



**CONSENT CALENDAR**

**Agenda Item #7**

**AGENDA REPORT SUMMARY**

**Meeting Date:** July 14, 2020

**Subject:** Construction Contract Award: Cuesta Drive Traffic Calming Project TS-01022

**Prepared by:** Gaku Watanabe, Assistant Engineer

**Reviewed by:** Jim Sandoval, Engineering Services Director

**Approved by:** Chris Jordan, City Manager

**Attachment(s):**

1. Bid Summary
2. Final Project Plan

**Initiated by:**

City Council CIP Projects TS-01022

**Previous Council Consideration:**

Existing Capital Improvement Program, Collector Traffic Calming Project TS-01022 identifies Cuesta Drive for traffic calming improvement. City Council authorized award of a design services consultant agreement with Alta Planning + Design on July 10, 2018. Final concept plan line drawings were also presented to City Council on May 28, 2019 for authorization to proceed with final design.

**Fiscal Impact:**

Based on the lowest responsive and responsible bidder, the estimated project costs are:  
(Sealed bids will be opened on July 9<sup>th</sup>, 2020. Some content of this report such as lowest bidding contractor, lowest bid price, etc. will be filled in as revision before the meeting)

**Collector Street Traffic Calming Project TS-01022  
For Cuesta Drive Traffic Calming Project**

<b>Project Item</b>	<b>Project Budget</b>
Construction	\$ 504,327.13
Construction Contingency (15%)	\$ 75,649.07
Inspection	\$ 64,730.00
Printing/Advertising/Mailing/Misc.	\$ 5,000.00
<b>Estimated Total Cost</b>	<b>\$ 649,706.20</b>
Carry-forward Annual Collector Street Traffic Calming Budget from FY18-19	\$550,000
Approved Annual Collector Street Traffic Calming Budget for FY19-20	\$50,000
Approved Annual Collector Street Traffic Calming Budget for FY20-21	\$ 50,000
<b>Total Project Budget</b>	<b>\$650,000.00</b>



**Subject:** Construction Contract Award: Cuesta Drive Traffic Calming, Project TS-01022

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The Engineer's Estimate for construction is \$584,000. The funding source for Project TS-01022 is the Traffic Impact Fee account.

**Environmental Review:**

Categorically Exempt pursuant to CEQA Section 15301(c).

**Policy Question(s) for Council Consideration:**

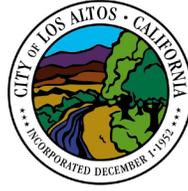
None

**Summary:**

- Cuesta Drive Traffic Calming Project TS-01022 was advertised on May 18, 2020
- On July 9, 2020, City opened three (3) bids in public session

**Staff Recommendation:**

Award the Base Bid for the Cuesta Drive Traffic Calming Project TS-01022 to Redgwick Construction; to authorize the City Manager to execute a contract in the amount of \$504,327.13 on behalf of the City.



**Subject:** Construction Contract Award: Cuesta Drive Traffic Calming, Project TS-01022

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### **Purpose**

Award the Base Bid for the Cuesta Drive Traffic Calming Project TS-01022 to Redgwick Construction. and authorize the City Manager to execute a contract in the amount of \$504,327.13 on behalf of the City.

### **Background**

The Cuesta Drive traffic calming project was initiated in Fall 2018 with the recommendations from the Collector Traffic Calming Plan (2011). This plan recommended construction of Raised Intersection or Raised Median as feasible traffic calming devices for Cuesta Drive, between S. El Monte Avenue and Springer Road. Raised intersections at the intersections of Cuesta Drive & Arboleda Drive and Cuesta Drive & S. Clark Avenue were identified as the appropriate traffic calming devices during the initial planning of the project.

During the first community open house meeting and Complete Streets Commission meeting for the project on January 23, 2019 the commission and residents expressed concern that the two raised intersection alone would not be effective enough to adequately reduce vehicle speeds along Cuesta Drive. In addition, residents along Arboleda Drive, San Luis Avenue, S. Clark Avenue, Benvenue Avenue, and Paco Avenue expressed concerns regarding spillover traffic from Cuesta Drive if any traffic calming measures were deployed without complementary traffic calming measures on their streets. Arboleda Drive residents expressed the greatest amount of concern at the January 23, 2019 meeting as their street is immediately adjacent to Cuesta Drive and with a direct connection from Springer Road.

City staff reinitiated the planning phase for the project in February 2019 and included Arboleda Drive within the project scope for traffic calming measures. An expanded data collection effort to document existing traffic volumes and vehicle speeds on all project and adjacent streets was also initiated to help advise the planning phase and to measure any future traffic spillover upon implementation.

A second community open house meeting, along with an accompanying Complete Streets Commission meeting, was held on March 27, 2019. Residents were presented with three different concept plans at that time identifying varying traffic calming measures including speed tables along Cuesta Drive, speed humps along Arboleda Drive, and varying crosswalk and Multi-Way Stop treatments in efforts to address not only vehicle speeds but also enhance bicycle/pedestrian pathway options and Safe Routes to School alternatives for access to Covington Elementary School. Precise location of each speed table and speed humps were selected through resident input. In addition, a resident survey of support was released to stay consistent with the Los Altos Neighborhood Traffic Calming Program. Minimum support of 66% was met for all streets.

A final concept plan that included community and Complete Streets Commission feedback was brought to City Council in May 2019 for authorization to proceed with final design. Minor changes were made during the design phase to accommodate ADA regulations and traffic safety concern.



**Subject:** Construction Contract Award: Cuesta Drive Traffic Calming, Project TS-01022

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### **Discussion/Analysis**

On May 18, 2020, City staff advertised Capital Improvement Plan (CIP) Project TS-01022 inviting contractors to bid. Sealed bids were due to the City on July 7<sup>th</sup>, 2020. On July 9, 2020, three (3) bids were opened in a public virtual session via Ring Central in order to avoid indoor gathering. The bid result summary is provided as Attachment 1. The lowest responsive and responsible bidder is Redgwick Construction for \$504,327.13.

This project was advertised with base bid which include construction of 5 speed tables, 7 speed humps, signage and striping, new crosswalks, micros-surfacing treatment and pedestrian walkway.

Notification letters will be sent to residents within the 1,000-foot radius of the street segments to inform them in advance of the upcoming project. Announcements will also be posted on the City website's home page. Residents will be provided with information on how to follow project details and updates on the City website. The Contractor will also be required to distribute notification at least 48 hours prior to the start of work to affected residents.

### **Options**

- 1) Award the Base Bid for the Cuesta Drive Traffic Calming Project TS-01022 to Redgwick Construction; authorize the City Manager to execute a contract in the amount of \$504,327.13 on behalf of the City.

**Advantages:** Contractor is the lowest responsive and responsible bidder. Project will complete measures to calm traffic and improve safety on the street segments detailed above

**Disadvantages:** None

- 2) Reject all bids and re-advertise the project

**Advantages:** None

**Disadvantages:** It is not anticipated that re-advertising the bid will result in lower bids. Measures to calm traffic and improve safety on the street segments detailed above will be delayed

### **Recommendation**



**Subject:** Construction Contract Award: Cuesta Drive Traffic Calming, Project TS-01022

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The staff recommends Option 1. Award the Base Bid, Add Alternate No. 1 for the Cuesta Drive Traffic Calming Project TS-01022 to Redgwick Construction. and authorize the City Manager to execute a contract in the amount of \$504,327.13 on behalf of the City.



**CITY OF LOS ALTOS**  
**CUESTA DRIVE TRAFFIC CALMING PROJECT TS-0102220**

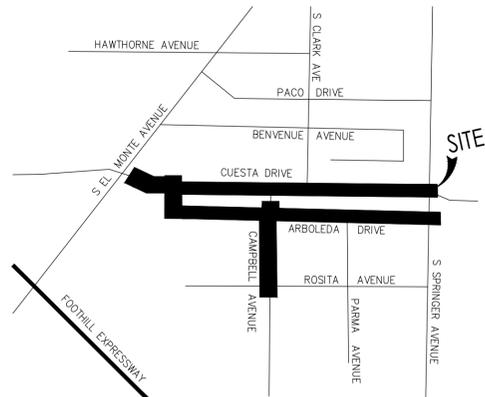
**BID OPENING**

July 9, 2020 2:00 PM

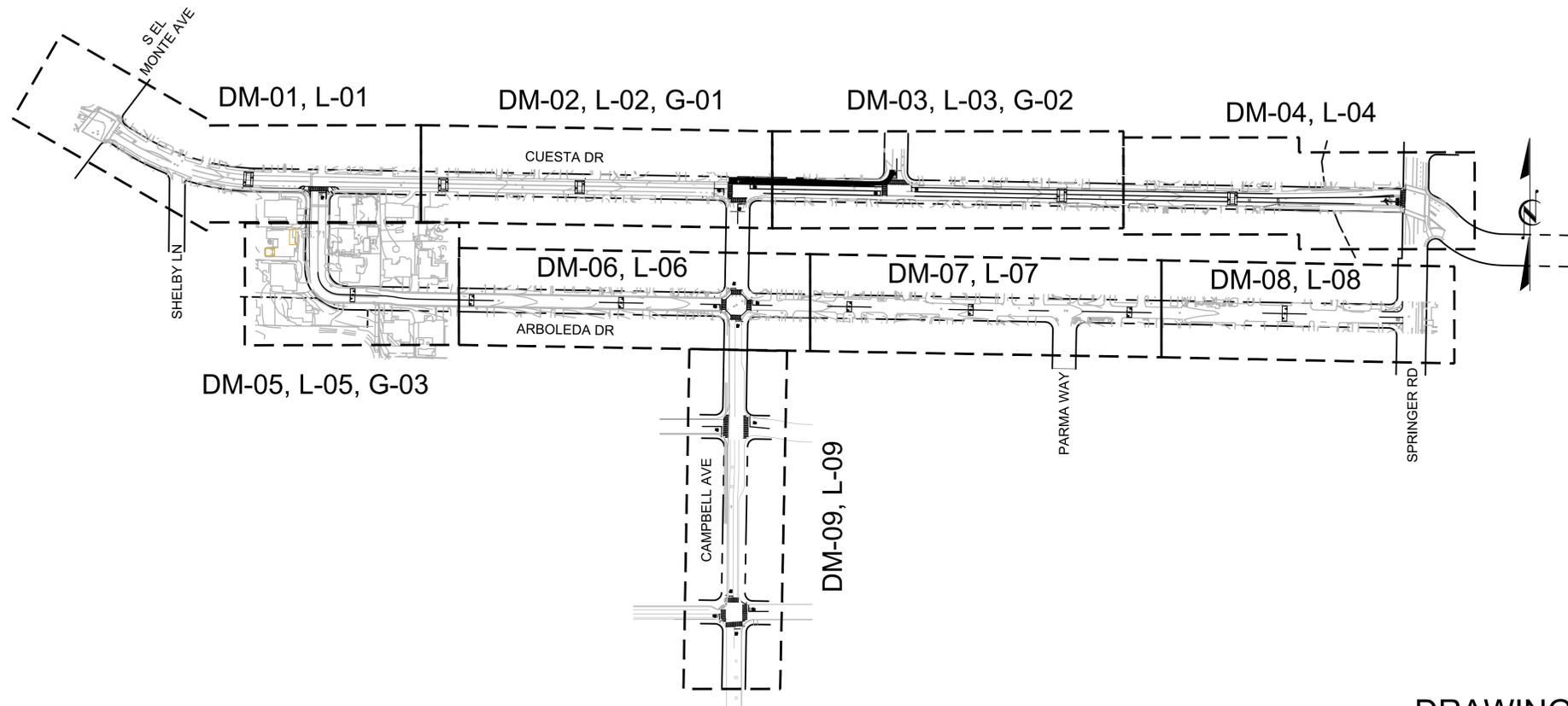
Virtual Bid Opening via Ring Central Conference Call

<b>CONTRACTOR</b>	<b>TOTAL BID</b>
Sposeto Engineering	\$ 524,057.10
Redgewick Construction	\$ 504,327.13
O'Grady Paving	\$ 594,069.05

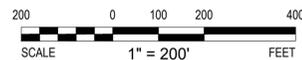
# CUESTA DRIVE TRAFFIC CALMING PROJECT NO. TS0102220 LOS ALTOS, CALIFORNIA



VICINITY MAP  
NOT TO SCALE



KEY MAP



## BASIS OF BEARINGS

HORIZONTAL COORDINATES ARE BASED ON CALIFORNIA STATE PLANE ZONE 3 UTILIZING THE CALIFORNIA SURVEYING AND DRAFTING SUPPLY REAL-TIME NETWORK. DATA WAS COLLECTED IN NOVEMBER 2018.

## BENCHMARK

BRASS DISK ON TOP OF CONCRETE NORTHEASTERN HEADWALL LOCATED AT THE NORTHWEST END OF SAID HEADWALL ON HALE CREEK BRIDGE AT COVINGTON ROAD. CITY OF LOS ALTOS.

SCVWD BM 350  
ELEVATION (NAVD88) FEET: 174.20

## DIG ALERT

DIAL TOLL FREE



AT LEAST 2 DAYS  
BEFORE YOU DIG

## DRAWING INDEX

SHEET	TITLE	CONTENT
1	T-01	TITLE SHEET
2, 3	GN-01, GN-02	GENERAL NOTES
4-12	DM-01 TO DM-09	DEMOLITION PLANS
13-21	L-01 TO L-09	LAYOUT PLANS
22-23	G-01, G-02	GRADING & DRAINAGE PLANS
24, 25	D-01, D-02	CONSTRUCTION DETAILS
26	D-03	SIGNING DETAILS
27, 28	D-04, D-05	CITY STANDARD DETAILS
29	D-06	CONSTRUCTION BMP'S

DESIGNED:	JW
REVIEWED:	SF
DRAWN:	JP
DATE:	5/18/2020
Varies SCALE	

REVISIONS		
NO	DATE	ITEM



304 12TH ST, SUITE 2A  
OAKLAND, CA 94607  
p:510.540.5008



**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

TITLE SHEET

SHEET NO.

T-01  
1 OF 29

**GENERAL NOTES:**

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY AS REQUIRED. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (U.S.A.) AT 1-800-227-2600 (OR DIAL 811) 72 HOURS PRIOR TO COMMENCING DEMOLITION OR EXCAVATION.
- CONTRACTOR TO CONFIRM IF TRUCKS/EQUIPMENT CAN ACCESS SITE. IF TREE BRANCHES ARE AN OBSTRUCTION, THE CONTRACTOR SHALL REMOVE THE BRANCHES IN THE PRESENCE OF THE CITY ARBORIST.
- THE CONTRACTOR SHALL COMPLY WITH ALL STATE, COUNTY, AND CITY LAWS AND ORDINANCES, REGULATIONS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS, STATE CONSTRUCTION SAFETY ORDERS, AND CAL/OSHA. THIS REQUIREMENT SHALL BE MADE TO APPLY AT ALL TIMES.
- REQUIREMENTS FOR ALLOWABLE WORK HOURS AND TRAFFIC CONTROL ARE IN THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE FOR CONTINUOUS INGRESS AND EGRESS TO ALL PRIVATE PROPERTIES ADJACENT TO THE WORK THROUGHOUT THE PERIOD OF CONSTRUCTION UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL LOCATE, REFERENCE, AND SET SUFFICIENT MARKS FOR ALL EXISTING UTILITY BOXES, MANHOLE COVERS, MONUMENT LIDS, ETC., PRIOR TO ANY DEMOLITION OR PAVING WORK WITHIN THE PROJECT LIMITS AND SHALL REMOVE THE MARKS UPON COMPLETION OF THE WORK.
- THE FINAL ADJUSTMENT TO FINISHED GRADE OF ALL FRAMES, COVERS, AND MANHOLES SHALL BE MADE FOLLOWING PLACEMENT OF THE TOP LAYER OF ASPHALT CONCRETE UNLESS OTHERWISE NOTED.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF LOS ALTOS STANDARD DRAWINGS, THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, DATED 2014, REVISION 4, AND THE CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD PLANS, DATED 2018, INCLUDING ALL PUBLISHED REVISIONS.
- THE ENGINEER ASSUMES NO RESPONSIBILITY BEYOND THE ADEQUACY OF THE DESIGN CONTAINED HEREIN. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE 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 ENGINEER HARMLESS FROM ANY AND ALL LIABILITY IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE CITY.
- THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS, SURROUNDING LANDSCAPE, AND ALL OTHER EXISTING CONDITIONS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC., AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS, AND HAZARDOUS CONDITIONS.
- THE CONTRACTOR SHALL NOTIFY ALL TRANSIT AGENCIES, TRASH COLLECTION AGENCY, AND EMERGENCY SERVICES OF THE CONSTRUCTION SCHEDULE TO ALLOW COORDINATION.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE SITE OR SURROUNDING AREA AS A RESULT OF THE CONTRACTOR'S WORK OR OPERATIONS. EXISTING CURB, GUTTER, AND OTHER IMPROVEMENTS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ANY STREET SIGNS AND STREET SIGN POSTS NOT IDENTIFIED WITHIN THESE PLANS THAT EXIST WITHIN THE PROJECT EXTENTS SHALL BE PROTECTED IN PLACE, OR ARE TO REMAIN, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
- ANY EXISTING PAVEMENT MARKINGS AND PAVEMENT STRIPING NOT IDENTIFIED WITHIN THESE PLANS THAT EXIST WITHIN THE PROJECT EXTENTS SHALL BE PROTECTED IN PLACE, OR ARE TO REMAIN, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

**SURVEY LEGEND**

- RIGHT OF WAY LINE
- LOT LINE
- FENCE LINE
- SD— STORM DRAIN LINE
- SS— SANITARY SEWER LINE
- W— WATER LINE
- G— GAS LINE
- /// WALL
- OVERHEAD ELECTRICAL LINE
- EPB ELECTRICAL PULLBOX
- ELECTRICAL MANHOLE
- ⚡ ELECTROLIER
- ⚡ FIRE HYDRANT
- ✉ MAILBOX
- ⚡ POWER POLE
- ⚡ GUY ANCHOR
- ⚡ SIGN
- ⊙ SANITARY SEWER CLEANOUT
- ⊙ SANITARY SEWER MANHOLE
- ⊙ STORM DRAIN MANHOLE
- ⊙ WATER METER
- ⊙ WATER VALVE
- ⊙ IRRIGATION VALVE
- ⊙ TREE STUMP

**DIG ALERT**

DIAL TOLL FREE



**AT LEAST 2 DAYS BEFORE YOU DIG**

**UTILITY NOTE**

THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THIS SURVEY.

**PROPOSED WORK LEGEND:**

- PCC SECTION
- DETECTABLE WARNING SURFACE
- D.G. SECTION
- A.C. SECTION

**DEMOLITION LEGEND:**

- REMOVE EXISTING STRIPING BY GRINDING. ALL DEBRIS SHALL BE REMOVED BY THE END OF EACH WORKDAY.
- SAWCUT EXISTING PAVEMENT SURFACE. ALL DEBRIS SHALL BE REMOVED BY THE END OF EACH WORKDAY.
- PROTECT IN PLACE EX. STRIPING AND PAVEMENT MARKINGS
- GRIND 3" OF EXISTING ASPHALT PAVEMENT SURFACE (PER PLANS)
- CLEAR AND GRUB
- REMOVE AND DISPOSE OF A.C. AND BASE MATERIAL
- REMOVE AND DISPOSE OF CONCRETE AND BASE MATERIAL
- REMOVE AND DISPOSE OF EXISTING CURB / BERM (PER PLANS)
- LIMITS OF MICROSURFACING

**ABBREVIATIONS:**

- A.B. AGGREGATE BASE
- A.C. ASPHALT CONCRETE
- B.C. BEGINNING OF CURVE
- BOW BACK OF WALK
- CALTRANS CALIFORNIA DEPARTMENT OF TRANSPORTATION
- CB CATCH BASIN
- CONT. CONTINUED
- CL CENTERLINE
- DI STORM DRAIN INLET
- D/W DRIVEWAY
- (E) EAST
- E: EASTING
- EC END OF CURVE
- EOP EDGE OF PAVEMENT
- EX. EXISTING
- FG FINISHED GRADE
- FH FIRE HYDRANT
- FL FLOWLINE
- G GAS UTILITY
- HMA HOT MIXED ASPHALT
- INV. INVERT ELEVATION
- JP JOINT POLE
- LF LINEAR FEET (FOOT)
- L LEFT
- MAX. MAXIMUM
- MH MANHOLE
- MIN. MINIMUM
- (N) NORTH
- N: NORTHING
- NTS NOT TO SCALE
- O.G. ORIGINAL GROUND
- OH OVERHEAD UTILITY
- O.C. ON CENTER
- PB PULLBOX
- PCC PORTLAND CEMENT CONCRETE
- PRC POINT OF REVERSE CURVE
- PVC POLYVINYL CHLORIDE PIPE
- R RIGHT (DIRECTIONAL)
- R: RADIUS
- RCP REINFORCED CEMENT PIPE
- RIM RIM ELEVATION
- R/W RIGHT OF WAY
- (S) SOUTH
- SD STORM DRAIN
- SS SANITARY SEWER
- STA STATION
- STD. STANDARD
- SCVURPPP SANTA CLARA URBAN RUNOFF POLLUTION PREVENTION PROGRAM
- SW SIDEWALK
- TC TOP OF CURB
- TS TRAFFIC SIGNAL
- TYP. TYPICAL
- VLT VAULT
- W WATER UTILITY
- (W) WEST

**TEMPORARY EROSION CONTROL NOTE:**

CONTRACTOR SHALL PROVIDE TEMPORARY STORM WATER POLLUTION CONTROL DURING CONSTRUCTION PER SANTA CLARA VALLEY URBAN RUNOFF POLLUTION PREVENTION PROGRAM CONSTRUCTION BEST MANAGEMENT PRACTICES (SEE SHEET D-06). PROVIDE DRAINAGE INLET PROTECTION AT STORM DRAINS LOCATED WITHIN 500' OF PROJECT EXTENTS PER CALTRANS STD. PLAN T62. CONTRACTOR TO VERIFY ALL STORM WATER DRAIN INLET LOCATIONS

DESIGNED: JW	REVISIONS
REVIEWED: SF	NO DATE ITEM
DRAWN: JP	
DATE: 5/18/2020	
N/A SCALE	



**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

GENERAL NOTES

SHEET NO.

**GN-01**  
**2 OF 29**

ALIGNMENT LINE DATA					
LINE #	ALIGNMENT	LENGTH	BEARING	Beg. STA	END STA
L1	C	30.00	S52°45'55.69"E	1+00.00	1+30.00
L2	C	2967.48	S88°59'40.69"E	5+32.52	35+00.00
L3	A	275.00	S1°00'19.31"W	6+33.83	9+08.83
L4	A	2725.00	S88°59'40.69"E	10+26.64	37+51.64
L5	CB	1000.00	S0°55'13.92"W	19+51.24	29+51.24

ALIGNMENT CURVE DATA						
CURVE #	ALIGNMENT	RADIUS	LENGTH	DELTA	Beg. STA	END STA
C1	C	636.58	402.52	36°13'45.00"	1+30.00	5+32.52
C2	A	75.00	117.81	90°00'00.00"	9+08.83	10+26.64

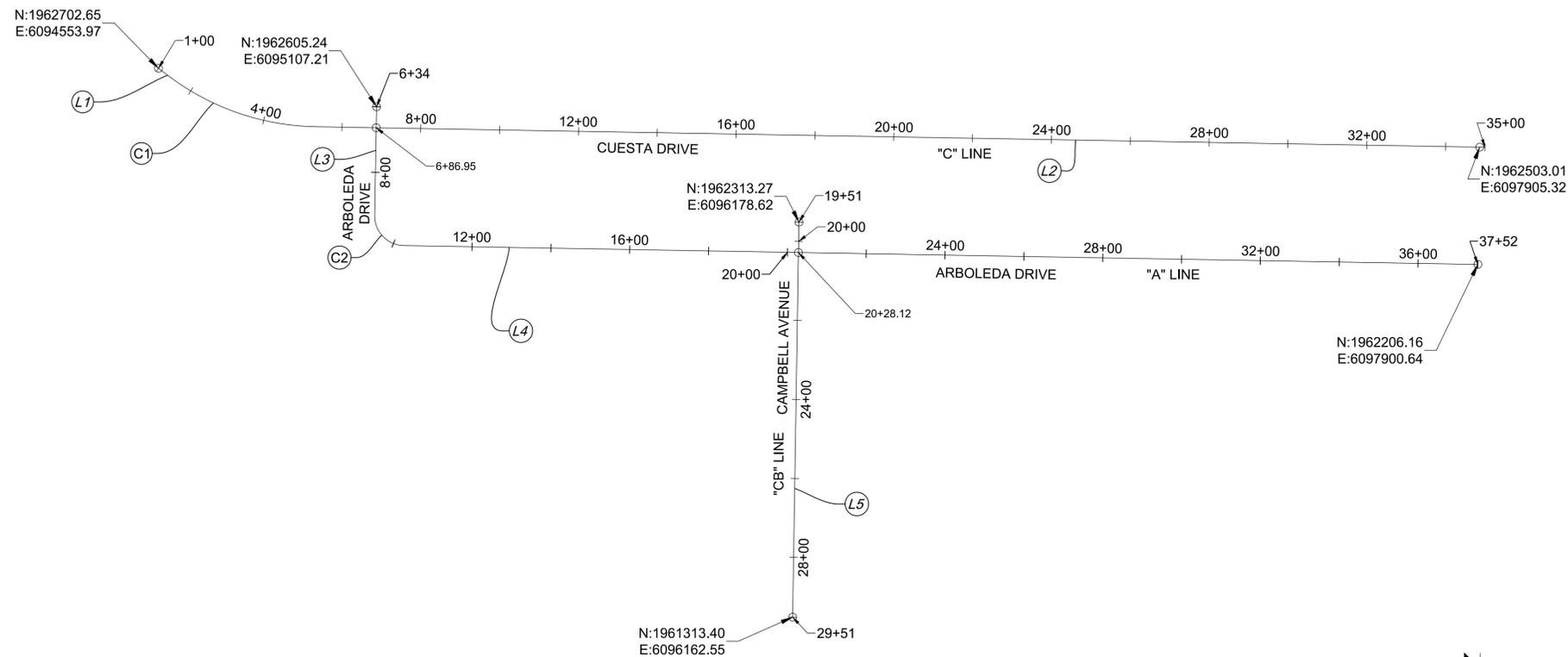
**BASIS OF BEARINGS**

HORIZONTAL COORDINATES ARE BASED ON CALIFORNIA STATE PLANE ZONE 3 UTILIZING THE CALIFORNIA SURVEYING AND DRAFTING SUPPLY REAL-TIME NETWORK. DATA WAS COLLECTED IN NOVEMBER 2018.

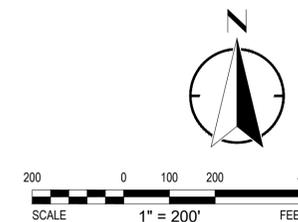
**BENCHMARK**

BRASS DISK ON TOP OF CONCRETE NORTHEASTERN HEADWALL LOCATED AT THE NORTHWEST END OF SAID HEADWALL ON HALE CREEK BRIDGE AT COVINGTON ROAD, CITY OF LOS ALTOS.

SCVWD BM 350  
ELEVATION (NAVD88) FEET: 174.20



**ALIGNMENT GEOMETRY**



DESIGNED: JW	REVISIONS
REVIEWED: SF	NO DATE ITEM
DRAWN: JP	
DATE: 5/18/2020	
1"=200' SCALE	



304 12TH ST, SUITE 2A  
OAKLAND, CA 94607  
p:510.540.5008



**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

GENERAL NOTES

SHEET NO.

**GN-02**  
3 OF 29

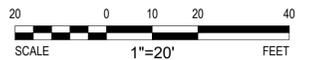
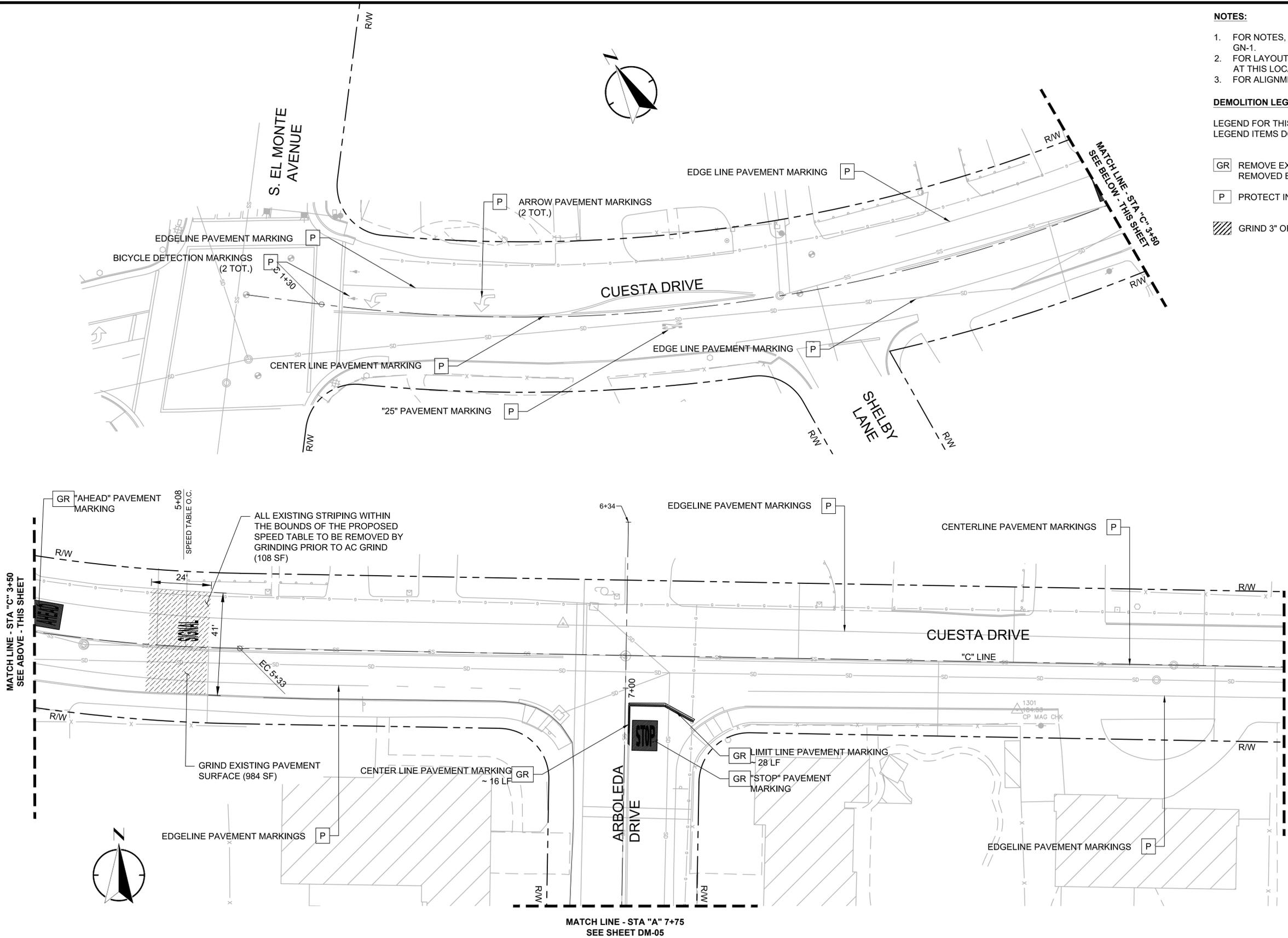
**NOTES:**

- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-1.
- FOR LAYOUT, GRADING & DRAINAGE DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
- FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02.

**DEMOLITION LEGEND:**

LEGEND FOR THIS SHEET ONLY.  
LEGEND ITEMS DO NOT NECESSARILY APPEAR ON EVERY SHEET.

-  REMOVE EXISTING STRIPING BY GRINDING. ALL DEBRIS SHALL BE REMOVED BY THE END OF EACH WORKDAY.
-  PROTECT IN PLACE EX. STRIPING AND PAVEMENT MARKINGS
-  GRIND 3" OF EXISTING ASPHALT PAVEMENT SURFACE.



DESIGNED:	JW	REVISIONS	
REVIEWED:	SF	NO	DATE
DRAWN:	JP_EK	ITEM	
DATE:	5/18/2020		
1"=20' SCALE			



304 12TH ST, SUITE 2A  
OAKLAND, CA 94607  
p:510.540.5008



**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

DEMOLITION  
PLANS

SHEET NO.  
**DM-01**  
4 OF 29

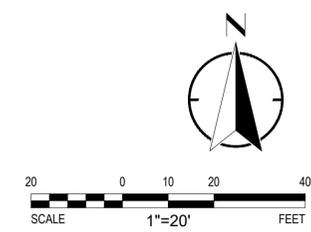
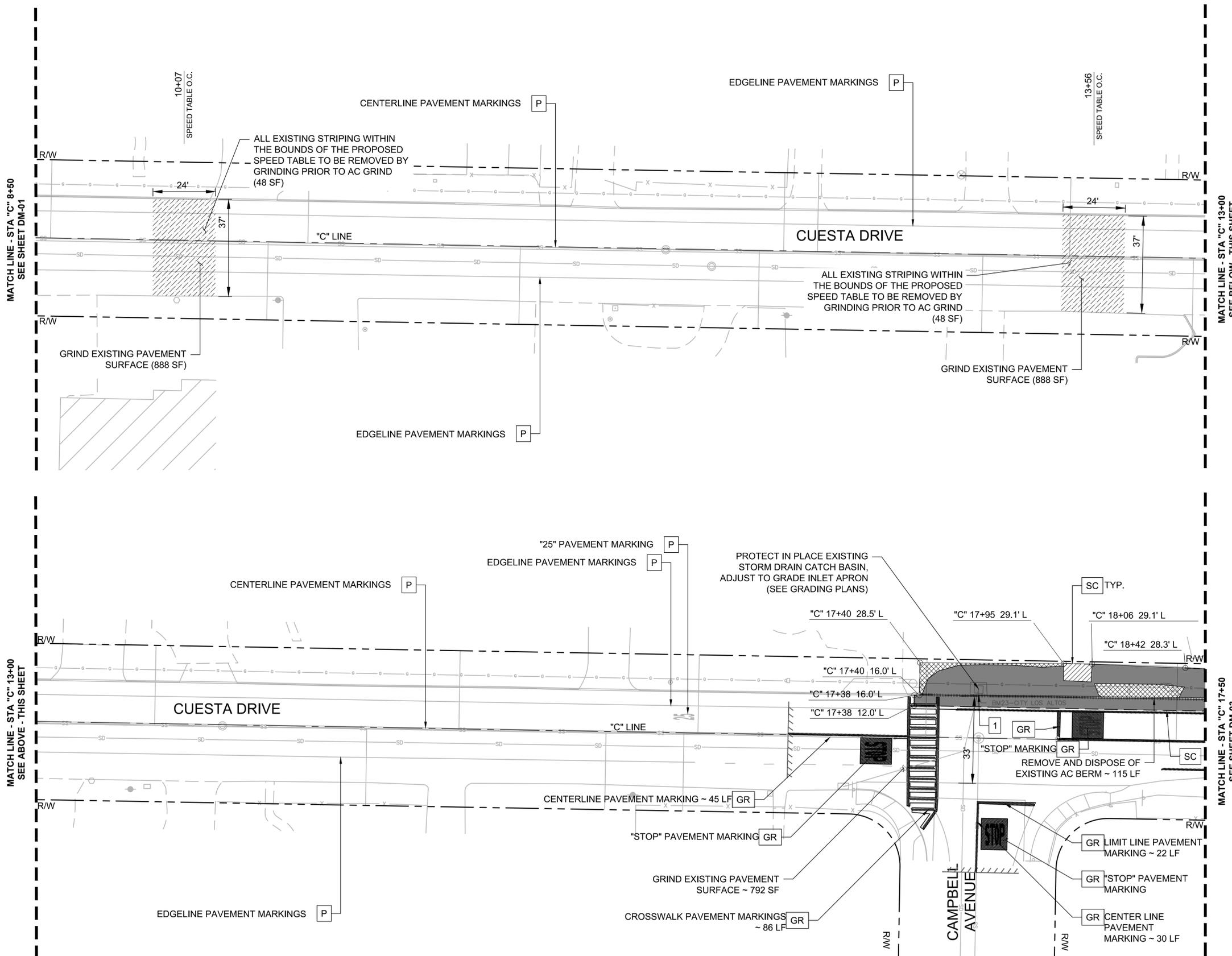
**NOTES:**

- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-1.
- FOR LAYOUT, GRADING & DRAINAGE DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
- FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02
- PROTECT IN PLACE EXISTING STORM DRAIN ON NORTH SIDE OF CUESTA DRIVE.
- EXISTING STRIPING WITHIN LIMITS OF MICROSURFACING TREATMENT SHALL BE REMOVED PRIOR TO MICROSURFACING APPLICATION.
- MICROSURFACING PAVEMENT TREATMENT (AND PAVEMENT PREPARATION PROCESSES) SHALL CONFORM TO THE LIMITS SHOWN, AND SHALL SPAN EDGE OF PAVEMENT TO EDGE OF PAVEMENT (OR LIP OF GUTTER, WHERE APPLICABLE) WITHIN THOSE LIMITS.

**DEMOLITION LEGEND:**

LEGEND FOR THIS SHEET ONLY.  
LEGEND ITEMS DO NOT NECESSARILY APPEAR ON EVERY SHEET.

- 1 PROTECT IN PLACE EXISTING MONUMENT OR CONTROL POINT
- GR REMOVE EXISTING STRIPING BY GRINDING. ALL DEBRIS SHALL BE REMOVED BY THE END OF EACH WORKDAY.
- SC SAWCUT EXISTING PAVEMENT SURFACE. ALL DEBRIS SHALL BE REMOVED BY THE END OF EACH WORKDAY.
- P PROTECT IN PLACE EX. STRIPING AND PAVEMENT MARKINGS
- GRIND 3" OF EXISTING ASPHALT PAVEMENT SURFACE (PER PLANS)
- CLEAR AND GRUB
- REMOVE AND DISPOSE OF ASPHALT AND BASE MATERIAL
- REMOVE AND DISPOSE OF CONCRETE AND BASE MATERIAL
- REMOVE AND DISPOSE OF EXISTING CURB / BERM (PER PLANS)
- LIMITS OF MICROSURFACING

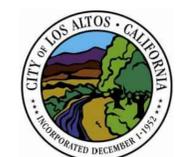


DESIGNED: JW  
REVIEWED: SF  
DRAWN: JP\_EK  
DATE: 5/18/2020  
1"=20'  
SCALE

REVISIONS		
NO	DATE	ITEM



304 12TH ST, SUITE 2A  
OAKLAND, CA 94607  
p:510.540.5008

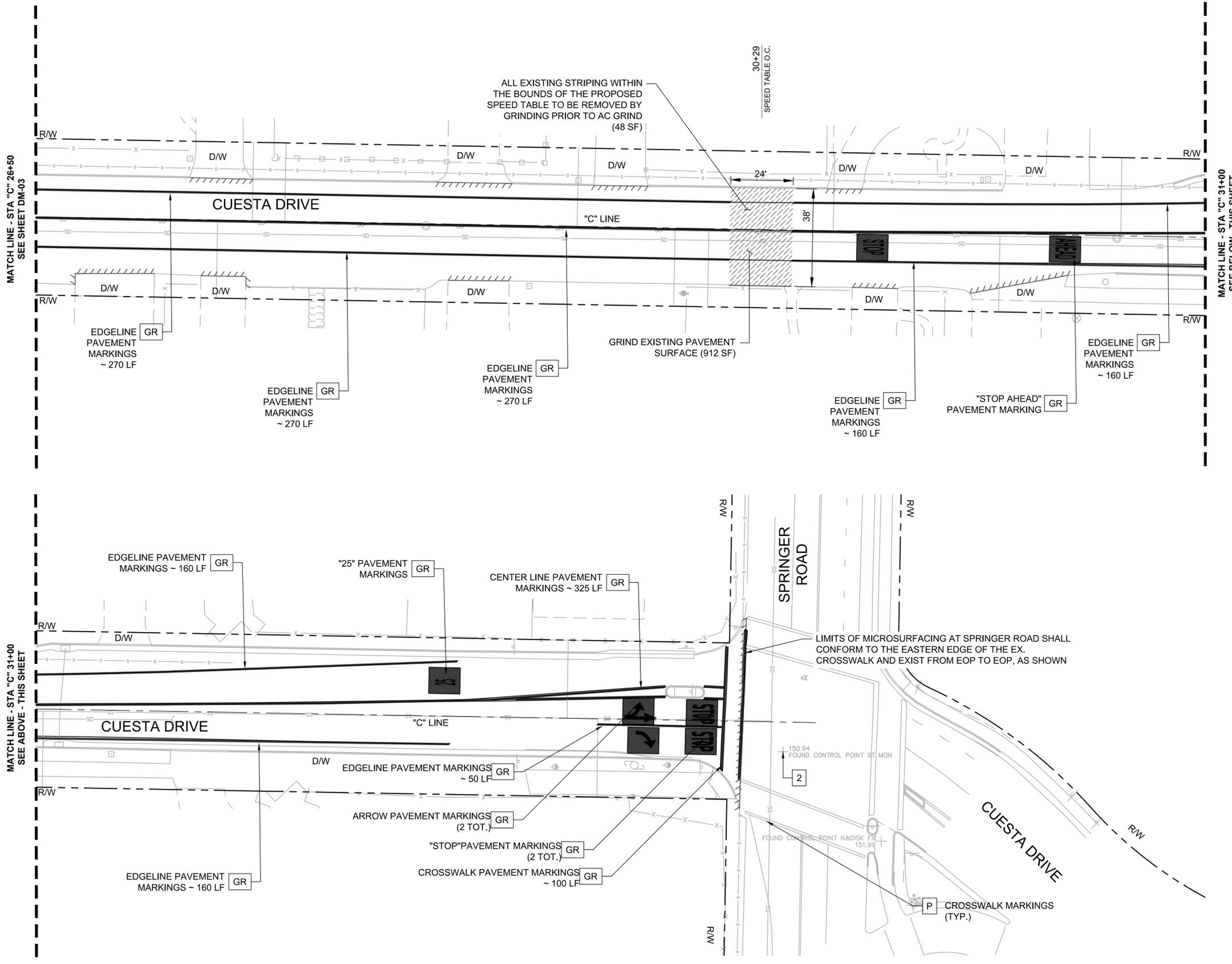


**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

DEMOLITION  
PLANS

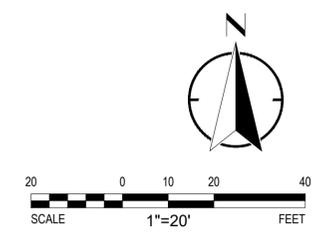
SHEET NO.  
**DM-02**  
5 OF 29





- NOTES:**
- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-1.
  - FOR LAYOUT, GRADING & DRAINAGE DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
  - FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02.
  - EXISTING STRIPING WITHIN LIMITS OF MICROSURFACING TREATMENT SHALL BE REMOVED PRIOR TO THE MICROSURFACING APPLICATION.
  - MICROSURFACING PAVEMENT TREATMENT (AND PAVEMENT PREPARATION PROCESSES) SHALL CONFORM TO THE LIMITS SHOWN, AND SHALL SPAN EDGE OF PAVEMENT TO EDGE OF PAVEMENT (OR LIP OF GUTTER, WHERE APPLICABLE) WITHIN THOSE LIMITS.
  - MICROSURFACING LIMITS TO CONFORM TO DRIVEWAY LIMITS.

- DEMOLITION LEGEND:**
- LEGEND FOR THIS SHEET ONLY.  
LEGEND ITEMS DO NOT NECESSARILY APPEAR ON EVERY SHEET.
- GR REMOVE EXISTING STRIPING BY GRINDING. ALL DEBRIS SHALL BE REMOVED BY THE END OF EACH WORKDAY.
  - P PROTECT IN PLACE EX. STRIPING AND PAVEMENT MARKINGS
  - GRIND 3" OF EXISTING ASPHALT PAVEMENT SURFACE (PER PLANS)
  - LIMITS OF MICROSURFACING



DESIGNED:	JW	REVISIONS
REVIEWED:	SF	NO DATE ITEM
DRAWN:	JP_EK	
DATE:	5/18/2020	
1"=20' SCALE		



304 12TH ST, SUITE 2A  
OAKLAND, CA 94607  
p:510.540.5008



**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

DEMOLITION  
PLANS

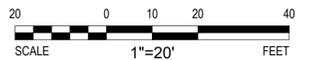
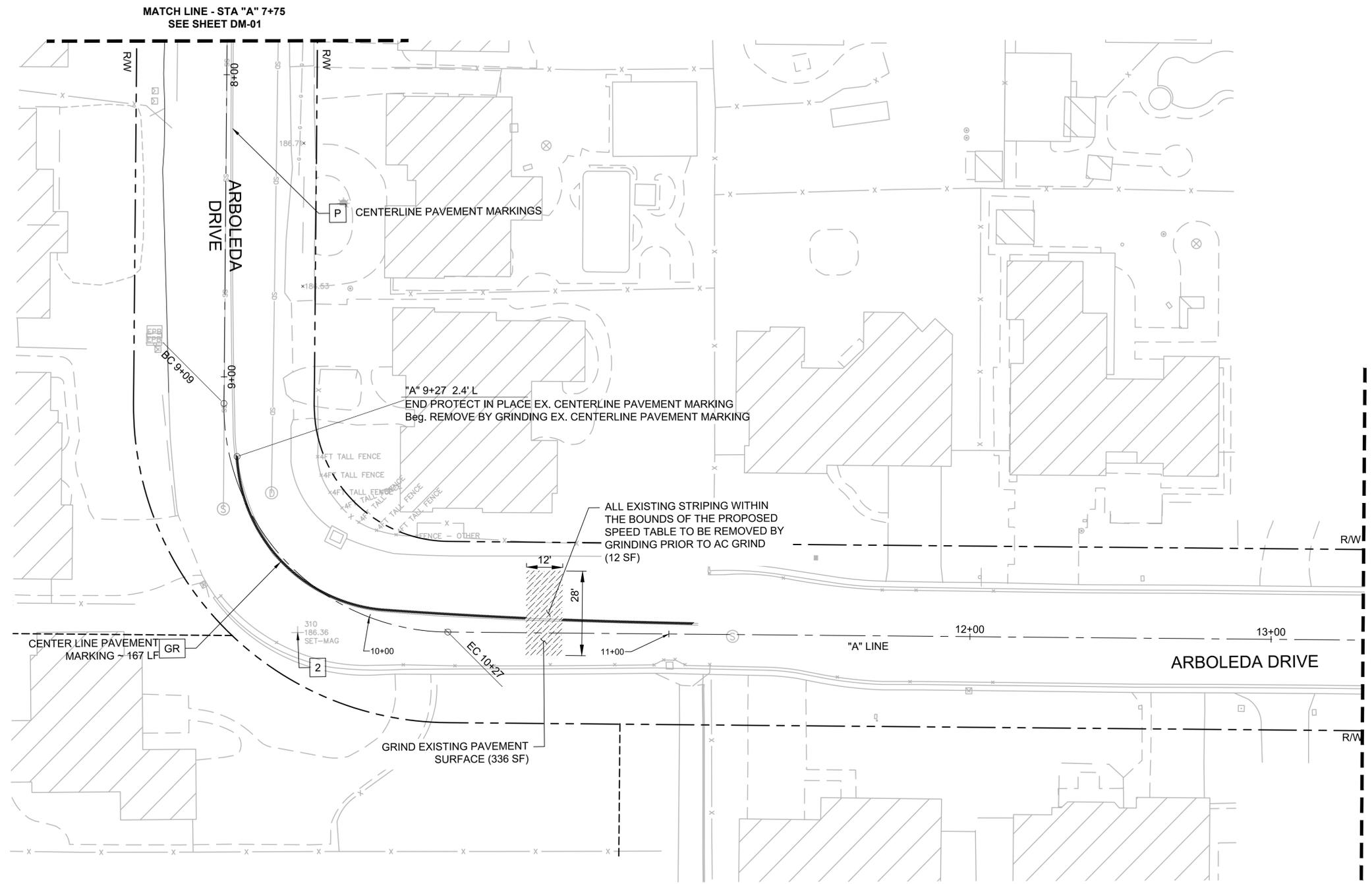
SHEET NO.  
**DM-04**  
7 OF 29

- NOTES:**
- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-1.
  - FOR LAYOUT, GRADING & DRAINAGE DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
  - FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02.

**DEMOLITION LEGEND:**

LEGEND FOR THIS SHEET ONLY.  
LEGEND ITEMS DO NOT NECESSARILY APPEAR ON EVERY SHEET.

-  GR REMOVE EXISTING STRIPING BY GRINDING. ALL DEBRIS SHALL BE REMOVED BY THE END OF EACH WORKDAY.
-  P PROTECT IN PLACE EX. STRIPING AND PAVEMENT MARKINGS
-  GRIND 3" OF EXISTING ASPHALT PAVEMENT SURFACE (PER PLANS)



DESIGNED: JW  
REVIEWED: SF  
DRAWN: JP\_EK  
DATE: 5/18/2020  
1"=20'  
SCALE

NO	DATE	ITEM



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**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

DEMOLITION  
PLANS

SHEET NO.  
**DM-05**  
8 OF 29

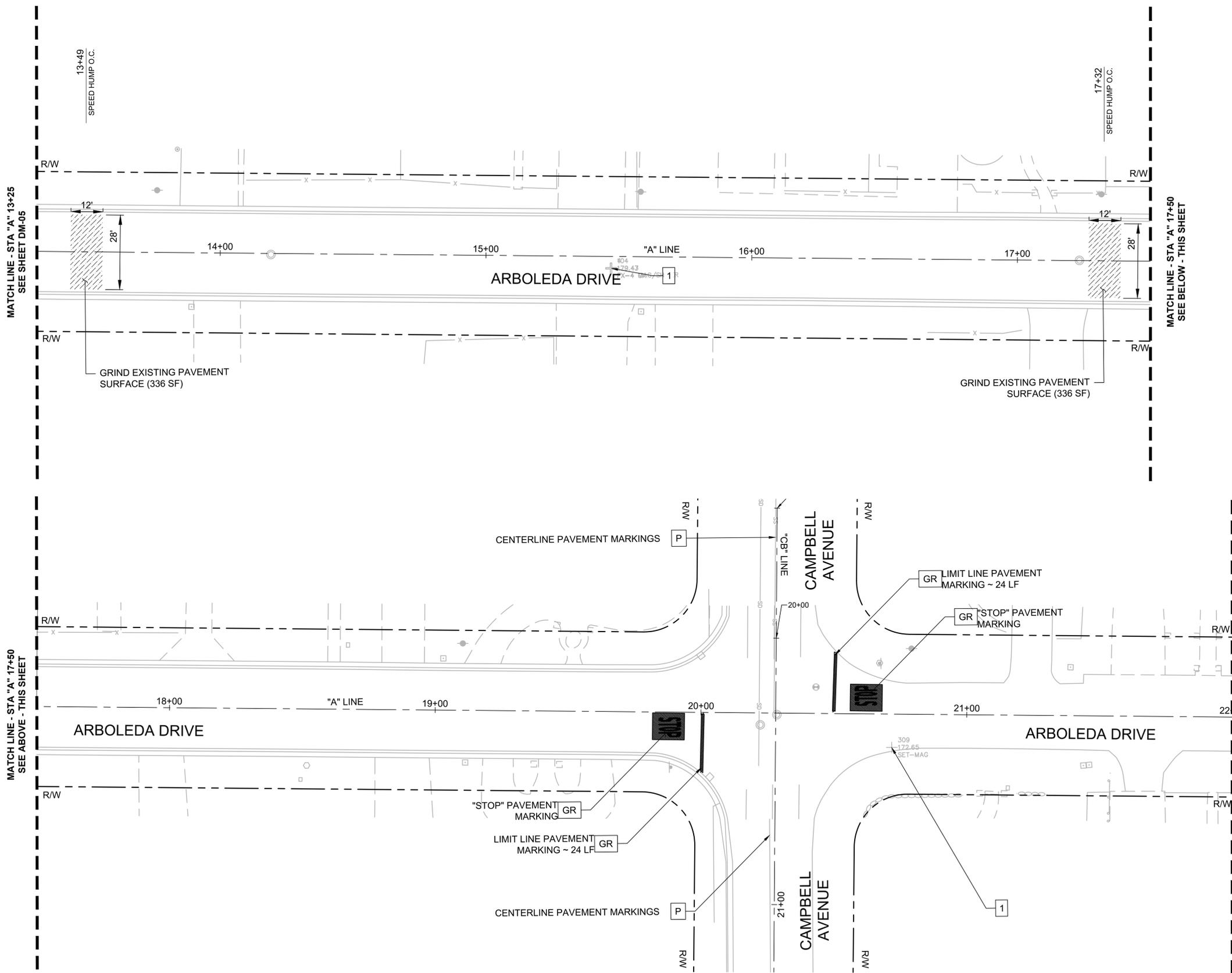
**NOTES:**

- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-1.
- FOR LAYOUT, GRADING & DRAINAGE DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
- FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02.

**DEMOLITION LEGEND:**

LEGEND FOR THIS SHEET ONLY.  
LEGEND ITEMS DO NOT NECESSARILY APPEAR ON EVERY SHEET.

- 1 PROTECT IN PLACE EXISTING MONUMENT OR CONTROL POINT
- GR REMOVE EXISTING STRIPING BY GRINDING. ALL DEBRIS SHALL BE REMOVED BY THE END OF EACH WORKDAY.
- P PROTECT IN PLACE EX. STRIPING AND PAVEMENT MARKINGS
- GRIND 3" OF EXISTING ASPHALT PAVEMENT SURFACE (PER PLANS)

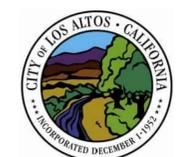


DESIGNED: JW  
REVIEWED: SF  
DRAWN: JP\_EK  
DATE: 5/18/2020  
1"=20'  
SCALE

REVISIONS		
NO	DATE	ITEM



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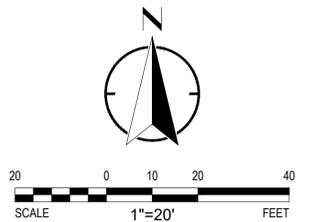
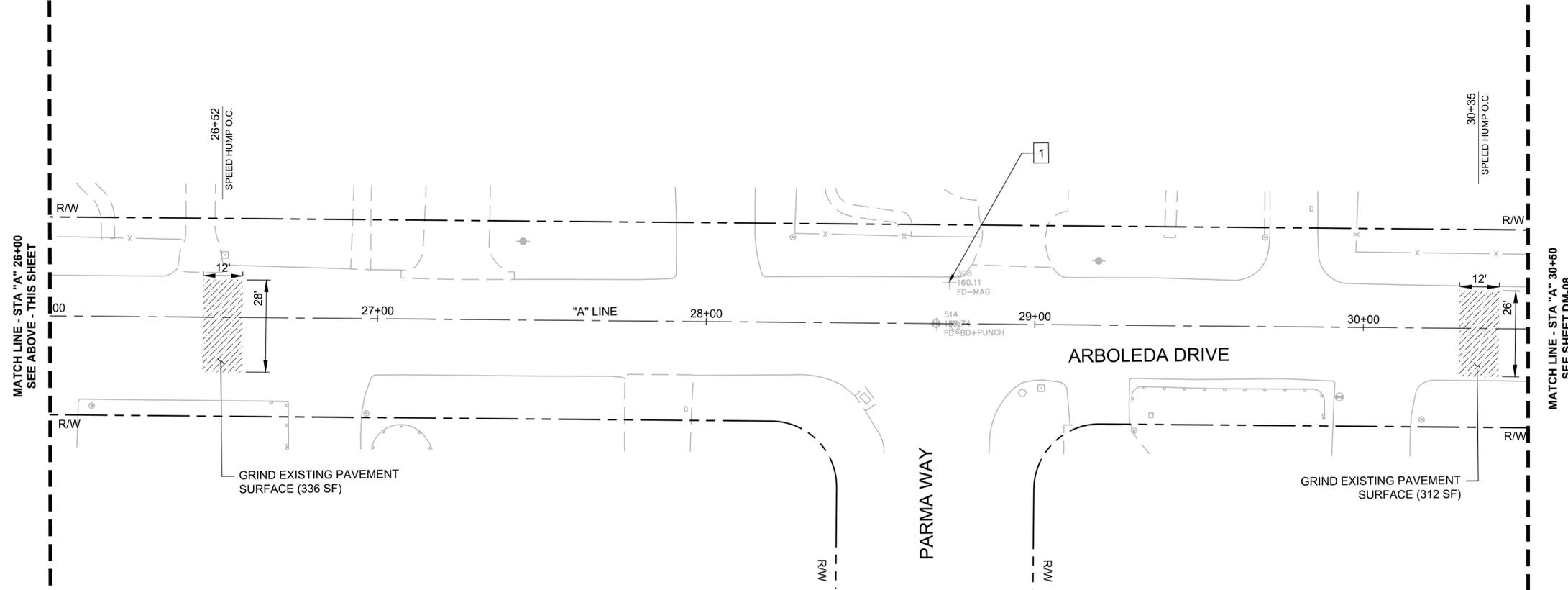
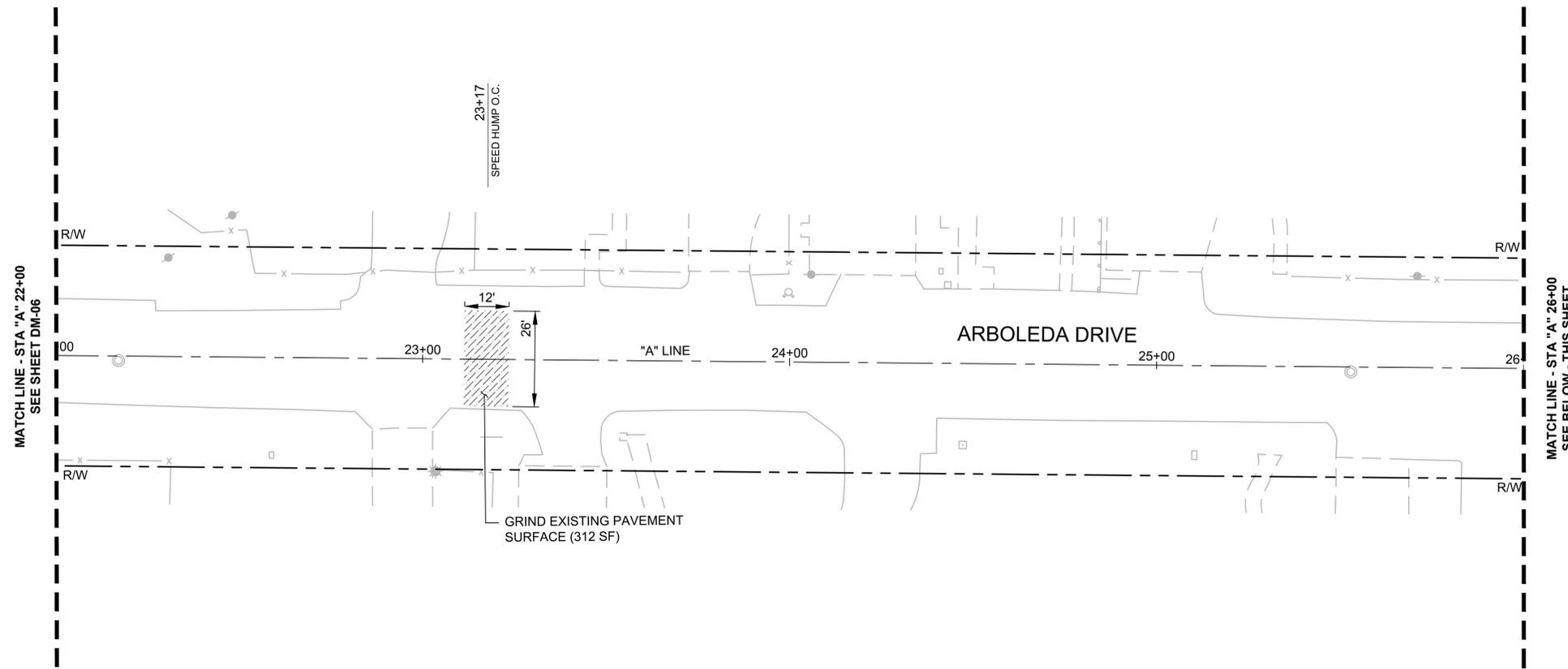
**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

DEMOLITION  
PLANS

SHEET NO.  
**DM-06**  
9 OF 29

- NOTES:**
- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-1.
  - FOR LAYOUT, GRADING & DRAINAGE DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
  - FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02.

- DEMOLITION LEGEND:**
- LEGEND FOR THIS SHEET ONLY.  
LEGEND ITEMS DO NOT NECESSARILY APPEAR ON EVERY SHEET.
- 1 PROTECT IN PLACE EXISTING MONUMENT OR CONTROL POINT
  - GRIND 3" OF EXISTING ASPHALT PAVEMENT SURFACE (PER PLANS)

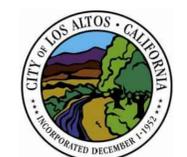


DESIGNED: JW  
 REVIEWED: SF  
 DRAWN: JP\_EK  
 DATE: 5/18/2020  
 1"=20'  
 SCALE

REVISIONS		
NO	DATE	ITEM



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**CUESTA DRIVE  
 TRAFFIC CALMING  
 PROJECT No. TS0102220**  
 Los Altos, California

DEMOLITION  
 PLANS

SHEET NO.  
**DM-07**  
 10 OF 29

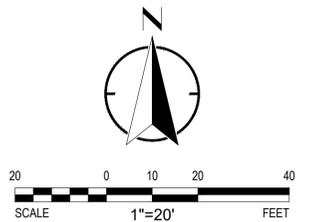
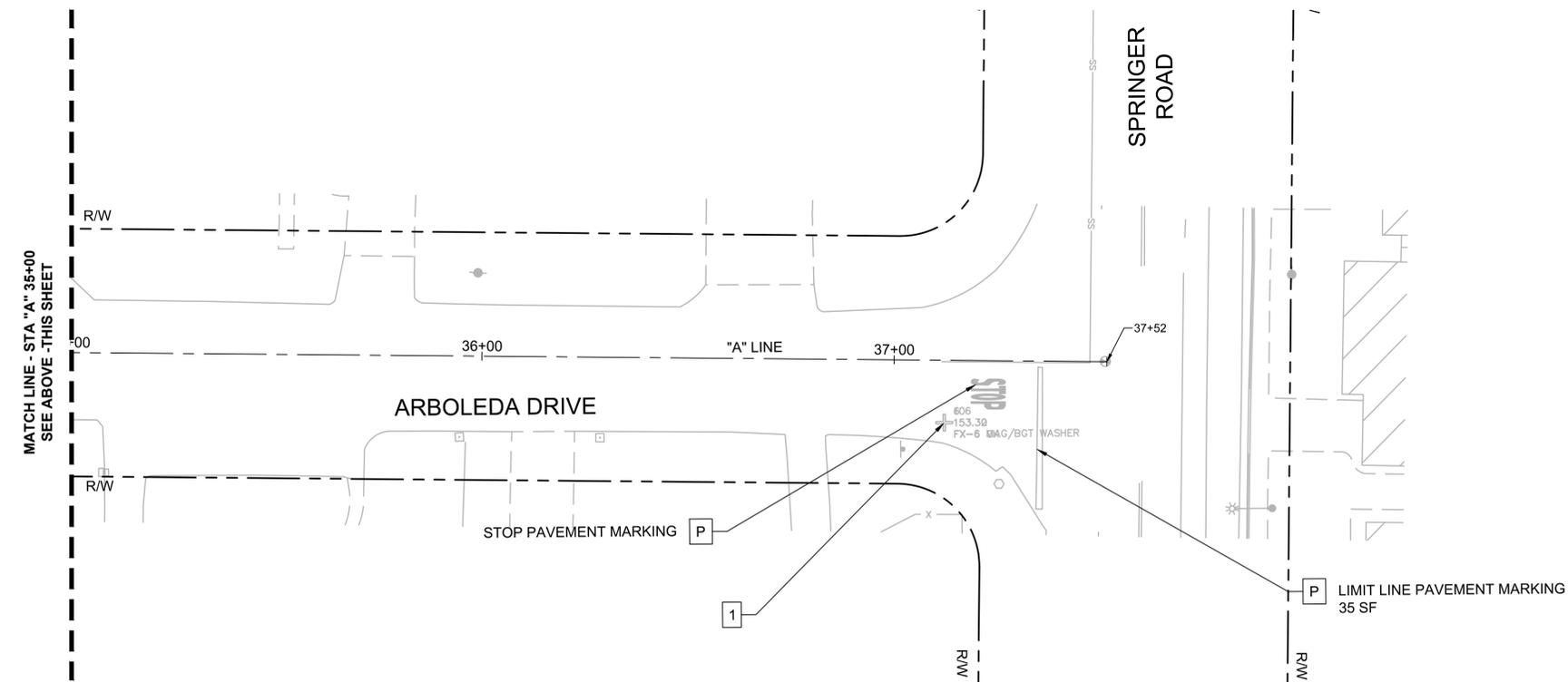
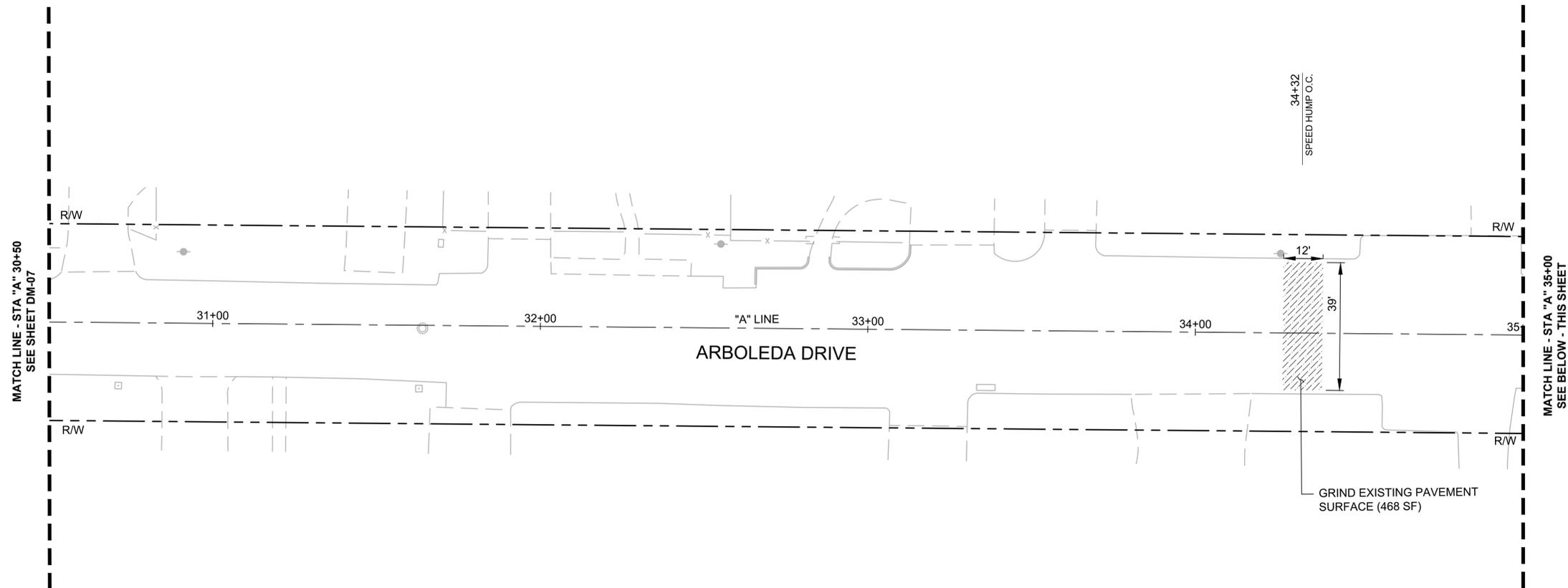
**NOTES:**

- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-1.
- FOR LAYOUT, GRADING & DRAINAGE DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
- FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02.

**DEMOLITION LEGEND:**

LEGEND FOR THIS SHEET ONLY.  
LEGEND ITEMS DO NOT NECESSARILY APPEAR ON EVERY SHEET.

- 1 PROTECT IN PLACE EXISTING MONUMENT OR CONTROL POINT
- P PROTECT IN PLACE EX. STRIPING AND PAVEMENT MARKINGS
- GRIND 3" OF EXISTING ASPHALT PAVEMENT SURFACE (PER PLANS)



DESIGNED: JW  
REVIEWED: SF  
DRAWN: JP\_EK  
DATE: 5/18/2020  
1"=20'  
SCALE

REVISIONS		
NO	DATE	ITEM



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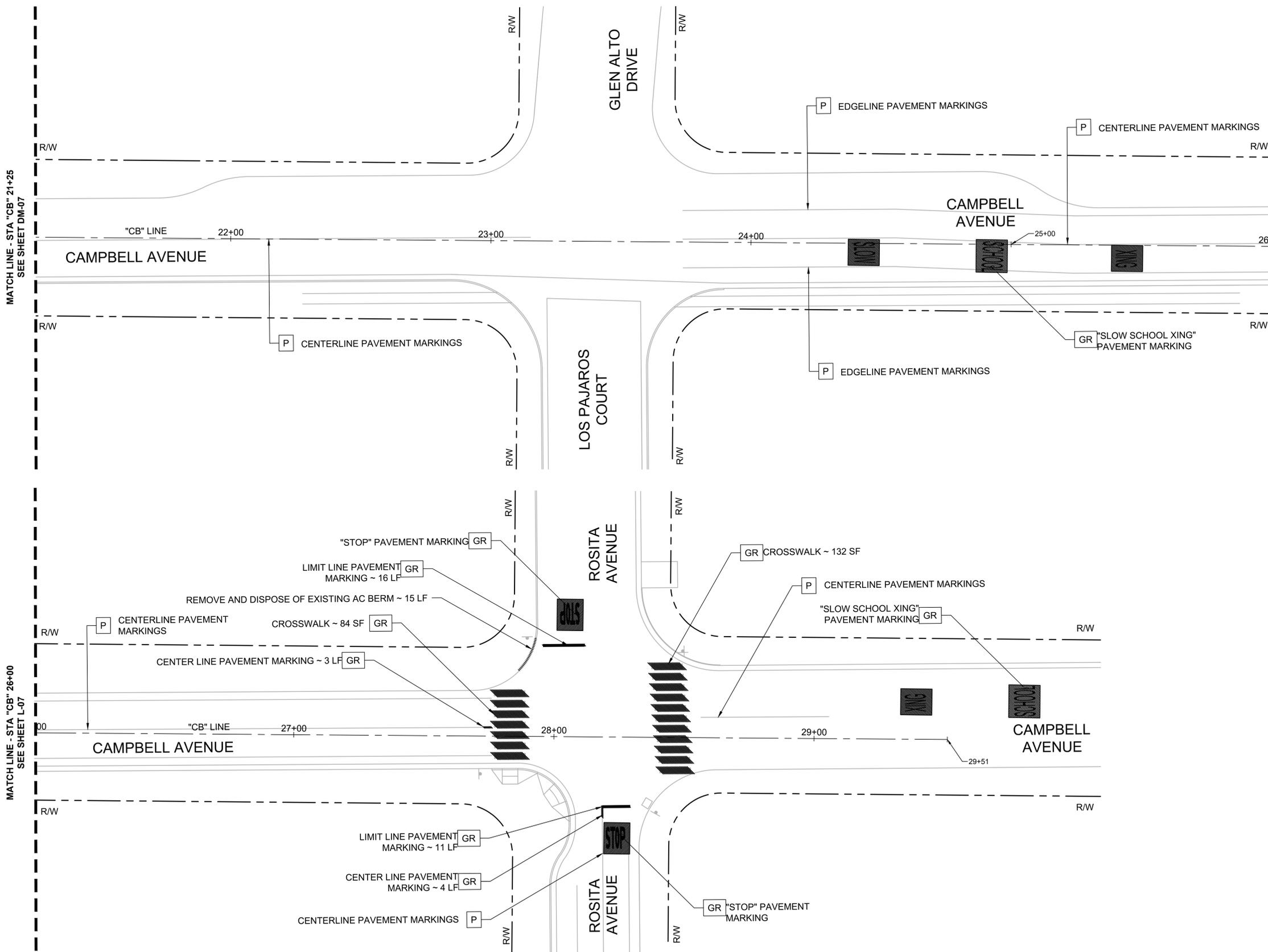


**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

DEMOLITION  
PLANS

SHEET NO.

**DM-08**  
**11** OF **29**



- NOTES:**
- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-1.
  - FOR LAYOUT, GRADING & DRAINAGE DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
  - FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02.

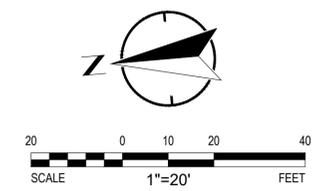
**DEMOLITION LEGEND:**  
 LEGEND FOR THIS SHEET ONLY.  
 LEGEND ITEMS DO NOT NECESSARILY APPEAR ON EVERY SHEET.

- GR REMOVE EXISTING STRIPING BY GRINDING. ALL DEBRIS SHALL BE REMOVED BY THE END OF EACH WORKDAY.
- P PROTECT IN PLACE EX. STRIPING AND PAVEMENT MARKINGS

MATCH LINE - STA "CB" 21+25  
SEE SHEET DM-07

MATCH LINE - STA "CB" 26+00  
SEE BELOW - THIS SHEET

MATCH LINE - STA "CB" 26+00  
SEE SHEET L-07



DESIGNED: JW  
 REVIEWED: SF  
 DRAWN: JP\_EK  
 DATE: 5/18/2020  
 1"=20'  
 SCALE

REVISIONS		
NO	DATE	ITEM



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**CUESTA DRIVE  
 TRAFFIC CALMING  
 PROJECT No. TS0102220**  
 Los Altos, California

DEMOLITION  
 PLANS

SHEET NO.  
**DM-09**  
 12 OF 29

**NOTES:**

- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-01.
- FOR DEMOLITION, GRADING & DRAINAGE DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
- FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02.

**CONSTRUCTION NOTES:**

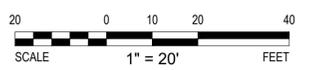
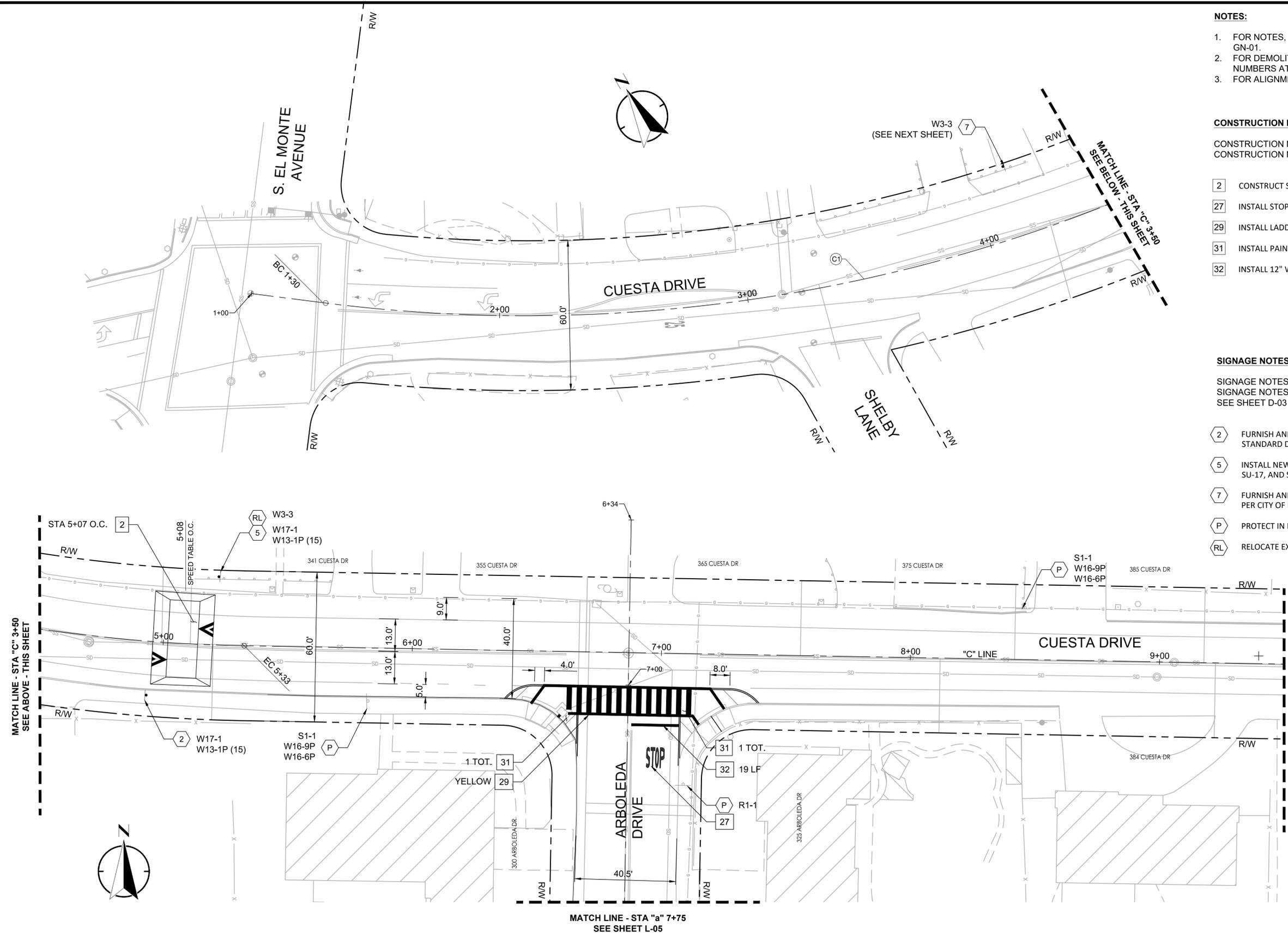
CONSTRUCTION NOTES FOR THIS SHEET ONLY.  
CONSTRUCTION NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET.

- 2 CONSTRUCT SPEED TABLE PER DETAIL 2, SHEET D-01
- 27 INSTALL STOP LANE MARKING PER CALTRANS STD. PLAN A24D
- 29 INSTALL LADDER STYLE HIGH VISIBILITY CROSSWALK PER DETAIL 1, SHEET D-02
- 31 INSTALL PAINTED CURB EXTENSION PER DETAIL 2, SHEET D-02
- 32 INSTALL 12" WHITE LIMIT LINE

**SIGNAGE NOTES:**

SIGNAGE NOTES FOR THIS SHEET ONLY.  
SIGNAGE NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET.  
SEE SHEET D-03 FOR SIGNING SCHEDULES.

- 2 FURNISH AND INSTALL NEW SINGLE SIDED SIGN PER CITY OF LOS ALTOS STANDARD DETAIL SU-17, AND SHEET D-05
- 5 INSTALL NEW SIGN ON EXISTING POST PER CITY OF LOS ALTOS STANDARD DETAIL SU-17, AND SHEET D-05
- 7 FURNISH AND INSTALL NEW SIGN POST AND INSTALL RELOCATED EXISTING SIGN, PER CITY OF LOS ALTOS STANDARD DETAIL SU-17, AND SHEET D-05
- P PROTECT IN PLACE EXISTING SIGN(S) AND POST
- RL RELOCATE EXISTING SIGN, PROTECT IN PLACE EXISTING POST



DESIGNED: JW	REVISIONS
REVIEWED: SF	NO DATE ITEM
DRAWN: JP_EK	
DATE: 5/18/2020	
1"=20' SCALE	



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OAKLAND, CA 94607  
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**CUESTA DRIVE**  
**TRAFFIC CALMING**  
**PROJECT No. TS0102220**  
 Los Altos, California

SHEET NO.  
**L-01**  
**13 OF 29**

**LAYOUT PLANS**

**NOTES:**

- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-01.
- FOR DEMOLITION, GRADING & DRAINAGE DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
- FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02.
- EXISTING STRIPING WITHIN LIMITS OF MICROSURFACING TREATMENT SHALL BE REMOVED THROUGH THE MICROSURFACING PROCESS.
- MICROSURFACING PAVEMENT TREATMENT (AND PAVEMENT PREPARATION PROCESSES) SHALL CONFORM TO THE LIMITS SHOWN, AND SHALL SPAN EDGE OF PAVEMENT TO EDGE OF PAVEMENT (OR LIP OF GUTTER, WHERE APPLICABLE) WITHIN THOSE LIMITS.
- MICROSURFACING LIMITS TO CONFORM TO DRIVEWAY LIMITS.
- SEE SHEET G-01 FOR GRADING AND DRAINAGE INFORMATION AT THIS LOCATION

**CONSTRUCTION NOTES:**

CONSTRUCTION NOTES FOR THIS SHEET ONLY.  
CONSTRUCTION NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET.

- 2 CONSTRUCT SPEED TABLE PER DETAIL 2, SHEET D-01
- 4 FURNISH AND INSTALL 36" IN DEPTH CAST IRON DETECTABLE WARNING SURFACE, PER CALTRANS STD. PLAN A88A
- 7 INSTALL A.C. SECTION PER DETAIL 3, SHEET D-02
- 8 INSTALL DG SECTION PER DETAIL 3, SHEET D-02
- 9 INSTALL PCC SIDEWALK SECTION PER CITY OF LOS ALTOS STANDARD DETAIL SU-8, AND SHEET D-04
- 11 CONSTRUCT VALLEY GUTTER PER DETAIL 4, SHEET D-02
- 12 RECONSTRUCT EXISTING DRIVEWAY PER DETAIL 3, SHEET D-01
- 15 PROTECT IN PLACE EXISTING STORM DRAIN INLET, ADJUST INLET APRON TO GRADE, SEE GRADING SHEETS FOR FURTHER DETAILS
- 17 INSTALL CURB RAMP PER CALTRANS STD PLAN A88B, CASE CH DETAIL, SEE GRADING SHEETS FOR FURTHER DETAILS
- 27 INSTALL STOP LANE MARKING PER CALTRANS STD. PLAN A24D
- 29 INSTALL LADDER STYLE HIGH VISIBILITY CROSSWALK PER DETAIL 1, SHEET D-02
- 32 INSTALL 12" WHITE LIMIT LINE
- D## INSTALL PAVEMENT MARKING PER CALTRANS STD PLANS A20A - A20D, PER DETAIL ##

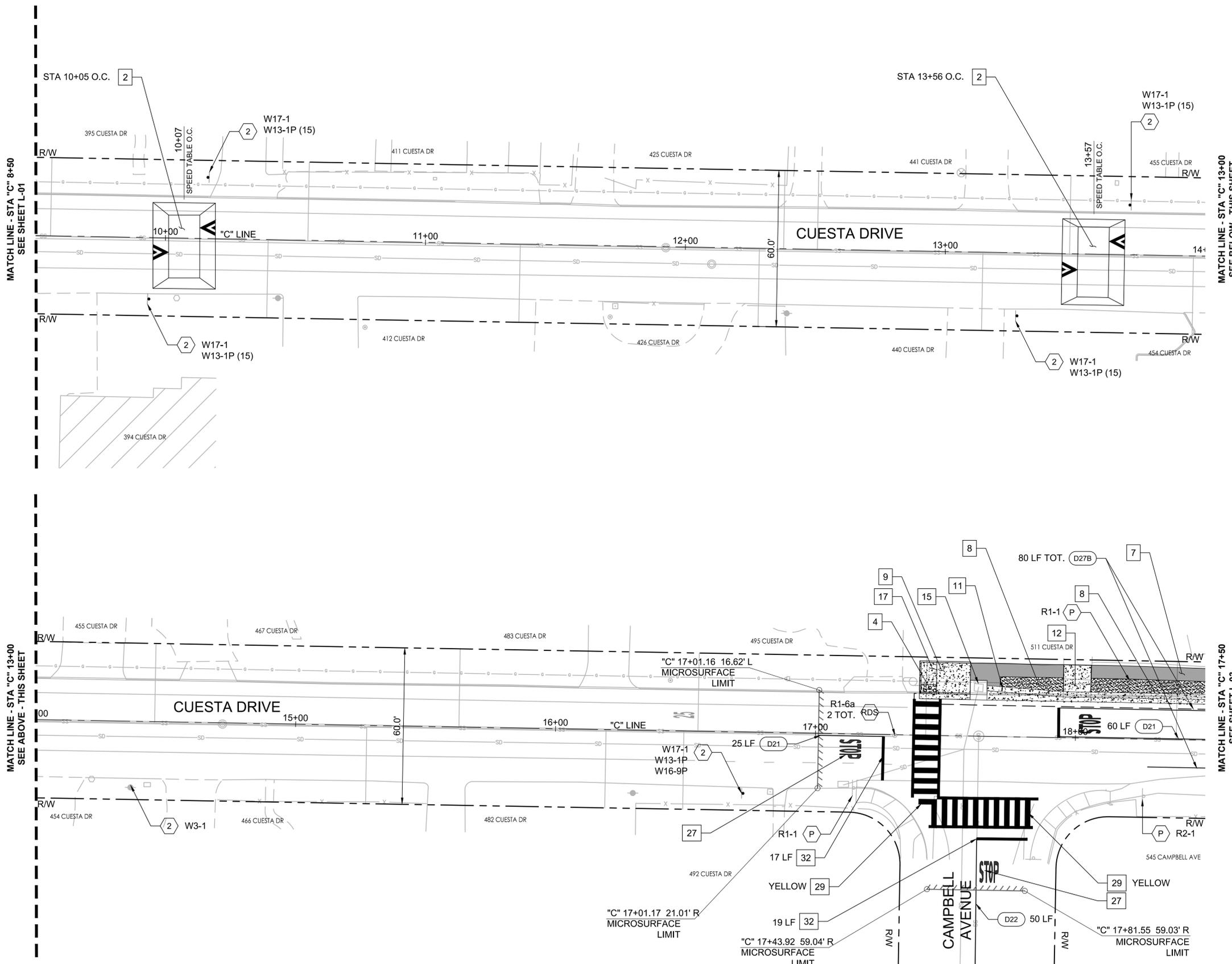
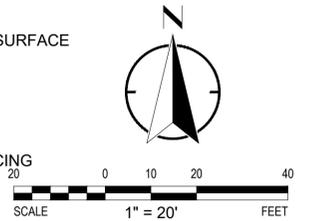
**SIGNAGE NOTES:**

SIGNAGE NOTES FOR THIS SHEET ONLY.  
SIGNAGE NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET.  
SEE SHEET D-03 FOR SIGNING SCHEDULES.

- 2 FURNISH AND INSTALL NEW SINGLE SIDED SIGN PER CITY OF LOS ALTOS STANDARD DETAIL SU-17, AND SHEET D-05
- 3 FURNISH AND INSTALL NEW STOP SIGN OR STOP PLAQUE ON EXISTING SIGN POST PER CITY OF LOS ALTOS STANDARD DETAIL SU-17, AND SHEET D-05
- P PROTECT IN PLACE EXISTING SIGN(S) AND POST
- RDS REMOVE AND DISPOSE OF SIGN AND POST

**LEGEND:**

- PCC SECTION
- DETECTABLE WARNING SURFACE
- D.G. SECTION
- ASPHALT SECTION
- LIMITS OF MICROSURFACING
- SAWCUT

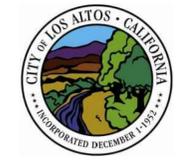


DESIGNED: JW  
REVIEWED: SF  
DRAWN: JP\_EK  
DATE: 5/18/2020  
1"=20'  
SCALE

NO	DATE	ITEM

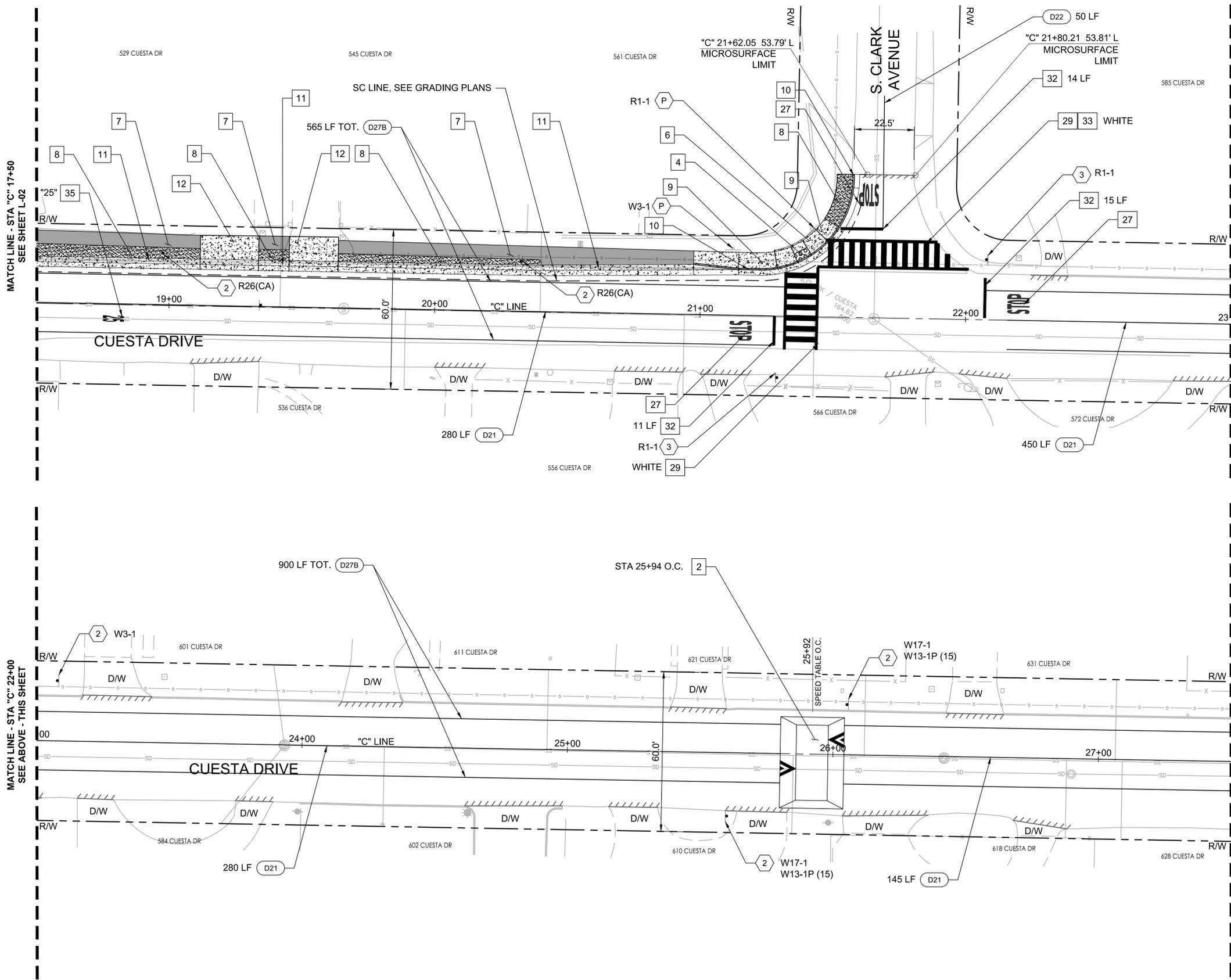


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**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

SHEET NO.  
**L-02**  
14 OF 29



**NOTES:**

- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-01.
- FOR DEMOLITION, GRADING & DRAINAGE DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
- FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02.
- EXISTING STRIPING WITHIN LIMITS OF MICROSURFACING TREATMENT SHALL BE REMOVED THROUGH THE MICROSURFACING PROCESS.
- MICROSURFACING PAVEMENT TREATMENT (AND PAVEMENT PREPARATION PROCESSES) SHALL CONFORM TO THE LIMITS SHOWN, AND SHALL SPAN EDGE OF PAVEMENT TO EDGE OF PAVEMENT (OR LIP OF GUTTER, WHERE APPLICABLE) WITHIN THOSE LIMITS.
- MICROSURFACING LIMITS TO CONFORM TO DRIVEWAY LIMITS.
- SEE SHEET G-02 FOR GRADING AND DRAINAGE INFORMATION AT THIS LOCATION

**CONSTRUCTION NOTES:**

CONSTRUCTION NOTES FOR THIS SHEET ONLY.  
CONSTRUCTION NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET.

- 2 CONSTRUCT SPEED TABLE PER DETAIL 2, SHEET D-01
- 4 FURNISH AND INSTALL 36" IN DEPTH CAST IRON DETECTABLE WARNING SURFACE, PER CALTRANS STD. PLAN A88A
- 6 INSTALL CURB RAMP PER CALTRANS STD. PLAN A88A, CASE C DETAIL, SEE GRADING SHEETS FOR FURTHER DETAILS
- 7 INSTALL A.C. SECTION PER DETAIL 3, SHEET D-02
- 8 INSTALL DG SECTION PER DETAIL 3, SHEET D-02
- 9 INSTALL PCC SIDEWALK SECTION PER CITY OF LOS ALTOS STD. DETAIL SU-8, AND SHEET D-04
- 10 INSTALL PCC VERTICAL CURB AND GUTTER PER CITY OF LOS ALTOS STAND DETAIL SU-6, AND SHEET D-04
- 11 CONSTRUCT VALLEY GUTTER PER DETAIL 4, SHEET D-02
- 12 RECONSTRUCT EXISTING DRIVEWAY PER DETAIL 3, SHEET D-01
- 27 INSTALL STOP LANE MARKING PER CALTRANS STD. PLAN A24D
- 29 INSTALL LADDER STYLE HIGH VISIBILITY CROSSWALK PER DETAIL 1, SHEET D-02
- 32 INSTALL 12" WHITE LIMIT LINE
- 33 INSTALL LADDER STYLE CROSSWALK WITHIN LIMITS OF EXISTING TRAVERSE CROSSWALK
- 35 REINSTALL EXISTING PAVEMENT MARKING IN SAME LOCATION
- D## INSTALL PAVEMENT MARKING PER CALTRANS STD PLANS A20A - A20D, PER DETAIL ##

**SIGNAGE NOTES:**

SIGNAGE NOTES FOR THIS SHEET ONLY.  
SIGNAGE NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET.  
SEE SHEET D-03 FOR SIGNING SCHEDULES.

- 2 FURNISH AND INSTALL NEW SINGLE SIDED SIGN PER CITY OF LOS ALTOS STANDARD DETAIL SU-17, AND SHEET D-05
- 3 FURNISH AND INSTALL NEW STOP SIGN OR STOP PLAQUE ON EXISTING SIGN POST PER CITY OF LOS ALTOS STANDARD DETAIL SU-17, AND SHEET D-05
- P PROTECT IN PLACE EXISTING SIGN(S) AND POST

**LEGEND:**

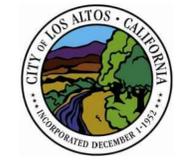
- PCC SECTION
- DETECTABLE WARNING SURFACE
- D.G. SECTION
- ASPHALT SECTION
- LIMITS OF MICROSURFACING
- SAWCUT

SCALE 1" = 20' FEET

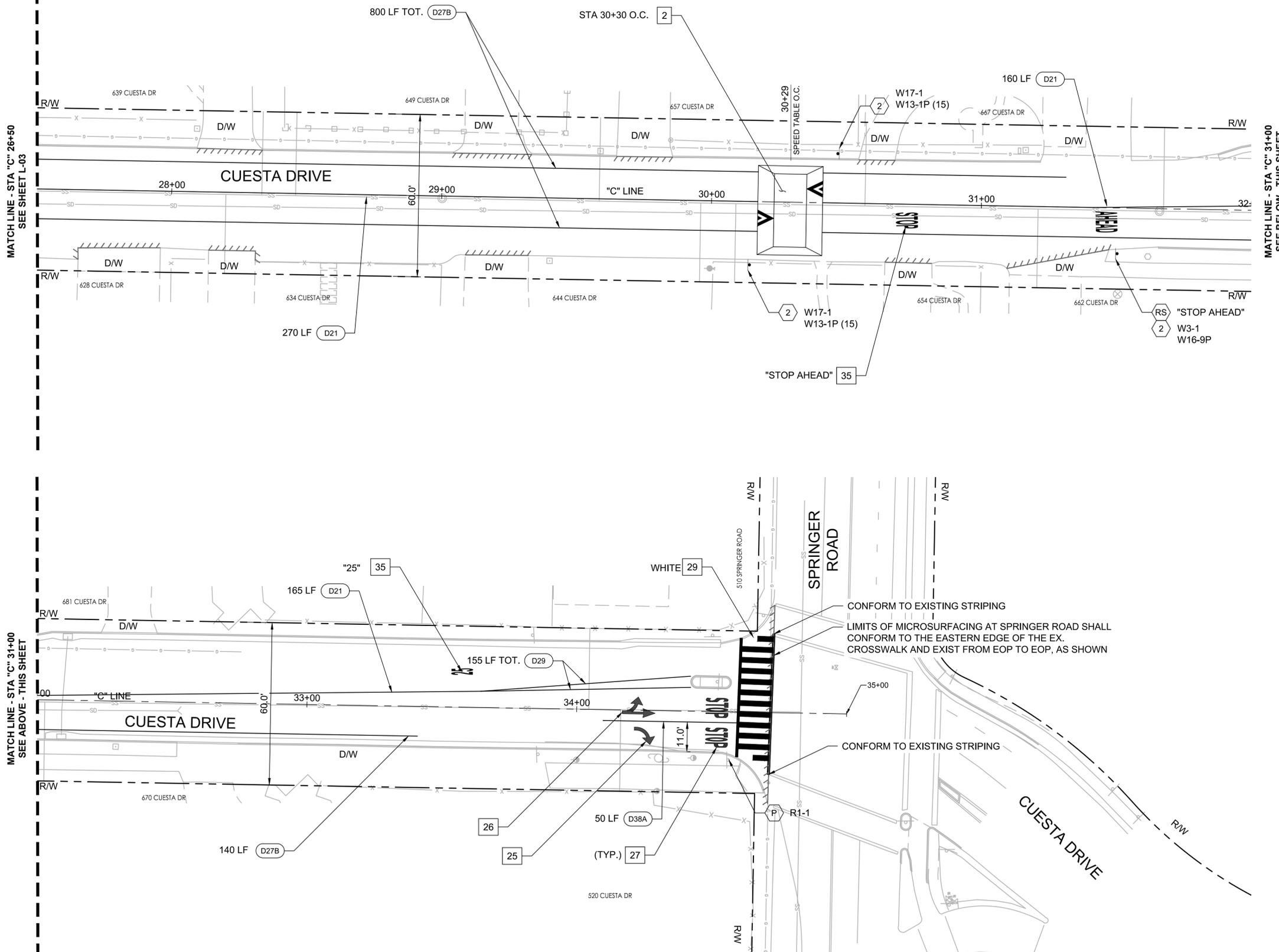
DESIGNED: JW	REVISIONS
REVIEWED: SF	NO DATE ITEM
DRAWN: JP_EK	
DATE: 5/18/2020	
1"=20' SCALE	



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p:510.540.5008



**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California



- NOTES:**
- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-01.
  - FOR DEMOLITION, GRADING & DRAINAGE DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
  - FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02.
  - EXISTING STRIPING WITHIN LIMITS OF MICROSURFACING TREATMENT SHALL BE REMOVED THROUGH THE MICROSURFACING PROCESS.
  - MICROSURFACING PAVEMENT TREATMENT (AND PAVEMENT PREPARATION PROCESSES) SHALL CONFORM TO THE LIMITS SHOWN, AND SHALL SPAN EDGE OF PAVEMENT TO EDGE OF PAVEMENT (OR LIP OF GUTTER, WHERE APPLICABLE) WITHIN THOSE LIMITS.
  - MICROSURFACING LIMITS TO CONFORM TO DRIVEWAY LIMITS.

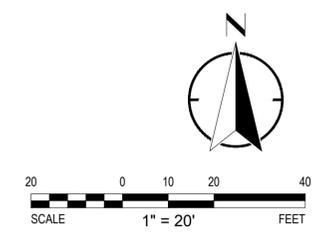
**CONSTRUCTION NOTES:**  
 CONSTRUCTION NOTES FOR THIS SHEET ONLY.  
 CONSTRUCTION NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET.

- 2 CONSTRUCT SPEED TABLE PER DETAIL 2, SHEET D-01
- 25 INSTALL TYPE IV (R) ARROW PAVEMENT MARKING PER CALTRANS STD. PLAN A24A
- 26 INSTALL TYPE VII (L) ARROW PAVEMENT MARKING PER CALTRANS STD. PLAN A24A
- 27 INSTALL STOP LANE MARKING PER CALTRANS STD. PLAN A24D
- 29 INSTALL LADDER STYLE HIGH VISIBILITY CROSSWALK PER DETAIL 1, SHEET D-02
- 35 REINSTALL EXISTING PAVEMENT MARKING IN SAME LOCATION
- D## INSTALL PAVEMENT MARKING PER CALTRANS STD PLANS A20A - A20D, PER DETAIL ##

**SIGNAGE NOTES:**  
 SIGNAGE NOTES FOR THIS SHEET ONLY.  
 SIGNAGE NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET.  
 SEE SHEET D-03 FOR SIGNING SCHEDULES.

- 2 FURNISH AND INSTALL NEW SINGLE SIDED SIGN PER CITY OF LOS ALTOS STANDARD DETAIL SU-17, AND SHEET D-05
- P PROTECT IN PLACE EXISTING SIGN(S) AND POST
- RS REMOVE AND SALVAGE EXISTING SIGN AND POST

**LEGEND:**  
 LIMITS OF MICROSURFACING



DESIGNED: JW  
 REVIEWED: SF  
 DRAWN: JP\_EK  
 DATE: 5/18/2020  
 1"=20'  
 SCALE

NO	DATE	ITEM



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 p:510.540.5008



**CUESTA DRIVE  
 TRAFFIC CALMING  
 PROJECT No. TS0102220**  
 Los Altos, California

LAYOUT PLANS  
 SHEET NO. **L-04**  
**16** OF **29**

**NOTES:**

- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-01.
- FOR DEMOLITION, GRADING & DRAINAGE DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
- FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02.

**CONSTRUCTION NOTES:**

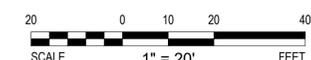
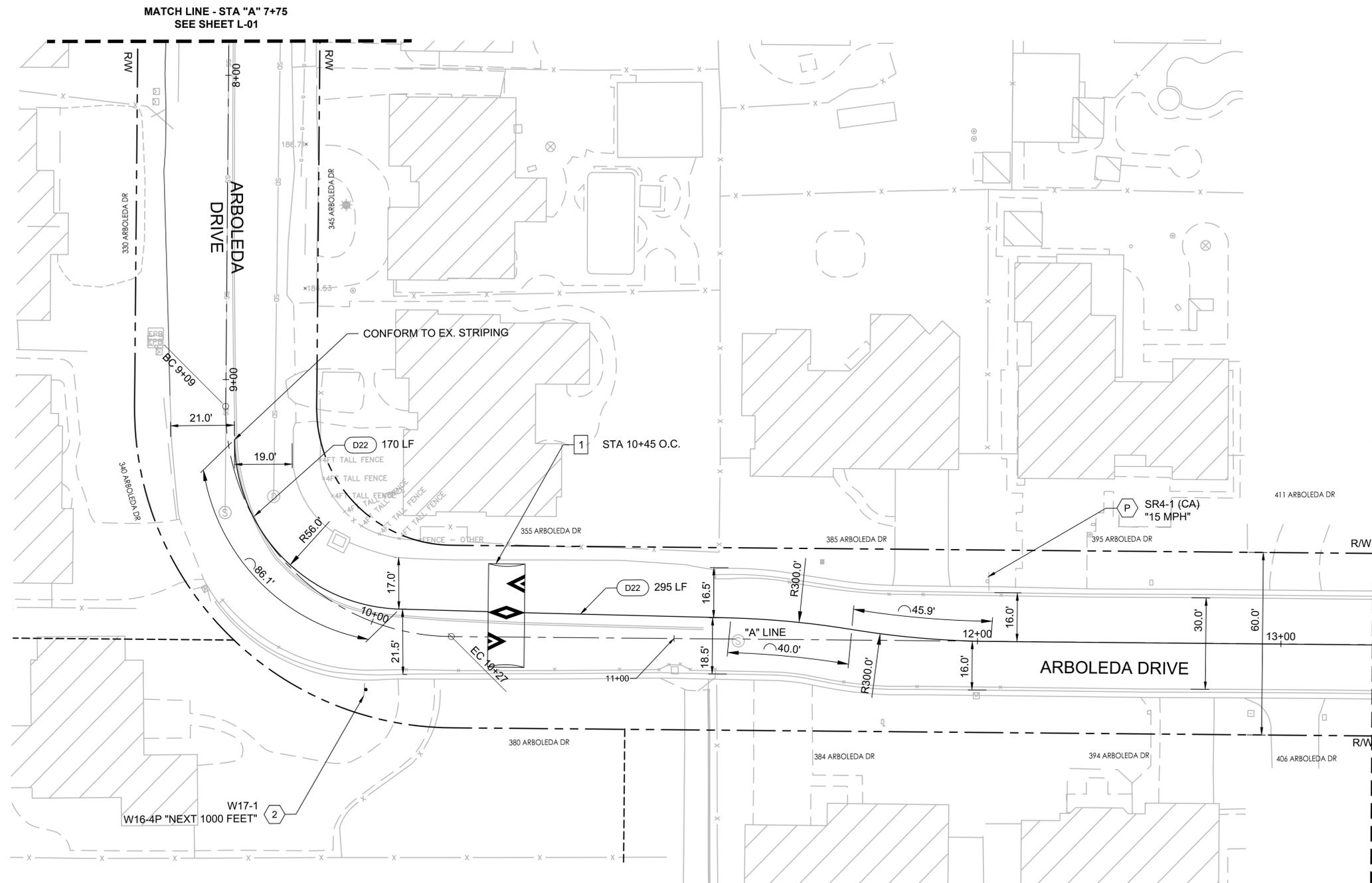
CONSTRUCTION NOTES FOR THIS SHEET ONLY.  
CONSTRUCTION NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET.

- 1 CONSTRUCT SPEED HUMP PER DETAIL 1, SHEET D-01
- D## INSTALL PAVEMENT MARKING PER CALTRANS STD PLANS A20A - A20D, PER DETAIL ##

**SIGNAGE NOTES:**

SIGNAGE NOTES FOR THIS SHEET ONLY.  
SIGNAGE NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET.  
SEE SHEET D-03 FOR SIGNING SCHEDULES.

- 2 FURNISH AND INSTALL NEW SINGLE SIDED SIGN PER CITY OF LOS ALTOS STANDARD DETAIL SU-17, AND SHEET D-05
- 6 FURNISH AND INSTALL NEW DOUBLE SIDED SIGN PER CITY OF LOS ALTOS STANDARD DETAIL SU-17, AND SHEET D-05
- P PROTECT IN PLACE EXISTING SIGN(S) AND POST



DESIGNED: JW	REVISIONS
REVIEWED: SF	NO DATE ITEM
DRAWN: JP_EK	
DATE: 5/18/2020	
1"=20' SCALE	

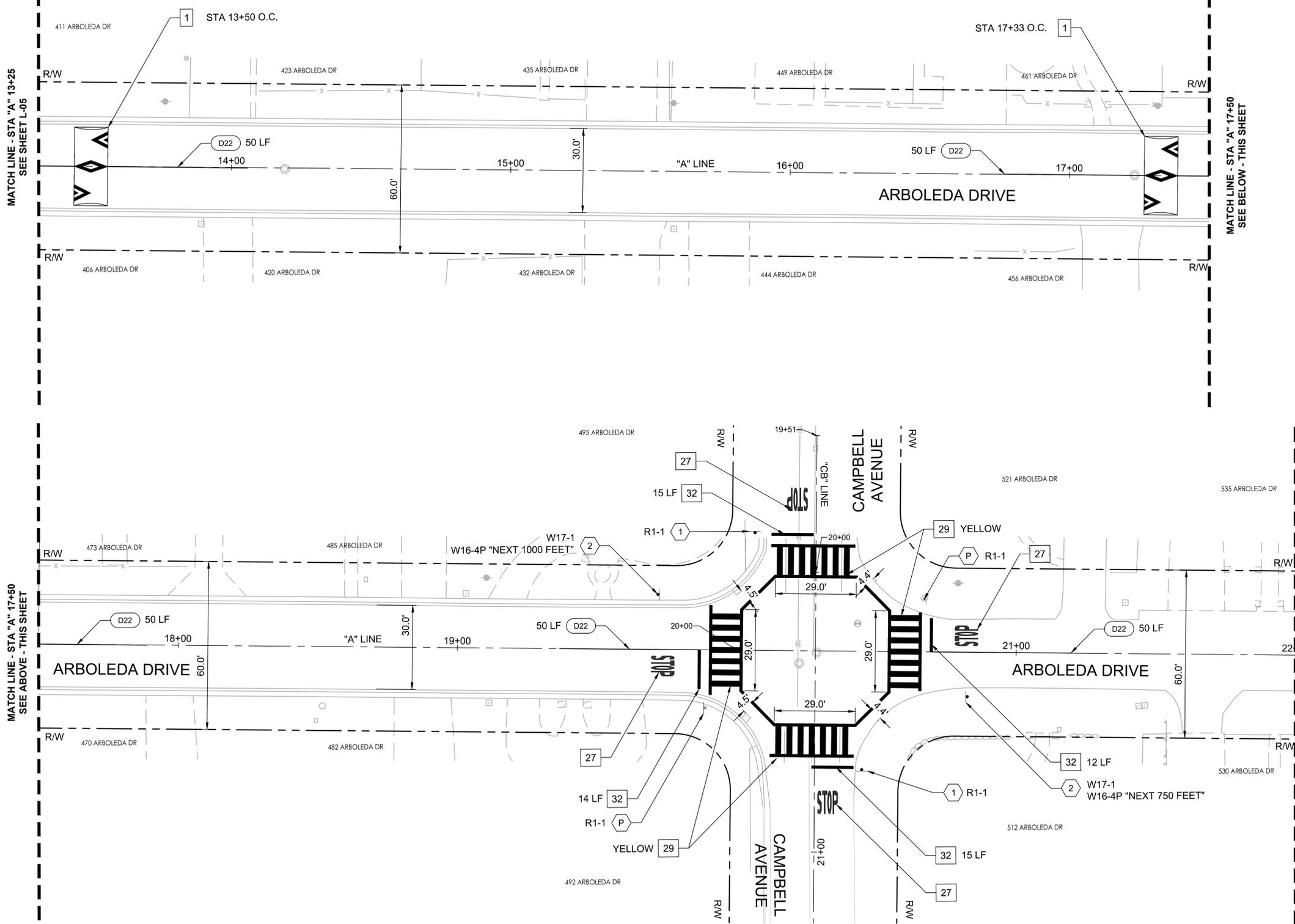


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OAKLAND, CA 94607  
p:510.540.5008



**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

LAYOUT PLANS  
SHEET NO. **L-05**  
**17** OF **29**



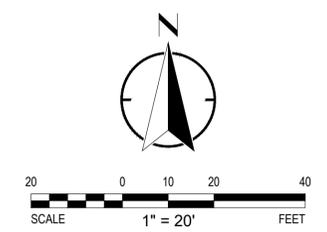
- NOTES:**
- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-01.
  - FOR DEMOLITION, GRADING & DRAINAGE DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
  - FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02.

**CONSTRUCTION NOTES:**  
 CONSTRUCTION NOTES FOR THIS SHEET ONLY.  
 CONSTRUCTION NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET.

- 1 CONSTRUCT SPEED HUMP PER DETAIL 1, SHEET D-01
- 27 INSTALL STOP LANE MARKING PER CALTRANS STD. PLAN A24D
- 29 INSTALL LADDER STYLE HIGH VISIBILITY CROSSWALK PER DETAIL 1, SHEET D-02
- 32 INSTALL 12" WHITE LIMIT LINE
- D## INSTALL PAVEMENT MARKING PER CALTRANS STD PLANS A20A - A20D, PER DETAIL ##

**SIGNAGE NOTES:**  
 SIGNAGE NOTES FOR THIS SHEET ONLY.  
 SIGNAGE NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET.  
 SEE SHEET D-03 FOR SIGNING SCHEDULES.

- 1 FURNISH AND INSTALL NEW STOP SIGN PER CITY OF LOS ALTOS STANDARD DETAIL SU-17, AND SHEET D-05
- 2 FURNISH AND INSTALL NEW SINGLE SIDED SIGN PER CITY OF LOS ALTOS STANDARD DETAIL SU-17, AND SHEET D-05
- P PROTECT IN PLACE EXISTING SIGN(S) AND POST



DESIGNED: JW  
 REVIEWED: SF  
 DRAWN: JP\_EK  
 DATE: 5/18/2020  
 1"=20'  
 SCALE

REVISIONS		
NO	DATE	ITEM



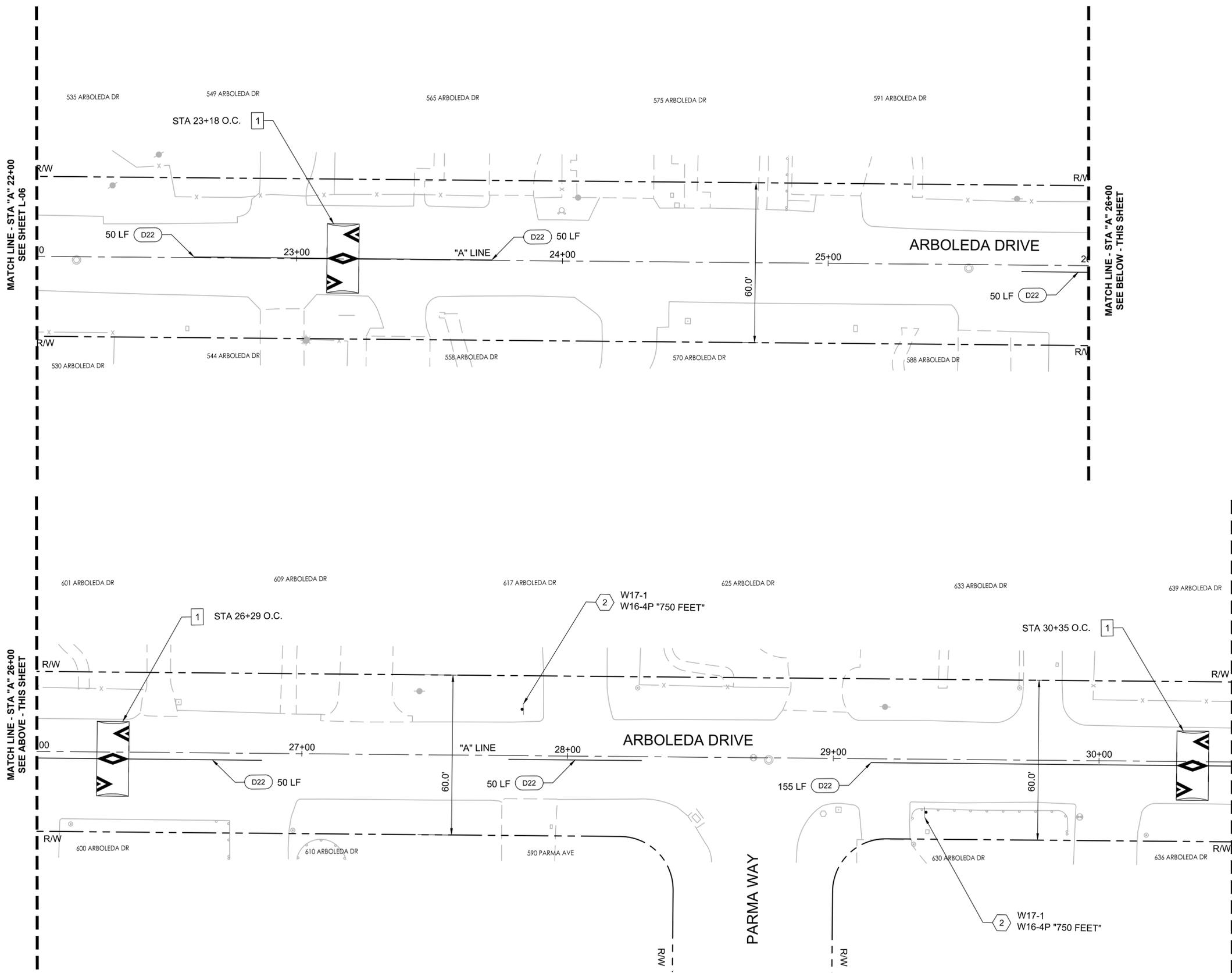
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**CUESTA DRIVE  
 TRAFFIC CALMING  
 PROJECT No. TS0102220**  
 Los Altos, California

LAYOUT PLANS

SHEET NO.  
**L-06**  
 18 OF 29



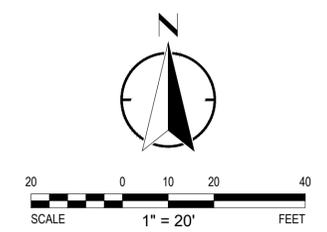
- NOTES:**
- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-01.
  - FOR DEMOLITION, GRADING & DRAINAGE DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
  - FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02.

**CONSTRUCTION NOTES:**  
 CONSTRUCTION NOTES FOR THIS SHEET ONLY.  
 CONSTRUCTION NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET.

- 1 CONSTRUCT SPEED HUMP PER DETAIL 1, SHEET D-01
- D## INSTALL PAVEMENT MARKING PER CALTRANS STD PLANS A20A - A20D, PER DETAIL ##

**SIGNAGE NOTES:**  
 SIGNAGE NOTES FOR THIS SHEET ONLY.  
 SIGNAGE NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET.  
 SEE SHEET D-03 FOR SIGNING SCHEDULES.

- 2 FURNISH AND INSTALL NEW SINGLE SIDED SIGN PER CITY OF LOS ALTOS STANDARD DETAIL SU-17, AND SHEET D-05



DESIGNED: JW  
 REVIEWED: SF  
 DRAWN: JP\_EK  
 DATE: 5/18/2020  
 1"=20'  
 SCALE

REVISIONS		
NO	DATE	ITEM



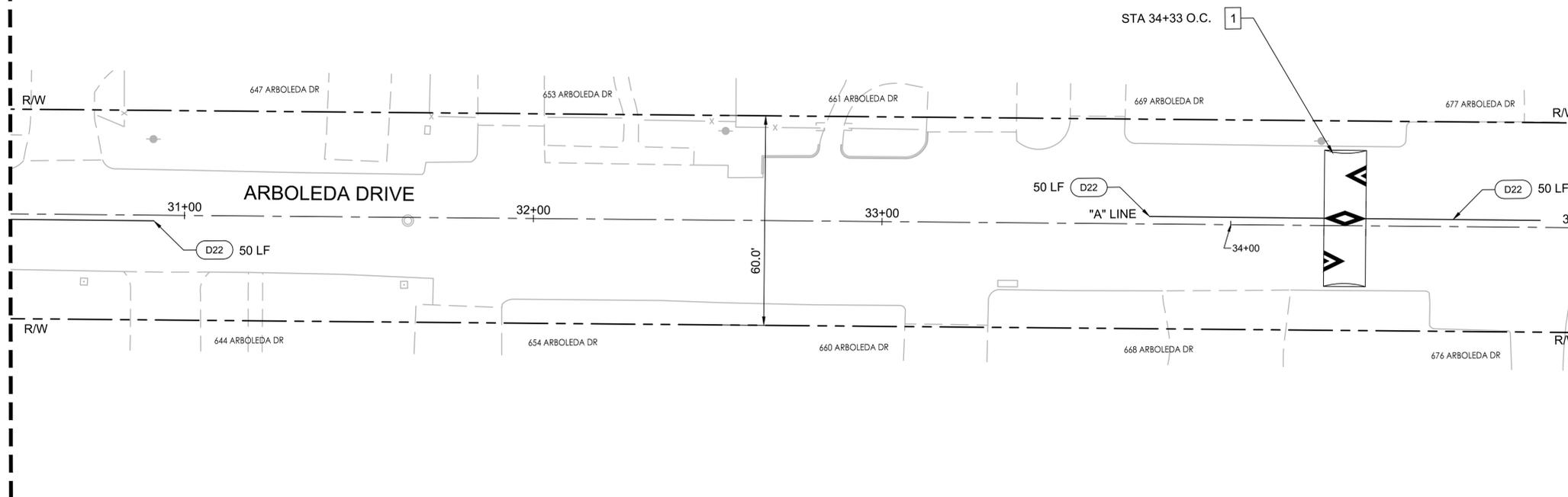
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**CUESTA DRIVE  
 TRAFFIC CALMING  
 PROJECT No. TS0102220**  
 Los Altos, California

LAYOUT PLANS  
 SHEET NO.  
**L-07**  
 19 OF 29

MATCH LINE - STA "A" 30+50  
SEE SHEET L-07



MATCH LINE - STA "A" 35+00  
SEE BELOW - THIS SHEET

- NOTES:**
- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-01.
  - FOR DEMOLITION, GRADING & DRAINAGE DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
  - FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02.

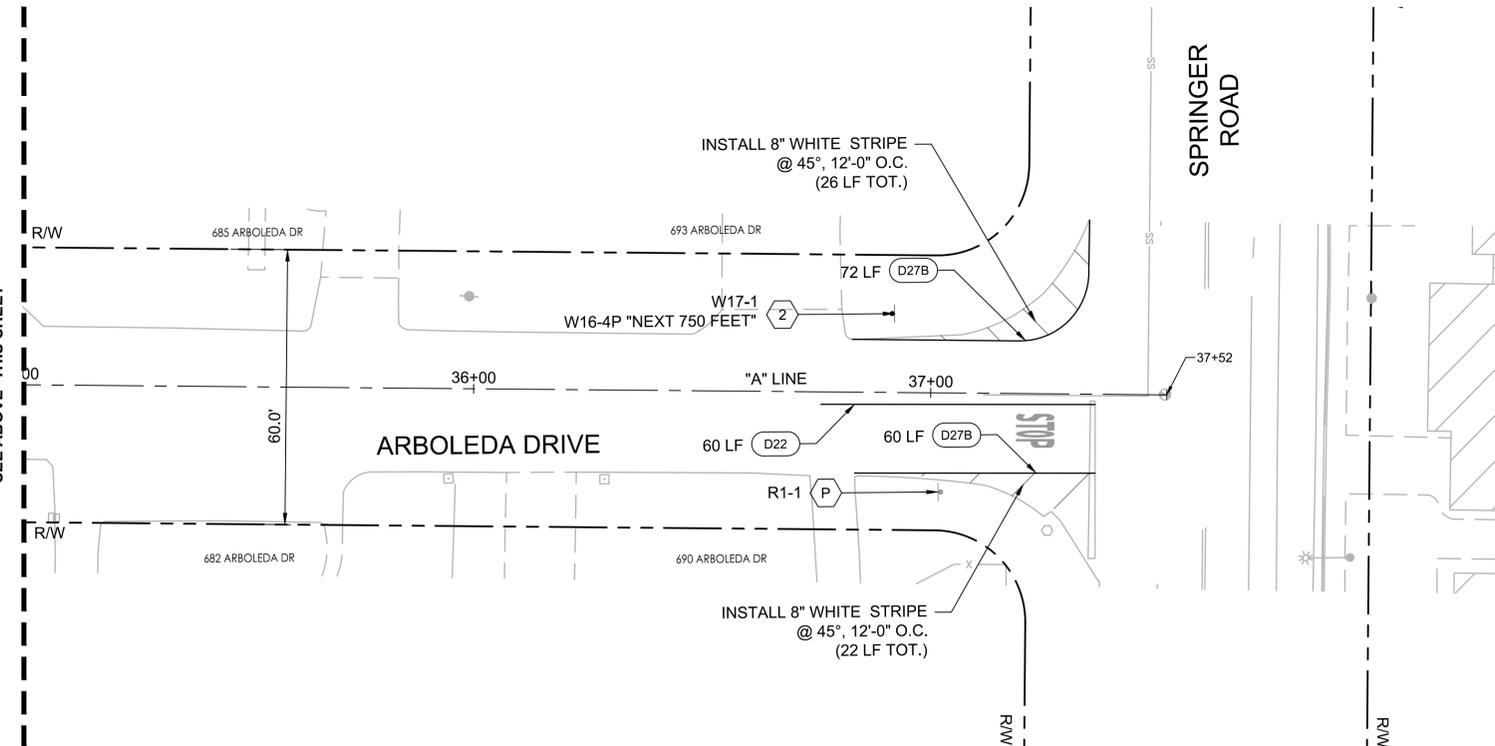
**CONSTRUCTION NOTES:**  
CONSTRUCTION NOTES FOR THIS SHEET ONLY.  
CONSTRUCTION NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET.

- 1 CONSTRUCT SPEED HUMP PER DETAIL 1, SHEET D-01
- D## INSTALL PAVEMENT MARKING PER CALTRANS STD PLANS A20A - A20D, PER DETAIL ##

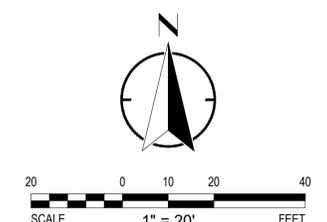
**SIGNAGE NOTES:**  
SIGNAGE NOTES FOR THIS SHEET ONLY.  
SIGNAGE NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET.  
SEE SHEET D-03 FOR SIGNING SCHEDULES.

- 2 FURNISH AND INSTALL NEW SINGLE SIDED SIGN PER CITY OF LOS ALTOS STANDARD DETAIL SU-17, AND SHEET D-05
- P PROTECT IN PLACE EXISTING SIGN(S) AND POST

MATCH LINE - STA "A" 35+00  
SEE ABOVE - THIS SHEET



SPRINGER ROAD

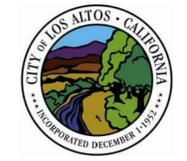


DESIGNED: JW  
REVIEWED: SF  
DRAWN: JP\_EK  
DATE: 5/18/2020  
1"=20'  
SCALE

REVISIONS		
NO	DATE	ITEM

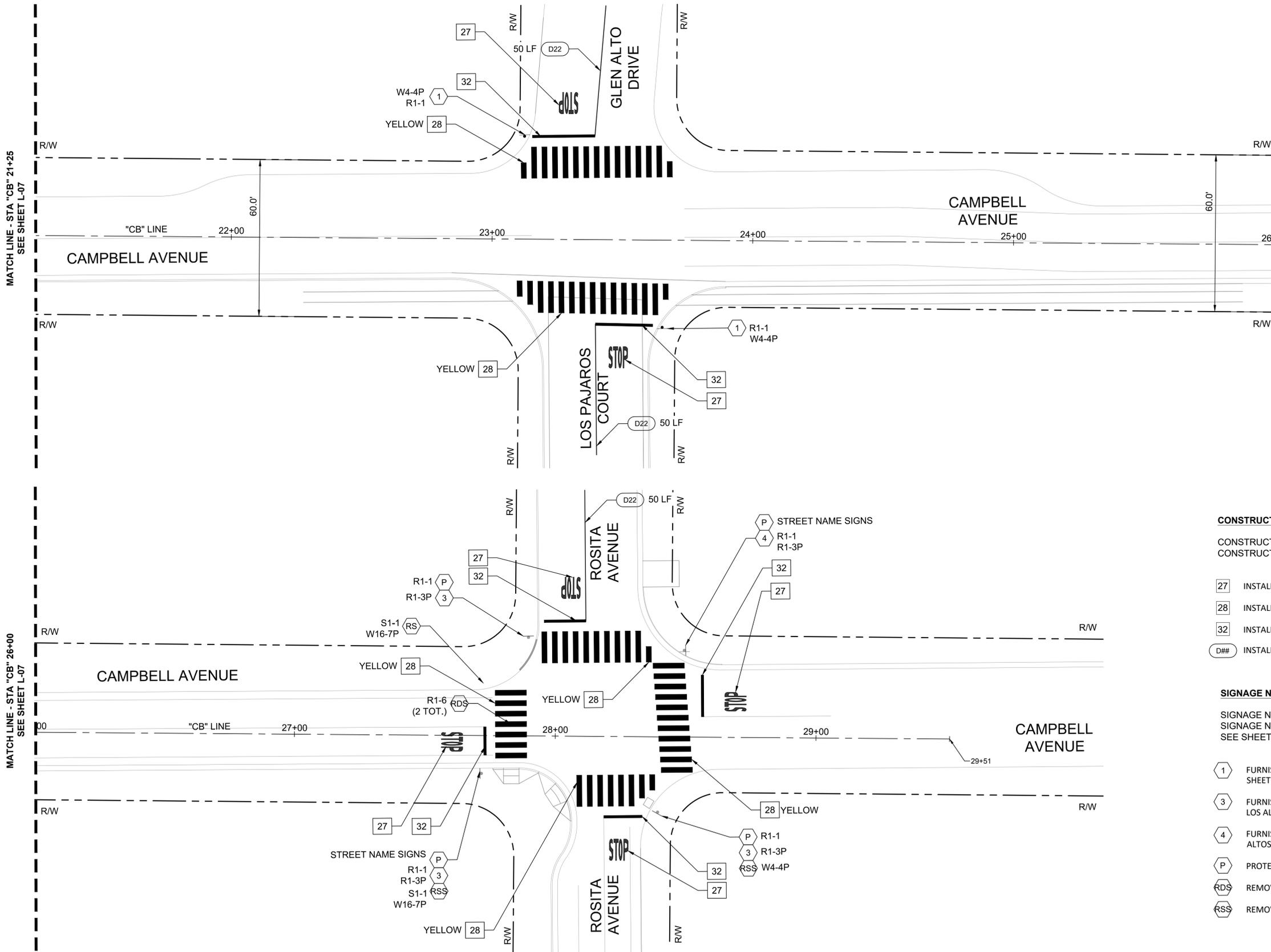


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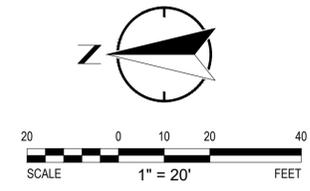


**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

LAYOUT PLANS  
SHEET NO. **L-08**  
**20** OF **29**



- NOTES:**
- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-01.
  - FOR DEMOLITION, GRADING & DRAINAGE DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
  - FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02.



**CONSTRUCTION NOTES:**  
 CONSTRUCTION NOTES FOR THIS SHEET ONLY.  
 CONSTRUCTION NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET.

- 27 INSTALL STOP LANE MARKING PER CALTRANS STD. PLAN A24D
- 28 INSTALL CONTINENTAL STYLE HIGH VISIBILITY CROSSWALK PER DETAIL 1, SHEET D-02
- 32 INSTALL 12" WHITE LIMIT LINE
- D## INSTALL PAVEMENT MARKING PER CALTRANS STD PLANS A20A - A20D, PER DETAIL ##

**SIGNAGE NOTES:**  
 SIGNAGE NOTES FOR THIS SHEET ONLY.  
 SIGNAGE NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET.  
 SEE SHEET D-03 FOR SIGNING SCHEDULES.

- 1 FURNISH AND INSTALL NEW STOP SIGN PER CITY OF LOS ALTOS STANDARD DETAIL SU-17, AND SHEET D-05
- 3 FURNISH AND INSTALL NEW STOP SIGN OR STOP PLAQUE ON EXISTING SIGN POST PER CITY OF LOS ALTOS STANDARD DETAIL SU-17, AND SHEET D-05
- 4 FURNISH AND INSTALL NEW STOP SIGN ON EXISTING STREET SIGN POST PER CITY OF LOS ALTOS STANDARD DETAIL SU-16, AND SHEET D-05
- P PROTECT IN PLACE EXISTING SIGN(S) AND POST
- RDS REMOVE AND DISPOSE OF SIGN AND POST
- RSS REMOVE AND SALVAGE EXISTING SIGN, PROTECT IN PLACE EXISTING POST

DESIGNED: JW  
 REVIEWED: SF  
 DRAWN: JP\_EK  
 DATE: 5/18/2020  
 1"=20'  
 SCALE

REVISIONS		
NO	DATE	ITEM



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**CUESTA DRIVE  
 TRAFFIC CALMING  
 PROJECT No. TS0102220**  
 Los Altos, California

LAYOUT PLANS

SHEET NO.  
**L-09**  
 21 OF 29

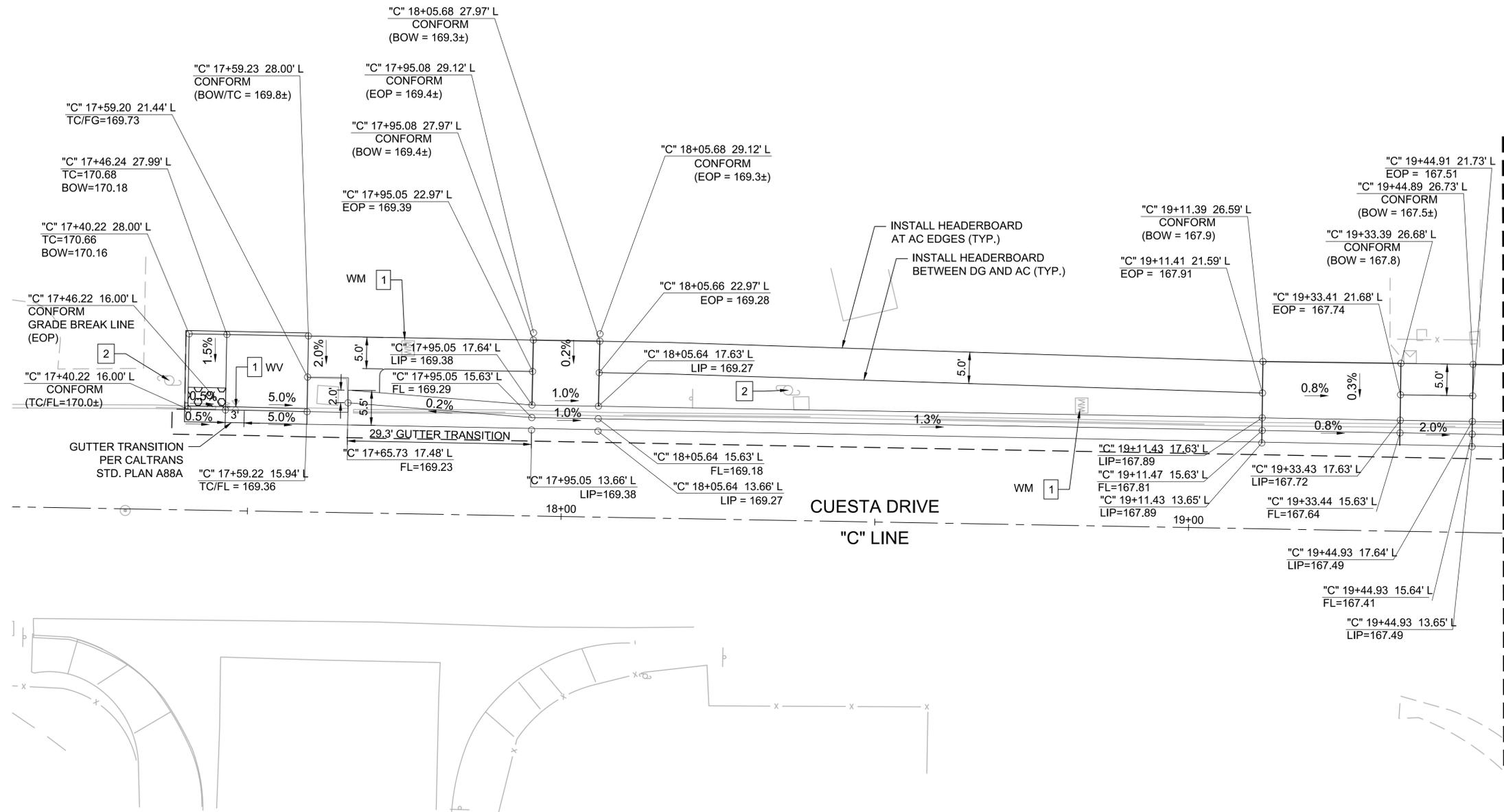
**NOTES:**

- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-1.
- FOR DEMOLITION & LAYOUT DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
- FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02.
- EXISTING STRIPING WITHIN LIMITS OF MICROSURFACING TREATMENT SHALL BE REMOVED THROUGH THE MICROSURFACING PROCESS.
- MICROSURFACING PAVEMENT TREATMENT (AND PAVEMENT PREPARATION PROCESSES) SHALL CONFORM TO THE LIMITS SHOWN, AND SHALL SPAN EDGE OF PAVEMENT TO EDGE OF PAVEMENT (OR LIP OF GUTTER, WHERE APPLICABLE) WITHIN THOSE LIMITS.
- MICROSURFACING LIMITS TO CONFORM TO DRIVEWAY LIMITS.

**UTILITY NOTES:**

UTILITY NOTES FOR THIS SHEET ONLY  
UTILITY NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET

- ADJUST TO GRADE EX. UTILITY STRUCTURE (PER PANS)
- PROTECT IN PLACE EX. UTILITY POLE.

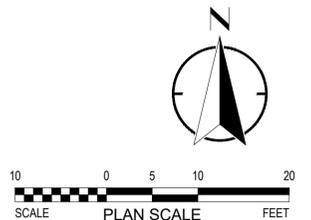


MATCH LINE - STA "C" 19+50  
SEE SHEET G-02

**TEMPORARY EROSION CONTROL NOTE:**

CONTRACTOR SHALL PROVIDE TEMPORARY STORM WATER POLLUTION CONTROL DURING CONSTRUCTION PER SANTA CLARA VALLEY URBAN RUNOFF POLLUTION PREVENTION PROGRAM CONSTRUCTION BEST MANAGEMENT PRACTICES (SEE SHEET D-06). PROVIDE DRAINAGE INLET PROTECTION AT STORM DRAINS LOCATED WITHIN 500' OF PROJECT EXTENTS PER CALTRANS STD. PLAN T62. CONTRACTOR TO VERIFY ALL STORM WATER DRAIN INLET LOCATIONS

CAMBELL AVENUE

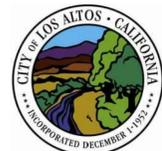


DESIGNED: JW  
REVIEWED: SF  
DRAWN: JP\_EK  
DATE: 5/18/2020  
1"=20'  
SCALE

NO	DATE	ITEM



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OAKLAND, CA 94607  
p:510.540.5008



**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

GRADING AND  
DRAINAGE PLANS

SHEET NO.

**G-01**  
**22** OF **29**

- NOTES:**
- FOR NOTES, LEGEND AND ABBREVIATIONS SEE SHEET GN-1.
  - FOR DEMOLITION & LAYOUT DRAWING NUMBERS AT THIS LOCATION, SEE SHEET T-1, KEY MAP.
  - FOR ALIGNMENT CURVE AND LINE DATA, SEE SHEET GN-02.
  - EXISTING STRIPING WITHIN LIMITS OF MICROSURFACING TREATMENT SHALL BE REMOVED THROUGH THE MICROSURFACING PROCESS.
  - MICROSURFACING PAVEMENT TREATMENT (AND PAVEMENT PREPARATION PROCESSES) SHALL CONFORM TO THE LIMITS SHOWN, AND SHALL SPAN EDGE OF PAVEMENT TO EDGE OF PAVEMENT (OR LIP OF GUTTER, WHERE APPLICABLE) WITHIN THOSE LIMITS.
  - MICROSURFACING LIMITS TO CONFORM TO DRIVEWAY LIMITS.

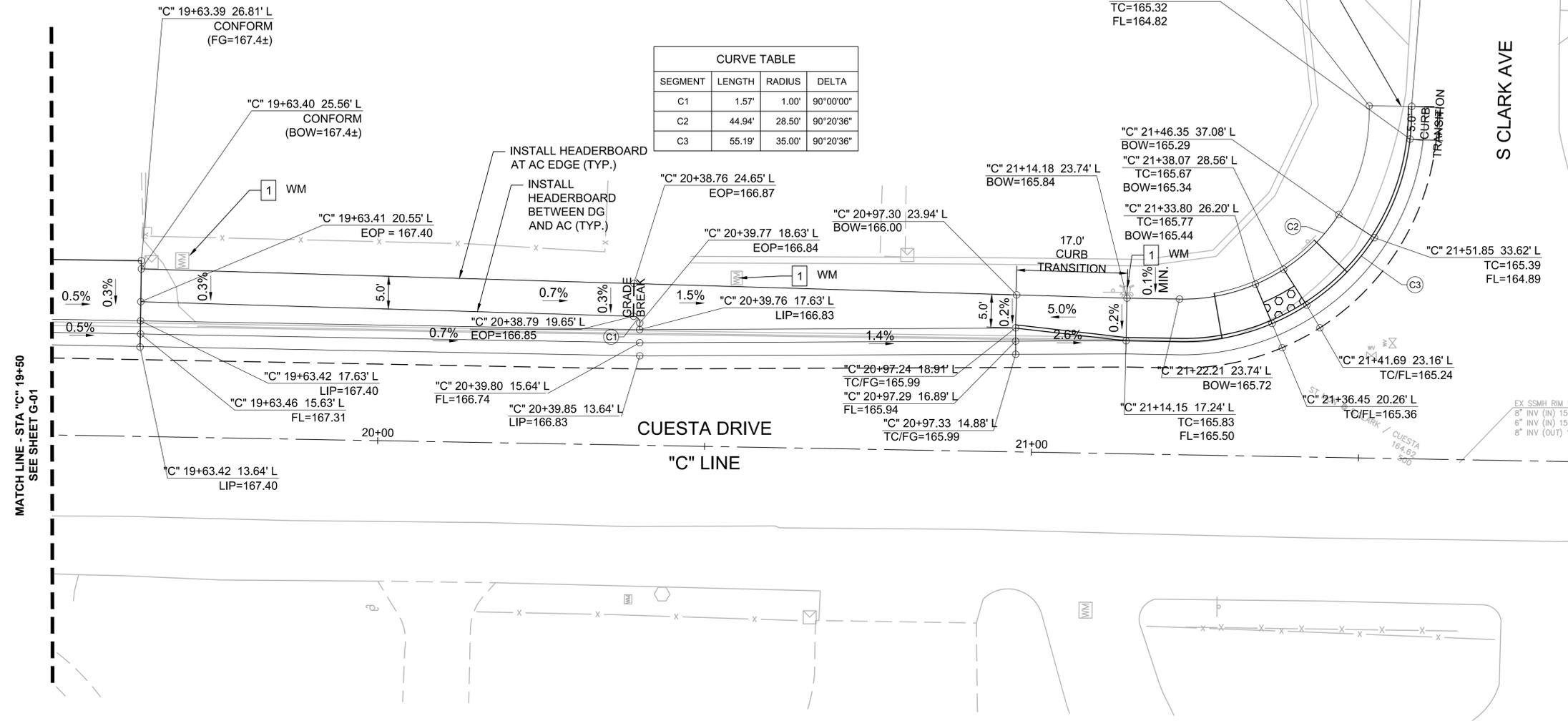
**UTILITY NOTES:**  
UTILITY NOTES FOR THIS SHEET ONLY  
UTILITY NOTES DO NOT NECESSARILY APPEAR ON EVERY SHEET

- 1 ADJUST TO GRADE EX. UTILITY STRUCTURE (PER PANS)
- 2 PROTECT IN PLACE EX. UTILITY POLE.

**TEMPORARY EROSION CONTROL NOTE:**

CONTRACTOR SHALL PROVIDE TEMPORARY STORM WATER POLLUTION CONTROL DURING CONSTRUCTION PER SANTA CLARA VALLEY URBAN RUNOFF POLLUTION PREVENTION PROGRAM CONSTRUCTION BEST MANAGEMENT PRACTICES (SEE SHEET D-06). PROVIDE DRAINAGE INLET PROTECTION AT STORM DRAINS LOCATED WITHIN 500' OF PROJECT EXTENTS PER CALTRANS STD. PLAN T62. CONTRACTOR TO VERIFY ALL STORM WATER DRAIN INLET LOCATIONS

CURVE TABLE			
SEGMENT	LENGTH	RADIUS	DELTA
C1	1.57'	1.00'	90°00'00"
C2	44.94'	28.50'	90°20'36"
C3	55.19'	35.00'	90°20'36"



MATCH LINE - STA "C" 19+50  
SEE SHEET G-01

S CLARK AVE



DESIGNED: JW	REVISIONS
REVIEWED: SF	NO DATE ITEM
DRAWN: JP_EK	
DATE: 5/18/2020	
1"=20' SCALE	



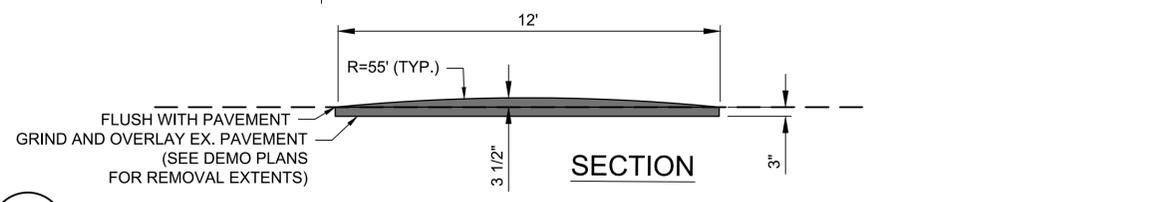
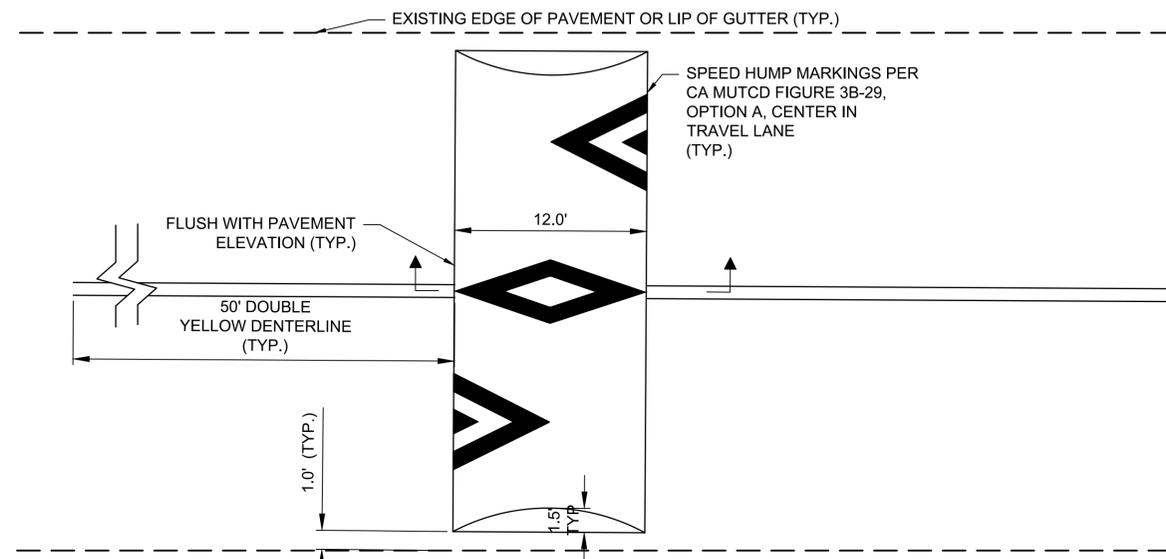
304 12TH ST, SUITE 2A  
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p:510.540.5008



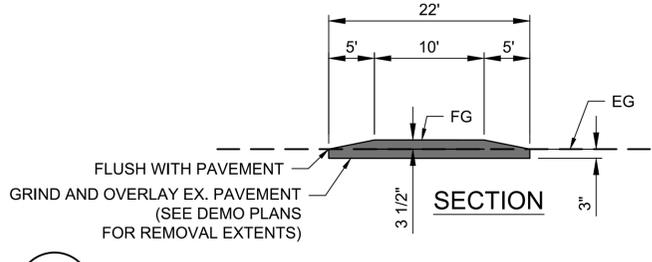
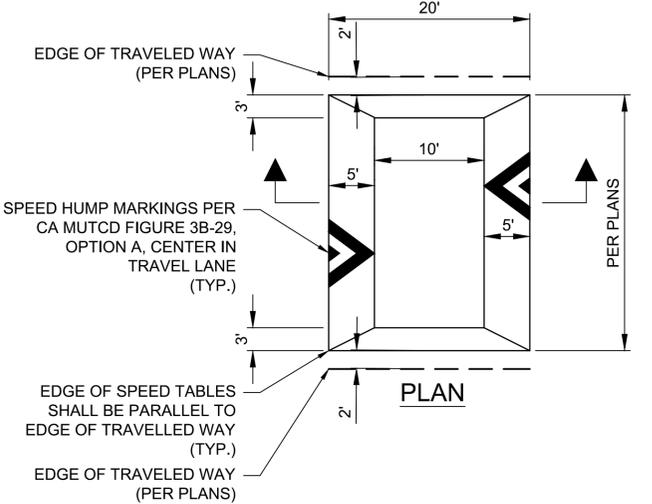
**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

GRADING AND  
DRAINAGE PLANS

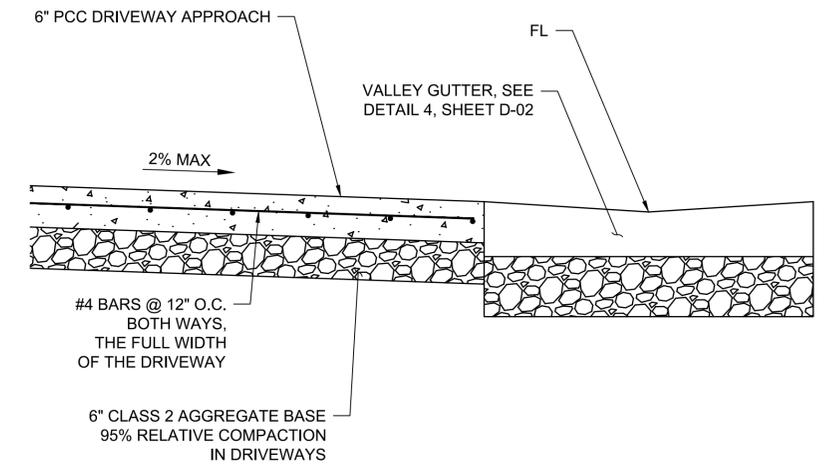
SHEET NO.  
**G-02**  
23 OF 29



1 SPEED HUMP NTS



2 SPEED TABLE NTS



3 DRIVEWAY NTS

DESIGNED: JW	REVISIONS
REVIEWED: SF	NO DATE ITEM
DRAWN: JP_EK	
DATE: 5/18/2020	
N/A SCALE	



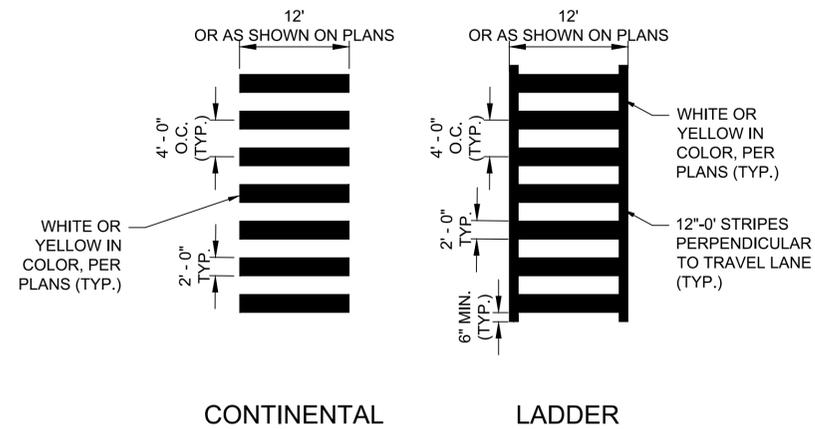
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p:510.540.5008



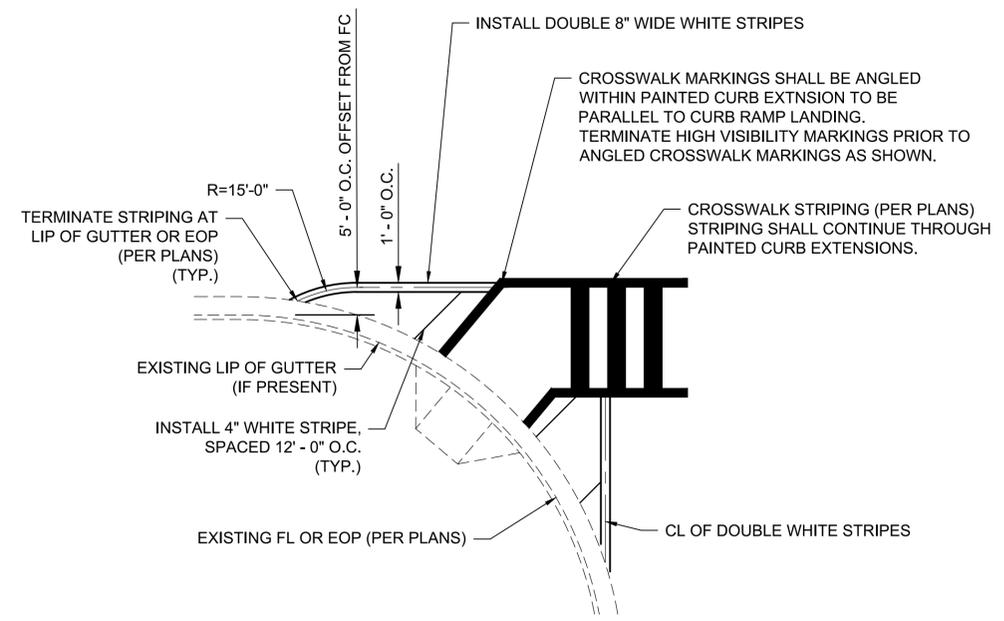
**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

CONSTRUCTION  
DETAILS

SHEET NO.  
**D-01**  
24 OF 29

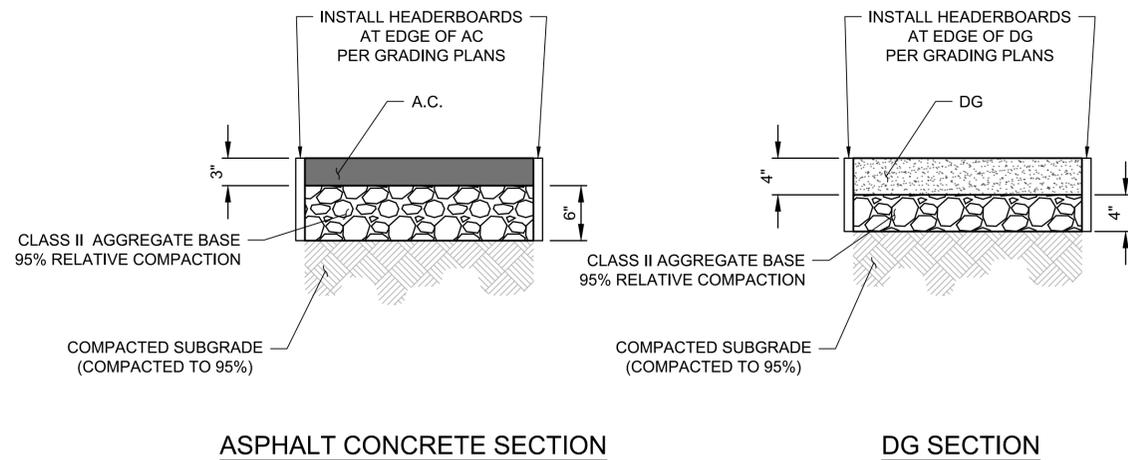


- NOTES:
- CROSSWALK STRIPING TO BE WHITE OR YELLOW IN COLOR (PER PLANS)
  - SEE CALTRANS STD PLAN A88A FOR CROSSWALK STRIPING ALIGNMENT WITH CURB RAMP
  - STRIPING SHALL CONFORM TO CALTRANS STD PLAN A88A DETAILS

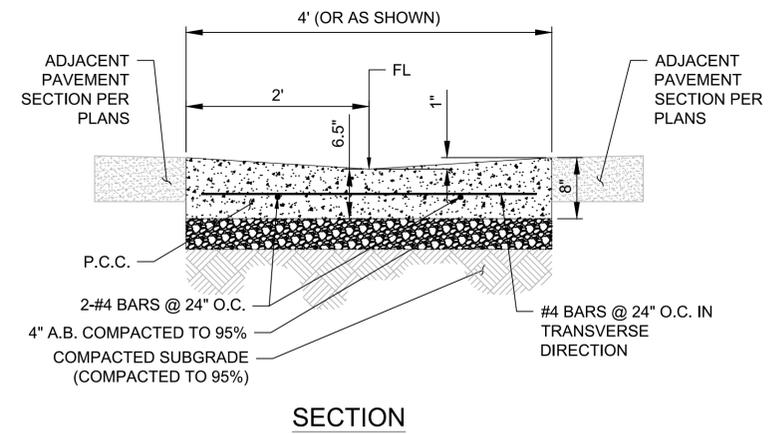


1 HIGH VISIBILITY CROSSWALKS NTS

2 PROTECTED STRIPED CURB EXTENSION NTS



- NOTE:
- FOR SECTIONS OF A.C. PEDESTRIAN PATHWAY ABUTTING A.C. BERM, SEE DETAIL 5, THIS SHEET



3 PAVEMENT SECTIONS NTS

4 4' VALLEY GUTTER NTS

DESIGNED:	JW
REVIEWED:	SF
DRAWN:	JP_EK
DATE:	5/18/2020
N/A SCALE	

REVISIONS		
NO	DATE	ITEM



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p:510.540.5008



**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

CONSTRUCTION  
DETAILS

SHEET NO.  
**D-02**  
25 OF 29

WARNING SIGN SCHEDULE					
KEY	SIZE	SIGN & COLOR			
S1-1	30" X 30"	 BACKGROUND: YELLOW BORDER: BLACK LEGEND: BLACK	W16-4P	24" X 12"	 BACKGROUND: YELLOW BORDER: BLACK LEGEND: BLACK
W3-1	30" X 30"	 BACKGROUND: YELLOW BORDER: BLACK LEGEND: RED & BLACK	W16-7P	24" X 12"	 BACKGROUND: YELLOW BORDER: BLACK LETTERING: BLACK
W3-3	30" X 30"	 BACKGROUND: YELLOW BORDER: BLACK LEGEND: RED, YELLOW, GREEN & BLACK	W16-9P	24" X 12"	 BACKGROUND: YELLOW BORDER: BLACK LETTERING: BLACK
W4-4P	24" X 12"	 BACKGROUND: YELLOW BORDER: BLACK LETTERING: BLACK	W16-15P	24" X 12"	 BACKGROUND: YELLOW BORDER: BLACK LETTERING: BLACK
W13-1P (15MPH)	18" X 18"	 BACKGROUND: YELLOW BORDER: BLACK LETTERING: BLACK	W17-1	30" X 30"	 BACKGROUND: YELLOW BORDER: BLACK LETTERING: BLACK

**NOTES:**

- SIGN AND POST INSTALLATION TO CONFORM TO CITY OF LOS ALTOS STANDARD DETAILS SU-15, SU-16, AND SU-17, SEE SHEET D-05.
- STREET SIGN FACES TO CONFORM TO CITY OF LOS ALTOS STANDARD DETAILS SU-15, SEE SHEET D-05.
- SIGN S1-1 (AND PLAQUES WITH SIGN S1-1) SHALL BE YELLOW-GREEN IN COLOR. SIGN POSTS WITH SIGN S1-1 SHALL HAVE YELLOW-GREEN SIGN POLE REFLECTOR ON THE POLE SHAFT. REFLECTOR SHALL READ "SCHOOL".

REGULATORY SIGN SCHEDULE		
KEY	SIZE	SIGN & COLOR
R1-1	30" X 30"	 BACKGROUND: RED BORDER: WHITE LETTERING: WHITE
R1-3P	36" X 24"	 BACKGROUND: RED BORDER: WHITE LETTERING: WHITE
R4-7	24" X 36"	 BACKGROUND: WHITE BORDER: BLACK LEGEND: BLACK
R26 (CA)	12" X 18"	 BACKGROUND: WHITE BORDER: RED LETTERING: RED

GUIDE SIGN SCHEDULE		
KEY	SIZE	SIGN & COLOR
D11-1	24" X 18"	 BACKGROUND: GREEN LETTERING: WHITE BORDER/LEGEND: WHITE

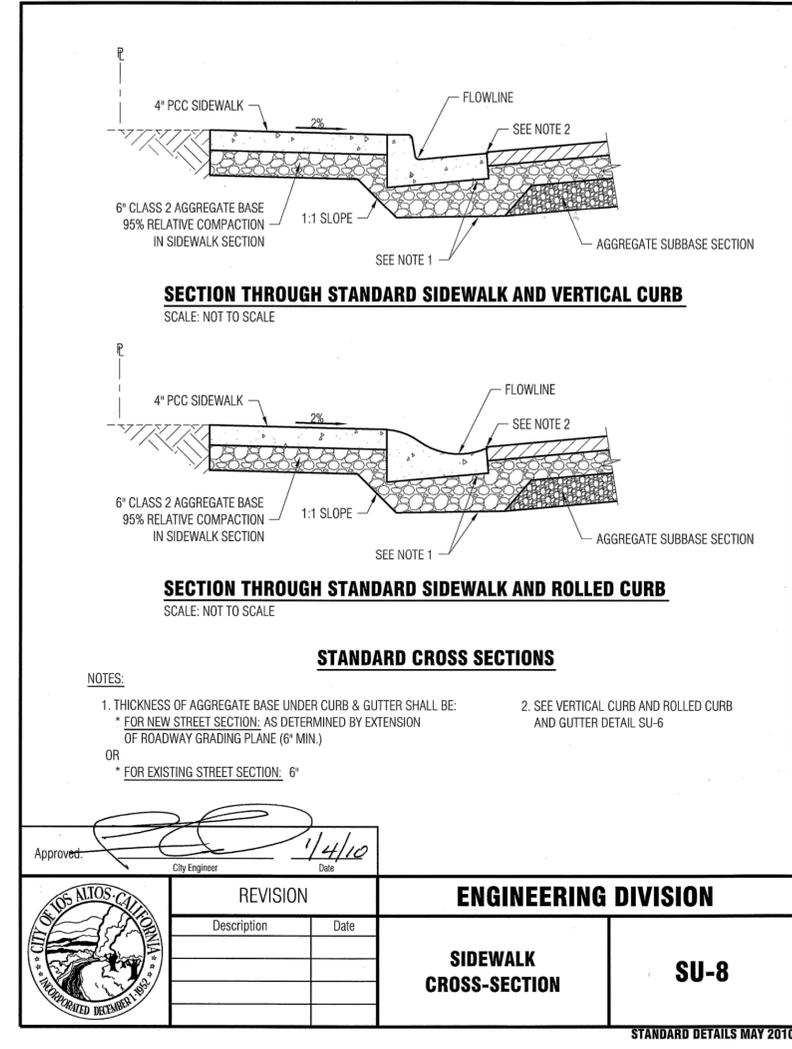
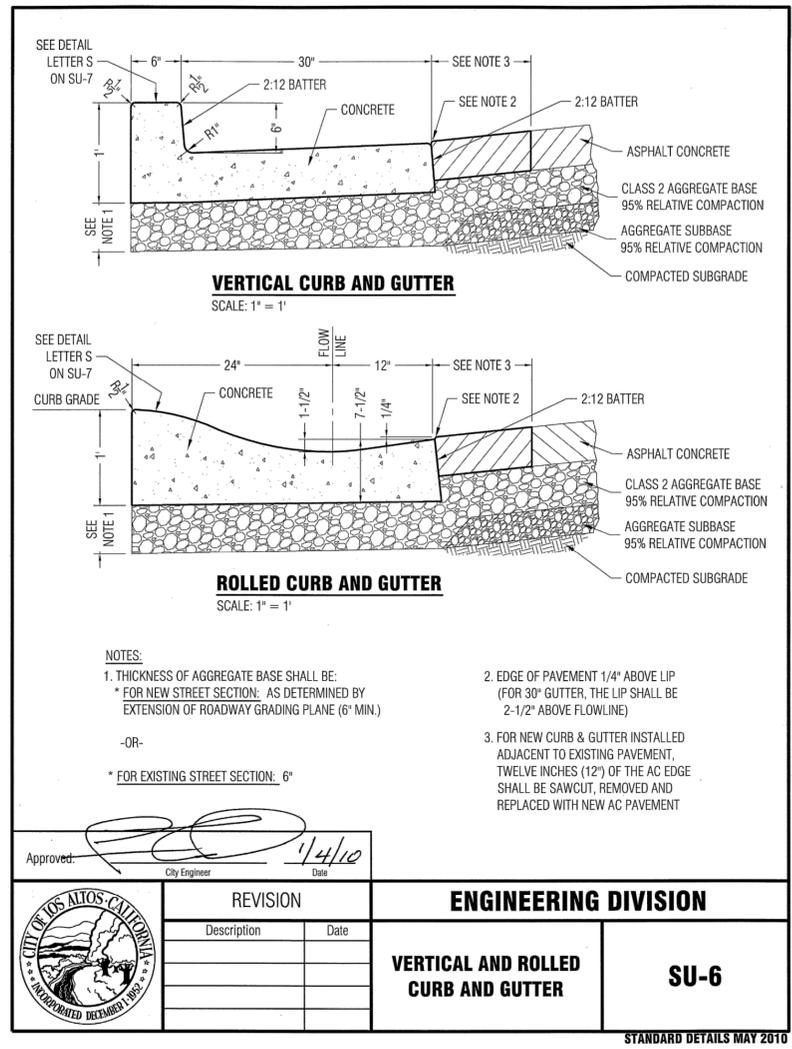
DESIGNED: JW	REVISIONS
REVIEWED: SF	NO DATE ITEM
DRAWN: JP	
DATE: 5/18/2020	
N/A	
SCALE	



**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

SIGNAGE  
DETAILS

SHEET NO.  
**D-03**  
26 OF 29



1 RELEVANT CITY STANDARD CONSTRUCTION DETAILS FOR PROJECT WORK (SU-6, SU-8, LI-9) NTS

DESIGNED: JW	REVISIONS
REVIEWED: SF	NO DATE ITEM
DRAWN: JP_EK	
DATE: 5/18/2020	
N/A SCALE	



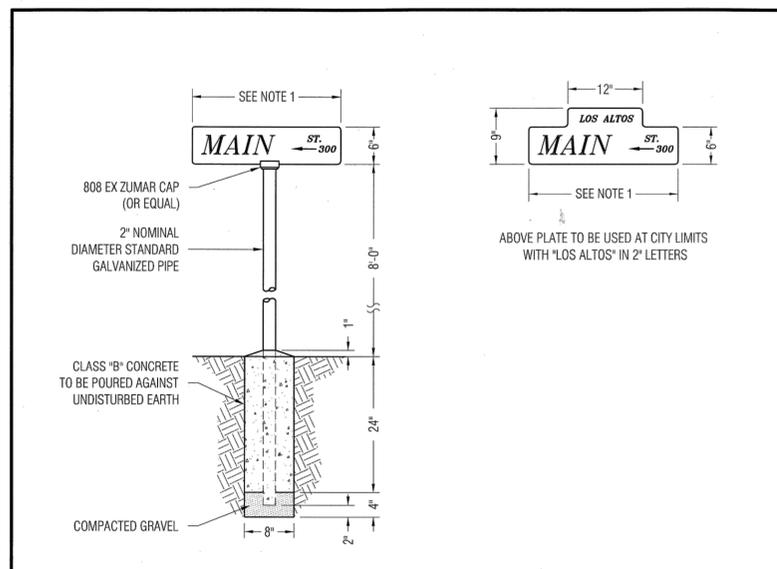
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p:510.540.5008



**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

CITY STANDARD  
DETAILS

SHEET NO.  
**D-04**  
27 OF 29

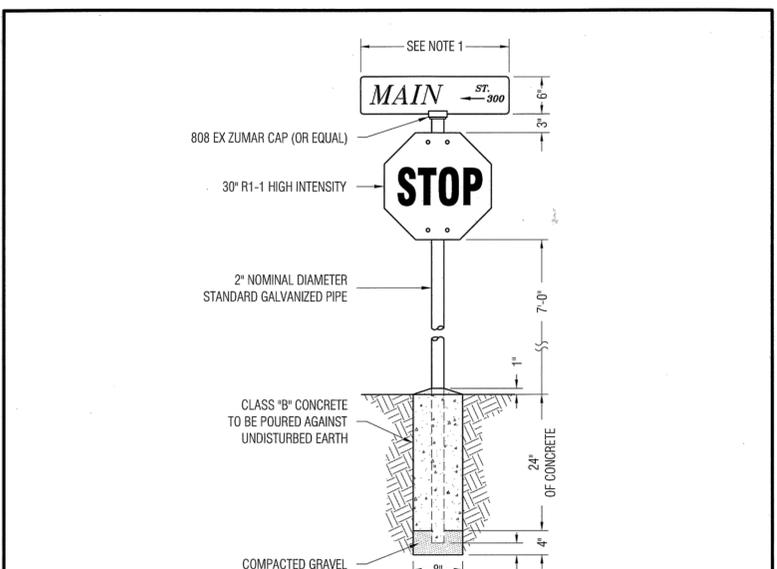


**STANDARD STREET SIGN**  
SCALE: NOT TO SCALE

- NOTES:
1. PLATES TO BE 0.080 GAUGE ALUMINUM, WIDTH VARIES IN 6" INCREMENTS FROM A MINIMUM OF 24" TO A MAXIMUM OF 36" x 6" IN HEIGHT. CORNER RADIUS IS 0.5", WITHOUT HOLES.
  2. SIGN IS SINGLE PLATE, DOUBLE FACE, WITH 3M WHITE 3290 ENGINEER GRADE REFLECTIVE SHEETING OVERLAYED BY 3M 1179 TRANSPARENT FILM FOR OPAQUE BROWN BACKGROUND. LETTERS ARE 3M 3290 WHITE REFLECTIVE ENGINEER GRADE SHEETING APPLIED OVER THE 1179 FILM.
  3. LETTER STYLE IS GARAMOND BOLD ITALIC CONDENSED. 4" ALL UPPERCASE FOR STREET NAME; 2" ALL UPPERCASE FOR SUFFIX & BLOCK NUMBER. SUFFIX IS CENTERED OVER "ARROW" AND BLOCK NUMBER WITH 0.75" SPACE BETWEEN LINES.

Approved:  1/4/10 City Engineer Date	REVISION		<b>ENGINEERING DIVISION</b>	
	Description	Date	<b>STREET SIGN</b>	<b>SU-15</b>

STANDARD DETAILS MAY 2010

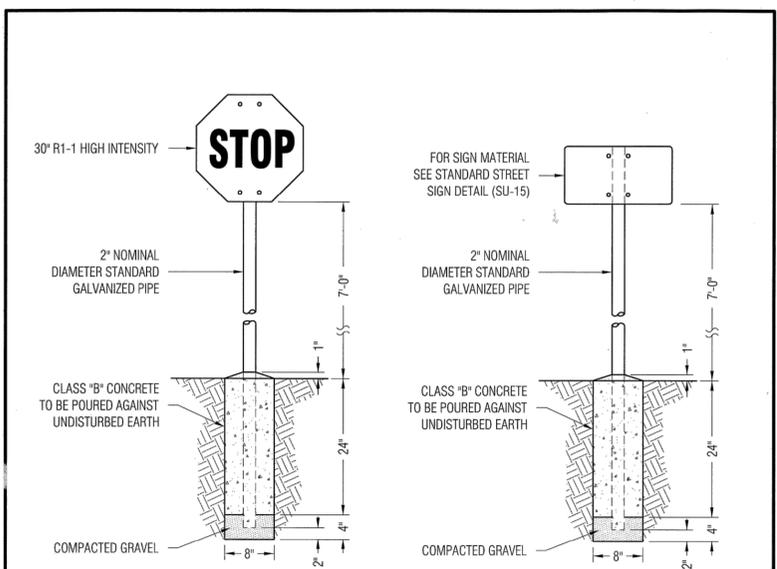


**COMBINED STOP SIGN & STREET SIGN**  
SCALE: NOT TO SCALE

- NOTES:
1. PLATES TO BE 0.080 GAUGE ALUMINUM, WIDTH VARIES IN 6" INCREMENTS FROM A MINIMUM OF 24" TO A MAXIMUM OF 36" x 6" IN HEIGHT. CORNER RADIUS IS 0.5", WITHOUT HOLES.
  2. SIGN IS SINGLE PLATE, DOUBLE FACE, WITH 3M WHITE 3290 ENGINEER GRADE REFLECTIVE SHEETING OVERLAYED BY 3M 1179 TRANSPARENT FILM FOR OPAQUE BROWN BACKGROUND. LETTERS ARE 3M 3290 WHITE REFLECTIVE ENGINEER GRADE SHEETING APPLIED OVER THE 1179 FILM.
  3. LETTER STYLE IS GARAMOND BOLD ITALIC CONDENSED. 4" ALL UPPERCASE FOR STREET NAME; 2" ALL UPPERCASE FOR SUFFIX & BLOCK NUMBER. SUFFIX IS CENTERED OVER "ARROW" AND BLOCK NUMBER WITH 0.75" SPACE BETWEEN LINES.
  4. STOP SIGN SHALL BE INSTALLED WITH TWO MOUNTING BRACKETS USING U-BOLTS AND THEFT-PROOF BOLTS.

Approved:  1/4/10 City Engineer Date	REVISION		<b>ENGINEERING DIVISION</b>	
	Description	Date	<b>COMBINED STOP SIGN &amp; STREET SIGN</b>	<b>SU-16</b>

STANDARD DETAILS MAY 2010



**STANDARD STOP SIGN**  
SCALE: NOT TO SCALE

**WARNING & REGULATORY SIGNS**  
SCALE: NOT TO SCALE

- NOTES:
1. STOP SIGN SHALL BE 30" R1-1 HIGH INTENSITY.
  2. SIGNS SHALL BE INSTALLED WITH TWO MOUNTING BRACKETS USING U-BOLTS AND THEFT-PROOF BOLTS.

Approved:  1/4/10 City Engineer Date	REVISION		<b>ENGINEERING DIVISION</b>	
	Description	Date	<b>STOP, WARNING AND REGULATORY SIGNS</b>	<b>SU-17</b>

STANDARD DETAILS MAY 2010

1 RELEVANT CITY STANDARD SIGNING DETAILS (SU-15, SU-16, SU-17)

NTS

DESIGNED: JW	REVISIONS
REVIEWED: SF	NO DATE ITEM
DRAWN: JP_EK	
DATE: 5/18/2020	
N/A SCALE	

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OAKLAND, CA 94607  
p:510.540.5008

CITY OF LOS ALTOS - CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER  
STEPHEN B. FRYSON  
No. 42110  
CIVIL  
STATE OF CALIFORNIA

**CUESTA DRIVE  
TRAFFIC CALMING  
PROJECT No. TS0102220**  
Los Altos, California

CITY STANDARD  
DETAILS

SHEET NO.  
**D-05**  
28 OF 29

## Heavy Equipment Operation

Best Management Practices for the Construction Industry



### Best Management Practices for the

- Vehicle and equipment operators
- Site supervisors
- General contractors
- Home builders
- Developers

### Doing The Job Right

#### Site Planning and Preventive Vehicle Maintenance

- Maintain all vehicles and heavy equipment. Inspect frequently for and repair leaks.
- Perform major maintenance, repair jobs, and vehicle and equipment washing off site where cleanup is easier.
- If you must drain and replace motor oil, radiator coolant, or other fluids on site, use drip pans or drop cloths to catch drips and spills. Collect all fluids, store in separate containers, and properly dispose as hazardous waste (recycle whenever possible).
- Do not use diesel oil to lubricate equipment parts, or clean equipment. Use only water for any site cleaning.
- Cover exposed fifth wheel hitches and other oily or greasy equipment during rain events.

#### Storm water Pollution from Heavy Equipment on Construction Sites

Poorly maintained vehicles and heavy equipment that leak fuel, oil, antifreeze or other fluids on the construction site are common sources of storm drain pollution. Prevent spills and leaks by isolating equipment from runoff channels, and by watching for leaks and other maintenance problems. Remove construction equipment from the site as soon as possible.

### Spill Cleanup

- Clean up spills immediately when they happen.
- Never hose down "dirty" pavement or impermeable surfaces where fluids have spilled. Use dry cleanup methods whenever possible. (absorbent materials, cat litter, and/or rags) whenever possible and properly dispose of absorbent materials.
- Sweep up spilled dry materials immediately. Never attempt to "wash them away" with water, or bury them.
- Use as little water as possible for dust control. Ensure water used doesn't leave silt or discharge to storm drains.
- Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- Report significant spills to the appropriate local spill response agencies immediately.
- If the spill poses a significant hazard to human health and safety, property or the environment, you must also report it to the State Office of Emergency Services.

## Roadwork and Paving

Best Management Practices for the Construction Industry



### Best Management Practices for the

- Road crews
- Drive/ride/walk/parking lot construction crews
- Seal coat contractors
- Operators of grading equipment, paving machines, dump trucks, concrete mixers
- Construction inspectors
- General contractors
- Home builders
- Developers

### Doing The Job Right

#### General Business Practices

- Develop and implement erosion/sediment control plans for roadway embankments.
- Schedule excavation and grading work during dry weather.
- Check for and repair leaking equipment.
- Perform water equipment repairs at designated areas in your maintenance yard, where cleanup is easier. Avoid performing equipment repairs at construction sites.
- When refueling or when vehicle/equipment maintenance must be done on site, designate a location away from storm drains and creeks.
- Do not use diesel oil to lubricate equipment parts or clean equipment.
- Recycle used oil, concrete, broken asphalt, etc. whenever possible, or dispose of properly.

#### During Construction

- Avoid paving and seal coating in wet weather, or when rain is forecast, to prevent fresh materials from contacting stormwater runoff.
- Cover and seal catch basins and manholes when applying seal coat, slurry seal, fog seal, or similar materials.
- Protect drainage ways by using earth dikes, sand bags, or other controls to divert or trap and filter runoff.

#### Storm Drain Pollution from Roadwork

Road paving, surfacing, and pavement removal happen right in the street, where there are numerous opportunities for asphalt, saw-cut slurry, or excavated material to legally enter storm drains. Extra planning is required to store and dispose of materials properly and guard against pollution of storm drains, creeks, and the Bay.

### Doing The Job Right

#### General Business Practices

- Never wash excess material from exposed-aggregate concrete or similar treatments into a street or storm drain. Collect and recycle, or dispose to dirt area.
- Cover stockpiles (asphalt, sand, etc.) and other construction materials with plastic tarps. Protect from rainfall and prevent runoff with temporary roofs or plastic sheets and berms.
- Park paving machines over drip pans or absorbent material (saw, rags, etc.) to catch drips when not in use.
- Clean up all spills and leaks using "dry" methods (with absorbent materials and/or rags), or dig up, remove, and properly dispose of contaminated soil.
- Collect and recycle or appropriately dispose of excess abrasive gravel or sand.
- Avoid over-application by water trucks for dust control.

#### Asphalt/Concrete Removal

- Avoid creating excess dust when breaking asphalt or concrete.
- After breaking up old pavement, be sure to remove all chunks and pieces. Make sure sun broken pavement does not come in contact with rainfall or runoff.
- When making saw cuts, use as little water as possible. Shovel or vacuum water and slurry and remove from the site. Cover or protect storm drain inlets during saw-cutting. Sweep up, and properly dispose of, all residues.
- Sweep, never hose down streets to clean up tracked dirt. Use a street sweeper or vacuum truck. Do not dump vacuumed liquor in storm drains.

## Fresh Concrete and Mortar Application

Best Management Practices for the Construction Industry



### Best Management Practices for the

- Masons and bricklayers
- Sidewalk construction crews
- Plato construction workers
- Construction inspectors
- General contractors
- Home builders
- Developers
- Concrete delivery/pumping workers

### Doing The Job Right

#### General Business Practices

- Wash out concrete mixers only in designated wash-out areas in your yard, away from storm drains and waterways, where the water will flow into a temporary waste pit in a dirt area. Let water percolate through soil and dispose of settled, hardened concrete as garbage. Whenever possible, recycle washout by pumping back into mixers for reuse.
- Wash out chutes onto dirt areas at site that do not flow to streets or drains.
- Always store both dry and wet materials under cover, protected from rainfall and runoff and away from storm drains or waterways. Protect dry materials from wind.
- Secure bags of cement after they are open. Be sure to keep wind-blown cement powder away from streets, gutters, storm drains, rainfall, and runoff.
- Do not use diesel fuel as a lubricant on concrete forms, tools, or trailers.

#### Storm Drain Pollution from Fresh Concrete and Mortar Applications

Fresh concrete and cement-related mortars that wash into lakes, streams, or estuaries are toxic to fish and the aquatic environment. Disposing of these materials to the storm drains or creeks can block storm drains, causes serious problems, and is prohibited by law.

### During Construction

- Don't mix up more fresh concrete or cement than you will use in a two-hour period.
- Set up and operate small mixers on tarps or heavy plastic drop cloths.
- When cleaning up after driveway or sidewalk construction, wash fines onto dirt areas, not down the driveway or into the street or storm drain.
- Protect applications of fresh concrete and mortar from rainfall and runoff until the material has dried.
- Wash down exposed aggregate concrete only when the wash water can (1) flow onto a dirt area; (2) drain onto a bermed surface from which it can be pumped and disposed of properly; or (3) be vacuumed from a catchment created by blocking a storm drain inlet. If necessary, divert runoff with temporary berms. Make sure runoff does not reach gutters or storm drains.
- When breaking up pavement, be sure to pick up all the pieces and dispose of properly. Recycle large chunks of broken concrete at a landfill.
- Never bury waste material. Dispose of small amounts of excess dry concrete, grout, and mortar in the trash.
- Never dispose of washout into the storm drains, drainage ditches, or streams.

## Preventing Pollution: It's Up to Us

In the Santa Clara Valley, storm drains transport water directly to local creeks and San Francisco Bay without treatment. Storm water pollution is a serious problem for wildlife dependent on our waterways and for the people who live near polluted streams or bay lands. Some common sources of this pollution include spilled oil, fuel, and fluids from vehicles and heavy equipment; construction debris; sediment created by erosion; landscaping runoff containing pesticides or weed killers; and materials such as used motor oil, antifreeze, and paint products that people pour or spill into a street or storm drain.

Thirteen valley municipalities have joined together with Santa Clara County and the Santa Clara Valley Water District to educate local residents and businesses and fight storm water pollution. To comply with this program, contractors must comply with the practices described in this drawing sheet.

### Spill Response Agencies

DIAL 9-1-1  
State Office of Emergency Services Warning Center (24 hours): 800-852-7550  
Santa Clara County Environmental Health Services: (408) 299-6930

### Local Pollution Control Agencies

County of Santa Clara Pollution Prevention Program: (408) 441-1195  
County of Santa Clara Integrated Waste Management Program: (408) 441-1198  
County of Santa Clara District Attorney Environmental Crimes Hotline: (408) 299-TIPS  
Santa Clara County Recycling Hotline: 1-800-533-8414  
Santa Clara Valley Water District: (408) 265-2600  
Santa Clara Valley Water District Pollution Hotline: 1-888-510-5151  
Regional Water Quality Control Board San Francisco Bay Region: (510) 622-2300  
Palo Alto Regional Water Quality Control Plant: (650) 329-2598  
Serving East Palo Alto Sanitary District, Los Altos, Los Altos Hills, Mountain View, Palo Alto, Stanford

### City of Los Altos

Building Department: (650) 947-2752  
Engineering Department: (650) 947-2780

## Landscaping, Gardening, and Pool Maintenance

Best Management Practices for the Construction Industry



### Best Management Practices for the

- Landscapers
- Gardeners
- Swimming pool/spa service and repair workers
- General contractors
- Home builders
- Developers
- Homeowners

### Doing The Right Job

- Protect stockpiles and landscaping materials from wind and rain by storing them under tarps or secured plastic sheeting.
- Store pesticides, fertilizers, and other chemicals indoors or in a shed or storage cabinet.
- Schedule grading and excavation projects during dry weather.
- Use temporary check dams or ditches to divert runoff away from storm drains.
- Protect stormwater with sandbags or other sediment controls.
- Re-vegetation is an excellent form of erosion control for any site.

#### Landscaping/Garden Maintenance

- Use pesticides sparingly according to instructions on the label. Rinse empty containers, and use rinse water as product. Dispose of rinsed, empty containers in the trash. Dispose of unused pesticides as hazardous waste.
- Collect lawn and garden clippings, pruning waste, and tree trimmings. Chip if necessary, and compost.
- In communities with curbside pickup of yard waste, place clippings and pruning waste at the curb in approved bags or containers. Or, take to a landfill that accepts yard waste. No curbside pickup of yard waste is available for commercial properties.

#### Storm Drain Pollution from Landscaping and Swimming Pool Maintenance

Many landscaping activities expose soils and increase the likelihood that earth and garden chemicals will run off into the storm drains during irrigation or when it rains. Swimming pool water containing chlorine and copper-based algicides should never be discharged to storm drains. These chemicals are toxic to aquatic life.

### Do Not Blow or Take Leaves, etc. into the Street

- Do not blow or take leaves, etc. into the street or place yard waste in gutters or on dirt shoulders, unless you are piling them for recycling (allowed by San Jose and unincorporated County only). Sweep up any leaves, litter or residue in gutters or on street.
- In San Jose, leave yard waste for curbside recycling pickup in the street, 18 inches from the curb and completely out of the flow line in any storm drain.

#### Pool/Fountain/Spa Maintenance

- Drain pools or spas When it's time to drain a pool, spa, or fountain, please be sure to call your local wastewater treatment plant before you start for further guidance on flow rate restrictions, backflow prevention, and handling special cleaning waste (such as pool vinyl). Discharge flows shall not exceed 100 gallon per minute.
- Never discharge pool or spa water to a street or storm drain. Discharge to a sanitary sewer cleanout.
- If possible, when emptying a pool or spa, let chlorine dissipate for a few days and then recirculate water by draining it gradually onto a landscaped area.
- Do not use copper-based algicides. Control algae with chlorine or other approved products, such as sodium borate.

#### Filter Cleaning

- Never clean a filter in the street or near a storm drain. Rinse cartridge and diatomaceous earth filters onto a dirt area, and spend filter residue into soil. Dispose of spent diatomaceous earth in the garbage.
- If there is no suitable dirt area, call your local wastewater treatment plant for instructions on discharging filter backwash or rinse water to the sanitary sewer.

## Painting and Application of Solvents and Adhesives

Best Management Practices for the Construction Industry



### Best Management Practices for the

- Homeowners
- Painters
- Paperhangers
- Plasterers
- Graphic artists
- Dry-wall crews
- Floor covering installers
- General contractors
- Home builders
- Developers

### Doing The Job Right

#### Handling Paint Products

- Keep all liquid paint products and wastes away from the gutter, street, and storm drains. Liquid residues from paints, thinners, solvents, glues, and cleaning fluids are hazardous wastes and must be disposed of at a hazardous waste collection facility (contact your local stormwater program listed on the back of this brochure).
- When thoroughly dry, empty paint cans, used brushes, rags, and drop cloths may be disposed of as garbage in a sanitary landfill. Extra planning is required to store and dispose of materials properly and guard against pollution of storm drains, creeks, and the Bay.

#### Paint Removal

- Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
- Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury or tributyl tin must be disposed of as hazardous wastes. Lead based paint removal requires a state-certified contractor.
- When stripping or cleaning building exteriors with high-pressure water, block storm drains. Direct wash water onto a dirt area and aside into soil. Or, check with the local wastewater treatment authority to find out if you can collect (mop or vacuum) building cleaning water and dispose of the sanitary sewer. Sampling of the water may be required to assist the wastewater treatment authority in making its decision.

#### Recycle Leftover Paints Whenever Possible

- Recycle or donate excess water-based (latex) paint, or return to supplier.
- Recycle solvent or oil-based paint. Dispose of non-recyclable thinners, sludge and unwanted paint, as hazardous waste.
- Unopened cans of paint may be able to be returned to the paint vendor. Check with the vendor regarding its "buy-back" policy.

#### Storm Drain Pollution from Paints, Solvents, and Adhesives

All paints, solvents, and adhesives contain chemicals that are harmful to wildlife in local creeks, San Francisco Bay, and the Pacific Ocean. Toxic chemicals may come from liquid or solid products or from cleaning residues or rags. Paint, solvent, and adhesive residues and cleaning fluids should be recycled when possible, or disposed of properly to prevent these materials from flowing into storm drains and watercourses.

### Painting Cleanup

- Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream.
- For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint down a storm drain.
- For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids and residues as hazardous waste.

#### Paint Removal

- Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
- Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury or tributyl tin must be disposed of as hazardous wastes. Lead based paint removal requires a state-certified contractor.
- When stripping or cleaning building exteriors with high-pressure water, block storm drains. Direct wash water onto a dirt area and aside into soil. Or, check with the local wastewater treatment authority to find out if you can collect (mop or vacuum) building cleaning water and dispose of the sanitary sewer. Sampling of the water may be required to assist the wastewater treatment authority in making its decision.

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- Unopened cans of paint may be able to be returned to the paint vendor. Check with the vendor regarding its "buy-back" policy.



### Los Altos Municipal Code Requirements

#### Los Altos Municipal Code Chapter 10.08.390 Non-storm water discharges

- A. Unlawful discharges. It shall be unlawful to discharge any domestic waste or industrial waste into storm drains, gutters, creeks, or San Francisco Bay. Unlawful discharges to storm drains shall include, but not be limited to, discharge from toilets; sinks; industrial processes; cooling systems; boilers; fabric cleaning; equipment cleaning; vehicle cleaning; construction activities, including, but not limited to, painting, paving, concrete placement, saw cutting and grading; swimming pools; spas; and fountains, unless specifically permitted by a discharge permit or unless exempted pursuant to guidelines published by the superintendent.
- B. Threatened discharges. It shall be unlawful to cause hazardous materials, domestic waste, or industrial waste to be deposited in such a manner or location as to constitute a threatened discharge into storm drains, gutters, creeks or San Francisco Bay. A "threatened discharge" is a condition creating a substantial probability of harm, when the probability and potential extent of harm make it reasonably necessary to take immediate action to prevent, reduce or mitigate damages to persons, property or natural resources. Domestic or industrial wastes that are no longer contained in a pipe, tank or other container are considered to be threatened discharges unless they are actively being cleaned up.

#### Los Altos Municipal Code Section 10.08.430 Requirements for construction operations.

- A. A spill response plan for hazardous waste, hazardous materials and uncontained construction materials shall be prepared and available at the construction sites for all projects where the proposed construction site is equal to or greater than one acre of disturbed soil and for any other projects for which the city engineer determines it is necessary to protect surface waters. Preparation of the plan shall be in accordance with guidelines published by the city engineer.
- B. A storm water pollution prevention plan shall be prepared and available at the construction sites for all projects greater than one acre of disturbed soil and for any other projects for which the city engineer determines that a storm water management plan is necessary to protect surface waters. Preparation of the plan shall be in accordance with guidelines published by the city engineer. Prior approval shall be obtained from the city engineer or designee to discharge water pumped from construction sites to the storm drain. The city engineer or designee may require gravity settling and filtration upon a determination that either or both would improve the water quality of the discharge. Contaminated groundwater or water that exceeds state or federal requirements for discharge to navigable waters may not be discharged to the storm drain. Such water may be discharged to the sewer, provided that the requirements of Section 10.08.240 are met and the approval of the superintendent is obtained prior to discharge.
- C. No cleanup of construction debris from the streets shall result in the discharge of water to the storm drain system; nor shall any construction debris be deposited or allowed to be deposited in the storm drain system. (Prior code § 5-5.643)

Criminal and judicial penalties can be assessed for non-compliance.

## General Construction And Site Supervision

Best Management Practices For Construction



### Best Management Practices for the

- General contractors
- Site supervisors
- Inspectors
- Home builders
- Developers

#### Storm Drain Pollution from Construction Activities

Construction sites are common sources of storm water pollution. Materials and wastes that blow or wash into a storm drain, gutter, or street have a direct impact on local creeks and the Bay. As a contractor, or site supervisor, owner or operator of a site, you may be responsible for any environmental damage caused by your subcontractors or employees.

### Doing The Job Right

#### General Principles

- Keep an orderly site and ensure good housekeeping practices are used.
- Maintain equipment properly.
- Cover materials when they are not in use.
- Keep materials away from streets, storm drains and drainage channels.
- Ensure dust control water doesn't leave site or discharge to storm drains.
- Schedule excavation and grading activities for dry weather periods. To reduce soil erosion, plant temporary vegetation or place other erosion controls before rain begins. Use the Erosion and Sediment Control Manual, available from the Regional Water Quality Control Board, as a reference.
- Control the amount of runoff crossing your site (especially during excavation) by using berms or temporary or permanent drainage ditches to divert water flow around the site. Reduce storm water runoff velocities by constructing temporary check dams or berms where appropriate.
- Train your employees and subcontractors. Make these best management practices available to everyone who works on the construction site. Inform subcontractors about the storm water requirements and their own responsibilities.

#### Good Housekeeping Practices

- Designate one area of the site for auto parking, vehicle refueling, and routine equipment maintenance. The designated area should be well away from streams or storm drain inlets, termed if necessary. Make major repairs off site.
- Keep materials out of the rain - prevent runoff contamination at the source. Cover exposed piles of soil or construction materials with plastic sheeting or temporary roofs. Before it rains, sweep and remove materials from surfaces that drain to storm drains, creeks, or channels.
- Keep pollutants of exposed surfaces. Place trashcans and recycling receptacles around the site to minimize litter.

### Do Not Blow or Take Leaves, etc. into the Street

- Clean up leaks, drips and other spills immediately so they do not contaminate soil or groundwater or leave residues on paved surfaces. Use dry cleanup methods whenever possible. If you must use water, use just enough to keep the dust down.
- Cover and maintain dumpsters. Check frequently for leaks. Place dumpsters under roofs or cover with tarps or plastic sheeting secured to the outside of the dumpster. Never clean out a dumpster by hosing it down on the construction site.
- Set portable toilets away from storm drains. Make sure portable toilets are in good working order. Check frequently for leaks.

#### Material/Waste Handling

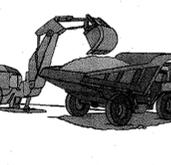
- Practice Source Reduction - minimize waste when you order materials. Order only the amount you need to finish the job.
- Use recyclable materials whenever possible. Arrange for pick-up of recyclable materials such as concrete, asphalt, scrap metal, solvents, degreasers, cleaned vegetation, paper, rock, and vehicle maintenance materials such as used oil, antifreeze, batteries, and tires.
- Dispose of all wastes properly. Many construction materials and wastes, including solvents, water-based paints, vehicle fluids, broken asphalt and concrete, wood, and cleaned vegetation can be recycled. Materials that cannot be recycled must be taken to an appropriate landfill or disposed of as hazardous waste. Never bury waste materials or leave them in the street or near a creek or stream bed.

#### Permits

- In addition to local building permits, you will need to obtain coverage under the State's General Construction Activity Storm Water Permit if your construction site meets the criteria in the State's Effective erosion control practices reduce the amount of runoff crossing a site and slow the flow with check dams or roughened slopes around excavations. Refer to the Regional Water Quality Control Board's Erosion and Sediment Control Field Manual for proper erosion and sediment control measures.

## Earth-Moving And Dewatering Activities

Best Management Practices for the Construction Industry



### Best Management Practices for the

- Bulldozer, back hoe, and grading machine operators
- Dump truck drivers
- Site supervisors
- General contractors
- Home builders
- Developers

### Doing The Job Right

#### General Business Practices

- Schedule excavation and grading work during dry weather.
- Perform major equipment repairs away from the job site.
- When refueling or vehicle/equipment maintenance must be done on site, designate a location away from storm drains.
- Do not use diesel oil to lubricate equipment parts, or clean equipment.

#### Practices During Construction

- Remove existing vegetation only when absolutely necessary. Plant temporary vegetation for erosion control on slopes or where construction is not immediately planned.
- Control down slope drainage courses, streams, and storm drains with wattles, or temporary drainage swales. Use check dams or ditches to divert runoff around excavations. Refer to the Regional Water Quality Control Board's Erosion and Sediment Control Field Manual for proper erosion and sediment control measures.

#### Storm Drain Pollution from Earth-Moving Activities and Dewatering

Soil excavation and grading operations loosen large amounts of soil that can flow or blow into storm drains and be handled improperly. Sediments in runoff can clog storm drains, smother aquatic life, and destroy habitats in creeks and the Bay. Effective erosion control practices reduce the amount of runoff crossing a site and slow the flow with check dams or roughened slopes around excavations. Refer to the Regional Water Quality Control Board's Erosion and Sediment Control Field Manual for proper erosion and sediment control measures.

### Doing The Job Right

#### General Business Practices

- Cover stockpiles and excavated soil with secured tarps or plastic sheeting.
- Check for odors, discoloration, or an oily sheen on groundwater.
- Call your local wastewater treatment agency and ask whether the groundwater must be tested.
- If contamination is suspected, have the water tested by a certified laboratory.
- Depending on the test results, you may be allowed to discharge pumped groundwater to the storm drain (if no sediments present) or sanitary sewer. OR, you may be required to collect and haul pumped groundwater offsite for treatment and disposal at an appropriate treatment facility.
- If the water is not clear, solids must be filtered or settled out by pumping to a settling tank prior to discharge. Options for filtering include:
  - Pumping through a perforated pipe sunk part way into a small pit filled with gravel.
  - Pumping from a bucket placed below water level using a submersible pump.
  - Pumping through a filtering device such as a swimming pool filter or filter fabric wrapped around end of suction pipe.
- When discharging to a storm drain, protect the inlet using a barrier of burlap filled with fabric rock, or cover inlet with filter fabric anchored under the grate. OR pump water through a gravel swale prior to discharge.

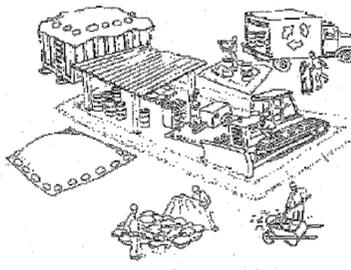
# Blueprint for a Clean Bay

Remember: The property owner and the contractor share ultimate responsibility for the activities that occur on a construction site. You may be held responsible for any environmental damage caused by your subcontractors or employees.

## Best Management Practices for the Construction Industry



### Santa Clara Urban Runoff Pollution Prevention Program



DESIGNED BY: LARRY LIND	APPROVED BY: <i>Jim Lind</i> CITY ENGINEER	CITY OF LOS ALTOS R.C.E.	DATE: OCTOBER, 2003
DRAWN BY: VICTOR CHEN	CHECKED BY: JIM GUSTAFSON	SHEET OF SHEETS	SCALE: N.T.S.
DRAWING NO.:			

DESIGNED:	JW
REVIEWED:	SF
DRAWN:	JP
DATE:	5/18/2002
N/A SCALE	

REVISIONS		
NO	DATE	ITEM