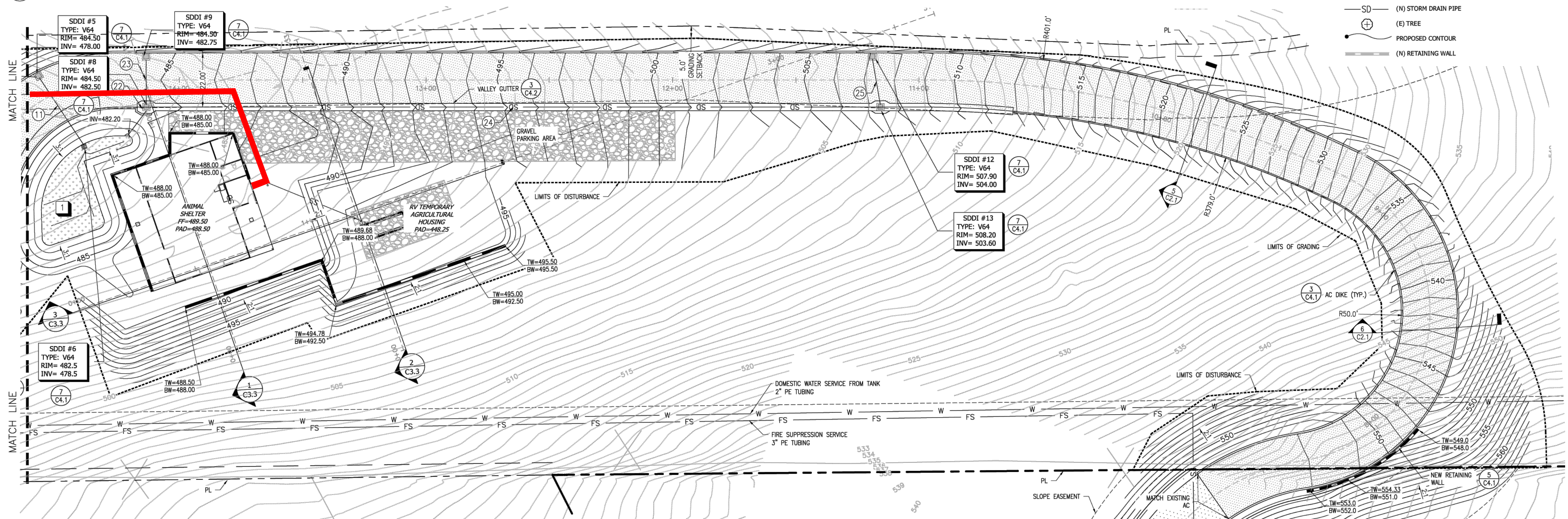
- | | |
|--------------------------------------|--------------------------------------|
| 1. 28 LF OF 8" SDR-35 @ 4.5% SLOPE | 15. 90 LF OF 6" SDR-35 @ 4.4% SLOPE |
| 2. NA | 16. 132 LF OF 6" SDR-35 @ 6.8% SLOPE |
| 3. 65 LF OF 6" SDR-35 @ 0.5% SLOPE | 17. 113 LF OF 6" SDR-35 @ 2.0% SLOPE |
| 4. 34 LF OF 6" SDR-35 @ 1.0% SLOPE | 18. 27 LF OF 6" SDR-35 @ 2.0% SLOPE |
| 5. 15 LF OF 6" SDR-35 @ 1.0% SLOPE | 19. 3 LF OF 6" SDR-35 @ 2.0% SLOPE |
| 6. 48 LF OF 6" SDR-35 @ 1.0% SLOPE | 20. 88 LF OF 6" SDR-35 @ 20.2% SLOPE |
| 7. 35 LF OF 6" SDR-35 @ 1.0% SLOPE | 21. 112 LF OF 6" SDR-35 @ 1.0% SLOPE |
| 8. 30 LF OF 10" SDR-35 @ 1.0% SLOPE | 22. 10 LF OF 6" SDR-35 @ 3.0% SLOPE |
| 9. 30 LF OF 10" SDR-35 @ 1.0% SLOPE | 23. 17 LF OF 6" SDR-35 @ 1.5% SLOPE |
| 10. 150 LF OF 8" SDR-35 @ 7.8% SLOPE | 24. 305 LF OF 6" SDR-35 @ 7.0% SLOPE |
| 11. 39 LF OF 8" SDR-35 @ 1.2% SLOPE | 25. 18 LF OF 6" SDR-35 @ 2.0% SLOPE |
| 12. 71 LF OF 8" SDR-35 @ 6.3% SLOPE | 26. 47 LF OF 6" SDR-35 @ 2.0% SLOPE |
| 13. 28 LF OF 6" SDR-35 @ 14.3% SLOPE | |
| 14. 18 LF OF 8" SDR-35 @ 1.1% SLOPE | |

STORM DRAINAGE NOTES:

- CONNECT TO BUILDING DOWNSPOUT. CONTRACTOR SHALL CONFIRM EXACT LOCATION OF DOWNSPOUT.
- STORMWATER STORAGE CHAMBERS. AREA DIMENSIONS 14' X 8' SEE DETAIL G/ SHEET C4.2.

LEGEND

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



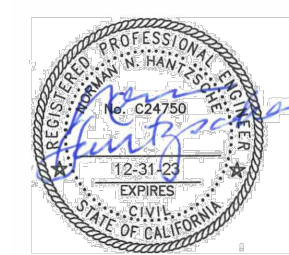
BARSANA RESIDENCE OWTS

APN: 029-35-007
MILPITAS, CA

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

Civil
Environmental
& Water Resources

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FAX (510) 236-2423
questa@questaec.com



Sht	Rev	Date	By	Description	App'd

Design: MW
Drawn: PS
Checked: NH
App'd: NH

**SITE PLAN
(PER CIVIL DWG C2.0)**

BARSANA RESIDENCE, MILPITAS, CA

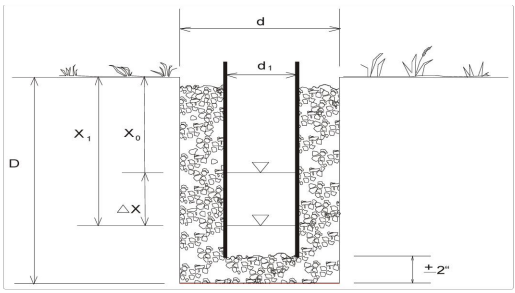
Size D Project 2200017
Scale: AS NOTED
Date: 10/19/22
Sheet: WW-2

PERCOLATION TEST DATA



PERCOLATION TEST DATA

Project Number: 2200017 Date: 8/31/2022
Project Name: Barsana Residence Test by: MPW(4-8), FJD(1-3)
Location: 0 Augusto Ct, Milpitas, CA Checked by: MH, JC



SOIL PROFILE LOGS

Questa Engineering Corporation

SOIL PROFILE DESCRIPTION

Project Number: 2200017 Project Name: Barsana Residence Date: 8/31/2022
Project Location: Milpitas Boring Method: Logged By: Matt Wolf

Test Hole: P1		Hole Diameter (d): 12"		Pipe Diameter (d _i):		4 Depth (D): 24"		Soil Type: Sandy Clay Loam	
Trial Number	Start Time (T _a)	Initial Water Level (inches) (X _s)	Time Read (T _r)	Final Water Level (inches) (X _i)	Time Interval (minutes) (T)	Water Drop (inches) (ΔX)	Percolation Rate		
							Inches per Hour	Minutes per Inch	
1	9:50:00 AM	14.875	10:20:00 AM	18.500	30.00	3.625	7.25	8.3	
2	10:22:00 AM	11.750	10:52:00 AM	17.500	30.00	5.750	11.50	5.2	
3	10:53:00 AM	16.500	11:23:00 AM	18.875	30.00	2.375	4.75	12.6	
4	11:24:00 AM	16.000	11:54:00 AM	18.625	30.00	2.625	5.25	11.4	
5	11:55:00 AM	16.375	12:25:00 PM	18.750	30.00	2.375	4.75	12.6	
6	12:26:00 PM	16.500	12:56:00 PM	18.875	30.00	2.375	4.75	12.6	
7	12:57:00 PM	16.500	1:27:00 PM	18.875	30.00	2.375	4.75	12.6	
8									
9									
10									
11									
12									
Adjustment Factor: 1.40		Adjusted Stabilized Rate: 17.7		Maximum Application Rate:					
Adjustment Rate Method:		Gravel-Pack		Notes:		Starting at 22.5"			
Remaining Presoak:									

Test Hole: P2		Hole Diameter (d): 12"		Pipe Diameter (d ₁):		4 Depth (D): 24"		Soil Type: Sandy Clay Loam	
Trial Number	Start Time (T _s)	Initial Water Level (inches) (X _s)	Time Read (T _r)	Final Water Level (inches) (X _f)	Time Interval (minutes) (T)	Water Drop (inches) (ΔX)	Percolation Rate		
							Inches per Hour	Minutes per Inch	
1	9:52:00 AM	3.000	10:23:00 AM	DRY	31.00	6.000			
2	10:24:00 AM	3.000	10:54:00 AM	DRY	30.00	6.000			
3	10:56:00 AM	3.000	11:26:00 AM	DRY	30.00	6.000			
4	11:27:00 AM	3.000	11:47:00 AM	8.125	20.00	5.125	15.375	3.9	
5	11:48:00 AM	3.000	12:08:00 PM	8.125	20.00	5.125	15.375	3.9	
6	12:09:00 PM	3.000	12:29:00 PM	8.125	20.00	5.125	15.375	3.9	
7									
8									
9									
10									
11									
12									
Adjustment Factor: 1.40		Adjusted Stabilized Rate: 5.5		Maximum Application Rate:					
Adjustment Rate Method:		Gravel-Pack		Notes:		Starting at 9"			
Remaining Presoak:									

Test Hole: P5		Hole Diameter (d):		12"		Pipe Diameter (d _i):		4 Depth (D): 24"		Soil Type: Sandy Clay Loam	
Trial Number	Start Time (T _s)	Initial Water Level (inches) (X _s)	Time Read (T _r)	Final Water Level (inches) (X _r)	Time Interval (minutes) (T)	Water Drop (inches) (ΔX)	Percolation Rate				
						Inches per Hour	Minutes per Inch				
1	9:58:00 AM	6.000	10:29:00 AM	12.000	31.00	6.000	11.613	5.2			
2	10:30:00 AM	5.250	11:00:00 AM	11.375	30.00	6.125	12.250	4.9			
3	11:01:00 AM	6.000	11:32:00 AM	11.250	31.00	5.250	10.161	5.9			
4	11:33:00 AM	6.000	12:03:00 PM	11.000	30.00	5.000	10.000	6.0			
5	12:04:00 PM	6.000	12:34:00 PM	11.000	30.00	5.000	10.000	6.0			
6	12:45:00 PM	6.000	1:15:00 PM	11.000	30.00	5.000	10.000	6.0			
7											
8											
9											
10											
11											
12											
Adjustment Factor: 1.40		Adjusted Stabilized Rate: 8.4		Maximum Application Rate:							
Adjustment Rate Method: Gravel-Pack		Notes:		Starting at 12"							
Remaining Presoak:											

Test Hole: P6		Hole Diameter (d): 12"		Pipe Diameter (d _i):		4 Depth (D): 24"		Soil Type: Sandy Clay Loam	
Trial Number	Start Time (T _s)	Initial Water Level (inches) (X _s)	Time Read (T _i)	Final Water Level (inches) (X _i)	Time Interval (minutes) (T)	Water Drop (inches) (ΔX)	Percolation Rate		
							Inches per Hour	Minutes per Inch	
1	10:00:00 AM	3.000	10:32:00 AM	5.750	32.00	2.750	5.156	11.6	
2	10:33:00 AM	2.875	11:03:00 AM	5.250	30.00	2.375	4.750	12.6	
3	11:04:00 AM	2.875	11:34:00 AM	5.125	30.00	2.250	4.500	13.3	
4	11:35:00 AM	3.000	12:05:00 PM	5.250	30.00	2.250	4.500	13.3	
5									
6									
7									
8									
9									
10									
11									
12									
Adjustment Factor: 1.40		Adjusted Stabilized Rate: 18.7		Maximum Application Rate:					
Adjustment Rate Method: Gravel-Pack		Notes:		Started at 9"					
Remaining Presoak:									

Test Hole: P3		Hole Diameter (d):		12"		Pipe Diameter (d ₁):		4 Depth (D): 24"		Soil Type: Sandy Clay Loam	
Trial Number	Start Time (T _s)	Initial Water Level (inches) (X _s)	Time Read (T _r)	Final Water Level (inches) (X _e)	Time Interval (minutes) (T)	Water Drop (inches) (ΔX)	Percolation Rate				
							Inches per Hour	Minutes per Inch			
1	9:54:00 AM	14.000	10:25:00 AM	17.500	31.00	3.50	6.774	8.9			
2	10:27:00 AM	14.000	10:57:00 AM	16.875	30.00	2.88	5.750	10.4			
3	10:58:00 AM	14.000	11:28:00 AM	17.375	30.00	3.38	6.750	8.9			
4	11:29:00 AM	14.000	11:59:00 AM	16.750	30.00	2.75	5.500	10.9			
5	12:00:00 PM	14.000	12:30:00 PM	16.750	30.00	2.75	5.500	10.9			
6	12:31:00 PM	14.000	1:01:00 PM	16.750	30.00	2.75	5.500	10.9			
7											
8											
9											
10											
11											
12											
Adjustment Factor: 1.40		Adjusted Stabilized Rate: 15.3		Maximum Application Rate:							
Adjustment Rate Method: Gravel-Pack		Notes: Starting at 20"									
Remaining Presoak:											

Test Hole: P4		Hole Diameter (d): 12"		Pipe Diameter (d ₁):		4 Depth (D): 24"		Soil Type: Sandy Clay Loam	
Trial Number	Start Time (T _s)	Initial Water Level (Inches) (X _s)	Time Read (T _r)	Final Water Level (Inches) (X _r)	Time Interval (minutes) (T)	Water Drop (Inches) (ΔX)	Percolation Rate		
							Inches per Hour	Minutes per Inch	
1	9:55:00 AM	3.000	10:27:00 AM	7.500	32.00	4.500	8.438	7.1	
2	10:28:00 AM	3.000	10:58:00 AM	6.625	30.00	3.625	7.250	8.3	
3	10:59:00 AM	3.000	11:29:00 AM	6.625	30.00	3.625	7.250	8.3	
4	11:30:00 AM	3.000	12:00:00 PM	6.500	30.00	3.500	7.000	8.6	
5									
6									
7									
8									
9									
10									
11									
12									
Adjustment Factor: 1.40		Adjusted Stabilized Rate: 12.0		Maximum Application Rate:					
Adjustment Rate Method: Gravel-Pack		Notes:		Starting at 9"					
Remaining Presoak:									

Test Hole: P7		Hole Diameter (d): 12"		Pipe Diameter (d _i):		4 Depth (D): 24"		Soil Type: Sandy Clay Loam	
Trial Number	Start Time (T _s)	Initial Water Level (inches) (X _s)	Time Read (T _r)	Final Water Level (inches) (X _i)	Time Interval (minutes) (T)	Water Drop (inches) (ΔX)	Percolation Rate		
							Inches per Hour	Minutes per Inch	
1	10:01:00 AM	12.000	10:34:00 AM	15.625	33.00	3.625	6.591	9.1	
2	10:35:00 AM	12.000	11:05:00 AM	15.125	30.00	3.125	6.250	9.6	
3	11:06:00 AM	11.875	11:36:00 AM	15.000	30.00	3.125	6.250	9.6	
4	11:37:00 AM	12.000	12:07:00 PM	15.250	30.00	3.250	6.500	9.2	
5	12:07:00 PM	12.000	12:37:00 PM	15.250	30.00	3.250	6.500	9.2	
6									
7									
8									
9									
10									
11									
12									
Adjustment Factor: 1.40		Adjusted Stabilized Rate: 12.9		Maximum Application Rate:					
Adjustment Rate Method: Gravel-Pack		Notes:		Starting at 18"					
Remaining Presoak:									

Test Hole: P8		Hole Diameter (d): 12"		Pipe Diameter (d ₁):		4 Depth (D): 24"		Soil Type: Light Clay Loam	
Trial Number	Start Time (T _s)	Initial Water Level (Inches) (X _s)	Time Read (T _r)	Final Water Level (Inches) (X _r)	Time Interval (minutes) (T)	Water Drop (Inches) (ΔX)	Percolation Rate		
							Inches per Hour	Minutes per Inch	
1	10:03:00 AM	3.000	10:36:00 AM	DRY	33.00	>6			
2	10:37:00 AM	3.000	11:07:00 AM	DRY	30.00	>6			
3	11:08:00 AM	3.000	11:38:00 AM	DRY	30.00	>6			
4	11:38:00 AM	3.000	12:10:00 PM	DRY	32.00	>6			
5	12:10:00 PM	3.000	12:12:00 PM	DRY	2.00	>6			
6	12:38:00 PM	3.000	12:39:00 PM	9.000	1.00	6.000	360.000	0.2	
7	12:14:45 PM	3.000	12:16:05 PM	9.000	1.33	6.000	270.677	0.2	
8	12:17:35 PM	3.000	12:19:00 PM	9.000	1.42	6.000	253.521	0.2	
9	12:20:10 PM	3.000	12:22:00 PM	9.000	1.83	6.000	196.721	0.3	
10	12:19:00 PM	3.000	12:21:10 PM	9.000	1.17	6.000	307.692	0.2	
11	12:29:50 PM	3.000	12:32:50 PM	9.000	3.00	6.000	120.000	0.5	
12	12:48:00 PM	3.000	12:50:00 PM	9.000	2.00	6.000	180.000	0.3	
13	12:52:00 PM	3.000	12:54:00 PM	9.000	2.00	6.000	180.000	0.3	
14	1:02:35 PM	3.000	1:06:30 PM	9.000	3.92	6.000	91.837	0.7	
15	1:08:05 PM	3.000	1:13:10 PM	9.000	5.17	6.000	69.632	0.9	
16	1:17:50 PM	3.000	1:23:00 PM	9.000	5.17	6.000	69.632	0.9	
17	1:25:00 PM	3.000	1:30:12 PM	9.000	5.20	6.000	69.231	0.9	
Adjustment Factor: 1.40		Adjusted Stabilized Rate: 1.2		Maximum Application Rate:					
Adjustment Rate Method:		Gravel-Pack		Notes:		Starting at 9"			
Remaining Presoak:									