

TENTATIVE MAP "GLORIA KNOLL"

MS 24-0009
COUNTY OF CONTRA COSTA
STATE OF CALIFORNIA

RECEIVED on 10/9/2024 CDMS24-00009
By Contra Costa County
Department of Conservation and Development

OWNER

GLORIA KNOLL LLC
5009 FORNI DRIVE, SUITE A
CONCORD, CA 94520
(925) 602-8800

SUBDIVIDER

GLORIA KNOLL LLC
5009 FORNI DRIVE, SUITE A
CONCORD, CA 94520
(925) 602-8800

CIVIL ENGINEER

APEX CIVIL ENGINEERING & LAND SURVEYING
817 ARNOLD DRIVE, SUITE 50
MARTINEZ, CA 94553
(925) 476-8499

BASIS OF BEARINGS

BEARINGS ARE BASED ON THE MAP OF MS 15-0008
(217 PM 32)

BENCHMARK

CCCO BM #3321 SET TAG IN TOP OF CURB, CATCH BASIN
SOUTH SIDE OF GLORIA TERRACE AT BROOKWOOD DR
EL=307.39 (NGVD 29)

GENERAL

ASSESSORS PARCEL NO(s): 166-240-039
PROJECT ADDRESS: PARCEL C GLORIA TERRACE,
CONTRA COSTA COUNTY, CA
TOTAL AREA: 1.04 ACRES
NET DEVELOPABLE AREA: 0.91 ACRES
EXISTING USE: SINGLE FAMILY RESIDENCE
EXISTING ZONING: R-20 (SINGLE FAMILY RESIDENTIAL)
PROPOSED USE: SINGLE FAMILY RESIDENTIAL
PROPOSED ZONING: R-20 (SINGLE FAMILY RESIDENTIAL)
NUMBER OF UNITS: 2 LOTS
DENSITY: 1.9 UNITS/AC
FEMA FLOOD DESIGNATION: PORTION OF LOT IS ZONE "X" (FIRM PANEL 0280G,
060025 DATED 03-21-17)

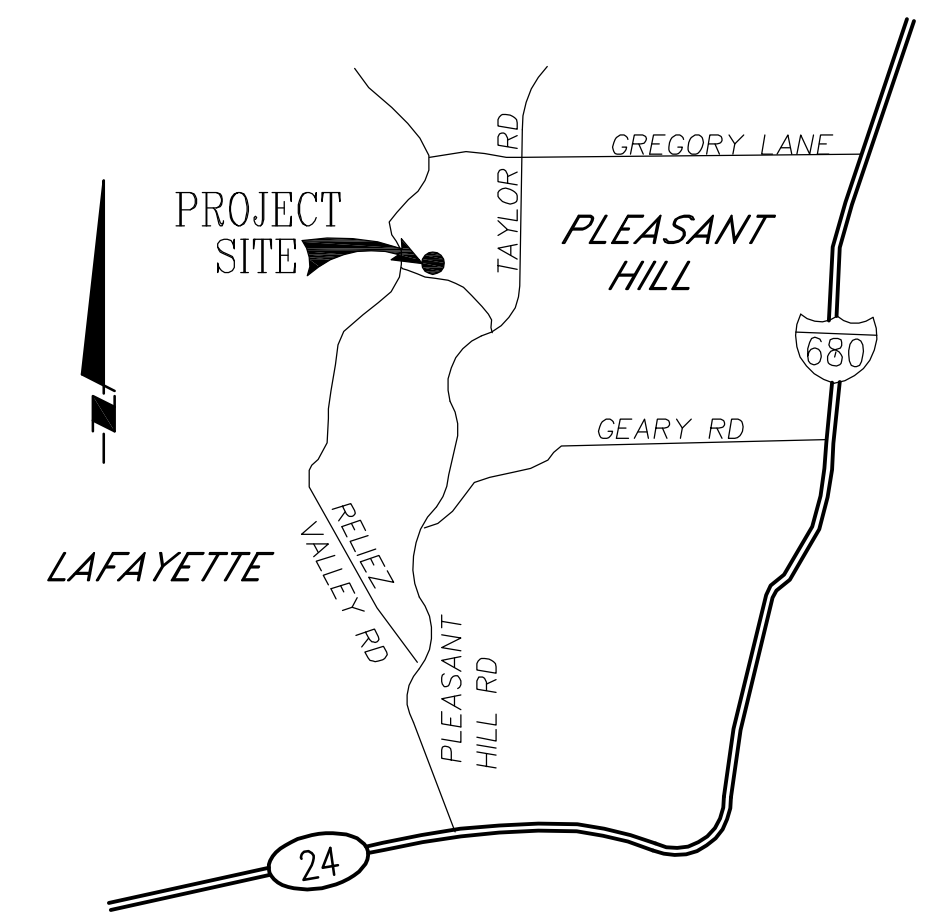
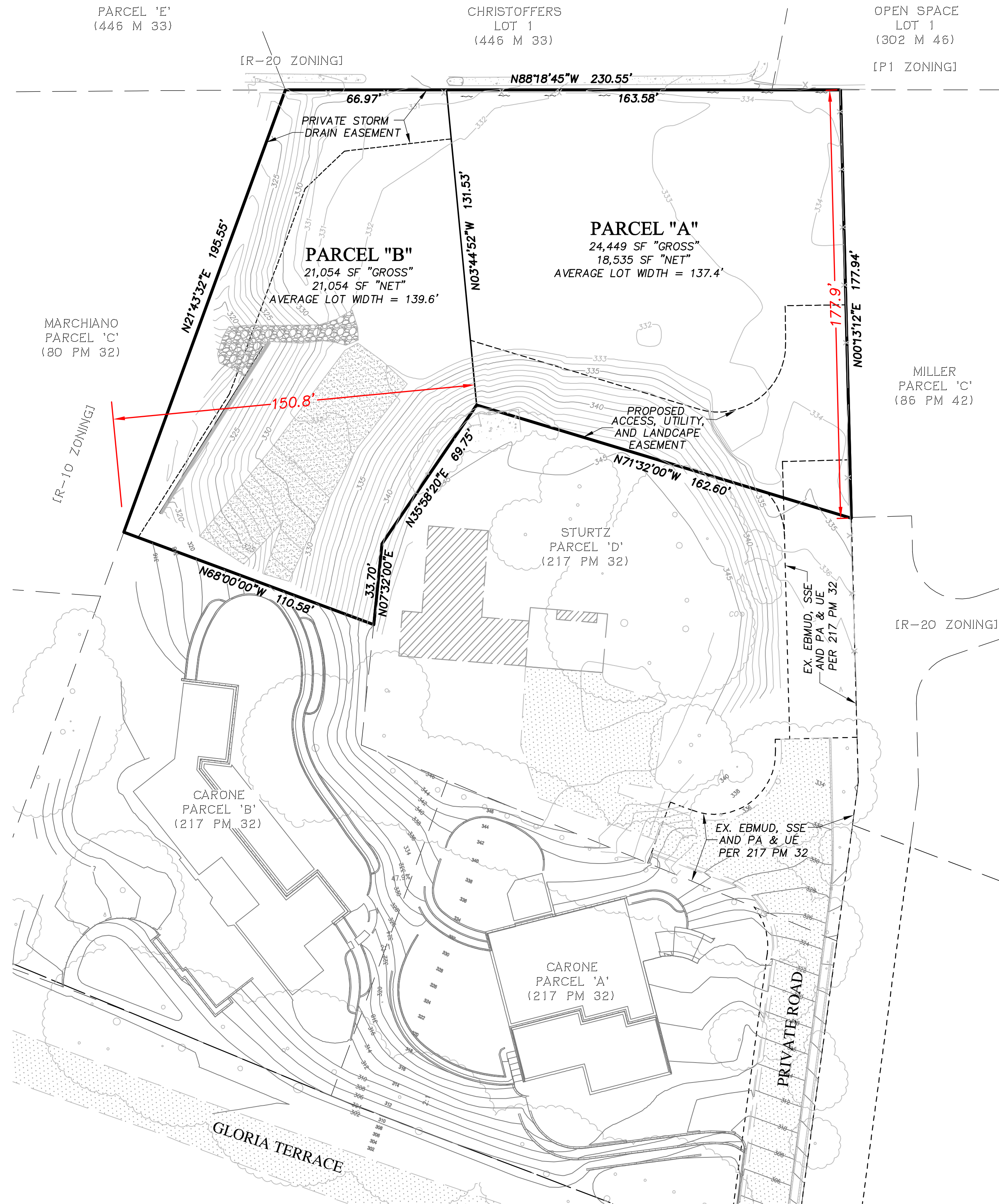
FACILITIES

WATER: EBMUD
SEWER: CENTRAL SANITARY DIST
STORM DRAIN: CONTRA COSTA COUNTY
FIRE: CCCFPD
GAS & ELECTRIC: PACIFIC GAS & ELECTRIC
TELEPHONE: AT&T
CABLE: COMCAST

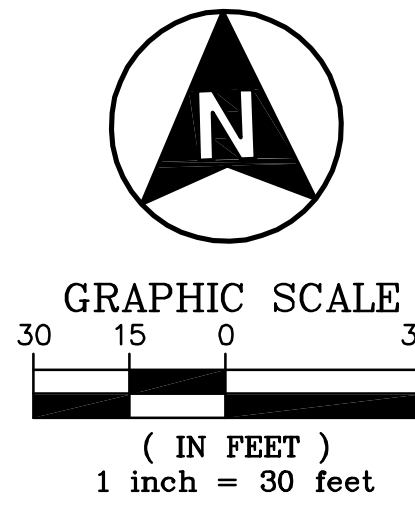
AVERAGE LOT WIDTH CALCULATION

PARCEL 'A'
LOT AREA=24,449 SF
LOT DEPTH=177.9'
24,449/177.9=137.4'

PARCEL 'B'
LOT AREA=21,054 SF
LOT DEPTH=150.8'
21,054/150.8=139.6'



VICINITY MAP
NOT TO SCALE



LEGEND

- LOT BOUNDARY
- RIGHT-OF-WAY
- ADJACENT PROPERTY LINE
- PROPOSED HOUSE
- EXISTING HOUSE
- EXISTING ASPHALT
- NEW PAVERS
- 5% FINISHED GRADE SLOPE
- DIRECTION OF DRAINAGE FLOW
- EX. TREE
- SEWER LINE
- WATER LINE
- 4" AREA DRAIN AND DRAIN PIPE
- JOINT TRENCH
- CONTOURS

ABBREVIATIONS

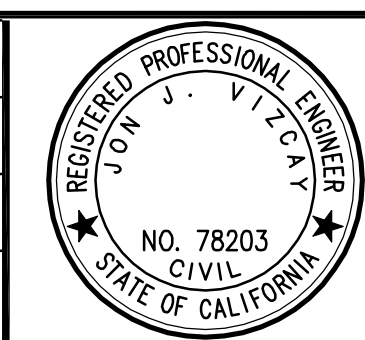
- AB - AGGREGATE BASE
- AC - ASPHALT CONCRETE
- BOC - BACK OF CURB
- BW - BOTTOM OF WALL
- CB - CATCH BASIN
- CCCO - CONTRA COSTA COUNTY
- CL - CLASS
- C - CENTERLINE
- DET - DETAIL
- EX - EXISTING
- FG - FINISH GRADE
- FH - FIRE HYDRANT
- GB - GRADE BREAK
- GF - GUTTER FLOWLINE
- HP - HIGH POINT
- P - PAD ELEVATION
- PI - POINT OF INTERSECTION
- PSDE - PRIVATE STORM DRAIN EASEMENT
- PUE - PUBLIC UTILITY EASEMENT
- R/W - RIGHT OF WAY
- SD - STORM DRAIN
- SF - SQUARE FEET
- STD - SANITARY SEWER
- STD - STANDARD
- TW - TOP OF WALL
- TYP - TYPICAL
- W - WATER

SHEET INDEX

SHEET No.	DESCRIPTION
1	TITLE SHEET
2	TOPOGRAPHIC SURVEY & DEMOLITION PLAN
3	SECTIONS & DETAILS
4	PRELIMINARY GRADING, DRAINAGE & UTILITY PLAN
5	PRELIMINARY C.3 STORM WATER CONTROL PLAN

REVISIONS	NO.	BY	DATE

DESIGN: JV
DRAWN: STAFF
CHECKED: JV
PROJECT #: 23004



817 Arnold Drive, Ste 50
Martinez, CA 94553
Ph: (925) 476-8499
www.apexce.net

GLORIA KNOLL

TENTATIVE MAP
TITLE SHEET

MS 24-0009

CONTRA COSTA COUNTY, CA



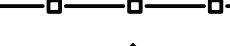

SHEET
1 OF 5

DATE
10-09-2024

TOPOGRAPHIC SURVEY & DEMOLITION PLAN "GLORIA KNOLL"

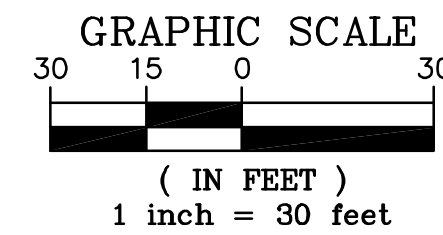
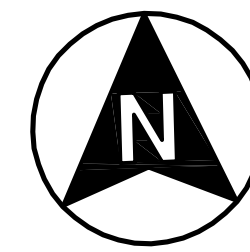
MS 24-0009
COUNTY OF CONTRA COSTA
STATE OF CALIFORNIA

LEGEND

-  EX. ASPHALT DRIVEWAY TO SERVE AS CONSTRUCTION ENTRANCE
-  FIBER ROLL WATTLES
-  SILT FENCE
-  INLET PROTECTION

DEMOLITION KEY LEGEND

- ① EXISTING GRAVEL AREA TO BE REMOVED
- ② PORTION OF EXISTING ROCK RIP RAP TO BE REMOVED, AS NEEDED



SEISMIC HAZARD NOTE:

ENTIRE PROPERTY IS LOCATED WITHIN AN AREA SUBJECT TO LIQUIFACTION

FIRE HAZARD NOTE:

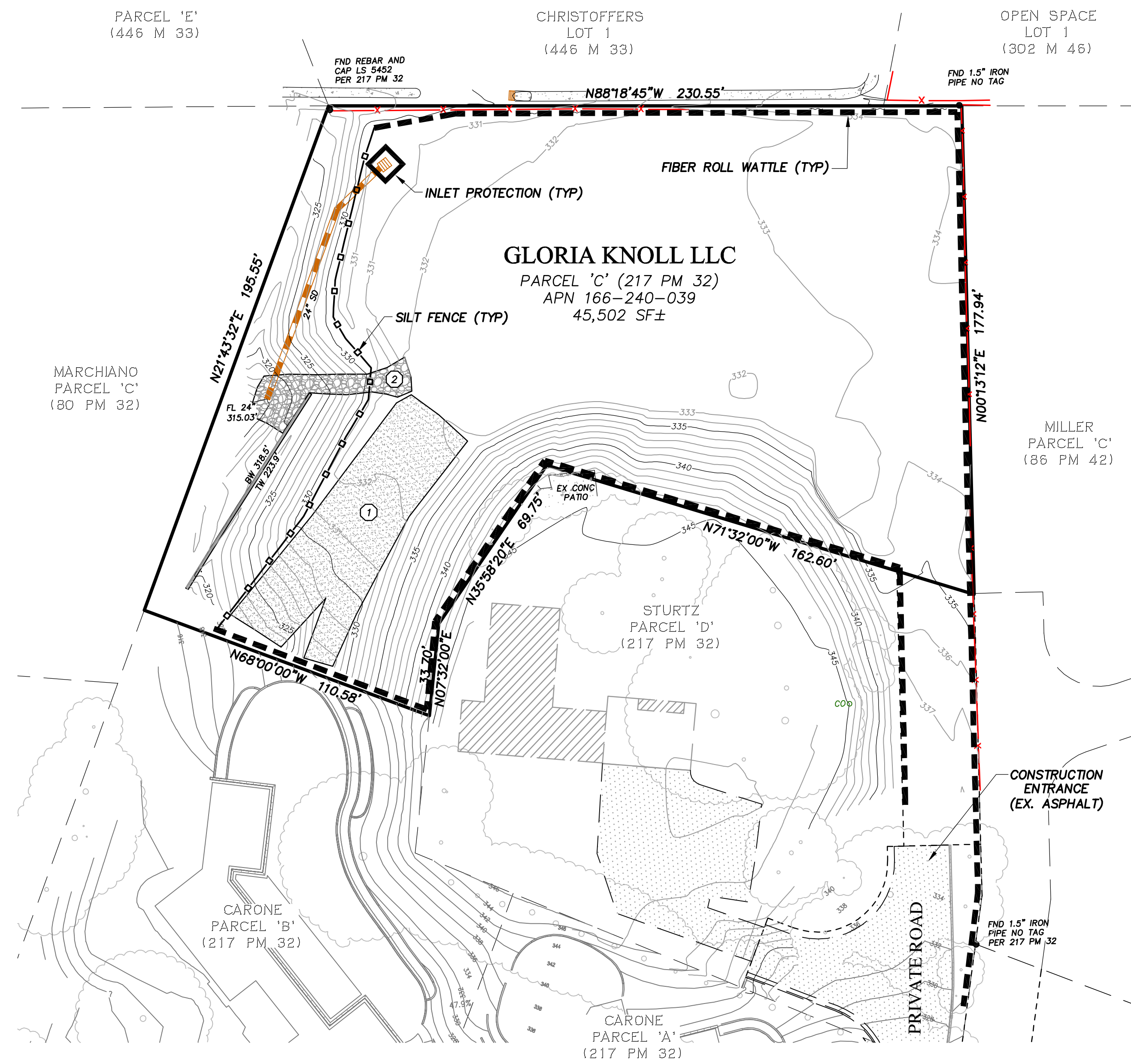
PROPERTY IS LOCATED WITHIN THE "HIGH" FIRE HAZARD SEVERITY ZONE PER THE FIRE HAZARD SEVERITY ZONES IN STATE RESPONSIBILITY AREA (SRA) CAL FIRE GIS MAPPING WEBSITE

TREE PRESERVATION NOTES

- ONLY TREES 6.5" OR LARGER ARE INCLUDED IN ARBORIST REPORT AND ARE NUMBERED ON THIS PLAN.
- THE CONSTRUCTION SUPERINTENDENT SHALL MEET WITH THE PROJECT ARBORIST BEFORE BEGINNING WORK TO DISCUSS WORK PROCEDURES AND TREE PROTECTION.
- TREE PROTECTION FENCING SHALL BE INSTALLED BEFORE ISSUANCE OF THE SITE DEVELOPMENT PERMIT. FENCING SHALL BE LOCATED OUTSIDE THE LIMITS OF DEMOLITION, GRADING AND PROPOSED WORK. FINAL LOCATION WILL BE SET ON-SITE PRIOR TO CONSTRUCTION, AS ACCEPTABLE TO THE PROJECT ARBORIST FOR BOTH ROOT PROTECTION AND THE GENERAL CONTRACTOR FOR ACCESS. PLACEMENT WILL BE ADJUSTED ACCORDING TO ACCESS REQUIREMENTS AT THE TIME OF DEMOLITION AND CONSTRUCTION AFTER CONVERSATION WITH THE CONTRACTOR. AT NO TIME SHALL THE FENCING BE MOVED OR ALTERED WITHOUT THE PRIOR APPROVAL OF THE PROJECT ARBORIST.
- FENCE TREES TO ENCLOSE THE TREE PROTECTION ZONE. FENCE SHALL BE A MINIMUM 6' CHAINLINK FENCE SECURELY FASTENED TO STEEL POSTS FIRMLY DRIVEN INTO THE GROUND WITH SPACING NOT TO EXCEED 8'. ATTACH PLASTICIZED SIGNS ON EVERY SECTION OF FENCING READING: "THIS FENCE TO BE MOVED ONLY WITH PERMISSION OF THE PROJECT ARBORIST". FENCES ARE TO REMAIN UNTIL ALL GRADING AND CONSTRUCTION IS COMPLETED, AS POSSIBLE.
- NO GRADING, CONSTRUCTION, DEMOLITION OR OTHER WORK SHALL OCCUR WITHIN THE TREE PROTECTION ZONE WITHOUT BEING MONITORED BY THE PROJECT ARBORIST.
- ANY ROOT PRUNING REQUIRED FOR CONSTRUCTION PURPOSES SHALL RECEIVE THE PRIOR APPROVAL OF AND BE SUPERVISED BY THE PROJECT ARBORIST.
- IF INJURY SHOULD OCCUR TO ANY TREE DURING CONSTRUCTION IT SHOULD BE EVALUATED AS SOON AS POSSIBLE BY THE PROJECT ARBORIST SO THAT APPROPRIATE TREATMENTS CAN BE APPLIED.
- NO EXCESS SOIL, CHEMICALS, DEBRIS, EQUIPMENT OR OTHER MATERIALS SHALL BE DUMPED OR STORED WITHIN THE TREE PROTECTION ZONE.
- ANY ADDITIONAL TREE PRUNING NEEDED FOR CLEARANCE DURING CONSTRUCTION MUST BE PERFORMED BY A CERTIFIED ARBORIST AND NOT BY CONSTRUCTION PERSONNEL.
- AS TREES WITHDRAW WATER FROM THE SOIL, EXPANSIVE SOILS MAY SHRINK WITHIN THE ROOT AREA. THEREFORE, FOUNDATIONS, FOOTINGS AND PAVEMENTS ON EXPANSIVE SOILS NEAR TREES SHOULD BE DESIGNED TO WITHSTAND DIFFERENTIAL PLACEMENT.
- EXCAVATION WITHIN THE DRIPLINE OF ANY TREE TO BE PRESERVED SHALL BE DONE USING HAND TOOLS.
- SUPPLEMENTAL IRRIGATION SHALL BE APPLIED AS DETERMINED BY THE PROJECT ARBORIST.

GENERAL DEMOLITION NOTES:

- A DEMOLITION PERMIT IS REQUIRED PRIOR TO COMMENCEMENT OF DEMOLITION. COPIES OF THE PERMITS ARE REQUIRED TO BE ON SITE AT ALL TIMES.
- NOISE-PRODUCING CONSTRUCTION ACTIVITY (INCLUDING PLAYING OF RADIO OR MUSIC) AND GRADING OPERATION SHALL BE LIMITED TO WEEKDAYS (MONDAY THROUGH FRIDAY) EXCEPT CITY HOLIDAYS AND FROM THE HOURS OF 7:00AM TO 5:00PM, SATURDAY AND SUNDAY; NONE, AND SHALL BE PROHIBITED ON STATE AND FEDERAL HOLIDAYS. ALL EQUIPMENT SHALL BE ADEQUATELY MUFFLED AND MAINTAINED. NO CHANGES SHALL BE ALLOWED WITHOUT PRIOR WRITTEN CONSENT OF THE COUNTY. ALL REQUESTS FOR CHANGES MUST BE MADE A MINIMUM OF 72 HOURS PRIOR TO THE REQUEST FOR CHANGE.
- THE CONSTRUCTION CONTRACTOR AGREES, THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL AND CITY HARMLESS FROM ANY AND ALL LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
- THE CONTRACTOR SHALL PROVIDE EMERGENCY TELEPHONE NUMBERS FOR PUBLIC WORKS, AMBULANCE, POLICE, AND FIRE DEPARTMENTS AT THE JOB SITE.
- THE CONTRACTOR SHALL CONTROL DUST BY WATERING EXPOSED SURFACES AS NEEDED. INCREASED WATERING SHALL BE REQUIRED WHEN WIND SPEEDS EXCEED 10 MPH.
- THE PROJECT APPLICANT SHALL SWEEP STREETS DAILY, OR AS NECESSARY, WITH WATER SWEEPERS IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION DRIVES TO PREVENT THE TRACKING OF SOIL, DUST, MUD, OR CONSTRUCTION DEBRIS ON PUBLIC STREETS.
- MUD TRACKED ONTO STREETS OR ADJACENT PROPERTIES SHALL BE REMOVED IMMEDIATELY, STREET SHALL BE SWEEP WITH A POWER SWEEPER (NOT PRESSURE WASHED) AS DIRECTED BY THE COUNTY.
- ALL WATER, SEWER, ELECTRIC, GAS, CABLE & PHONE SERVICES/LATERALS SHALL BE REMOVED BACK TO THE APPROPRIATE UTILITY MAIN.
- SHOULD THERE BE ANY WATER WELLS ON THIS PROPERTY, THE CONTRACTOR SHALL OBTAIN A WELL PERMIT FROM THE COUNTY DEPARTMENT OF HEALTH SERVICES, ENVIRONMENTAL HEALTH DIVISION, PRIOR TO ANY GRADING IN THE IMMEDIATE VICINITY OF A WELL AND PRIOR TO REMOVAL OF A WELL.
- SHOULD THERE BE A SEPTIC SYSTEM ON THIS PROPERTY, THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE COUNTY DEPARTMENT OF HEALTH SERVICES, ENVIRONMENTAL HEALTH DIVISION FOR REMOVAL, PRIOR TO ANY GRADING IN THE IMMEDIATE VICINITY OF A SEPTIC TANK OR LEACH FIELD AND PRIOR TO REMOVAL OF A SEPTIC SYSTEM.



REVISIONS	NO.	BY	DATE

DESIGN: JV
DRAWN: STAFF
CHECKED: JV
PROJECT #: 23004



APEX
CIVIL ENGINEERING & LAND SURVEYING

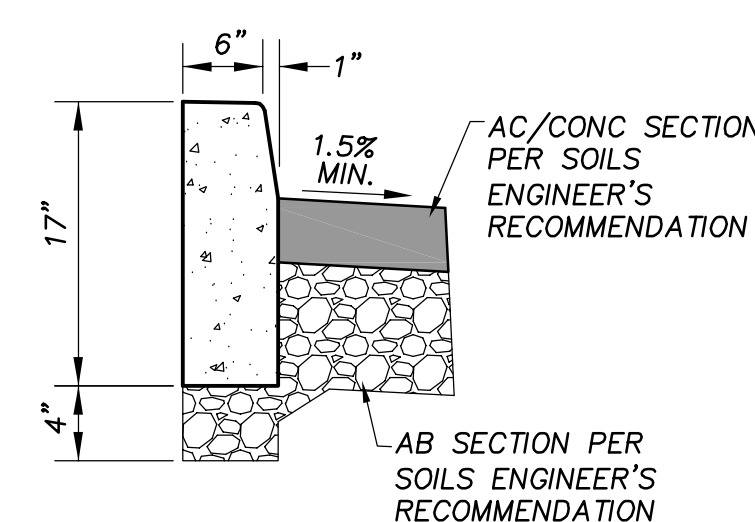
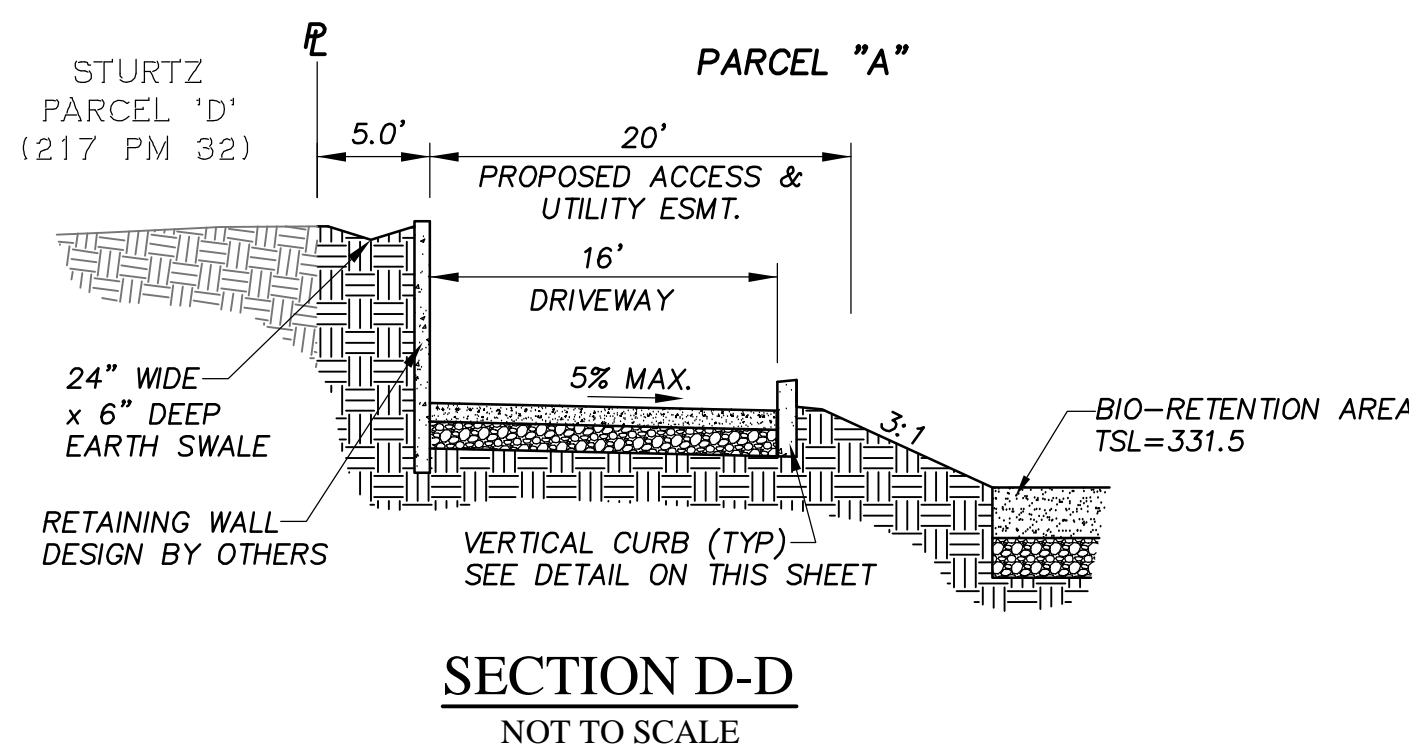
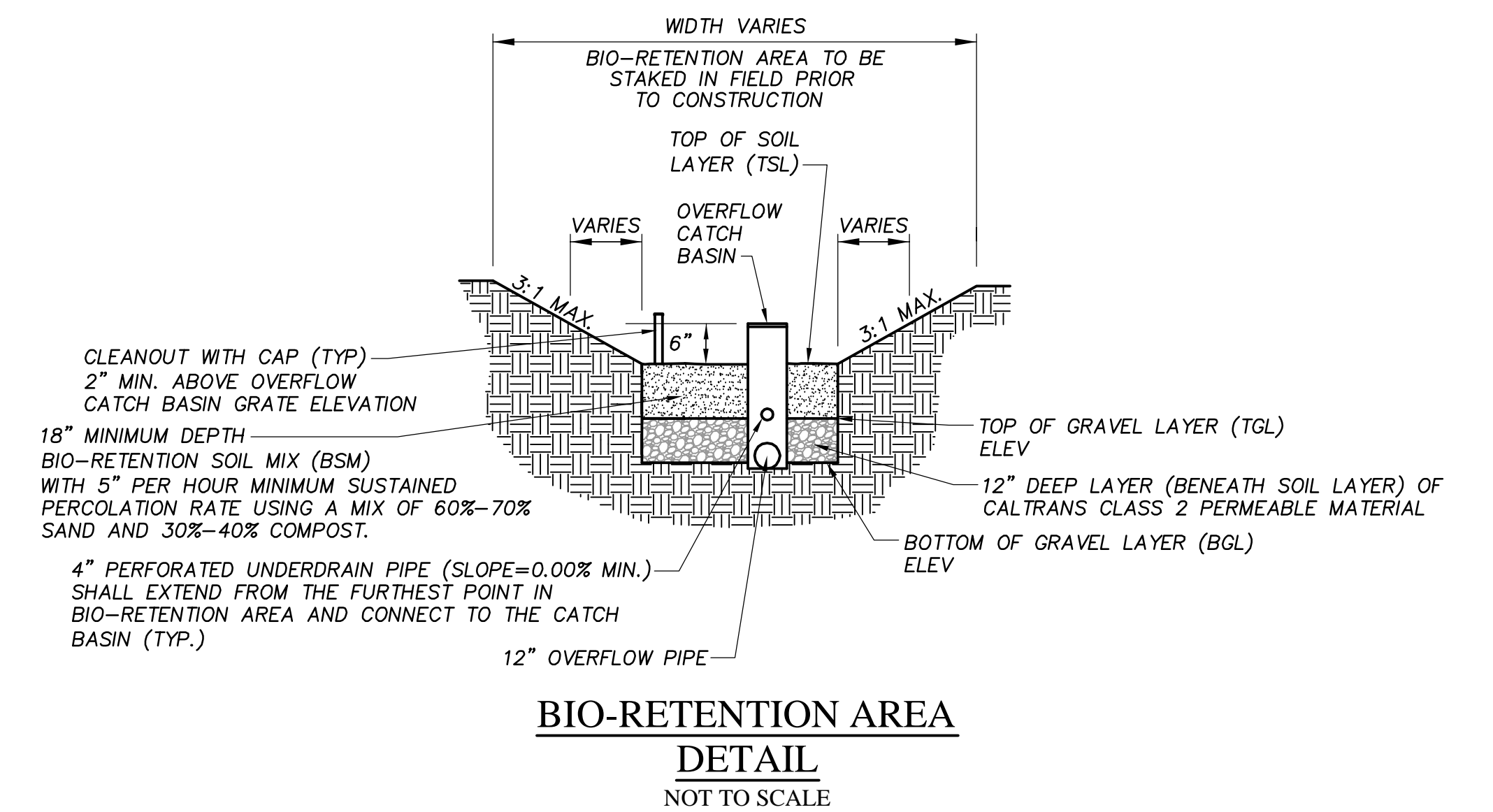
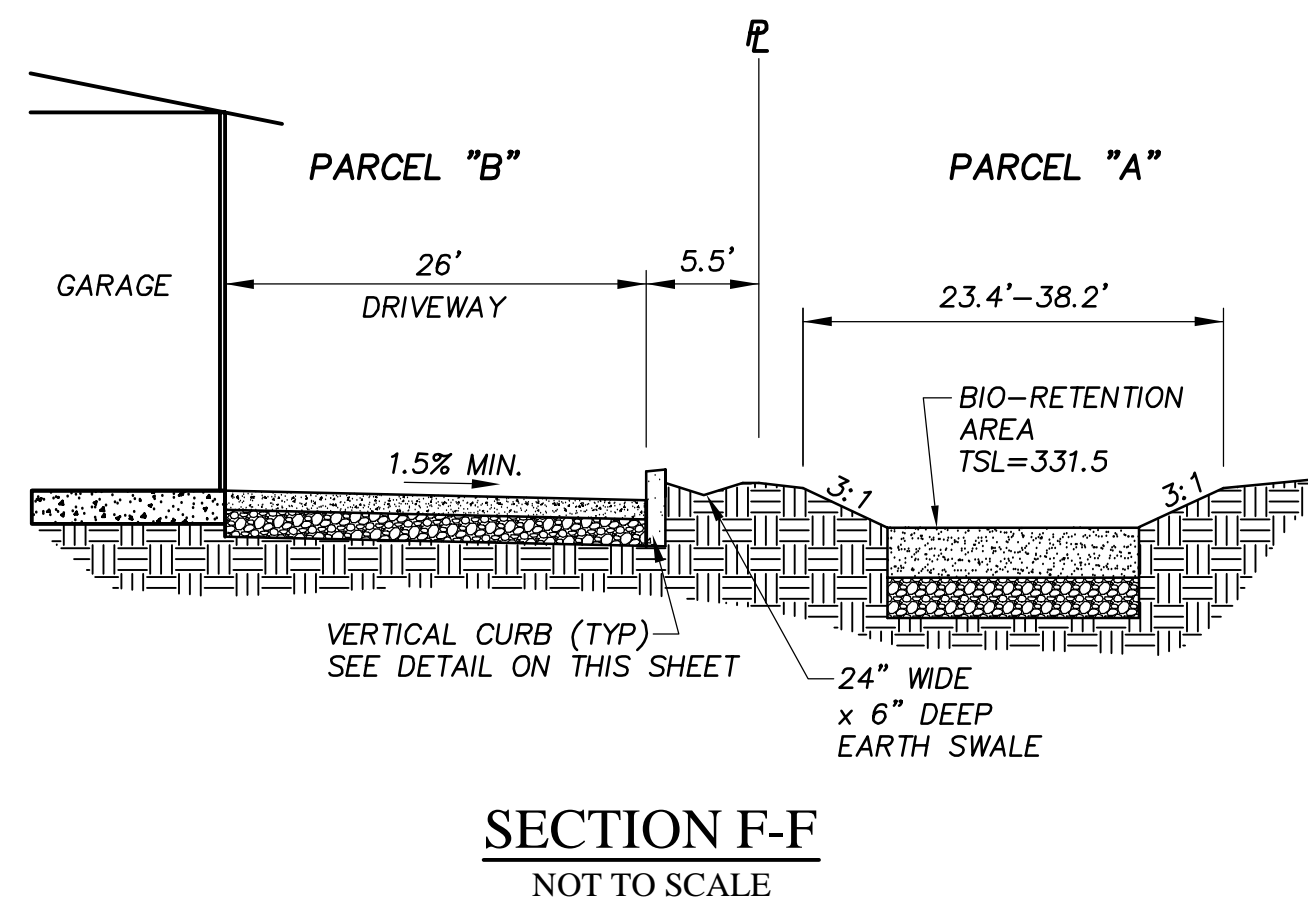
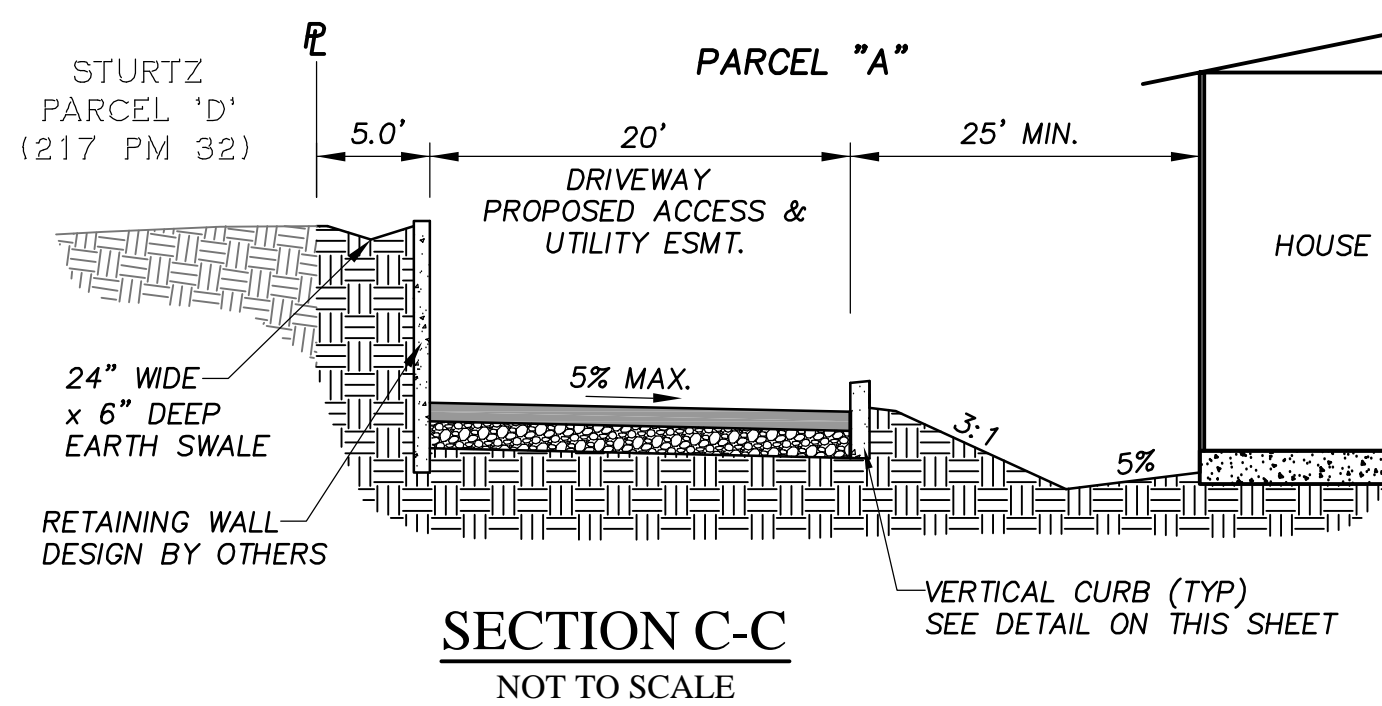
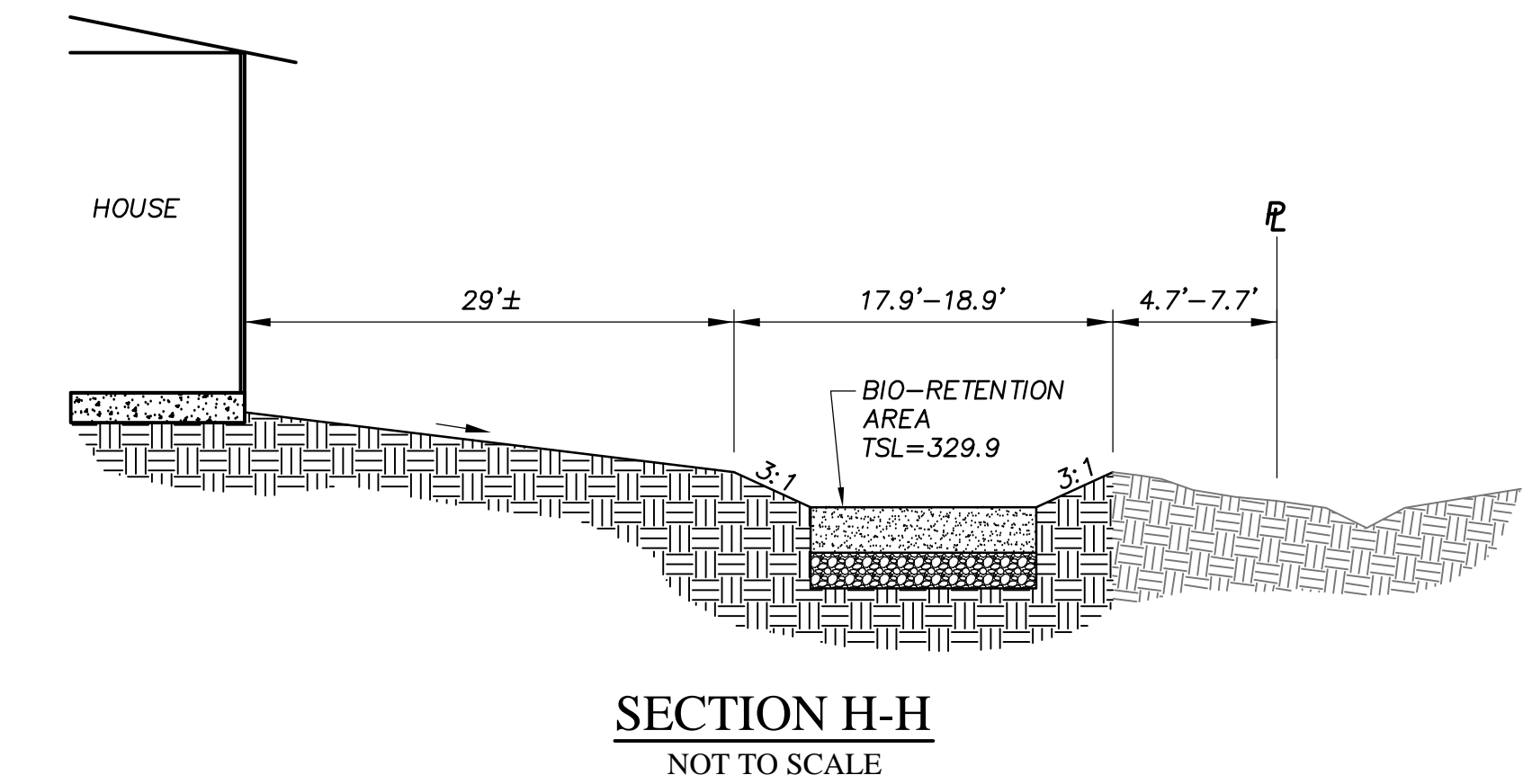
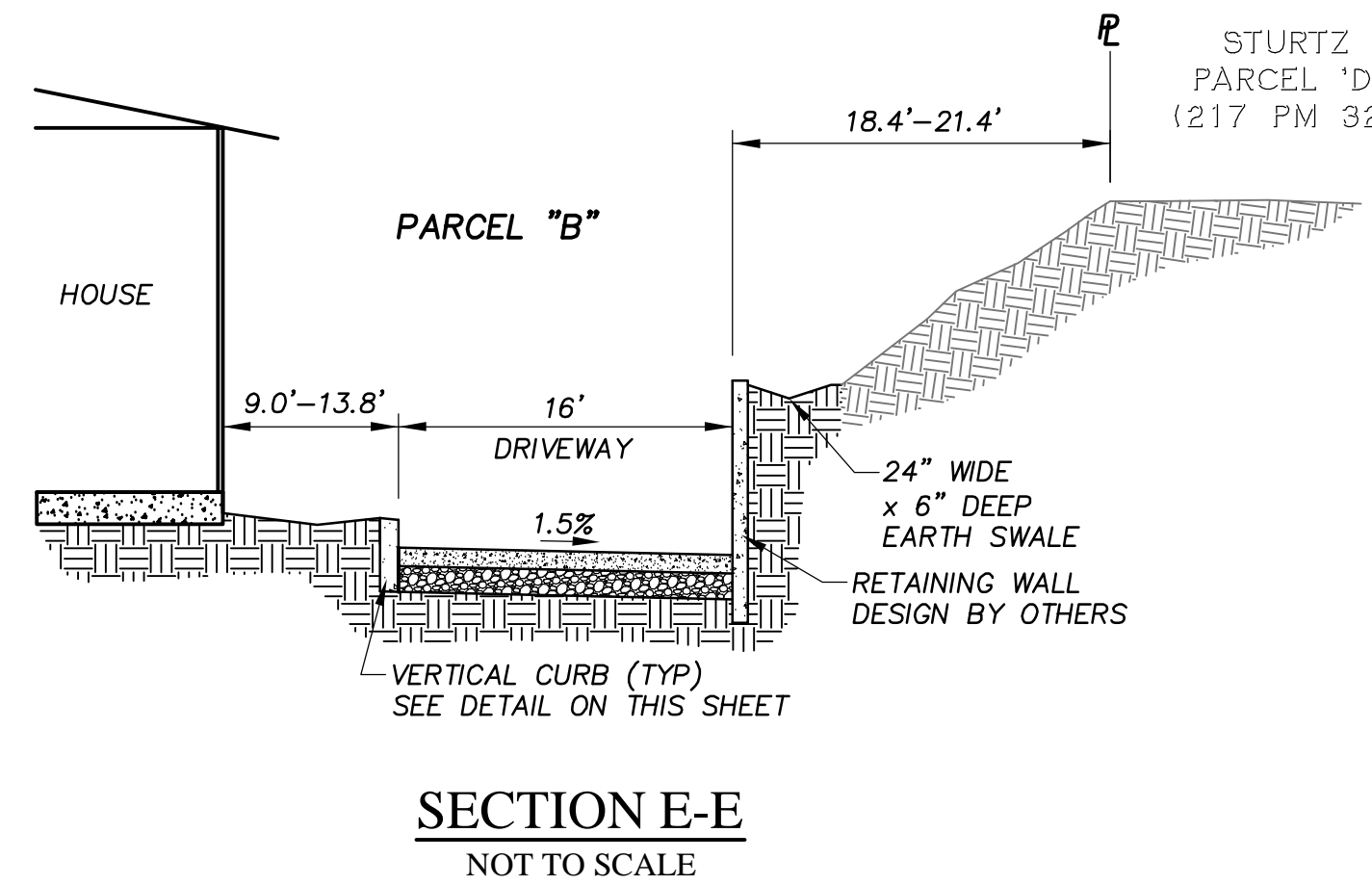
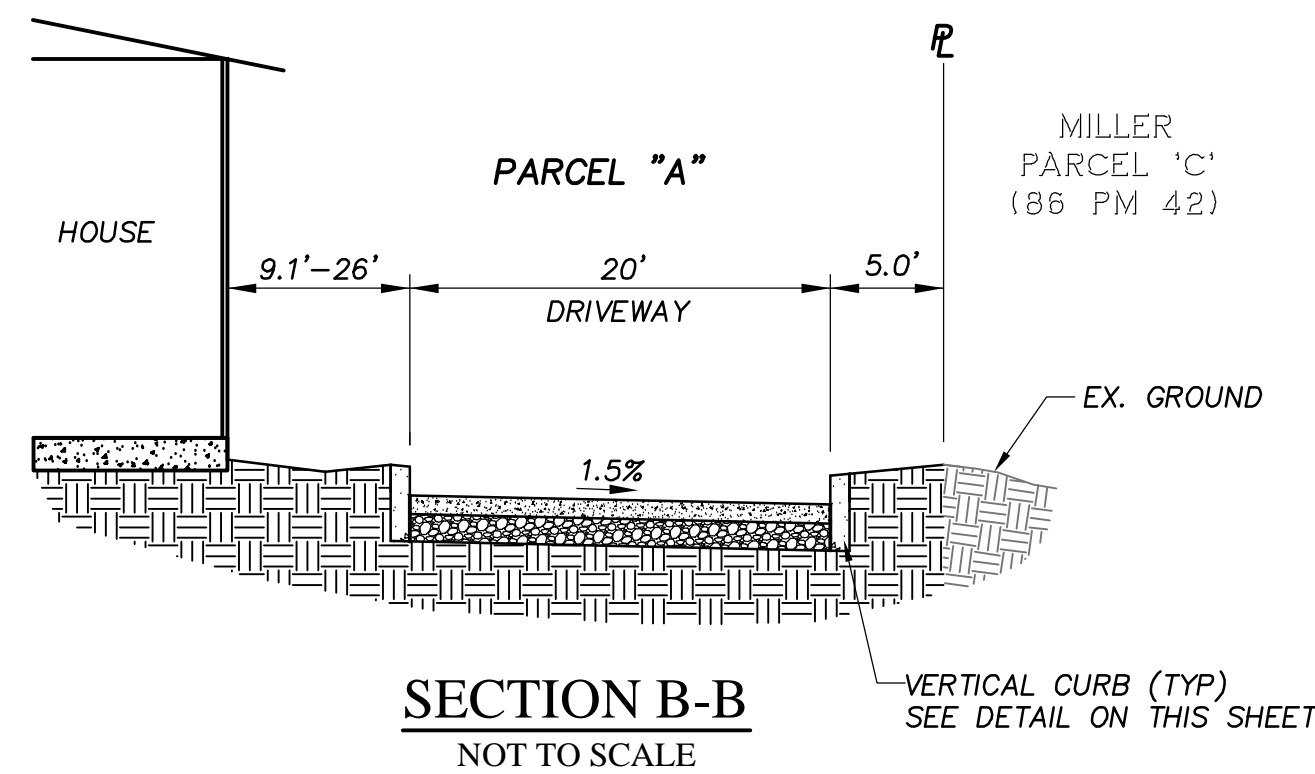
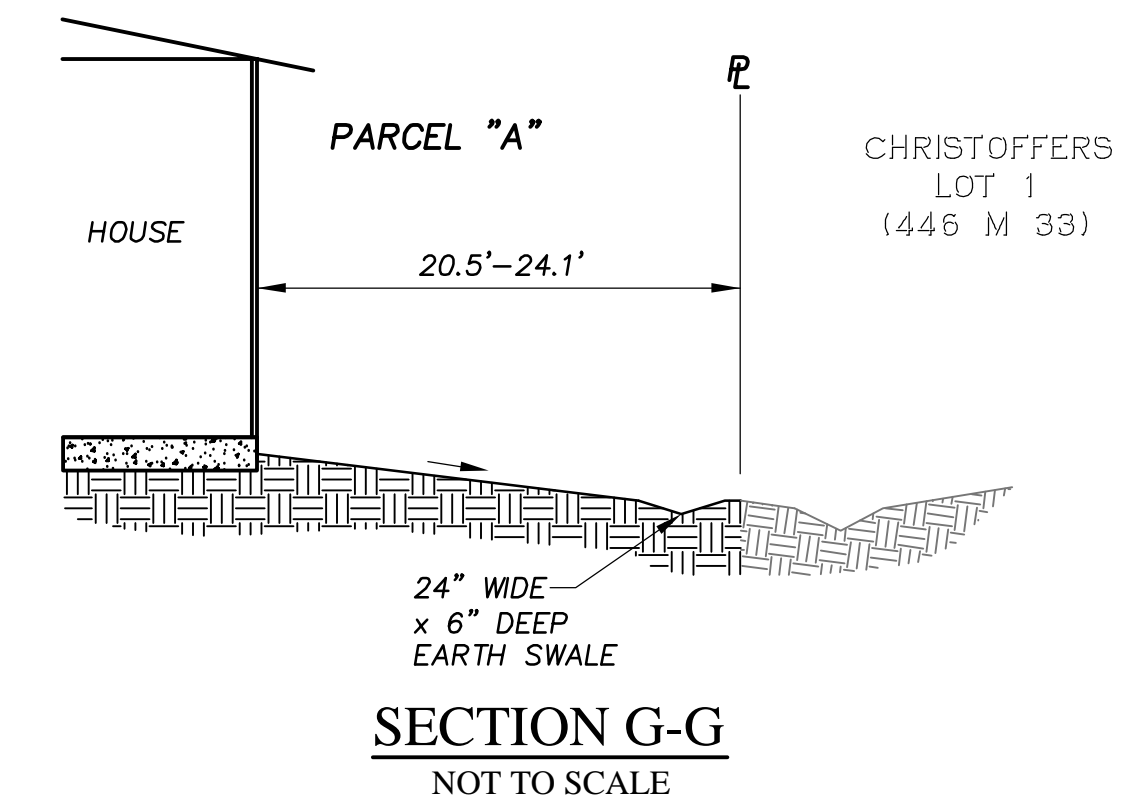
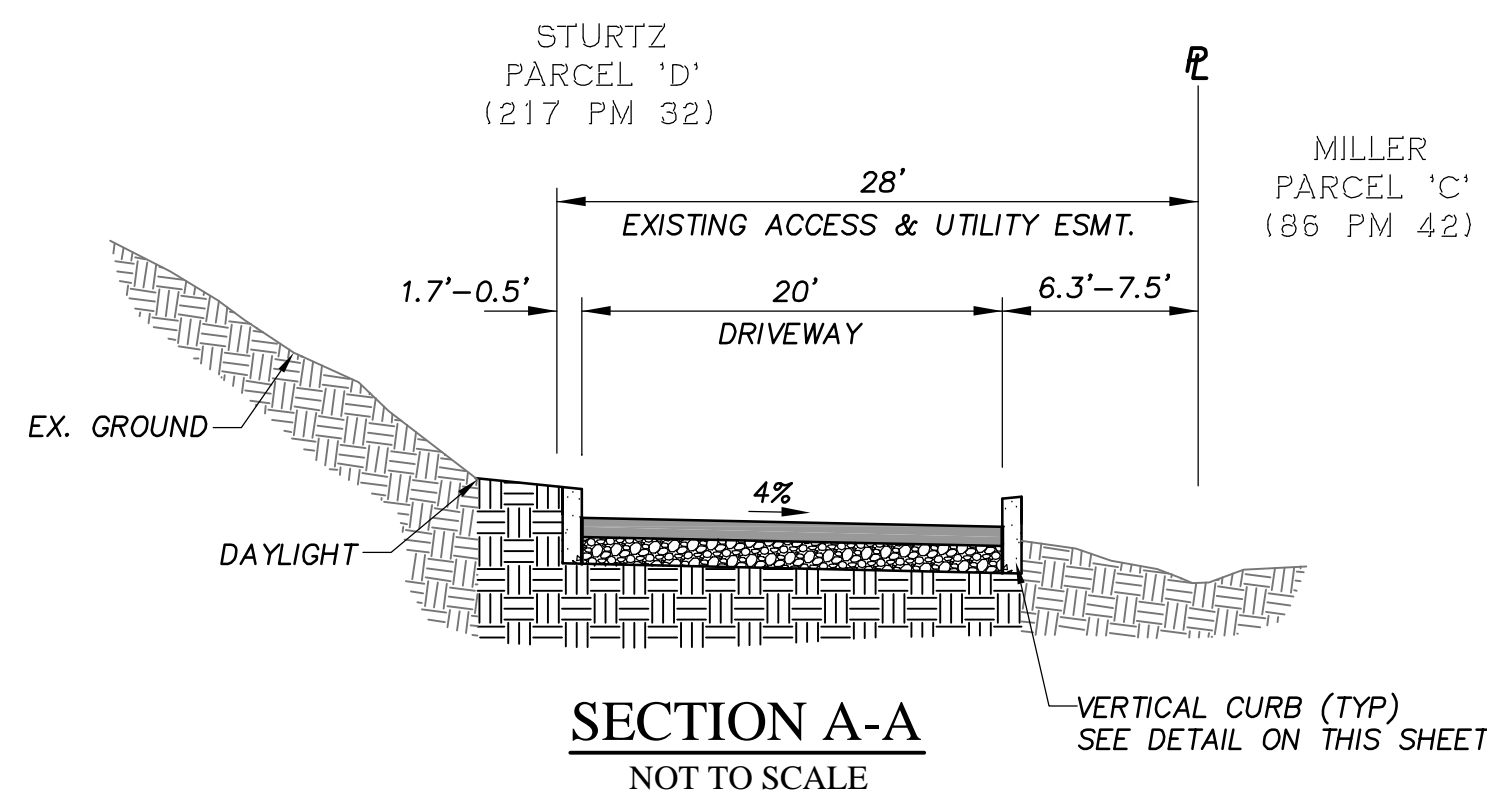
817 Arnold Drive, Ste 50
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TENTATIVE MAP
TOPOGRAPHIC SURVEY & DEMOLITION PLAN
GLORIA KNOLL MS 24-0009 CONTRA COSTA COUNTY, CA

SHEET 2 OF 5
DATE 10-09-2024

SECTIONS & DETAILS "GLORIA KNOLL"

MS 24-0009
COUNTY OF CONTRA COSTA
STATE OF CALIFORNIA



REVISIONS	NO.	BY	DATE

DESIGN: JV
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PROJECT #: 23004



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GLORIA KNOLL

TENTATIVE MAP
SECTIONS & DETAILS

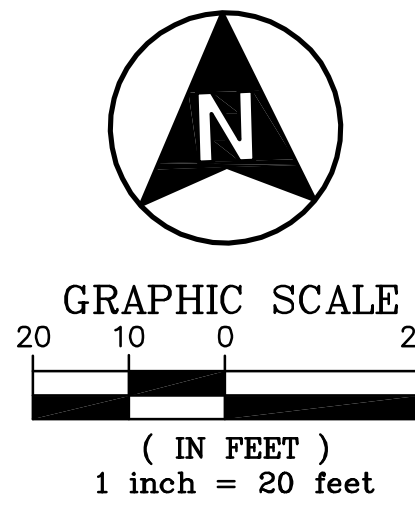
MS 24-0009

CONTRA COSTA COUNTY, CA

SHEET 3 OF 5
DATE 10-09-2024

PRELIMINARY GRADING, DRAINAGE & UTILITY PLAN "GLORIA KNOLL"

MS 24-0009
COUNTY OF CONTRA COSTA
STATE OF CALIFORNIA



SECTIONS NOTE:
REFER TO SHEET 3
FOR ALL SECTIONS
AND DETAILS

KEY LEGEND

- 1 EXISTING PAVEMENT TO REMAIN
- 2 EXISTING FENCE TO REMAIN
- 3 MATCH EX. ASPHALT
- 4 WIDEN EXISTING DRIVEWAY
- 5 ASPHALT DRIVEWAY. SECTION PER SOILS ENGINEER'S RECOMMENDATIONS
- 6 VERTICAL CURB PER DETAIL ON SHEET 3
- 7 FIRE DISTRICT TURN-AROUND DELINEATION
- 8 NEW HOUSE (TYP)
- 9 CONCRETE DRIVEWAY (6" CONC/5"AB)
- 10 CONCRETE FLATWORK (4" CONC/4"AB)
- 11 BEGIN/END CONCRETE RETAINING WALL
- 12 CONCRETE RETAINING WALL (TYP). DESIGN BY OTHERS
- 13 BIO-RETENTION AREA
- 14 DAYLIGHT LINE (TYP)
- 15 EXISTING 24" STORM DRAIN LINE TO REMAIN
- 16 EXISTING INLET TO REMAIN
- 17 12" HDPE STORM DRAIN LINE @ 0.5% MIN. (TYP)
- 18 18"x18" STORM DRAIN INLET (CHRISTY OR EQUAL)
- 19 OVERFLOW INLET. TYPE "J" INLET PER CCCO STD DET CD29
- 20 4" PVC SDR-35 DRAIN PIPE (OR EQUAL) @ 0.5% MIN. (TYP)
- 21 4" AREA DRAIN (NDS OR EQUAL)
- 22 6" PVC SDR-35 DRAIN PIPE (OR EQUAL) @ 0.5% MIN. (TYP)
- 23 6" AREA DRAIN (NDS OR EQUAL)
- 24 EXISTING 6" WATER MAIN TO REMAIN
- 25 EXISTING FIRE HYDRANT TO REMAIN
- 26 CONNECT NEW SERVICE LATERAL TO EX. 6" WATER MAIN
- 27 WATER METER PER EBMUD
- 28 1.5" WATER SERVICE LATERAL PER EBMUD STANDARDS
- 29 EXISTING 8" SANITARY SEWER MAIN TO REMAIN
- 30 CONNECT NEW SERVICE LATERAL TO EX. 8" SS PER CCCSD STANDARDS
- 31 4" SANITARY SEWER LATERAL PER CCCSD STANDARDS
- 32 4" SANITARY SEWER CLEANOUT PER CCCSD STANDARDS

SD SUMMARY

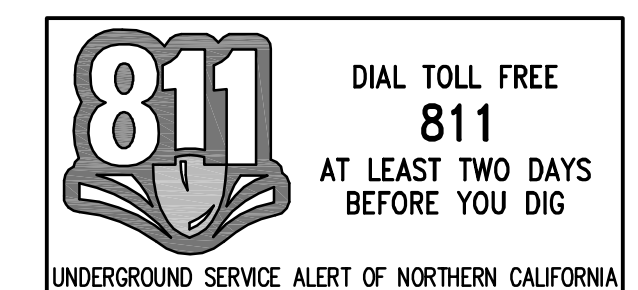
STRUCTURE #	GRATE/RIM ELEVATION	FLOW LINE ELEVATION
EX.CB	G 330.4	4" FL 328.32 IN 12" FL 320.80 THRU
CB-1	G 330.9	12" FL 326.90 THRU
CB-2	G 332.0	4" FL 329.92 IN 12" FL 328.00 OUT
CB-3	G 334.0	6" FL 258.14 THRU
CB-4	G 332.6	6" FL 258.14 THRU
CB-5	G 333.3	6" FL 258.14 THRU
OUTFALL-1	N/A	4"/6" FL 331.50 IN
OUTFALL-2	N/A	6" FL 329.90 IN
AD-1	G 334.5	6" FL 331.07 THRU
AD-2	G 334.5	6" FL 331.22 THRU
AD-3	G 334.5	6" FL 331.48 THRU
AD-4	G 334.5	6" FL 331.78 THRU
AD-5	G 334.5	4" FL 332.28 OUT
AD-6	G 334.5	4" FL 332.44 THRU
AD-7	G 334.5	4" FL 332.65 THRU
AD-8	G 334.5	4" FL 332.85 THRU
AD-9	G 334.5	4" FL 333.00 THRU
AD-10	G 332.5	6" FL 330.07 THRU
AD-11	G 333.5	6" FL 330.34 THRU
AD-12	G 333.0	6" FL 330.46 THRU
AD-13	G 333.0	6" FL 330.58 THRU
AD-14	G 333.0	6" FL 330.72 THRU
AD-15	G 332.0	4" FL 330.50 OUT

GRADING QUANTITIES

CUT	4,633 CU. YDS.
FILL	683 CU. YDS.

EXPORT: 3,950 CU. YDS.

TOTAL DISTURBED AREA: 0.89 ACRES (38,768 SF)



NOTE:

THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES DURING CONSTRUCTION.



REVISIONS	NO.	BY	DATE

DESIGN:	JV
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TENTATIVE MAP
PRELIMINARY GRADING, DRAINAGE & UTILITY PLAN
GLORIA KNOLL
MS 24-0009
CONTRA COSTA COUNTY, CA

SHEET	4 OF 5
DATE	10-09-2024

PRELIMINARY C.3 STORM WATER CONTROL PLAN "GLORIA KNOLL"

MS 24-0009
COUNTY OF CONTRA COSTA
STATE OF CALIFORNIA

ABBREVIATIONS

C - CONCRETE
L - LANDSCAPE AREA
OL - OFFSITE LANDSCAPE AREA
OP - OFFSITE ASPHALT/PAVEMENT
P - ASPHALT/PAVEMENT
PL - FLOW-THROUGH PLANTER
R - ROOFTOP
SR - SELF-RETAINING LANDSCAPE AREA
ST - SELF-TREATING LANDSCAPE AREA
UT - UNTREATED AREA

C.3 COMPLIANCE

REFER TO STORM WATER CONTROL PLAN REPORT FOR ADDITIONAL INFORMATION

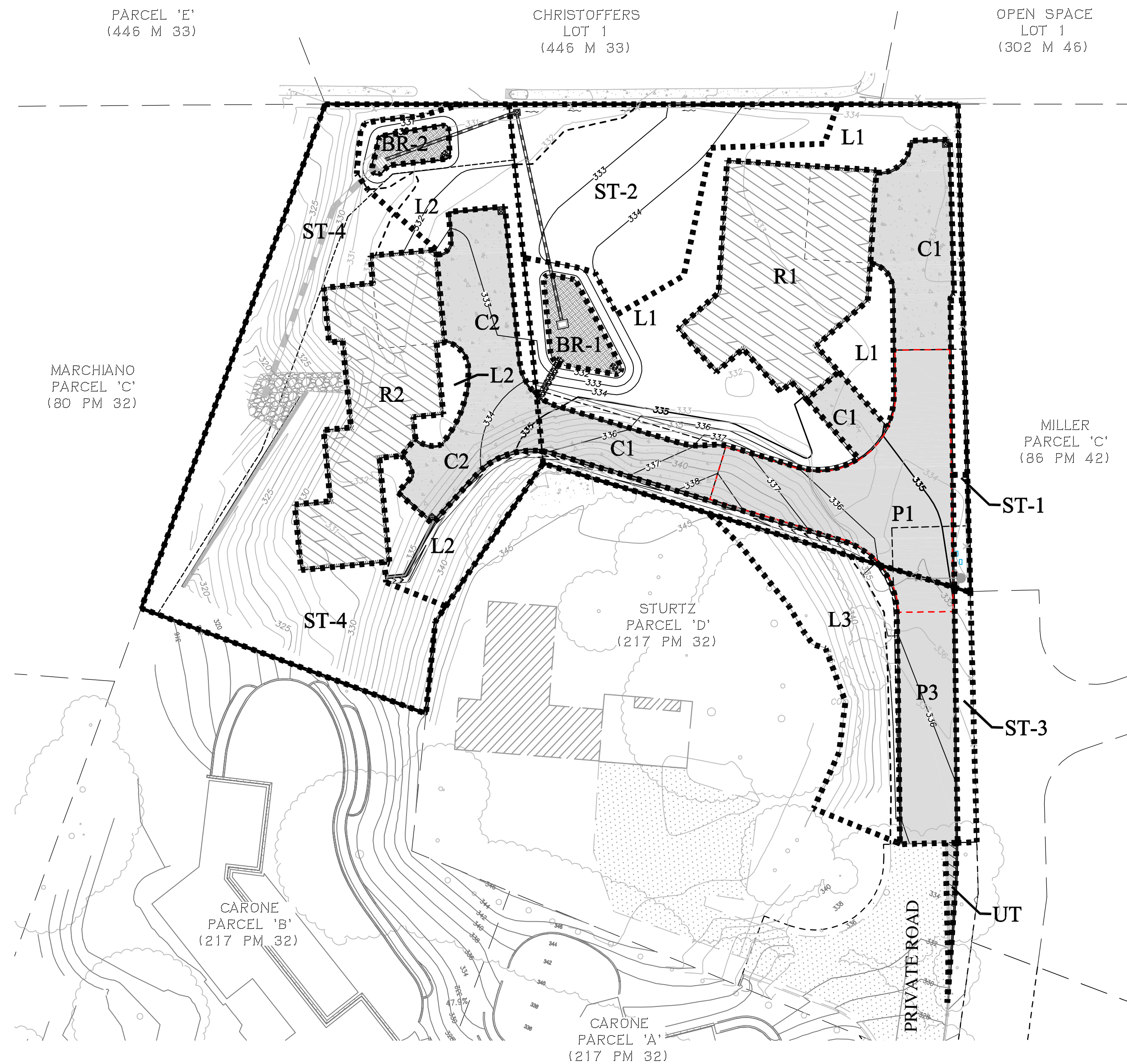
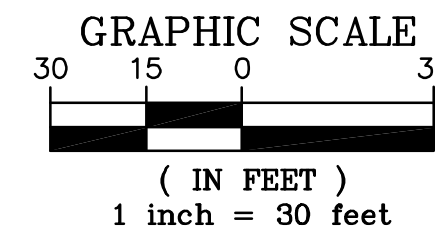
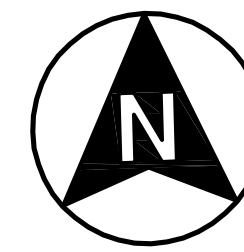
AREA BREAKDOWN

ON-SITE

PERVIOUS	
LANDSCAPING:	27,206 SF
BIO-RETENTION AREA:	942 SF
TOTAL AREA:	28,148 SF
IMPERVIOUS	
CONCRETE/ASPHALT:	9,308 SF
ROOFS:	8,046 SF
TOTAL AREA:	17,354 SF
TOTAL AREA:	45,502 SF

OFF-SITE

PERVIOUS	
LANDSCAPING:	3,744 SF
IMPERVIOUS	
CONCRETE/ASPHALT:	2,059 SF
TOTAL AREA:	5,803 SF



C.3 STORM WATER CONTROL LEGEND

DRAINAGE MANAGEMENT AREAS (DMA):

LANDSCAPE AREA	L
NEW IMPERVIOUS AREA (PAVEMENT/CONCRETE)	P / C
UNTREATED AREA (CANNOT BE TREATED)	UT
NEW IMPERVIOUS AREA (ROOFTOP)	R
BIO-RETENTION AREA	BR-1
BMP TRIBUTARY BOUNDARY:	

PROJECT DATA FORM

PROJECT NAME/NUMBER	"GLORIA KNOLL"
PROJECT LOCATION	PARCEL 'C' OF GLORIA TERRACE, LAFAYETTE, CA
NAME OF DEVELOPER	GLORIA KNOLL LLC
PROJECT TYPE AND DESCRIPTION	2 PARCELS (SINGLE FAMILY RESIDENTIAL)
PROJECT WATERSHED	GRAYSON CREEK WATERSHED
TOTAL PROJECT SITE AREA (ACRES)	1.04 ACRES (45,502 SF)
TOTAL AREA OF LAND DISTURBED (ACRES)	0.89 ACRES (38,641 SF)
TOTAL NEW IMPERVIOUS SURFACE AREA (SQ. FT.)	19,413 SF
TOTAL REPLACED IMPERVIOUS SURFACE AREA	0 SF
TOTAL PRE-PROJECT IMPERVIOUS SURFACE AREA	0 SF
TOTAL POST-PROJECT IMPERVIOUS SURFACE AREA	19,413 SF
RUNOFF REDUCTION MEASURES SELECTED	<input checked="" type="checkbox"/> 1. DISPERSE RUNOFF TO VEGETATED AREA <input type="checkbox"/> 2. PERVIOUS PAVEMENT (PAVERS) <input type="checkbox"/> 3. CISTERNS OR RAIN BARRELS <input checked="" type="checkbox"/> 4. BIO-RETENTION FACILITY OR FLOW-THROUGH PLANTER
50% RULE	N/A
PROJECT DENSITY	1.9 UNITS/AC
APPLICABLE SPECIAL PROJECT CATEGORIES	N/A
PERCENT LID AND NON LID TREATMENT	100% LID
HMP COMPLIANCE	N/A

REVISIONS

NO.	BY	DATE

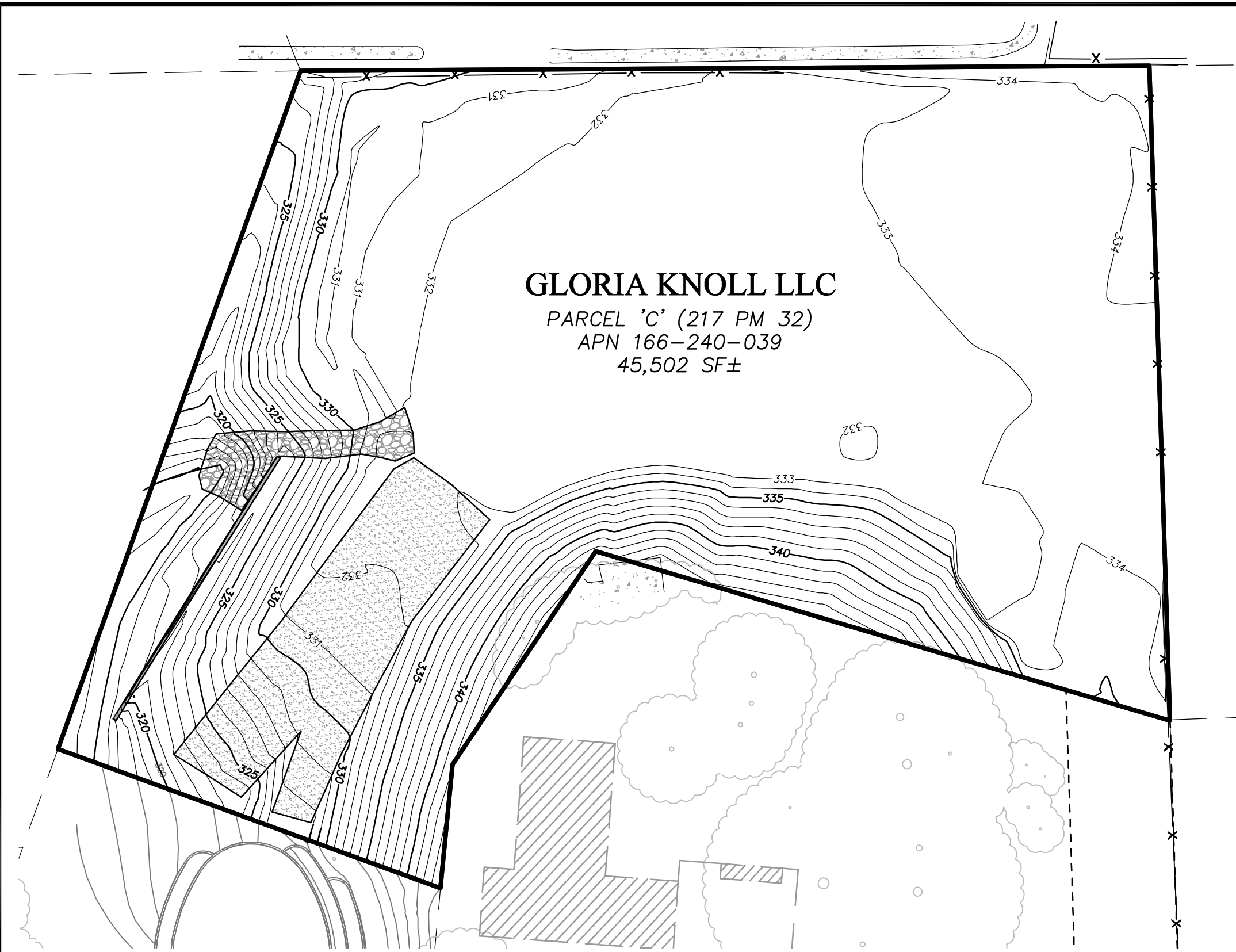
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TENTATIVE MAP
PRELIMINARY C.3 STORM WATER CONTROL PLAN
GLORIA KNOLL
MS 24-0009
CONTRA COSTA COUNTY, CA

SHEET
5 OF 5
DATE
10-09-2024



SLOPE CALCULATION

(A) TOTAL LOT AREA=45,503 (1.04 AC)
 (L) TOTAL LENGTH OF CONTOURS=7,491.29'
 (I) CONTOUR INTERVAL=1'

AVERAGE SLOPE=0.00229 (I)(L)÷A

AVERAGE SLOPE = 0.00229(7491.29)÷1.04

AVERAGE SLOPE = 17.15÷1.04

AVERAGE SLOPE = 16.5%

APEX
 CIVIL ENGINEERING & LAND SURVEYING

817 Arnold Drive Ste. 50
 Martinez, CA 94553
 Ph: (925) 476-8499

AVERAGE SLOPE EXHIBIT GLORIA KNOLL MS 24-0009	DRAWN BY: BJL	SHEET 1 OF 1
	PROJECT NO: 23004	DATE: 10-16-2024
	SCALE: 1"-30'	

