

BARSANA RESIDENCE

APN: 029-35-007

INDEX OF SHEETS

- CO.1 - COVER SHEET
- CO.2 - PROPOSED EASEMENT
- CO.3 - PROPOSED EASEMENT
- C1.0 - EXISTING ACCESS ROAD PLAN
- C1.1 - EXISTING ACCESS ROAD PROFILE
- C1.2 - PROPOSED ACCESS ROAD PLAN & PROFILE
- C1.3 - PROPOSED ACCESS ROAD PLAN & PROFILE
- C1.4 - PROPOSED ACCESS ROAD PLAN & PROFILE
- C1.5 - PROPOSED ACCESS ROAD PLAN & PROFILE
- C1.6 - EXISTING INFILTRATION POND PLAN
- C1.7 - EXISTING INFILTRATION POND SECTION
- C2.0 - ENLARGED SITE PLAN
- C2.1 - PROFILES/SECTIONS
- C3.0 - OVERALL SITE PLAN & CUT/FILL ANALYSIS
- C3.1 - CUT/FILL SECTIONS
- C3.2 - CUT/FILL SECTIONS
- C3.3 - CUT/FILL SECTIONS
- C4.1 - DETAILS
- C4.2 - DETAILS
- C5.1 - EROSION CONTROL
- C6.1 - ALTERNATE SITE PLAN
- P01 - 0' AND 5' LVL PLAN
- P02 - 12' LVL PLAN
- P03 - AREA CALCULATION
- P04 - SECTIONS
- P05 - ELEVATIONS
- P06 - VIEWS
- A01 - FLOOR PLAN
- A02 - ELEVATIONS
- A03 - SECTIONS
- A04 - VIEWS
- WW1 - PRELIMINARY OWTS DISPOSAL PLAN
- LSS 01 - LIVESTOCK SHELTER FLOOR PLAN
- LSS 02 - LIVESTOCK SHELTER ELEVATIONS
- LSS 03 - LIVESTOCK SHELTER SECTIONS
- LSS 04 - LIVESTOCK SHELTER VIEWS

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 REMAINS 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 APPROPRIATE EVALUATION PROCEDURES.

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 ANIMAL SHELTERS. 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 = 7,999 SQ FT
 -PROPOSED DETACHED GARAGE = 462 SQ FT
 -PROPOSED JADU & ADU = 1,698 SQ FT
 -PROPOSED ANIMAL SHELTERS = 1,452 SQ FT
 -PROPOSED RV TEMPORARY AGRICULTURAL RESIDENCE = 248 SQ FT

(N) IMPERVIOUS AREAS TABLE

DESCRIPTION	AREA (SQ. FT.)	AREA (ACRES)	EQUIVALENT AREA (ACRES)
EXISTING	0	0	0
MAIN BUILDING & GARAGE	9,439	0.217	0.217
JADU & ADU	2,537	0.058	0.058
AC ROAD	26,632	0.611	0.611
CONCRETE VALLEY GUTTER	1,072	0.025	0.025
PROPOSED LIVESTOCK SHELTERS	1,452	0.033	0.033
GRAVEL BASEROCK (PARKING)	2,201	0.051	0.031
TOTAL (N) IMPERVIOUS AREA	43,333	0.995	0.995
TOTAL LOT AREA	686,854	15.768	15.768
IMPERVIOUS % OF TOTAL LOT			6.3%

IMPERVIOUS AREA IN APN 029-34-004			
DESCRIPTION	AREA (SQ. FT.)	AREA (ACRES)	EQUIVALENT AREA (ACRES)
NEW ASPHALT ROAD	18,780	0.431	0.431

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

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

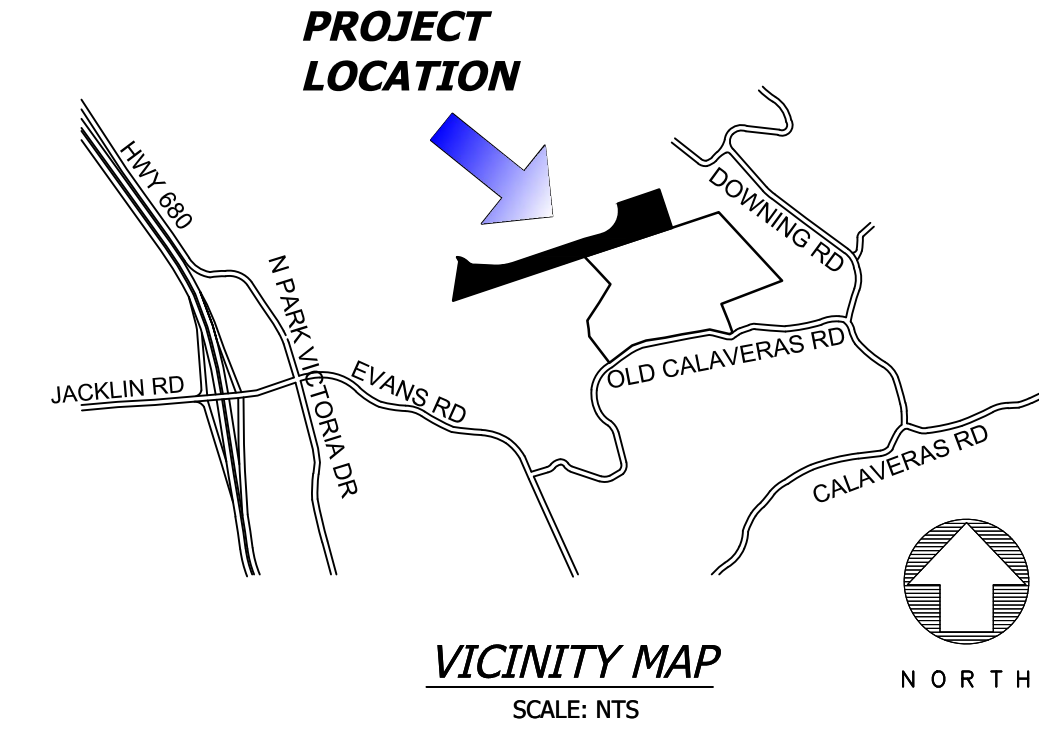
PROJECT EARTHWORK QUANTITIES

NOTE: THE EARTHWORK QUANTITIES SHOWN HEREON ARE EXCLUSIVE OF WALL FOOTINGS, EXISTING PAVEMENT REMOVAL AND OVER EXCAVATION AND 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
MAIN BUILDING	682	418	264(C)	8	6
ADU/JADU	401	323	78(C)	5	4
ROAD (APN 029-35-007)	2808	2786	22(C)	11	7
ROAD (APN 029-34-004)	1746	2219	473(F)	6	8
LIVESTOCK SHELTER & RV PARKING	445	142	303(C)	3	3
TOTAL	6082	5888	194(C)		

NET VOLUME = 194 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

- ALL DRIVEWAYS AND ACCESS ROADS TO MEET COUNTY STANDARD SD1.
- 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%.
- WATER TANKS TO HAVE A MINIMUM HEIGHT OF 12 FEET AND MEET STANDARDS SET IN CFMO W2 & W5. TANKS GREATER THAN 12 FEET IN HEIGHT WILL REQUIRE A SEPARATE BUILDING PERMIT.
- FIRE HYDRANT SHALL MEET STANDARDS SET IN CFMO-W2.
- WATER TANK SHALL BE SIZED PER NFPA 1142 TO INCLUDE SPRINKLER DEMAND AND HYDRANT DEMAND.
- ALL STRUCTURES SHALL MEET WILDLAND URBAN INTERFACE (WUI) REQUIREMENTS AT BUILDING PERMIT SUBMITTAL
- NFPA 13 FIRE SPRINKLERS SHALL BE INSTALLED IN ALL BUILDINGS AND WILL BE A DEFERRED SUBMITTAL.
- ALL DEFERRED SUBMITTALS FOR FIRE PROTECTION UNDERGROUND, FIRE HYDRANTS, WATER TANKS, & FIRE PUMP.
- PROPERTY TO MAINTAIN 100 FEET DEFENSIBLE SPACE AT ALL TIMES.
- 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

- 2022 CALIFORNIA BUILDING CODE
- 2022 CALIFORNIA ELECTRICAL CODE
- 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA PLUMBING CODE
- 2022 CALIFORNIA GREEN CODE
- 2022 CALIFORNIA ENERGY CODE
- 2022 CALIFORNIA RESIDENTIAL CODE
- 2022 CALIFORNIA FIRE CODE

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

COVER SHEET



C2G CIVIL CONSULTANTS GROUP, INC.
 Engineers/Planners
 4444 SCOTTS VALLEY DRIVE
 SCOTTS VALLEY, CA 95066
 T (831) 438-4420 F (831) 438-4420

BARSANA RESIDENCE
 AUGUSTE COURT
 APN: 029-35-007

Date: 08/06/21

Scale: 1" = 60'

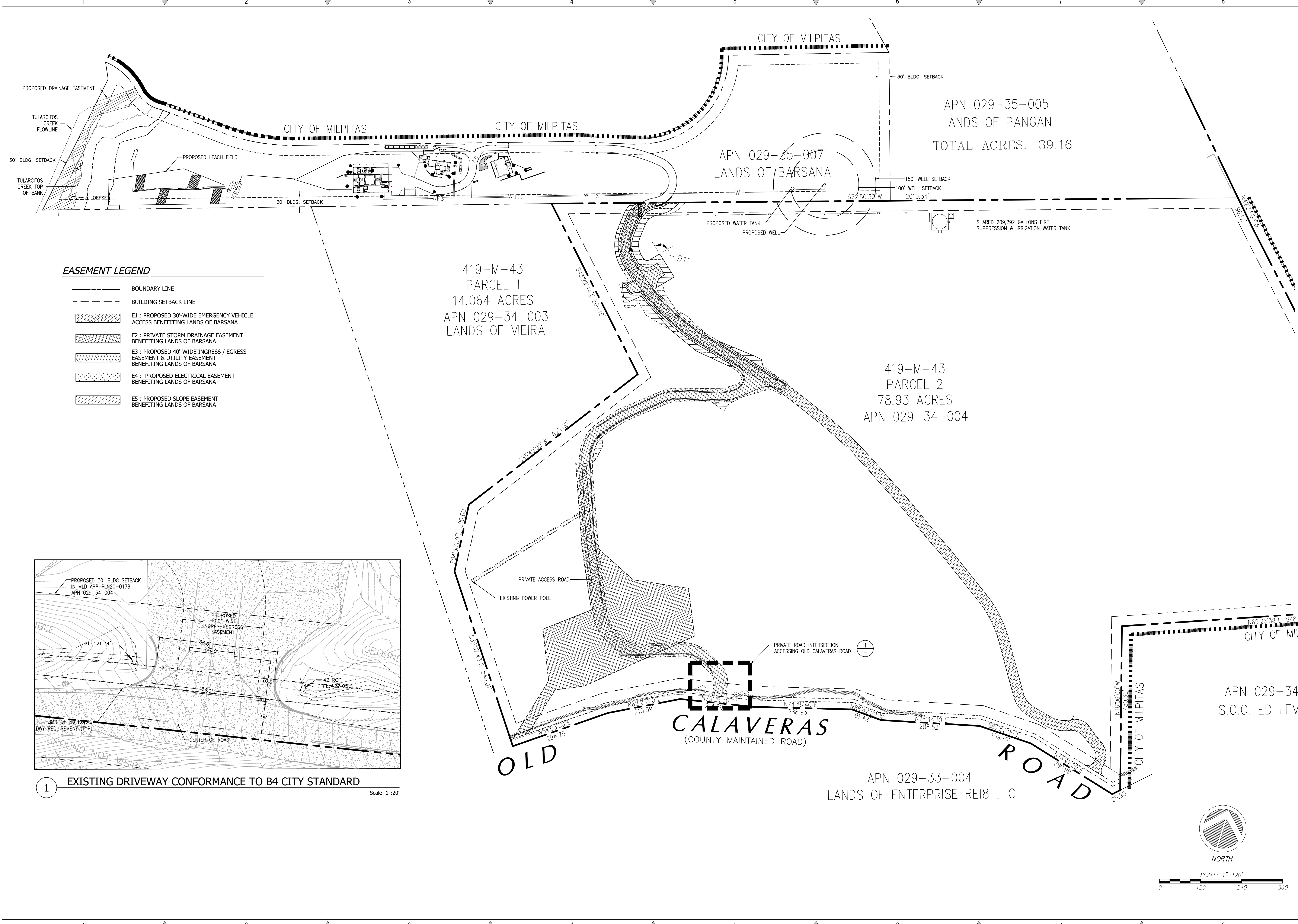
Drawn: DD

Job: 3007.02

Sheet:

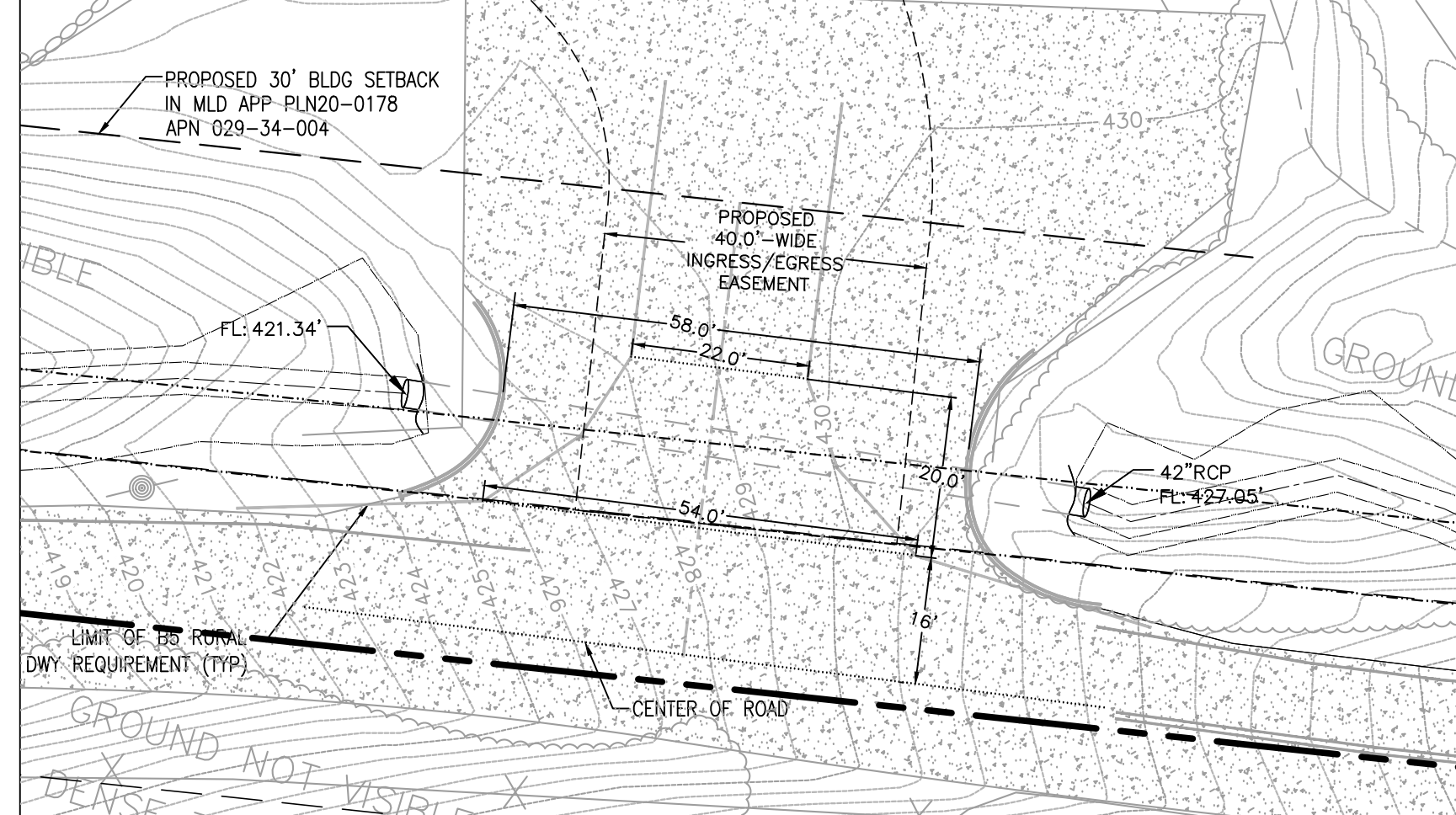
C0.1

of 31 Sheets



EASEMENT LEGEND

	BOUNDARY LINE
	BUILDING SETBACK LINE
	E1 : PROPOSED 30'-WIDE EMERGENCY VEHICLE ACCESS BENEFITING LANDS OF BARSANA
	E2 : PRIVATE STORM DRAINAGE EASEMENT BENEFITING LANDS OF BARSANA
	E3 : PROPOSED 40'-WIDE INGRESS / EGRESS EASEMENT & UTILITY EASEMENT BENEFITING LANDS OF BARSANA
	E4 : PROPOSED ELECTRICAL EASEMENT BENEFITING LANDS OF BARSANA
	E5 : PROPOSED SLOPE EASEMENT BENEFITING LANDS OF BARSANA



1 EXISTING DRIVEWAY CONFORMANCE TO B4 CITY STANDARD
Scale: 1"=20'

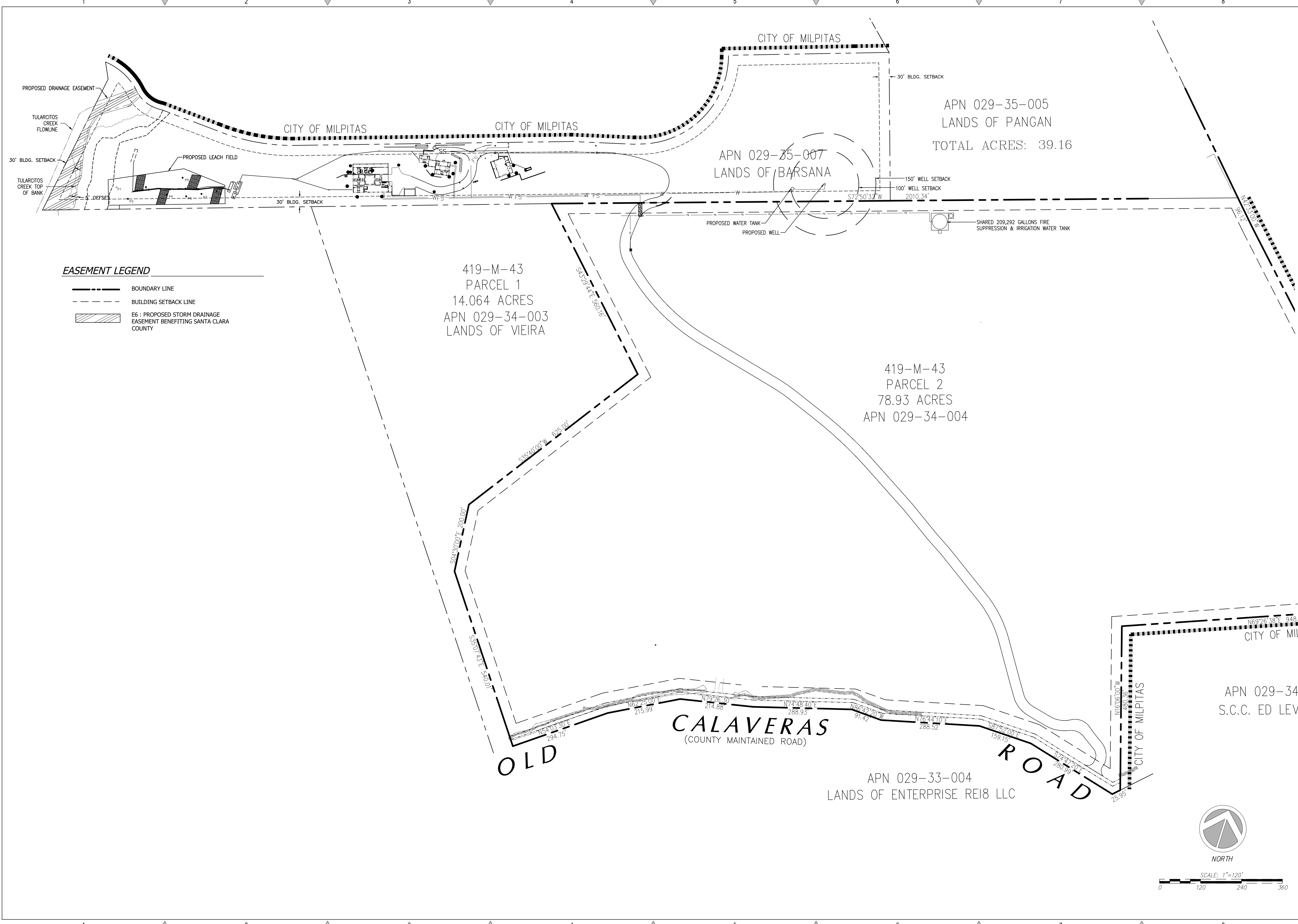
REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD

PROPOSED SITE ACCESS & EASEMENTS

C2G CIVIL CONSULTANTS GROUP, INC.
Engineers/Planners
44000 Old Calaveras Road, Suite 6
Scotts Valley, CA 95066
T (831) 438-4420 F (831) 438-4420

BARSANA RESIDENCE
AUGUSTE COURT
APN: 029-35-007

Date: 08/06/21
Scale: 1" = 120'
Drawn: DD
Job: 3007.02
Sheet: **C0.2**
Of 31 Sheets



EASEMENT LEGEND

	BOUNDARY LINE
	BUILDING SETBACK LINE
	E6 : PROPOSED STORM DRAINAGE EASEMENT BENEFITING SANTA CLARA COUNTY

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

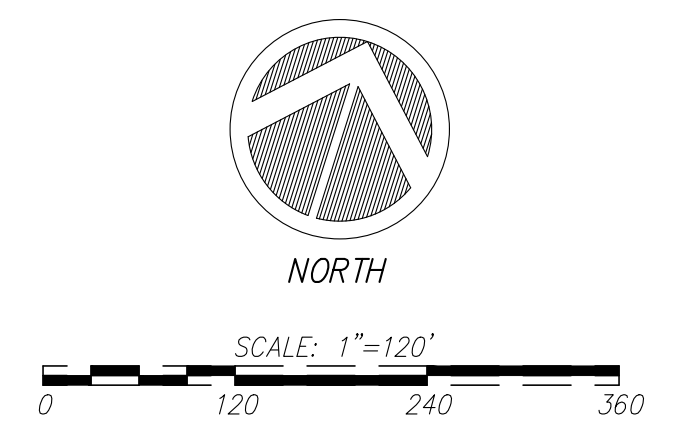
PROPOSED STORM DRAIN EASEMENTS



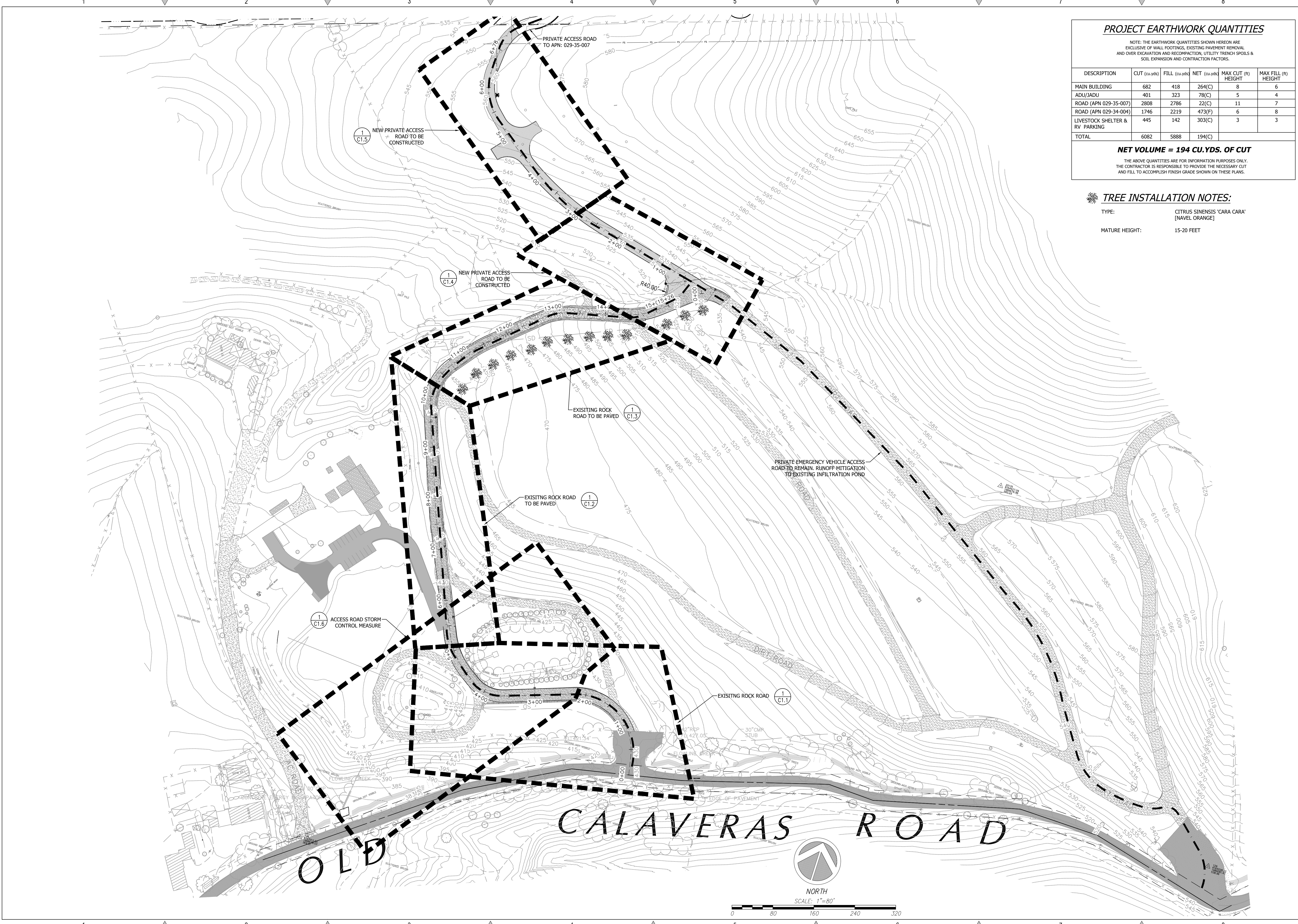
C2G CIVIL CONSULTANTS GROUP, INC.
 Engineers/Planners
 4400 Scotts Valley Road, Suite 6
 Scotts Valley, CA 95066
 T (831) 438-4420 F (831) 438-4420

**BARSANA RESIDENCE
 AUGUSTE COURT
 APN: 029-35-007**

Date:	08/06/21
Scale:	1" = 120'
Drawn:	DD
Job:	3007.02
Sheet:	C0.3
Of	31 Sheets



Drawing: Z:\Shared\CAD\000702 - MF - Barsana Residence\Design\CAD\Sheets\00702 - C0.3 - PROPOSED STORM DRAINAGE.dwg | Layout: C0.3 | Last Saved: Wed Oct 26, 2022 - 11:28am | User: jz | Plot Date: 08/06/21 | Scale: 1"=120' | By: Zane



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
MAIN BUILDING	682	418	264(C)	8	6
ADU/JADU	401	323	78(C)	5	4
ROAD (APN 029-35-007)	2808	2786	22(C)	11	7
ROAD (APN 029-34-004)	1746	2219	473(F)	6	8
LIVESTOCK SHELTER & RV PARKING	445	142	303(C)	3	3
TOTAL	6082	5888	194(C)		

NET VOLUME = 194 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

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

EXISTING SITE ACCESS

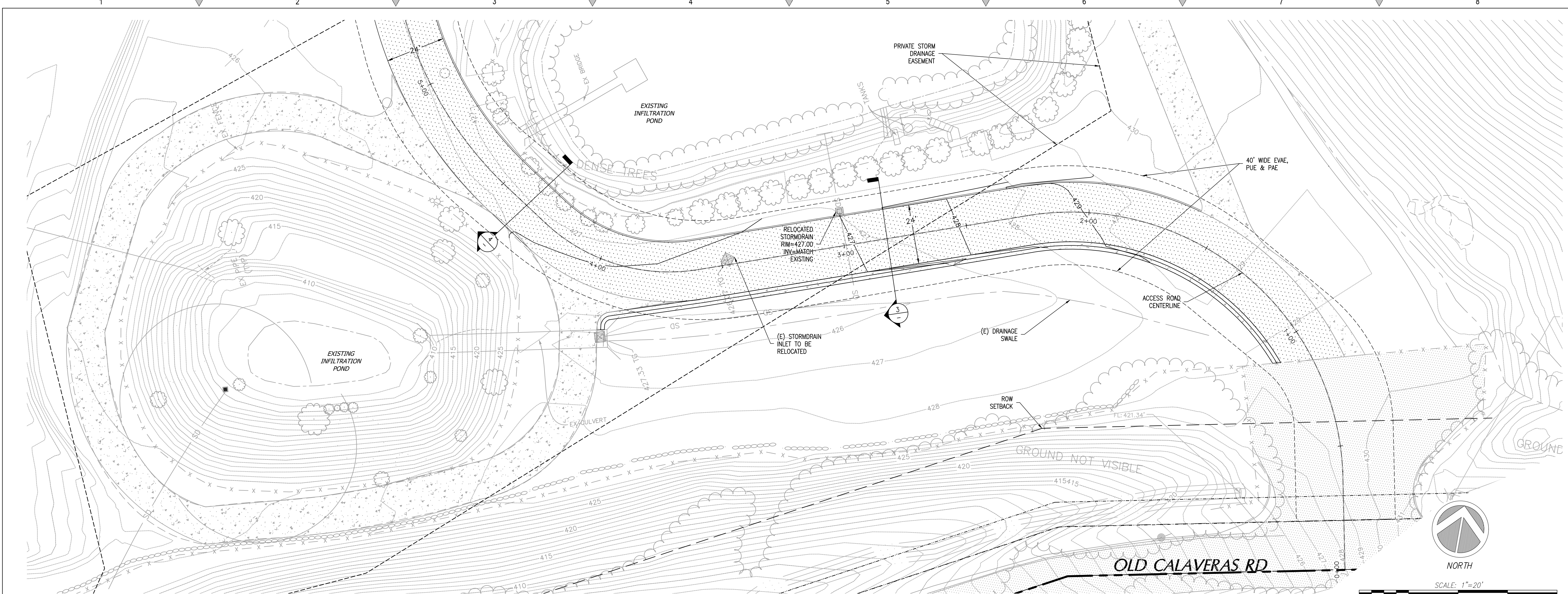
REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAGER
No. C 64561
Exp. 6/30/23
CIVIL
STATE OF CALIFORNIA

C2G CIVIL CONSULTANTS GROUP, INC.
Engineers/Planners
44000 Highway 99, Suite 6
Scotts Valley, CA 95066
T (831) 438-4420 F (831) 438-4420

BARSANA RESIDENCE
AUGUSTE COURT
APN: 029-35-007

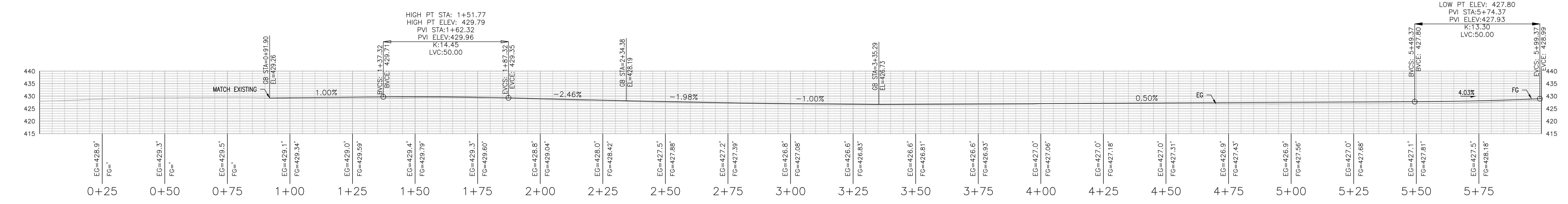
Date: 08/06/21
Scale: 1" = 80'
Drawn: DD
Job: 3007.02
Sheet: **C1.0**
of 31 Sheets

Drawing: 2 (Shaded CAD) 1007.02 - 01 - Site Access - 2.28pm - 10.00am
Layout: C1.0 - ACCESS RD PARALLEL - C1.0 - SITE ACCESS - 2.28pm - 10.00am



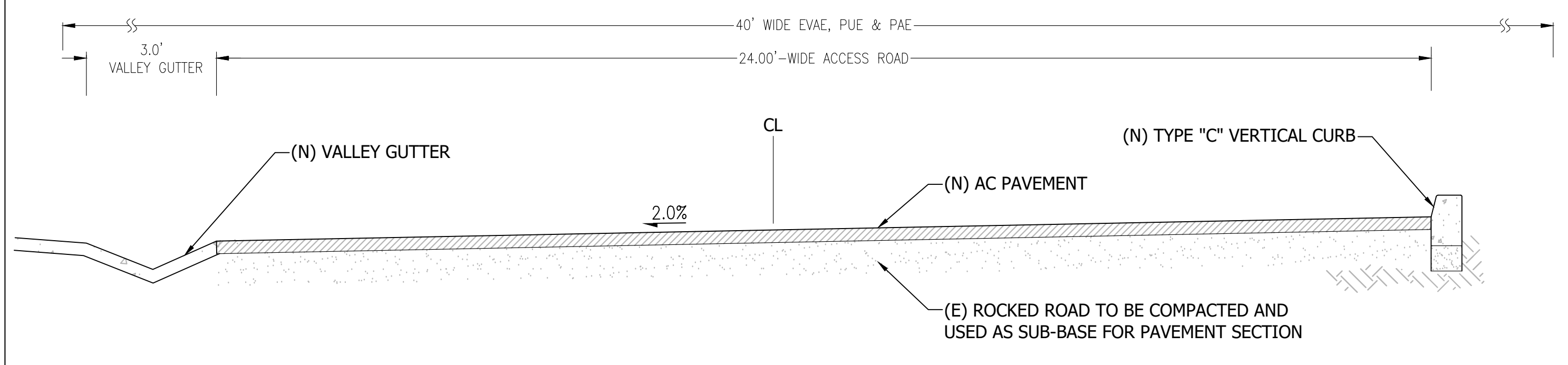
1 EXISTING ACCESS ROAD PLAN

Scale: 1:20



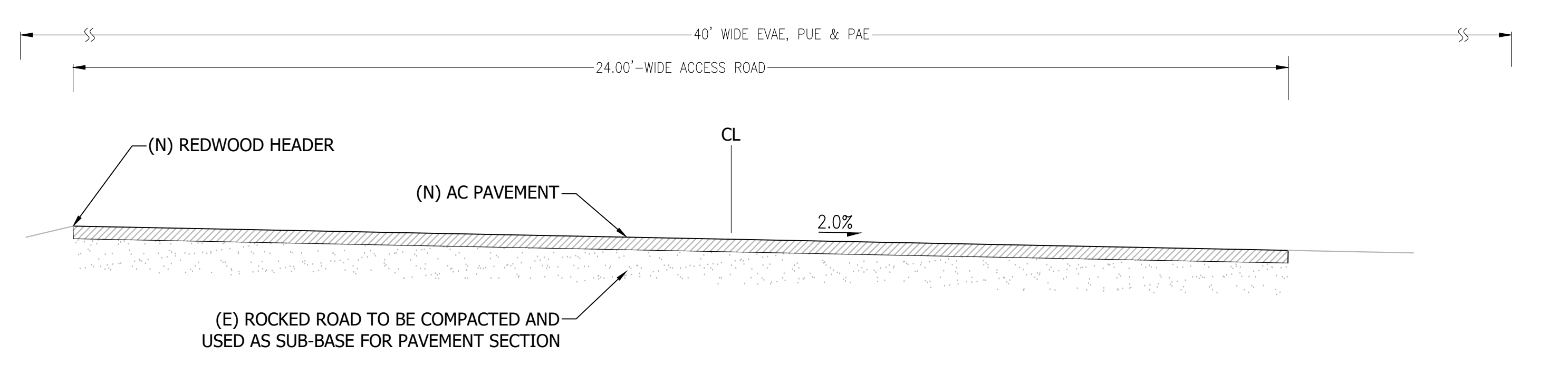
2 ACCESS ROAD PROFILE - STA. 0+00 TO 6+00

Scale: 1:20



3 24'-WIDE ACCESS ROAD SECTION

Scale: 1":2'

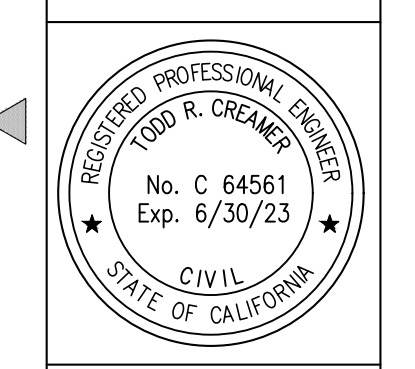


4 24'-WIDE ACCESS ROAD SECTION

Scale: 1":2'

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

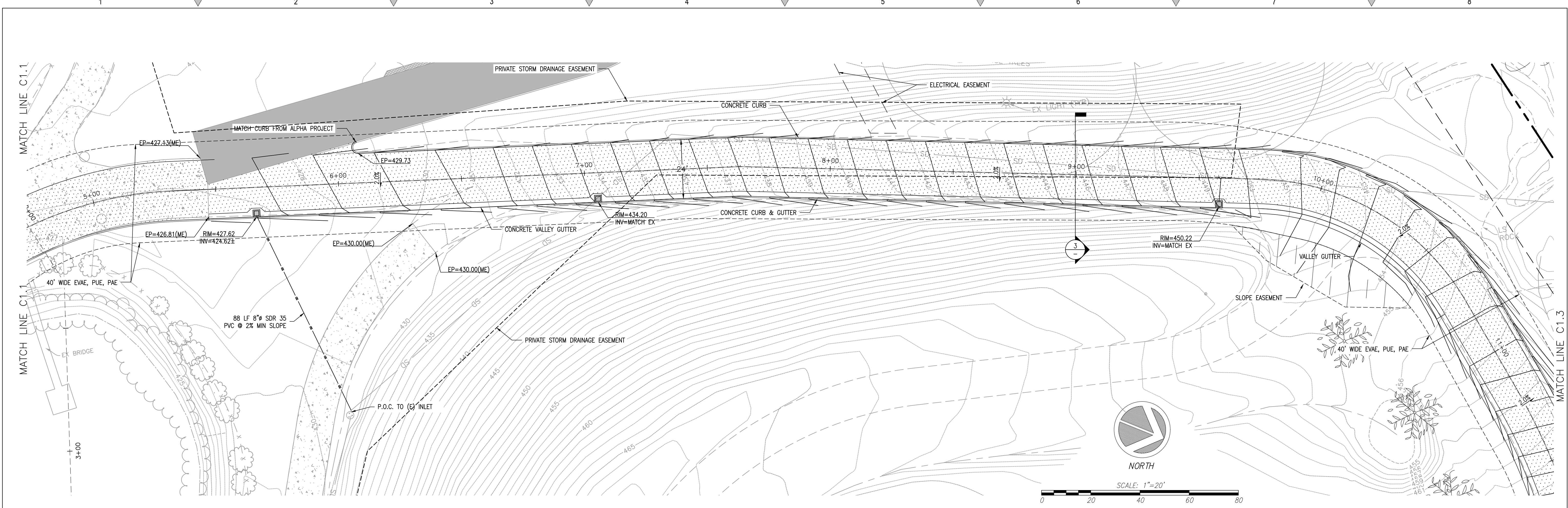
EXISTING ACCESS ROAD PLAN & PROFILES



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

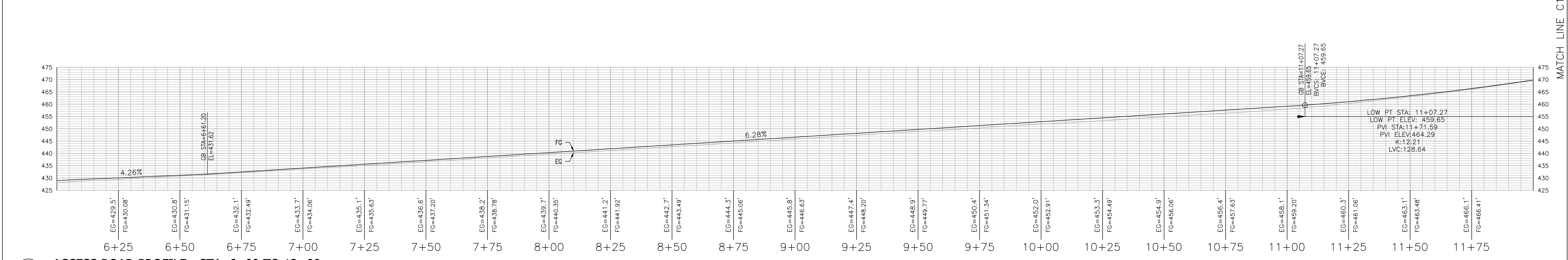
BARSANA RESIDENCE
AUGUSTE COURT
 APN: 029-35-007

Date:	08/06/21
Scale:	1" = 20'
Drawn:	DD
Job:	3007.02
Sheet:	C1.1
Of	31 Sheets



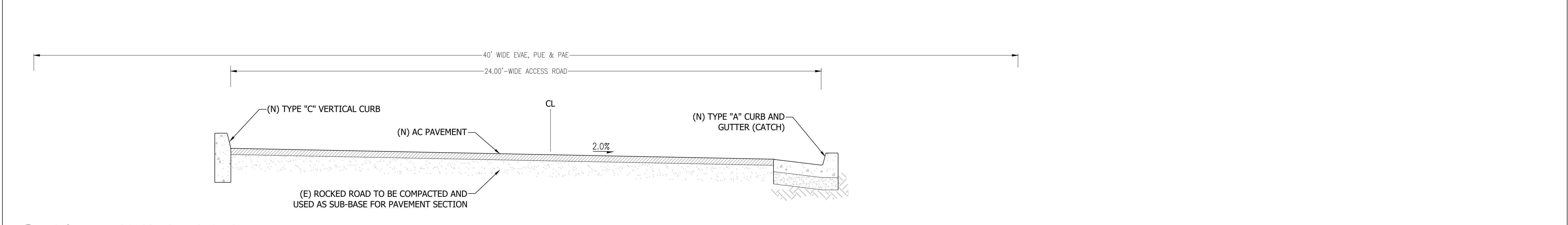
1 PROPOSED ACCESS ROAD PLAN

Scale: 1:20



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

Scale: 1:20

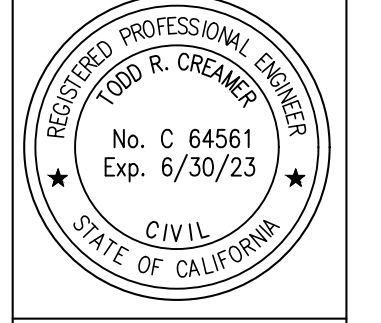


3 24'-WIDE ACCESS ROAD SECTION

Scale: 1":2'

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

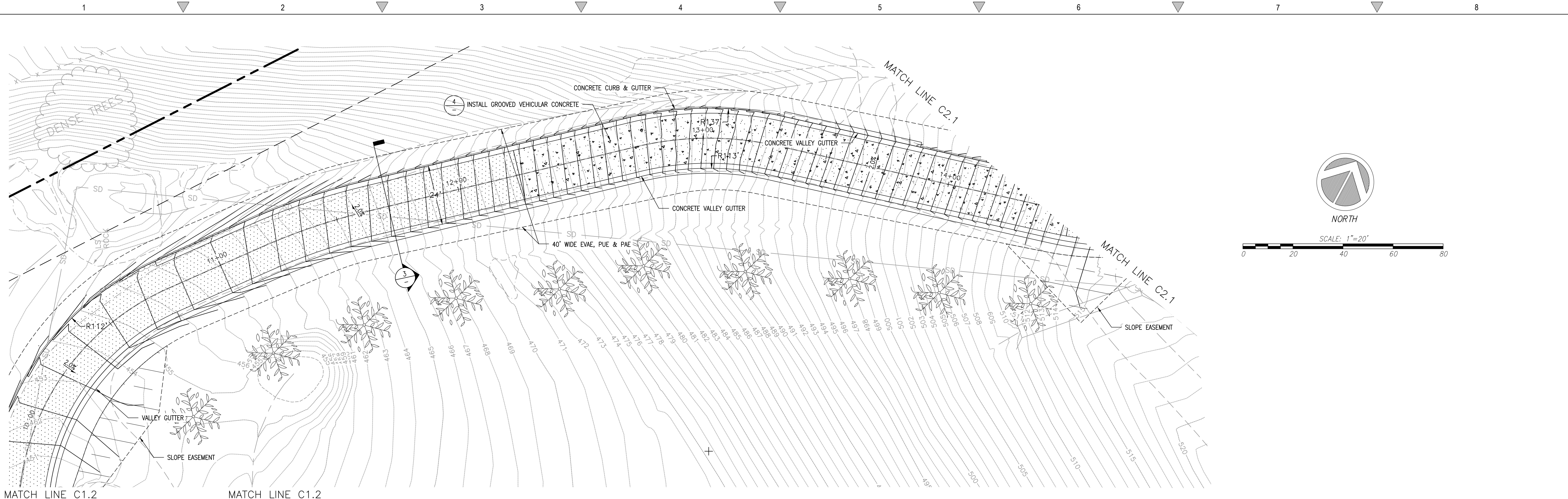
ACCESS ROAD PLAN & PROFILES



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

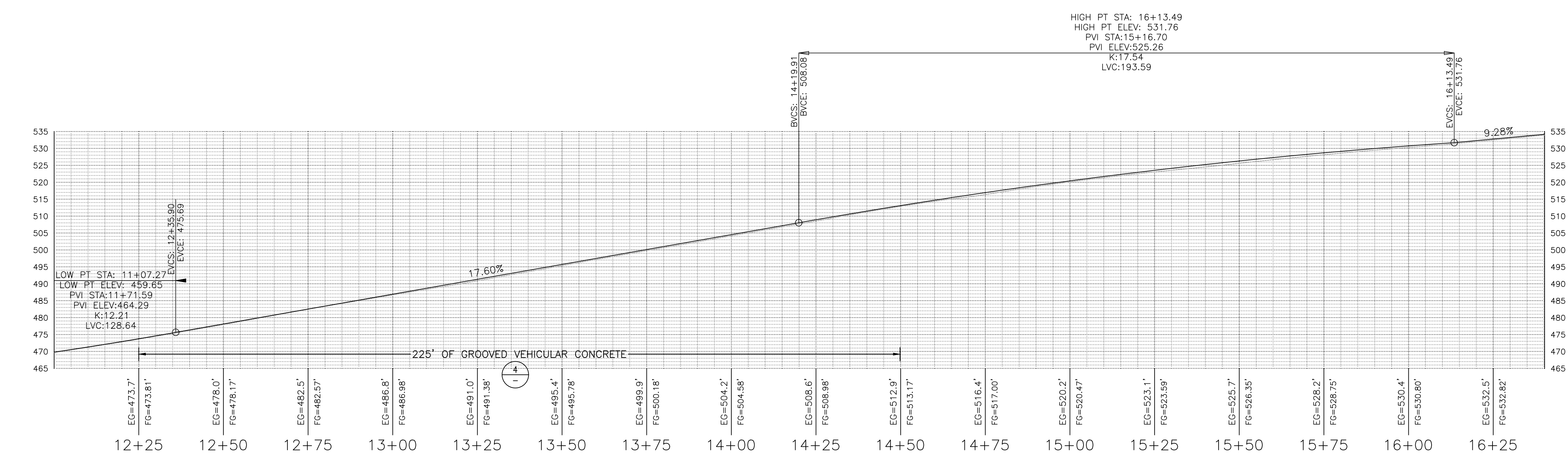
BARSANA RESIDENCE AUGUSTE COURT APN: 029-35-007

Date:	08/06/21
Scale:	1" = 20'
Drawn:	DD
Job:	3007.02
Sheet:	



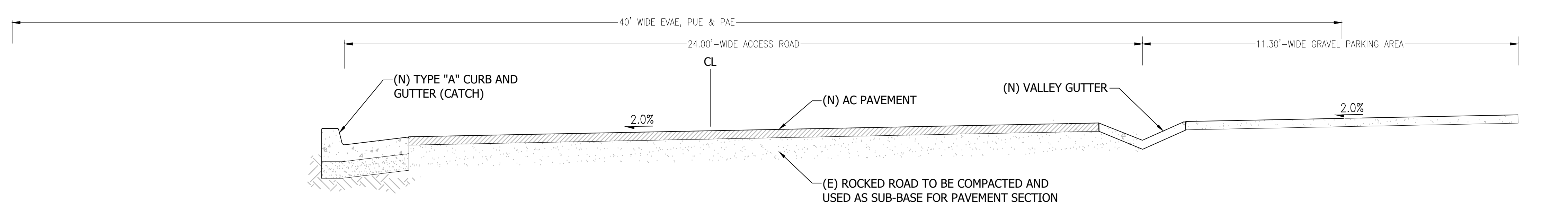
1 PROPOSED ACCESS ROAD PLAN

Scale: 1:20



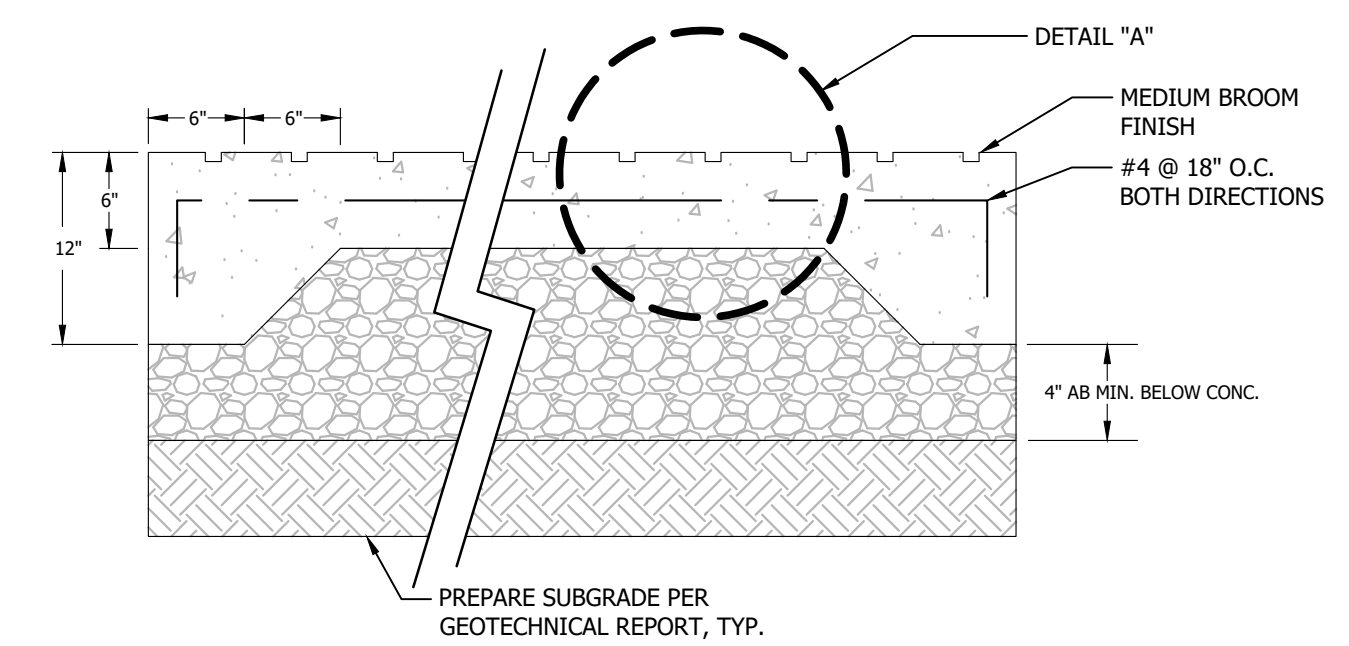
2 ACCESS ROAD PROFILE - STA. 12+00 TO 16+45

Scale: 1:20

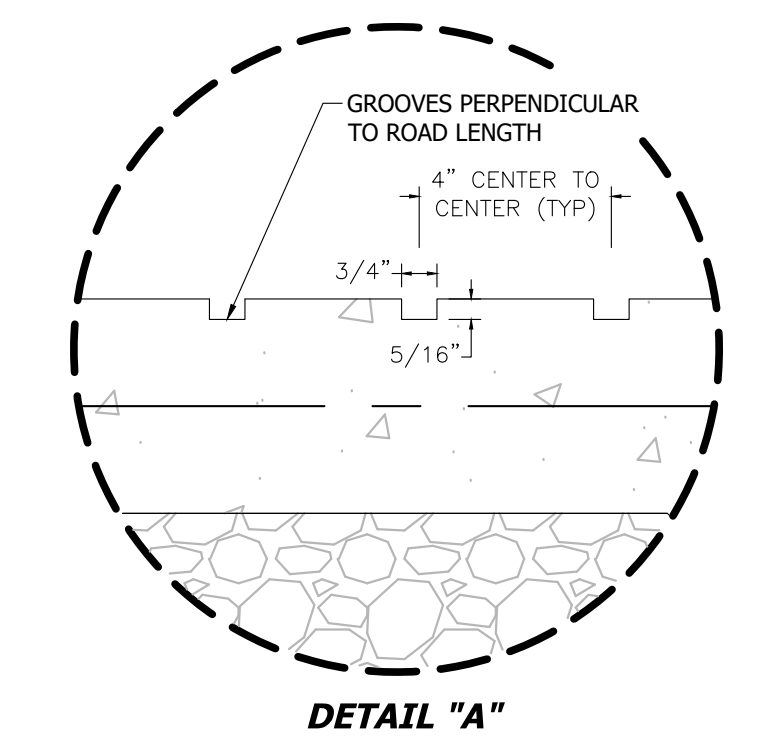


3 24'-WIDE ACCESS ROAD SECTION

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.

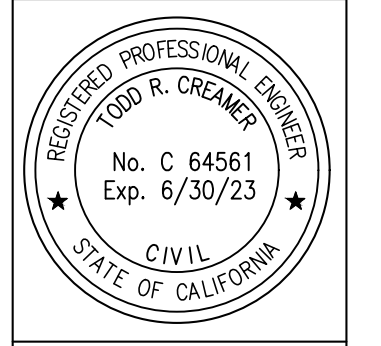


4 VEHICULAR CONCRETE SECTION W/ GROOVES

Scale: NTS

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

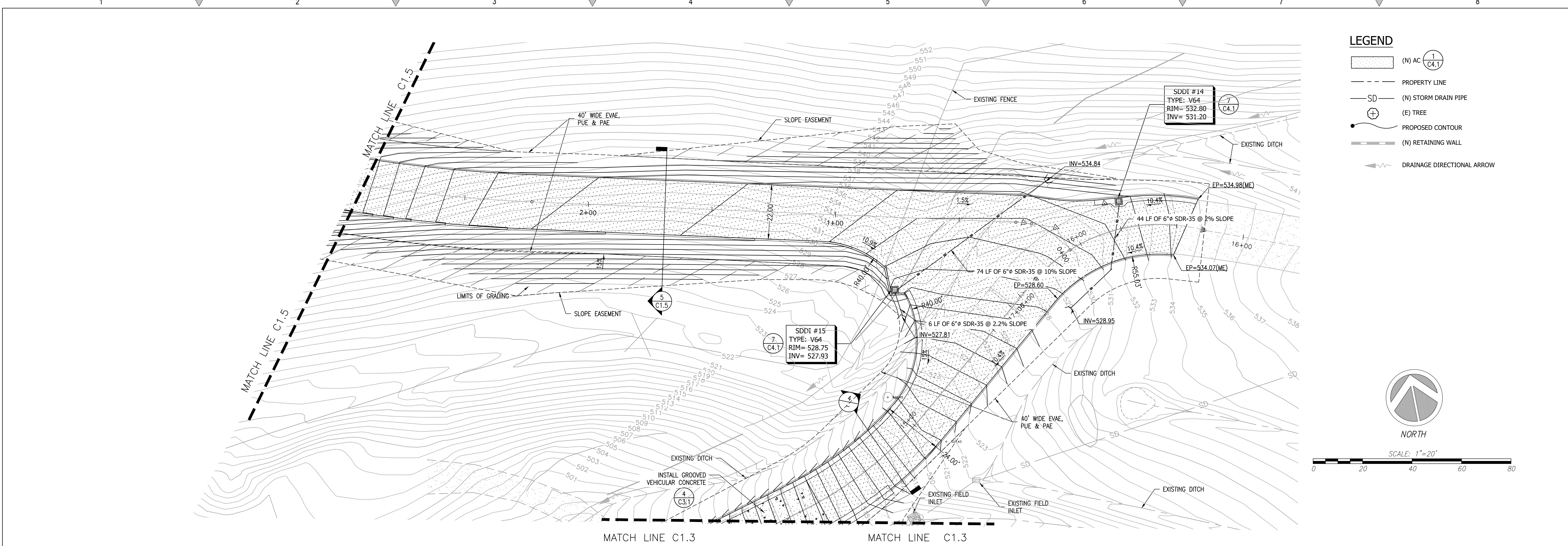
ACCESS ROAD PLAN & PROFILES



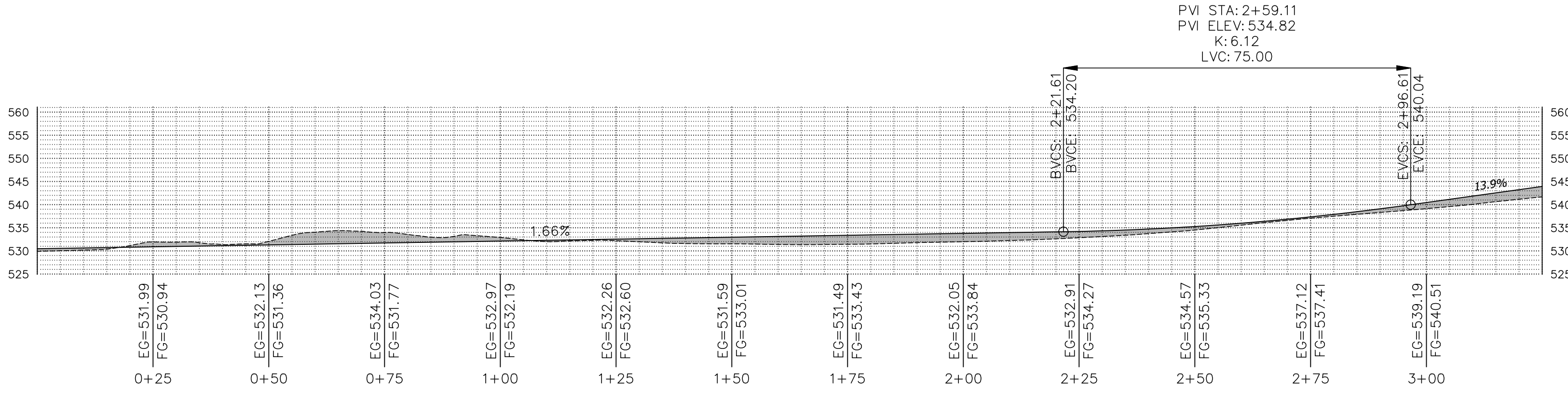
C2G CIVIL CONSULTANTS GROUP, INC.
 Engineers/Planners
 4400 Scotts Valley Road, Suite 6
 Scotts Valley, CA 95066
 T (831) 438-4420 F (831) 438-4420

BARSANA RESIDENCE
AUGUSTE COURT
 APN: 029-35-007

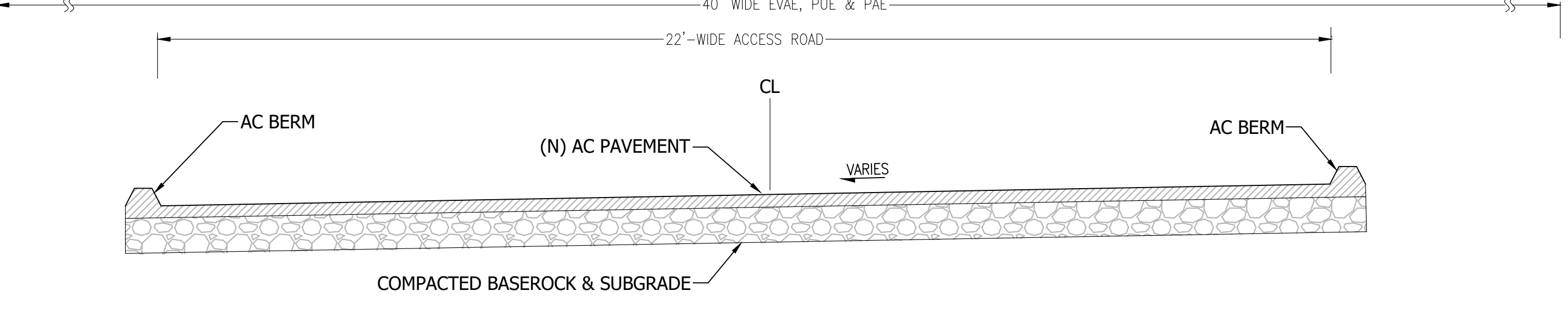
Date: 08/06/21
 Scale: 1" = 20'
 Drawn: DD
 Job: 3007.02
 Sheet: C1.3
 of 31 Sheets



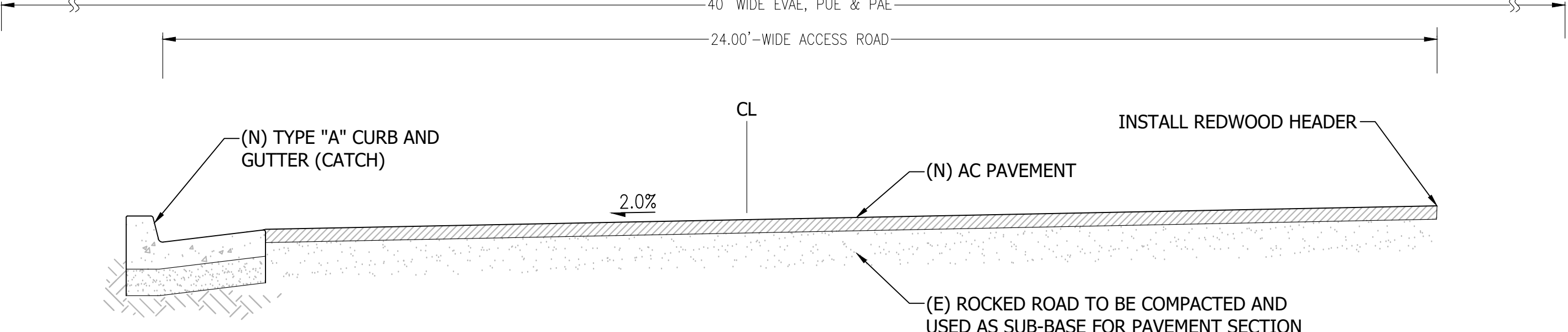
1 ENLARGED SITE PLAN - ACCESS ROAD



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



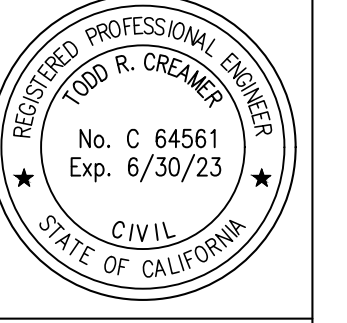
3 22'-WIDE ACCESS ROAD SECTION



4 24'-WIDE ACCESS ROAD SECTION

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

ENLARGED SITE PLAN

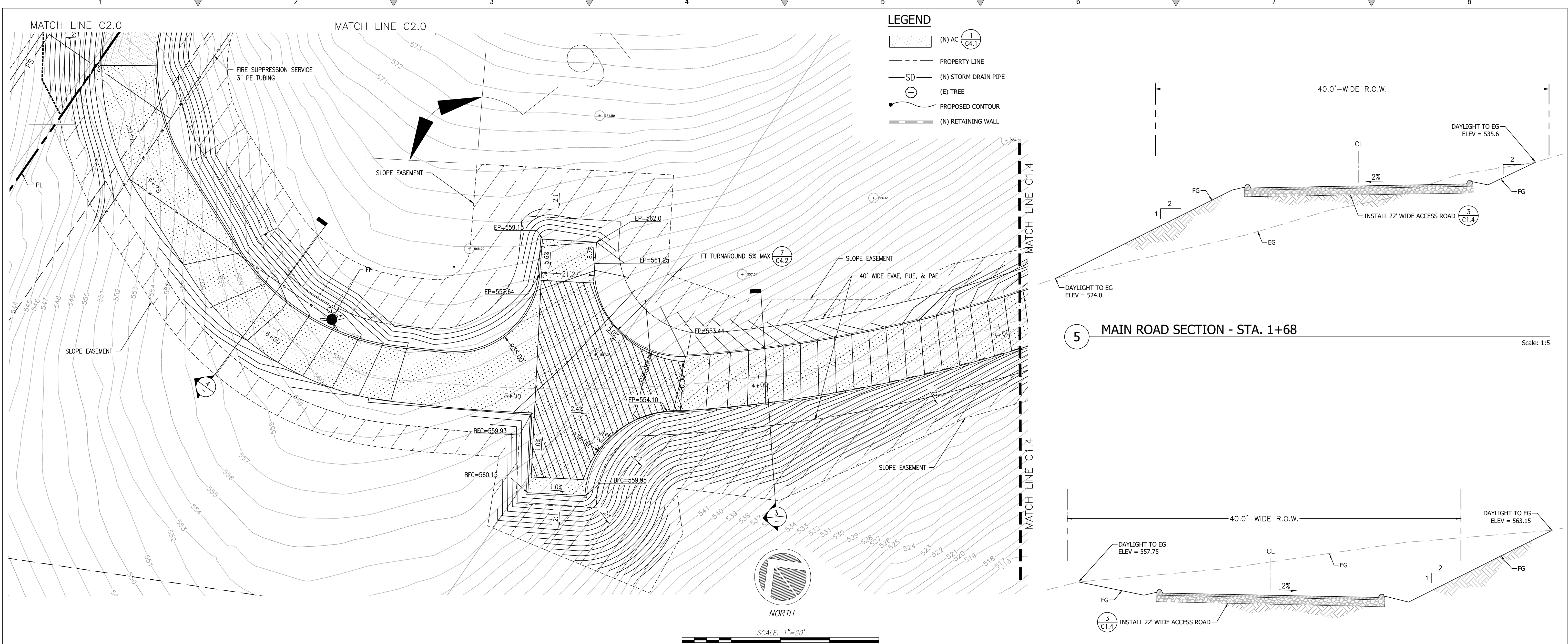


C2G CIVIL CONSULTANTS GROUP, INC.
 Engineers/Planners
 4400 Scotts Valley Blvd., Suite 6
 Scotts Valley, CA 95066
 T (831) 438-4420 F (831) 438-4420

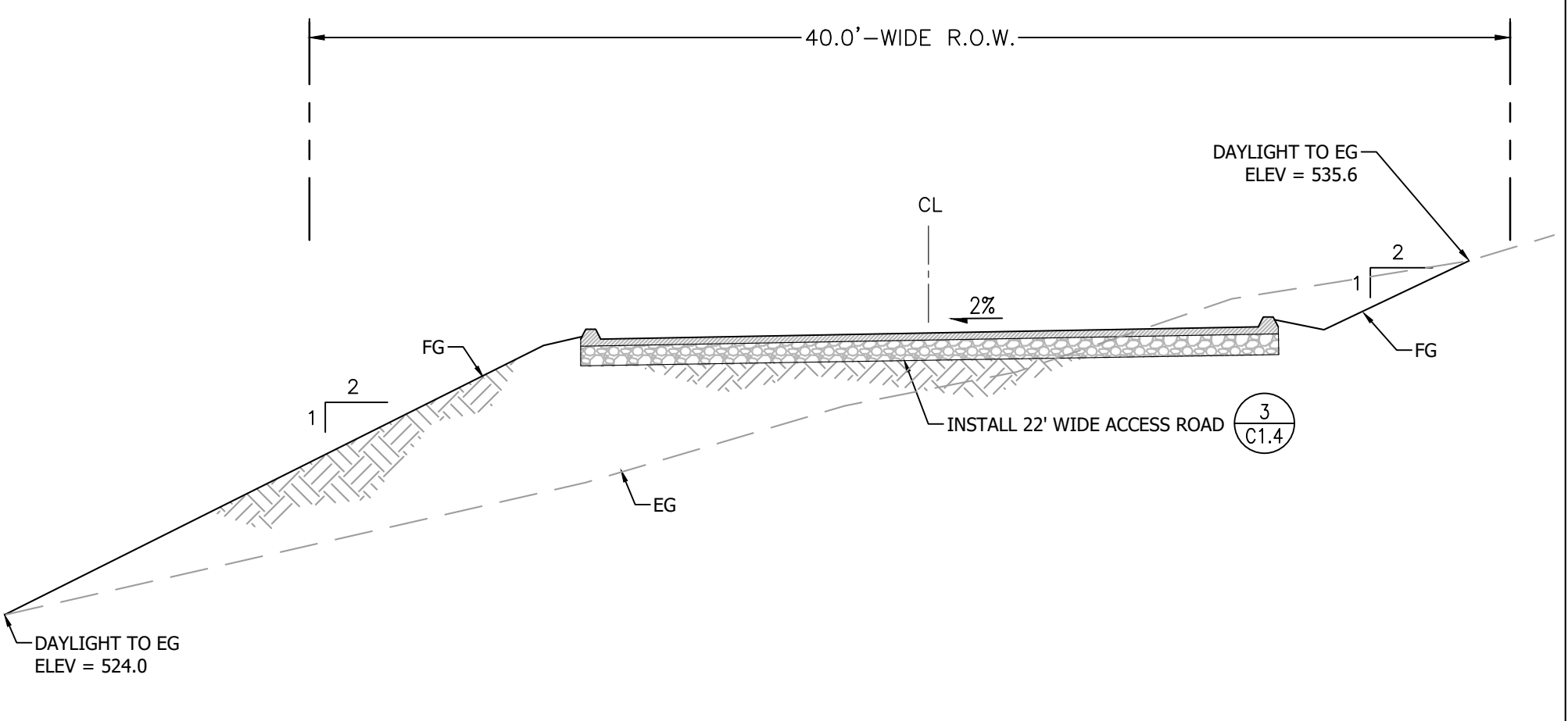
BARSANA RESIDENCE
 AUGUSTE COURT
 APN: 029-35-007

Date: 08/06/21
 Scale: 1" = 20'
 Drawn: DD
 Job: 3007.02

Sheet:
C1.4
 Of 31 Sheets

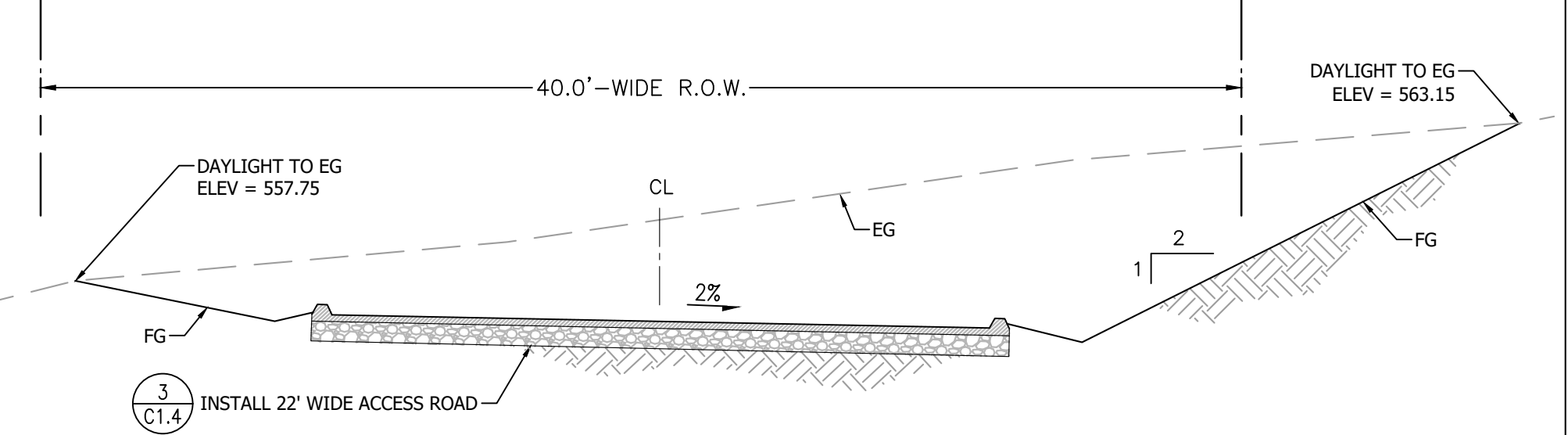


1 ENLARGED SITE PLAN - ACCESS ROAD



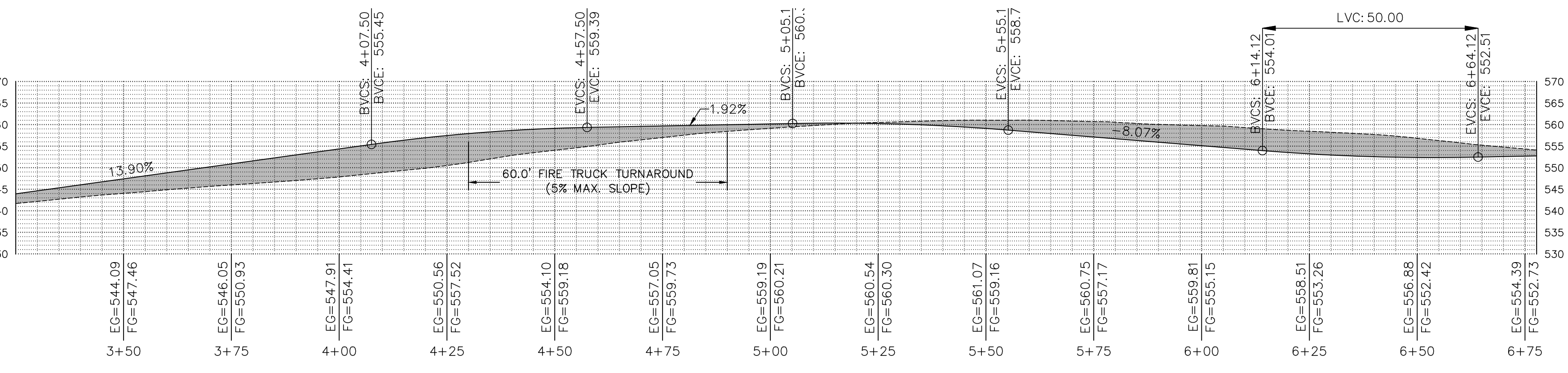
5 MAIN ROAD SECTION - STA. 1+68

Scale: 1:5



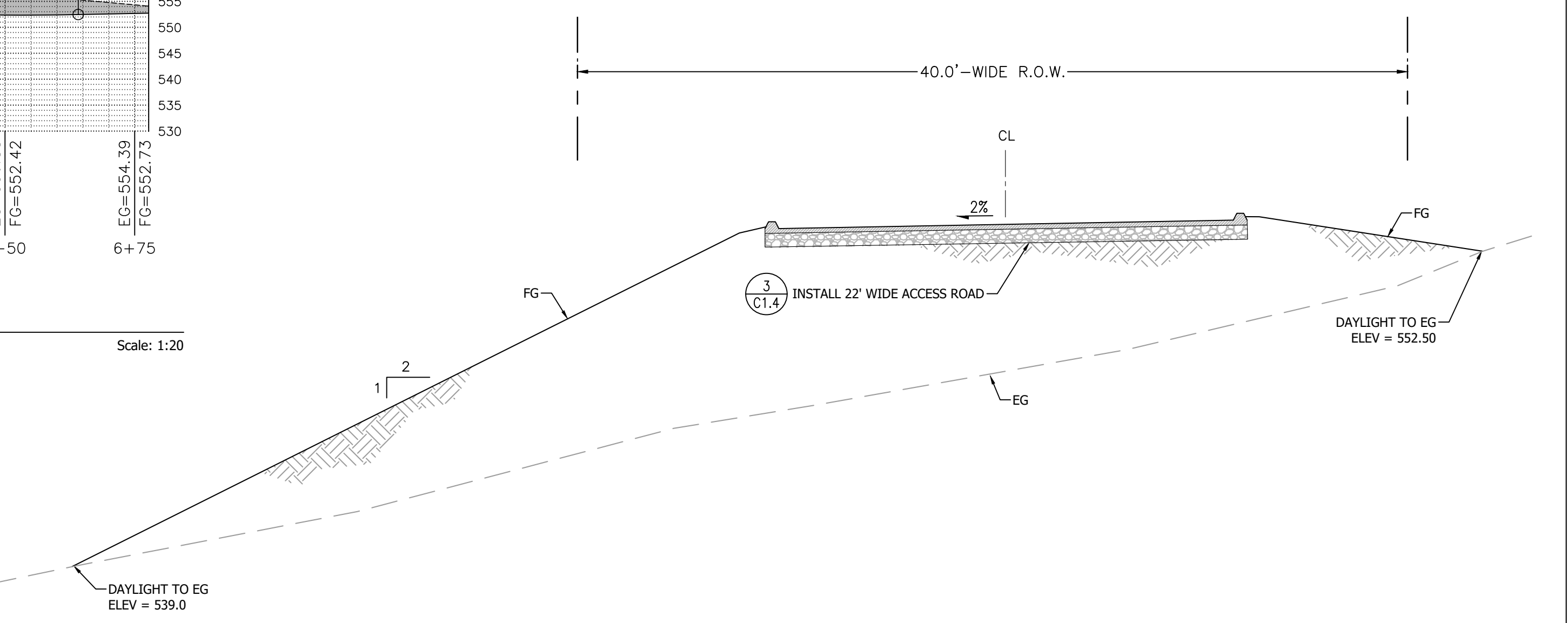
4 MAIN ROAD SECTION - STA. 6+10

Scale: 1:5



2 MAIN ROAD PROFILE - STA. 1+50 TO 6+78

Scale: 1:20

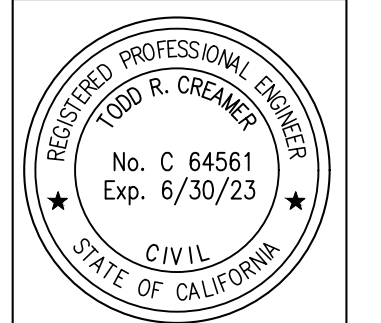


3 MAIN ROAD SECTION - STA. 3+97

Scale: 1:5

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

PROPOSED ACCESS PLAN AND PROFILE



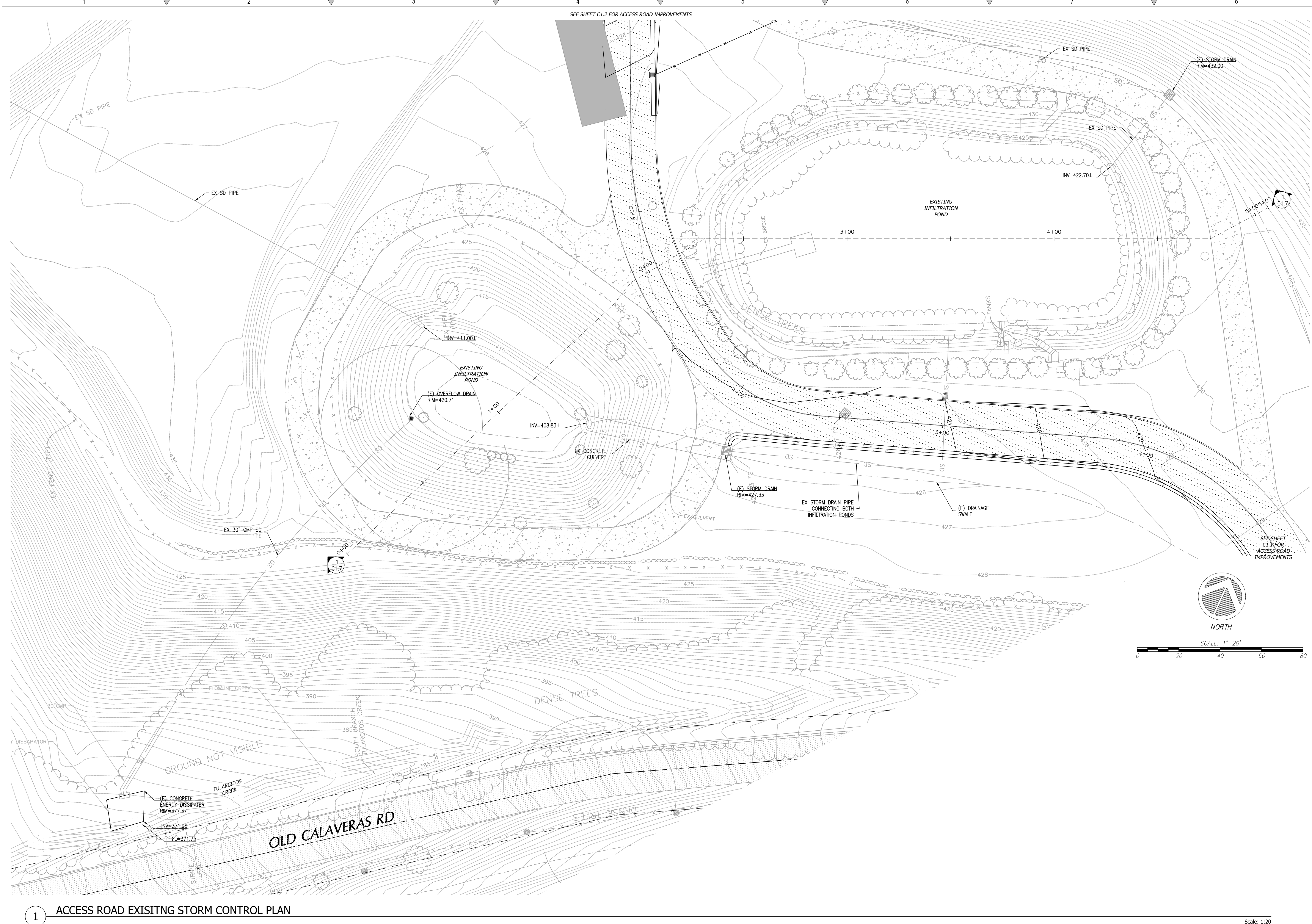
C2G CIVIL CONSULTANTS GROUP, INC.
 Engineers/Planners
 4400 Sycamore / Suite 6
 Scotts Valley, CA 95066
 T (831) 438-4420 F (831) 438-4420

**BARSANA RESIDENCE
 AUGUSTE COURT
 APN: 029-35-007**

Date: 08/06/21
 Scale: 1" = 20'
 Drawn: DD
 Job: 3007.02

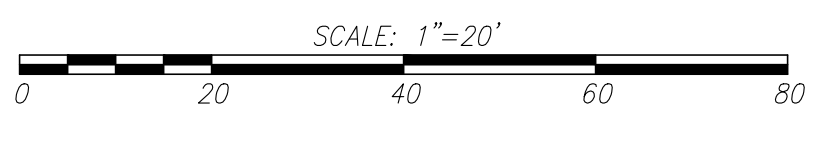
Sheet: **C1.5**
 of 31 Sheets

Drawing: 2 (Sheet) CAD (0007.02) - INF - Super Query 15 Area SPB (Design) CAD (Sheet) 0007.02 - C1.5 - ACCESS STREET PLAN & PROFILE.dwg
 Layout: C1.5 - PLANNING PROFILE
 Last Saved: Wed Oct 26, 2022 - 8:35am
 Last Printed: Fri Mar 24, 2023 - 10:08am
 By: Zane



SEE SHEET C1.2 FOR ACCESS ROAD IMPROVEMENTS

SEE SHEET C1.1 FOR ACCESS ROAD IMPROVEMENTS

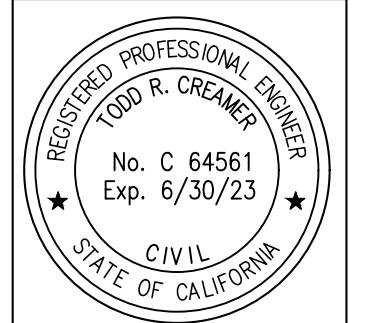


1 ACCESS ROAD EXISTING STORM CONTROL PLAN

Scale: 1:20

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

EXISTING INFILTRATION POND PLAN

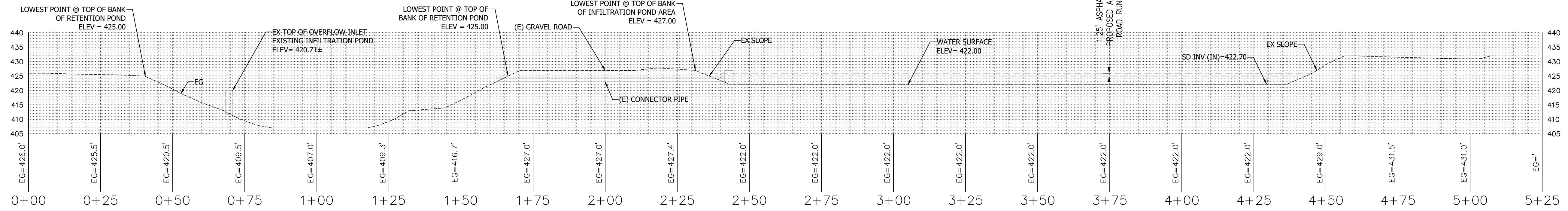


C2G CIVIL CONSULTANTS GROUP, INC.
 Engineers/Planners
 4400 Scotts Valley Blvd., Suite 6
 Scotts Valley, CA 95066
 T (831) 438-4420 F (831) 438-4420

BARSANA RESIDENCE AUGUSTE COURT APN: 029-35-007

Date:	08/06/21
Scale:	1" = 20'
Drawn:	DD
Job:	3007.02
Sheet:	C1.6
Of	31 Sheets

Drawing: 2: (Shared CAD) 3007.02 - INF - Storm Drainage (CAD) Sheets 3007.02 - C1.6 - EX. INFILTRATION POND PLAN
 Layout: C1.6 - 3007 - 08/06/21
 Last Saved: Fri Mar 03, 2023 - 1:18pm
 Last Printed: Fri Mar 24, 2023 - 10:05am
 By: Dwan



1 EXISTING INFILTRATION POND, DRAIN AND OVERFLOW STRUCTURE

Scale: 1" = 20'

3/3/2023							
15 Acre Lot - Barsana							
Runoff to existing retention pond							
	MAP (inches) =	30		CPOST =	0.85		
	DMA Area (sf) =	43133		CPRE =	0.35		
	Imp. Area (sf) =	43133					
Prop. Struct. =	length (ft) =	124		Void Space =	1		
	width (ft) =	124		Infiltr Rate (in/hr) =	2.5		
	depth (ft) =	2.00					
T (min)	100-Yr Depth (in)	Intensity (in/hr)	Pre Q (cfs)	Post Q (cfs)	Required Retention Rate (cfs)	Soil Infiltration Rate (cfs)	Storage Vol. (Cu. Ft.)
5	0.31	3.74	1.295	3.145	1.850	0.651	359.662
10	0.44	2.61	0.906	2.199	1.294	0.651	385.531
15	0.52	2.06	0.715	1.737	1.022	0.651	333.476
30	0.77	1.54	0.534	1.297	0.763	0.651	201.184
60	1.11	1.11	0.386	0.937	0.551	0.651	-359.933
120	1.62	0.81	0.281	0.682	0.401	0.651	-1800.072
180	2.02	0.67	0.234	0.567	0.334	0.651	-3428.231
360	3.19	0.53	0.184	0.447	0.263	0.651	-8377.802
720	3.22	0.27	0.093	0.226	0.133	0.651	-22382.661
						Proposed Structure Storage Check =	38440.000

BASED ON THE INFILTRATION RATE AND THE SIZE OF THE EXISTING INFILTRATION POND, THE INCREASED HEIGHT OF RUNOFF CAUSED BY THE NEW ACCESS ROAD IS 3/4".

(E) WTR EL = 422.00 + .07 = 422.07 (N) WTR EL

2 STORMWATER CALCULATIONS

PHASE 1

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

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

IMPERVIOUS AREA		
DESCRIPTION	SQ. FT.	ACRES
ROOF	738	0.0169
CONC.	485	0.0111
TOTAL	1223	0.0281

PHASE 2

NEW IMPERVIOUS AREA		
DESCRIPTION	AREA (SF)	ACRES
BUILDING & GARAGE	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

PHASE 3

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	5803	0.1332
AC	37307	0.8565
CONC.	8728	0.2004
TOTAL	51838	1.1900

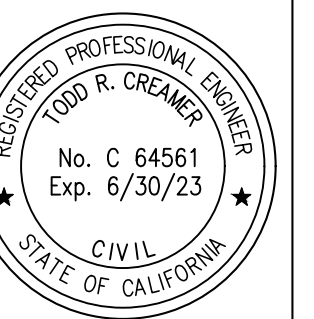
WATER TANK

DEV23-0115

IMPERVIOUS AREA		
DESCRIPTION	SQ. FT.	ACRES
WATER TANK	1998	0.0459
CONC.	699	0.0160
TOTAL	2697	0.0619

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

EXISTING INFILTRATION POND PLAN

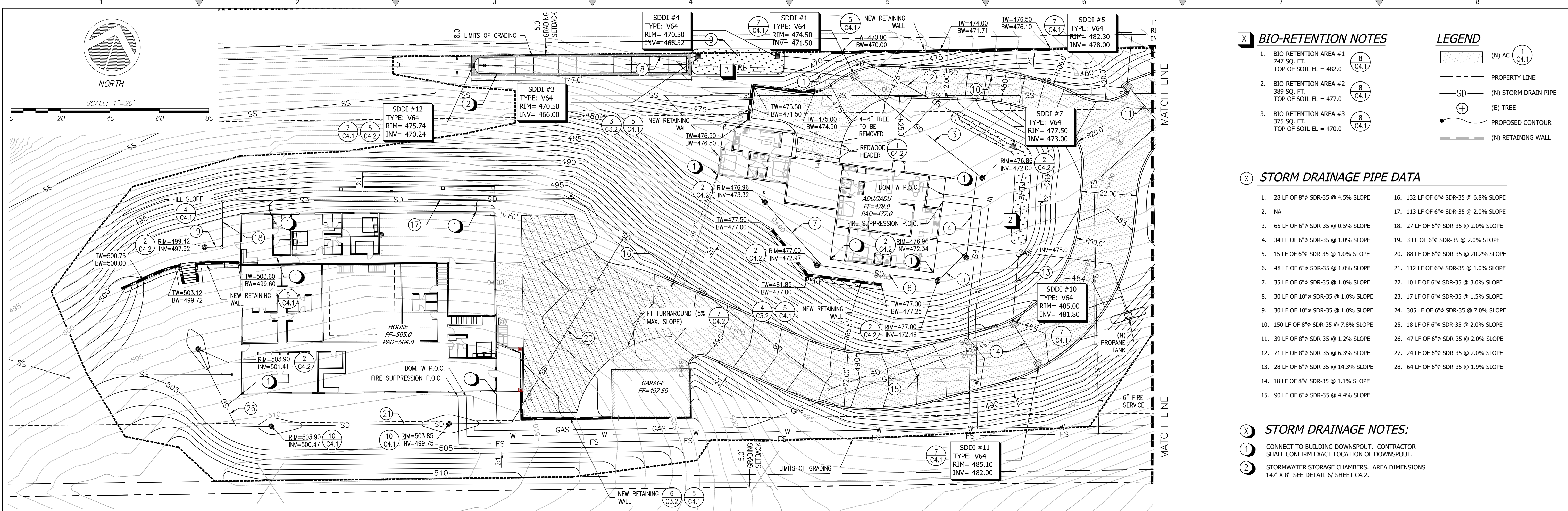


C2G CIVIL CONSULTANTS GROUP, INC.
Engineers/Planners
4400 Scotts Valley Blvd., Suite 6
Scotts Valley, CA 95066
T (831) 438-4420 F (831) 438-4420
Leaf Photos: Fri Mar 24, 2023 - 9:58am Leaf Photos: Fri Mar 24, 2023 - 10:00am By: Zow

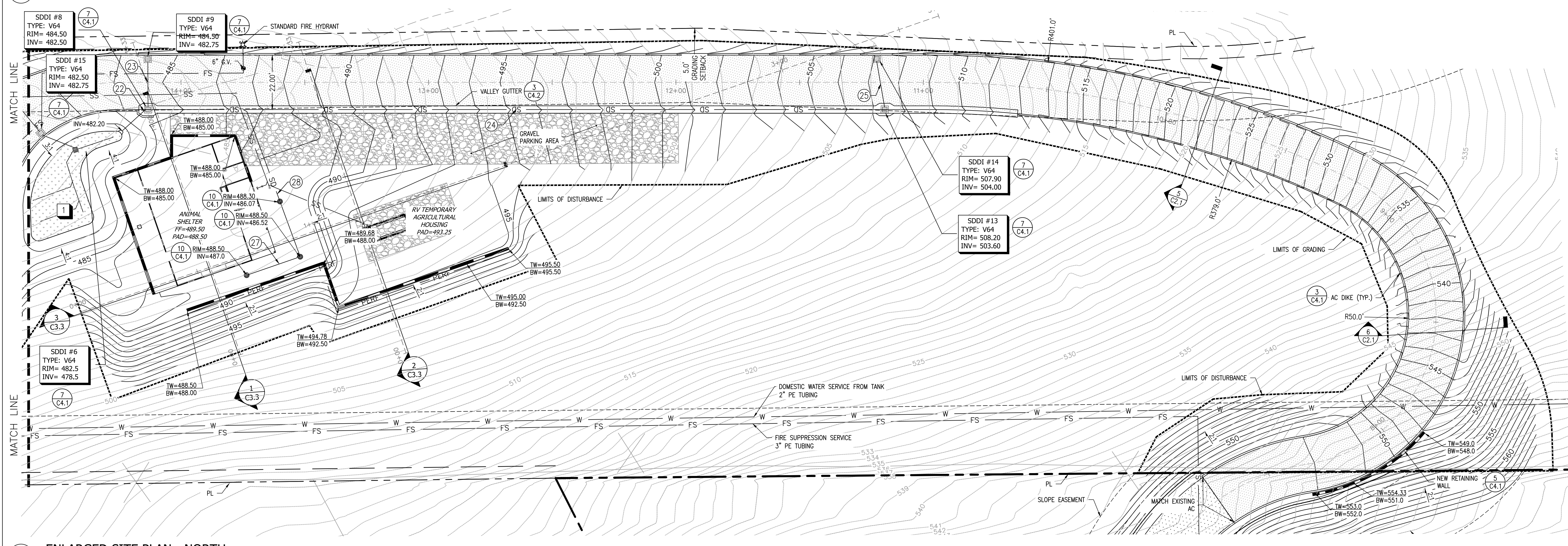
BARSANA RESIDENCE
AUGUSTE COURT
APN: 029-35-007

Date: 08/06/21
Scale: 1" = 20'
Drawn: DD
Job: 3007.02

Sheet:
C1.7
Of 31 Sheets



1 ENLARGED SITE PLAN - SOUTH



2 ENLARGED SITE PLAN - NORTH

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

LEGEND

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

STORM DRAINAGE PIPE DATA

- | | |
|--------------------------------------|--------------------------------------|
| 1. 28 LF OF 8" SDR-35 @ 4.5% SLOPE | 16. 132 LF OF 6" SDR-35 @ 6.8% SLOPE |
| 2. NA | 17. 113 LF OF 6" SDR-35 @ 2.0% SLOPE |
| 3. 65 LF OF 6" SDR-35 @ 0.5% 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. 35 LF OF 6" SDR-35 @ 1.0% SLOPE | 22. 10 LF OF 6" SDR-35 @ 3.0% SLOPE |
| 8. 30 LF OF 10" SDR-35 @ 1.0% SLOPE | 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. 150 LF OF 8" SDR-35 @ 7.8% SLOPE | 25. 18 LF OF 6" SDR-35 @ 2.0% SLOPE |
| 11. 39 LF OF 8" SDR-35 @ 1.2% SLOPE | 26. 47 LF OF 6" SDR-35 @ 2.0% SLOPE |
| 12. 71 LF OF 8" SDR-35 @ 6.3% SLOPE | 27. 24 LF OF 6" SDR-35 @ 2.0% SLOPE |
| 13. 28 LF OF 6" SDR-35 @ 14.3% SLOPE | 28. 64 LF OF 6" SDR-35 @ 1.9% SLOPE |
| 14. 18 LF OF 8" SDR-35 @ 1.1% 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 147' X 8' SEE DETAIL 6/ SHEET C4.2.

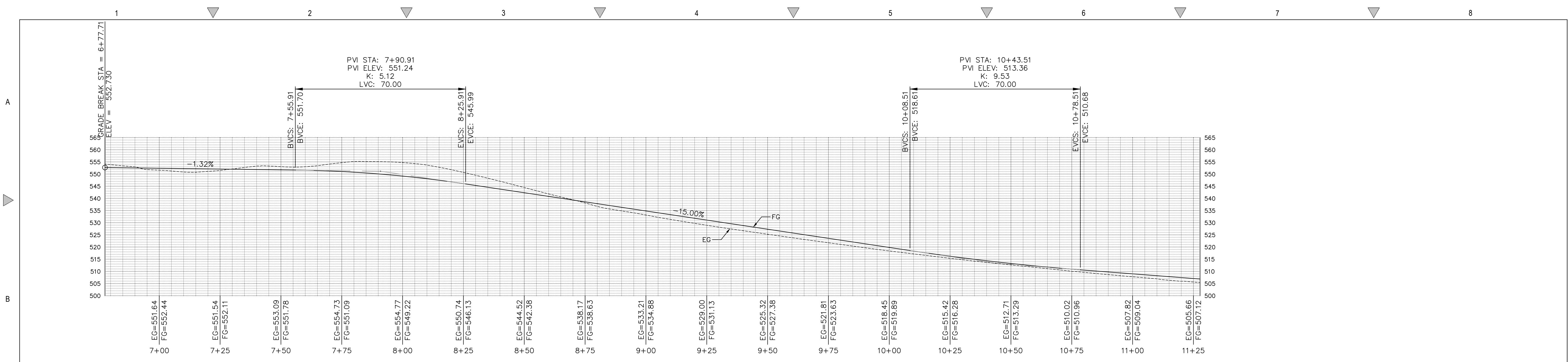
REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD

ENLARGED SITE PLAN

C2G CIVIL CONSULTANTS GROUP, INC.
 Engineers/Planners
 4400 Scotts Valley Blvd., Suite 6
 Scotts Valley, CA 95066
 T (831) 438-4420 F (831) 438-4420

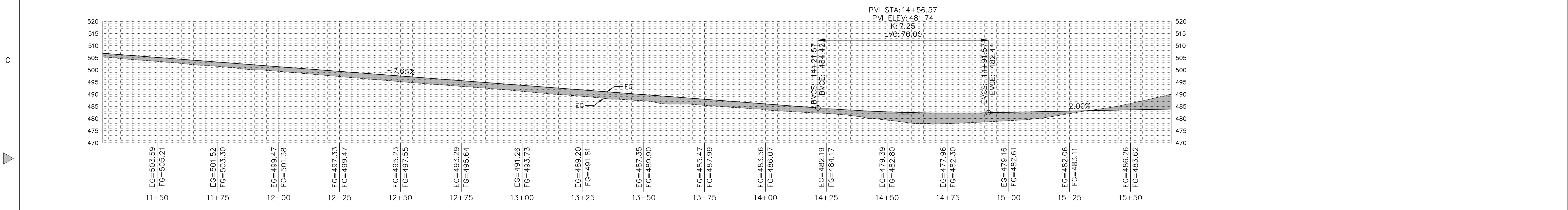
BARSANA RESIDENCE
 AUGUSTE COURT
 APN: 029-35-007

Date: 08/06/21
 Scale: 1" = 20'
 Drawn: DD
 Job: 3007.02
 Sheet: **C2.0**
 of 31 Sheets



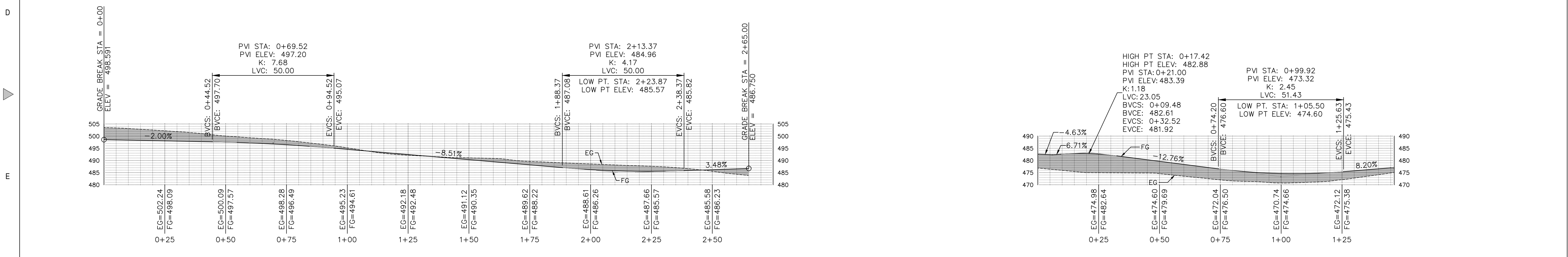
1 MAIN ROAD PROFILE - STA. 6+78 TO 11+28

Scale: 1:20



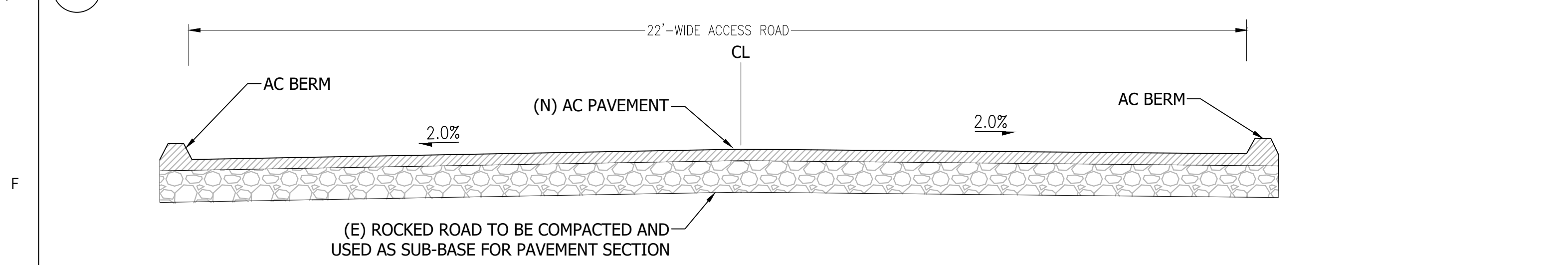
2 MAIN ROAD PROFILE - STA. 11+28 TO 15+67

Scale: 1:20



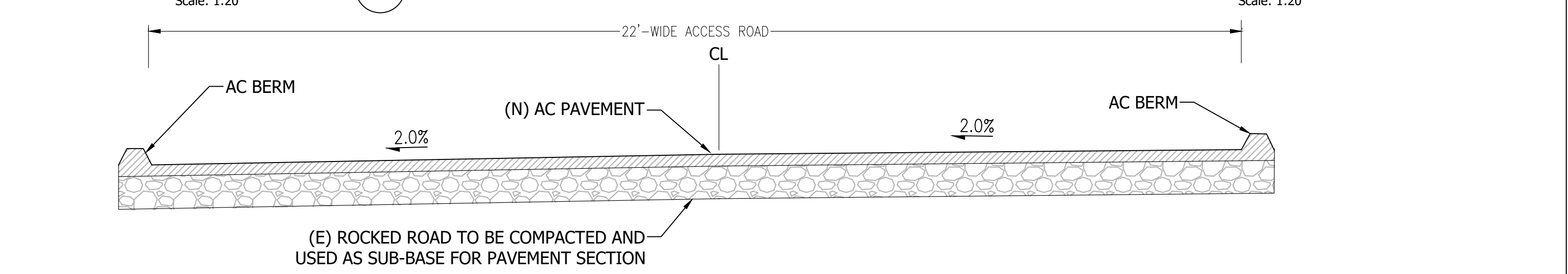
3 MAIN HOUSE DRIVEWAY PROFILE - STA. 0+00 TO 3+25

4 ADU DRIVE PROFILE - STA. 0+00 TO 1+47



5 22'-WIDE ACCESS ROAD SECTION

Scale: 1":2'

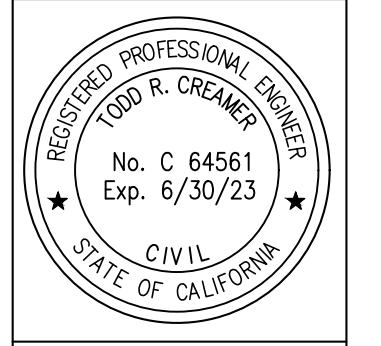


6 22'-WIDE ACCESS ROAD SECTION

Scale: 1":2'

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

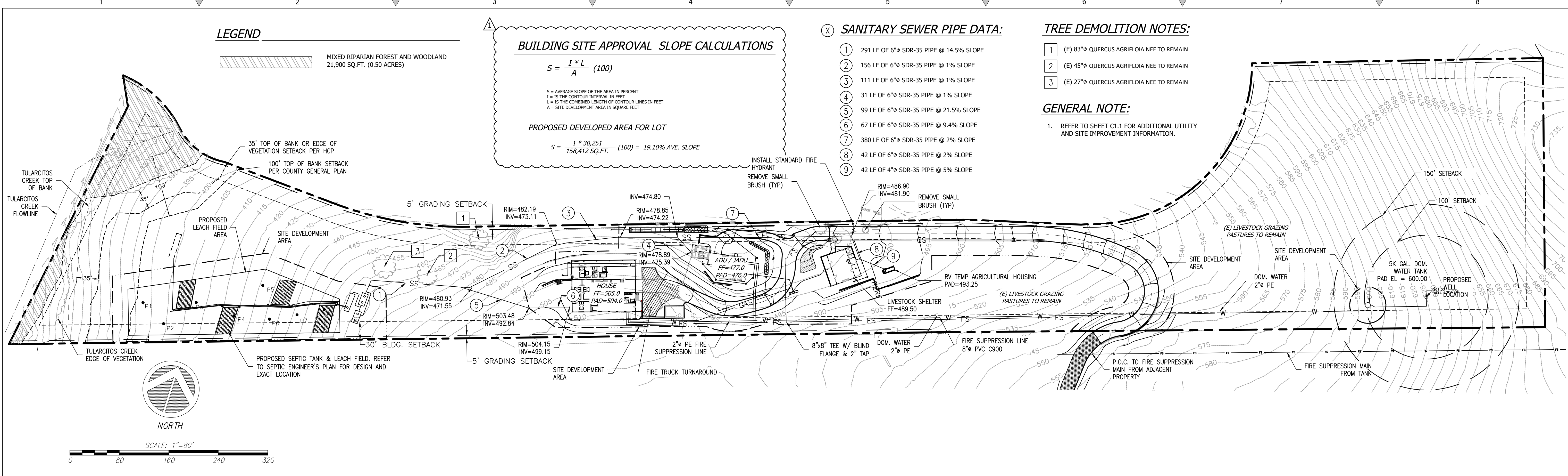
PROFILES / SECTIONS



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
 Last Revised: Fri Mar 24, 2023 - 10:58am By: Zow

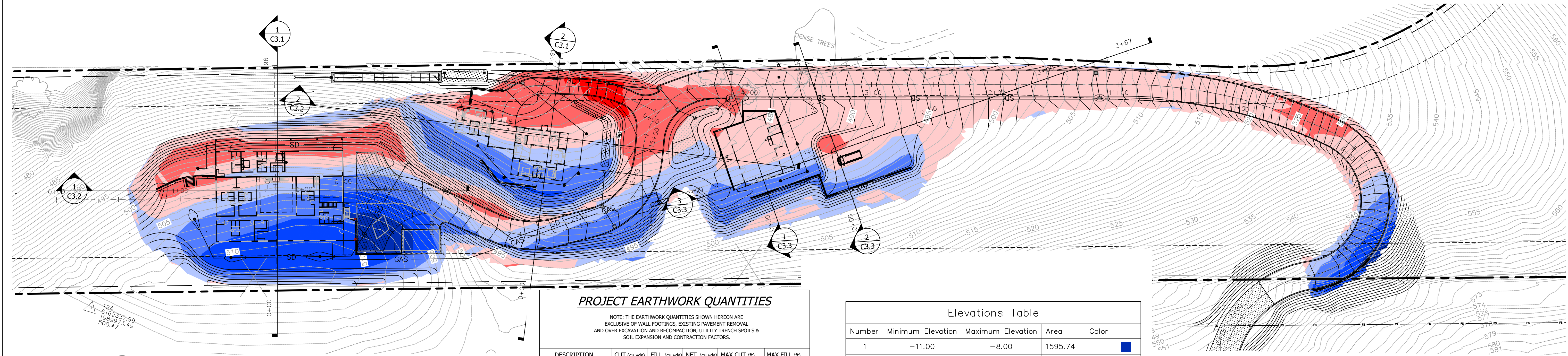
BARSANA RESIDENCE
AUGUSTE COURT
 APN: 029-35-007

Date:	08/06/21
Scale:	1" = 20'
Drawn:	DD
Job:	3007.02
Sheet:	C2.1



1 ENLARGED SITE PLAN

Scale: 1"=80'



2 CUT AND FILL ANALYSIS

Scale: 1"=40'

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
MAIN BUILDING	682	418	264(C)	8	6
ADU/JADU	401	323	78(C)	5	4
ROAD (APN 029-35-007)	2808	2786	22(C)	11	7
ROAD (APN 029-34-004)	1746	2219	473(F)	6	8
LIVESTOCK SHELTER & RV PARKING	445	142	303(C)	3	3
TOTAL	6082	5888	194(C)		

NET VOLUME = 194 CU.YDS. OF CUT

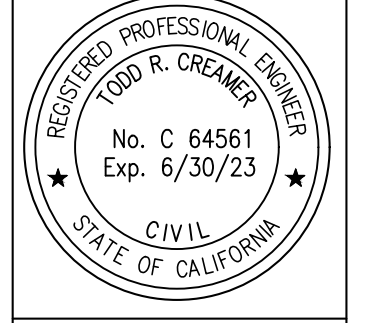
THE ABOVE QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE NECESSARY CUT AND FILL TO ACCOMPLISH FINISH GRADE SHOWN ON THESE PLANS.

Elevations Table

Number	Minimum Elevation	Maximum Elevation	Area	Color
1	-11.00	-8.00	1595.74	Blue
2	-8.00	-5.00	7420.26	Blue
3	-5.00	-2.00	16853.64	Blue
4	-2.00	0.00	22029.55	Light Blue
5	0.00	2.00	40126.60	Light Red
6	2.00	5.00	13504.60	Red
7	5.00	8.00	773.62	Red
8	8.00	10.00	0.00	Red

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

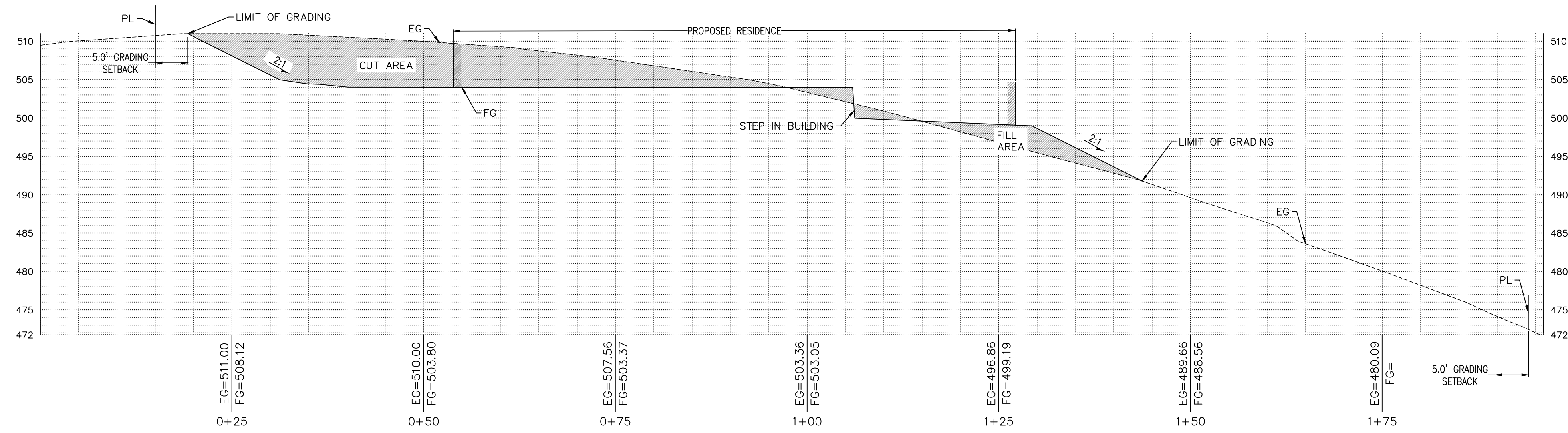
OVERALL SITE PLAN & CUT/FILL ANALYSIS



C2G CIVIL CONSULTANTS GROUP, INC.
 Engineers/Planners
 4400 Scotts Valley, CA 95066
 T (831) 438-4420 F (831) 438-4420

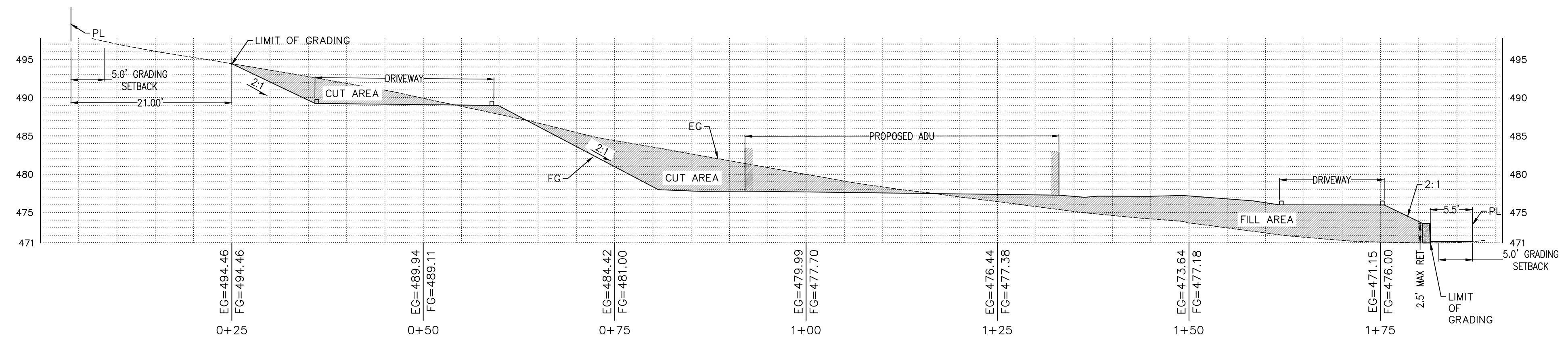
BARSANA RESIDENCE
 AUGUSTE COURT
 APN: 029-35-007

Date: 08/06/21
 Scale: AS SHOWN
 Drawn: DD
 Job: 3007.02
 Sheet: **C3.0**
 of 31 Sheets



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

CUT/FILL SECTIONS

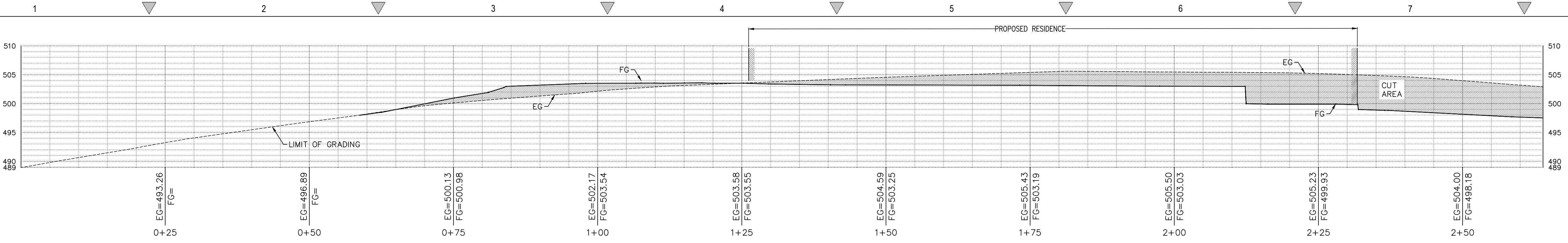


C2G CIVIL CONSULTANTS GROUP, INC.
 Engineers/Planners
 4400 Scotts Valley Road, Suite 6
 Scotts Valley, CA 95066
 T (831) 438-4420 F (831) 438-4420
 Last Printed: Fri Mar 24, 2023 - 10:11am By: zow

BARSANA RESIDENCE
 AUGUSTE COURT
 APN: 029-35-007

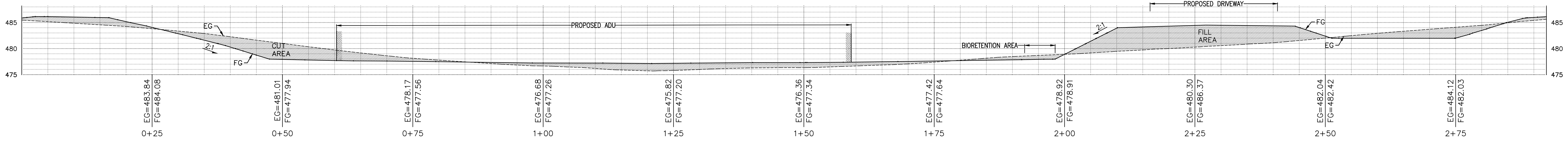
Date:	08/06/21
Scale:	AS SHOWN
Drawn:	DD
Job:	3007.02
Sheet:	C3.1
Of	31 Sheets

Drawing: Z:\Shared\CAD\3007.02 - inf - Steps Query 15.sxd SPS [Design] [CAD] Sheets\3007.02 - C3.1 - SECTIONS (DITTLER).dwg Layout: C3.1 - Cut Sheet: Tue Oct 26, 2022 - 5:36pm



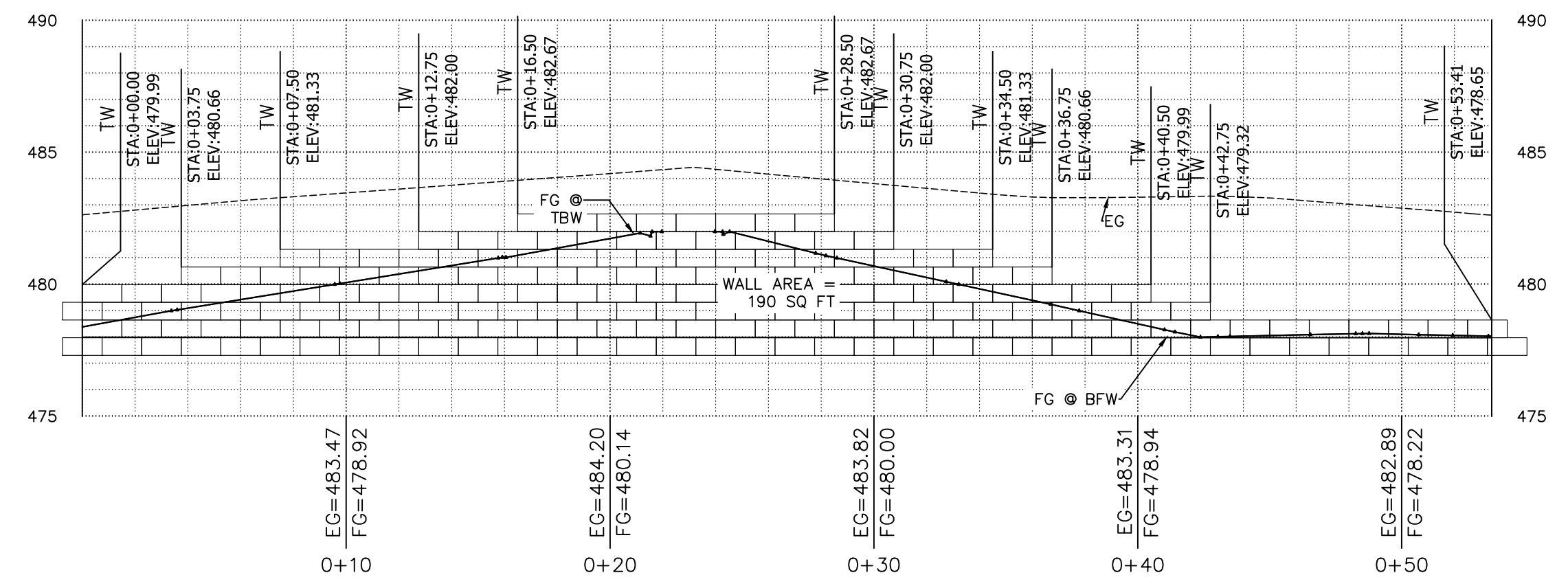
1 MAIN HOUSE CROSS SECTION

Scale: 1:10



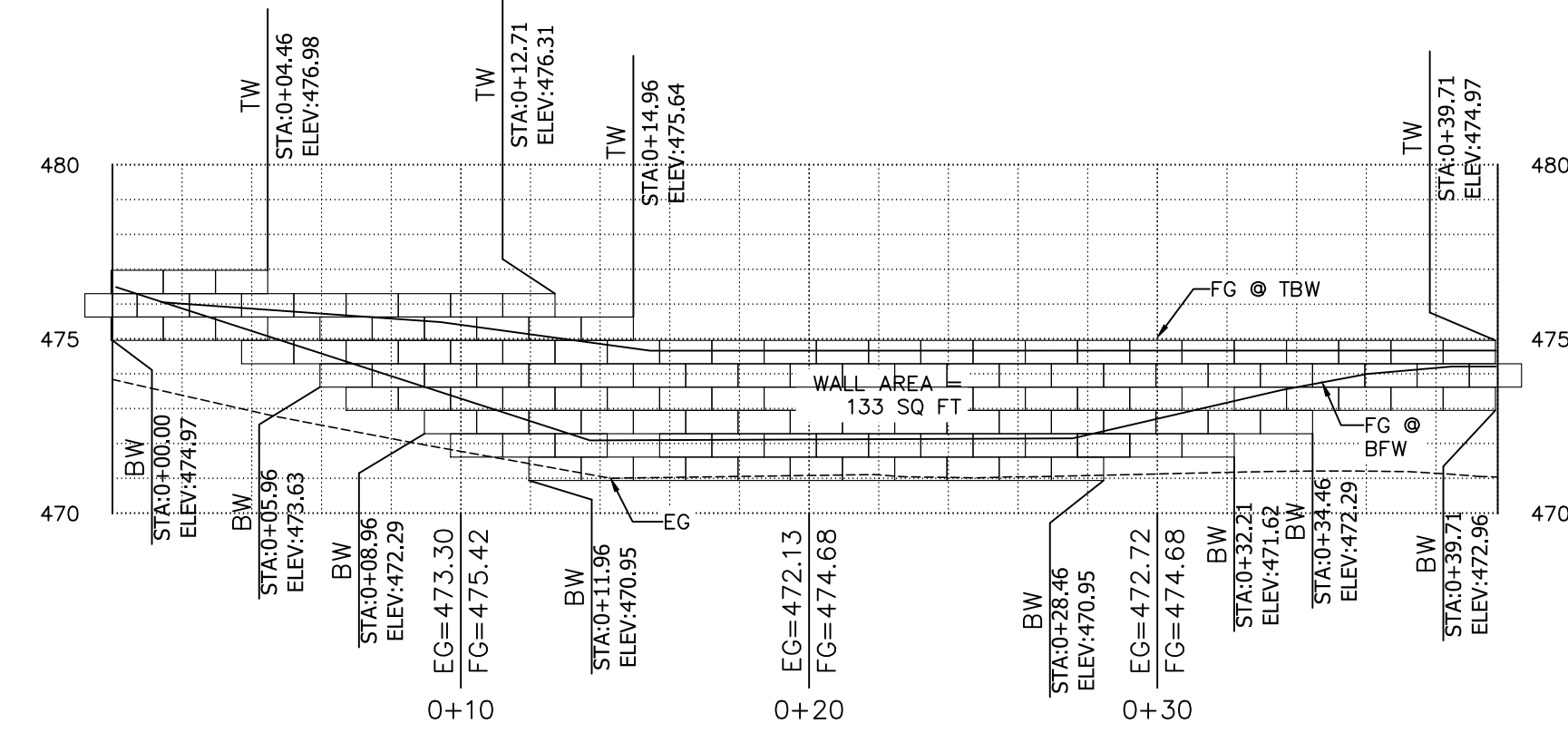
2 ADU HOUSE CROSS SECTION

Scale: 1:10



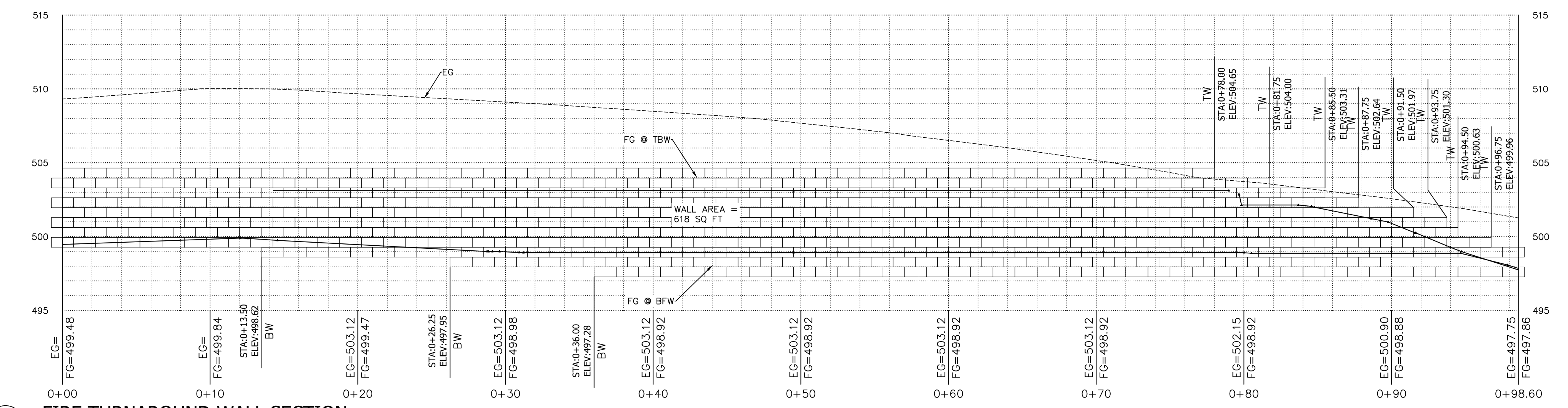
3 ADU WALL SECTION @ SIDEYARD

Scale: 1:5



4 ADU WALL SECTION @ DRIVEWAY

Scale: 1:5

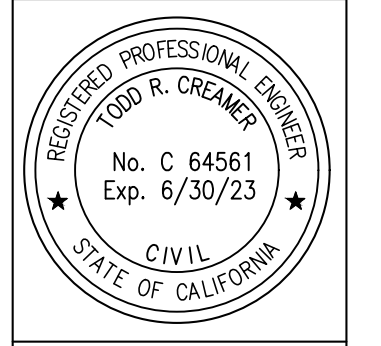


5 FIRE TURNAROUND WALL SECTION

Scale: 1:5

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

CUT/FILL SECTIONS



C2G CIVIL CONSULTANTS GROUP, INC.
 Engineers/Planners
 4400 Scotts Valley Blvd., Suite 6
 Scotts Valley, CA 95066
 T (831) 438-4420 F (831) 438-4420

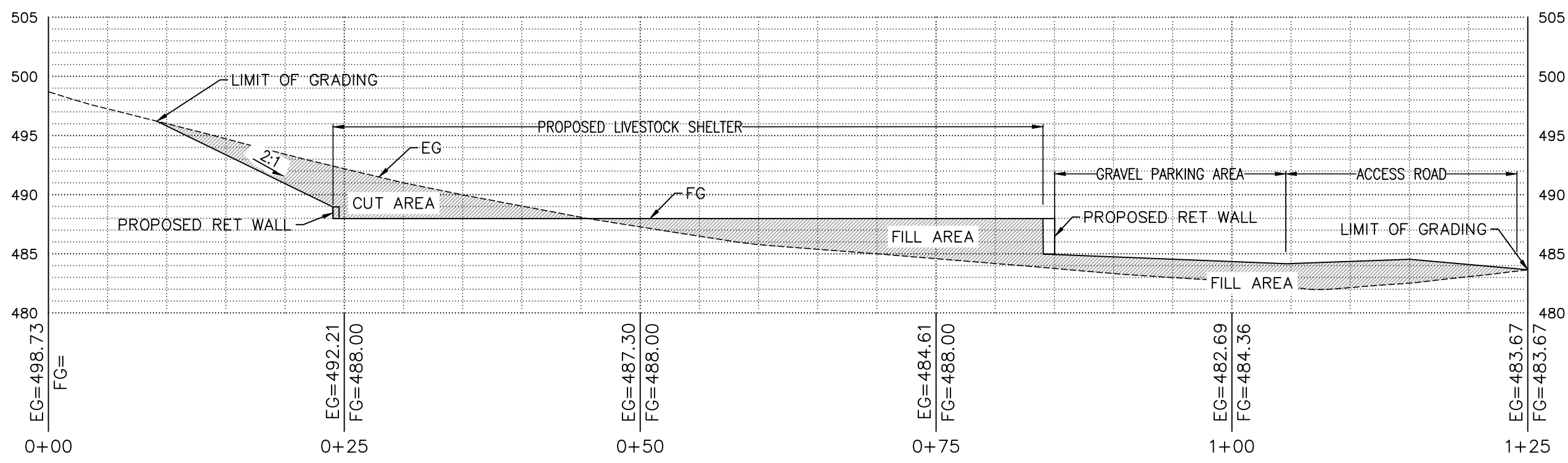
BARSANA RESIDENCE

AUGUSTE COURT

APN: 029-35-007

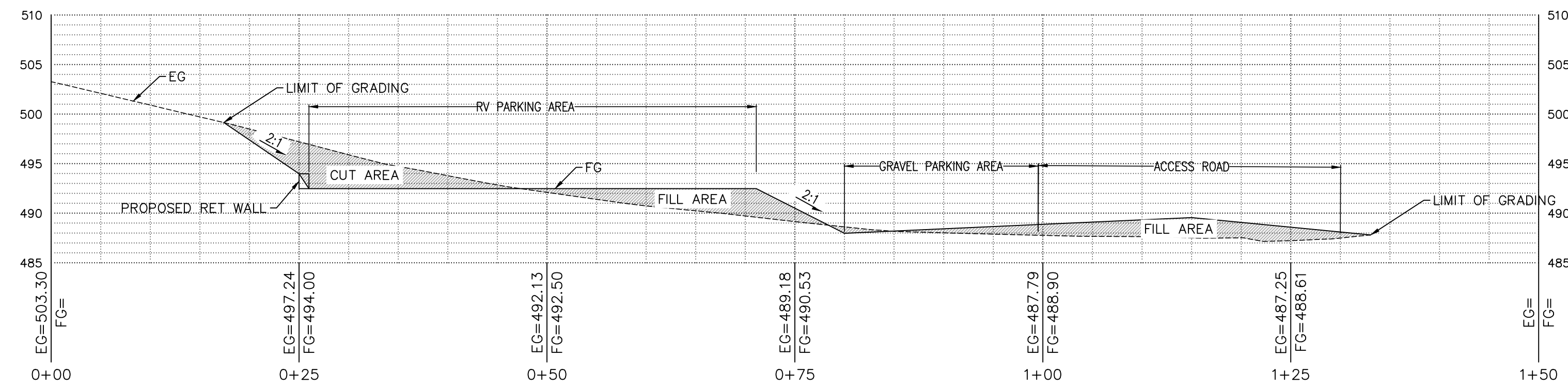
Date:	08/06/21
Scale:	AS SHOWN
Drawn:	DD
Job:	3007.02
Sheet:	C3.2
Of	31 Sheets

Drawing: 2 | Shared CAD | 3007.02 - WF - Steps Down 15 from SPB Design | CAD Sheets | 3007.02 - 03.2 - SECTIONS | CUT/FILL | Layout: 03.2 | Last Saved: Fri Mar 17, 2023 - 11:45am | Copyright: © 2023 | C2G CIVIL CONSULTANTS GROUP, INC.



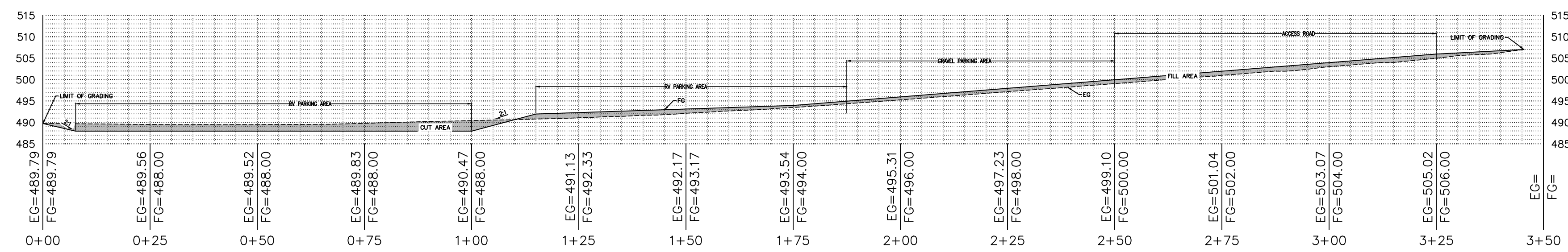
1 LIVESTOCK SHELTER CROSS SECTION

Scale: 1"=10'



2 RV PARKING AREA CROSS SECTION

Scale: 1"=10'

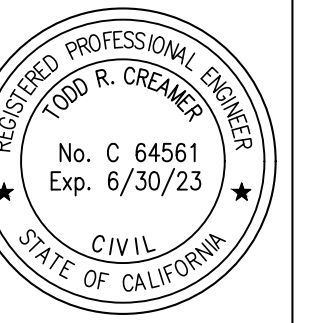


2 LIVESTOCK SHELTER AND RV PARKING AREA CROSS SECTION

Scale: 1"=20'

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

CUT/FILL SECTIONS

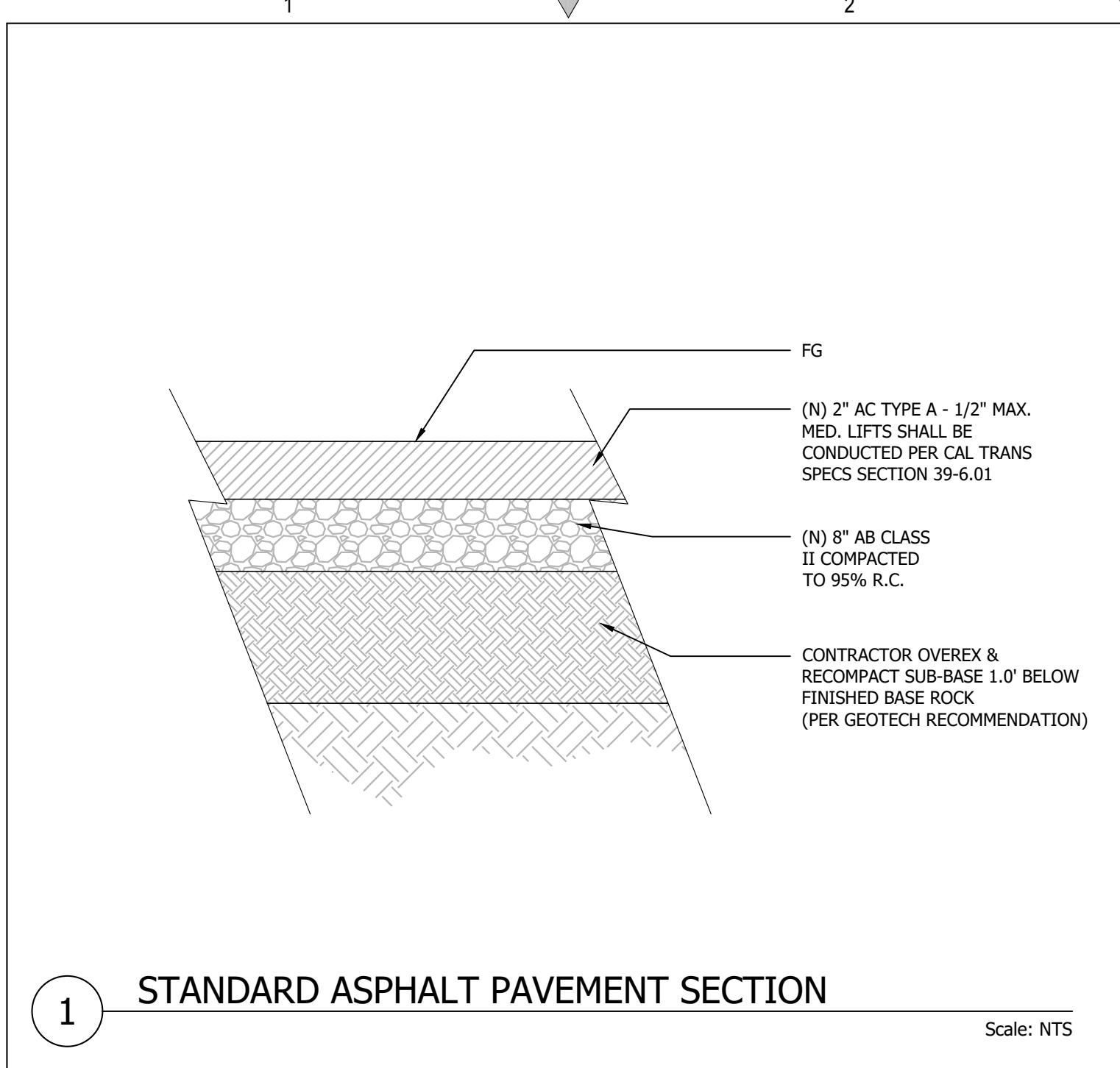


C2G CIVIL CONSULTANTS GROUP, INC.
 Engineers/Planners
 4400 Scotts Valley Blvd., Suite 6
 Scotts Valley, CA 95066
 T (831) 438-4420 F (831) 438-4420

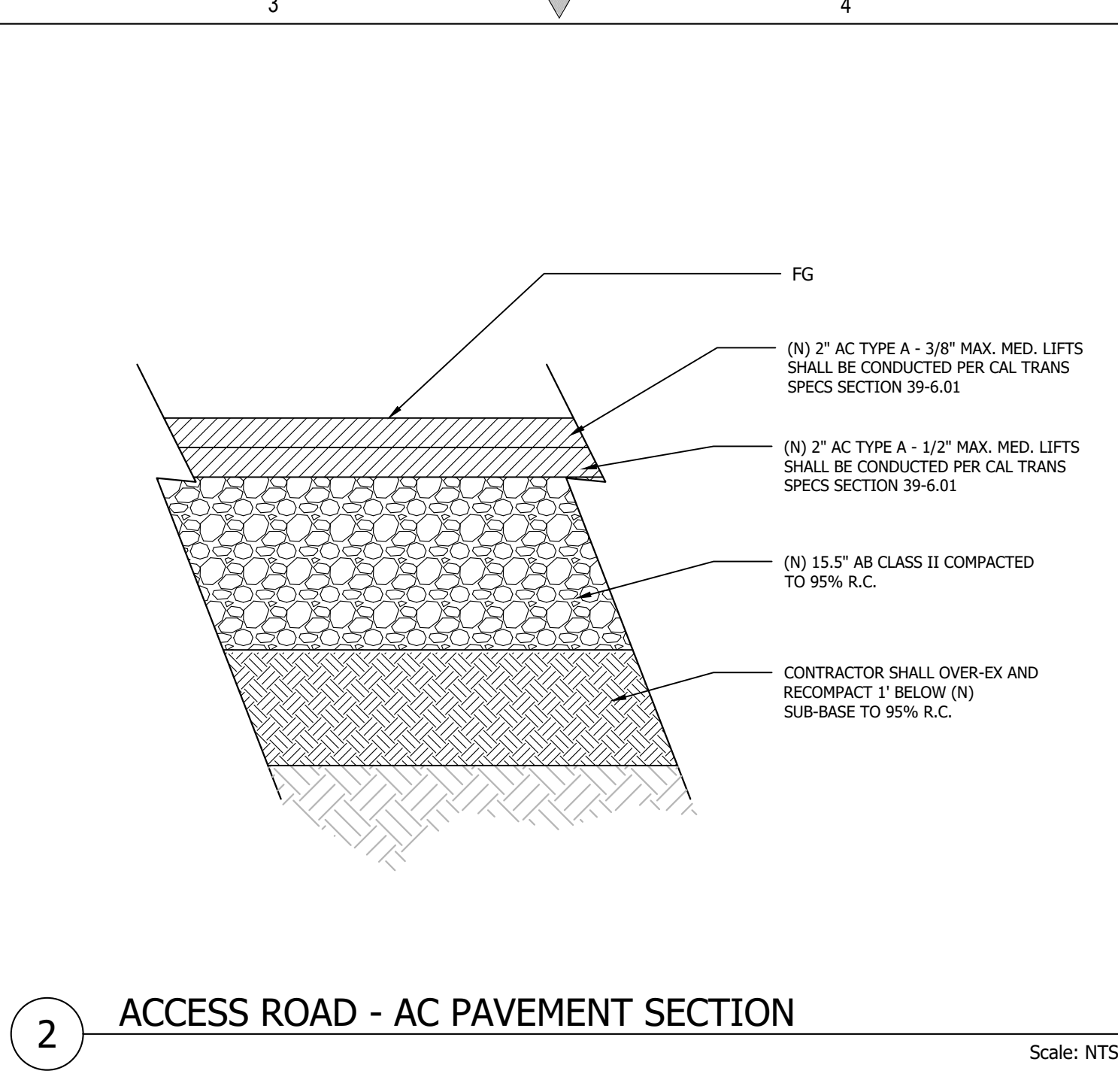
BARSANA RESIDENCE
 AUGUSTE COURT
 APN: 029-35-007

Date:	08/06/21
Scale:	X" = XX'
Drawn:	DD
Job:	3007.02
Sheet:	C3.3
Of	31 Sheets

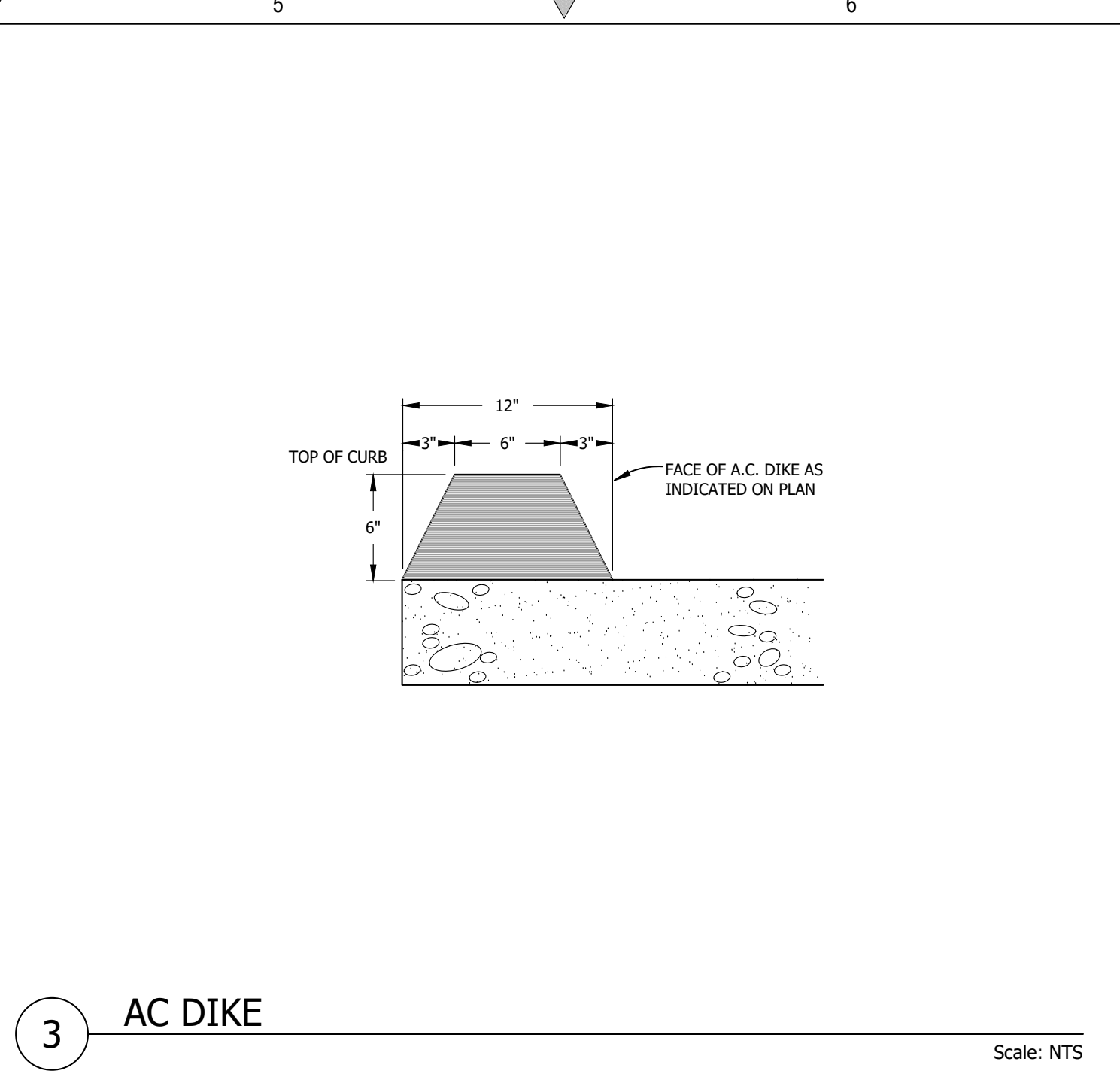
Drawing: Z:\Shared\CAD\3007.02 - Bar - Steps Quarry 15 Area SPP\Design\CAD\Sheets\3007.02 - C3.3 - SECTIONS (DTP) (LW) .dwg Date: 08/06/21 10:12am



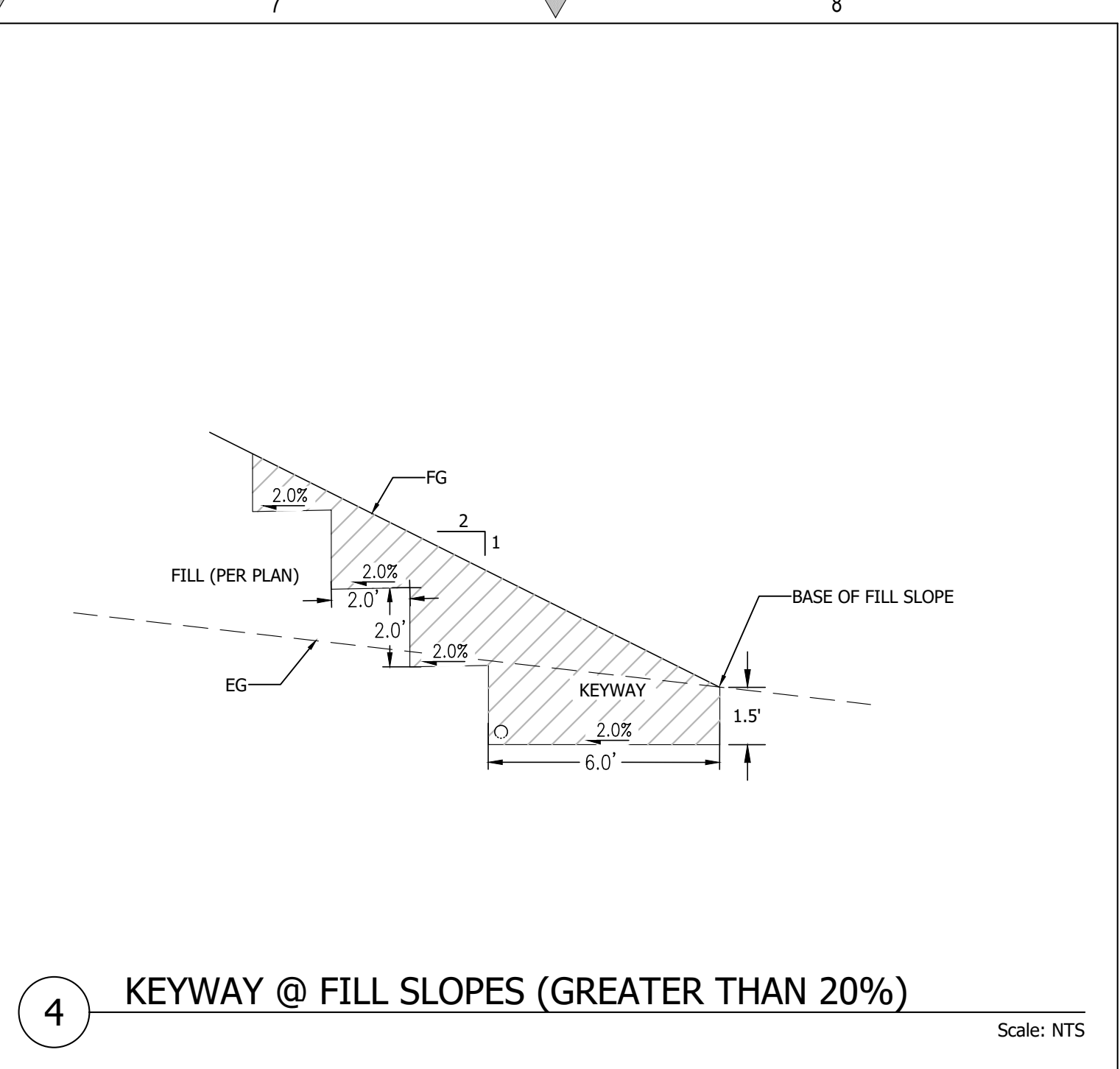
1 STANDARD ASPHALT PAVEMENT SECTION
Scale: NTS



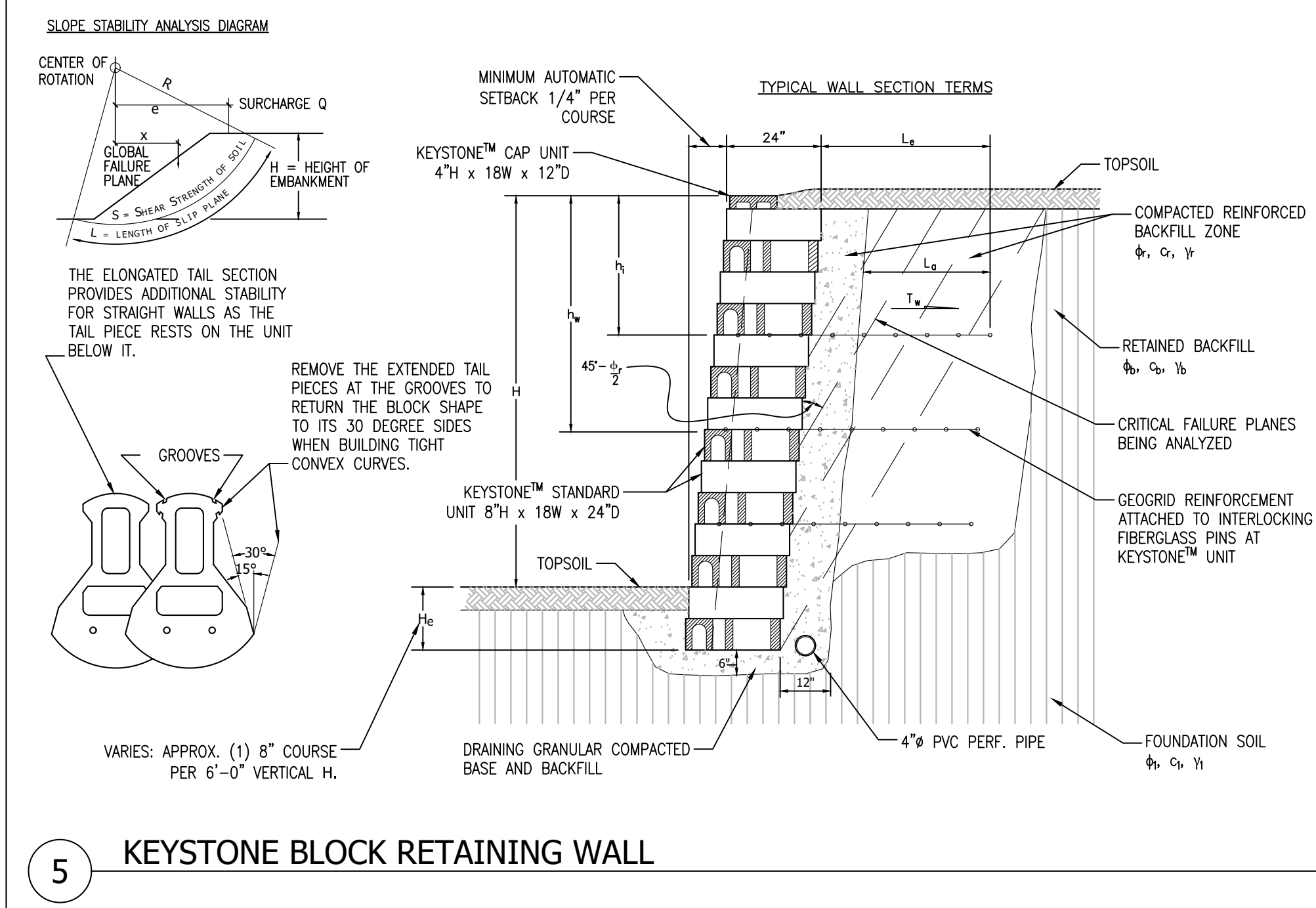
2 ACCESS ROAD - AC PAVEMENT SECTION
Scale: NTS



3 AC DIKE
Scale: NTS

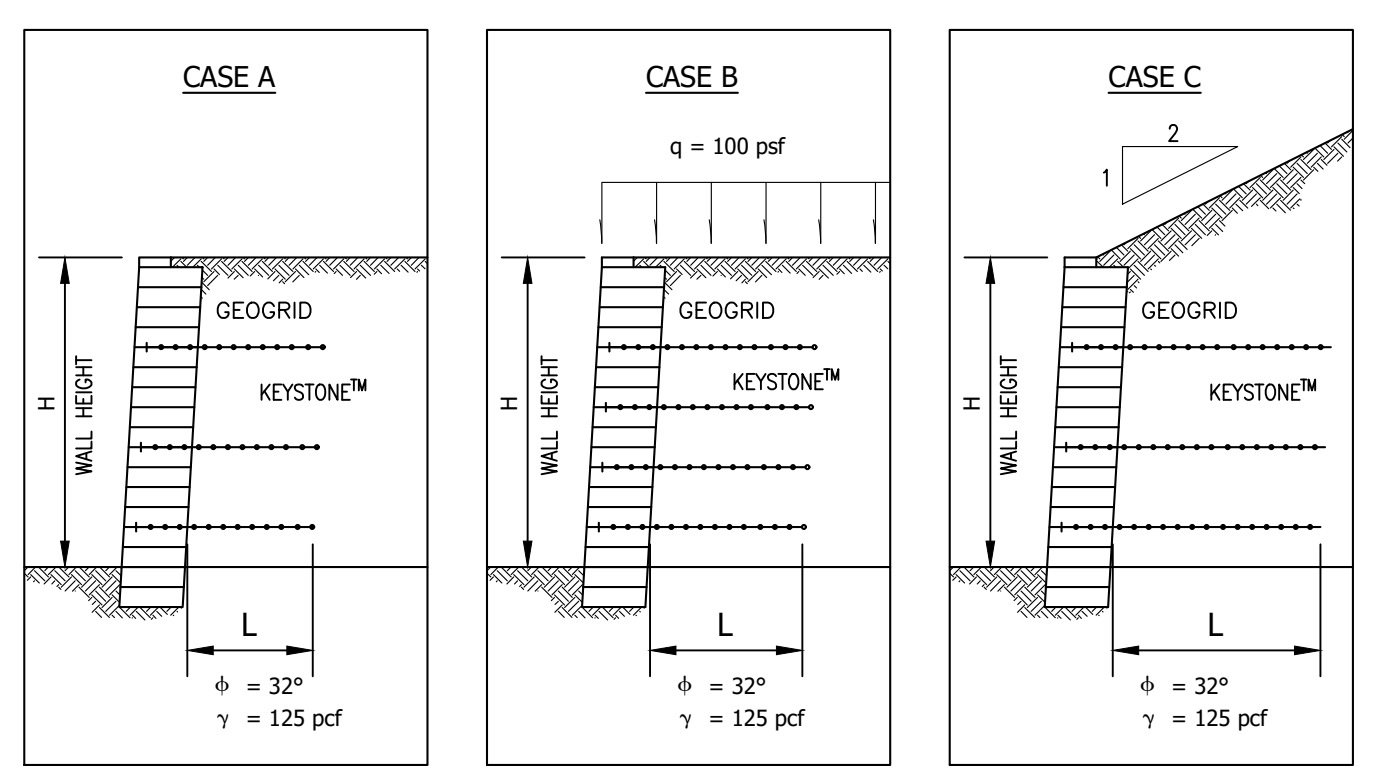


4 KEYWAY @ FILL SLOPES (GREATER THAN 20%)
Scale: NTS

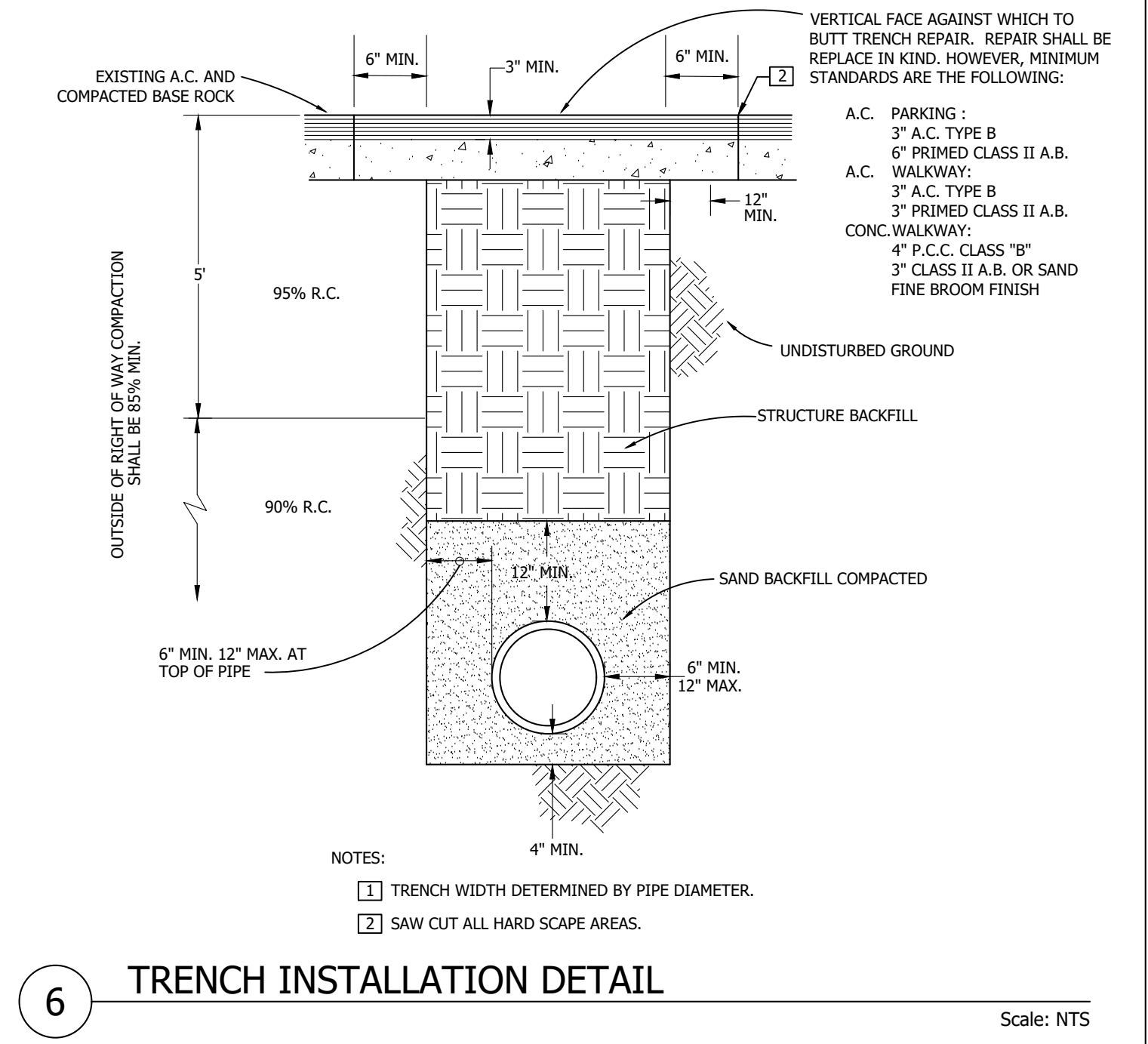


BASIC GEOGRID PLACEMENT CHART *

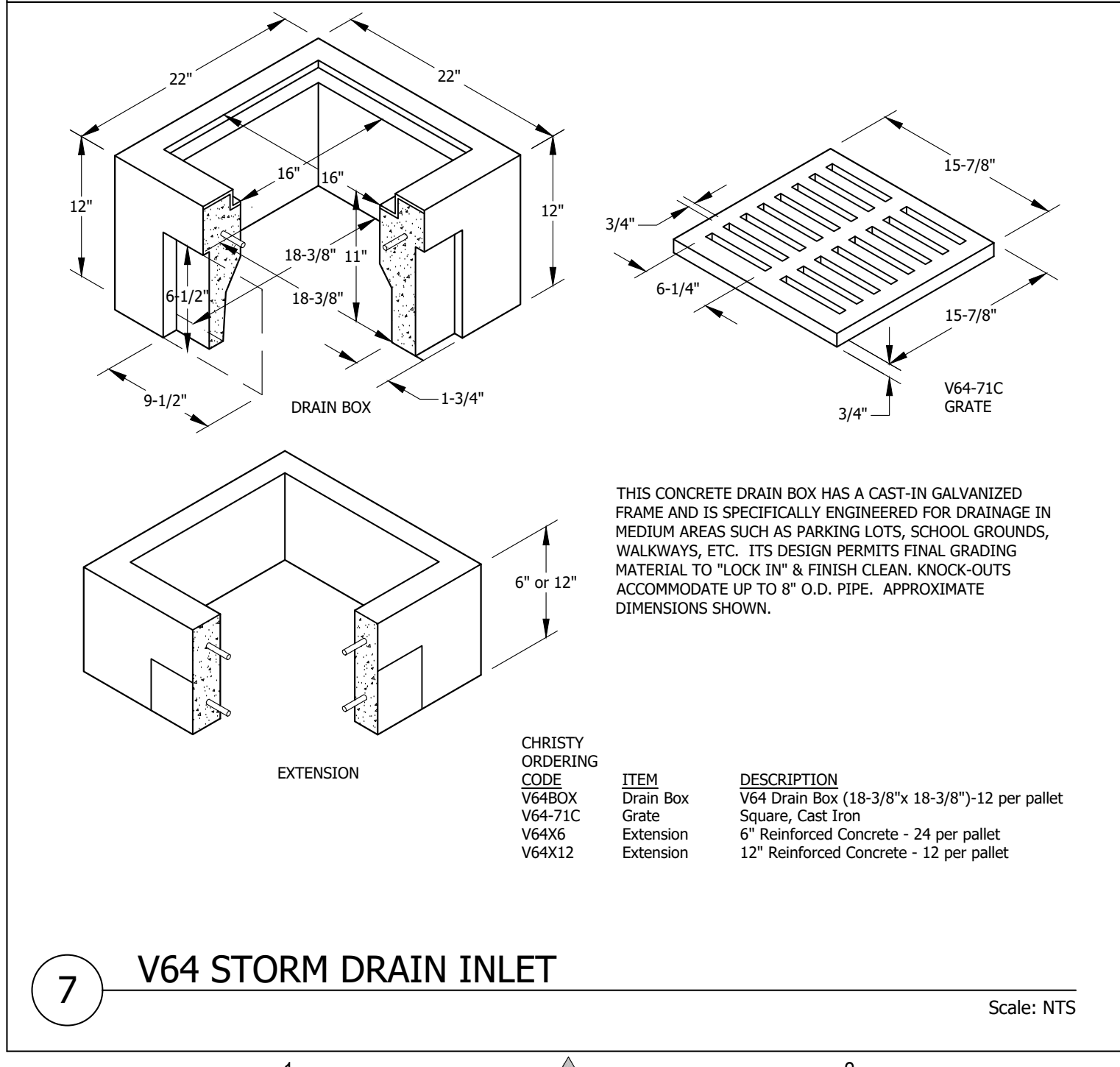
WALL HEIGHT FEET	CASE	GRID TYPE	NUMBER OF LAYERS	GEOGRID LENGTH FEET	GEOGRID LAYER NUMBER
4	A	-	-	-	1 2 3 4 5
4	B	-	-	-	
4	C	1	2.5	1.5	
5	A	-	-	-	
5	B	1	2.5	2	
5	C	2	3.7	1.3	3.3
6	A	1	2.5	2.7	
6	B	2	2.5	1.3	3.3
6	C	3	4.3	.7	2 4
7	A	2	3.0	1.3	4.0
7	B	3	3.0	1.3	2.7 4.7
7	C	3	4.9	1.3	2.7 4.7
8	A	3	3.2	1.3	3.3 5.3
8	B	4	3.5	.7	2.7 4.7 6.7
8	C	3	5.8	1.3	3.3 5.3
10	A	3	4.3	1.3	4 6.7
10	B	4	4.6	1.3	3.3 5.3 7.3
10	C	3	7.0	1.3	4.0 6.7



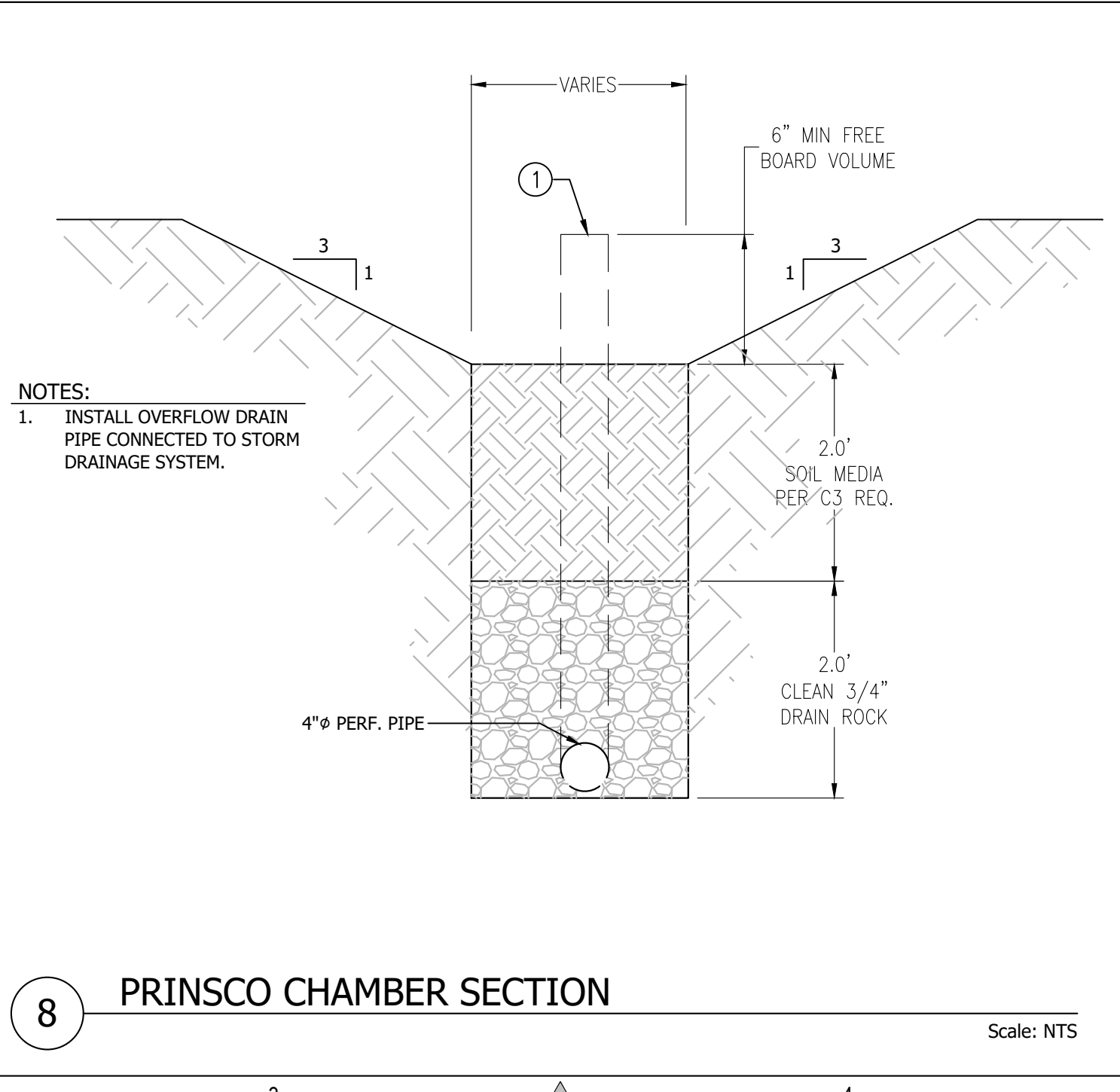
5 KEYSTONE BLOCK RETAINING WALL
Scale: NTS



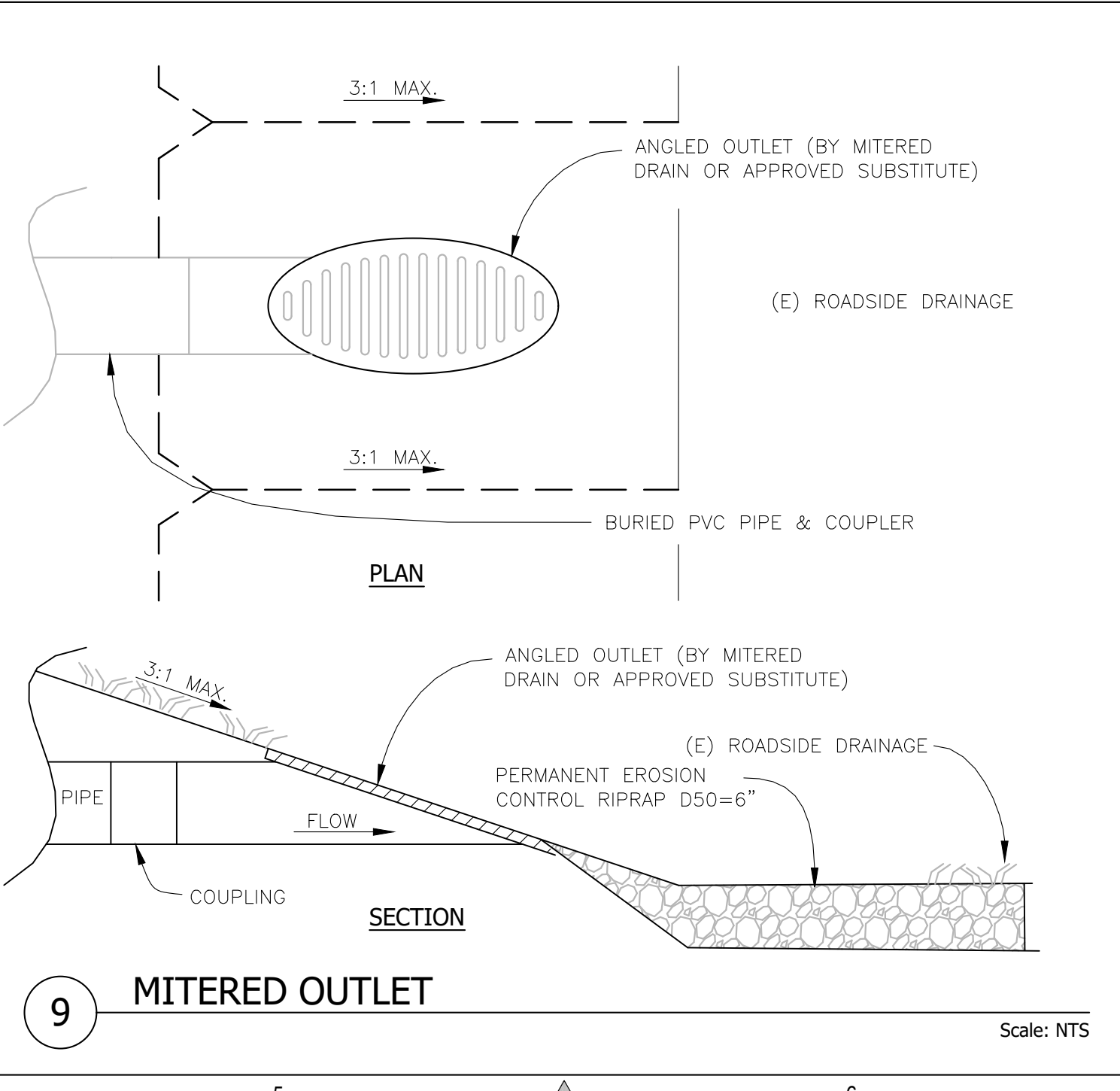
6 TRENCH INSTALLATION DETAIL
Scale: NTS



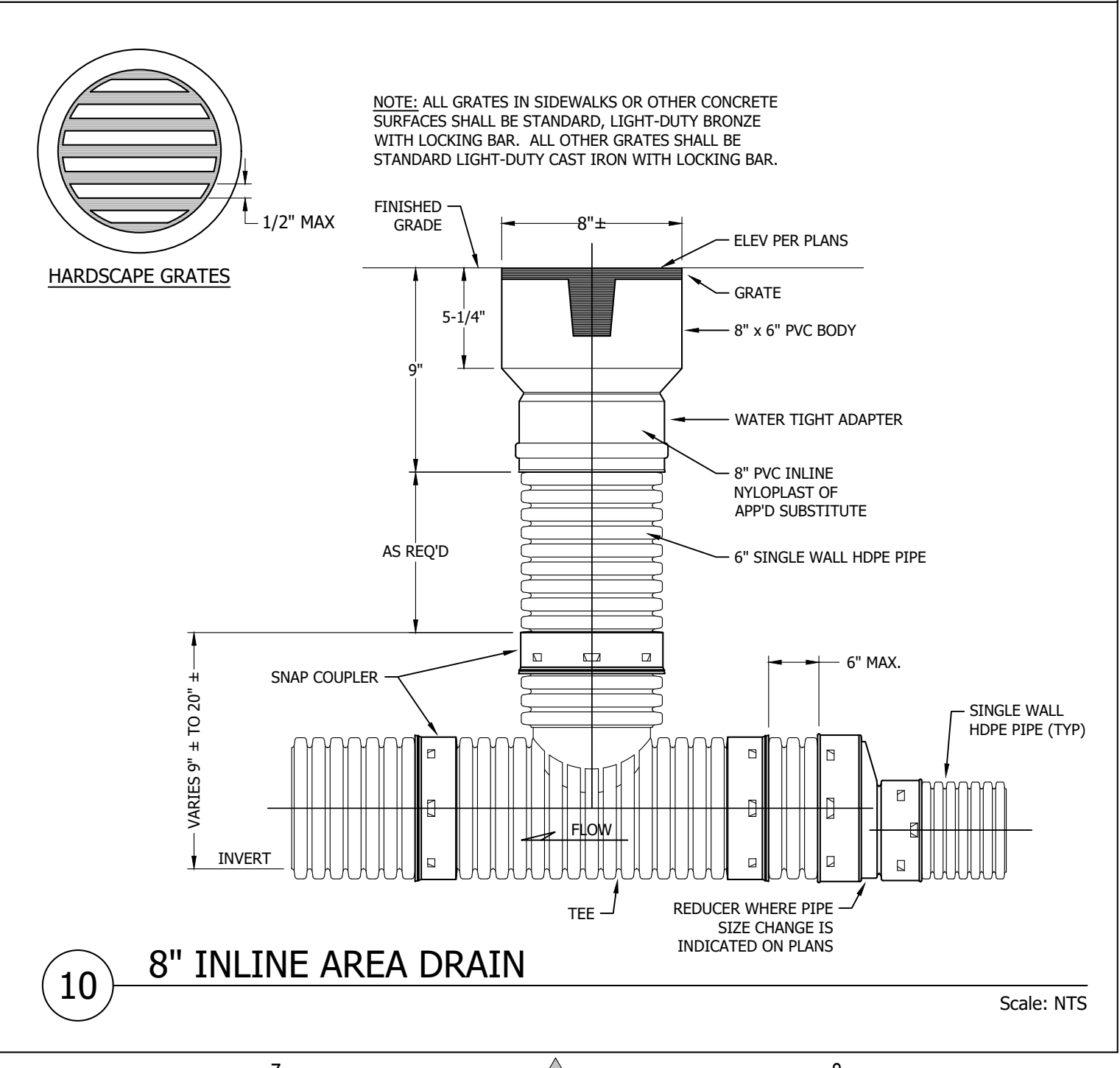
7 V64 STORM DRAIN INLET
Scale: NTS



8 PRINSCO CHAMBER SECTION
Scale: NTS



9 MITERED OUTLET
Scale: NTS



10 8" INLINE AREA DRAIN
Scale: NTS

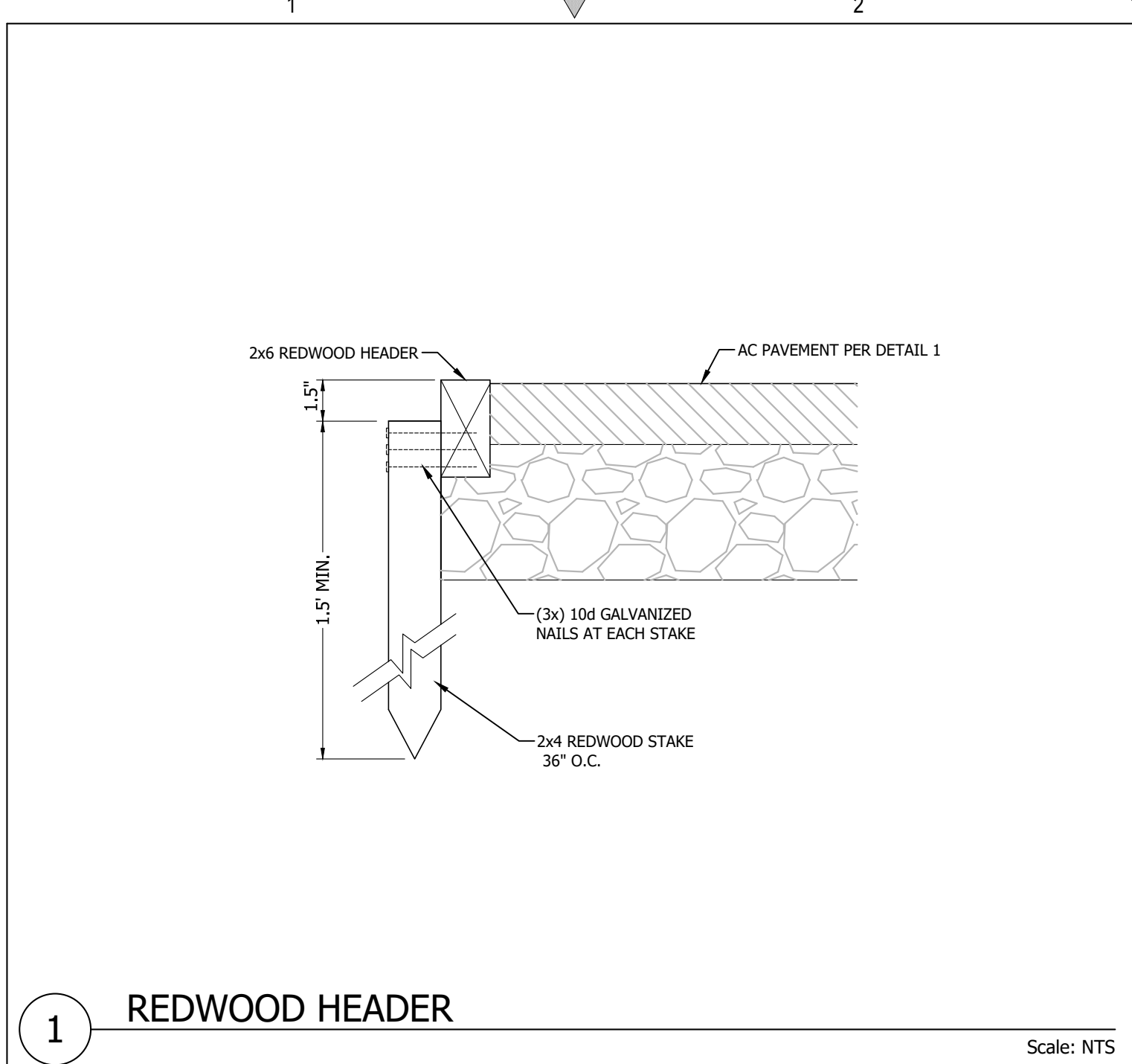
REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD

DETAILS

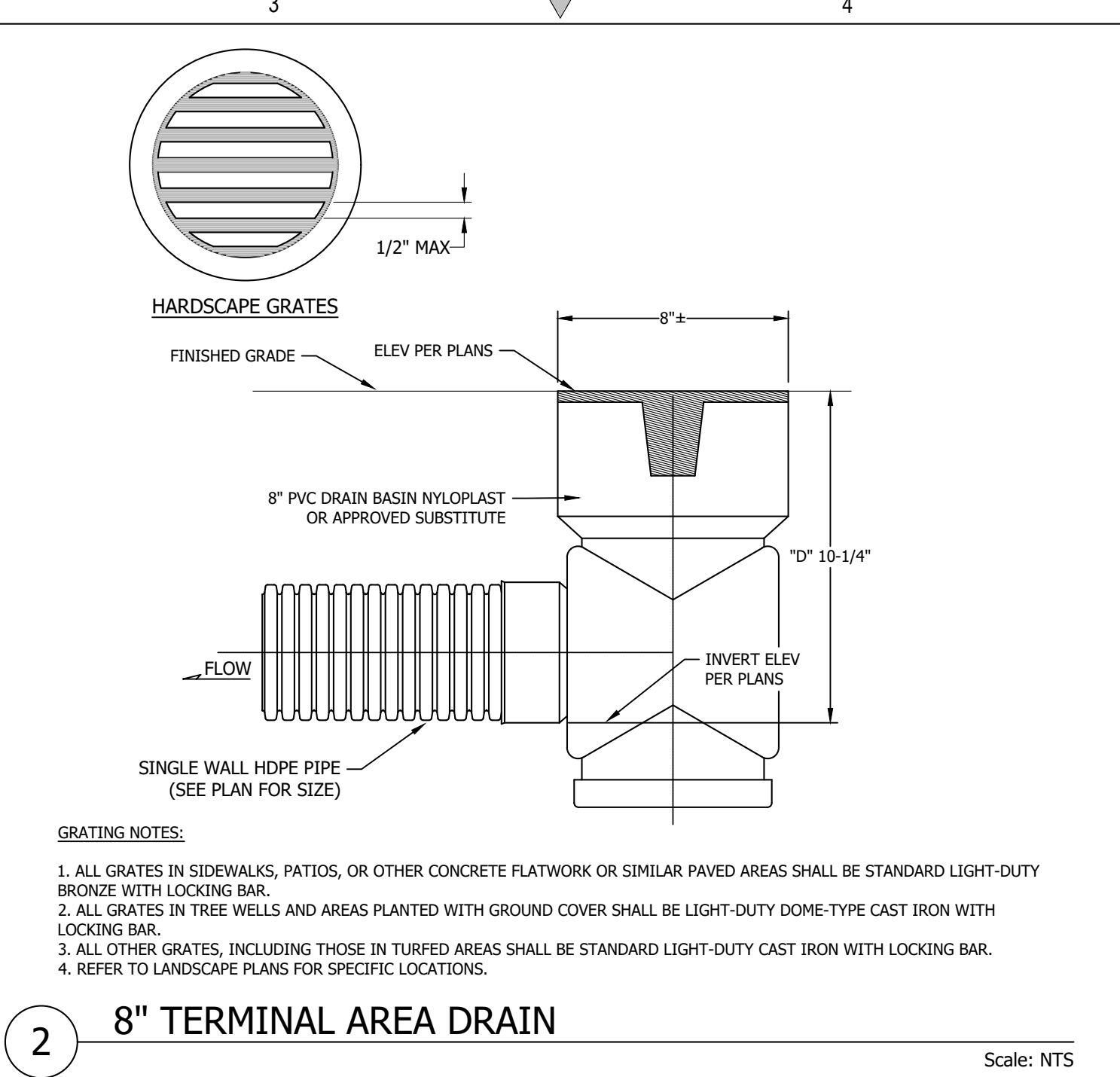
C2G CIVIL CONSULTANTS GROUP, INC.
Engineers/Planners
4400 Scotts Valley, CA 95066
T (831) 438-4420 F (831) 438-4420

BARSANA RESIDENCE
AUGUSTE COURT
APN: 029-35-007

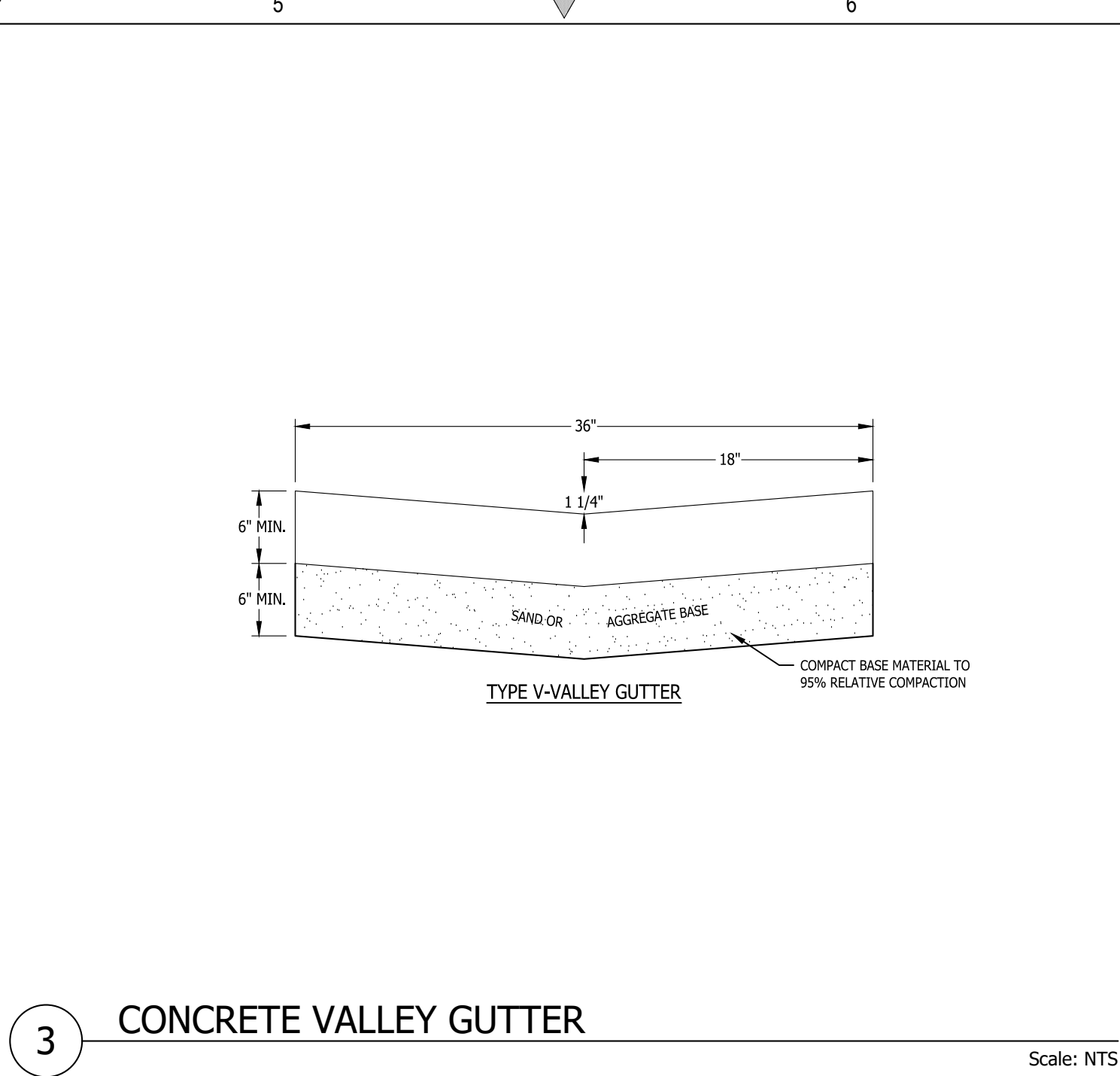
Date: 08/06/21
Scale: NTS
Drawn: DD
Job: 3007.02
Sheet: C4.1
Of 31 Sheets



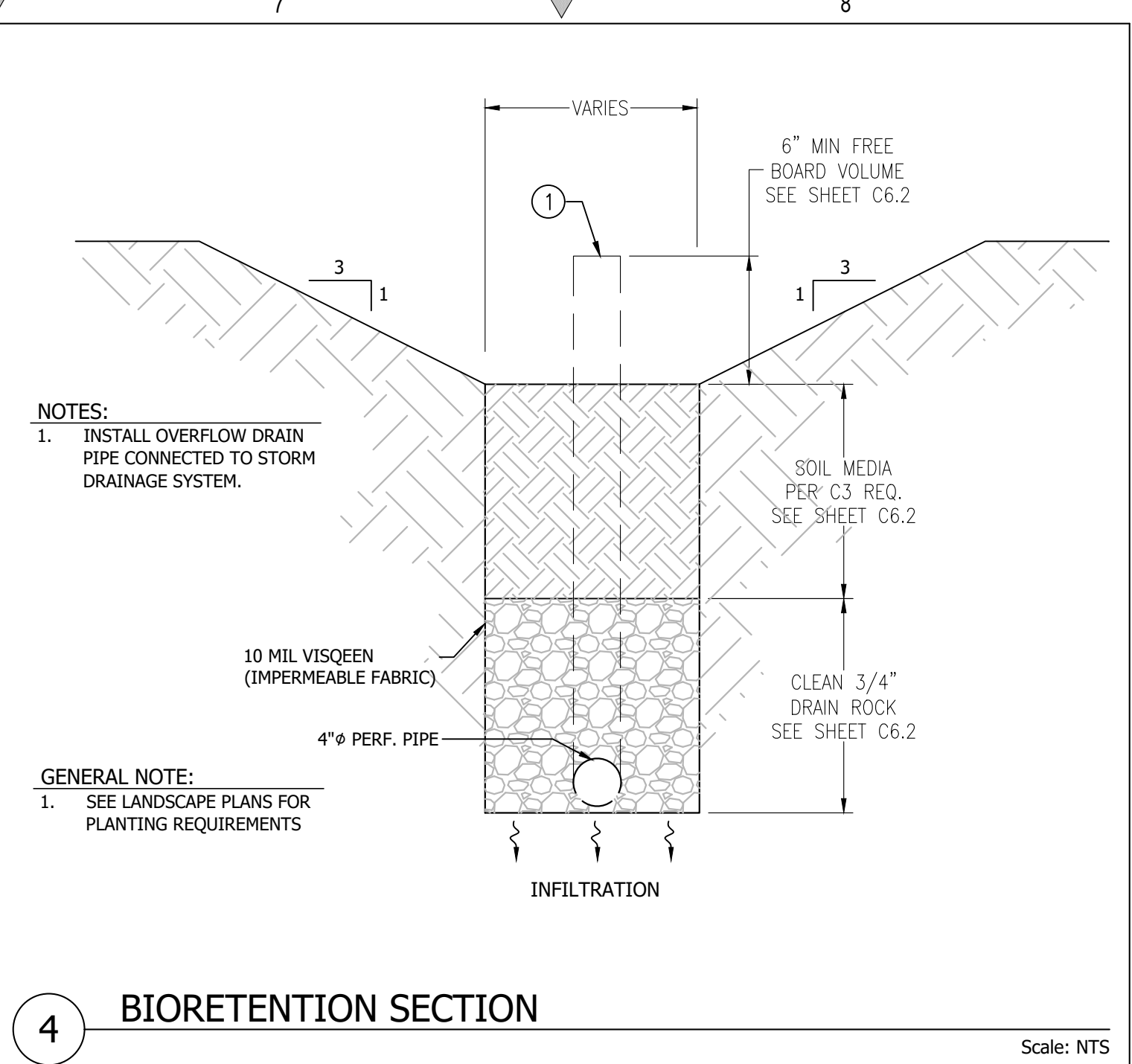
1 REDWOOD HEADER Scale: NTS



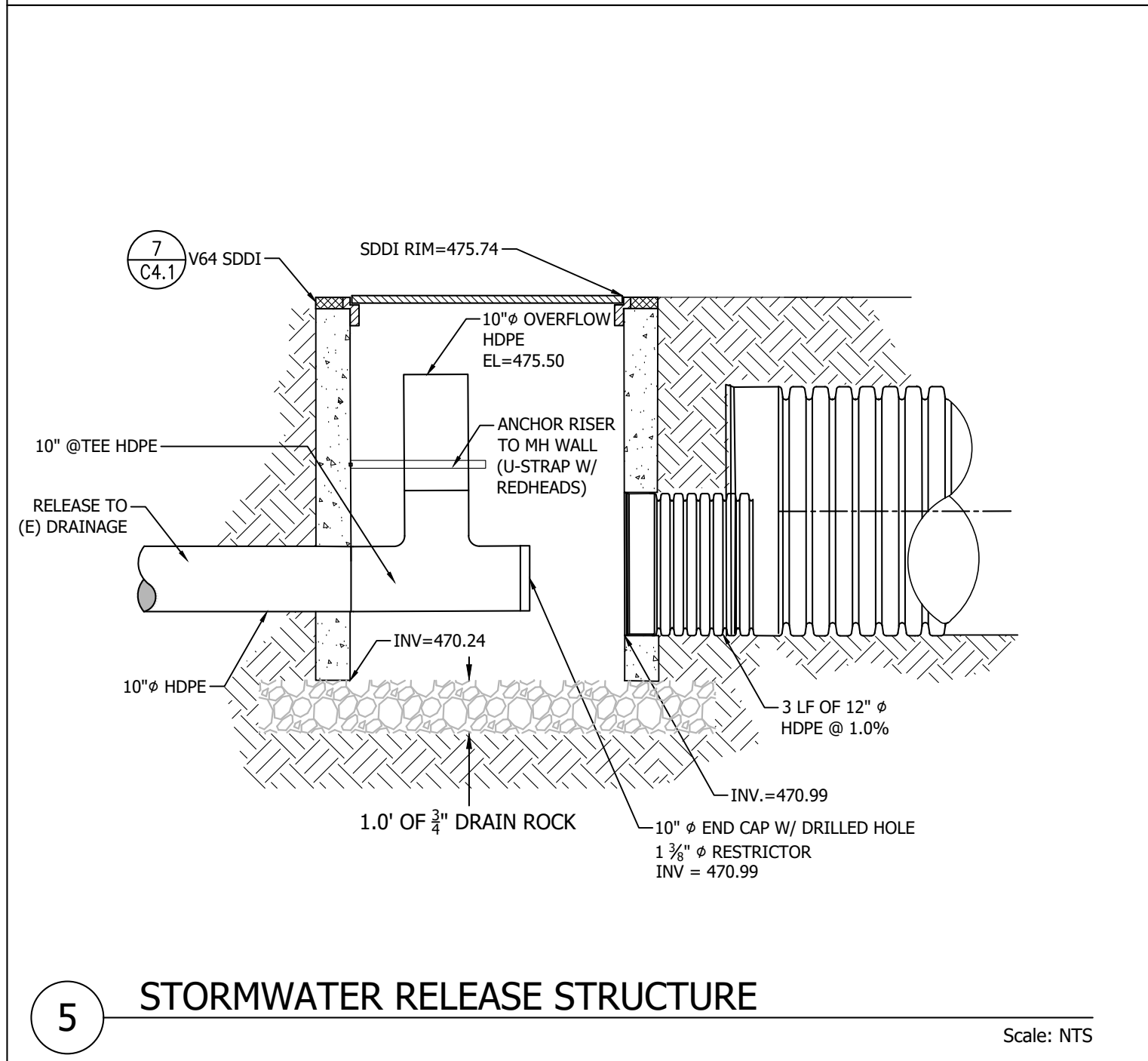
2 8" TERMINAL AREA DRAIN Scale: NTS



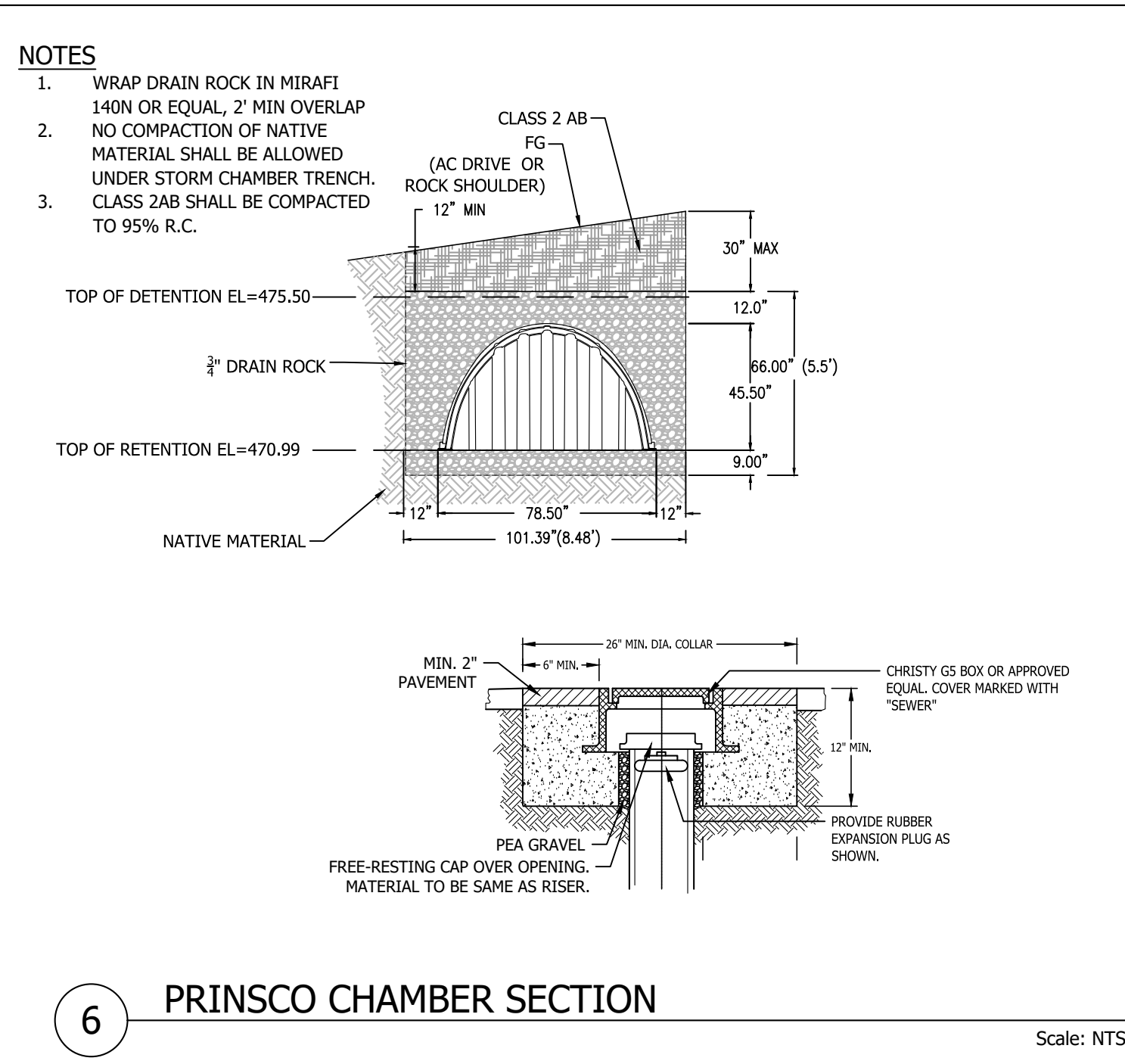
3 CONCRETE VALLEY GUTTER Scale: NTS



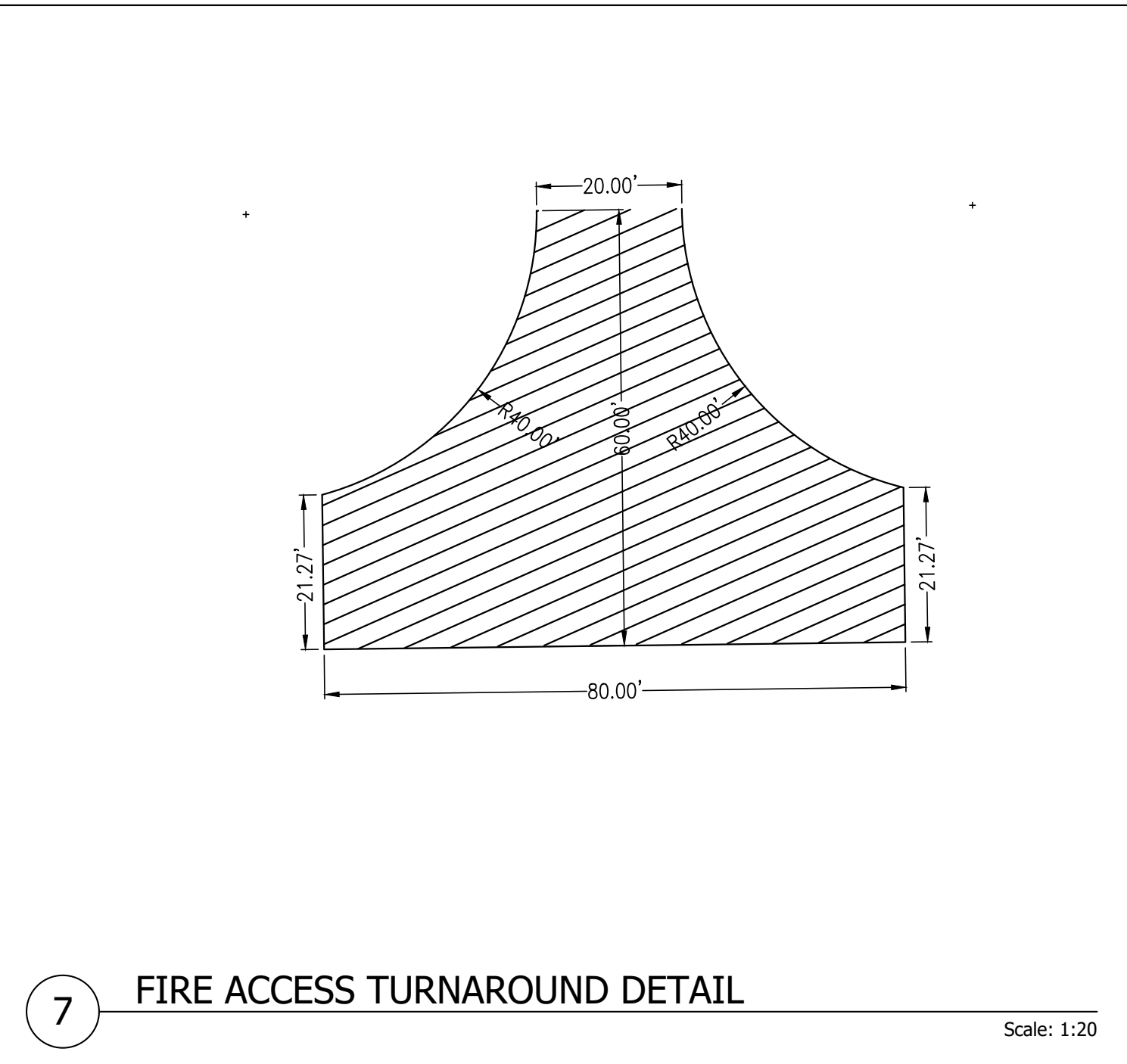
4 BIORETENTION SECTION Scale: NTS



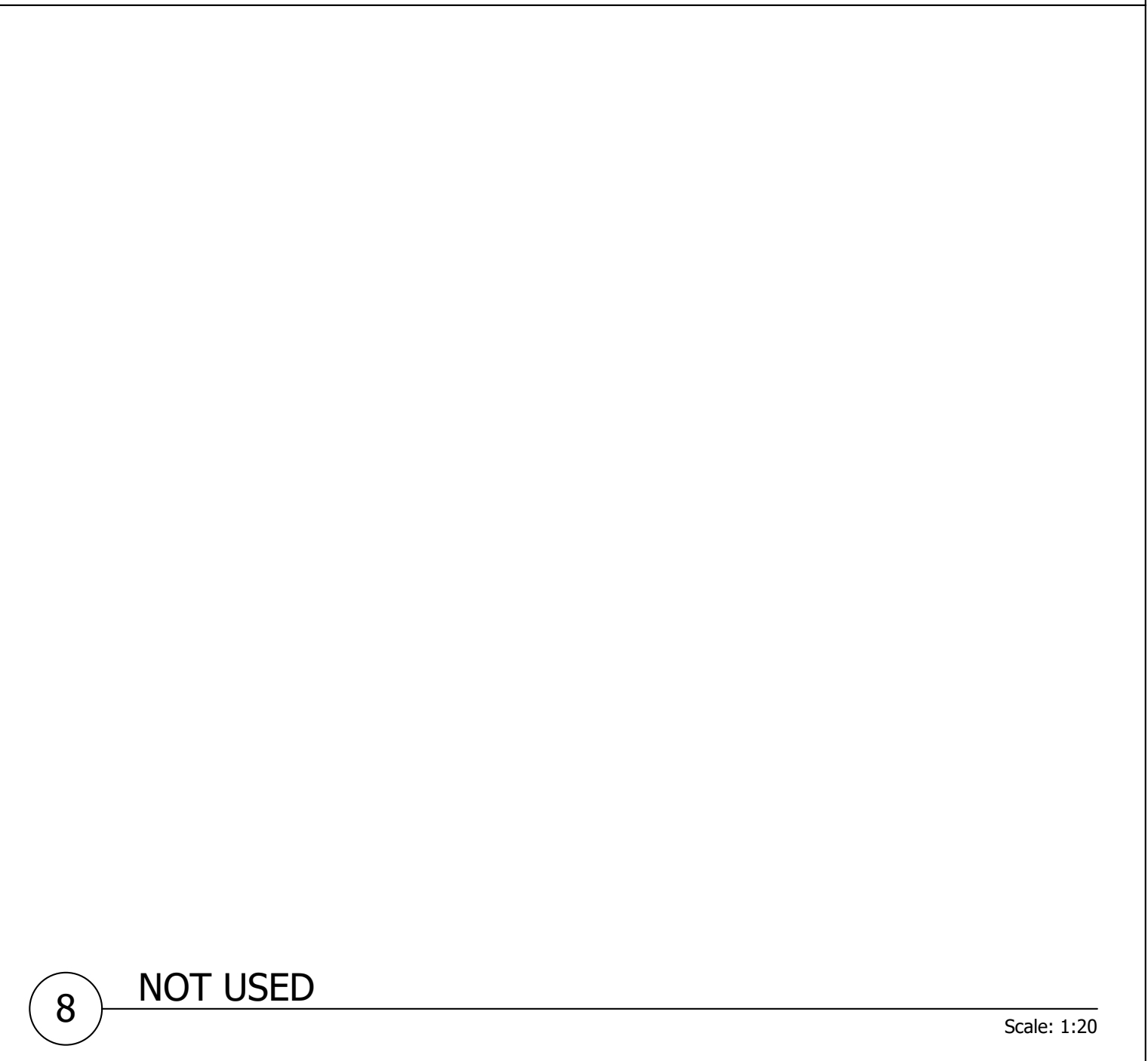
5 STORMWATER RELEASE STRUCTURE Scale: NTS



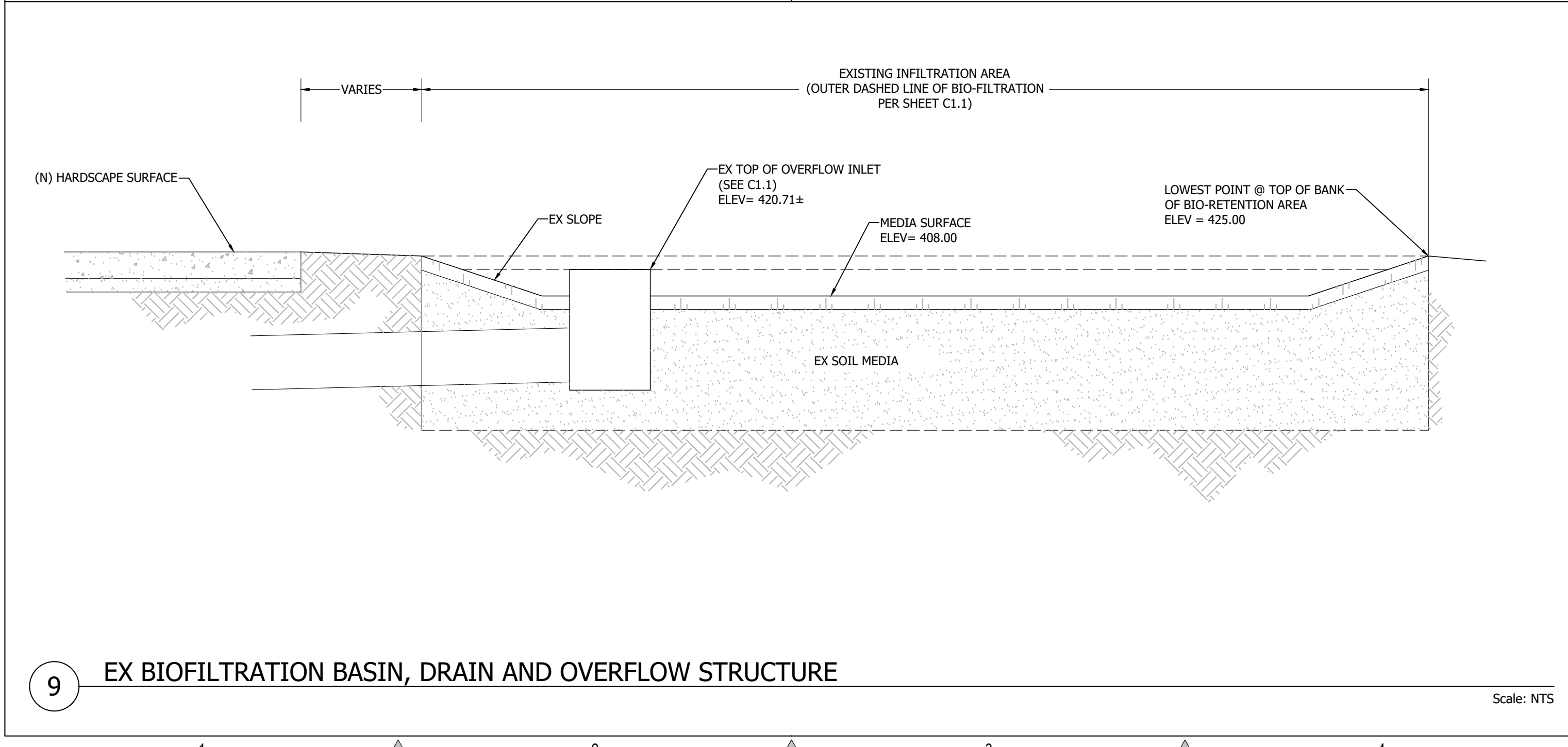
6 PRINSCO CHAMBER SECTION Scale: NTS



7 FIRE ACCESS TURNAROUND DETAIL Scale: 1:20



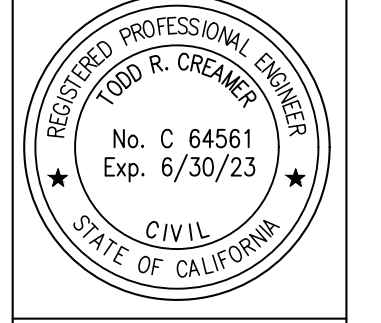
8 NOT USED Scale: 1:20



9 EX BIOFILTRATION BASIN, DRAIN AND OVERFLOW STRUCTURE Scale: NTS

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

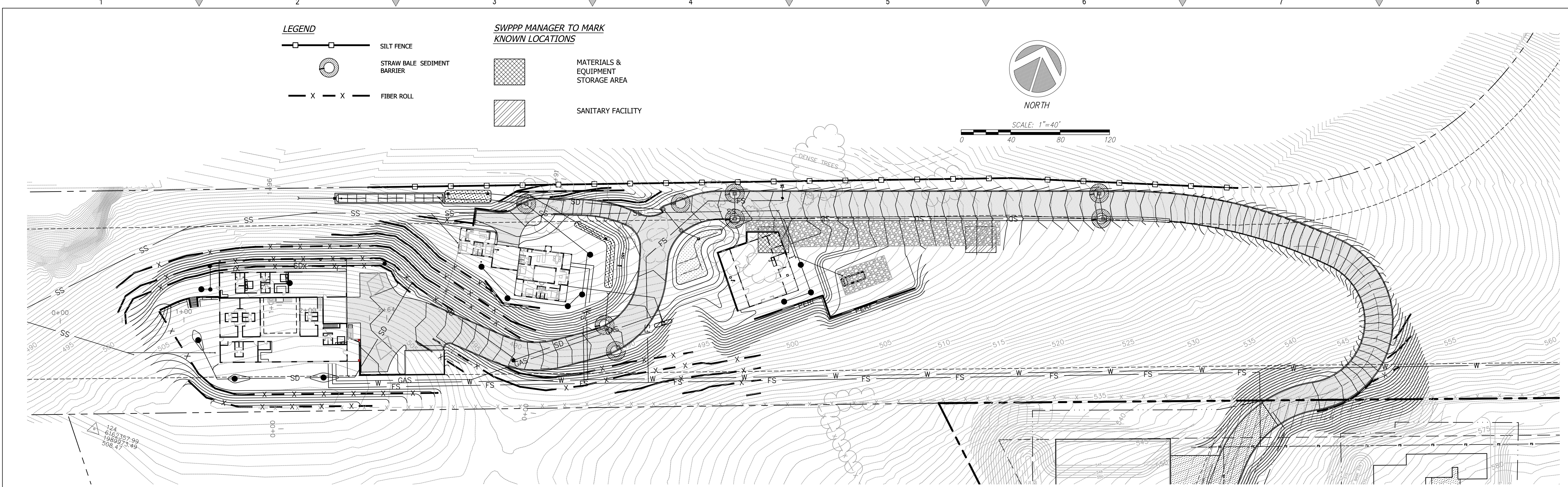
DETAILS



C2G CIVIL CONSULTANTS GROUP, INC.
 Engineers/Planners
 4400 Scotts Valley, CA 95066
 T (831) 438-4420 F (831) 438-4420
 Exp. 08/06/2022 - 4:50pm Leaf Printed: Fri Mar 24, 2023 - 10:15am By: Zane

BARSANA RESIDENCE
AUGUSTE COURT
 APN: 029-35-007

Date:	08/06/21
Scale:	NTS
Drawn:	DD
Job:	3007.02
Sheet:	C4.2
Of	31 Sheets



REVISIONS	BY
1	DD
2	DD

EROSION CONTROL

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

C2G CIVIL CONSULTANTS GROUP, INC.
 Engineers/Planners
 4400 Sycamore Drive, Suite 6
 Scotts Valley, CA 95066
 T (831) 438-4420 F (831) 438-4420

BARSANA RESIDENCE
 AUGUSTE COURT
 APN: 029-35-007

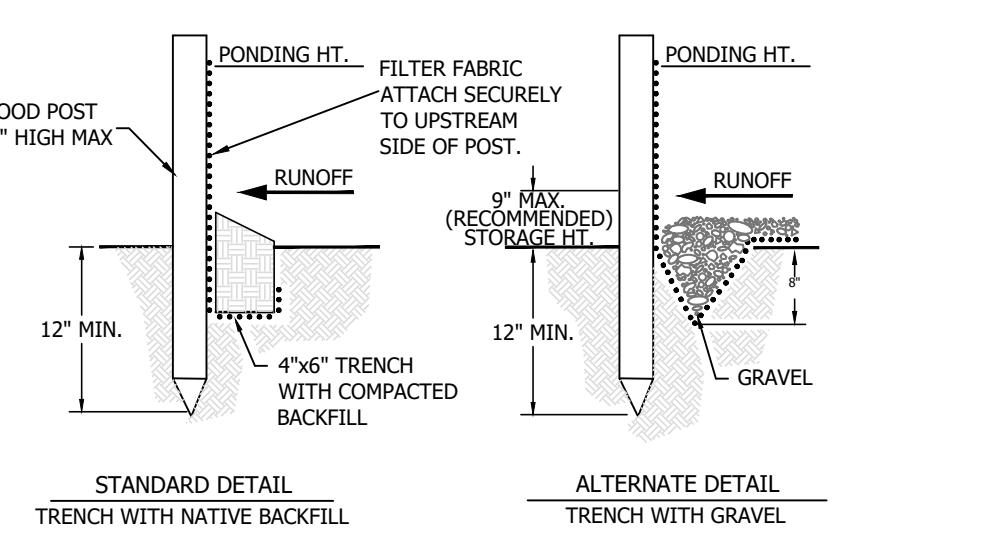
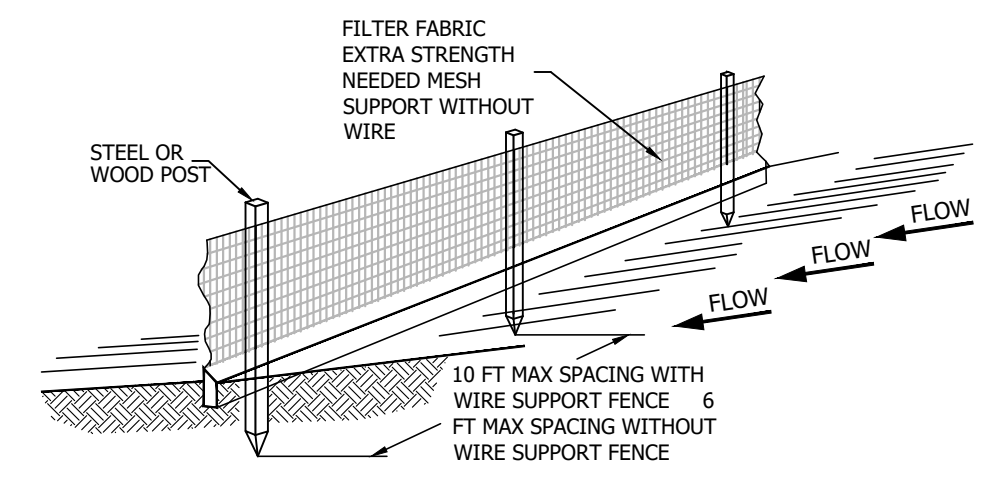
Date:	08/06/21
Scale:	1" = 40'
Drawn:	DD
Job:	3007.02
Sheet:	C5.1
of 31 Sheets	

LEGEND

- SILT FENCE
- STRAW BALE SEDIMENT BARRIER
- FIBER ROLL
- MATERIALS & EQUIPMENT STORAGE AREA
- SANITARY FACILITY

SWPPP MANAGER TO MARK KNOWN LOCATIONS

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



1 SILT FENCE Scale: NTS

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, THE 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.

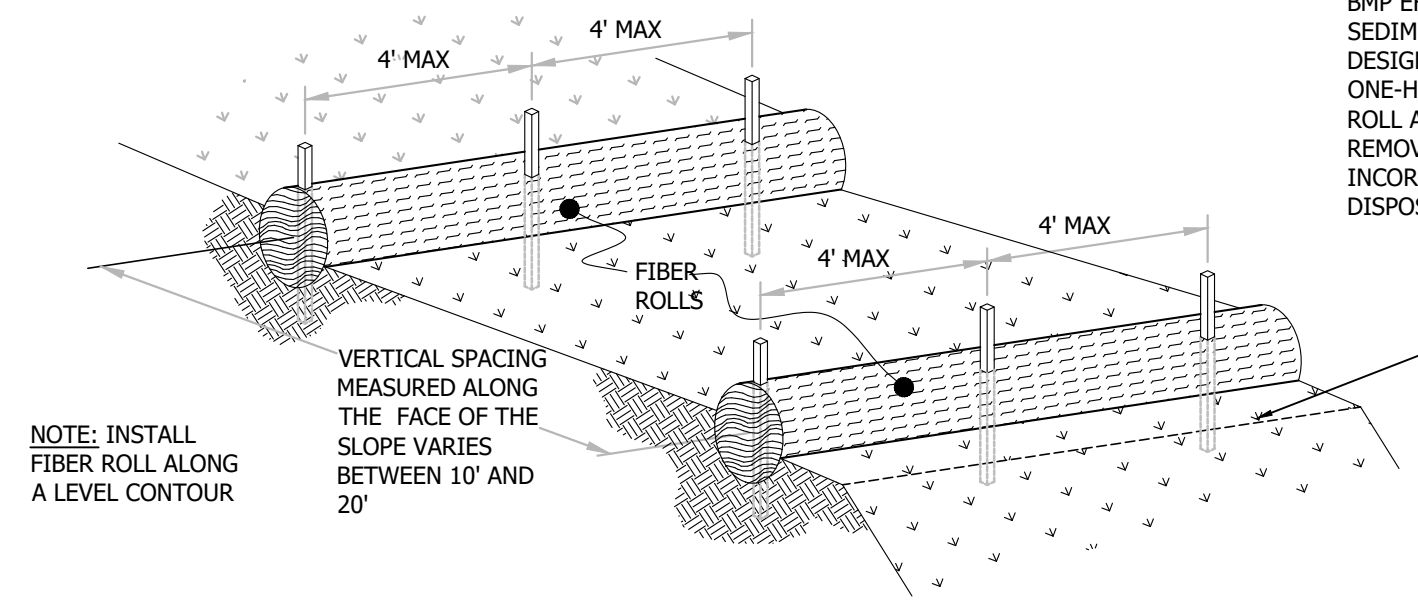
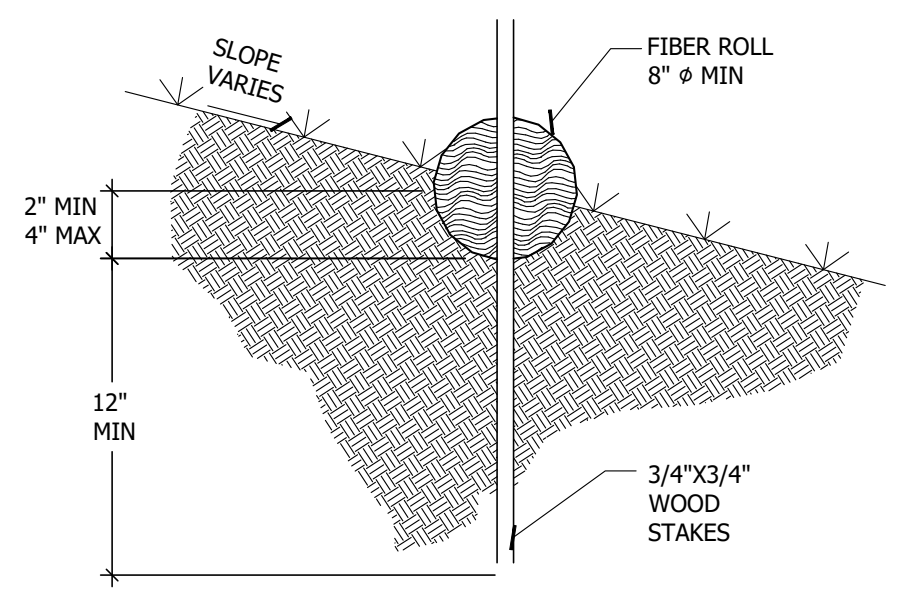
SILT FENCES PLACED AT THE TOE OF A SLOPE SHALL BE SET AT LEAST 6 FEET FROM THE TOE IN ORDER TO INCREASE PONDING VOLUME.

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.



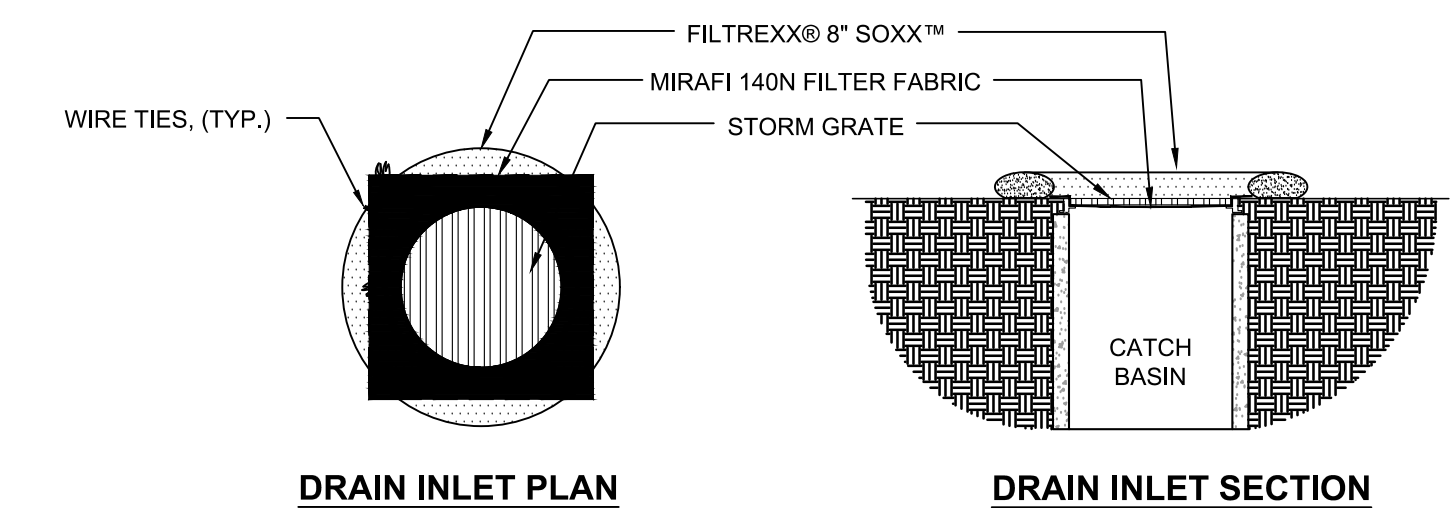
2 FIBER ROLLS Scale: NTS

CONSTRUCTION SPECIFICATIONS

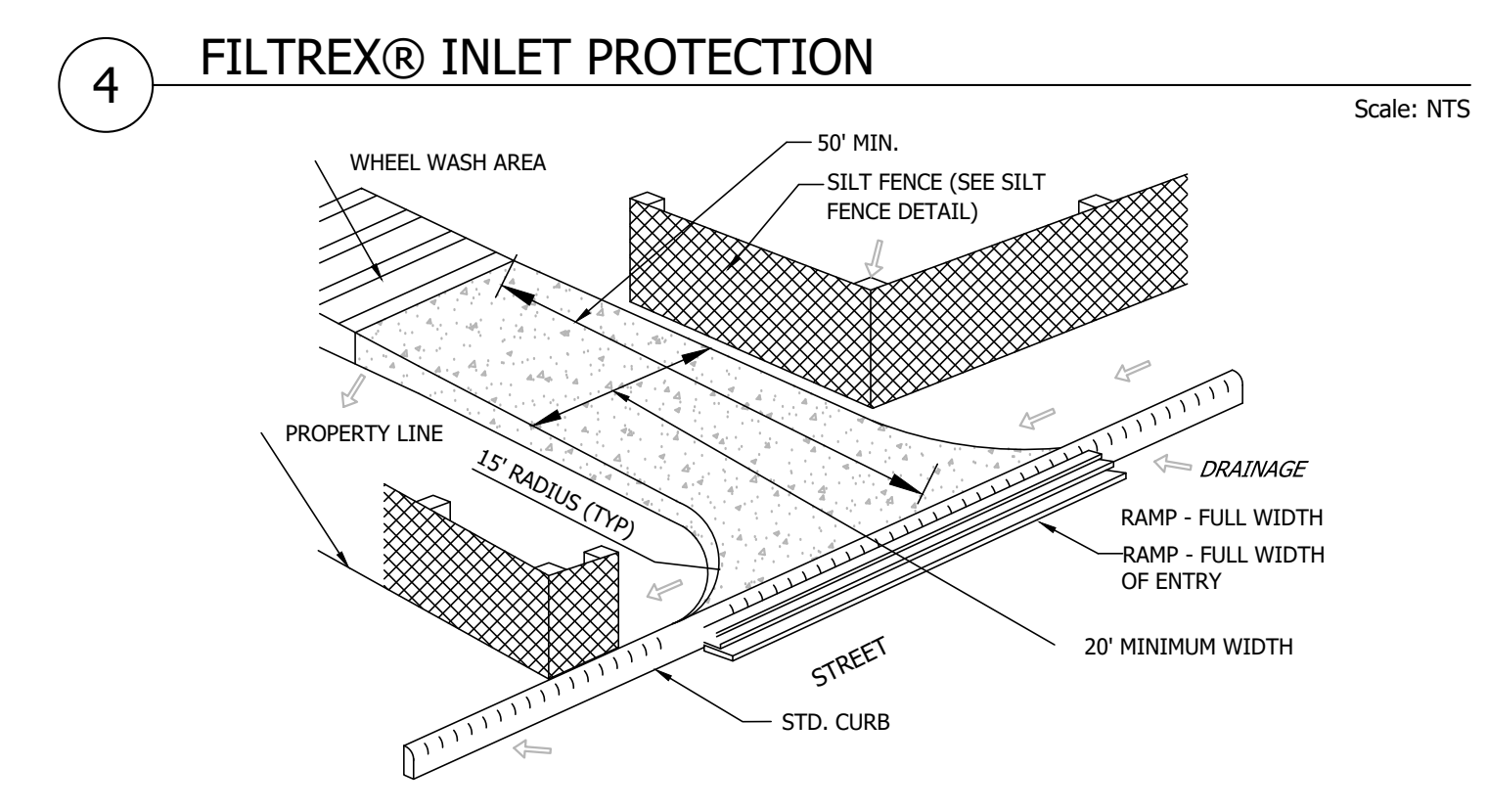
LOCATE FIBER ROLLS ON LEVEL CONTOURS SPACED AS FOLLOWS:

- 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.

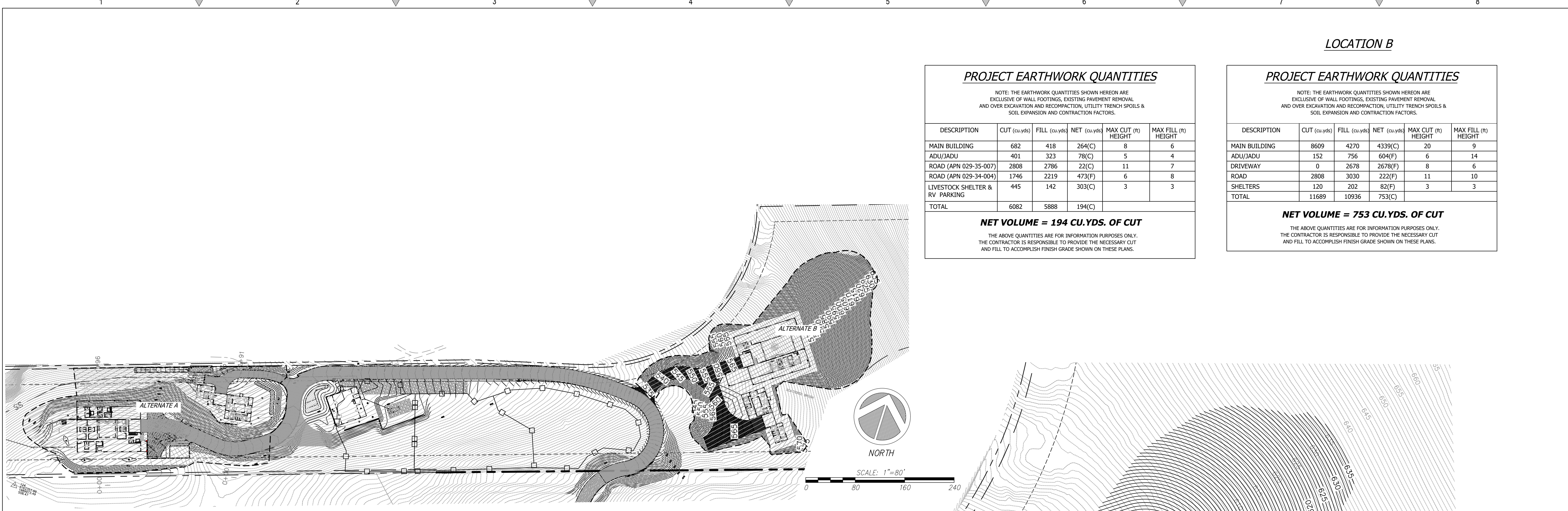
IF THE FIBER ROLL IS USED AS A SEDIMENT CAPTURE DEVICE, OR AS AN EROSION CONTROL DEVICE TO MAINTAIN SHEET FLOWS, SEDIMENT THAT ACCUMULATES IN THE BMP MUST BE PERIODICALLY REMOVED IN ORDER TO MAINTAIN BMP EFFECTIVENESS. SEDIMENT SHOULD BE REMOVED WHEN SEDIMENT ACCUMULATION REACHES ONE-HALF THE DESIGNATED 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.



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



3 ROCKED CONSTRUCTION ENTRANCE Scale: NTS



1 OVERALL SITE PLAN

Scale: 1:80

PROJECT EARTHWORK QUANTITIES

NOTE: THE EARTHWORK QUANTITIES SHOWN HEREON ARE EXCLUSIVE OF WALL FOOTINGS, EXISTING PAVEMENT REMOVAL AND OVER EXCAVATION AND RECONSTRUCTION, 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
MAIN BUILDING	682	418	264(C)	8	6
ADU/JADU	401	323	78(C)	5	4
ROAD (APN 029-35-007)	2808	2786	22(C)	11	7
ROAD (APN 029-34-004)	1746	2219	473(F)	6	8
LIVESTOCK SHELTER & RV PARKING	445	142	303(C)	3	3
TOTAL	6082	5888	194(C)		

NET VOLUME = 194 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.

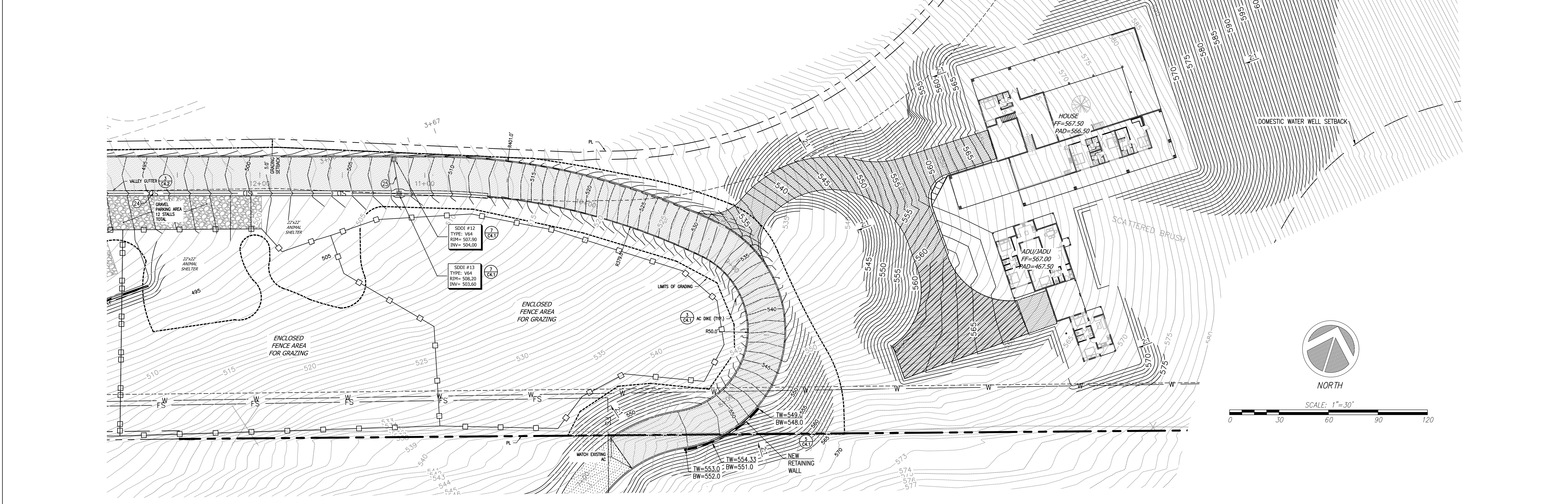
PROJECT EARTHWORK QUANTITIES

NOTE: THE EARTHWORK QUANTITIES SHOWN HEREON ARE EXCLUSIVE OF WALL FOOTINGS, EXISTING PAVEMENT REMOVAL AND OVER EXCAVATION AND RECONSTRUCTION, 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
MAIN BUILDING	8609	4270	4339(C)	20	9
ADU/JADU	152	756	604(F)	6	14
DRIVEWAY	0	2678	2678(F)	8	6
ROAD	2808	3030	222(F)	11	10
SHELTERS	120	202	82(F)	3	3
TOTAL	11689	10936	753(C)		

NET VOLUME = 753 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.



2 ALTERNATE SITE PLAN

Scale: 1:30

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

ALTERNATE SITE PLAN

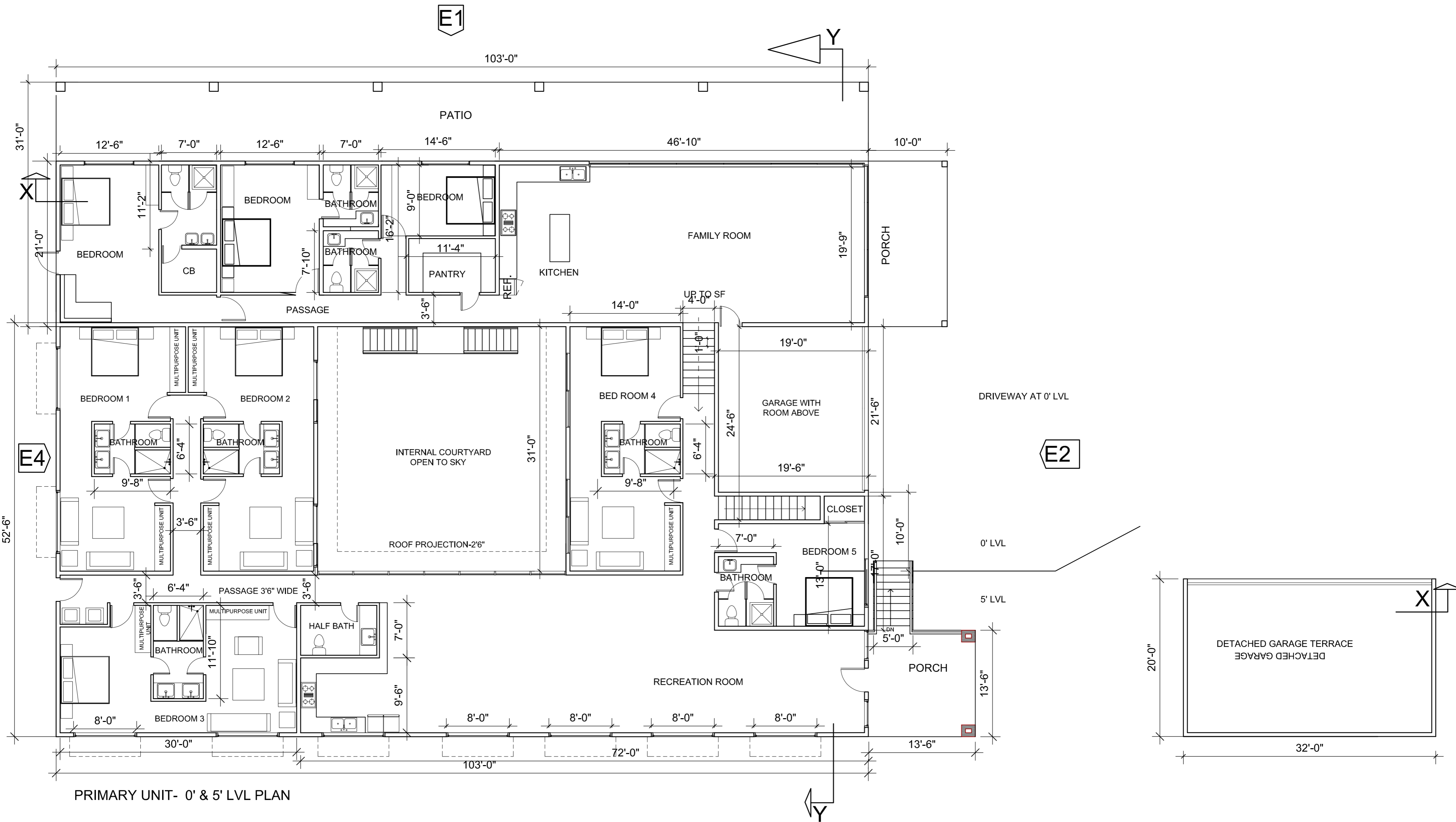


C2G CIVIL CONSULTANTS GROUP, INC.
 Engineers/Planners
 4400 Scotts Valley Road, Suite 6
 Scotts Valley, CA 95066
 T (831) 438-4420 F (831) 438-4420

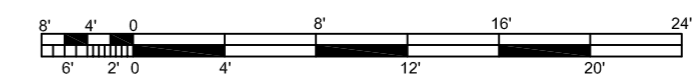
BARSANA RESIDENCE
 AUGUSTE COURT
 APN: 029-35-007

Date:	08/06/21
Scale:	AS SHOWN
Drawn:	DD
Job:	3007.02
Sheet:	C6.1
of	31 Sheets

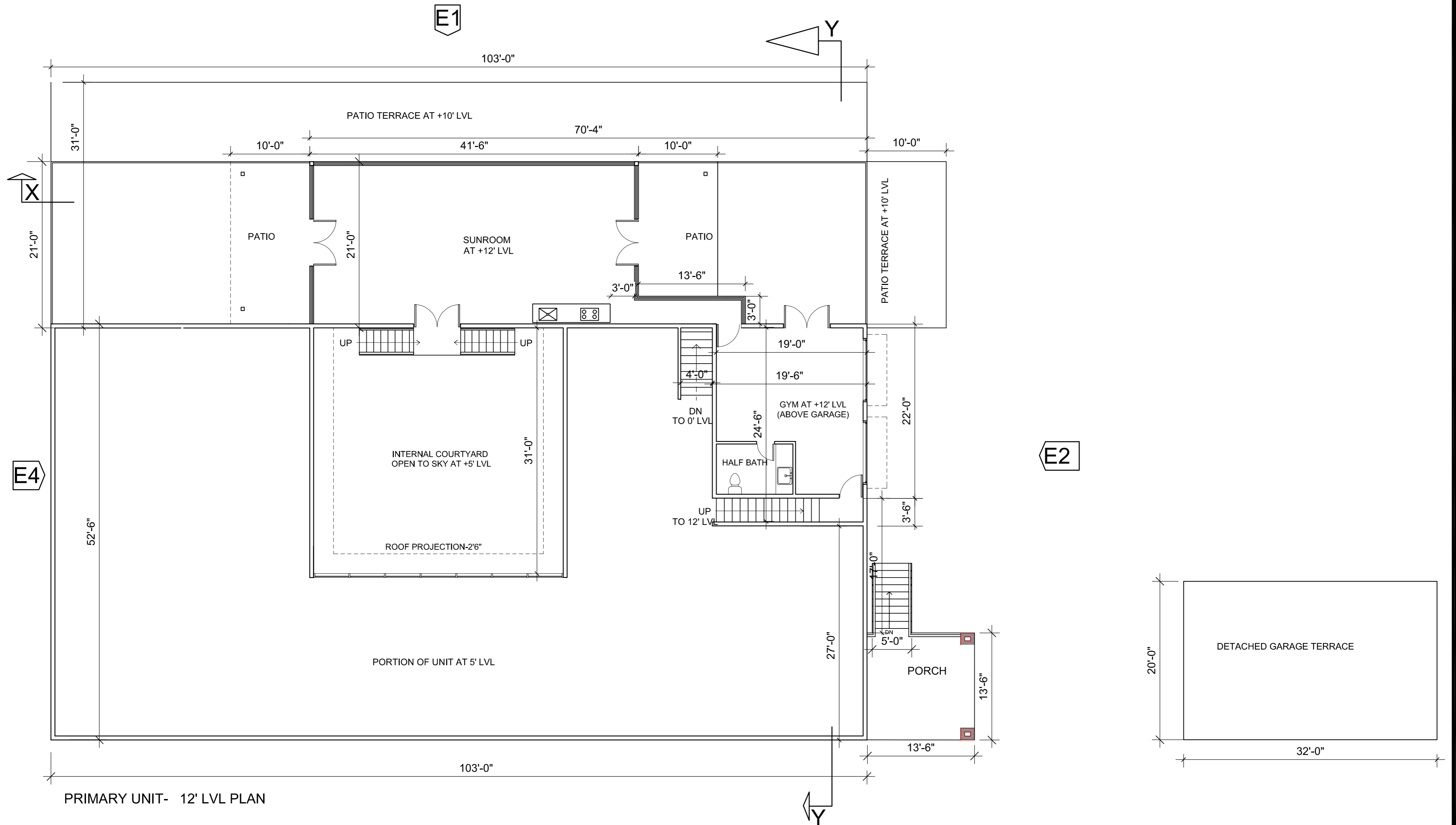
Drawing: 2 (Sheet) CAD (1007.02) - 01 - Sept. Query 15 - 2023 - 8:17pm
 Copy: 06.1
 Date: 08/06/21
 Scale: AS SHOWN
 Drawn: DD
 Job: 3007.02
 Sheet: C6.1
 of 31 Sheets
 C2G CIVIL CONSULTANTS GROUP, INC. 4400 Scotts Valley Road, Suite 6, Scotts Valley, CA 95066. T (831) 438-4420 F (831) 438-4420
 Professional Engineer Todd R. Creamer, No. C 64561, Exp. 6/30/23, Civil, State of California.



PRIMARY UNIT- 0' & 5' LVL PLAN



<p>BARSANA 1 AUGUSTE CT, MILPITAS, CA 95035</p>	<p>AJAY GOYAL 748 BLUE STONE CIRCLE, FOLSOM CA 95630 916-294 - 5337</p>	<p>DRAWN BY: NEHA</p>	<p>DATE: 07-02- 2021 SCALE: 1:100</p>	<p>LOCATION: APN 029-35-007</p>	<p>SUBJECT: PRIMARY RESIDENCE 0' AND 5' LVL PLAN</p>	<p>DRAWING NO. : P01</p>
---	---	---------------------------	---	-------------------------------------	---	------------------------------



PRIMARY UNIT- 12' LVL PLAN

BARSANA
1 AUGUSTE CT, MILPITAS, CA 95035

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

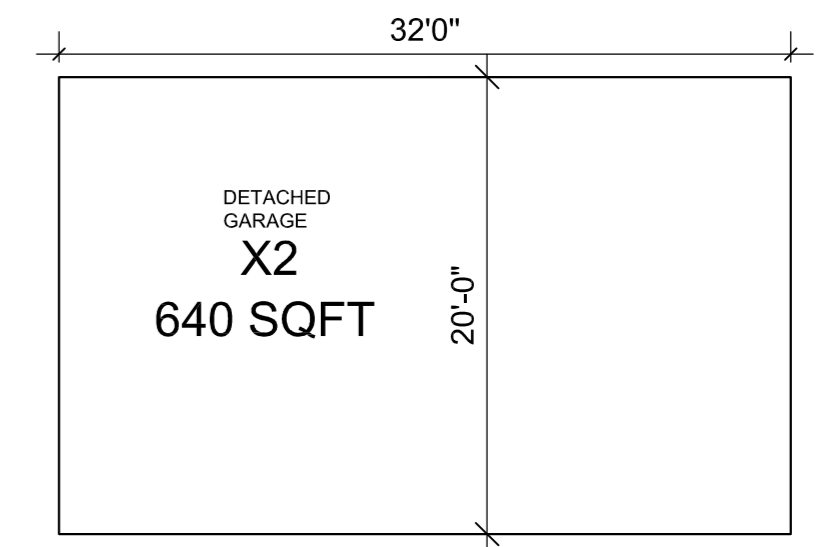
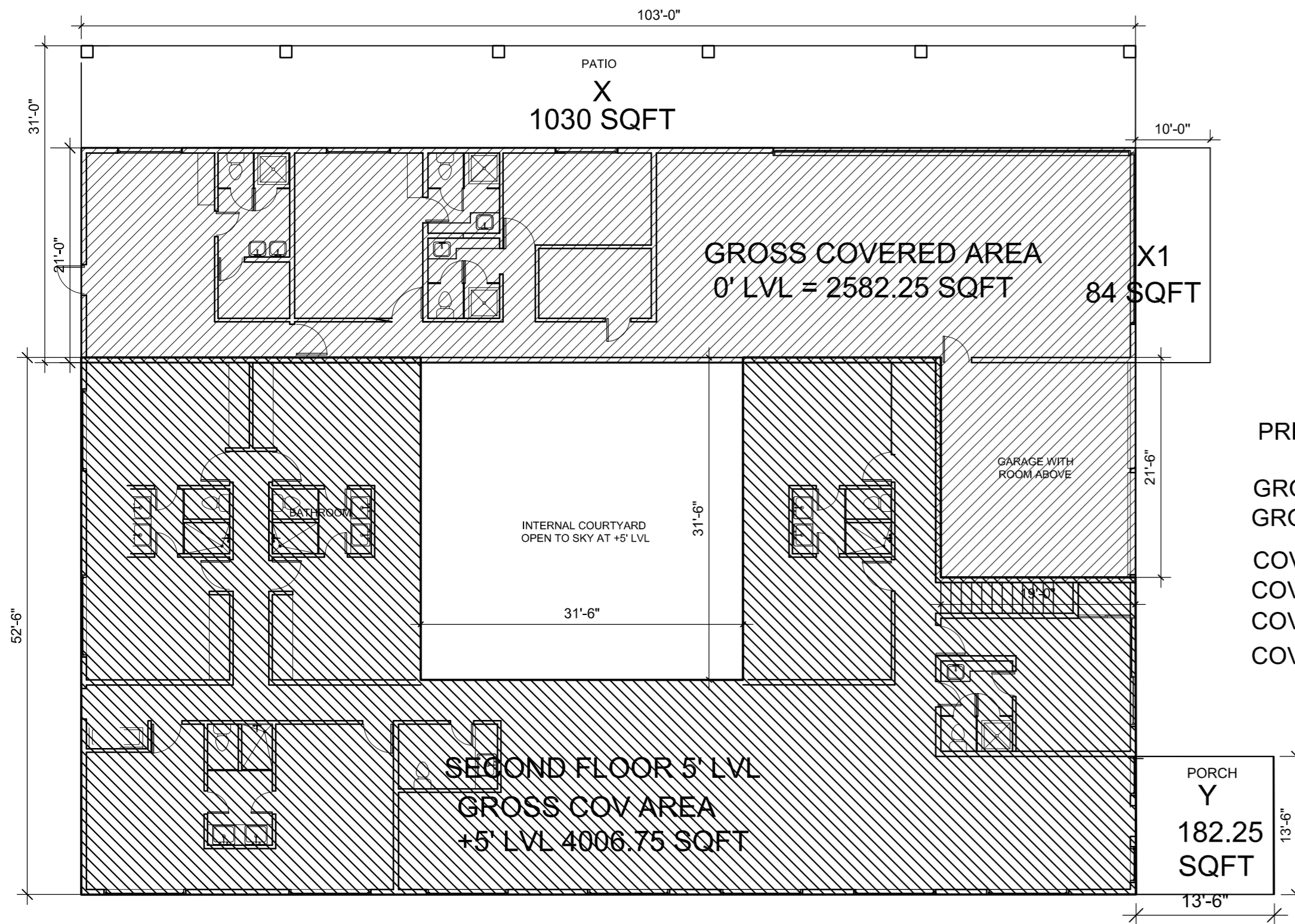
DRAWN BY:
NEHA

DATE: 07-02- 2021
SCALE: 1:100

LOCATION:
APN 029-35-007

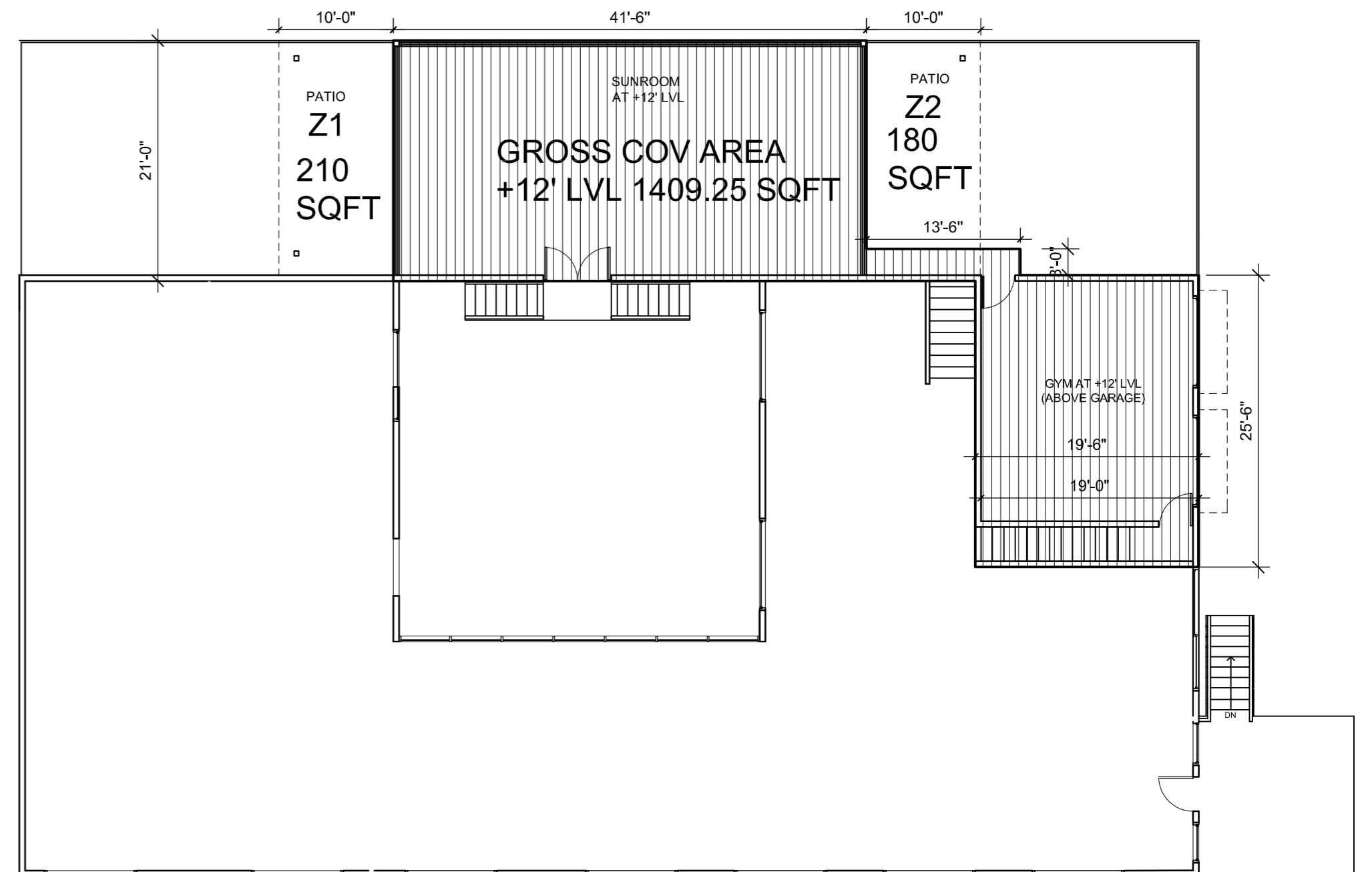
SUBJECT:
PRIMARY RESIDENCE
12' LVL PLAN

DRAWING NO. :
P02

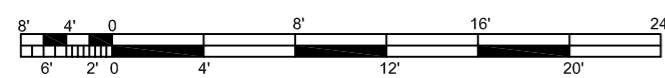


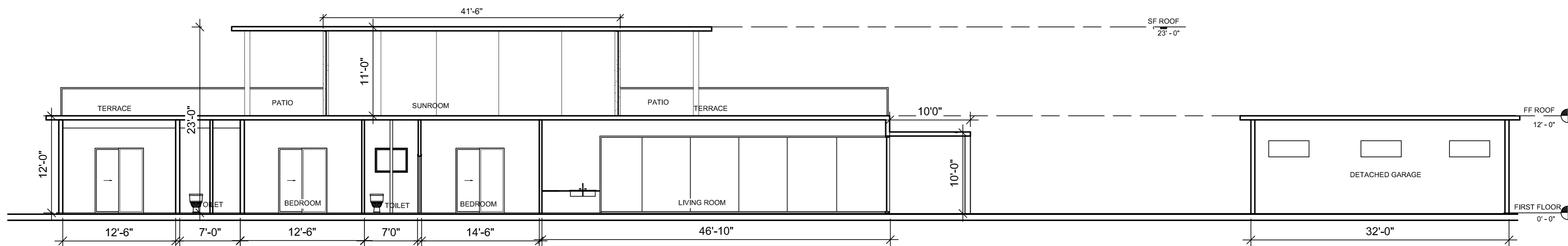
PRIMARY RESIDENCE- AREA ANALYSIS OF 12' LVL PLAN

GROSS AREA OF +12' LVL PLAN =1409.25 SQFT
 COVERED AREA OF PATIO Z1= 210 SQFT
 COVERED AREA OF PATIO Z2= 180 SQFT

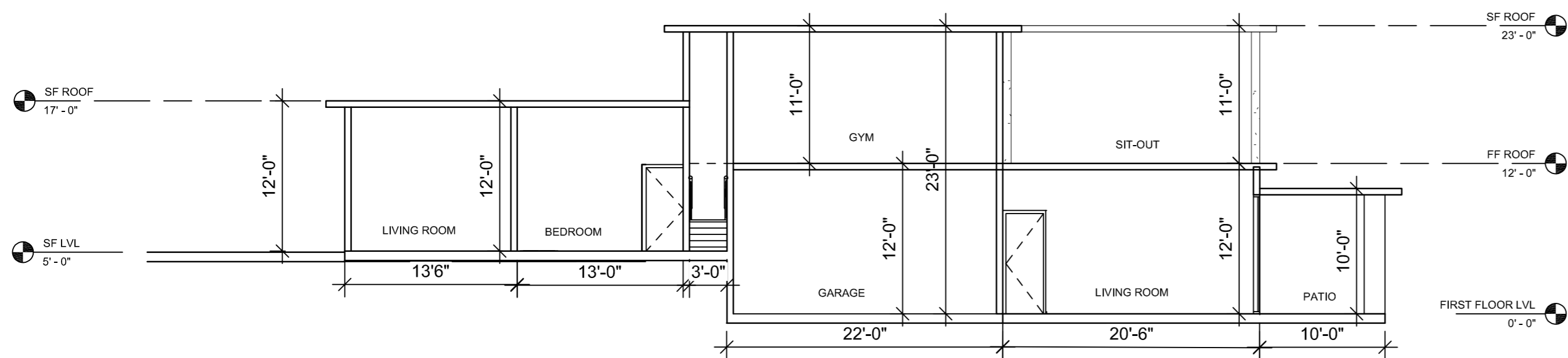


AREA TABULATION		
LVL	BUILDING PORTION	GROSS AREA
0'	ENTERTAINMENT RM,BED ROOM,KITCHEN,TOILET,PANTRY	2582.25 SQFT
5'	RECREATION RM,BED ROOMS,TOILET,STAIRS	4006.75 SQFT
12'	GYMNASIUM,SUNROOM	1409.25 SQFT
		7998.25 SQFT

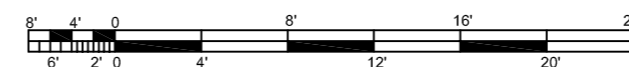




SECTION : X-X



SECTION : Y-Y



BARSANA
1 AUGUSTE CT, MILPITAS, CA 95035

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

DRAWN BY :
NEHA

DATE: 07-02-2021
SCALE: 1:100

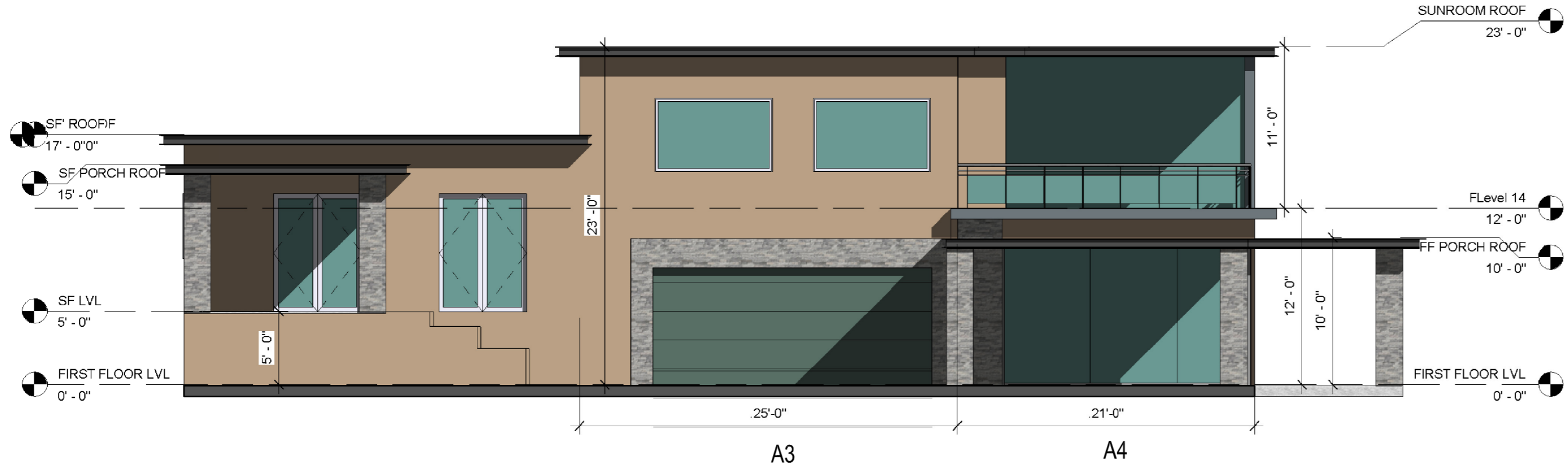
LOCATION:
APN 029-35-007

SUBJECT:
PRIMARY RESIDENCE
SECTIONS

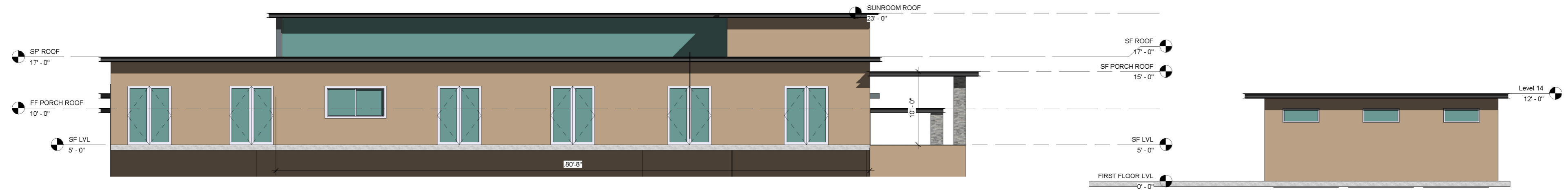
DRAWING NO. :
P04



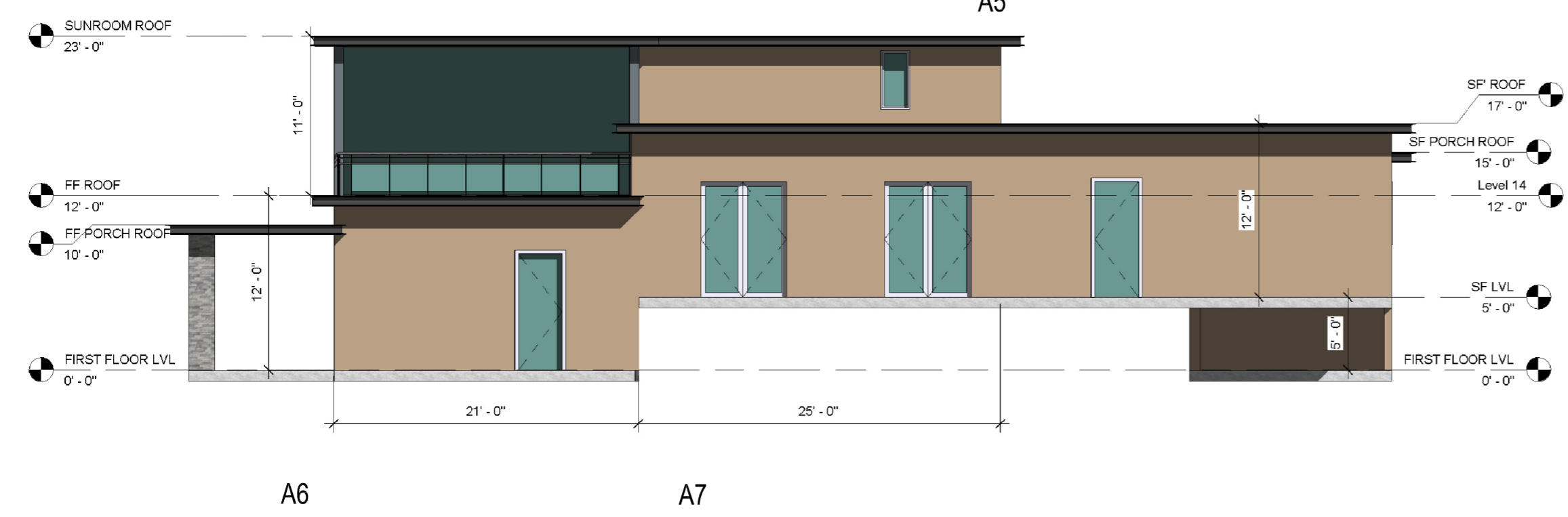
ELEVATION E1



ELEVATION E2

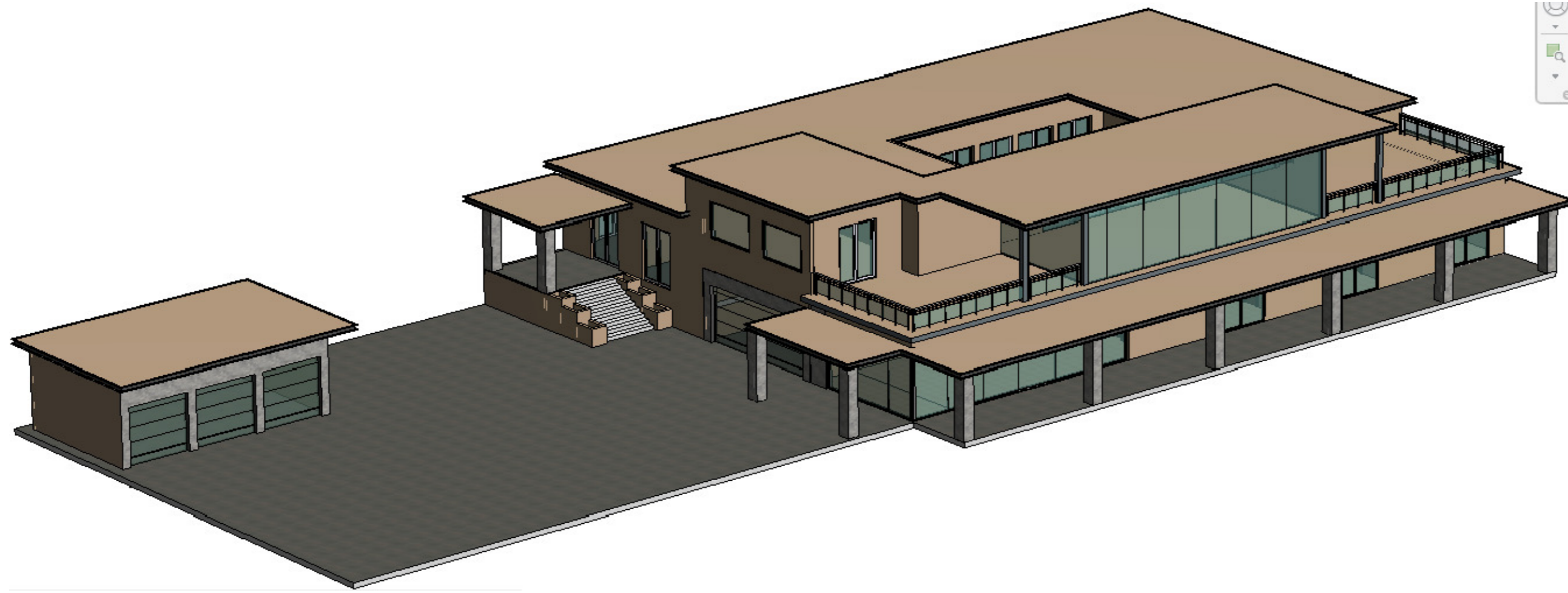


ELEVATION E3

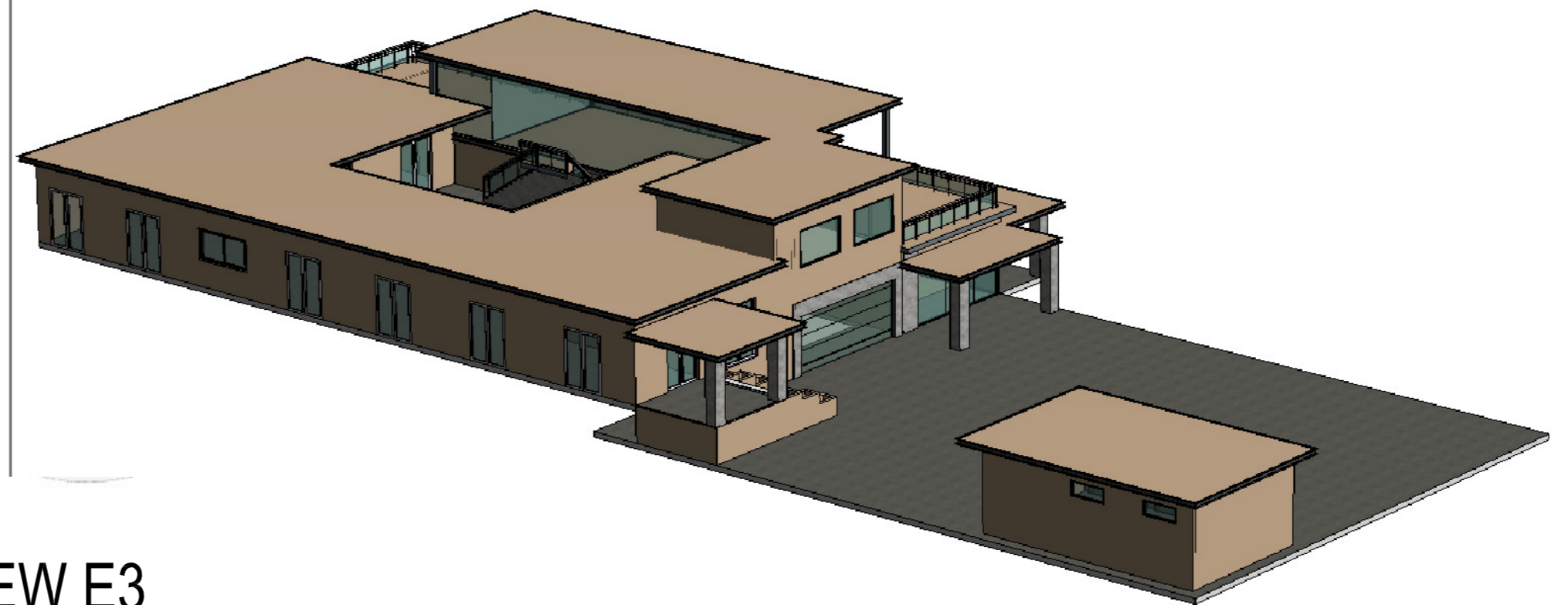
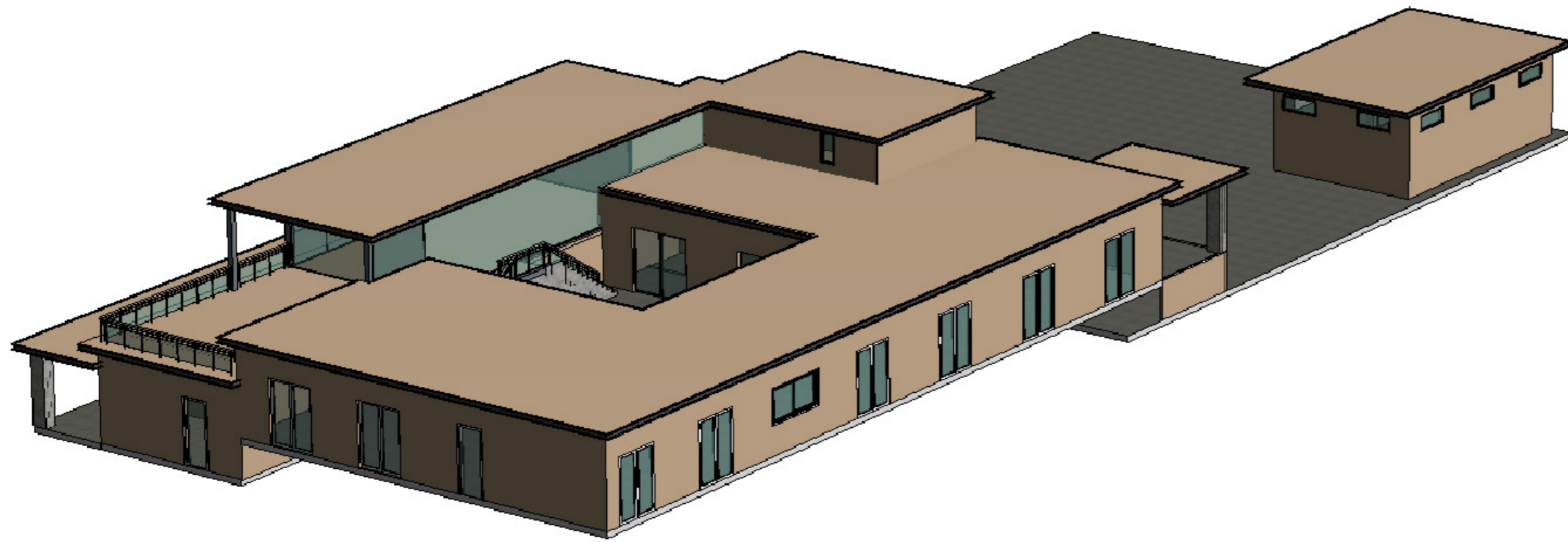


ELEVATION E4

COLOR AND MATERIAL PALETTE				
WALL CLADDING	METAL ROOFING, GUTTER, EAVES	ENTRANCE WALL	GARAGE DOOR	DOOR, WINDOW, FRAME, TRIMS
PALM DESERT TAN (LRV43.07)	WOLF GREY (LRV 19.89)	MSI ALASKA GREY (LRV 44.42)	WOOD FINISH (LRV 35.71)	WHITE (LRV 99.2)

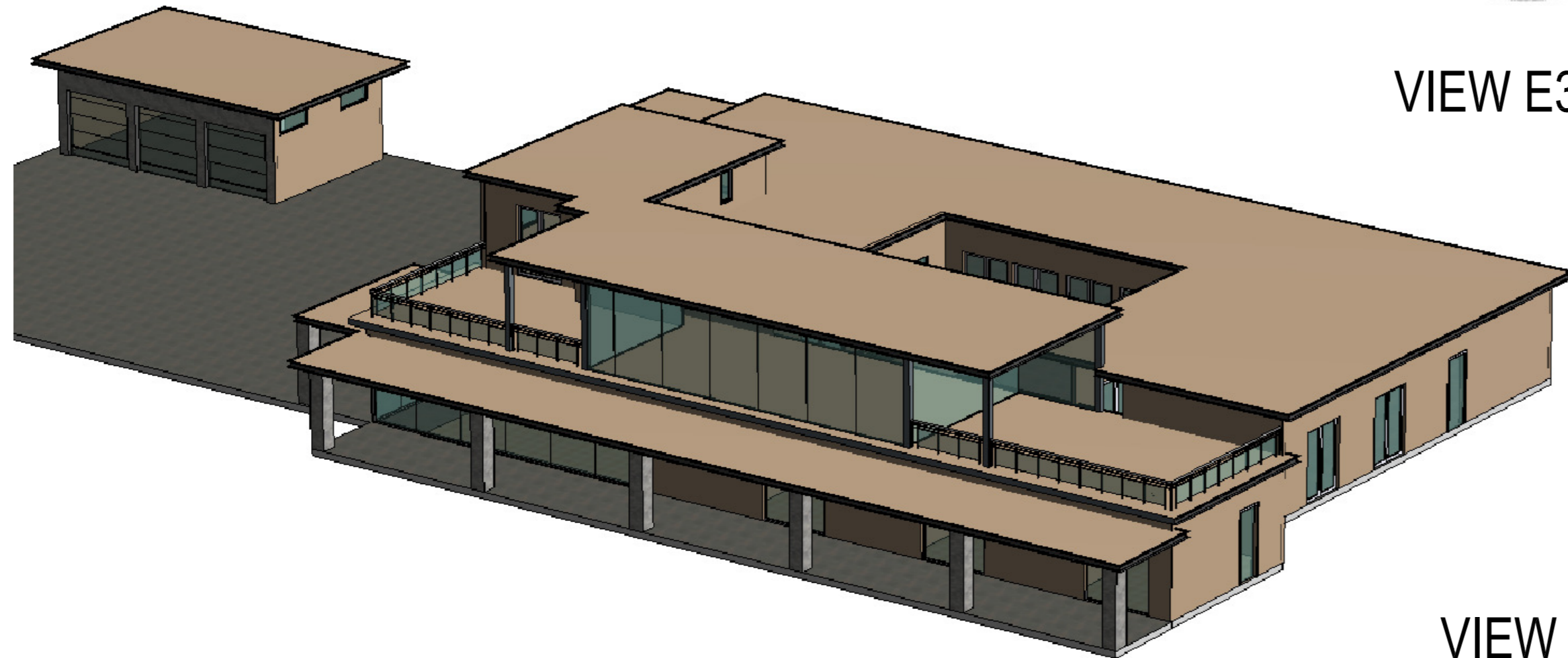


VIEW E1



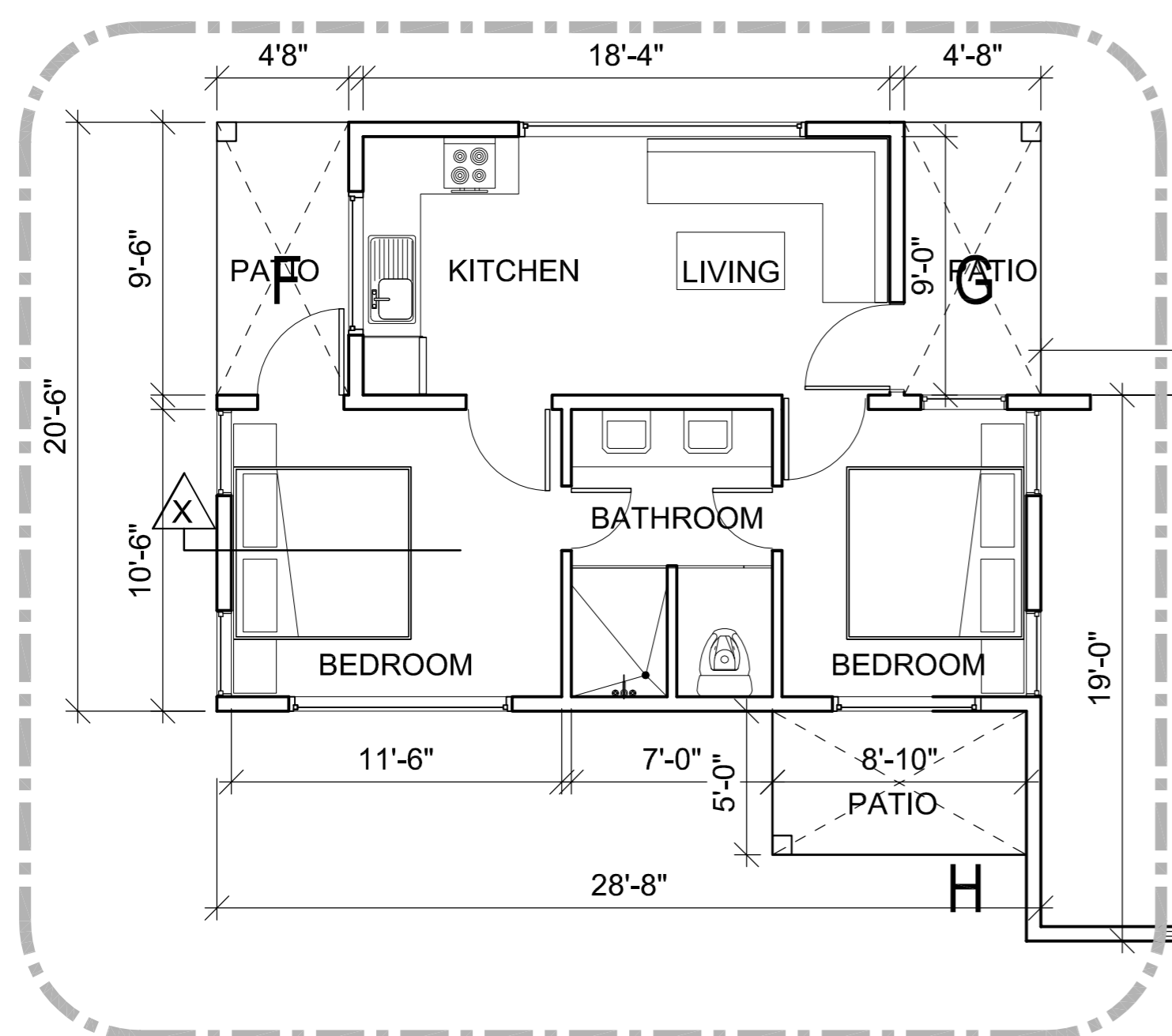
VIEW E3

VIEW E2



VIEW 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 99.2)



JADU UNIT

COVERED AREA CALCULATIONS		
ID	SIZE	Area (SQFT)
ADU	42'0" x 39'0" - AREA (A+B+C+E) =(42x39)-(76.188+76.188+82.75+204)	1198.75
JADU	28'8" x 20'6" - AREA (F+G) =(28'8"x20'6")-(44.33+44.33)	499.01
TOTAL UNIT AREA ADU+JADU =		1697.76 SQFT

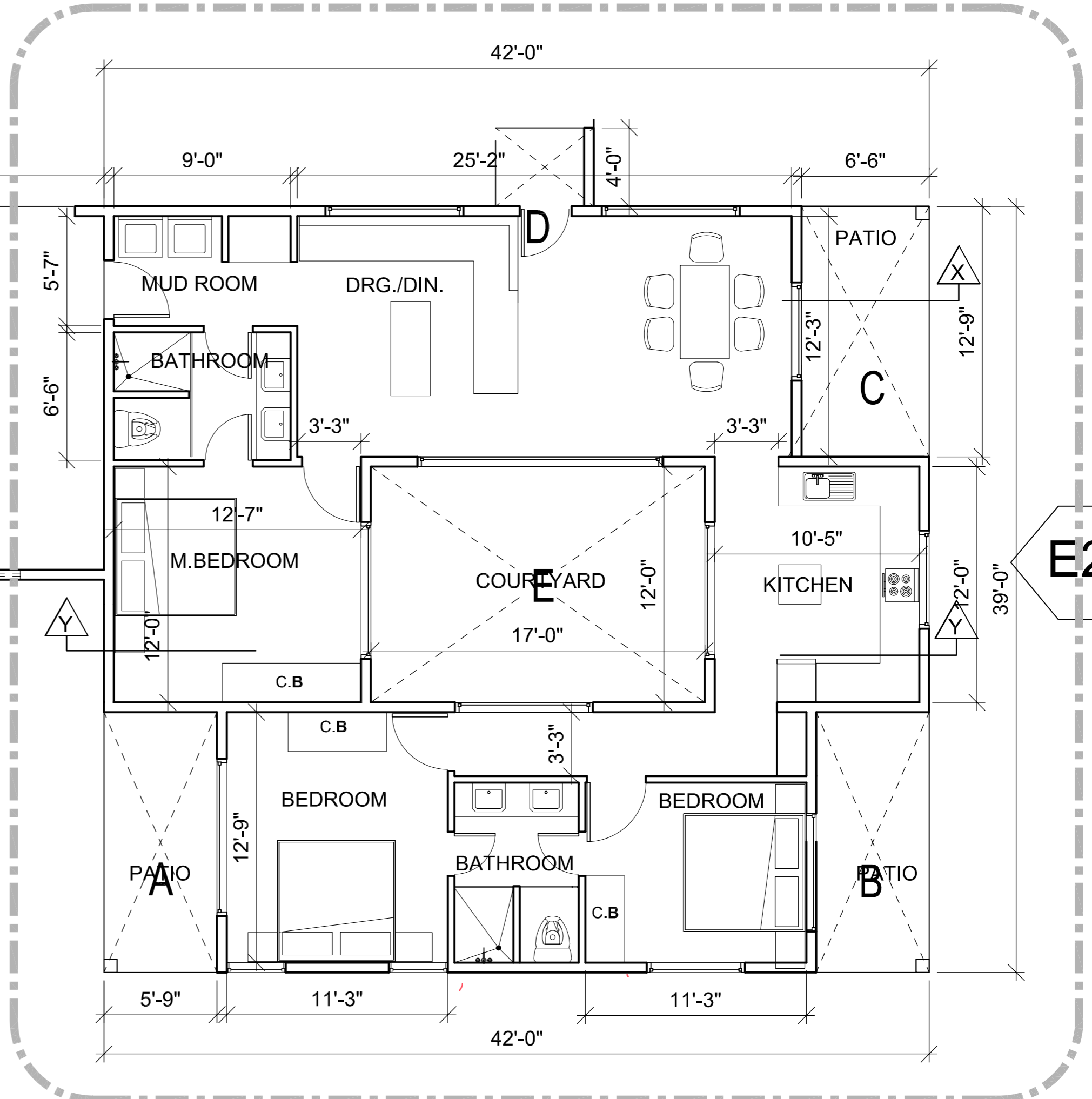
COVERED & PARTIALLY ENCLOSED AREA CALCULATIONS			
ID		size	Area (SQFT)
A	ADU	5'9" x 13'3"	76.188
B	ADU	5'9" x 13'3"	76.188
C	ADU	6'6"x12'9"	82.875
D	ADU	5'0" x 4'0"	20.00
TOTAL ADU			255.251 SQFT
F	JADU	4'8" x 9'6"	44.33
G	JADU	4'8" x 9'6"	44.33
H	JADU	8'10"x5'0"	44.17
TOTAL JADU			132.83 SQFT
TOTAL ADU+JADU			388.081 SQFT

J		GARAGE AREA= 21'0" x 19'0"	399 SQFT
---	--	----------------------------	----------

E1

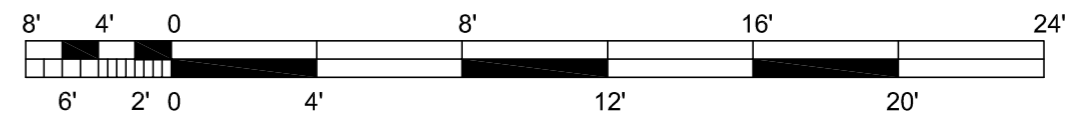
E4

E3



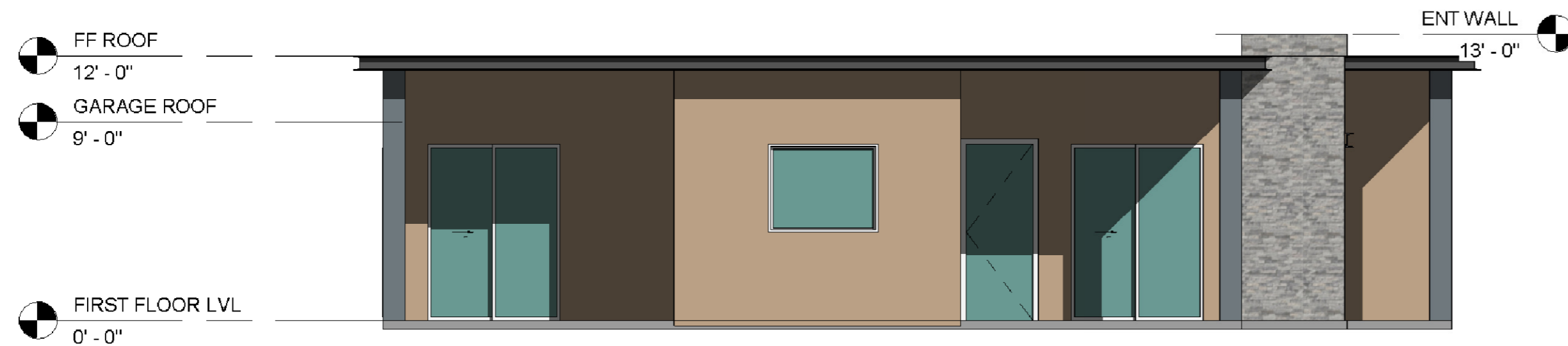
ADU UNIT

E2





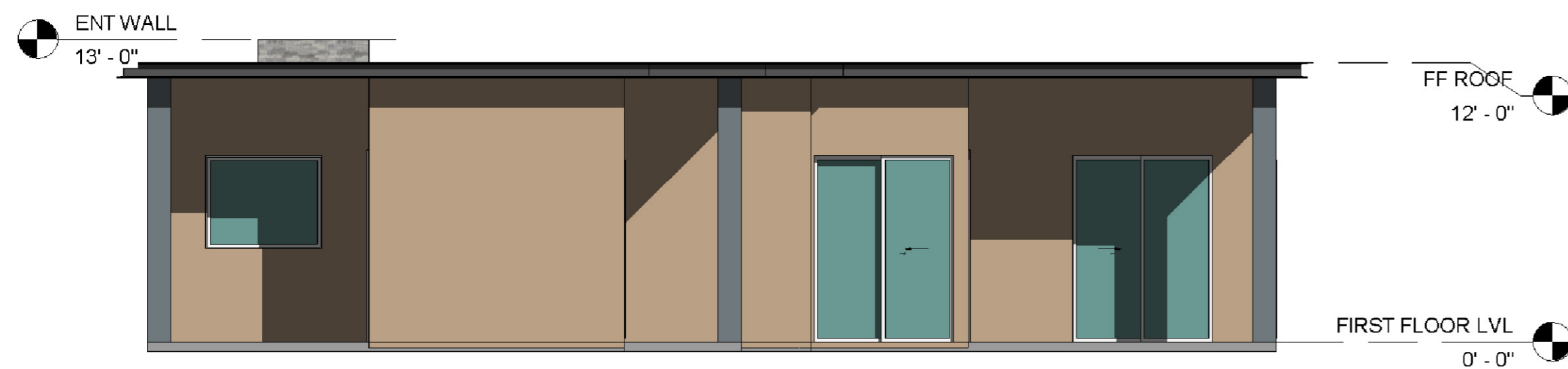
ELEVATION : E1



ELEVATION : E2

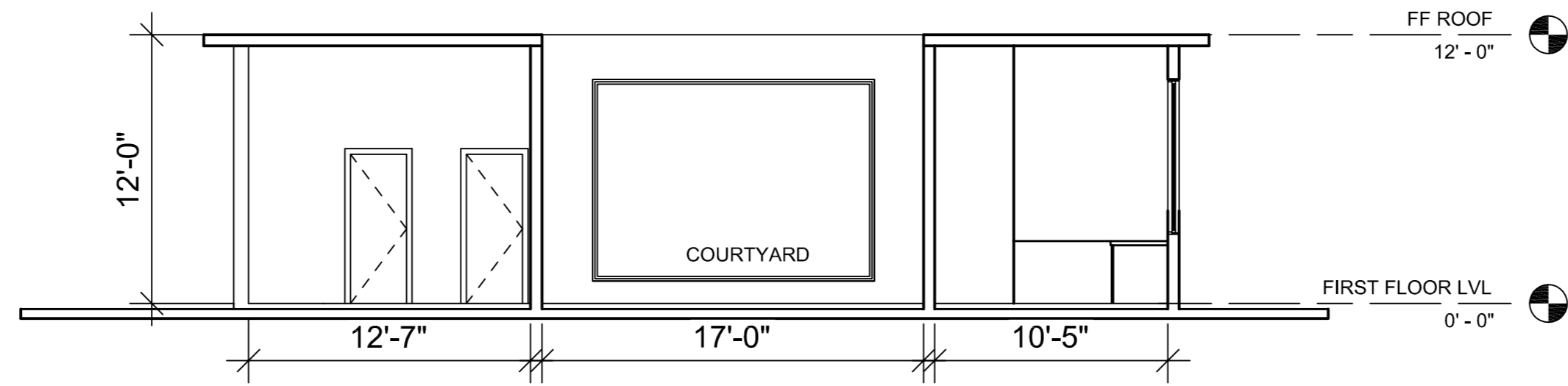


ELEVATION : E3

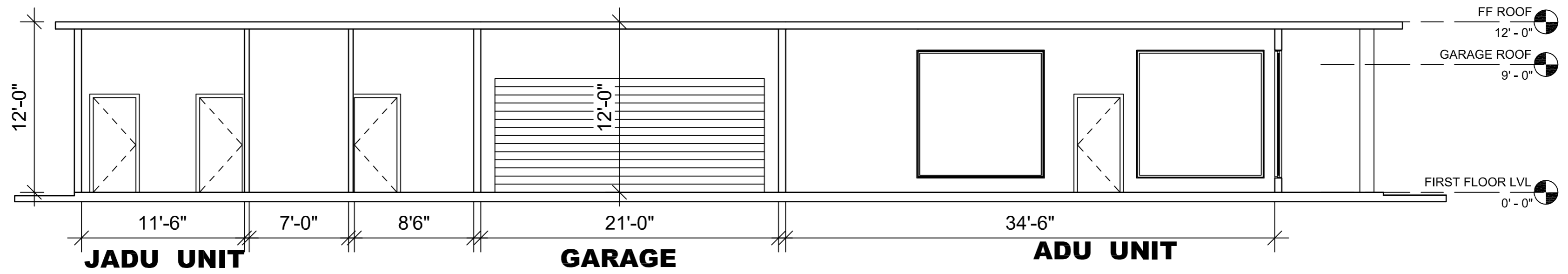


ELEVATION : E4

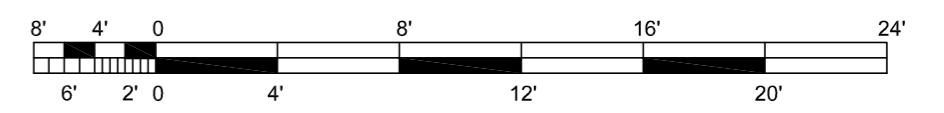
COLOR AND MATERIAL PALETTE				
WALL CLADDING	METAL ROOFING, GUTTER, EAVES	ENTRANCE WALL	GARAGE DOOR	DOOR, WINDOW, FRAME, TRIMS
PALM DESERT TAN (LRV43.07)	WOLF GREY (LRV 19.89)	MSI ALASKA GREY (LRV 44.42)	WOOD FINISH (LRV 35.71)	WHITE (LRV 99.2)



SECTION : Y-Y



SECTION : X-X



BARSANA
1 AUGUSTE CT, MILPITAS, CA 95035

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

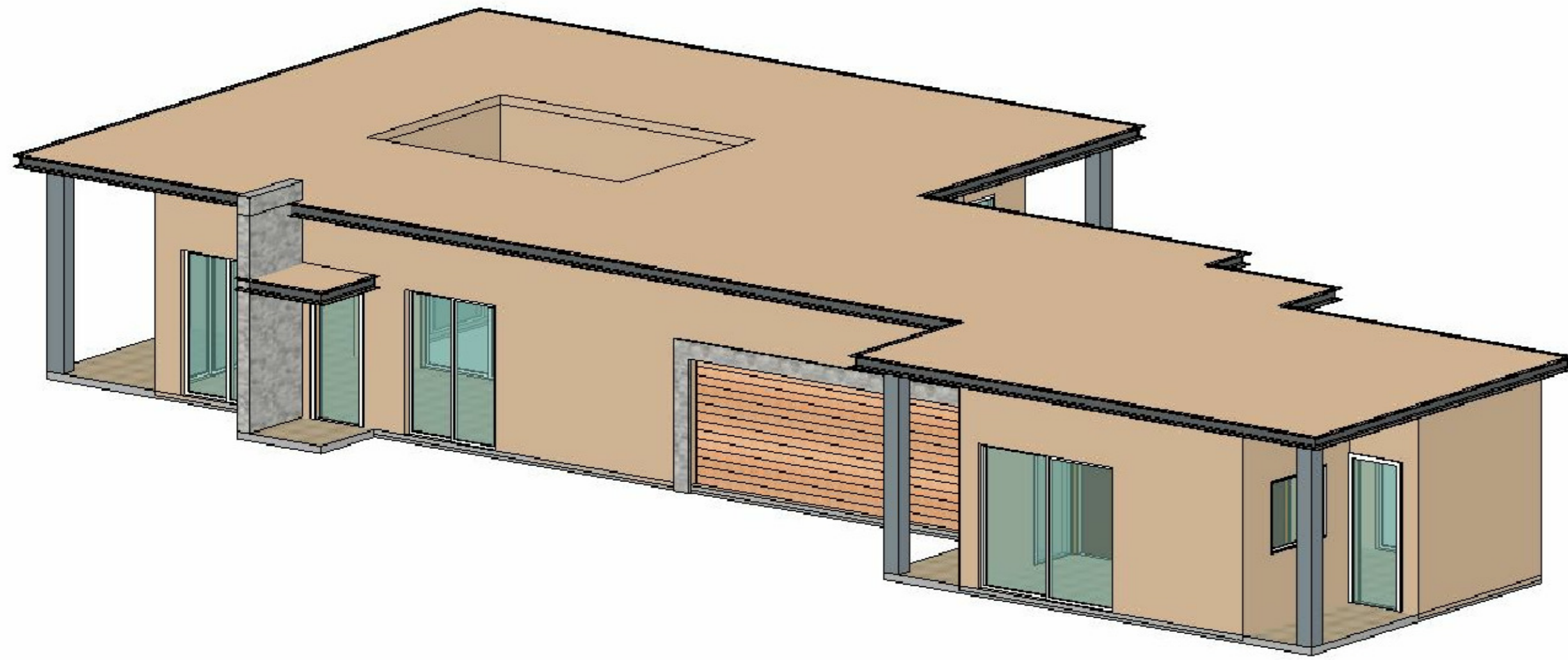
DRAWN BY:
NEHA

DATE: 07-02-2021
SCALE: 1:50

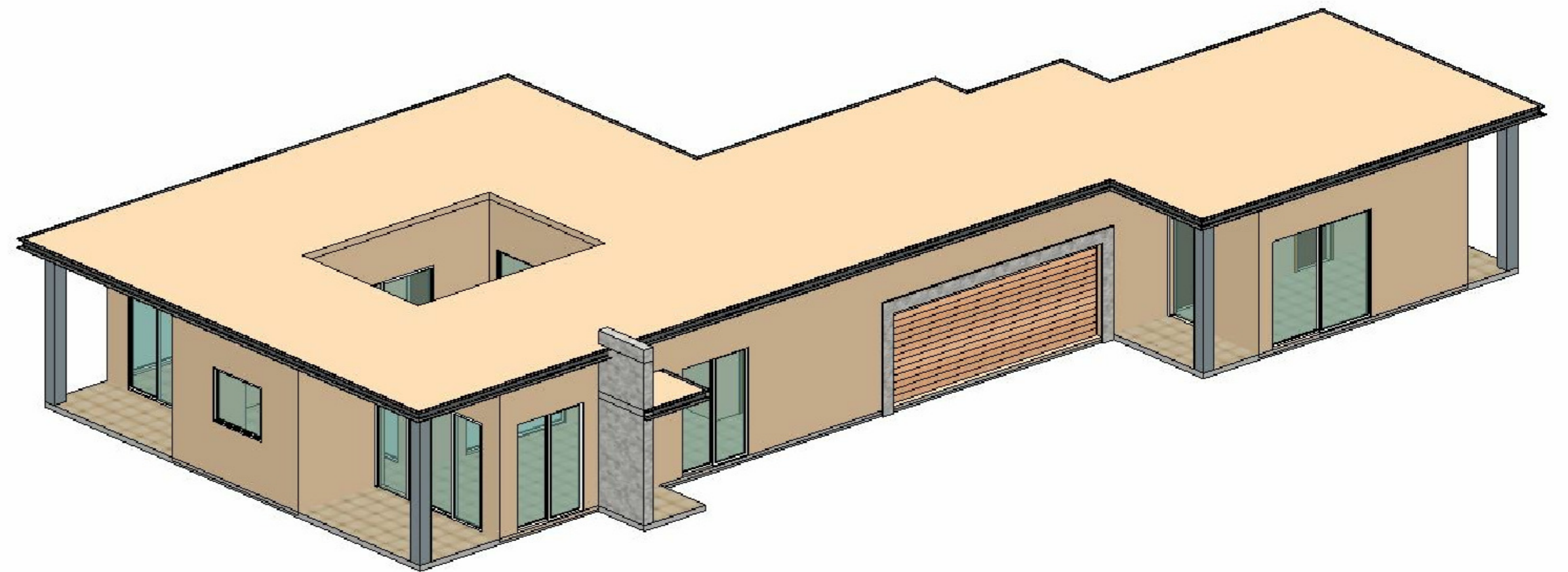
LOCATION:
APN 029-35-007

SUBJECT:
PLOT-15 ACRE: ADU, JADU UNIT SECTIONS

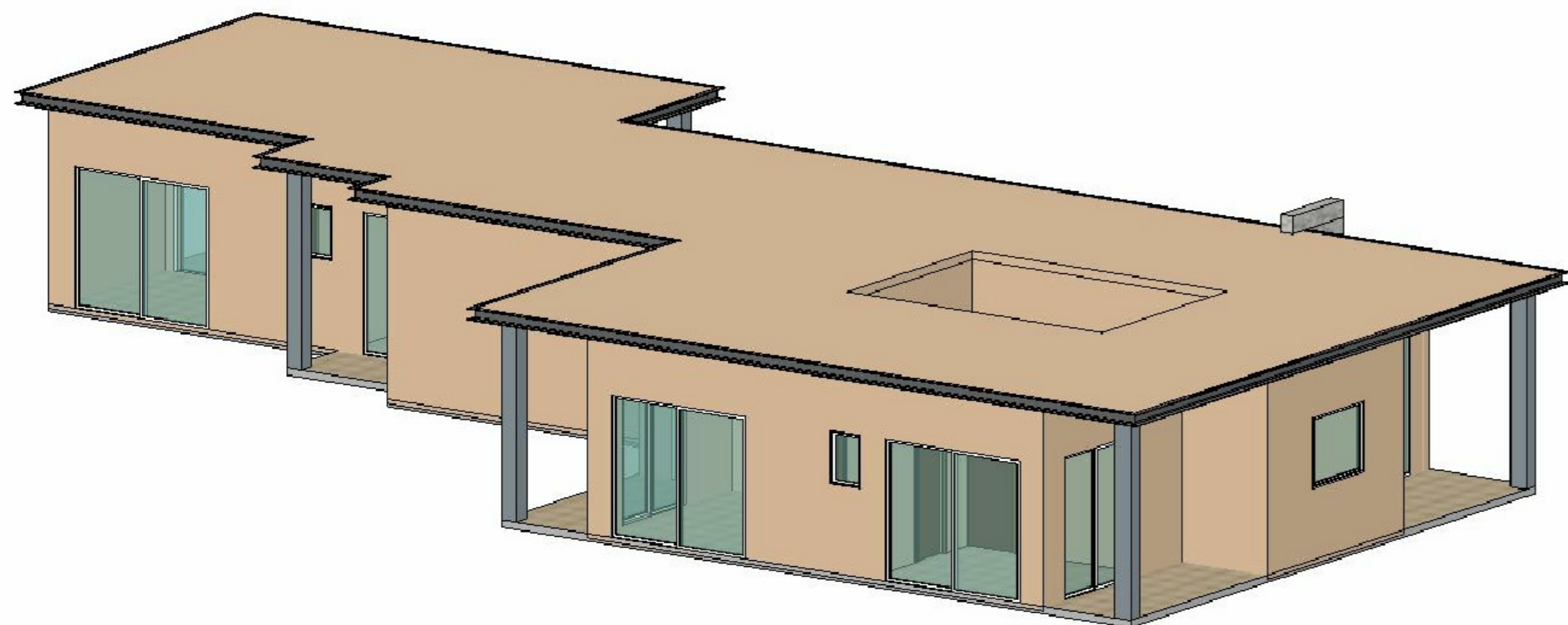
DRAWING NO. :
A03







ADU ENTRY SIDE VIEW E1

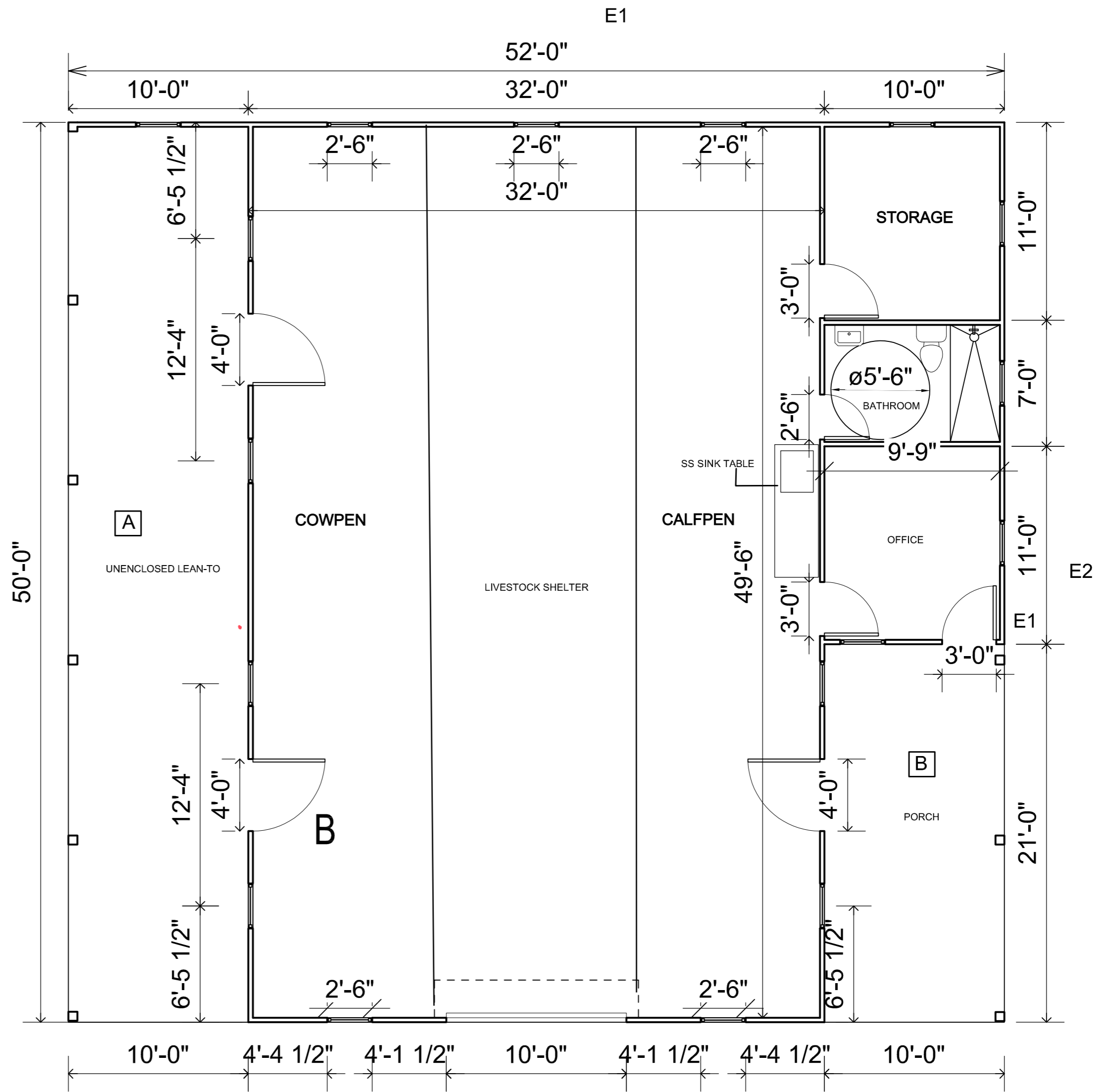


GARAGE SIDE VIEW E4



E VIEW E2

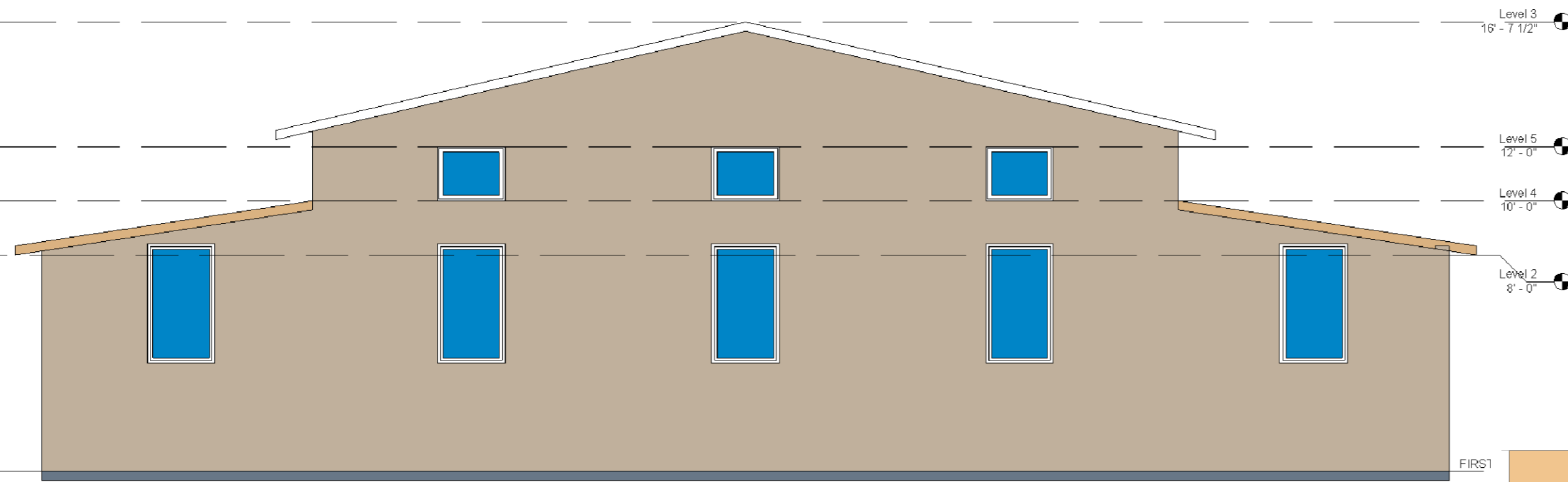
COLOR AND MATERIAL PALETTE				
WALL CLADDING	METAL ROOFING, GUTTER, EAVES	ENTRANCE WALL	GARAGE DOOR	DOOR, WINDOW, FRAME, TRIMS
PALM DESERT TAN (LRV43.07)	WOLF GREY (LRV 19.89)	MSI ALASKA GREY (LRV 44.42)	WOOD FINISH (LRV 35.71)	WHITE (LRV 99.2)
				



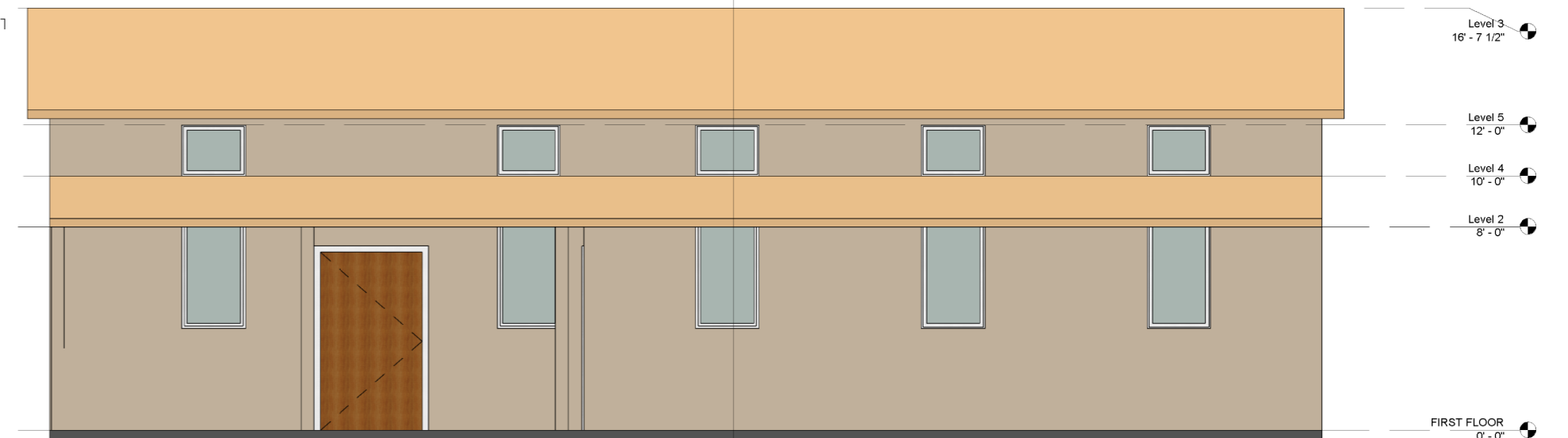
COVERED AREA CALCULATIONS		
ID	SIZE	Area (SQFT)
LSS	52'0" x 50'0" - AREA (A+B) =(2600)-(500+210)	1890.00
TOTAL UNIT AREA LIVESTOCK SHED =		1890.00 SQFT

COVERED & PARTIALLY ENCLOSED AREA CALCULATIONS		
ID	size	Area (SQFT)
A	50' x 10'	500
B	21' x 10'	210
TOTAL		710.00 SQFT

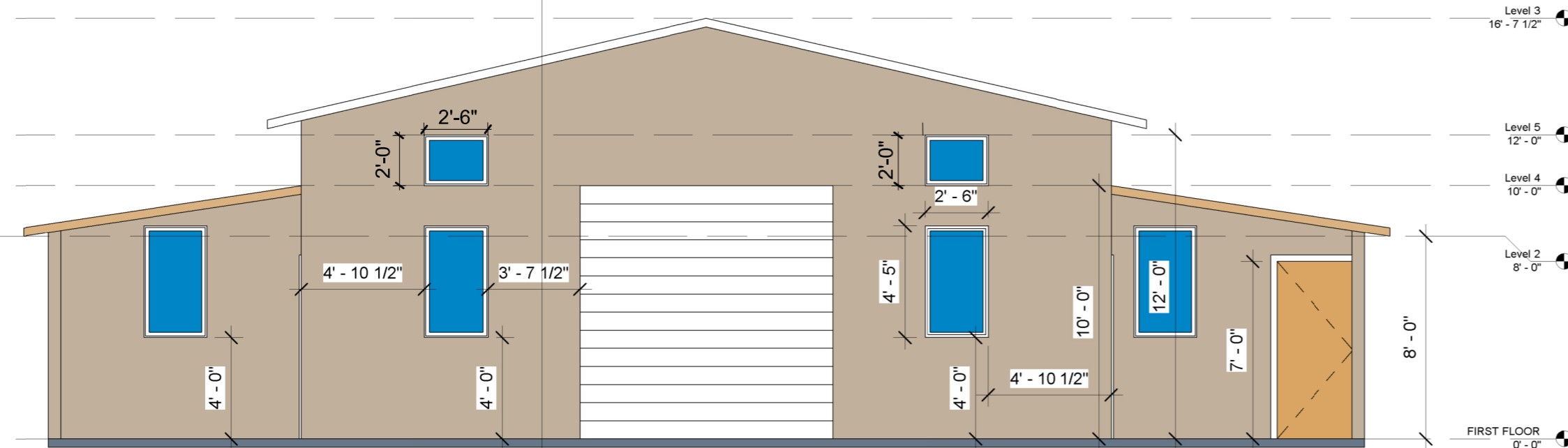
LIVE STOCK SHED PLAN



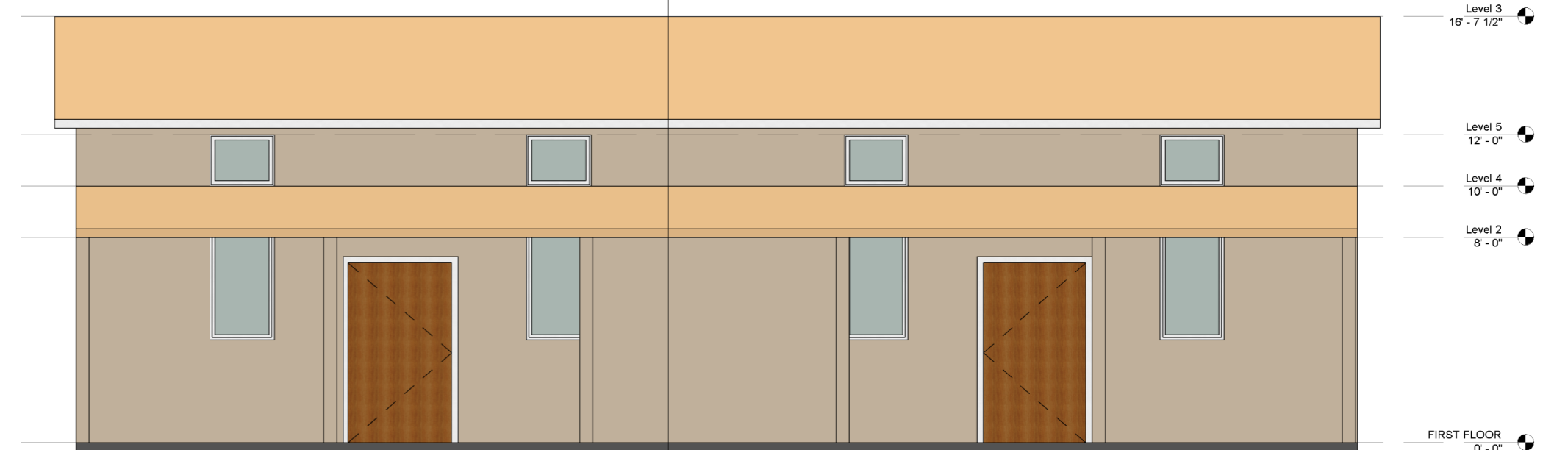
ELEVATION : E1



ELEVATION : E2

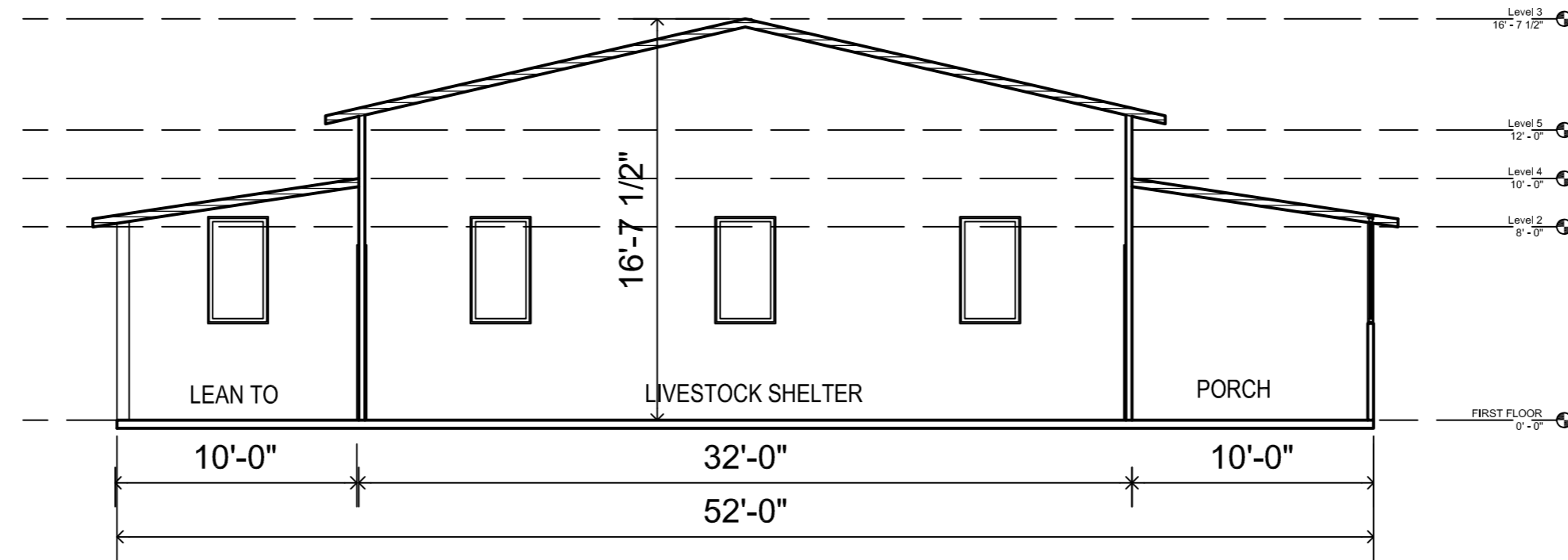


ELEVATION : E3

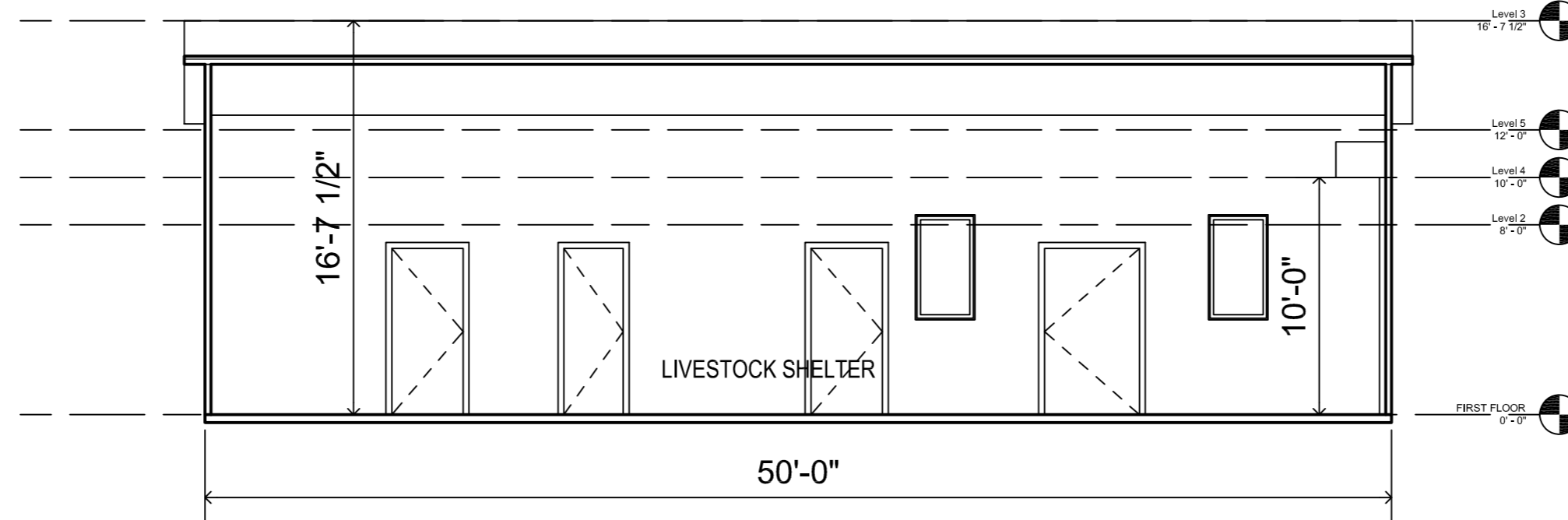


ELEVATION : E4

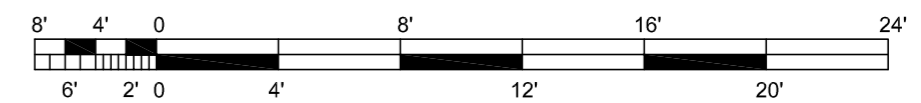
COLOR AND MATERIAL PALETTE		
WALL CLADDING	METAL ROOFING, GUTTER, EAVES	DOOR, WINDOW, FRAME, TRIMS
CLAY (LRV 41.57)	RAW HIDE (LRV 39.3)	WHITE (LRV 99.2)

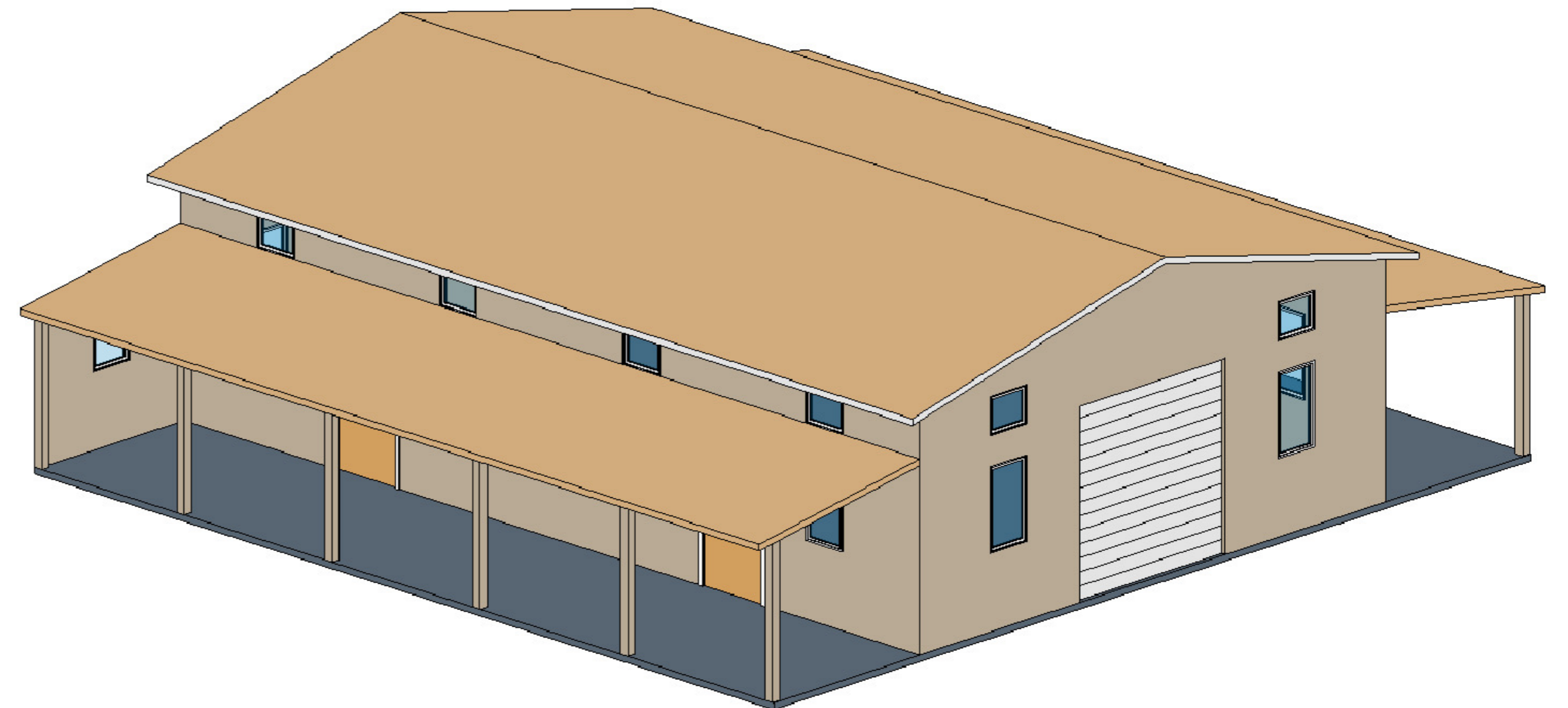
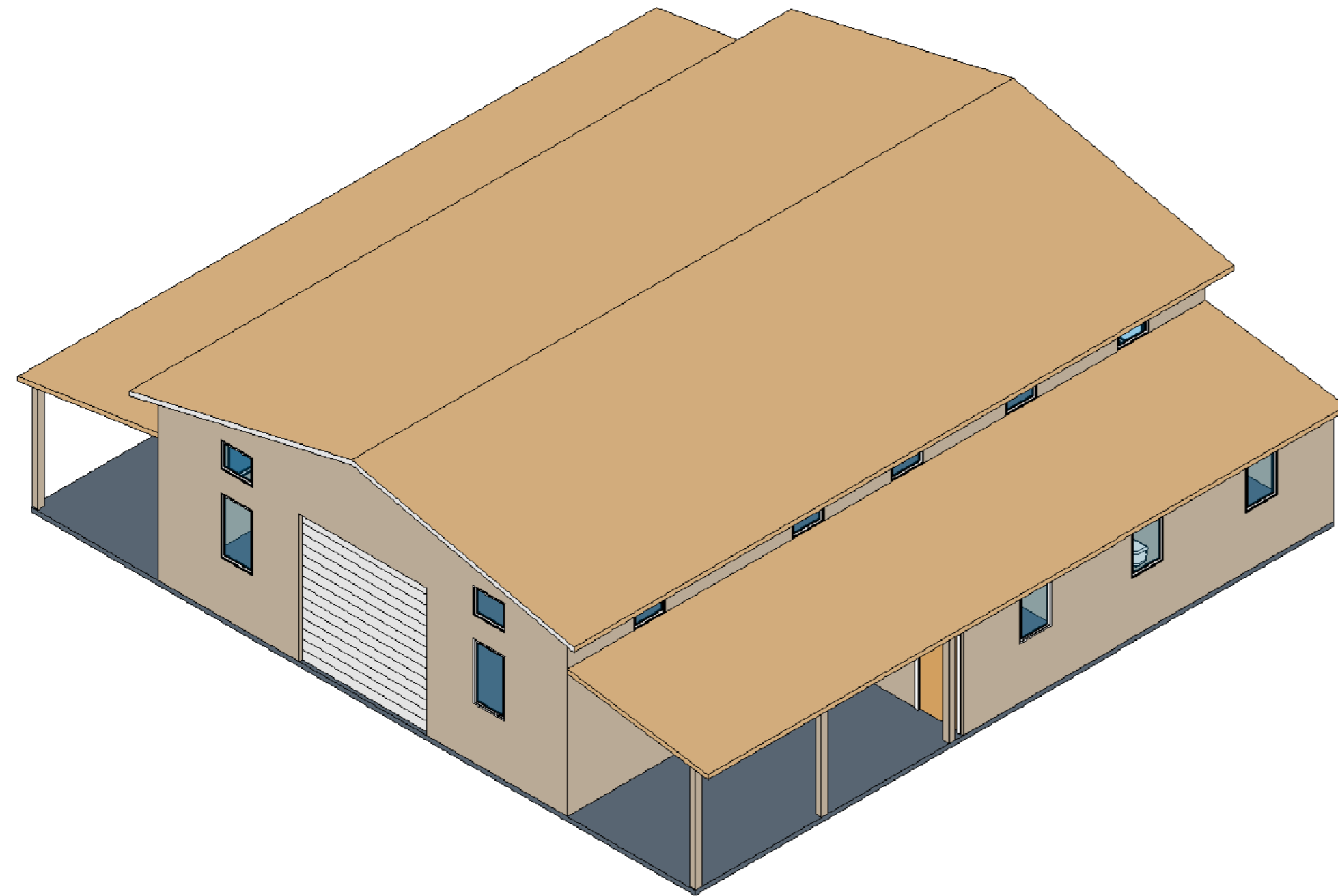


SECTION : X-X



SECTION : Y-Y





COLOR AND MATERIAL PALETTE		
WALL CLADDING	METAL ROOFING, GUTTER, EAVES	DOOR, WINDOW, FRAME, TRIMS
CLAY (LRV 41.57)	RAW HIDE (LRV 39.3)	WHITE (LRV 99.2)

BARSANA
1 AUGUSTE CT, MILPITAS, CA 95035

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

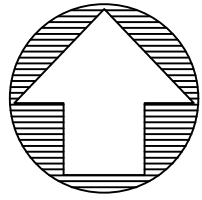
DRAWN BY :
NEHA

DATE: 14-07-2022
SCALE: 1:100, 1:200

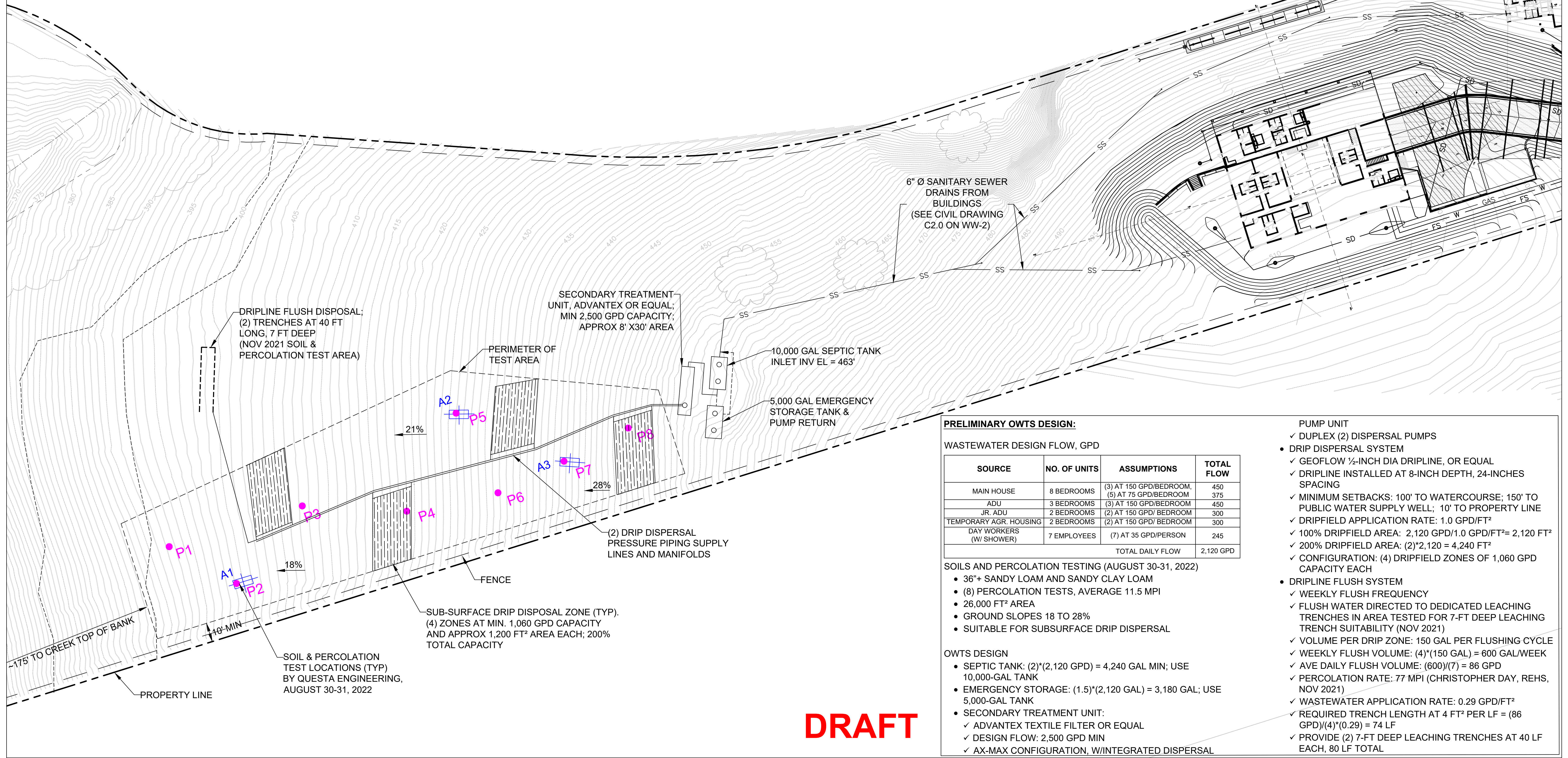
LOCATION:
APN 029-35-007

SUBJECT:
LIVESTOCK SHED VIEWS

DRAWING NO. :
LSS 04



0 30 60 Feet



PRELIMINARY OWTS DESIGN:

WASTEWATER DESIGN FLOW, GPD

SOURCE	NO. OF UNITS	ASSUMPTIONS	TOTAL FLOW
MAIN HOUSE	8 BEDROOMS	(3) AT 150 GPD/BEDROOM, (5) AT 75 GPD/BEDROOM	450
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/ SHOWER)	7 EMPLOYEES	(7) AT 35 GPD/PERSON	245
TOTAL DAILY FLOW			2,120 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 18 TO 28%
- SUITABLE FOR SUBSURFACE DRIP DISPERSAL

OWTS DESIGN

- SEPTIC TANK: (2)*(2,120 GPD) = 4,240 GAL MIN; USE 10,000-GAL TANK
- EMERGENCY STORAGE: (1.5)*(2,120 GAL) = 3,180 GAL; USE 5,000-GAL TANK
- SECONDARY TREATMENT UNIT:
 - ✓ ADVANTEX TEXTILE FILTER OR EQUAL
 - ✓ DESIGN FLOW: 2,500 GPD MIN
 - ✓ 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
 - ✓ 100% DRIPFIELD AREA: 2,120 GPD/1.0 GPD/FT²= 2,120 FT²
 - ✓ 200% DRIPFIELD AREA: (2)*2,120 = 4,240 FT²
 - ✓ CONFIGURATION: (4) DRIPFIELD ZONES OF 1,060 GPD CAPACITY EACH
- DRIPLINE FLUSH SYSTEM
 - ✓ WEEKLY FLUSH FREQUENCY
 - ✓ FLUSH WATER DIRECTED TO DEDICATED LEACHING TRENCHES IN AREA TESTED FOR 7-FT DEEP LEACHING TRENCH SUITABILITY (NOV 2021)
 - ✓ VOLUME PER DRIP ZONE: 150 GAL PER FLUSHING CYCLE
 - ✓ WEEKLY FLUSH VOLUME: (4)*(150 GAL) = 600 GAL/WEEK
 - ✓ AVE DAILY FLUSH VOLUME: (600)/(7) = 86 GPD
 - ✓ PERCOLATION RATE: 77 MPI (CHRISTOPHER DAY, REHS, NOV 2021)
 - ✓ WASTEWATER APPLICATION RATE: 0.29 GPD/FT²
 - ✓ REQUIRED TRENCH LENGTH AT 4 FT² PER LF = (86 GPD)/(4)*(0.29) = 74 LF
 - ✓ PROVIDE (2) 7-FT DEEP LEACHING TRENCHES AT 40 LF EACH, 80 LF TOTAL

DRAFT

BARSANA RESIDENCE OWTS

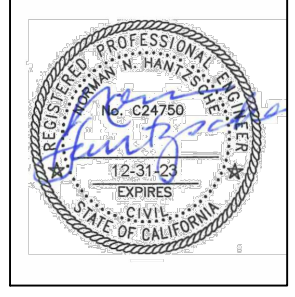
APN: 029-35-007
MILPITAS, CA

QUESTA
ENGINEERING CORP.

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:	Appr'd:

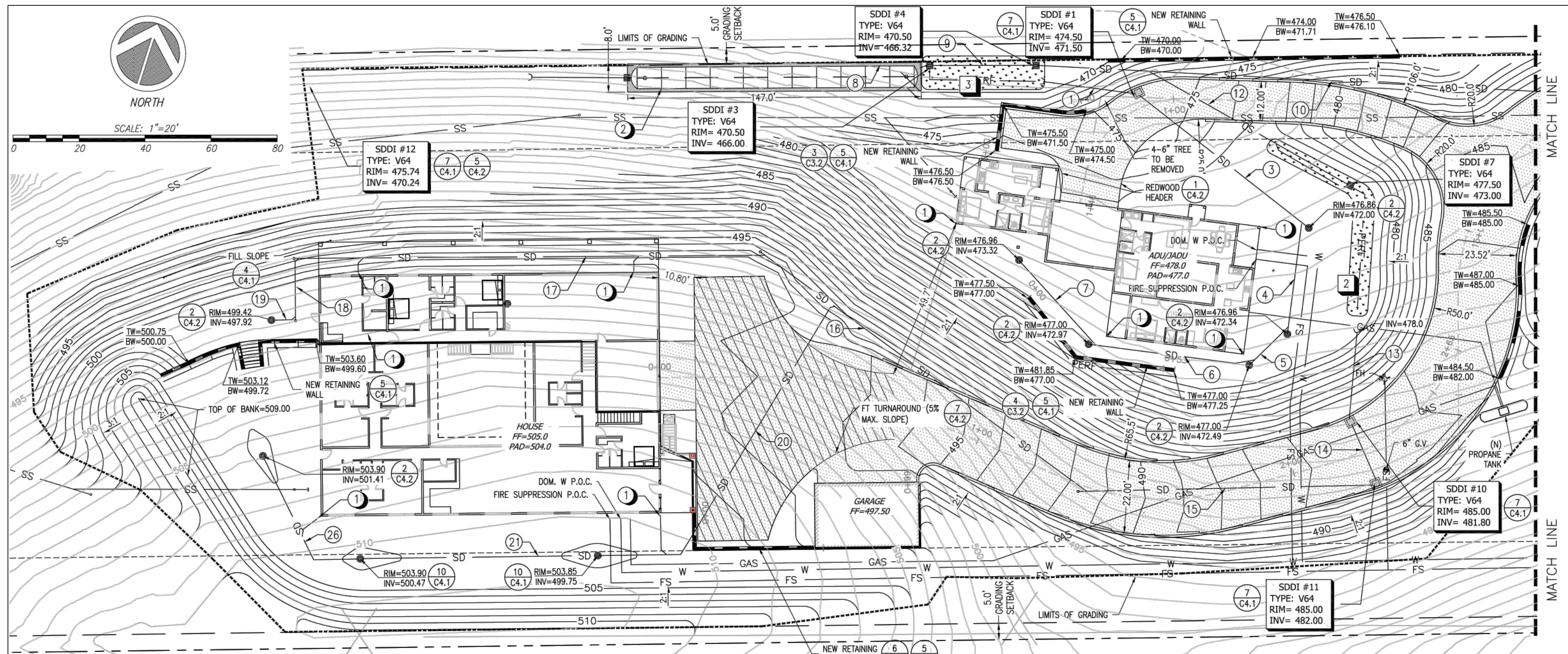
Design:	MW
Drawn:	PS
Checked:	NH
Appr'd:	NH

ONSITE WASTEWATER TREATMENT AND DISPOSAL PLAN

BARSANA RESIDENCE, MILPITAS, CA

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

LAST SAVED: 2/17/2023 PLOT DATE: 2/17/2023 PLOT STYLE: ONE INCH D-SIZE PRINT PAGE SETUP: P:\2022\2200017_BARSANA_RESIDENCE_OWTS\CAD\2200017 SITE PERCSZ.DWG



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

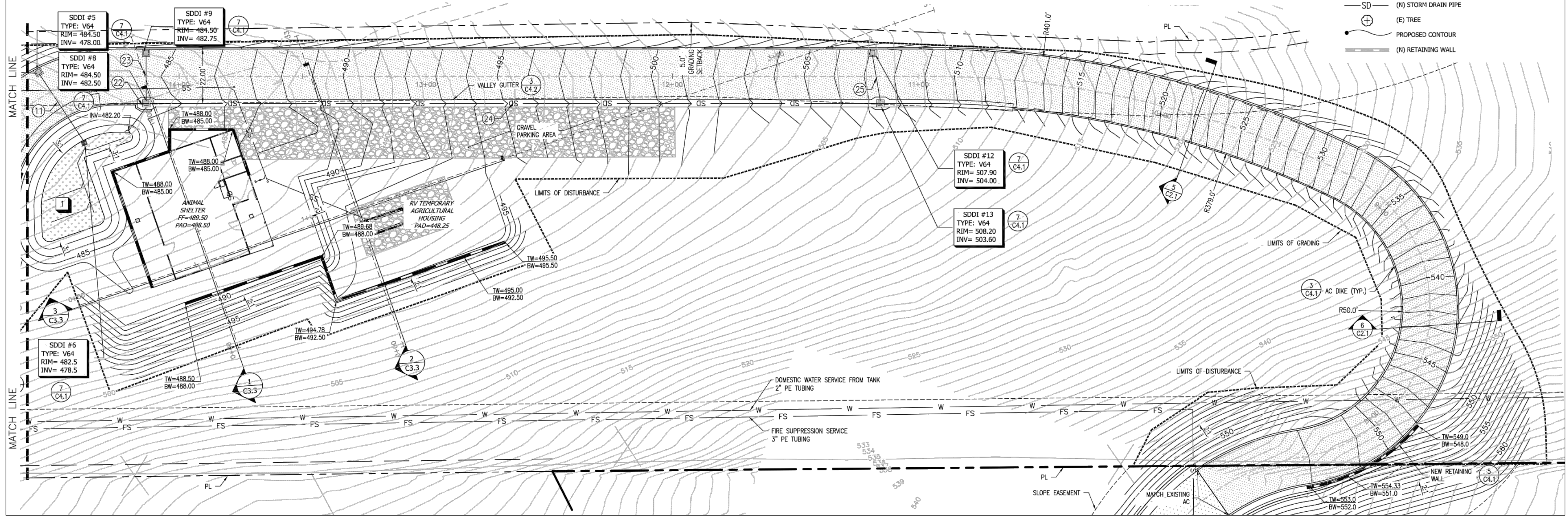
- | | |
|--------------------------------------|--------------------------------------|
| 1. 28 LF OF 8" SDR-35 @ 4.5% SLOPE | 15. 90 LF OF 6" SDR-35 @ 4.4% SLOPE |
| 2. NA | 16. 132 LF OF 6" SDR-35 @ 6.8% SLOPE |
| 3. 65 LF OF 6" SDR-35 @ 0.5% SLOPE | 17. 113 LF OF 6" SDR-35 @ 2.0% SLOPE |
| 4. 34 LF 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:

- 1. CONNECT TO BUILDING DOWNSPOUT. CONTRACTOR SHALL CONFIRM EXACT LOCATION OF DOWNSPOUT.
- 2. STORMWATER STORAGE CHAMBERS. AREA DIMENSIONS 147' X 8' SEE DETAIL 6/ SHEET C4.2.

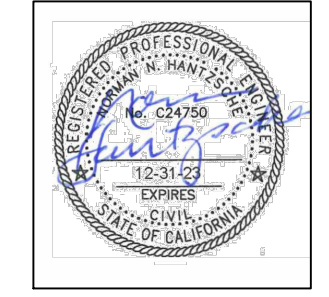
LEGEND

- (N) AC (1) (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.
 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

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

PLOT DATE: 2/17/2023
 PLOT SETUP: 1"=20'
 PLOT STYLE: 1"=20'
 D-SIZE PRINT
 ONE INCH
 LAST SAVED: 2/17/2023
 PLOT DATE: 2/17/2023
 PLOT STYLE: 1"=20'
 SITE PERCSZ.DWG