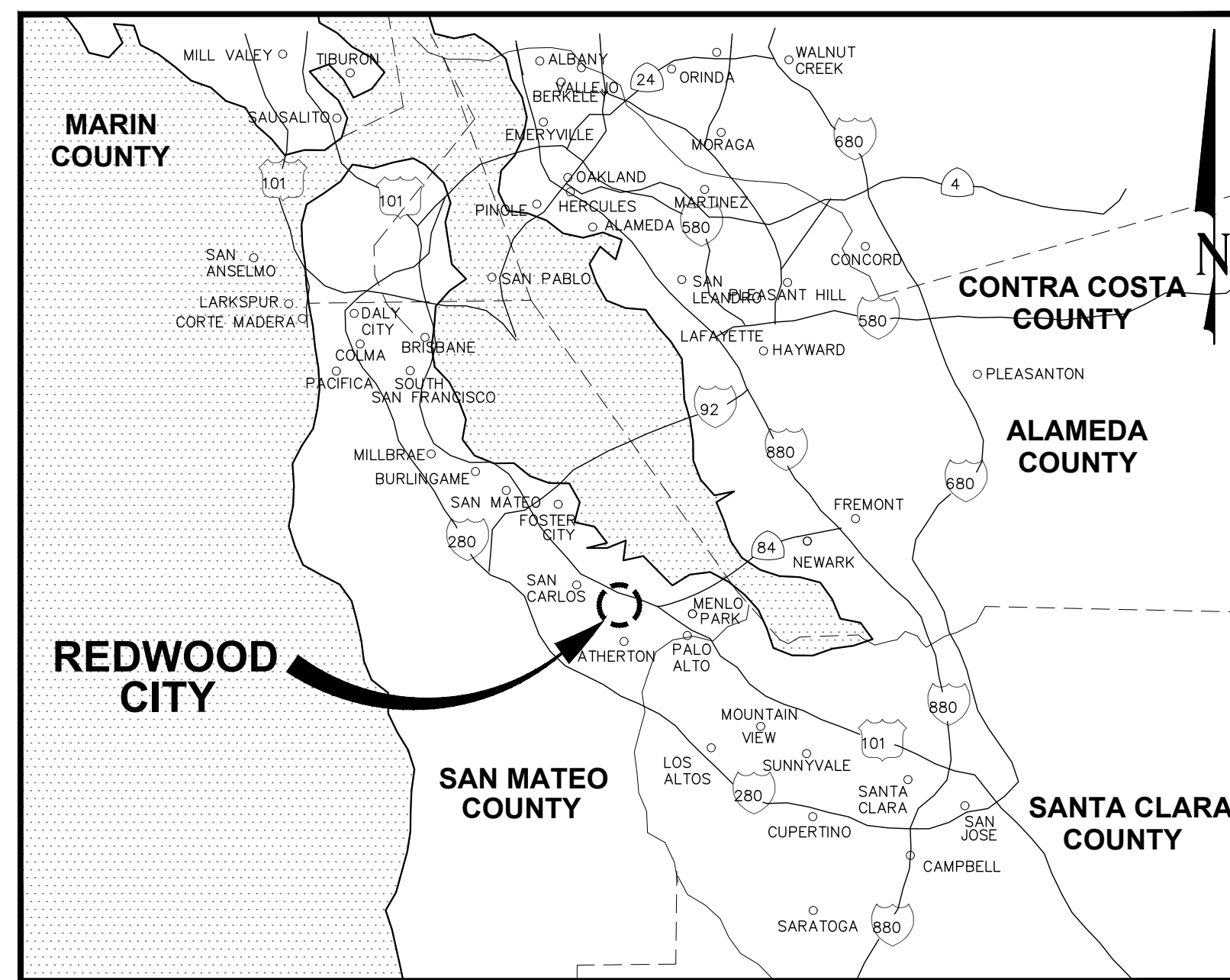


REDWOOD CITY

ROOSEVELT AVENUE QUICK-BUILD TRAFFIC CALMING PROJECT

APRIL 2023

TO BE SUPPLEMENTED BY THE 2022 CALTRANS STANDARD PLANS AND SPECIFICIATIONS, THE CALIFORNIA MUTCD AND THE CITY OF REDWOOD CITY STANDARD TECHNICAL SPECIFICATIONS AND DETAILS.



PROJECT VICINITY MAP

N.T.S.

UTILITY PURVERYORS

UTILITY	AGENCY	CONTACT	PHONE NUMBER
WATER	CITY OF REDWOOD CITY		650-780-7350
GAS	PG & E		877-743-7782
ELECTRIC	PG & E		877-743-7782
SEWER	CITY OF REDWOOD CITY		650-780-7350
DRAINAGE	CITY OF REDWOOD CITY		650-780-7380
COMMUNICATIONS	COMCAST	MARTINA GOMEZ	925-424-0278
COMMUNICATIONS	AT & T	ALEX THOMPSON	530-841-0621
COMMUNICATIONS	AT & T	RON PIMENTEL	530-841-0621
COMMUNICATIONS	SPRINT	RUSSELL MIX	650-375-2003
COMMUNICATIONS	WAVE BROADBAND - SF	KEN HAWKINS	925-322-7806
COMMUNICATIONS	ZAYO - CA	SEAN WIGHTMAN	408-350-6316



CITY COUNCIL

JEFF GEE - MAYOR
LISSETTE ESPINOZA-GARNICA - VICE MAYOR
ALICIA C. AGUIRRE
KAIA EAKIN
DIANE HOWARD
ELMER MARTINEZ SABALLOS
CHRIS STURKEN

CITY OFFICERS

MELISSA STEVENSON DIAZ
ALEX KHOJIKIAN

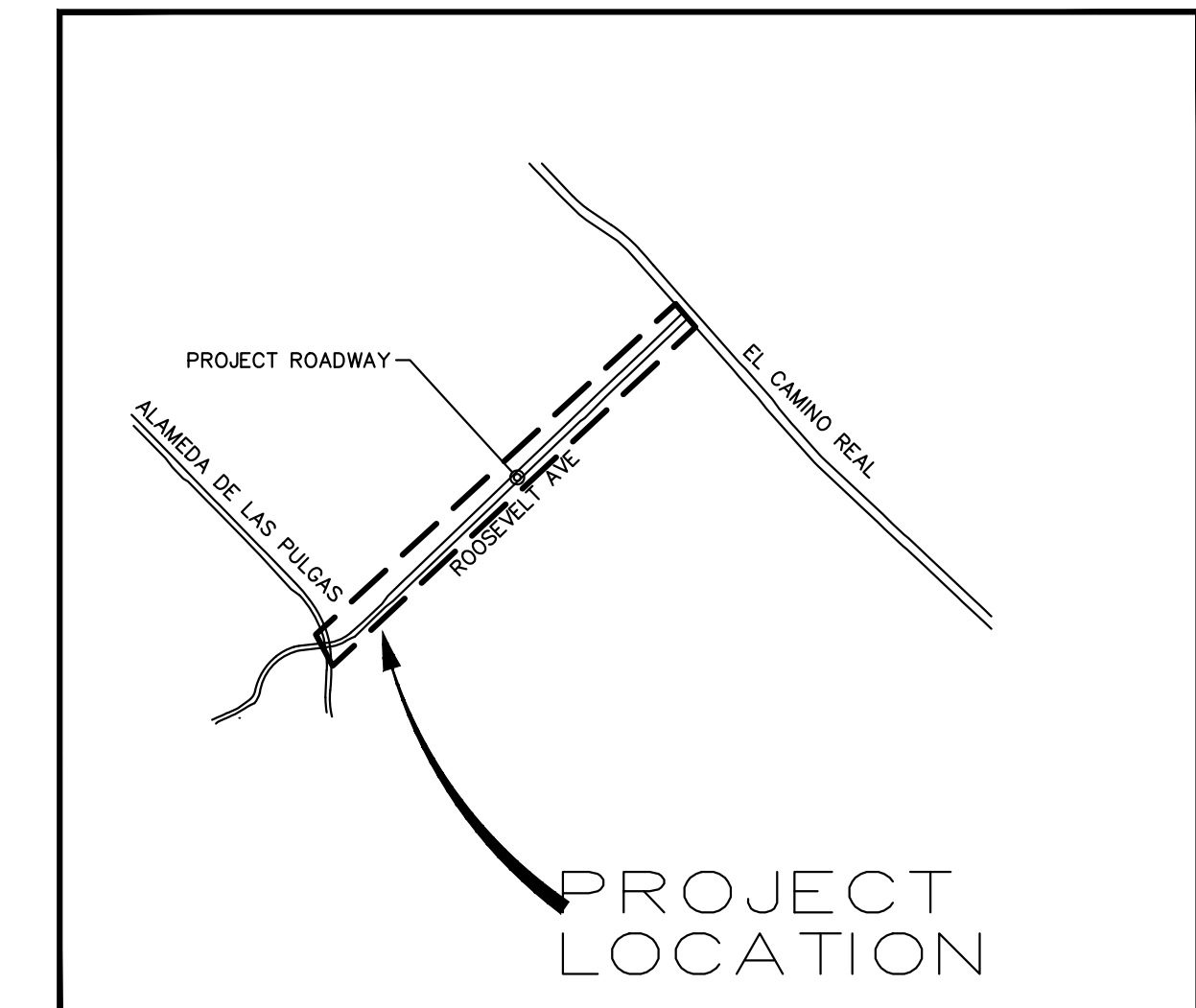
VERONICA RAMIREZ
PAMELA AGUILAR

CITY MANAGER
DIRECTOR OF COMMUNITY
DEVELOPMENT & TRANSPORTATION
CITY ATTORNEY
CITY CLERK

ENGINEERING AND TRANSPORTATION REDWOOD CITY, CALIFORNIA

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LOCATION MAP

N.T.S.



Know what's below.
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GENERAL NOTES

- ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITY CROSSINGS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF ANY CONSTRUCTION AFFECTING SAID LINES. CONTACT USA AT (800) 642-2444 AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION.
- ALL APPLICABLE WORK AND MATERIALS SHALL BE DONE IN ACCORDANCE WITH THE CITY OF REDWOOD CITY STANDARD TECHNICAL SPECIFICATIONS AND DETAILS, PREPARED IN THE OFFICE OF ENGINEERING AND TRANSPORTATION, INCLUDING MODIFICATIONS CONTAINED HEREIN.
- THE CONTRACTOR SHALL RESTORE ALL DAMAGED, REMOVED OR OTHERWISE DISTURBED WALLS, FENCES, SERVICES, UTILITIES, IMPROVEMENTS OR FEATURES OF WHATEVER NATURE, DUE TO CONTRACTOR'S WORK AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE INSTALLATION OF FACILITIES BY PG&E, AT&T, AND CABLE TV INSTALLATION. VALVE BOXES AND MANHOLES, AND STRUCTURES TO BE SET TO GRADE IN CONCRETE AFTER PAVING.
- ALL STREET MONUMENTS AND OTHER PERMANENT MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED AT CONTRACTOR'S EXPENSE BEFORE ACCEPTANCE OF THE IMPROVEMENTS BY THE CITY ENGINEER.
- THE CONTRACTOR SHALL GIVE THE CITY ENGINEER TWO WORKING DAYS ADVANCE NOTICE FOR INSPECTION. (650) 780-7380.
- NO TREES 12" DIAMETER OR LARGER MEASURED BETWEEN 6" AND 36" ABOVE GRADE, SHALL BE REMOVED WITHOUT THE WRITTEN CONSENT OF THE CITY ENGINEER. TREE REMOVALS, IF NECESSARY, SHALL CONFORM TO THE HERITAGE TREE ORDINANCE, ORDINANCE, NO. 1536.
- FOR LANE CLOSURES, THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL OF THE CITY ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE FLAGMEN, CONES OR BARRICADES, AS NECESSARY TO CONTROL TRAFFIC AND PREVENT HAZARDOUS CONDITIONS PER THE CALIFORNIA STANDARD PLANS, SPECIFICATIONS, AND MANUAL ON TRAFFIC CONTROL DEVICES, LATEST EDITION.
- PEDESTRIAN, PUBLIC ACCESSES, AND WHEELCHAIR ACCESSES SHALL BE MAINTAINED DURING THE CONSTRUCTION IN ACCORDANCE WITH STATE AND FEDERAL ADA REGULATIONS AND TO THE SATISFACTION OF THE CITY ENGINEER.
- NO TRENCHES OR HOLES SHALL BE LEFT OPEN OVERNIGHT; USE STEEL PLATING OR HOT MIX ASPHALT AS REQUIRED TO PROTECT OPEN TRENCHES OVERNIGHT.
- THE CONTRACTOR SHALL CONTROL DUST AT ALL TIMES AND SWEEP STREETS AS OFTEN AS NECESSARY DURING CONSTRUCTION ACTIVITIES IN ORDER TO PREVENT THE MIGRATION OF CONSTRUCTION DUST AND DEBRIS, AND TO THE SATISFACTION OF THE CITY ENGINEER.
- ALL REVISIONS TO THIS PLAN MUST BE REVIEWED AND APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION AND SHALL BE ACCURATELY SHOWN ON REVISED PLANS STAMPED AND SIGNED BY CITY ENGINEER PRIOR TO THE INSTALLATION OF THE IMPROVEMENTS.
- EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. EXISTING UNDERGROUND SANITARY SEWER LATERALS AND GAS LATERALS MAY NOT BE SHOWN ON THE DRAWINGS. THE ELEVATION OF ANY EXISTING UTILITIES, INCLUDING UNDERGROUND GAS, ELECTRIC, COMMUNICATIONS, TELEPHONE AND WATER ARE UNKNOWN. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 2 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL U.S.A. AT 800-642-2444. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THE VICINITY SHALL BE BORNE BY THE CONTRACTOR.
- THE LOCATION OF EXISTING UTILITIES MAY NECESSITATE DESIGN ADJUSTMENTS. ALL REVISIONS TO THIS PLAN MUST BE REVIEWED AND APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION AND SHALL BE ACCURATELY SHOWN ON REVISED PLANS STAMPED AND SIGNED BY CITY ENGINEER PRIOR TO THE INSTALLATION OF THE IMPROVEMENTS.
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING CONSTRUCTION OF THIS PROJECT. THIS INCLUDES THE SAFETY OF ALL PERSONS AND PROPERTY, PURSUANT TO THE PROVISIONS OF OSHA AND ITS REGULATIONS FOR THE PROTECTION OF WORK, STRUCTURES, SHORING AND OTHER IMPROVEMENTS. THE REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

CONSTRUCTION NOTES

- ALL DIMENSIONS ARE TO FACE OF CURB OR CENTERLINE OF PAVEMENT MARKING UNLESS OTHERWISE NOTED.
- ALL CONSTRUCTION ACTIVITIES SHALL BE WITHIN THE RIGHT OF WAY LIMITS. CONTRACTOR TO VERIFY ALL RIGHT OF WAYS PRIOR TO CONSTRUCTION.
- PLACE CURB IN A MANNER THAT EXISTING STORM DRAIN INLETS ARE NOT BLOCKED FROM RECEIVING SURFACE FLOW.
- PLACE CURB SUCH THAT A CLEAR PATH IS PROVIDED BETWEEN ADJACENT CURB RAMPS AT AN INTERSECTION. ADA COMPLIANT PATH OF TRAVEL MUST BE A MINIMUM OF 5' WIDE.
- DIMENSIONS PROVIDED ON SHEETS PV-01 TO PV-09 ARE APPROXIMATE ONLY. LOCATIONS OF IMPROVEMENTS TO BE MARKED BY CONTRACTOR AND APPROVED BY CITY ENGINEER PRIOR TO INSTALLATION.
- PLACE ALL CURB WITH 1' MINIMUM RADIUS AT ANGLE POINTS.
- ALL EXISTING UTILITIES AND DRAINAGE FACILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
- THERE SHALL BE A MINIMUM OF 7' VERTICAL CLEARANCE FROM THE GROUND TO THE BOTTOM OF EACH SIGN INSTALLED PER 2014 CAMUTCD STANDARDS.
- ALL WORK SHALL CONFORM WITH THE CITY STANDARDS, THE 2014 CAMUTCD STANDARDS REVISION 6 AND 2022 CALTRANS STANDARD PLAN AND STANDARD SPECIFICATIONS AMENDED.
- ALL PROPOSED SIGNAGE ON CONCRETE TO BE INSTALLED ON NEW SIGN POST PER REDWOOD CITY STANDARD DETAIL T-4 AND ALL PROPOSED SIGNAGE ON SOIL TO BE INSTALLED ON NEW SIGN POST PER REDWOOD CITY STANDARD DETAIL T-4 & T-6, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
- AFTER INSTALLATION OF SIGNAGE, THE CONTRACTOR SHALL TRIM VEGETATION, AS NEEDED, TO ENSURE THAT WEEDS, TREES, OR SHRUBBERY DO NOT OBSCURE THE FACE OF ANY SIGN, AS SPECIFIED IN THE 2014 CAMUTCD STANDARDS.

REMOVAL NOTES

- CONTRACTOR SHALL OBLITERATE ALL EXISTING PAVEMENT MARKINGS THAT CONFLICTS WITH PILOT STRIPING OR BULB-OUT MARKINGS BY GRINDING.
- SAWCUT AND REMOVE PAVEMENT SECTION TO 1' DEPTH TO A NEAT LINE WITHOUT DAMAGING EXISTING AC OR CONCRETE THAT IS TO REMAIN IN PLACE. ANY DAMAGE TO THE ADJACENT SURFACE MATERIAL TO REMAIN MUST BE REPAIRED OR REPLACED TO A CONDITION SATISFACTORY TO THE ENGINEER AT CONTRACTOR'S EXPENSE.
- ALL EXISTING UTILITY FACILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
- ALL DRAINAGE FACILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.

CURB RAMP NOTES

- AT LOCATIONS WHERE R/W IS NOT IDENTIFIED, EXISTING BACK OF WALK SHALL BE ASSUMED AS RIGHT OF WAY LIMITS.
- LOCATE AND INSTALL DETECTABLE WARNING SURFACE AT OR BEHIND THE BACK OF CURB. DO NOT CUT DETECTABLE WARNING SURFACE TO MATCH BACK OF CURB RADIUS. INSTALL DETECTABLE WARNING SURFACE AS RECTANGULAR TILES, AS SHOWN ON PLANS.
- UNLESS OTHERWISE NOTED, PEDESTRIAN CURB RAMPS TO BE CONSTRUCTED PER 2022 CALTRANS STD PLAN AB8A REQUIREMENTS.
- EXISTING SURFACE EQUIPMENT (TRAFFIC SIGNAL POLES, BOXES, FIRE HYDRANTS, JOINT UTILITY POLES, etc.) TO REMAIN UNLESS OTHERWISE NOTED.
- PRIOR TO REMOVING EXISTING SIDEWALK, CONTRACTOR MUST VERIFY LOCATIONS OF EXISTING PRIVATE IRRIGATION SYSTEMS THAT MAY BE IMPACTED BY CONSTRUCTION. CONTRACTOR TO PROTECT ALL EXISTING IRRIGATION IMPROVEMENTS IN PLACE DURING CONSTRUCTION. IMMEDIATELY NOTIFY THE ENGINEER OF ANY EXISTING IRRIGATION THAT MAY CONFLICT WITH THE WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING IMPROVEMENTS THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS, INCLUDING THOSE NOT SPECIFICALLY REFERENCED IN THESE PLANS, UNLESS NOTED TO BE DONE BY OTHERS. OTHER THAN THE TEMPORARY REMOVAL OF LANDSCAPING, DO NOT REMOVE ANY IMPROVEMENTS BEHIND THE BACK OF SIDEWALK.
- REPLACE EXISTING CROSSWALK STRIPING WITHIN SAWCUT AREA WITH THERMOPLASTIC PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24F. MATCH EXISTING CROSSWALK TYPE AND COLOR.
- EXISTING SIDEWALK, CURB, AND GUTTER REMOVAL LIMITS AS SHOWN ON THESE PLANS ARE INTENDED TO BE LOCATED AT WEAKENED PLANE JOINT OR SCOREMARK. CONTRACTOR TO FIELD VERIFY AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.
- SAWCUT AND REMOVE PAVEMENT SECTION TO 12" DEPTH TO A NEAT LINE WITHOUT DAMAGING EXISTING AC OR CONCRETE THAT IS TO REMAIN IN PLACE. ANY DAMAGE TO THE ADJACENT SURFACE MATERIAL TO REMAIN MUST BE REPAIRED OR REPLACED TO A CONDITION SATISFACTORY TO THE ENGINEER AT CONTRACTOR'S EXPENSE.
- CONTRACTOR TO MARK OUT LIMITS OF ALL IMPROVEMENTS AND VERIFY WITH CITY ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
- RESTORE LANDSCAPING BEHIND BACK OF SIDEWALK TO PRE-CONSTRUCTION CONDITION. AREAS OF GRASS SHALL BE REPLACED WITH SOD. REPAIR ANY DAMAGE TO PRIVATE IRRIGATION SYSTEMS.
- ALL AREAS IDENTIFIED WITH NOTE 13 ARE CONFORM AREAS WITH A MAXIMUM 2% CROSS SLOPE AND MAXIMUM 5% RUNNING SLOPE. CONFORM CROSS SLOPE TO MATCH EXISTING.
- CONTRACTOR IS RESPONSIBLE FOR LAYING OUT THOSE CURB RAMPS WHERE VERTICAL CONTROL IS NOT PROVIDED, AS NECESSARY TO CONSTRUCT AN ADA-COMPLIANT CURB RAMP THAT COMPLIES WITH THE STANDARD PLANS REFERENCED. THAT WORK IS PAID FOR AS LAYOUT CURB RAMP. ENGINEER TO CONFIRM LOCATION OF CENTER OF RAMP PRIOR TO LAYING OUT CURB RAMP.
- CONTRACTOR TO COORDINATE TEMPORARY IMPACTS TO PRIVATE PROPERTY WITH PROPERTY OWNERS. CONTACT PROPERTY OWNER A MINIMUM OF ONE WEEK AHEAD OF ANY TEMPORARY DISTURBANCE TO PRIVATE IMPROVEMENTS NECESSARY TO DO THE WORK. RESTORE ALL PRIVATE LANDSCAPING AND IMPROVEMENTS TO PRE-CONSTRUCTION STATE AT THE END OF CONSTRUCTION.
- ALL AREAS IDENTIFIED WITH NOTE 16 ARE LANDING AREAS AND SHALL BE A MINIMUM DIMENSION OF 4' 2" X 4' 2" WITH A MAXIMUM SLOPE OF 1.5% IN ALL DIRECTIONS. UP TO 2% MAY BE USED WITH ADVANCE APPROVAL OF ENGINEER.
- LAYOUT CURB RAMP WITH THE INTENT TO PROTECT INLET IN-PLACE. PROVIDE MINIMUM GUTTER FLOW LINE SLOPE OF 0.4% WITH A MAXIMUM SLOPE ACROSS THE BOTTOM OF THE RAMP OF 1.5%. SAWCUT AND CONFORM TO EXISTING INLET APRON. NOTIFY THE ENGINEER IF A MINIMUM GUTTER SLOPE OF 0.4% CANNOT BE MET. THE ENGINEER DETERMINES IF THE EXISTING INLET TOP SHOULD BE RECONSTRUCTED AT A LOWER ELEVATION TO INCREASE GUTTER SLOPE. THIS WORK IS PAID FOR AS RECONSTRUCT STORM DRAIN INLET TOP.
- PLACEMENT OF SIGN POLE RELOCATION PER CA MUTCD GUIDELINES MAINTAIN MINIMUM 4'2" CLEAR BETWEEN SIGN POLE AND BACK OF WALK.

PAVEMENT MARKING NOTES

- ALL DIMENSIONS ARE TO CENTERLINE OF PAVEMENT MARKINGS.
- CONTRACTOR TO USE THERMOPLASTIC FOR ALL PAVEMENT MARKINGS UNLESS OTHERWISE NOTED.
- STRIPING TO FOLLOW THE LATEST CA MUTCD STANDARD DETAILS AND 2022 CALTRANS STANDARDS.

LEGEND

////////////////

=====

SD

SS

W

G

T

XX%

(XX%)±

SAWCUT

PROPOSED CURB

RIGHT OF WAY

GRADE BREAK

EXISTING STORM DRAIN

EXISTING SANITARY SEWER

EXISTING WATER

EXISTING GAS

EXISTING TELECOMMUNICATIONS

PCC SIDEWALK

LANDSCAPED AREA

DETECTABLE WARNING SURFACE

HMA PAVEMENT

CURB EXTENSION -- APPLY 2 COATS OF ACRYLIC TRAFFIC PAINT. (CITY TO CONFIRM PATTERN. VERIFY WITH CITY PRIOR TO CONSTRUCTION.)

PROPOSED GRADE (SHOWN FOR REFERENCE ONLY)

APPROXIMATE EXISTING GRADE

PROPOSED SIGN
SEE SIGNING AND STRIPING PLANS FOR DETAILS

PLANTER

EXISTING CURB INLET

EXISTING STORM MANHOLE

EXISTING SEWER MANHOLE

EXISTING FIRE HYDRANT

EXISTING WATER VALVE

EXISTING JOINT POLE

ABBREVIATIONS:

BC	BEGIN CURVE	PCC	POINT OF COMPOUND CURVATURE
Beg	BEGIN	PRC	POINT OF REVERSE CURVE
BOW	BACK OF WALK	PVI	POINT OF VERTICAL INTERSECTION
BP	BEGIN POINT	R	RADIUS
C	CENTERLINE	Ret	RETAINING
C&G	CURB AND GUTTER	RRFB	RECTANGULAR RAPID FLASHING BEACON
CP	CONTROL POINT	RSP	REVISED STANDARD PLAN
CONC	CONCRETE	RT	RIGHT
EC	END CURVE	R/W	RIGHT OF WAY
EG	EXISTING GRADE	SD	STORM DRAIN
ELEV	ELEVATION	SDCB	STORM DRAIN CATCH BASIN
EP	EDGE OF PAVEMENT	SE	SOUTHEAST
ETW	EDGE OF TRAVELED WAY	SL	STREET LIGHT
EX	EXISTING	SS	SANITARY SEWER
EC	END CURVE	SSWR	SANITARY SEWER
FG	FINSHED GRADE	SSMH	SANITARY SEWER MANHOLE
FH	FIRE HYDRANT	STA	STATION
FL	FLOW LINE	SW	SIDEWALK
FS	FINISHED SURFACE	T	TELECOMMUNICATIONS
G	GAS	TC	TOP OF CURB
GB	GRADE BREAK	TG	TOP OF GRATE
HP	HIGH POINT	VC	VERTICAL CURVE
LF	LINEAR FEET	W	WATER
LP	LOW POINT		
LT	LEFT		
MH	MANHOLE		
NE	NORTHEAST		
NW	NORTHWEST		
OFF	OFFSET		
PB	PULL BOX		

MONUMENT PRESERVATION

- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MONUMENTATION AND BENCHMARKS WHICH WILL BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER AS REQUIRED BY THE MOST CURRENT VERSION OF THE LAND SURVEYORS ACT.
- THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO SET TIES TO ANY MONUMENT THAT MAY BE DISTURBED OR LOST DURING THE COURSE OF THE WORK. SUCH TIES SHALL BE SET IN LOCATION THAT WILL NOT OTHERWISE BE DISTURBED.
- THE CONTRACTOR SHALL BEAR ALL COSTS OF SURVEY, RE-SURVEY, REFERENCE TIES, REPLACEMENT CORNERS, CORNER RECORDS, MAPPING, CHECKING RECORDING FEES WHICH MAY BE REQUIRED AS A RESULT OF LOSS OR DISTURBANCE OF MONUMENT WHICH MAY OCCUR DURING THE COURSE OF THE WORK.

Kimley»Horn

4637 CHABOT DRIVE, SUITE 300, PLEASANTON, CA 94588



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SUBMITTED	DATE	____	APPROVED	DATE	____
MALAHAT OWRANG			JESSICA MANZI, PE C71786		
SUBMITTED	DATE	____	APPROVED	DATE	____
ERIK ZHEN, PE 91442					
SUBMITTED	DATE	____	APPROVED	DATE	____
PETER DELGADO, PE 77980					

CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING AND TRANSPORTATION
CALIFORNIA

FILE NO:

SCALE: AS SHOWN

AUTOCAD DRAWING FILE:

ROOSEVELT AVENUE QUICK-BUILD
TRAFFIC CALMING PROJECT
GENERAL NOTES

GN-01

SHEET NO.	02
OF	
	29
SHEETS	

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DESIGNED	AKP	SUBMITTED	MALAHAT OWRANG	DATE	
DATE		SUBMITTED	ERIK ZHEN, PE 91442	DATE	
DELINEATED	SL	SUBMITTED	PETER DELGADO, PE 77980	DATE	
DATE		DATE		DATE	
CHECKED	BZH	APPROVED		DATE	

APPROVED	JESSICA MANZI, PE C71786	DATE	
APPROVED		DATE	
APPROVED		DATE	

CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING AND TRANSPORTATION
CALIFORNIA

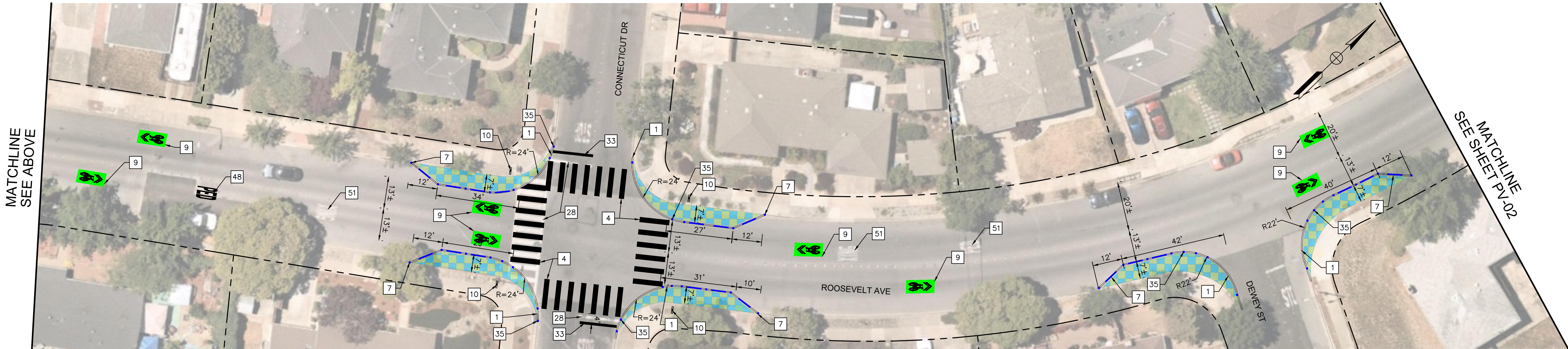
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ROOSEVELT AVENUE QUICK-BUILD
TRAFFIC CALMING PROJECT
LAYOUT PLANS

PV-01

SHEET NO.	04
OF	29
SHEETS	

DRAWING NO. _____

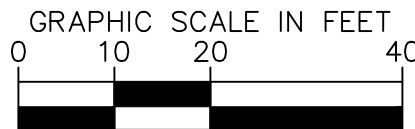


CONSTRUCTION NOTES

1. INSTALL 4" DOUBLE WHITE STRIPES AND PAINTED CURB EXTENSION PER DETAIL 4 ON CD-04.
4. INSTALL 12" BY 2' WIDE WHITE CONTINENTAL CROSSWALK SPACED @ 4' O.C.
7. INSTALL RUBBER CURB WITH DELINEATOR POST PER DETAIL ON SHEET CD-04.
9. INSTALL WHITE SHARED BICYCLE PAVEMENT MARKING WITH GREEN BACK PER CALTRANS STD PLAN A24C.
10. INSTALL RRFB PER DETAIL ON SHEET CD-04.
16. INSTALL BIKE CROSSING PER DETAIL ON SHEET CD-05.
28. REMOVE EXISTING PAVEMENT MARKING.
33. INSTALL STOP BAR SPACED 4 FT FROM CROSSWALK.
35. INSTALL DELINATOR POST SPACED AT 5' INTERVALS.
48. INSTALL PED PAVEMENT MARKING PER CALTRANS STD PLAN A24D.
51. MAINTAIN EXISTING STRIPING.

NOTE

1. THE CONTRACTOR SHALL POT-HOLE THE RRFB FOOTING LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF CONFLICTS. ENGINEER TO IDENTIFY NEW LOCATION OF RRFB AND CONTRACTOR TO POT-HOLE NEW LOCATION AT CONTRACTOR'S EXPENSE.
2. CONTRACTOR TO REMOVE EXISTING STRIPING AND PAVEMENT MARKING IN CONFLICT WITH PROPOSED STRIPING AND PAVEMENT MARKINGS.
3. ALL STRIPING AND PAVEMENT MARKINGS TO BE THERMOPLASTIC UNLESS OTHERWISE SHOWN.
4. RIGHT OF WAY LINES, BEYOND THE MCGARVEY AND ROOSEVELT AVENUE INTERSECTION ARE SCHEMATIC AND BASED ON COUNTY GIS



Kimley»Horn

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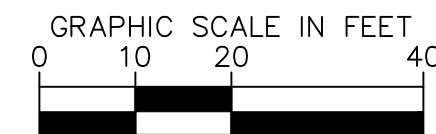
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							DELINEATED	SL
							DATE	
DATE	SYMBOL		REVISIONS	BY	CHECKED	APPROVED	CHECKED	BZH

1. INSTALL 4" DOUBLE WHITE STRIPES AND PAINTED CURB EXTENSION PER DETAIL 4 ON CD-04.
4. INSTALL 12" BY 2' WIDE WHITE CONTINENTAL CROSSWALK SPACED @ 4' O.C.
7. INSTALL RUBBER CURB WITH DELINEATOR POST PER DETAIL ON SHEET CD-04.
9. INSTALL WHITE SHARED BICYCLE PAVEMENT MARKING WITH GREEN BACK PER CALTRANS STD PLAN A24C.
14. INSTALL WHITE ARROWS PER CALTRANS STD PLAN A24A ON SHEET CD-06.
15. INSTALL CURB RAMP PER 2022 CALTRANS STANDARD DETAIL RSP A88A, CURB RAMP CASE PER PLANS. SEE CURB RAMP NOTES ON GN-01.
17. PAINT RED CURB.
18. INSTALL BELSON RP SERIES CONCRETE PLANTERS AT 15' SPACING WITH TOURNESOL CWC-1600/CWM-114-2K SELF-WATERING INSERTS OR APPROVED EQUIVALENT. INSTALL 5 GALLON AGAVE AMERICANA MARGINATA OR APPROVED EQUIVALENT IN PLANTERS. (VERIFY WITH CITY PRIOR TO CONSTRUCTION.)
20. INSTALL DELINEATOR POST PER DETAIL ON SHEET CD-04.
28. REMOVE EXISTING PAVEMENT MARKING.
29. INSTALL PAVEMENT MARKING PER CALTRANS STANDARD PLAN ON SHEET CD-06 & CD-07.
31. INSTALL 6" WHITE STRIPE PER CALTRANS STD PLAN A20D.

33. INSTALL STOP BAR SPACED 4 FT FROM CROSSWALK.
34. RELOCATE BUS STOP SIGN.
35. INSTALL DELINATOR POST SPACED AT 5' INTERVALS.
36. INSTALL YELLOW LADDER CROSSWALK PER CALTRANS STD PLAN A24F.
37. INSTALL ADA COMPLIANT PATH ON VEGETATION.
38. INSTALL DELINEATOR POST SPACED AT 3' INTERVALS.
51. MAINTAIN EXISTING STRIPING.

NOTE

1. THE CONTRACTOR SHALL POTHOLE THE RRFB FOOTING LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF CONFLICTS. ENGINEER TO IDENTIFY NEW LOCATION OF RRFB AND CONTRACTOR TO POTHOLE NEW LOCATION AT CONTRACTOR'S EXPENSE.
2. CONTRACTOR TO REMOVE EXISTING STRIPING AND PAVEMENT MARKING IN CONFLICT WITH PROPOSED STRIPING AND PAVEMENT MARKINGS.
3. ALL STRIPING AND PAVEMENT MARKINGS TO BE THERMOPLASTIC UNLESS OTHERWISE SHOWN.



Kimley»Horn

4637 CHABOT DRIVE, SUITE 300, PLEASANTON, CA 94588

CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING AND TRANSPORTATION
CALIFORNIA

FILE NO: SCALE: AS SHOWN AUTOCAD DRAWING FILE:

ROOSEVELT AVENUE QUICK-BUILD
TRAFFIC CALMING PROJECT
LAYOUT PLANS

PV-03

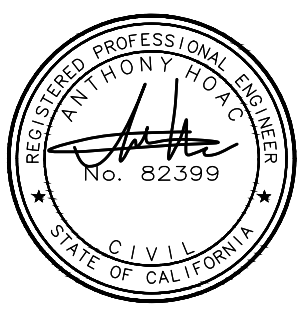
SHEET NO.
06
OF
29
SHEETS

DRAWING NO.

Apr 27, 2023 - 8:49am - USER: Katherine.Schmidt
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DATE	
DESIGNED	AKP
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SUBMITTED	DATE	APPROVED	DATE
MALAHAT OWRANG		JESSICA MANZI, PE C71786	
SUBMITTED	DATE	APPROVED	DATE
ERIK ZHEN, PE 91442			
SUBMITTED	DATE	APPROVED	DATE
PETER DELGADO, PE 77980			

CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING AND TRANSPORTATION
CALIFORNIA

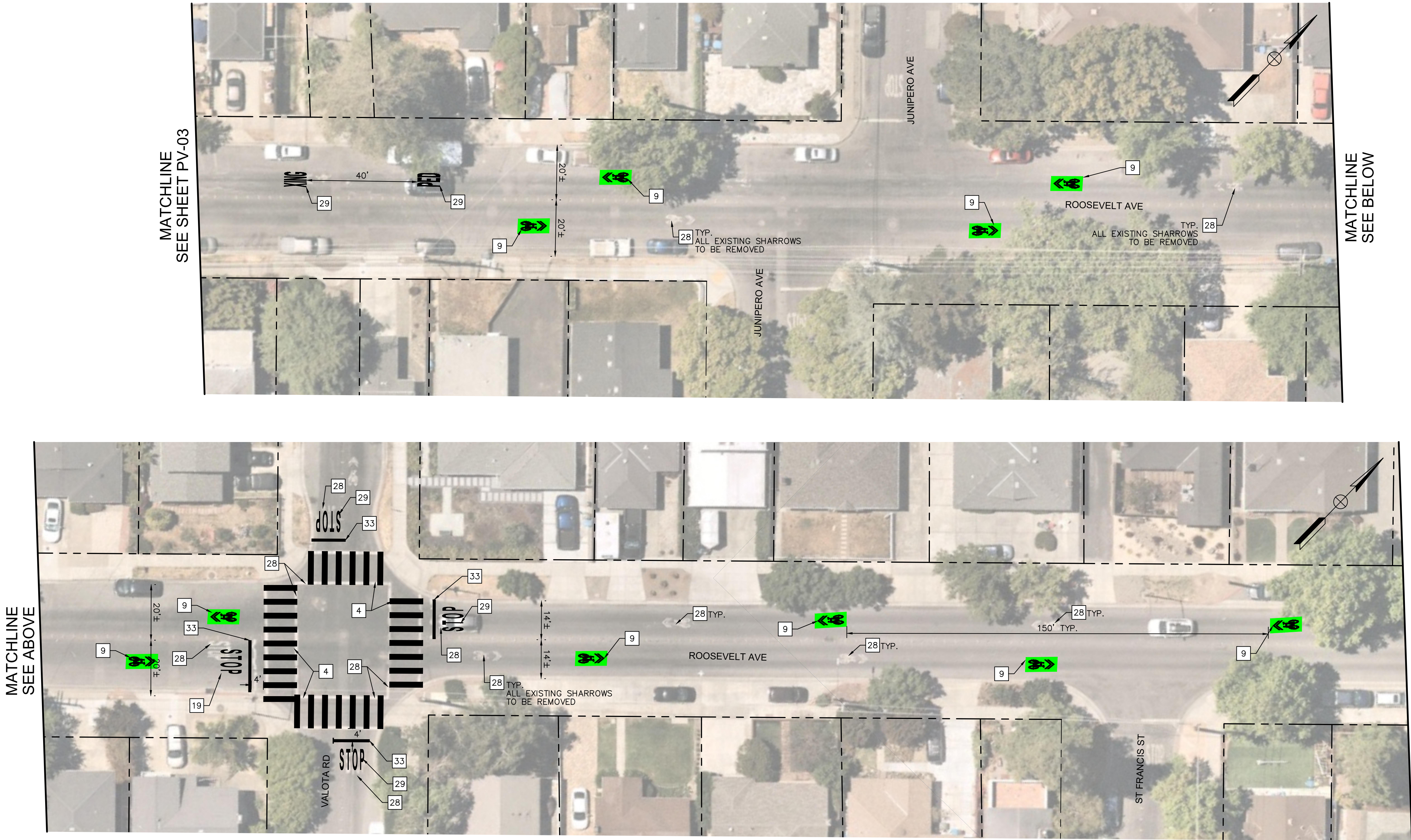
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ROOSEVELT AVENUE QUICK-BUILD
TRAFFIC CALMING PROJECT
LAYOUT PLANS

PV-04

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OF	29
SHEETS	

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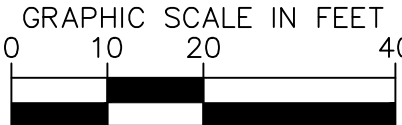


CONSTRUCTION NOTES

- 4 INSTALL 12' BY 2' WIDE WHITE CONTINENTAL CROSSWALK SPACED @ 4' O.C.
- 9 INSTALL WHITE SHARED BICYCLE PAVEMENT MARKING WITH GREEN BACK PER CALTRANS STD PLAN A24C.
- 19 INSTALL PAVEMENT MARKING PER CALTRANS STD PLAN A24D.
- 28 REMOVE EXISTING PAVEMENT MARKING.
- 29 INSTALL PAVEMENT MARKING PER CALTRANS STANDARD PLAN ON SHEET CD-06 & CD-07.
- 33 INSTALL STOP BAR SPACED 4 FT FROM CROSSWALK.

NOTE

- 1. THE CONTRACTOR SHALL POTHOLE THE RFB FOOTING LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF CONFLICTS. ENGINEER TO IDENTIFY NEW LOCATION OF RFB AND CONTRACTOR TO POTHOLE NEW LOCATION AT CONTRACTOR'S EXPENSE.
- 2. CONTRACTOR TO REMOVE EXISTING STRIPING AND PAVEMENT MARKING IN CONFLICT WITH PROPOSED STRIPING AND PAVEMENT MARKINGS.
- 3. ALL STRIPING AND PAVEMENT MARKINGS TO BE THERMOPLASTIC UNLESS OTHERWISE SHOWN.



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							DATE		SUBMITTED	DATE	APPROVED	DATE
									MALAHAT OWRANG		JESSICA MANZI, PE C71786	
							DESIGNED	AKP				
							DATE		SUBMITTED	DATE	APPROVED	DATE
									ERIK ZHEN, PE 91442			
							DELINEATED	SL				
							DATE		SUBMITTED	DATE	APPROVED	DATE
									PETER DELGADO, PE 77980			
DATE	SYMBOL	REVISIONS				BY	CHECKED	APPROVED	CHECKED	BZH		

CONSTRUCTION NOTES

- [9] INSTALL WHITE SHARED BICYCLE PAVEMENT MARKING WITH GREEN BACK PER CALTRANS STD PLAN A24C.
- [12] INSTALL SPEED CUSHION PER DETAIL ON SHEET CD-04.
- [28] REMOVE EXISTING PAVEMENT MARKING.
- [29] INSTALL PAVEMENT MARKING PER CALTRANS STANDARD PLAN ON SHEET CD-06 & CD-07.
- [46] INSTALL SIGN.
- [51] MAINTAIN EXISTING STRIPING.

NOTE

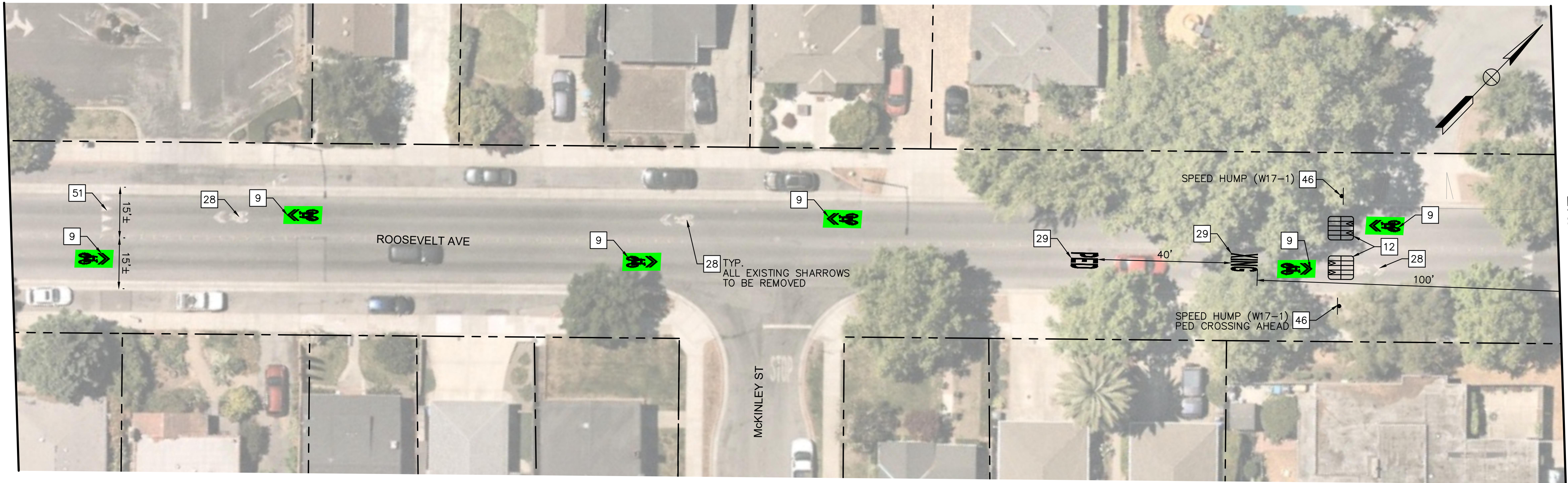
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3. ALL STRIPING AND PAVEMENT MARKINGS TO BE THERMOPLASTIC UNLESS OTHERWISE SHOWN.

MATCHLINE
SEE SHEET PV-04

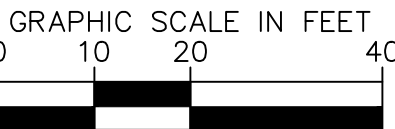


MATCHLINE
SEE BELOW

MATCHLINE
SEE ABOVE



MATCHLINE
SEE SHEET PV-06



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CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
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FILE NO: SCALE: AS SHOWN AUTOCAD DRAWING FILE:

ROOSEVELT AVENUE QUICK-BUILD
TRAFFIC CALMING PROJECT
LAYOUT PLANS

PV-05

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DATE	SYMBOL	REVISIONS	BY	CHECKED	APPROVED	CHECKED	BZH

SUBMITTED	DATE
MALAHAT OWRANG	
SUBMITTED	DATE
ERIK ZHEN, PE 91442	
SUBMITTED	DATE
PETER DELGADO, PE 77980	

APPROVED	DATE
JESSICA MANZI, PE C71786	
APPROVED	DATE
APPROVED	DATE

CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING AND TRANSPORTATION
CALIFORNIA

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ROOSEVELT AVENUE QUICK-BUILD TRAFFIC CALMING PROJECT LAYOUT PLANS

PV-06

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SHEETS

GRAPHIC SCALE IN FEET

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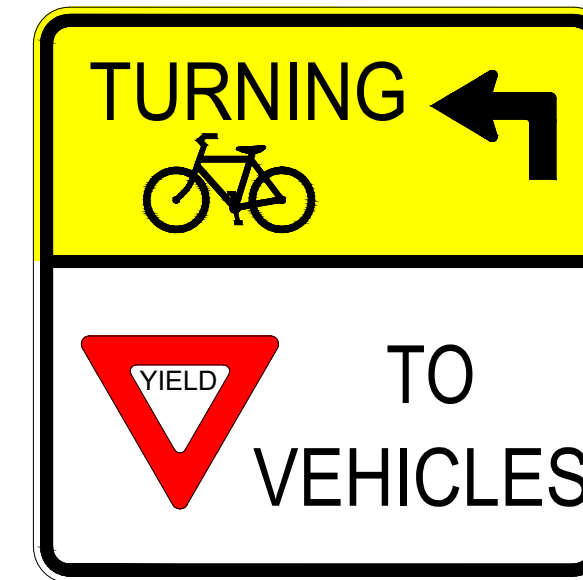
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SUBMITTED	DATE
MALAHAT OWRANG	
SUBMITTED	DATE
ERIK ZHEN, PE 91442	
SUBMITTED	DATE
PETER DELGADO, PE 77980	

APPROVED	DATE _____
JESSICA MANZI, PE C71786	
APPROVED	DATE _____
APPROVED	DATE _____

CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING AND TRANSPORTATION
CALIFORNIA

FILE NO:	SCALE: AS SHOWN	AUTOCAD DRAWING FILE:
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SIGN DETAIL
MODIFIED R10-15

ROOSEVELT AVENUE QUICK-BUILD TRAFFIC CALMING PROJECT LAYOUT PLANS

PV-07

SHEET NO.
10
— OF —
29
SHEETS

GRAPHIC SCALE IN FEET

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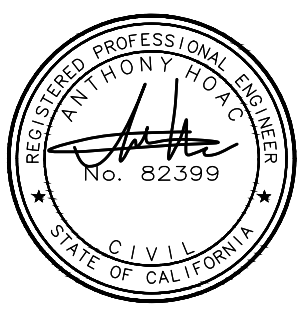
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DESIGNED	AKP	SUBMITTED	MALAHAT OWRANG	DATE		APPROVED	JESSICA MANZI, PE C71786	DATE	
DELINEATED	SL	SUBMITTED	ERIK ZHEN, PE 91442	DATE		APPROVED		DATE	
CHECKED	BZH	SUBMITTED	PETER DELGADO, PE 77980	DATE		APPROVED		DATE	

CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING AND TRANSPORTATION
CALIFORNIA

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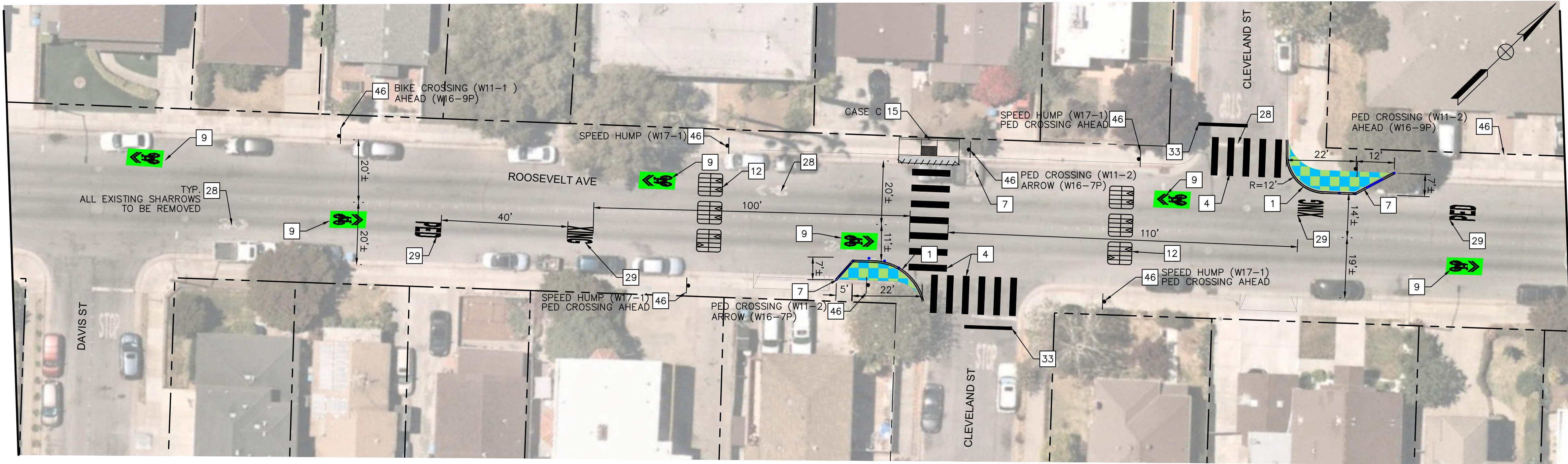
ROOSEVELT AVENUE QUICK-BUILD
TRAFFIC CALMING PROJECT
LAYOUT PLANS

PV-08

SHEET NO.	11
OF	29
SHEETS	

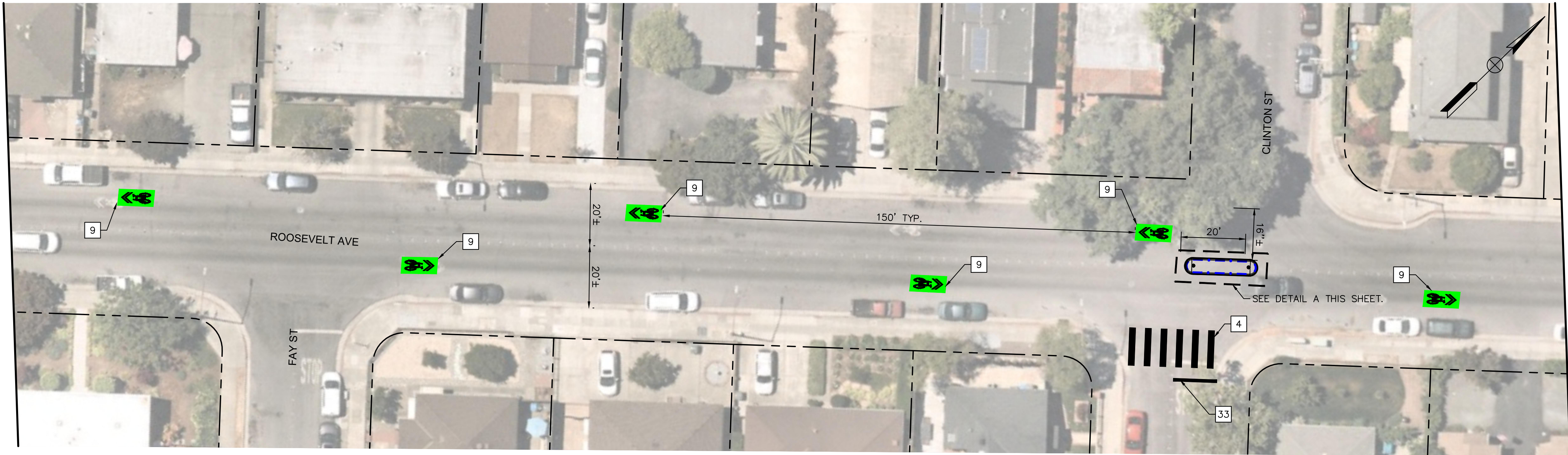
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MATCHLINE
SEE SHEET PV-07



MATCHLINE
SEE BELOW

MATCHLINE
SEE ABOVE



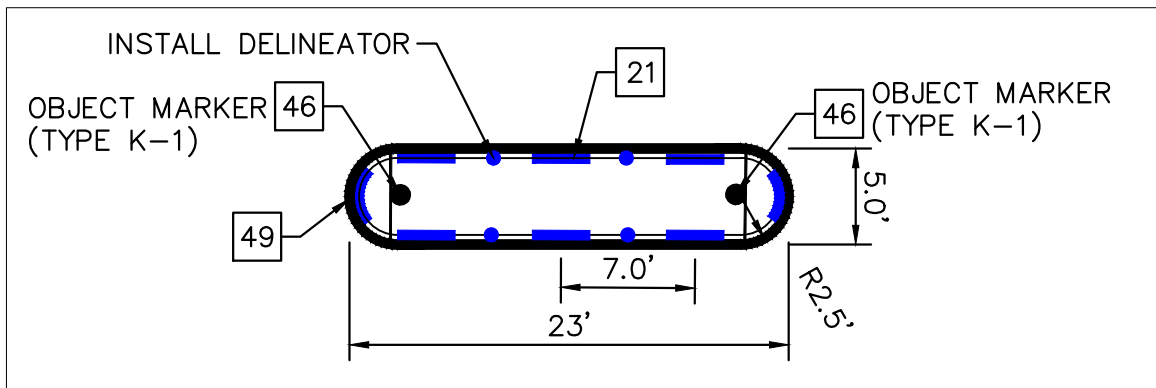
MATCHLINE
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CONSTRUCTION NOTES

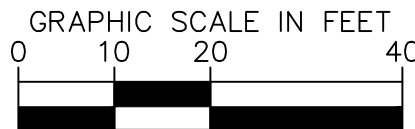
1. INSTALL 4" DOUBLE WHITE STRIPES AND PAINTED CURB EXTENSION PER DETAIL 4 ON CD-04.
4. INSTALL 12' BY 2' WIDE WHITE CONTINENTAL CROSSWALK SPACED @ 4' O.C.
7. INSTALL RUBBER CURB WITH DELINEATOR POST PER DETAIL ON SHEET CD-04.
9. INSTALL WHITE SHARED BICYCLE PAVEMENT MARKING WITH GREEN BACK PER CALTRANS STD PLAN A24C.
12. INSTALL SPEED CUSHION PER DETAIL ON SHEET CD-04.
15. INSTALL CURB RAMP PER 2022 CALTRANS STANDARD DETAIL RSP A88A. CURB RAMP CASE PER PLANS. SEE CURB RAMP NOTES ON GN-01.
21. INSTALL RUBBER CURB MEDIAN TREATMENT.
28. REMOVE EXISTING PAVEMENT MARKING.
29. INSTALL PAVEMENT MARKING PER CALTRANS STANDARD PLAN ON SHEET CD-06 & CD-07.
33. INSTALL STOP BAR SPACED 4 FT FROM CROSSWALK.
46. INSTALL SIGN.
49. INSTALL CALTRANS DETAIL 24 STRIPE.

NOTE

1. THE CONTRACTOR SHALL POTHOLE THE RRFB FOOTING LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF CONFLICTS. ENGINEER TO IDENTIFY NEW LOCATION OF RRFB AND CONTRACTOR TO POTHOLE NEW LOCATION AT CONTRACTOR'S EXPENSE.
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DETAIL A



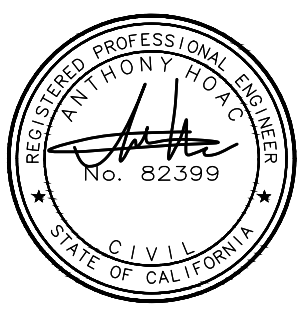
Kimley»Horn

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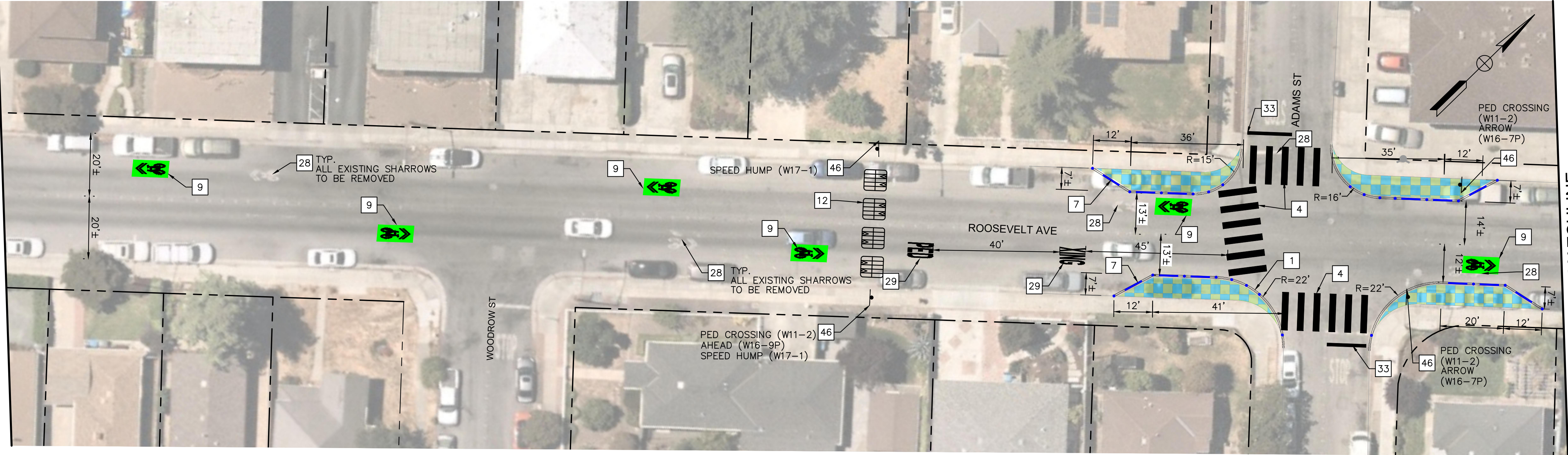
DATE		DATE		DATE	

CITY OF REDWOOD CITY COMMUNITY DEVELOPMENT DEPARTMENT ENGINEERING AND TRANSPORTATION CALIFORNIA		
FILE NO:	SCALE: AS SHOWN	AUTOCAD DRAWING FILE:

ROOSEVELT AVENUE QUICK-BUILD TRAFFIC CALMING PROJECT LAYOUT PLANS	SHEET NO.
	12
	OF
PV-09	29
	SHEETS

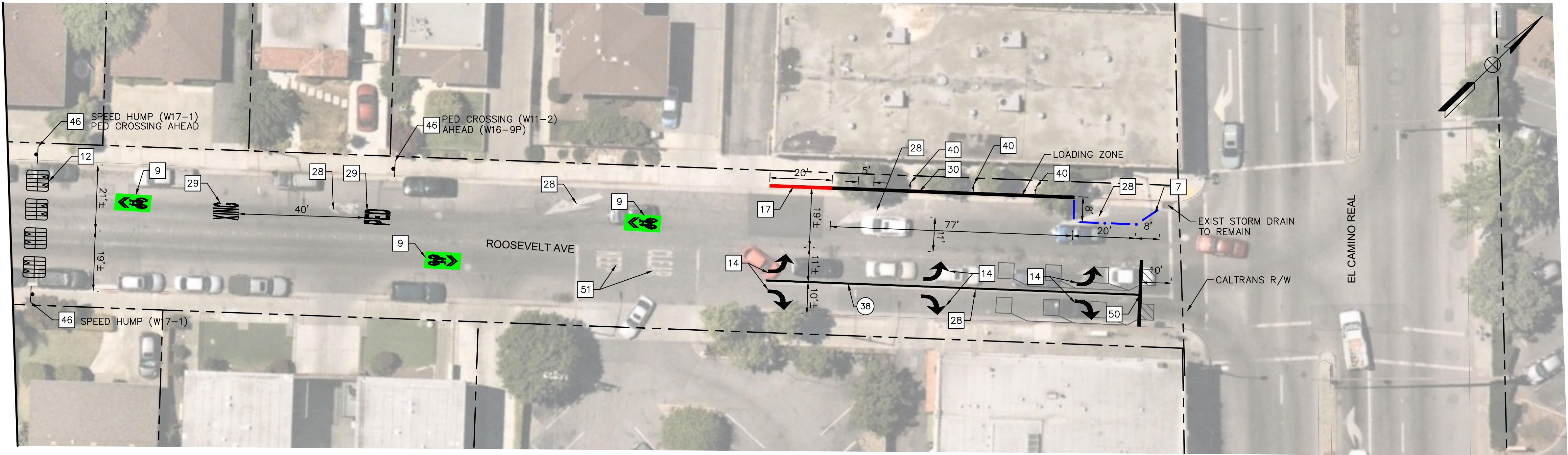
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MATCHLINE
SEE SHEET PV-08



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MATCHLINE
SEE ABOVE

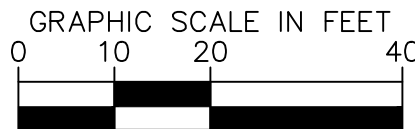


CONSTRUCTION NOTES

1. INSTALL 4" DOUBLE WHITE STRIPES AND PAINTED CURB EXTENSION PER DETAIL 4 ON CD-04.
4. INSTALL 12" BY 2" WIDE WHITE CONTINENTAL CROSSWALK SPACED @ 4' O.C.
7. INSTALL RUBBER CURB WITH DELINEATOR POST PER DETAIL ON SHEET CD-04.
9. INSTALL WHITE SHARED BICYCLE PAVEMENT MARKING WITH GREEN BACK PER CALTRANS STD PLAN A24C.
12. INSTALL SPEED CUSHION PER DETAIL ON SHEET CD-04.
14. INSTALL WHITE ARROWS PER CALTRANS STD PLAN A24A ON SHEET CD-06.
17. PAINT RED CURB.
28. REMOVE EXISTING PAVEMENT MARKING.
29. INSTALL PAVEMENT MARKING PER CALTRANS STANDARD PLAN ON SHEET CD-06 & CD-07.
30. INSTALL YELLOW CURB.
33. INSTALL STOP BAR SPACED 4 FT FROM CROSSWALK.
40. INSTALL LOADING ZONE SIGN.
46. INSTALL SIGN.
50. INSTALL 12" WHITE PAVEMENT MARKING.
51. MAINTAIN EXISTING STRIPING.

NOTE

1. THE CONTRACTOR SHALL POTHOLE THE RRFB FOOTING LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF CONFLICTS. ENGINEER TO IDENTIFY NEW LOCATION OF RRFB AND CONTRACTOR TO POTHOLE NEW LOCATION AT CONTRACTOR'S EXPENSE.
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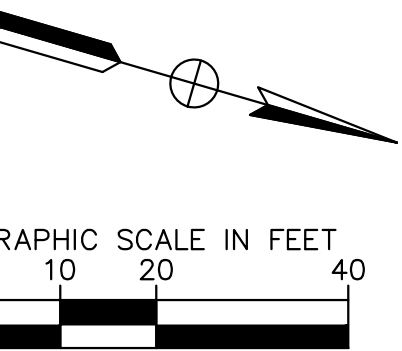
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06/06/23	ADDENDUM 1	AH	AH	AH	DATE	SUBMITTED	DATE	APPROVED	DATE
					DESIGNED	MALAHAT OWRANG		JESSICA MANZI, PE C71786	
					DATE			APPROVED	DATE
					DELINEATED	ERIK ZHEN, PE 91442			
					DATE			APPROVED	DATE
DATE	SYMBOL	REVISIONS	BY	CHECKED	APPROVED	CHECKED	BZH		
						SUBMITTED	DATE	APPROVED	DATE
						PETER DELGADO, PE 77980			

CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING AND TRANSPORTATION
CALIFORNIA

FILE NO: SCALE: AS SHOWN AUTOCAD DRAWING FILE:



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ROOSEVELT AVENUE QUICK-BUILD
TRAFFIC CALMING PROJECT
HORIZONTAL CONTROL

HC-01

SHEET NO.
13
OF
29
SHEETS

NOTES

- THE COORDINATE SYSTEM IS BASED ON A RTK GPS ESTABLISHED CONTROL NETWORK ON SITE, USING NAD83 CCS ZONE 3 COORDINATES (EPOCH 2010.00). BASELINE CONTROL POINTS ESTABLISHED ON-SITE ARE LCC CP #101 (N 1996551.78, E 6056176.01 - GPS COORDINATE HELD HERE), A SET CROSS ON THE SIDEWALK AT THE SOUTHWESTERLY RETURN OF THE INTERSECTION OF ROOSEVELT AVENUE AND MCGARVEY AVENUE (AS SHOWN), AND LCC CP #102 (N 1997037.08, E 6056213.84), A SET MAGNETIC NAIL (APPROXIMATELY 490FT NORTHERLY OF CP#101) IN THE SIDEWALK AT THE SOUTHWESTERLY RETURN OF THE INTERSECTION OF ROOSEVELT AVENUE AND UPTON STREET (CP #102). DISTANCES AND COORDINATES AS SHOWN ON THIS SURVEY SHOULD BE CONSIDERED AS GROUND DISTANCES AND COORDINATES.
- ELEVATIONS ARE BASED ON REDWOOD CITY BENCHMARK #32, A 2" DIAMETER BRASS DISK SET IN THE TOP OF THE CURB ON THE SOUTHWESTERLY SIDE OF UPTON STREET (BENCHMARK IS SET 3.5FT FROM A STREET LIGHT, APPROXIMATELY 250FT NORTHWESTERLY OF THE INTERSECTION OF UPTON STREET AND ROOSEVELT AVENUE). BENCHMARK CONTROL NETWORK PROVIDED BY THE CITY OF REDWOOD CITY, ELEVATION OF BENCHMARK #32 HELD AS 51.9956 FT (PER RECORD). LOCAL SITE BENCHMARK HELD AT CP #101 (SEE NOTE 1 FOR DESCRIPTION). CP #101 ELEV HELD AS 66.56 FT.
- UTILITIES SHOWN ARE BASED UPON SURFACE OBSERVATIONS OF STRUCTURES AND USA MARKINGS FOUND IN FIELD IF APPLICABLE. SOME UNDERGROUND UTILITIES MAY NOT BE SHOWN
- THE BOUNDARY (PROPERTY) LINES SHOWN ON THIS EXHIBIT ARE BASED ON SANTA CLARA COUNTY RECORD MAPS: REDWOOD TERRACE NO.1 AND REDWOOD TERRACE NO.4)
- THIS SURVEY DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY. THE BOUNDARY (PROPERTY) LINES SHOWN ARE BASED ON FOUND STREET MONUMENTS IN THE SURROUNDING SUBDIVISIONS PER THE LISTED RECORD MAPS. ALL PROPERTY CORNERS HAVE NOT BEEN SEARCHED FOR OR LOCATED. NEW CORNERS OR MONUMENTS HAVE NOT BEEN SET DURING THIS SURVEY. FURTHER SURVEY AND BOUNDARY ANALYSIS WOULD BE REQUIRED TO DETERMINE THE LOCATION OF PROPERTY LINES WITH GREATER ACCURACY, IF REQUIRED.

LINE TABLE			
LINE	DESCRIPTION	LENGTH	BEARING
L1	"RO" LINE	204.65	N16°13'32.44"W
L2	"MA" LINE	172.33	N84°46'27.56"E

CURVE TABLE							
CURVE	DESCRIPTION	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	"RO" LINE	400.00'	180.90'	N3°16'10"W	179.36'	25°54'45"	92.03'
C2	"MA" LINE	300.00'	103.30'	N74°54'36"E	102.79'	19°43'44"	52.17'

Point Table						
Point #	Elevation	Northing	Easting	Description	STATION*	OFFSET
A	66.56	1996551.78	6056176.01	CP CUT +	11+22.82	37.46' LT
B	61.25	1996807.17	6056141.68	CP MAG	13+68.26	34.93' LT

* ALL STATION AND OFFSETS ARE BASED ON "RO" ALIGNMENT



4 — 0.33' PCC
0.33' AB



SHEET NO.
14
— OF —
29
SHEETS

Kimley»»Horn
4637 CHABOT DRIVE, SUITE 300, PLEASANTON, CA 94588

Jun 06, 2023 - 5:45pm - USER: Katherine.Schmidt
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06/06/23	ADDENDUM 1	AH	AH	AH	DATE	SUBMITTED	DATE	APPROVED	DATE
					DESIGNED	MALAHAT OWRANG		JESSICA MANZI, PE C71786	
					DATE				
					DELINEATED	ERIK ZHEN, PE 91442			
					DATE				
DATE	SYMBOL	REVISIONS	BY	CHECKED	APPROVED	CHECKED	BZH		

DATE	SUBMITTED	DATE	APPROVED	DATE
	MALAHAT OWRANG		JESSICA MANZI, PE C71786	
	ERIK ZHEN, PE 91442			
	SUBMITTED	DATE	APPROVED	DATE
	PETER DELGADO, PE 77980			

CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING AND TRANSPORTATION
CALIFORNIA

FILE NO: SCALE: AS SHOWN AUTOCAD DRAWING FILE:

ROOSEVELT AVENUE QUICK-BUILD
TRAFFIC CALMING PROJECT
DEMOLITION PLAN - ROUNDABOUT

DM-01

SHEET NO.	15
OF	29
SHEETS	

DRAWING NO.

LEGEND

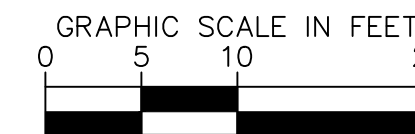
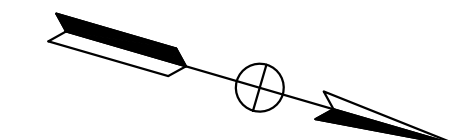
////	SAWCUT
■	ROADWAY EXCAVATION
▨	REMOVE EXISTING PCC (SIDEWALK, CURB, GUTTER, & CURB RAMP)
▩	CLEAR AND GRUB

GENERAL NOTES

- ALL TREES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE SPECIFIED IN THE PLANS.
- ALL EXISTING LANDSCAPING TO BE RESTORED TO EXISTING CONDITION OR REPLACED IN KIND.
- WHERE SAWCUT IS REQUIRED AT THE LIP OF EXISTING CURB AND GUTTER, THE CONTRACTOR SHALL SAWCUT A MINIMUM OF 8" IN EFFORT TO PRESERVE THE EXISTING ASPHALT PAVEMENT. THE CONTRACTOR SHALL PROTECT THE EXISTING ASPHALT PAVEMENT IN PLACE AND PROVIDE A SMOOTH EDGE FOR CURB AND GUTTER REPLACEMENT.
- FULL DEPTH REPLACEMENT IN THE CITY OF REDWOOD CITY TO MATCH EXISTING SECTION OR FURTHER DEFINED BY CITY ENGINEER.
- SAWCUT AND REMOVE PAVEMENT SECTION TO 0.5' DEPTH TO A NEAT LINE WITHOUT DAMAGING EXISTING AC OR CONCRETE THAT IS TO REMAIN IN PLACE. ANY DAMAGE TO THE ADJACENT SURFACE MATERIAL TO REMAIN MUST BE REPAIRED OR REPLACED TO A CONDITION SATISFACTORY TO THE ENGINEER AT CONTRACTOR'S EXPENSE.
- CURB, PAVEMENT, AND SIDEWALK REMOVAL LIMITS MAY VARY FROM THE DM PLANS DUE TO CHANGES IN REMOVAL LIMITS AS FOLLOWS. REMOVE EXISTING SIDEWALK, CURB, AND GUTTER AT A SCOREMARK OR WEAKENED PLANE JOINT NEAREST TO LIMITS SHOWN ON THESE PLANS. EXACT LIMITS TO BE DETERMINED IN THE FIELD BY ENGINEER AND CONTRACTOR.
- REMOVE ALL EXISTING STRIPING WITHIN AREA OF PROPOSED STRIPING.
- SEE LAYOUT PLAN FOR UTILITY ADJUSTMENTS.

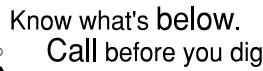
DEMOLITION NOTES

- EXISTING TREE TO BE REMOVED.
- REMOVE EXISTING CURB AND GUTTER.
- ADJUST FACILITY TO FINISHED GRADE.
- EXISTING FACILITY TO REMAIN. PROTECT IN PLACE.
- EXISTING SIGN TO REMAIN.
- ADJUST TOP OF INLET TO GRADE.
- REMOVE EXISTING FACILITY.
- CONTRACTOR TO VERIFY UTILITY CONFLICTS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO CLOSE EXISTING VALVE AND ABANDON CAP PER W-44. CONTRACTOR TO REMOVE EXISTING HYDRANT, BURY AND LATERAL. CONTRACTOR TO REMOVE EXISTING VALVE BOX AND RISER.



Kimley»Horn

4637 CHABOT DRIVE, SUITE 300, PLEASANTON, CA 94588

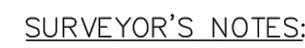
[illegible]

APPROVED	DATE
JESSICA MANZI, PE C71786	
APPROVED	DATE
APPROVED	DATE

FILE NO:	SCALE: AS SHOWN	AUTOCAD DRAWING FILE:
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SV-01




































SHEET NO.
16
— OF —
29
SHEETS



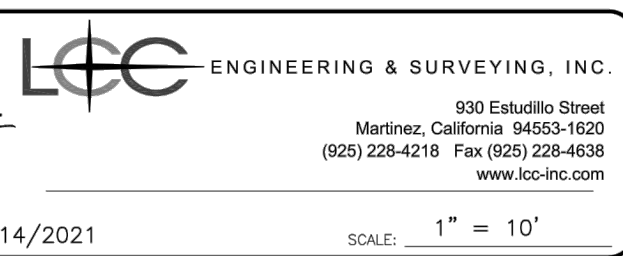
1. THE COORDINATE SYSTEM BASED ON A RTK GPS ESTABLISHED CONTROL NETWORK ON SITE, USING NAD83 CSZ CONE 3 COORDINATES (EPOCH 2010.00). BASELINE CONTROL POINTS ESTABLISHED—ON SITE ARE LOC CP #1 (N 965655.78, E 6056178.01) —GPS COORDINATE HAD HERE, A SET OUT CORNER ON THE SIDEWALK AT THE SOUTHEASTELY RETURN OF THE SOUTHWESTELY TURN OF THE INTERSECTION OF UPTON STREET AND BENCHMARK AVENUE (E 6056178.01, N 965655.78). A SET METAGNIC NAIL (APPROXIMATELY 460FT NORTHERLY OF CP#01) IN THE SIDEWALK AT THE SOUTHEASTELY RETURN OF THE INTERSECTION OF ROOSEVELT AVENUE AND UPTON STREET (CP #102 NOT SHOWN IN THIS EXHIBIT). DISTANCES AND COORDINATES AS SHOWN ON THIS SURVEY SHOULD BE CONSIDERED AS GROUND DISTANCES AND COORDINATES.
2. ELEVATIONS ARE BASED ON REDWOOD CITY BENCHMARK #32. A 2" DIAMETER BRASS DISK SET IN THE TOP OF THE CURB ON THE SOUTHWESTELY TURN OF THE INTERSECTION OF UPTON STREET AND BENCHMARK AVENUE (ELEVATION 51.250 FT) NORTHEASTLY OF THE INTERSECTION OF UPTON STREET & BENCHMARK AVENUE). BENCHMARK CONTROL NETWORK PROVIDED BY THE CITY OF REDWOOD CITY. ELEVATION OF BENCHMARK #32 HELD AS 51.956 FT (PER RECORD). LOCAL SITE BENCHMARK HELD AT CP #101 (SEE NOTE 1 FOR DESCRIPTION). CP #101 ELEV HELD AS 50.658 FT.
3. UTILITIES SHOWN ARE BASED UPON SURFACE OBSERVATIONS OF STRUCTURES AND USA MARKINGS FOUND IN FIELD IF AVAILABLE. THIS INCLUDES BUT IS NOT LIMITED TO: POWER, GAS, WATER, SEWER, CABLE, AND TELEPHONE. THE LOCATION, DEPTH, CAPACITIES OR FUNCTIONALITY OF ALL UTILITIES SHOWN HEREON. SOME UNDERGROUND UTILITIES MAY NOT BE SHOWN.
4. THE BOUNDARY (PROPERTY) LINES SHOWN ON THIS EXHIBIT ARE BASED ON SANTA CLARA COUNTY RECORD MAPS: REDWOOD TERRACE NO.1 AND REDWOOD TERRACE NO.4
5. THIS SURVEY DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY. THE BOUNDARY (PROPERTY) LINES SHOWN ARE BASED ON FOUND STREET MONUMENTS IN THE SURROUNDING SUBDIVISIONS PER THE LISTED RECORD MAPS — NOT ALL FOUND MONUMENTS ARE SHOWN ON THIS EXHIBIT. ALL PROPERTY CORNERS HAVE NOT BEEN SEARCHED FOR OR LOCATED. NEW PROPERTY CORNERS OR MONUMENTS MAY BE FOUND. A COMPLETE BOUNDARY SURVEY OR AN ADDITIONAL SURVEY WOULD BE REQUIRED TO DETERMINE THE LOCATION OF PROPERTY LINES WITH GREATER ACCURACY, IF REQUIRED.

N.T.S.



— — — — —	Property (Boundary) Line	AC	Asphalt Concrete
— — — — —	Easement Line	BW	Bottom of Wall
— — — — —	Electric Conduit	Conc	Concrete
— — — — —	Gas Line	D.I.	Drain Inlet
— — — — —	Storm Drain Line	DWP	Driveway
— — — — —	Sanitary Sewer Line	E-Box	Electric Box
— — — — —	Water Line	Elec	Electric
	Edge of Pavement	EL	Elevation
	End of Trace	EDT	End of Trace
	FH	FH	Finish
	FL	FL	Flow Line
	Ground Anchor (Tie Pile)	G.A.	Ground Anchor
	Grade Break	G.B.	Grade Break
	Grote	GRT	Grote
	Hard Board	H.B.	Hard Board
	Invert	INV	Invert
	In-Bottom	IR-B	Irigation Box
	Irrigation Valve	IV	Irrigation Valve
	Juhl Utility Pole	JP	Juhl Utility Pole
	Monument	Mon	Monument
	Planter	PLNTR	Planter
	Flowers	PRS	Flowers
	Storm Drain Manhole	SDMH	Storm Drain Manhole
	Street Light	SL	Street Light
	Street Light Box	SL-Box	Street Light Box
	Sanitary Sewer Box	SS-Box	Sanitary Sewer Box
	Sanitary Sewer Cleanout	SSCO	Sanitary Sewer Cleanout
	Sanitary Sewer Manhole	SSMH	Sanitary Sewer Manhole
	Sidewalk	S/W	Sidewalk
	Top of Curb	TC	Top of Curb
	Top of Curb at Drain Inlet	TCDI	Top of Curb at Drain Inlet
	Traffic Signal Box	TS-Box	Traffic Signal Box
	Tap	TW	Tap of Wall
	Underground (Conduits)	UG	Underground (Conduits)
	Utility	UT	Utility
	Wood Fence	WD FNC	Wood Fence
	Water Meter	WM	Water Meter
	Water Valve	WV	Water Valve
	Walkway	WRY	Walkway
	W/O	W/O	W/O
	Cross Drain	X-DRN	Cross Drain
	Cross Walk	X-WALK	Cross Walk

Designed by:	
Drawn by:	KPT
Checked by:	AEL
Reviewed by:	CMP
Date (of Survey):	10/6/2021



INTERSECTION IMPROVEMENT
SURVEY

ROOSEVELT AVENUE AT McGARVEY AVENUE

REDWOOD CITY, SAN MATEO COUNTY, CALIFORNIA

TOPOGRAPHIC AND
BOUNDARY SURVEY

File: 2021.027.00	SHEET No. 1 OF 2
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4637 CHABOT DRIVE, SUITE 300, PLEASANTON, CA 94588

Jun 07, 2023 - 10:02am - USER Katherine.Schmidt
K:\BAY_LDEV\097596111 - Roosevelt Ave TCP Implementation\03 CADD\PlanSheets\05 L-01 LAYOUT.dwg



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Call before you dig.



06/05/23	ADDENDUM 1	AH	AH	AH	DATE	SUBMITTED	DATE	APPROVED	DATE
06/07/23	ADDENDUM 2	AH	AH	AH	DESIGNED	MALAHAT OWRANG	DATE	JESSICA MANZI, PE C71786	DATE
					DATE	ERIK ZHEN, PE 91442	DATE		DATE
					DELINEATED	PETER DELGADO, PE 77980	DATE		DATE
DATE	SYMBOL	REVISIONS	BY	CHECKED	APPROVED	CHECKED	BZH		

CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING AND TRANSPORTATION
CALIFORNIA

FILE NO: SCALE: AS SHOWN AUTOCAD DRAWING FILE:

ROOSEVELT AVENUE QUICK-BUILD
TRAFFIC CALMING PROJECT
LAYOUT PLAN - ROUNDABOUT

L-01

SHEET NO.
17
OF
29
SHEETS

LEGEND:

- SAWCUT
- HMA
- CONCRETE
- LANDSCAPE - 3" OF LYGSO 3" CRUSHED - ROCK DESERT GOLD OR APPROVED EQUIVALENT
- DETECTABLE WARNING SURFACE
- EXISTING DRIVEWAY
- HMA RAISED CROSSWALK

GENERAL NOTES

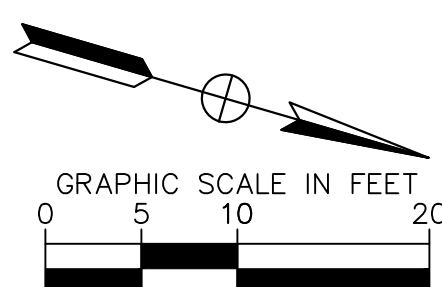
- CONTRACTOR SHALL VERIFY ALL RIGHTS OF WAY PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL VERIFY DEPTH AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES.
- MAXIMUM SLOPE IN ACCESSIBLE LANDINGS SHALL NOT EXCEED 2% IN ANY DIRECTION, MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2% ON ALL ACCESSIBLE ROUTES AND PATHWAYS.

CONSTRUCTION NOTES

- EXISTING TO REMAIN. ADJUST TO GRADE.
- INSTALL CURB AND GUTTER TYPE "A" PER REDWOOD CITY STANDARD DETAIL C-3.
- CONSTRUCT CONCRETE SIDEWALK PER REDWOOD CITY STANDARD DETAIL C-4 & C-5.
- ADJUST TO GRADE.
- EXISTING INLET TO REMAIN. RECONSTRUCT TOP OF INLET TO ADJUST TO GRADE.
- INSTALL 6" CURB.
- INSTALL STORM DRAIN INLET. SEE REDWOOD CITY STANDARD DETAIL D-8 ON SHEET CD-08.
- INSTALL STORM DRAIN PIPE. CONNECT TO EXISTING STORM DRAIN SYSTEM.
- INSTALL STORM DRAIN MANHOLE PER CITY STANDARD M-3.
- CONTRACTOR TO VERIFY UTILITY CONFLICTS PRIOR TO CONSTRUCTION.
- INSTALL ADA-COMPLIANT RAISED CROSSWALK. 5% MAX LONGITUDINAL SLOPE, 2% MAX CROSS SLOPE.
- RAMP UP TO RAISED CROSSWALK; LENGTH AND SLOPE PER PLAN.
- INSTALL PROPOSED FIRE HYDRANT, 6" PVC FIRE HYDRANT LATERAL WITH TEE CONNECTION, AND 6" GATE VALVE PER CITY STANDARD W-3 AND W-43. MINIMUM CLEARANCE AND TAP INSTRUCTIONS ON W-3 AND W-43 ON SHEET CD-08. REDWOOD CITY TO TAP. USE THE RIGHT TAPPING SLEEVE FOR THE CORRECT PIPE MATERIAL. CONTRACTOR TO CONSTRUCT THE THRUST BLOCK WITH CARE AND PER STANDARD AND NOT DISTURB THE OLD EXISTING PIPE.

CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	25.00'	10.09'	N27°34'11"W	10.03'	23°07'58"	5.12'
C2	25.00'	8.91'	N28°55'18"W	8.87'	20°25'45"	4.50'
C3	33.00'	59.27'	N32°44'52"E	51.62'	102°54'34"	41.42'
C4	30.00'	41.41'	S56°08'48"E	38.20'	79°05'03"	24.77'
C6	29.86'	23.86'	N39°11'48"W	23.23'	45°46'37"	12.61'
C7	48.50'	26.23'	N77°34'49"W	25.91'	30°59'18"	13.44'
C8	20.00'	7.73'	S72°51'13"W	7.68'	22°09'04"	3.91'
C9	20.00'	7.48'	N72°29'16"E	7.43'	21°25'10"	3.78'



Kimley»Horn

4637 CHABOT DRIVE, SUITE 300, PLEASANTON, CA 94588

DRAWING NO.

Apr 27, 2023 - 8:54am - USER: Katherine.Schmidt
K:\BAY_LDE\097596111 - roosevelt ave top implementation\03_CADD\plan sheets\RAB_PROFILES.dwg



Know what's below.
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DATE	SYMBOL	REVISIONS	BY	CHECKED	APPROVED

DATE		SUBMITTED	DATE	APPROVED	DATE
		MALAHAT OWRANG		JESSICA MANZI, PE C71786	
DESIGNED	AKP				
DATE		SUBMITTED	DATE	APPROVED	DATE
		ERIK ZHEN, PE 91442			
DELINEATED	SL				
DATE		SUBMITTED	DATE	APPROVED	DATE
		PETER DELGADO, PE 77980			
CHECKED	BZH				

CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING AND TRANSPORTATION
CALIFORNIA

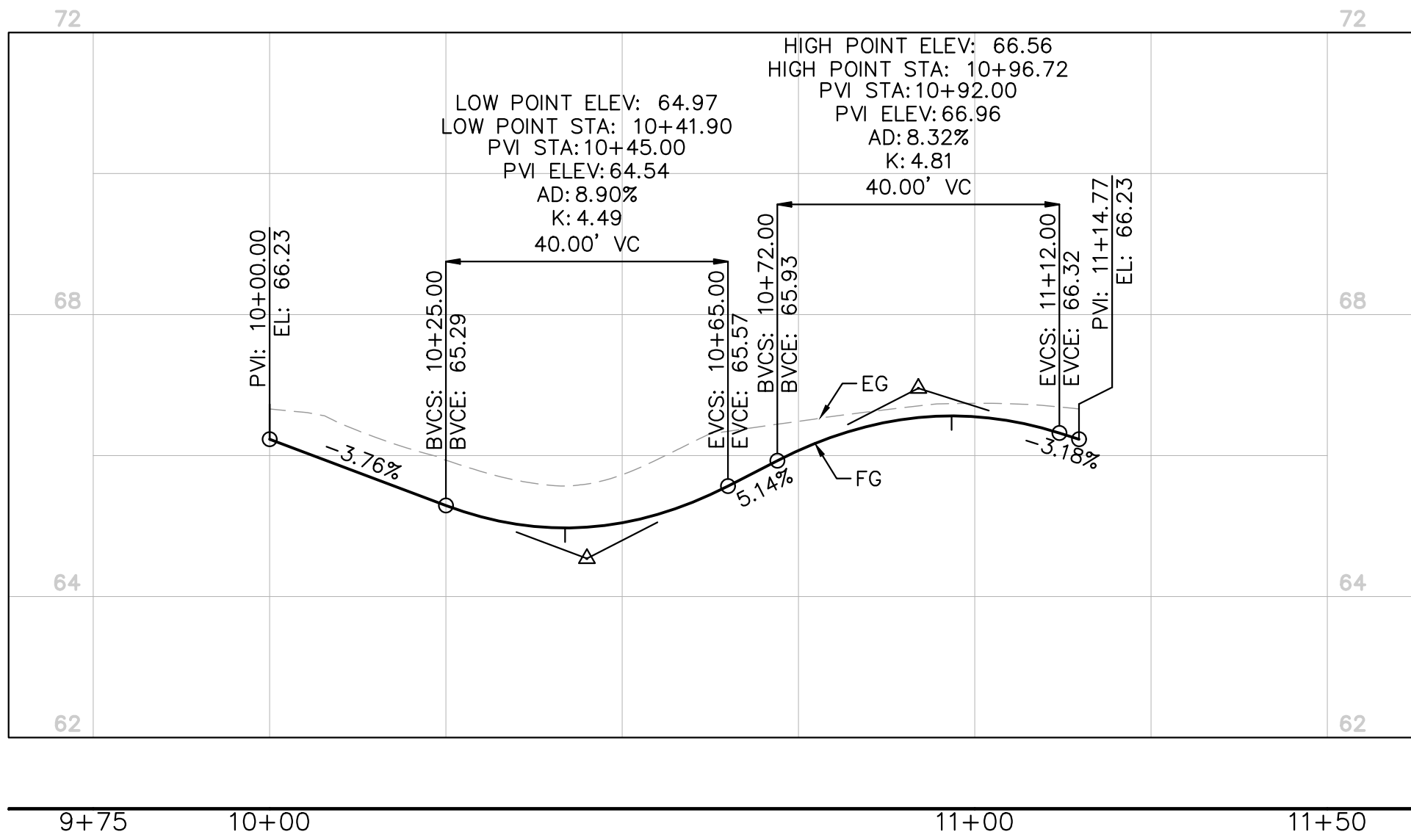
FILE NO: SCALE: AS SHOWN AUTOCAD DRAWING FILE:

ROOSEVELT AVENUE QUICK-BUILD
TRAFFIC CALMING PROJECT
PROFILES - ROUNDABOUT

L-01

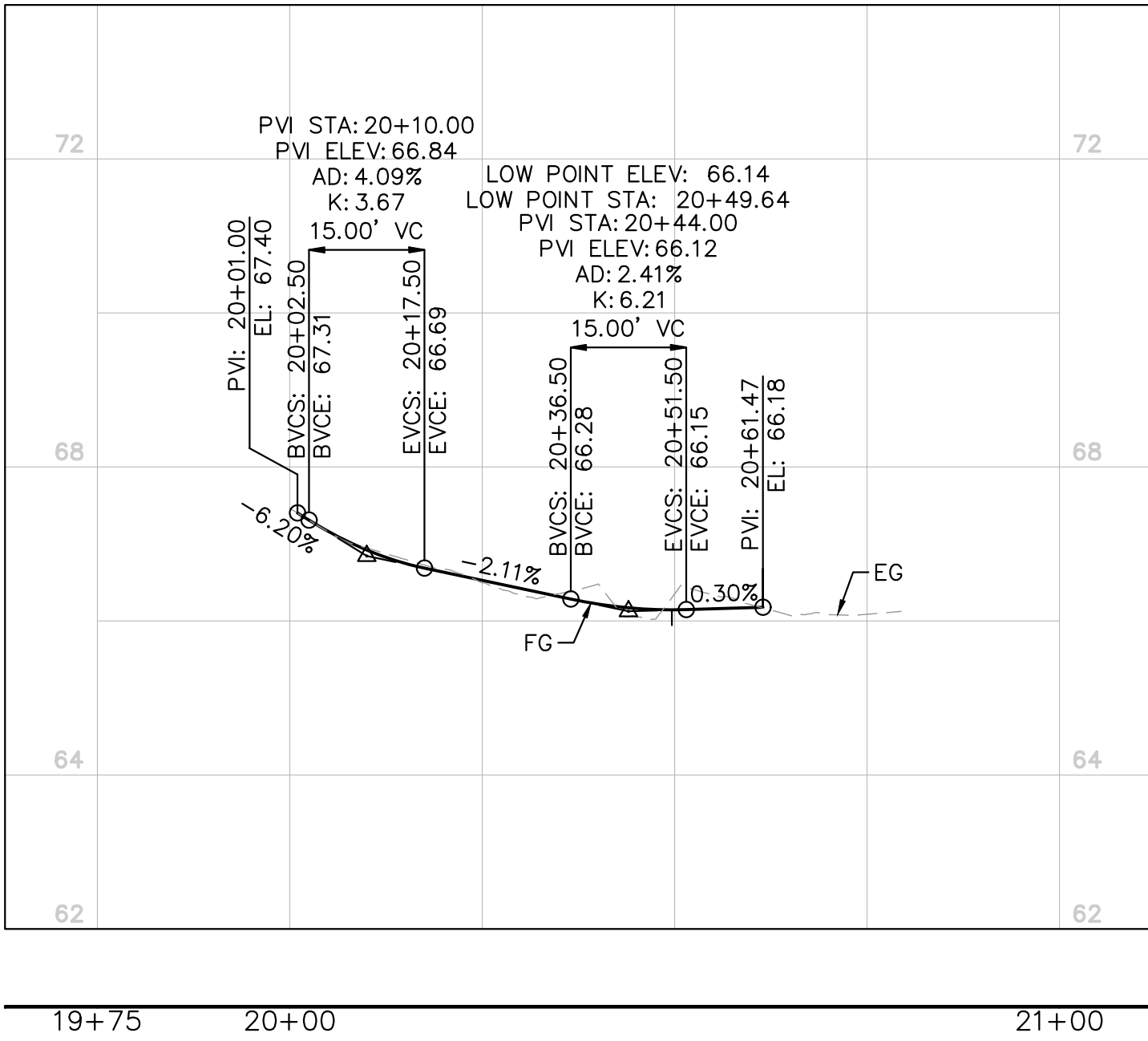
SHEET NO.	18
OF	29
SHEETS	

DRAWING NO.



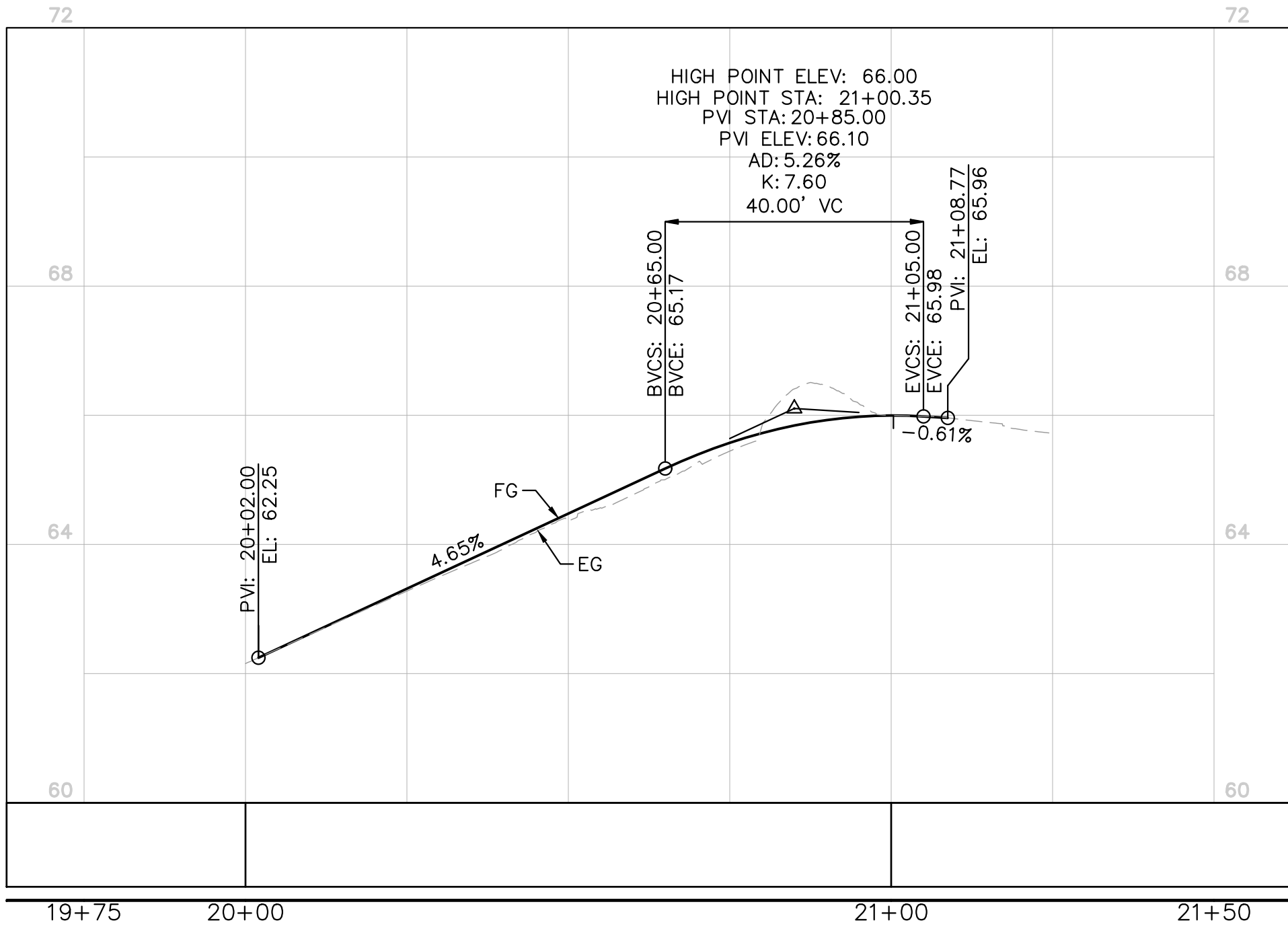
CENTER ISLAND CURB PROFILE

HORIZONTAL SCALE: 1:10
VERTICAL SCALE: 1:2



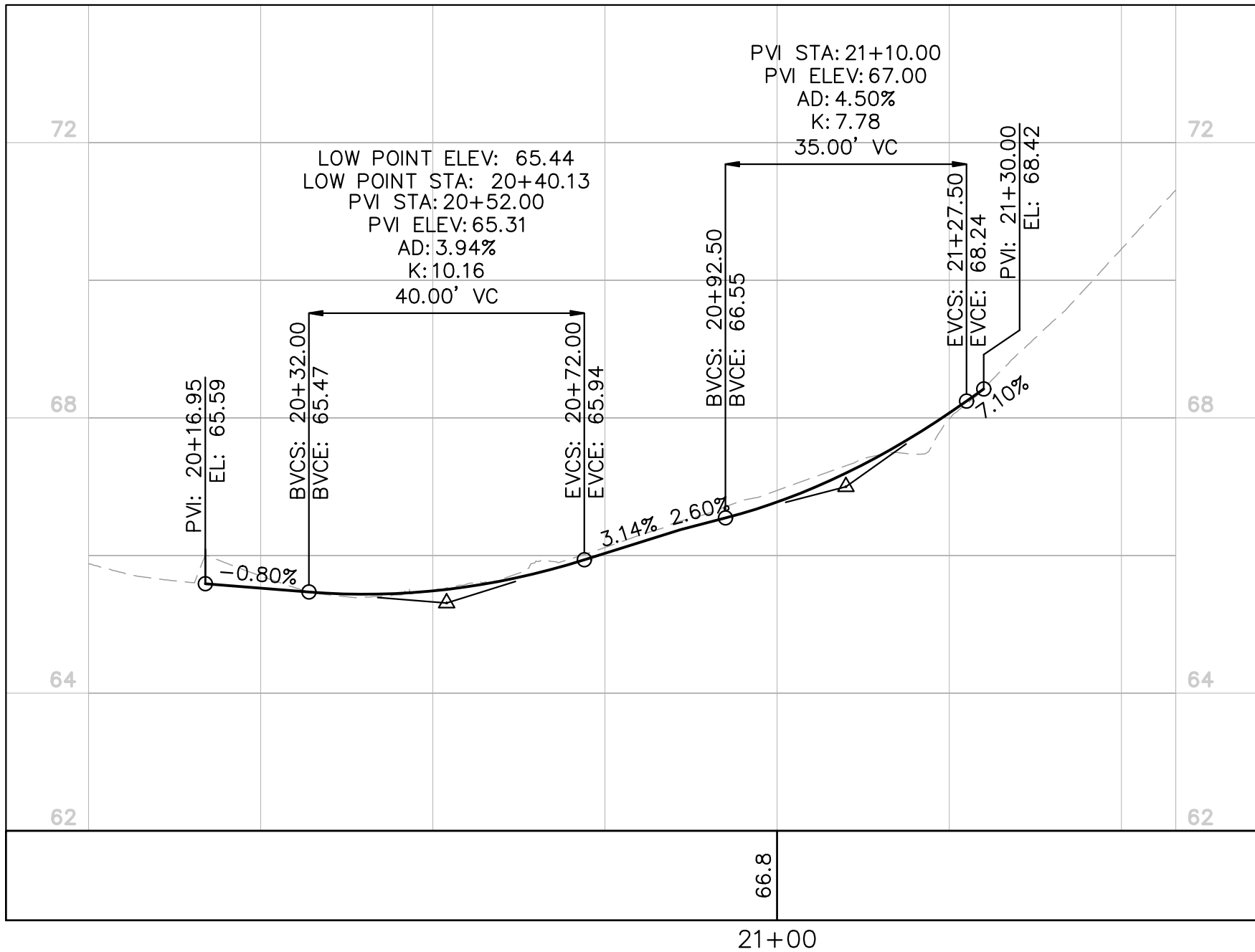
NW CURB PROFILE

HORIZONTAL SCALE: 1:10
VERTICAL SCALE: 1:2



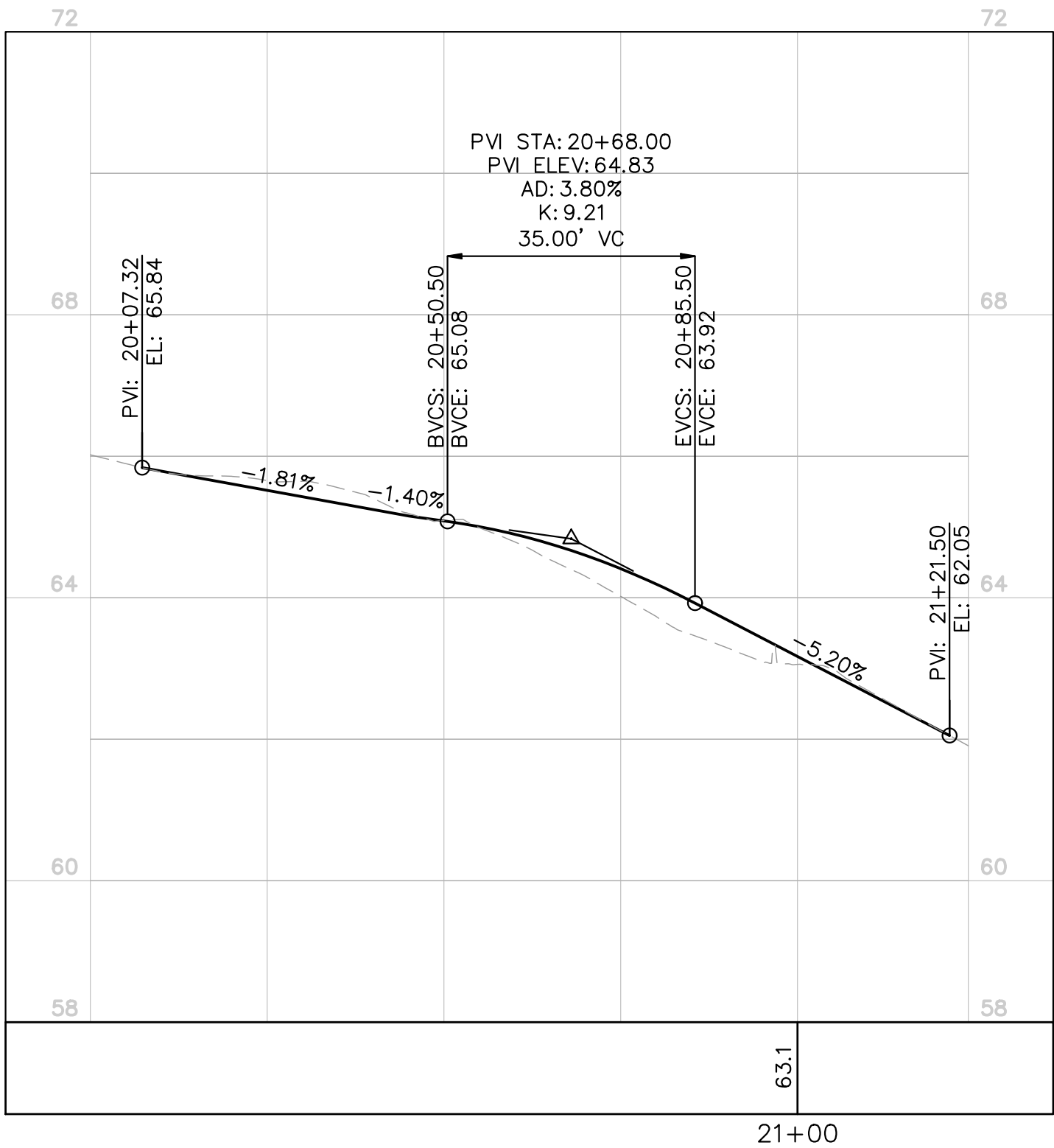
NE CURB PROFILE

HORIZONTAL SCALE: 1:10
VERTICAL SCALE: 1:2



SW CURB PROFILE

HORIZONTAL SCALE: 1:10
VERTICAL SCALE: 1:2



SE CURB PROFILE

HORIZONTAL SCALE: 1:10
VERTICAL SCALE: 1:2

Kimley»Horn

4637 CHABOT DRIVE, SUITE 300, PLEASANTON, CA 94588

Jun 06, 2023 - 5:47pm - USER: Katherine Schmidt
K:\BAY_LDEV\097596111 - Roosevelt Ave TCP Implementation\03 CADD\PlanSheets\RAB CONTOUR GRADING.dwg



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06/06/23		ADDENDUM 1	AH	AH	AH	DATE	SUBMITTED	DATE	APPROVED	DATE
						AKP	MALAHAT OWRANG		JESSICA MANZI, PE C71786	
							ERIK ZHEN, PE 91442			
						SL	PETER DELGADO, PE 77980			
DATE	SYMBOL	REVISIONS	BY	CHECKED	APPROVED	CHECKED	BZH			

DATE	SYMBOL	REVISIONS	BY	CHECKED	APPROVED	CHECKED	BZH
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CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING AND TRANSPORTATION
CALIFORNIA

FILE NO: SCALE: AS SHOWN AUTOCAD DRAWING FILE:

**ROOSEVELT AVENUE QUICK-BUILD
TRAFFIC CALMING PROJECT
CONTOUR GRADING**

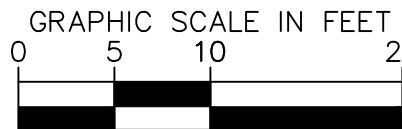
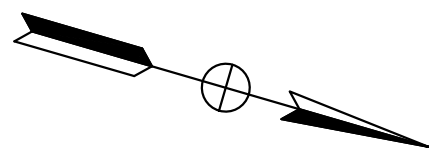
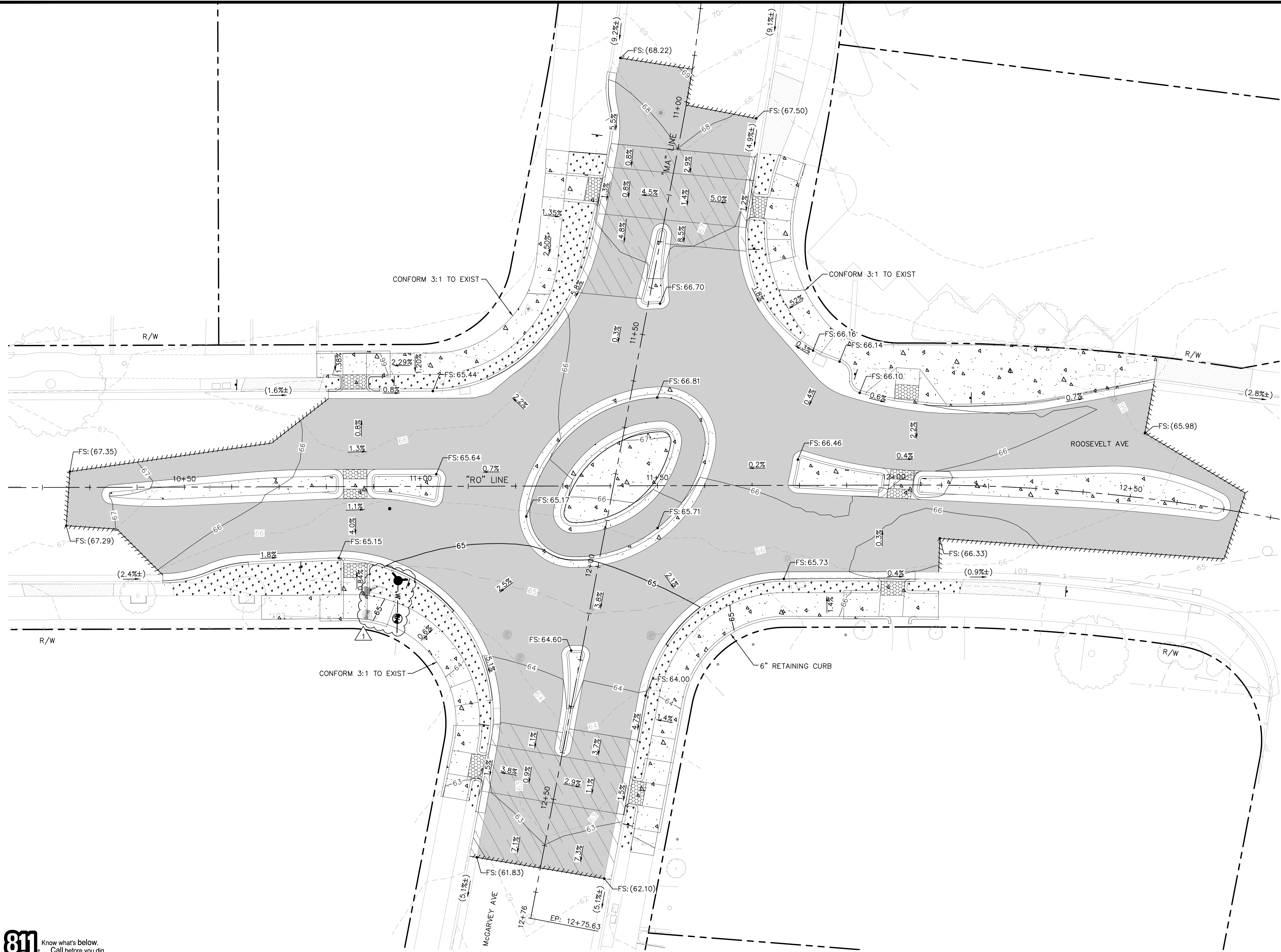
GR-01

SHEET NO.	19
OF	29
SHEETS	

DRAWING NO.

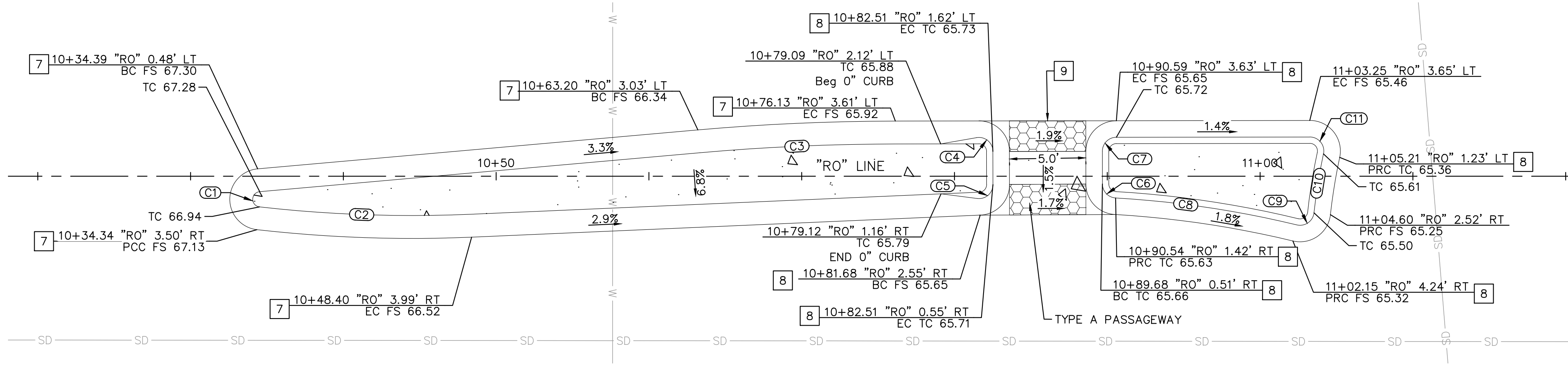
LEGEND:

- SAWCUT
- EXISTING GROUND CONTOUR
- PROPOSED GROUND CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- HMA
- CONCRETE
- LANDSCAPE - 3" OF LYGSO 3/4" CRUSHED ROCK - DESERT GOLD OR APPROVED EQUIVALENT
- DETECTABLE WARNING SURFACE
- EXISTING DRIVEWAY

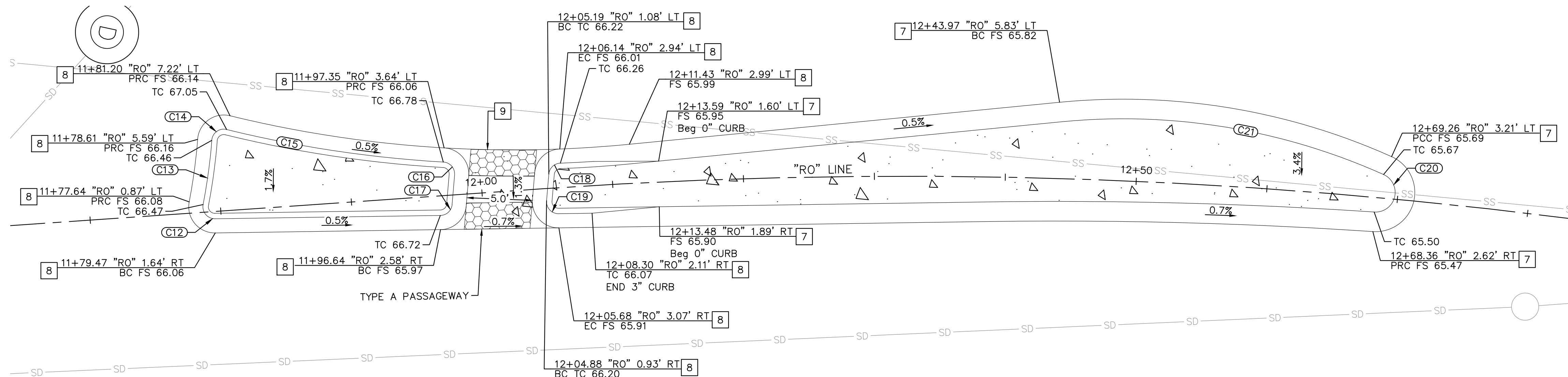


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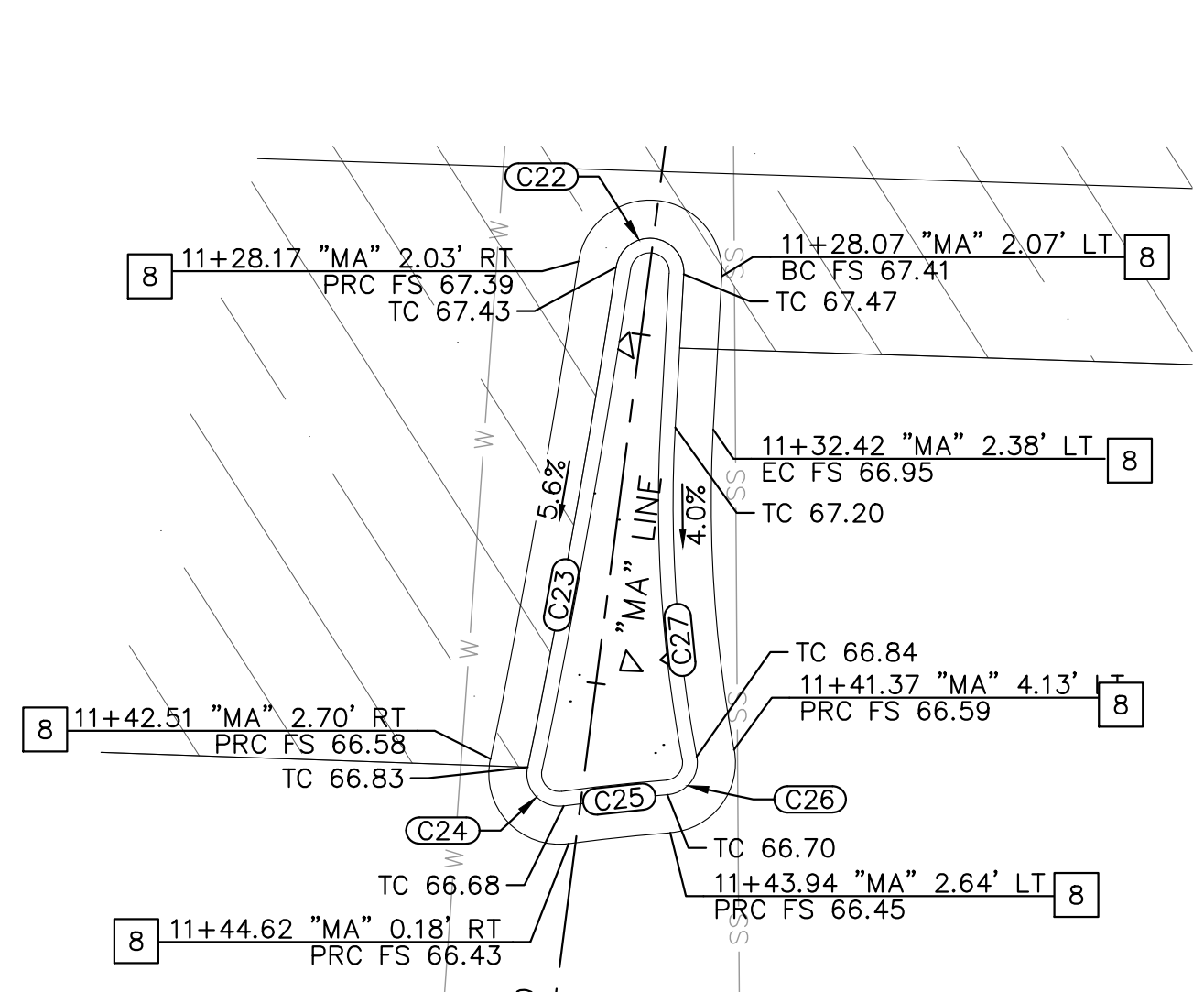
4637 CHABOT DRIVE, SUITE 300, PLEASANTON, CA 94588



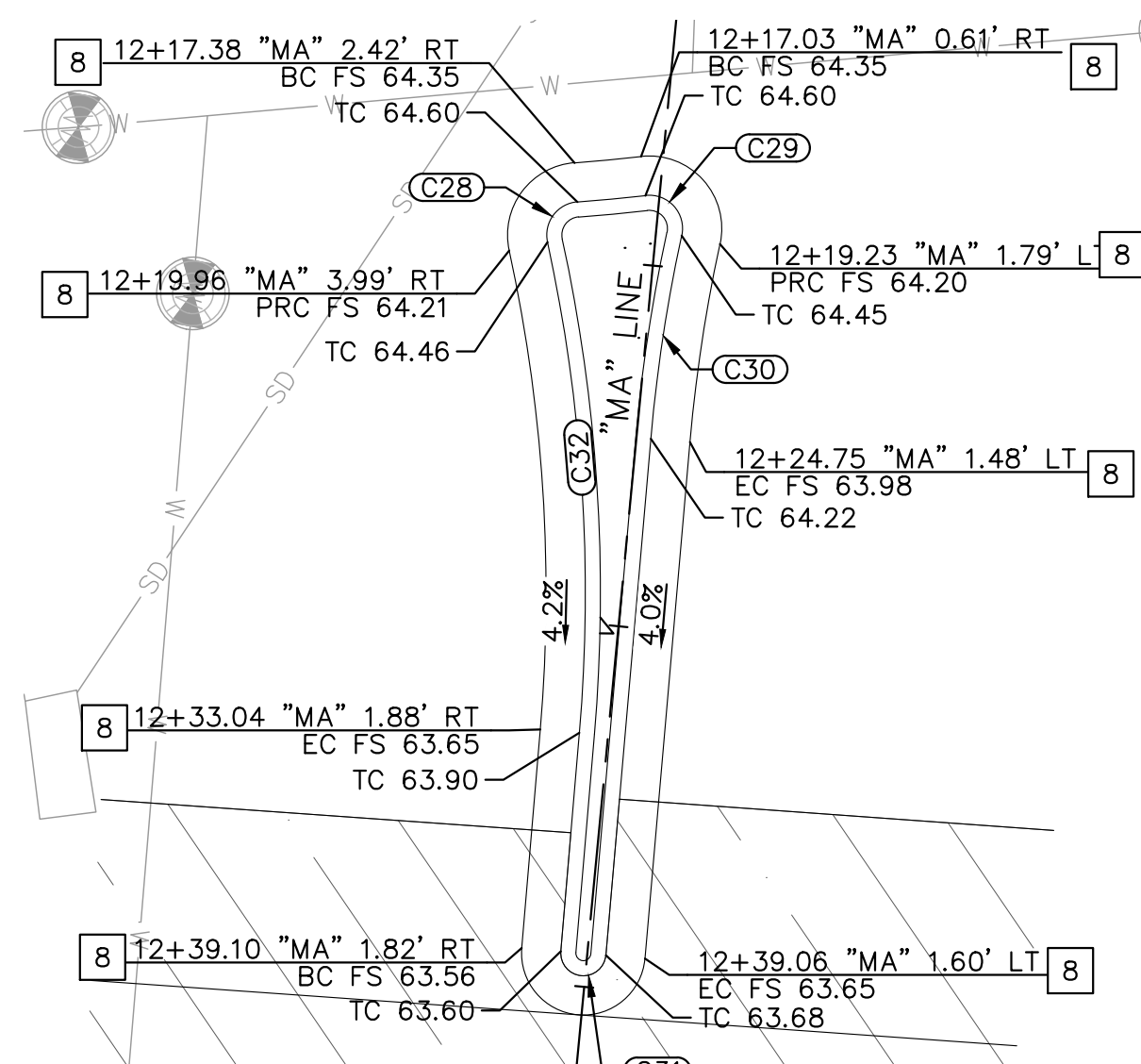
DETAIL A: SOUTH SPLITTER ISLAND



DETAIL B: NORTH SPLITTER ISLAND



DETAIL C: WEST SPLITTER ISLAND



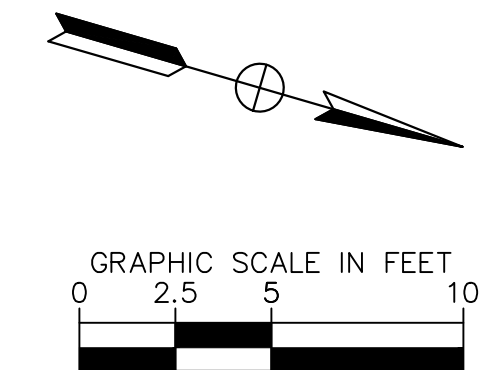
DETAIL D: EAST SPLITTER ISLAND

CONSTRUCTION NOTES

- 7 INSTALL 0" CURB AND GUTTER.
- 8 INSTALL 3" MOUNTABLE CURB. SEE DETAIL 3 ON SHEET CD-03.
- 9 TRUNCATED DOMES PER CALTRANS STD PLAN A88A.

CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	0.50'	1.47'	N74°29'08"E	0.99'	168°27'40"	4.95'
C2	88.50'	13.84'	S14°13'34"W	13.83'	8°57'43"	6.94'
C3	147.50'	12.81'	N18°47'46"E	12.81'	4°58'33"	6.41'
C4	0.92'	1.60'	S23°49'27"W	1.40'	99°47'22"	1.09'
C5	0.92'	1.56'	S57°37'03"W	1.38'	97°19'38"	1.04'
C6	0.92'	1.39'	N30°24'47"E	1.26'	86°36'42"	0.86'
C7	0.92'	1.44'	S61°17'40"E	1.30'	89°58'23"	0.92'
C8	67.08'	12.00'	S7°46'00"E	11.99'	10°15'07"	6.02'
C9	0.92'	1.56'	N51°15'47"W	1.38'	97°14'41"	1.04'
C10	39.60'	3.91'	N82°56'33"E	3.91'	5°39'22"	1.96'
C12	0.92'	1.63'	N37°42'17"E	1.42'	101°37'19"	1.12'
C13	44.83'	4.96'	S85°24'58"W	4.95'	6°20'00"	2.48'
C14	0.92'	1.60'	N48°26'09"E	1.40'	99°52'41"	1.09'
C15	92.08'	16.76'	N3°42'39"W	16.74'	10°25'42"	8.40'
C16	0.92'	1.46'	N36°49'56"W	1.31'	91°30'52"	0.94'
C17	0.92'	1.35'	S55°15'30"W	1.23'	84°18'15"	0.83'
C18	0.92'	1.33'	S55°56'56"E	1.21'	82°55'23"	0.81'
C19	0.92'	1.53'	N34°44'30"E	1.36'	95°41'45"	1.01'
C21	48.50'	25.21'	N2°57'02"E	24.93'	29°46'55"	12.90'
C22	0.97'	2.95'	S6°41'03"E	1.93'	174°34'03"	20.40'

CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C23	302.08'	12.81'	S87°14'48"W	12.81'	2°25'45"	6.41'
C24	0.92'	1.77'	N34°41'09"E	1.50'	110°19'37"	1.32'
C25	48.66'	2.97'	S18°43'44"E	2.97'	3°29'50"	1.49'
C26	0.92'	1.54'	N65°04'57"W	1.36'	96°12'15"	1.02'
C27	39.08'	9.40'	N73°42'27"E	9.38'	13°47'03"	4.72'
C28	0.92'	1.57'	S63°55'51"E	1.38'	98°06'07"	1.06'
C29	0.92'	1.74'	N37°14'17"W	1.49'	108°47'18"	1.28'
C30	44.41'	5.67'	S87°58'18"E	5.67'	7°19'15"	2.84'
C31	0.62'	1.96'	N5°44'35"W	1.25'	179°53'28"	657.39'



Kimley»Horn
4637 CHABOT DRIVE, SUITE 300, PLEASANTON, CA 94588



									DATE		SUBMITTED	DATE		APPROVED	DATE	
									DESIGNED	AKP	MALAHAT OWRANG			JESSICA MANZI, PE C71786		
									DATE		SUBMITTED	DATE		APPROVED	DATE	
									DELINEATED	SL	ERIK ZHEN, PE 91442					
									DATE		SUBMITTED	DATE		APPROVED	DATE	
	DATE	SYMBOL	REVISIONS	BY	CHECKED	APPROVED	CHECKED	BZH	PETER DELGADO, PE 77980							

CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING AND TRANSPORTATION
CALIFORNIA

FILE NO: SCALE: AS SHOWN AUTOCAD DRAWING FILE:

ROOSEVELT AVENUE QUICK-BUILD
TRAFFIC CALMING PROJECT
CONSTRUCTION DETAILS

SHEET NO.	20
OF	29
SHEETS	

Apr 27, 2023 - 8:54am - USER: Katherine.Schmidt
K:\BAY_LDEV\097596111 - roosevelt ave. top implementation\03_CADD\plan sheets\06_CD-01_CONSTRUCTION_DETAILS.dwg



DATE	SYMBOL	REVISIONS	BY	CHECKED	APPROVED	CHECKED

DATE	SUBMITTED	DATE	APPROVED
	MALAHAT OWRANG		JESSICA MANZI, PE C71786
DESIGNED	AKP	DATE	APPROVED
DATE	SUBMITTED	DATE	APPROVED
	ERIK ZHEN, PE 91442		
DELINEATED	SL	DATE	APPROVED
DATE	SUBMITTED	DATE	APPROVED
	PETER DELGADO, PE 77980		
CHECKED	BZH	DATE	APPROVED

CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING AND TRANSPORTATION
CALIFORNIA

FILE NO: SCALE: AS SHOWN AUTOCAD DRAWING FILE:

ROOSEVELT AVENUE QUICK-BUILD
TRAFFIC CALMING PROJECT
CONSTRUCTION DETAILS

CD-02

SHEET NO.	21
OF	29
SHEETS	

DRAWING NO. _____

CONSTRUCTION NOTES

- [5] ADJUST TO GRADE.
- [7] INSTALL 0" CURB AND GUTTER.
- [9] TRUNCATED DOMES PER CALTRANS STD PLAN A88A.
- [11] INSTALL 6" CURB.
- [13] INSTALL 3" MOUNTABLE CURB AND GUTTER. SEE DETAIL 2 ON SHEET CD-03.

NOTES

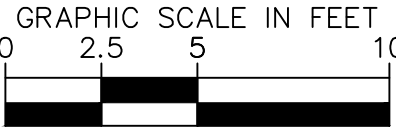
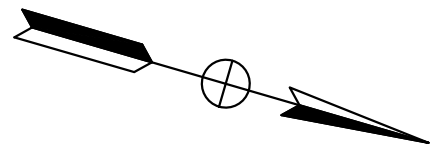
1. SEE SS-01 FOR SIGNING DETAILS.
2. CURB RAMPS AND TRUNCATED DOMES TO BE INSTALLED PER 2022 CALTRANS STANDARD DETAIL RSP A88A AND MODIFIED AS SHOWN PER DETAIL ON THIS SHEET. SEE CURB RAMP NOTES ON GN-01.

CURVE TABLE

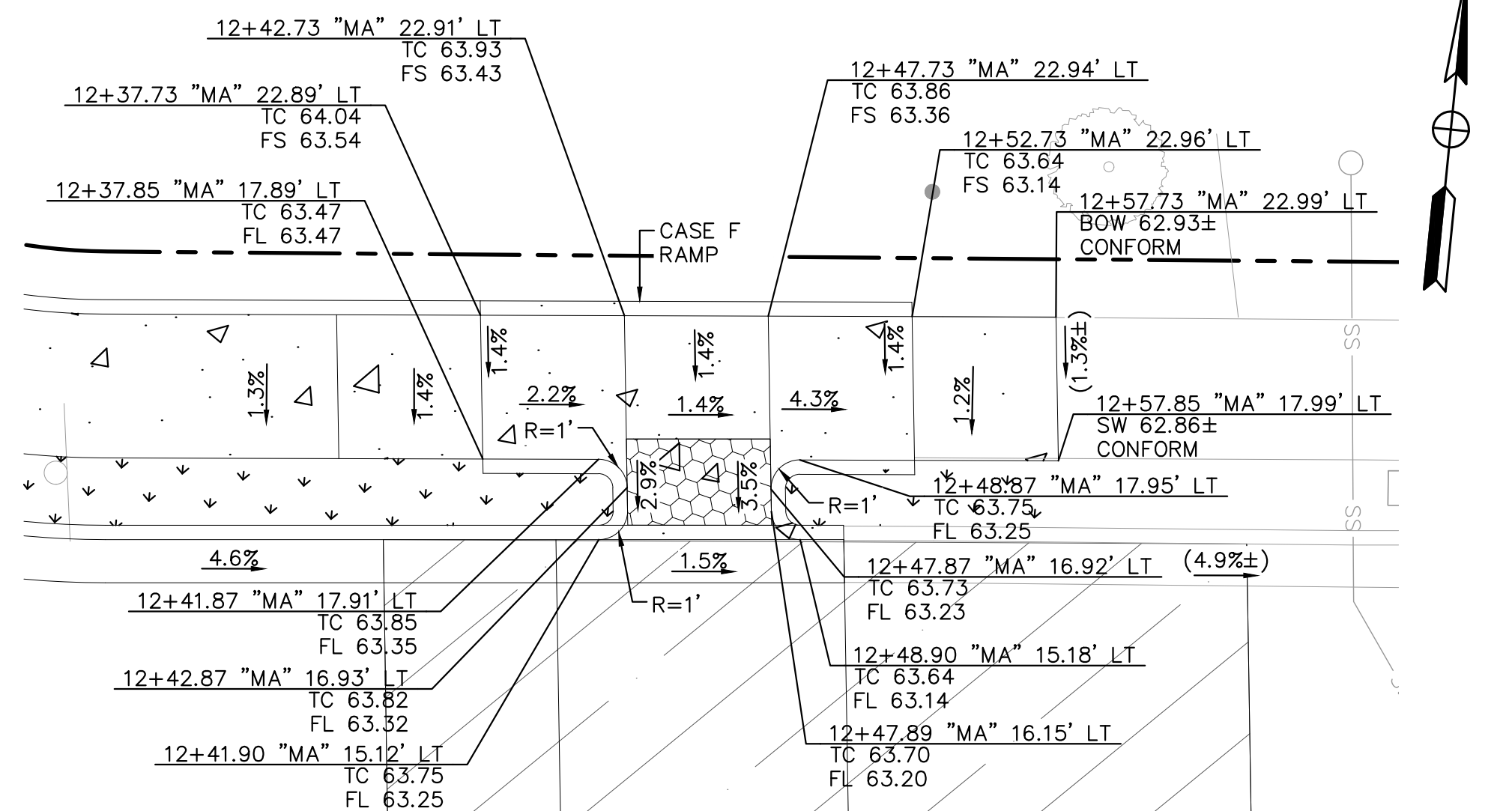
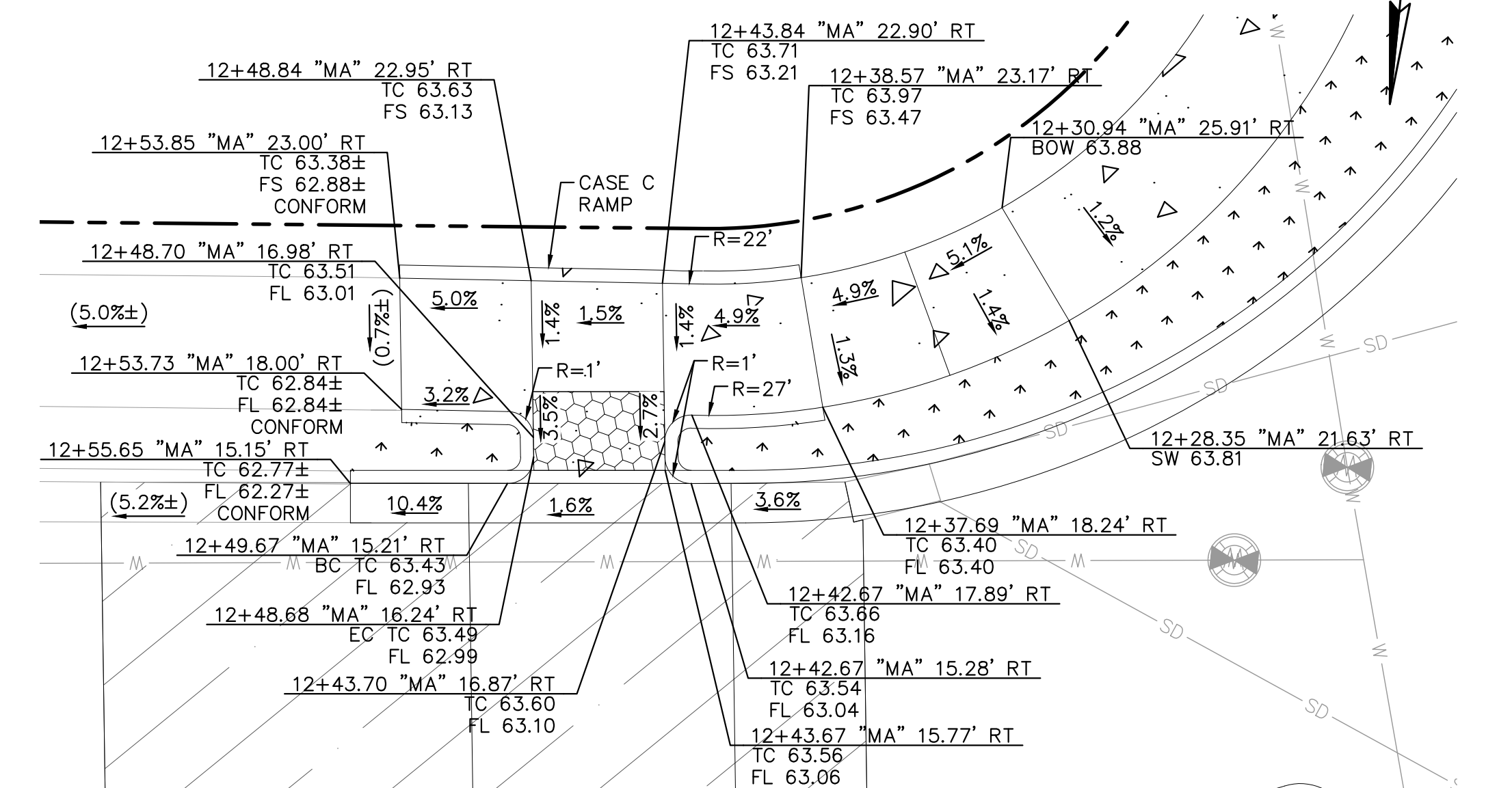
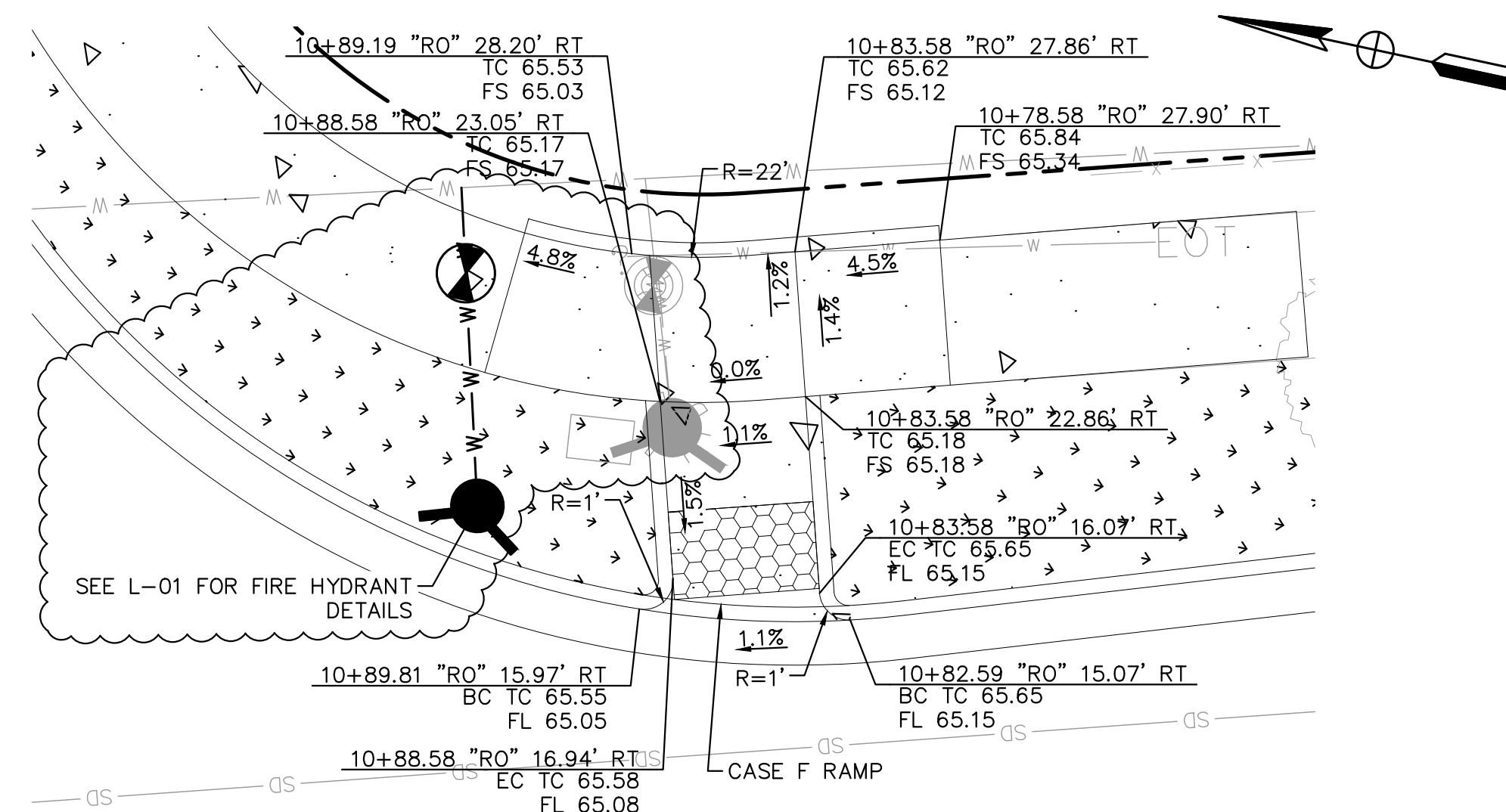
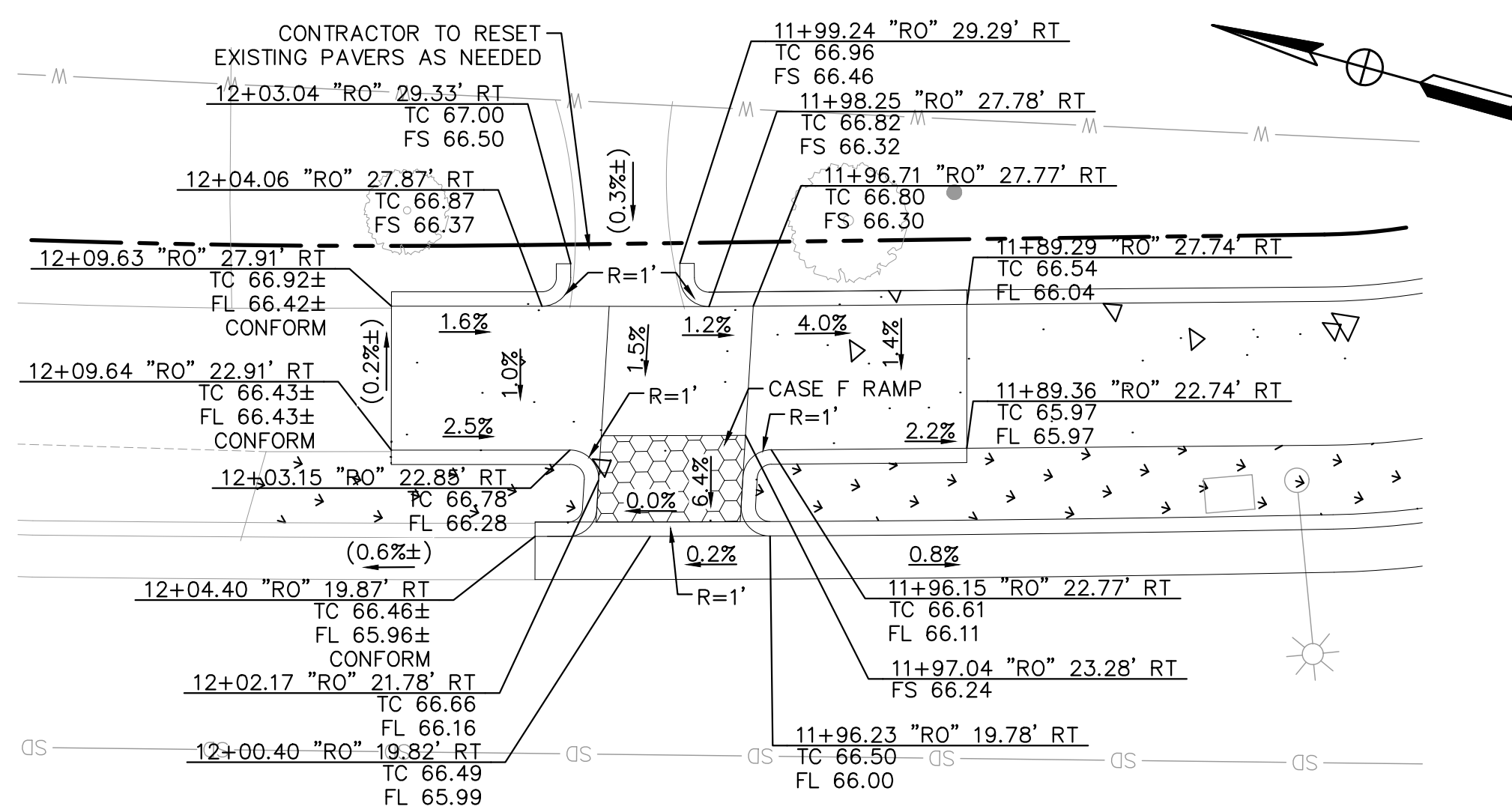
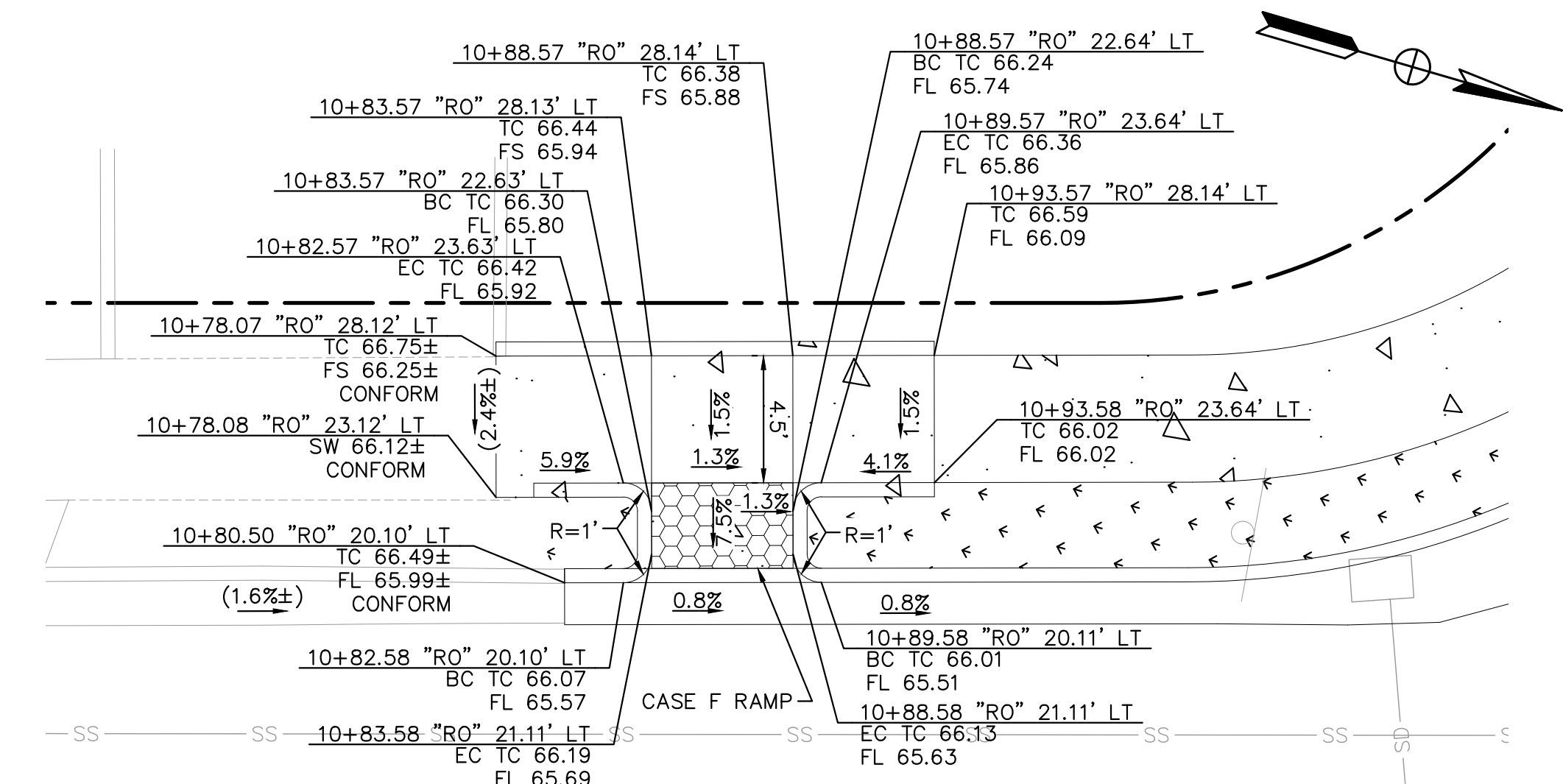
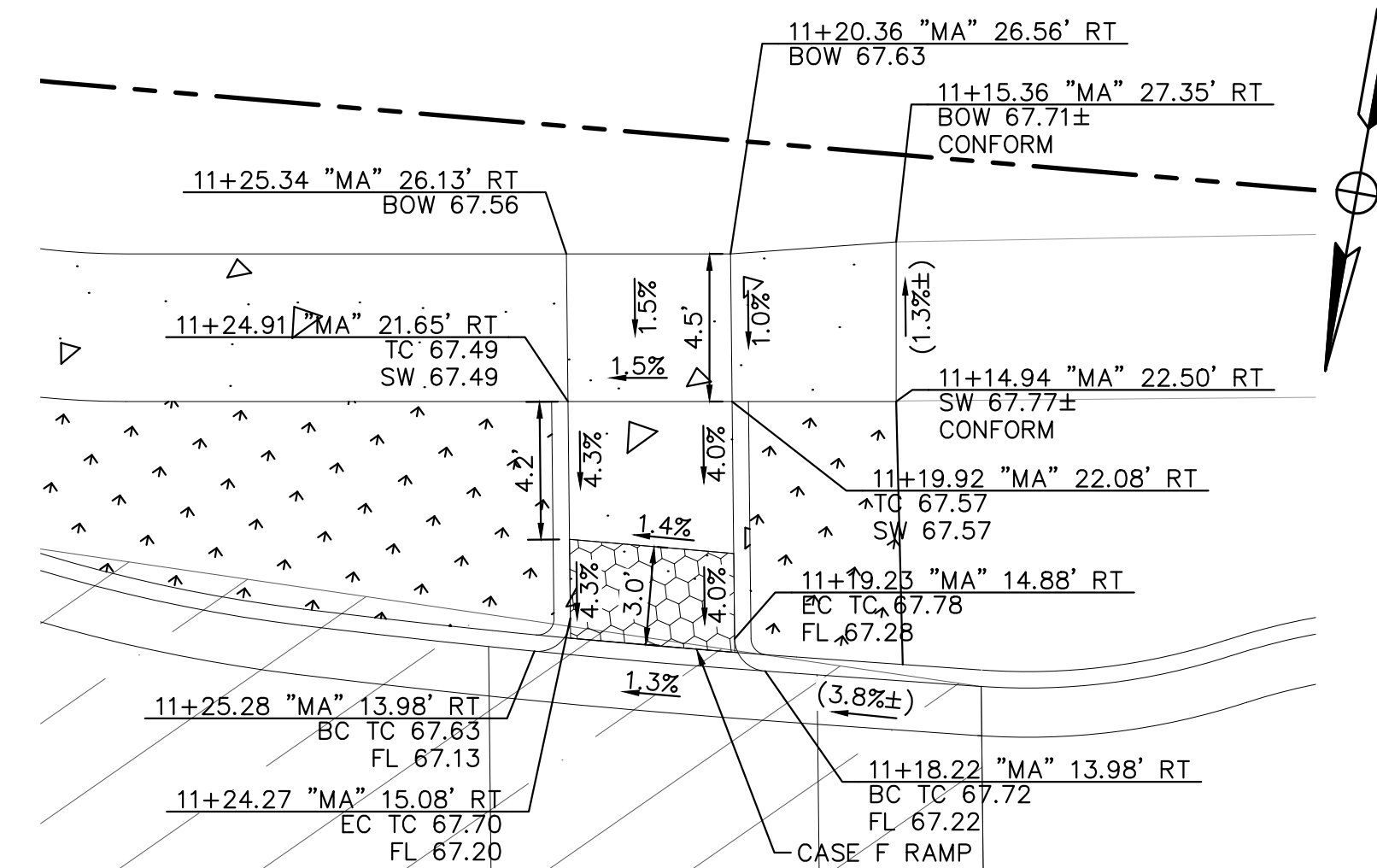
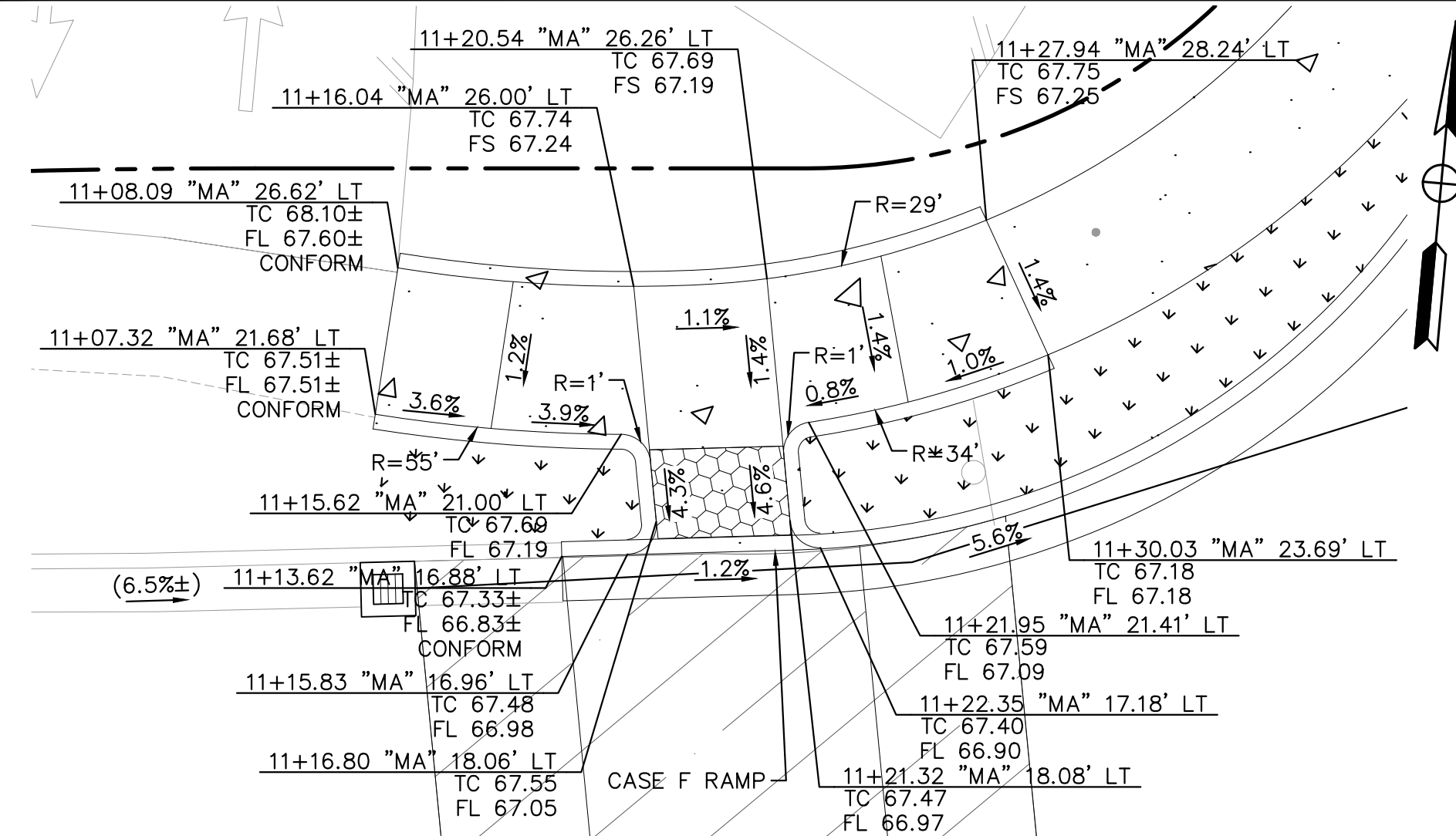
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C33	10.00'	17.70'	N36°11'57"E	15.48'	101°24'35"	12.22'
C34	29.58'	39.06'	S55°15'55"E	36.28'	75°39'41"	22.97'
C35	10.00'	17.54'	N33°07'53"W	15.38'	100°31'18"	12.03'
C36	28.39'	40.40'	N55°15'55"W	37.08'	81°31'10"	24.47'
C37	22.33'	29.49'	S55°15'55"E	27.39'	75°39'41"	17.34'
C38	2.75'	4.82'	N33°07'53"W	4.23'	100°31'18"	3.31'
C39	21.14'	30.08'	N55°15'55"W	27.61'	81°31'10"	18.22'
C40	2.75'	4.87'	N36°11'57"E	4.26'	101°24'35"	3.36'
C42	3.00'	4.51'	S42°41'26"E	4.10'	86°12'08"	2.81'
C43	78.50'	7.99'	N3°19'33"W	7.99'	5°49'50"	4.00'
C44	78.50'	8.80'	N14°37'50"W	8.79'	6°25'18"	4.40'

DETAIL E: CENTRAL ISLAND

DETAIL F: WEST SPLITTER ISLAND

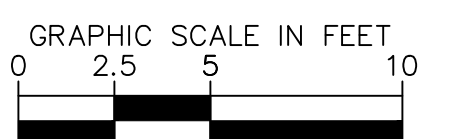


4637 CHABOT DRIVE, SUITE 300, PLEASANTON, CA 94588





NOTES

1. CURB RAMPS AND TRUNCATED DOMES TO BE INSTALLED PER 2022 CALTRANS STANDARD DETAIL A88A AND MODIFIED AS SHOWN PER DETAIL ON THIS SHEET. SEE CURB RAMP NOTES ON GN-01.



Kimley»Horn

4637 CHABOT DRIVE, SUITE 300, PLEASANTON, CA 94588

	06/06/23		ADDENDUM 1			AH	AH	AH		DATE _____	SUBMITTED _____	DATE _____	APPROVED _____	<div>CITY OF REDWOOD CITY COMMUNITY DEVELOPMENT DEPARTMENT ENGINEERING AND TRANSPORTATION CALIFORNIA</div> <div>FILE NO: _____SCALE: AS SHOWNAUTOCAD DRAWING FILE: _____</div>	<div>ROOSEVELT AVENUE QUICK-BUILD TRAFFIC CALMING PROJECT CONSTRUCTION DETAILS</div> <div>CD-03</div>	SHEET NO.	
									DESIGNED _____ AKP	MALAHAT OWRANG	JESSICA MANZI, PE C71786					22	
									DATE _____			DATE _____	APPROVED _____				OF _____
									DELINEATED _____ SI	ERIK ZHEN, PE 91442							29
									DATE _____	PETER DELGADO, PE 77980			DATE _____				SHEETS
	DATE _____	SYMBOL _____	REVISIONS _____	BY _____	CHECKED _____	APPROVED _____	CHECKED _____	RTH _____									

Jun 06, 2023 - 5:50pm - USER: Katherine Schmidt
K:\BAY_LDEV\097596111 - Roosevelt Ave TCP Implementation\03 CADD\PlanSheets\08 CD-01 CONSTRUCTION DETAILS.dwg



Know what's below.
Call before you dig.



06/06/23	ADDENDUM 1	AH	AH	AH	DATE	SUBMITTED	DATE	APPROVED	DATE
					DESIGNED	AKP		JESSICA MANZI, PE C71786	
					SUBMITTED		DATE	APPROVED	DATE
					DELINEATED	SL			
					DATE		DATE	APPROVED	DATE
DATE	SYMBOL	REVISIONS	BY	CHECKED	APPROVED	CHECKED	BZH		

DATE	SUBMITTED	DATE	APPROVED	DATE
	MALAHAT OWRANG		JESSICA MANZI, PE C71786	
	ERIK ZHEN, PE 91442			
	PETER DELGADO, PE 77980			

CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING AND TRANSPORTATION
CALIFORNIA

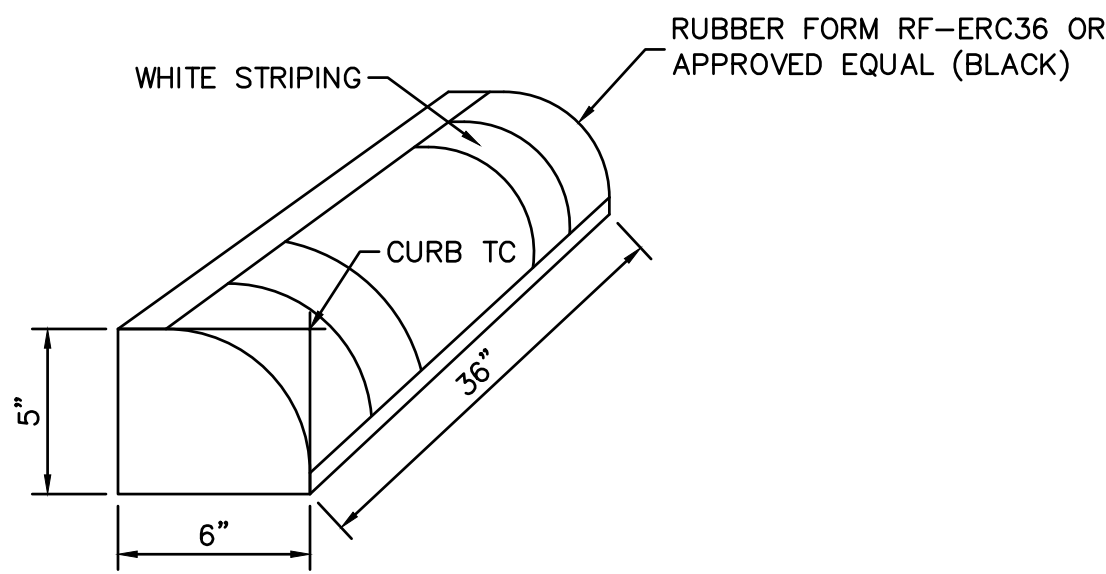
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ROOSEVELT AVENUE QUICK-BUILD
TRAFFIC CALMING PROJECT
CONSTRUCTION DETAILS

CD-04

SHEET NO.	23
OF	29
SHEETS	

DRAWING NO.

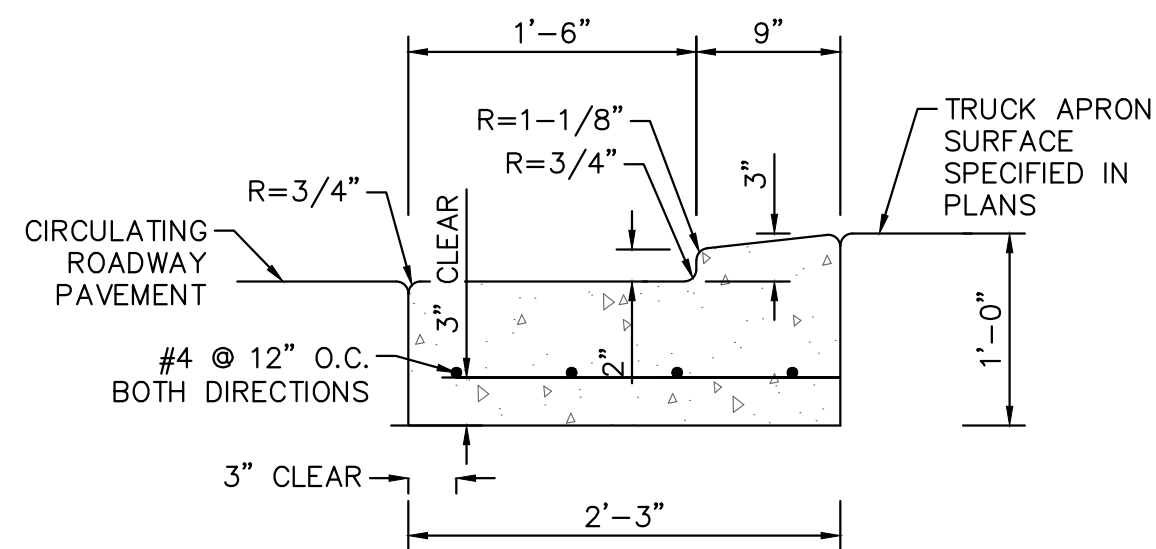


NOTES:

1. COMBINE 36" LENGTH SEGMENTS TO ACHIEVE CURBING AS SHOWN ON PLANS.
2. ALL DIMENSIONS SHALL BE MEASURED TO CURB TC UNLESS OTHERWISE INDICATED.
3. INSTALL CURB USING LAG BOLTS, PER MANUFACTURER'S RECOMMENDATIONS.
4. USE BLACK ENGINEERED RUBBER CURB WITH WHITE STRIPING FOR THE BULB OUTS. USE YELLOW ENGINEERED RUBBER CURB FOR THE MEDIAN.

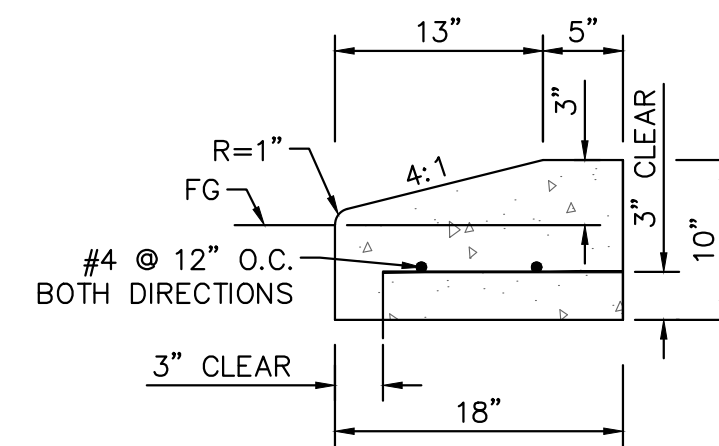
RUBBER CURB DETAIL
N.T.S.

1



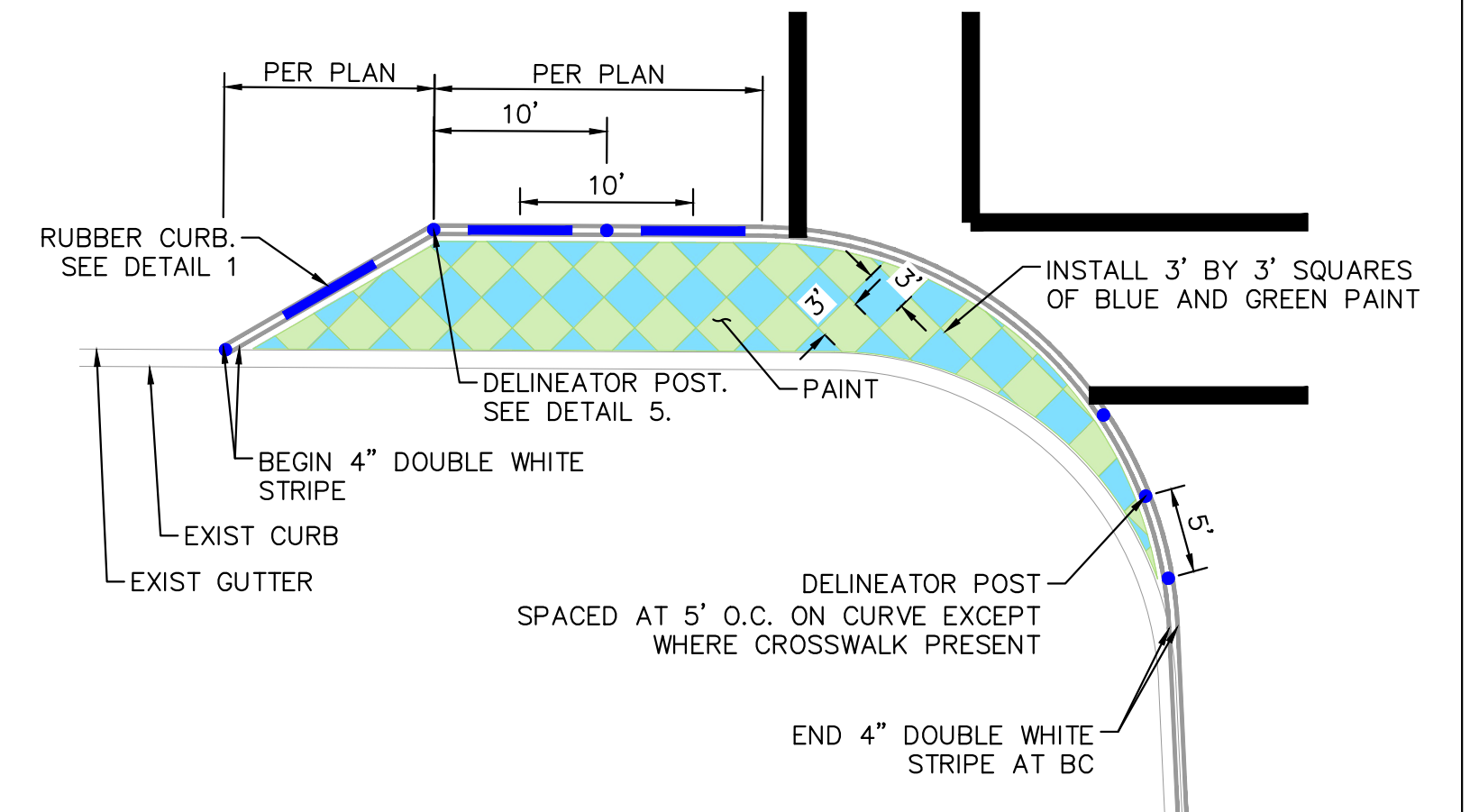
3" MOUNTABLE CURB ON CENTER ISLAND
N.T.S.

2



MODIFIED 3" MOUNTABLE CURB ON SPLITTER ISLAND
N.T.S.

3

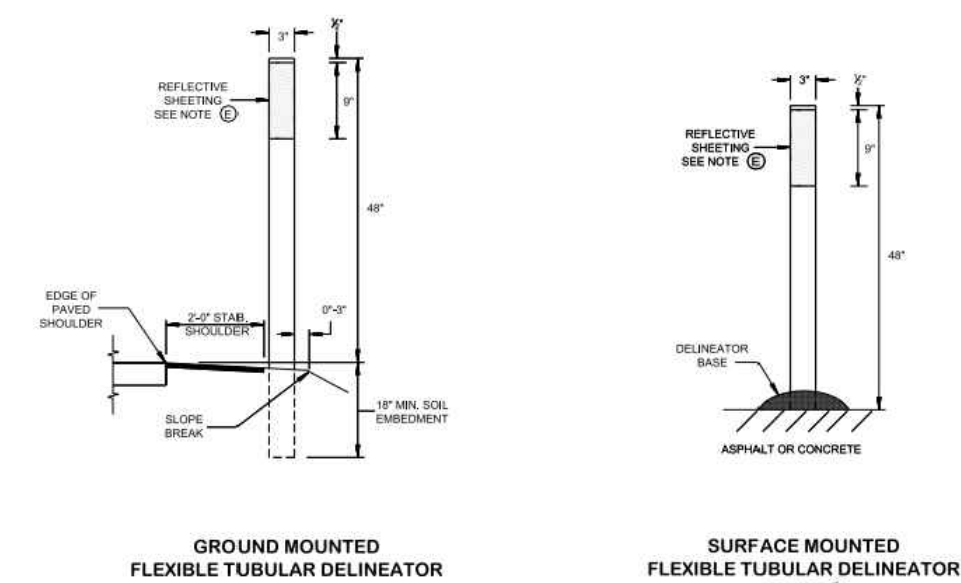


NOTES:

1. PAINT CURB EXTENSION WITHIN MARKED AREA.
2. ERADICATE ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED CURB EXTENSION.
3. ALTERNATE 3 FT BY 3 FT SQUARES IN TWO PAINT COLORS SO NO TWO ADJACENT SQUARES ARE THE SAME COLOR.
4. PAINT COLOR 1 SHALL BE BLUE AND PAINT COLOR 2 SHALL BE GREEN UNLESS SPECIFIED OTHERWISE BY THE CITY.

CURB EXTENSION DETAIL
N.T.S.

4

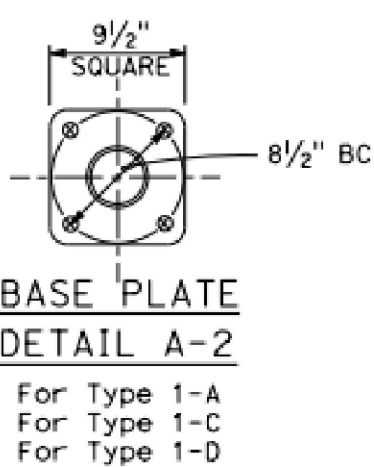


DELINEATOR POST NOTES

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DIMENSIONS, MATERIALS, AND ATTACHMENTS MAY VARY BETWEEN MANUFACTURERS.
3. DELINEATORS TO BE WHITE IN COLOR.

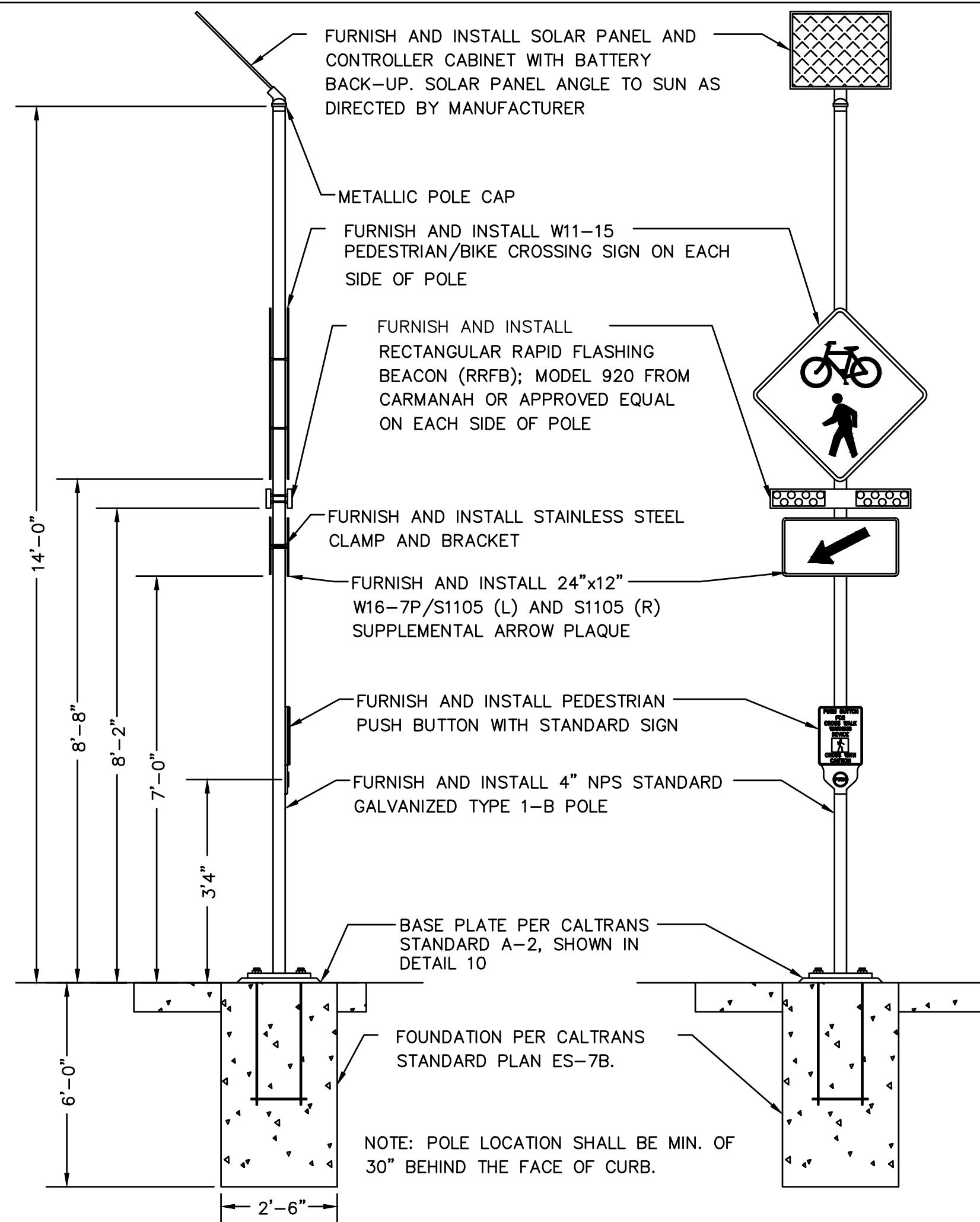
DELINEATOR POST DETAIL
N.T.S.

5



BASE PLATE DETAIL
N.T.S.

10

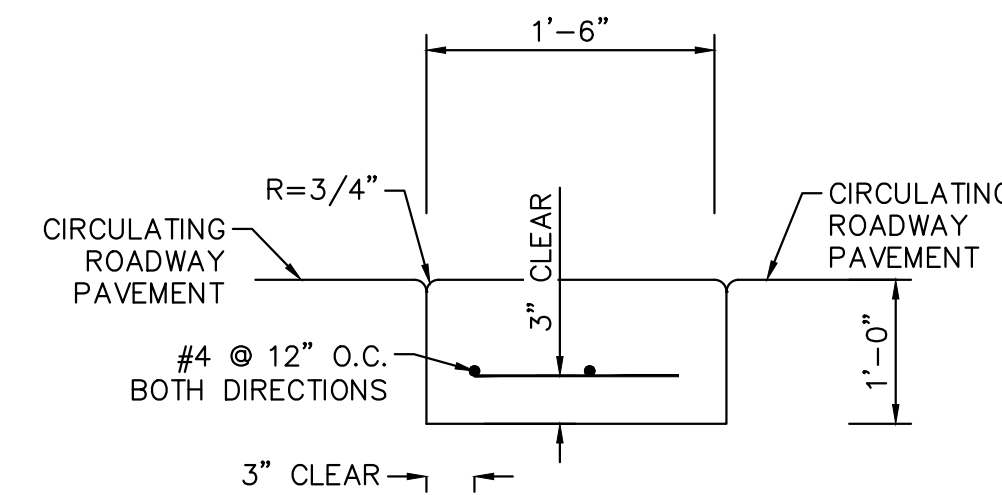


RECTANGULAR RAPID FLASHING BEACON ASSEMBLY NOTES:

1. REFER TO 2018 CALTRANS STANDARD PLAN SHEET ES-7B DETAIL A-3 FOR ADDITIONAL INFORMATION ON ASSEMBLY FOUNDATION.

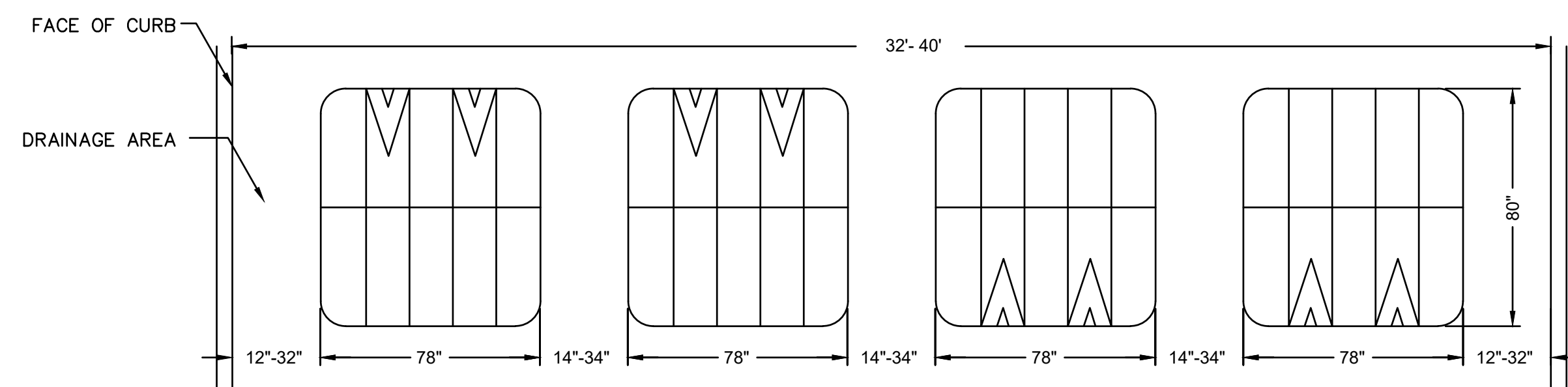
RRFB ASSEMBLY ON POLE
N.T.S.

6



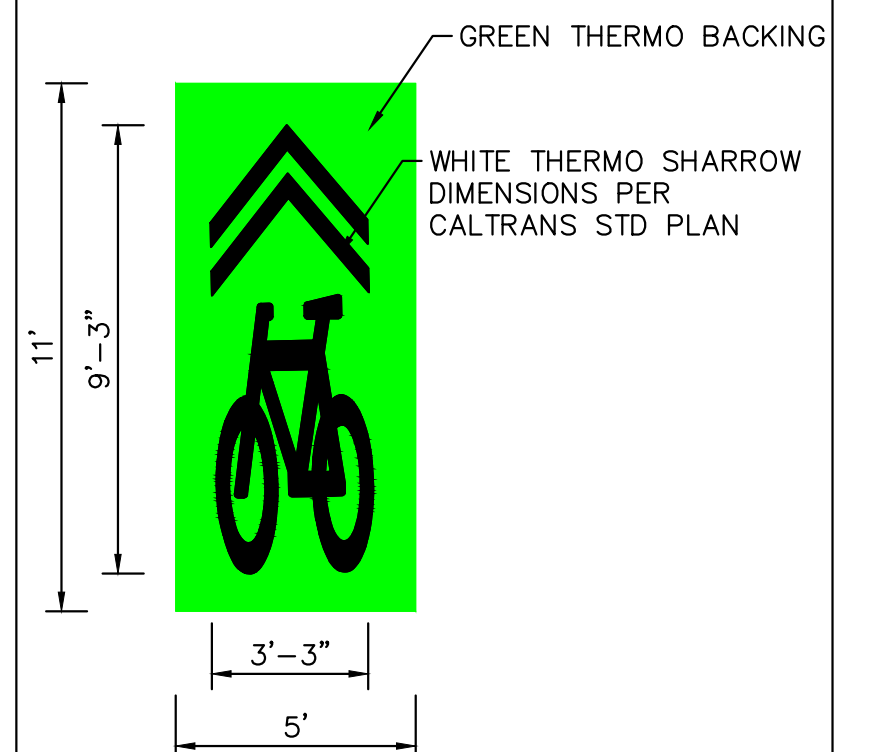
0" MOUNTABLE CURB ON SPLITTER ISLAND
N.T.S.

8



MODULAR RUBBER SPEED CUSHION PLACEMENT
N.T.S.

7



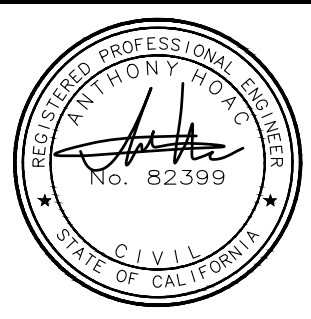
SHARROW DETAIL
N.T.S.

9

Apr 27, 2023 - 8:55am - USER: Katherine.Schmidt
K:\BAY_LDEV\097596111 - roosevelt ave. top implementation\03_CADD\plansheets\06_CD-01_CONSTRUCTION_DETAILS.dwg



Know what's below.
Call before you dig.



DATE	SYMBOL	REVISIONS	BY	CHECKED	APPROVED	CHECKED	BZH

DATE	SUBMITTED	DATE	APPROVED	DATE
	MALAHAT OWRANG		JESSICA MANZI, PE C71786	
DESIGNED	AKP			
DATE	SUBMITTED	DATE	APPROVED	DATE
	ERIK ZHEN, PE 91442			
DELINEATED	SL			
DATE	SUBMITTED	DATE	APPROVED	DATE
	PETER DELGADO, PE 77980			

FILE NO:	SCALE: AS SHOWN	AUTOCAD DRAWING FILE:
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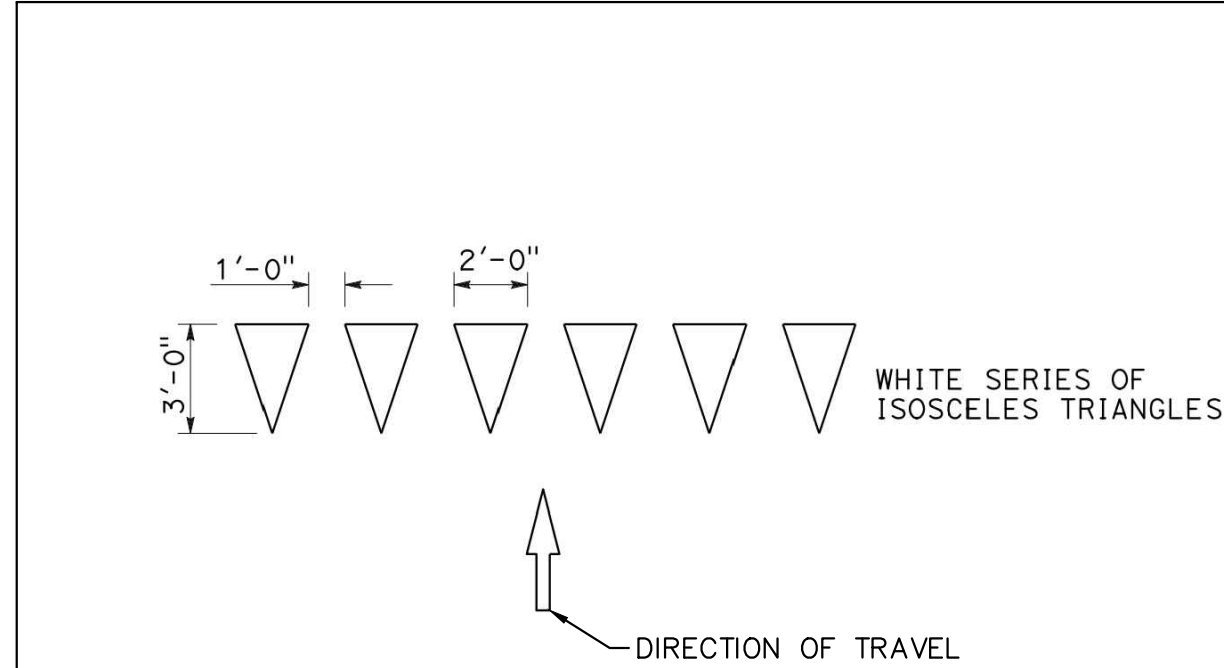
CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING AND TRANSPORTATION
CALIFORNIA

ROOSEVELT AVENUE QUICK-BUILD
TRAFFIC CALMING PROJECT
CONSTRUCTION DETAILS

CD-05

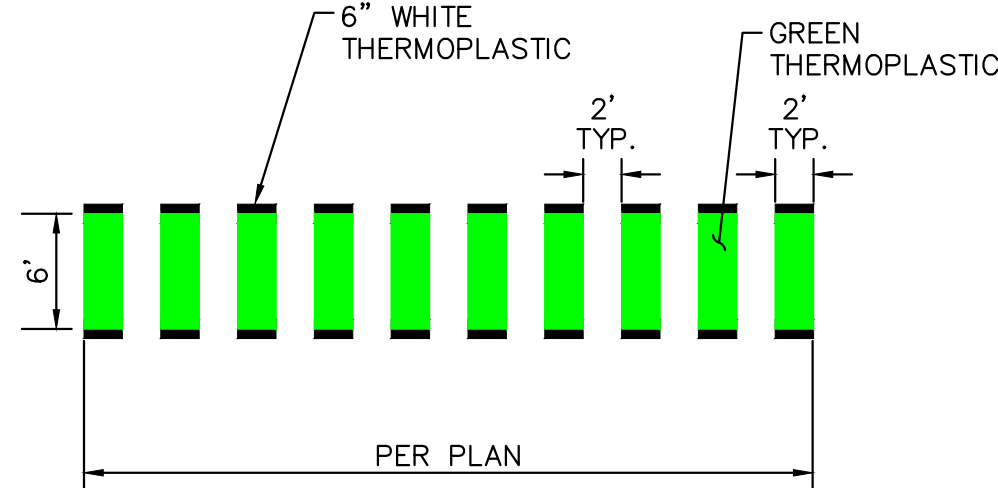
SHEET NO.	24
OF	29
SHEETS	

DRAWING NO.



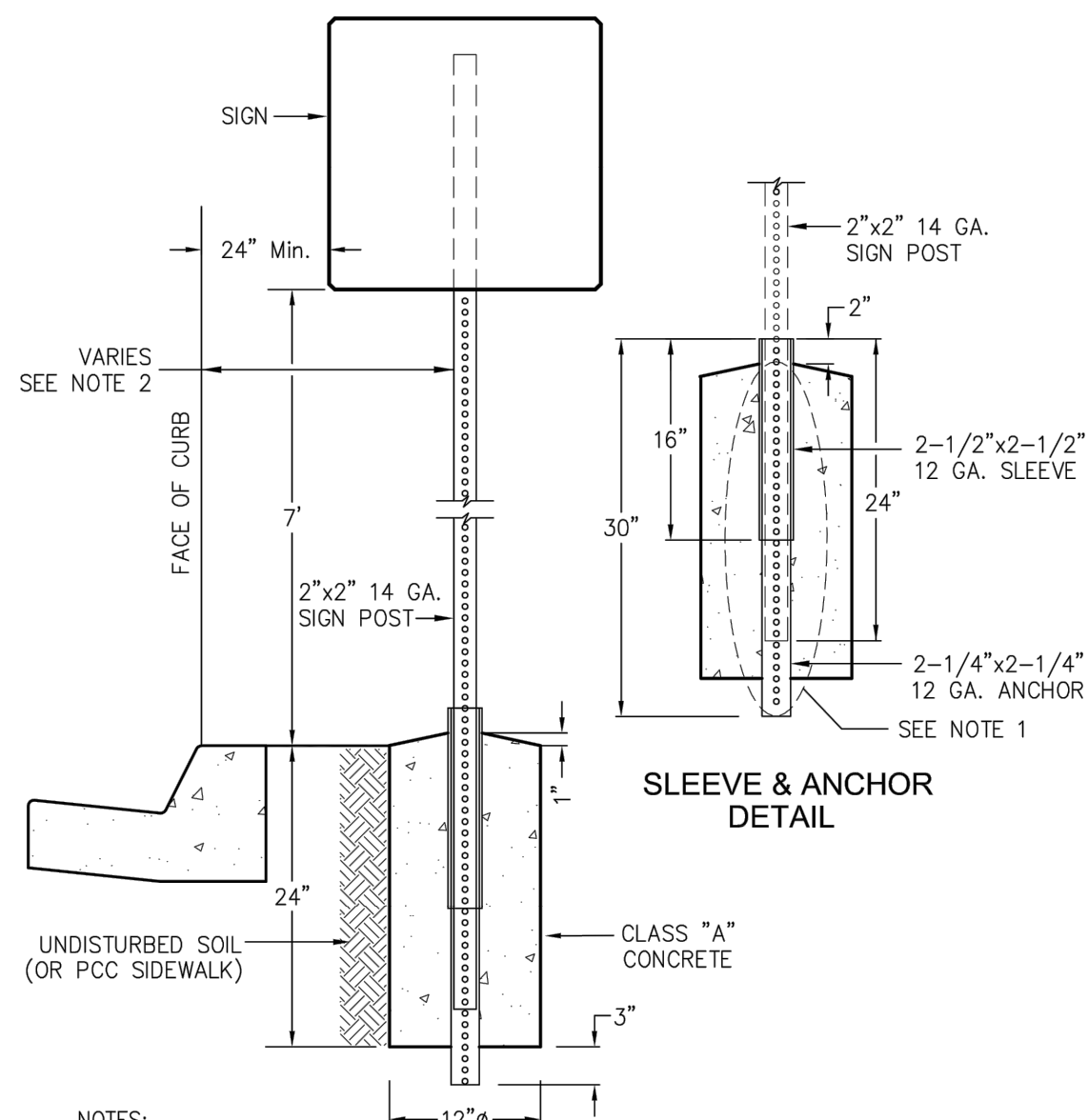
YIELD LINE DETAIL
N.T.S.

10



BIKE CROSSING
N.T.S.

11



- NOTES:
- At installation, cover holes below concrete with tape to prevent concrete from falling into sleeve and anchor
 - Distance from F.O.C. to post varies as required to maintain minimum 24" clear from F.O.C. to edge of sign as shown.

NOT TO SCALE



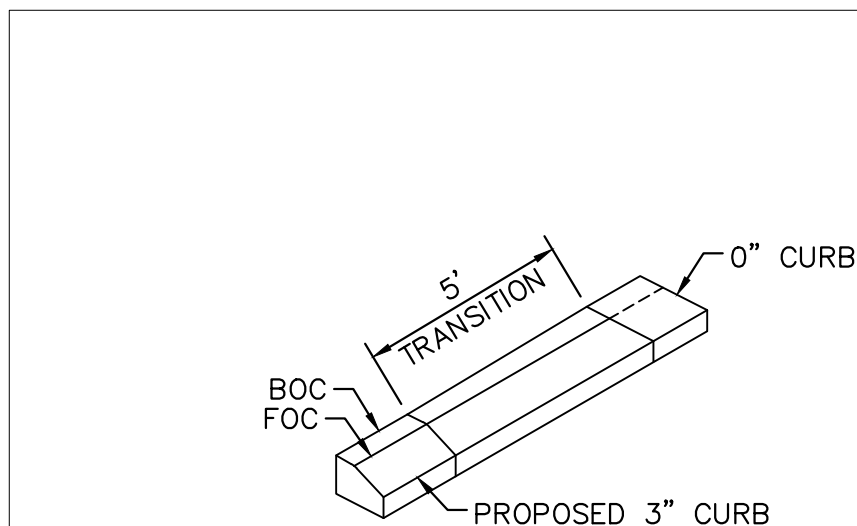
CITY OF REDWOOD CITY
ENGINEERING AND TRANSPORTATION
BREAK-AWAY SIGN POST

DATE: 06/23/14

**STANDARD
DETAIL**
T - 4
SHT 1 OF 1

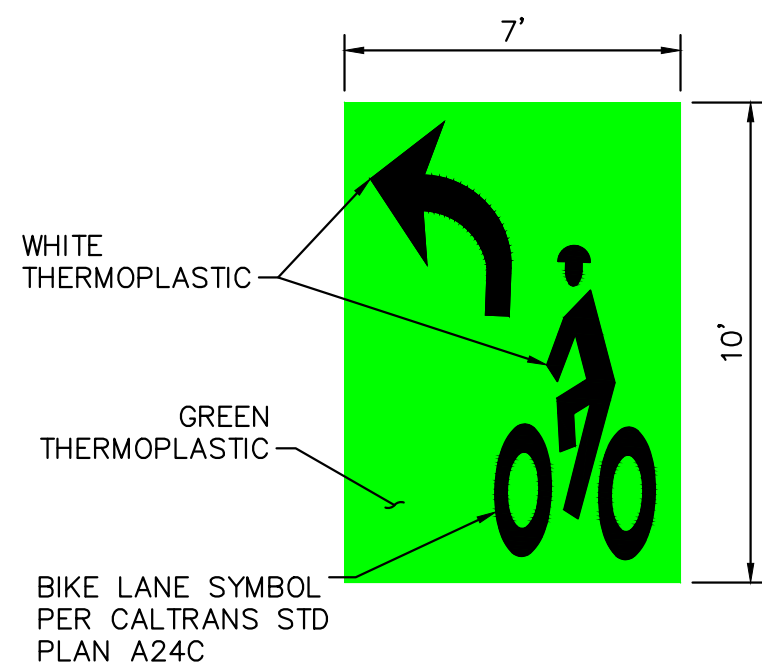
BREAK-AWAY SIGN POST DETAIL
N.T.S.

13



3" CURB TRANSITION DETAIL
N.T.S.

15



TWO STAGE BIKE QUEUE BOX DETAIL
N.T.S.

16

Roundabout Opti-Orbs



Optical 360° Visibility

OPTI-CURB 360° Optical Reflective technology illuminates and defines dark and winding roads



OPTI-CURB markers provide 360 degree visibility outlining all types of concrete and stone curbing.

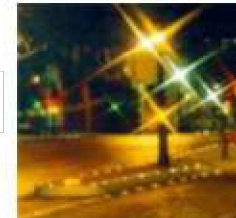
- Visible from any oncoming direction.
- OPTI-CURB is safe as tempered glass with mechanical properties harder than steel
- Opti-CURB markers reinforce the presence of curbs and straightaways for approaching motorists regardless of their entrance direction.
- Cutting edge maintenance free optical curb markers with Total Light Functioning, designed to illuminate raised curbing permanently.



Compact, 2 square inches

Opti-CURB'S compact size allows installation in less than 2 minutes when utilizing Holotool. Opti-curb is equipped with a special rubber housing with anchor lip eliminating the need for adhesives.

Opti-Curb reflective curb markers are constructed from high quality hardened glass, a material that is harder than steel, offering excellent resistance to severe outside aggressions and exceptional outlining of raised curbing.



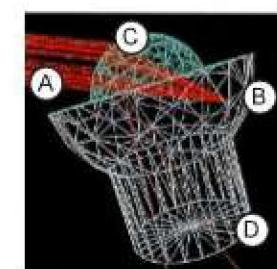
Opti-CURB's smooth surface allows it to be self-cleaning. Mechanical properties provide outstanding strength, durability and wear resistance when compared to plastic marker systems.

RECYCLABLE



www.usreflector.com

Optical Reflex Function



Omni-Reactional reflex is based on four main elements:

- A. Entrance Angle
- B. Mirror
- C. Optical dome
- D. Foot

The Incidence Surface, protruding over the curb receives the light beams from approaching vehicles.



The entrance angle of light entering the Omni-reactional lens (a), is redirected to a specific area of the metallized reflector acting as a MIRROR (b). The beam of light is then reflected back to the entrance angles source of light using the optical dome as a light pivot point. (c). The FOOT (d) supports the mirror projection lens and acts as an anchor support. This new reflex technology provides the driver with a precise and efficient light signal, even under wet conditions.

CHARACTERISTICS		
Weight	6.2 oz.	
Height/ width	1.9 x 1.9	
Material	Tempered glass	
Mechanical Strength	>15 Tons	
Removal force	110 lbs	
Installation	Mechanical	
Optical principle	Reflector	
Reflection type	Omni-reactional	

Item numbers	Colors	Price
300-GC-W	White	
300-GC-R	Red	
300-GC-G	Green	
300-GC-B	Blue	

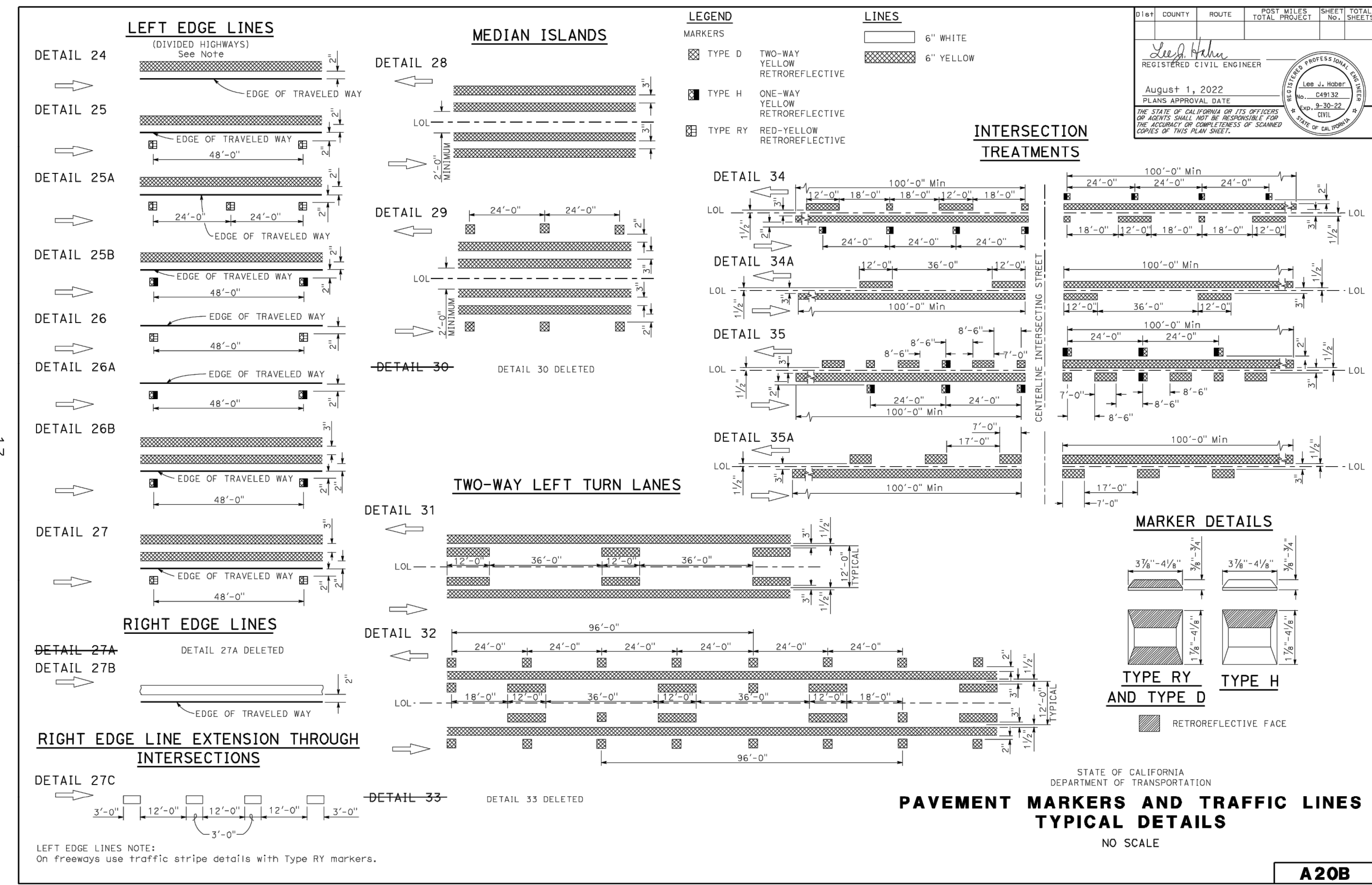
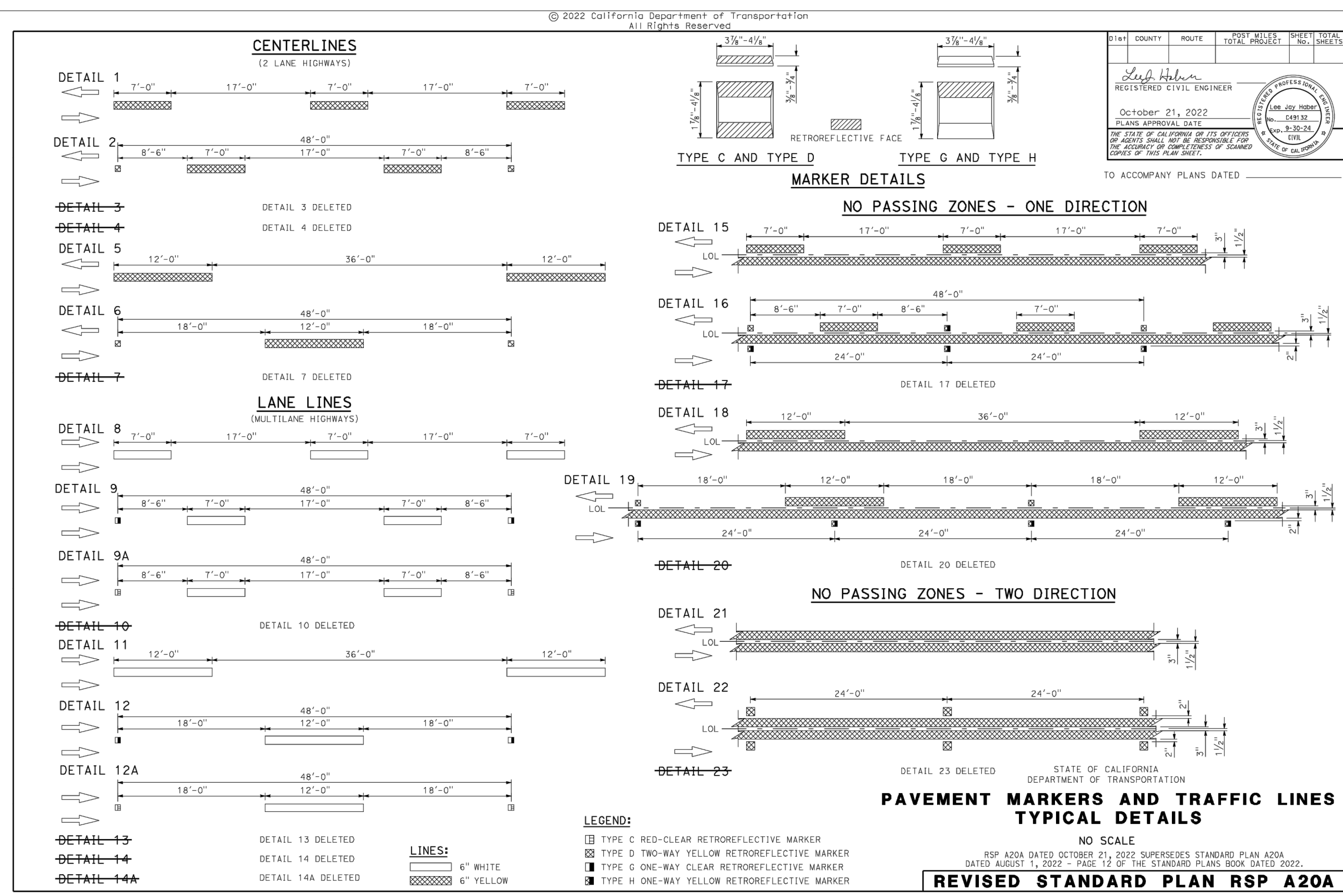
* Please contact your sales representative for quantity pricing

Page B-6

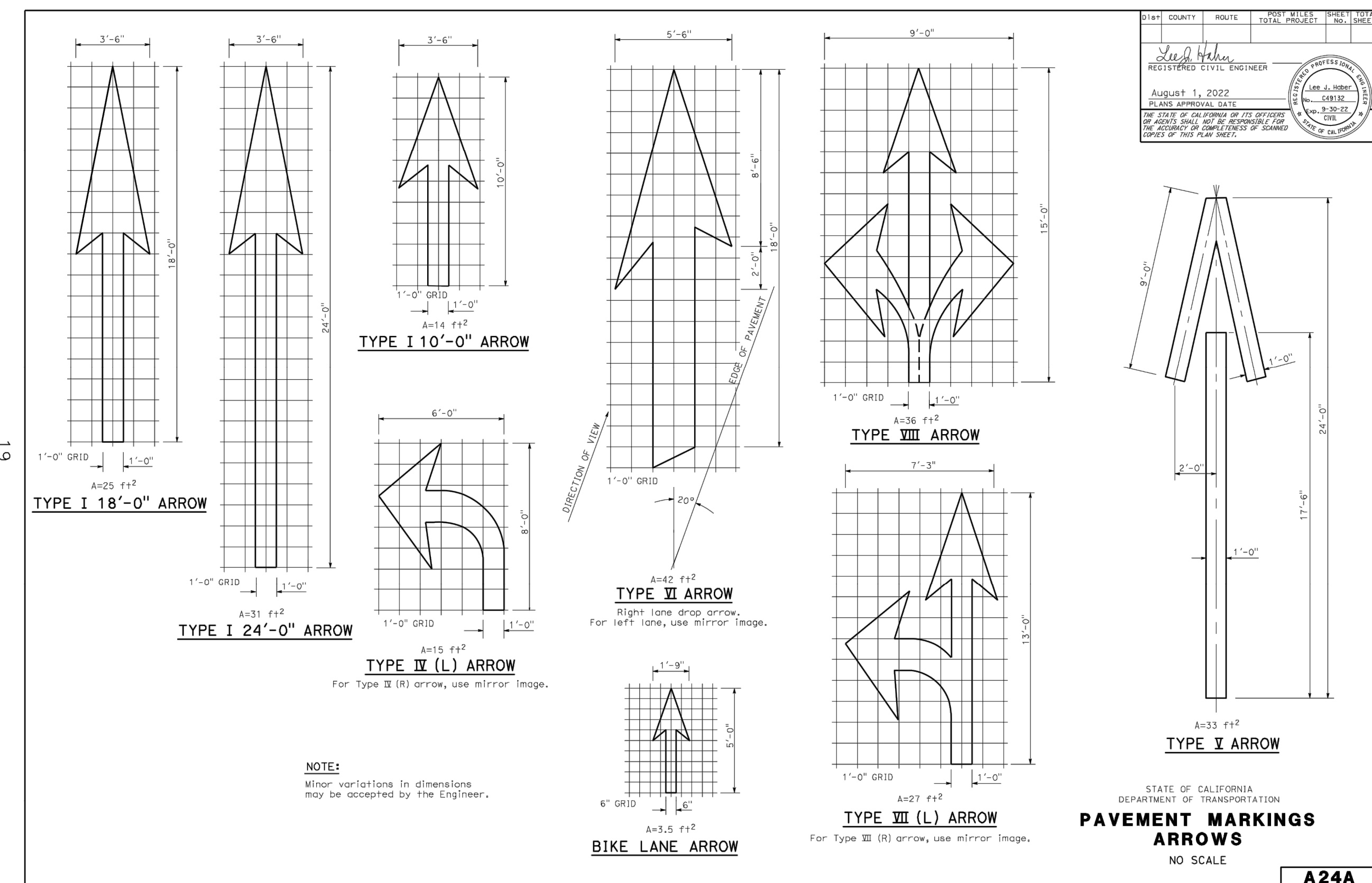
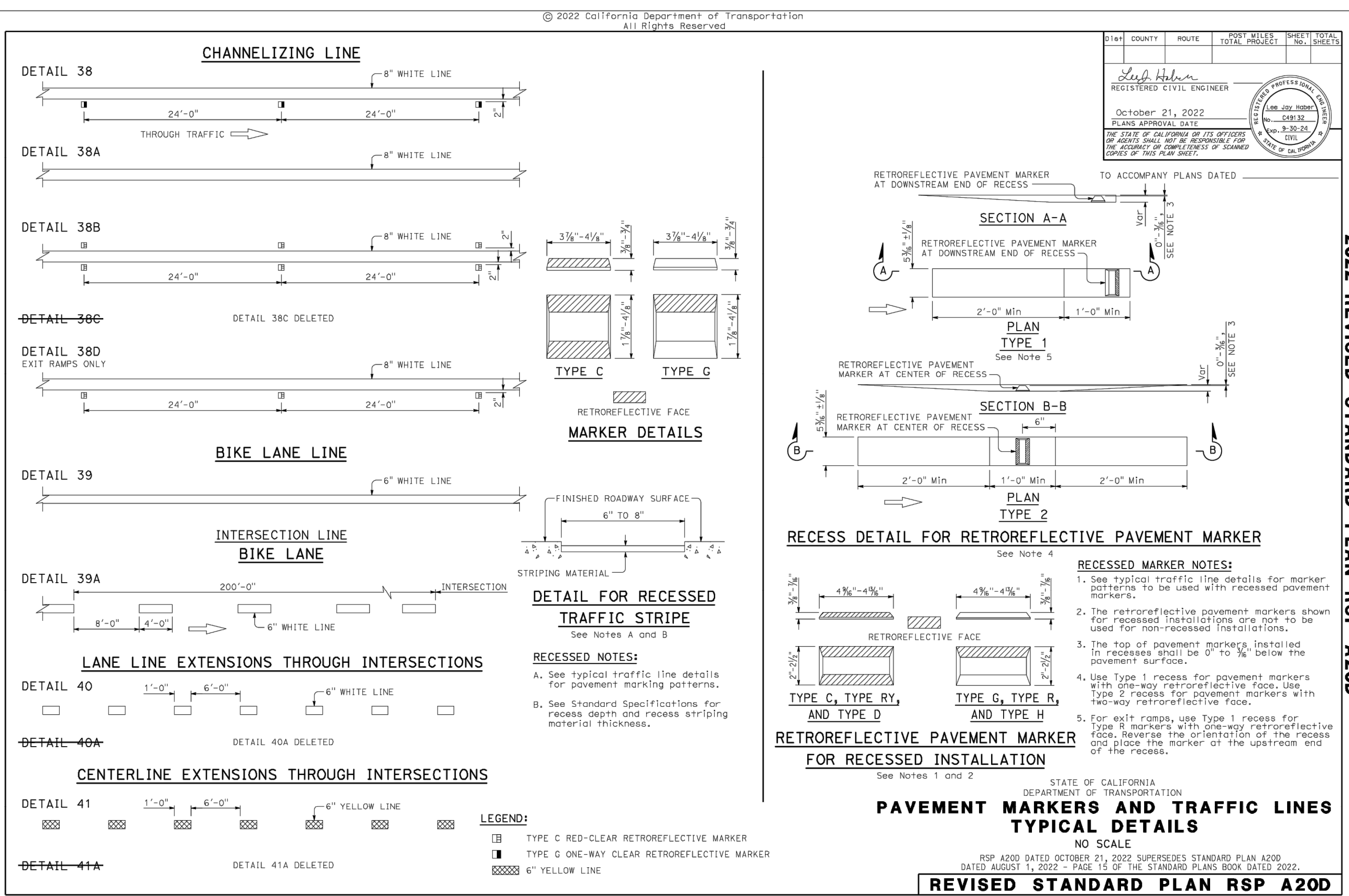


OPTI CURB DETAIL
N.T.S.

17



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[Return to Table of Contents](#)

Kimley»Horn

4637 CHABOT DRIVE, SUITE 300, PLEASANTON, CA 94588

811 Know what's below.
Call before you dig.



							DATE		SUBMITTED	DATE	APPROVED	DATE
							DESIGNED	AKP	MALAHAT OWRANG		JESSICA MANZI, PE C71786	
							DATE		SUBMITTED	DATE	APPROVED	DATE
							DELINEATED	SL	ERIK ZHEN, PE 91442			
							DATE		SUBMITTED	DATE	APPROVED	DATE
DATE	SYMBOL	REVISIONS		BY	CHECKED	APPROVED	CHECKED	P30	PETER DELGADO, PE 77980			

CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING AND TRANSPORTATION
CALIFORNIA

ROOSEVELT AVENUE QUICK-BUILD TRAFFIC CALMING PROJECT CONSTRUCTION DETAILS

CD-06

SHEET NO.
25
— OF —
29
SHEETS

DRAWING NO.

BIKE LANE SYMBOL WITHOUT PERSON

BIKE LANE SYMBOL WITH PERSON

INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING

BIKE LANE SYMBOL WITH PERSON

NUMERALS

DIAMOND SYMBOL

BICYCLE LOOP DETECTOR SYMBOL

SHARED ROADWAY BICYCLE MARKING

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NOTE:
Minor variations in dimensions may be accepted by the Engineer.

[Return to Table of Contents](#)

WORD MARKINGS

ITEM	ft+2	ITEM	ft+2	ITEM	ft+2	ITEM	ft+2
XING	21	YIELD	24	BIKE	5	PED	18
AHEAD	31	SCHOOL	35	SLOW	23	COMPACT	10
WAIT	19	SIGNAL	32	STOP	22	RUNAWAY	43
LANE	6	TURN	24	LEFT	19	VEHICLES	42
RIGHT	26	HERE	26				

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS
WORDS
NO SCALE

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WORD MARKINGS

ITEM	SOFT	ITEM	SOFT
LANE	24	NO	14
CLEAR	27	BIKE	21
KEEP	24	BUS	20
HOV	18	ONLY	22
TRAIL	23	FWY	16
EXPRS	30		

NOTES:

- If a message consists of more than one word, it must read "LEFT-TO-RIGHT" and the first word must be nearest the driver.
- The space between words must be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
- Minor variations in dimensions may be accepted by the Engineer.
- Portions of a letter, number, or symbol may be separated by connecting segments not to exceed 2" in width.
- The words "NO PARKING" pavement marking is to be used for parking violations. For typical locations of markings, see Standard Plans A90A and A90B.
- The words "NO PARKING" shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKINGS
WORDS**

NO SCALE

RSP A24E DATED OCTOBER 21, 2022 SUPERSEDES STANDARD PLAN A24E
DATED AUGUST 1, 2022 - PAGE 23 OF 166 STANDARD PLANS BOOK DATED 2022.

REVISED STANDARD PLAN RSP A24E

TYPE "A"

#4 Rebar @24" On Center When Curb & Sidewalk Are Poured Separately

See Detail "A"

DETAIL "A"

Asphalt Concrete

1/2" x 12", 2ea.

Ø Expansion Joints, Typ.

Back Of Curb For Non-Monolithic Pour

Class 2 Aggregate Base

TYPE "B"

Note 5, Typ.

Class 2 AB

TYPE "C"

Vertical Curb Only

- Expansion joints with dowels to be placed each 20' except at returns.
- Paving at gutter lip shall conform to Detail "A" in all cases, except where street slopes away from gutter, in which case, pavement surface shall match gutter lip.
- Concrete to be class "A".
- The relative composition of material below all curb, gutter & sidewalk shall not be less than 95%.
- Baserock to be extended a minimum of 2' beyond lip of gutter prior to pouring concrete.
- Where new curb and gutter is to be poured in existing streets, remove a 12" wide section of asphalt and replace with deep lift asphalt.

1/4" Expansion Joints With
1/2"x12" Slip Dowels

Install Curb Ramps
In Accordance With
CALTRANS
Standard Plan AB8A

Ramp

30"

30"

60"

5'-0"

30"

4" Min

Right Of Way Line

PLAN

NOTES:

1. 1/4" Expansion joints with 1/2"x12" slip dowels each 20' on straight sections.
2. Expansion joints to be placed with top edge 1/4" below finished surface. Dowels to be placed at right angles to joint.
3. For curb radii greater than 30ft, evenly space expansion joints along face of curb 20 to 25 feet apart.

30"

30"

60"

5'-0"

1/4" Expansion Joints
With 1/2"x12" Slip
Dowels

Type "A" Curb

5'-0"

Variable

R/W

15"

Slope 1/4" Per Foot

15"

4"

1/2"x12" Slip Dowels

4" Class A Concrete

4" Class 2 Aggregate

CROSS - SECTION

6"

3"

1/2"x12" Slip Dowels

NOT TO SCALE

CITY OF REDWOOD CITY
ENGINEERING AND TRANSPORTATION

**STANDARD
DETAIL**

C - 4
SHT 1 OF 1

Redwood
City
California
February 1989

DATE: 06/23/14

CITY OF REDWOOD CITY COMMUNITY DEVELOPMENT DEPARTMENT ENGINEERING AND TRANSPORTATION CALIFORNIA		
FILE NO:	SCALE: AS SHOWN	AUTOCAD DRAWING FILE:

ROOSEVELT AVENUE QUICK-BUILD TRAFFIC CALMING PROJECT CONSTRUCTION DETAILS

CD-07

SHEET NO.
26
— OF —
29
SHEETS

DRAWING NO.

NOTES:

1. CONTRACTOR TO INSTALL OPTI-ORBS AT THE CENTER ISLAND AND SPLITTER ISLANDS. VERIFY WITH CITY STAFF AND ENGINEER FOR EXACT LOCATIONS PRIOR TO COMMENCING WORK.

LEGEND

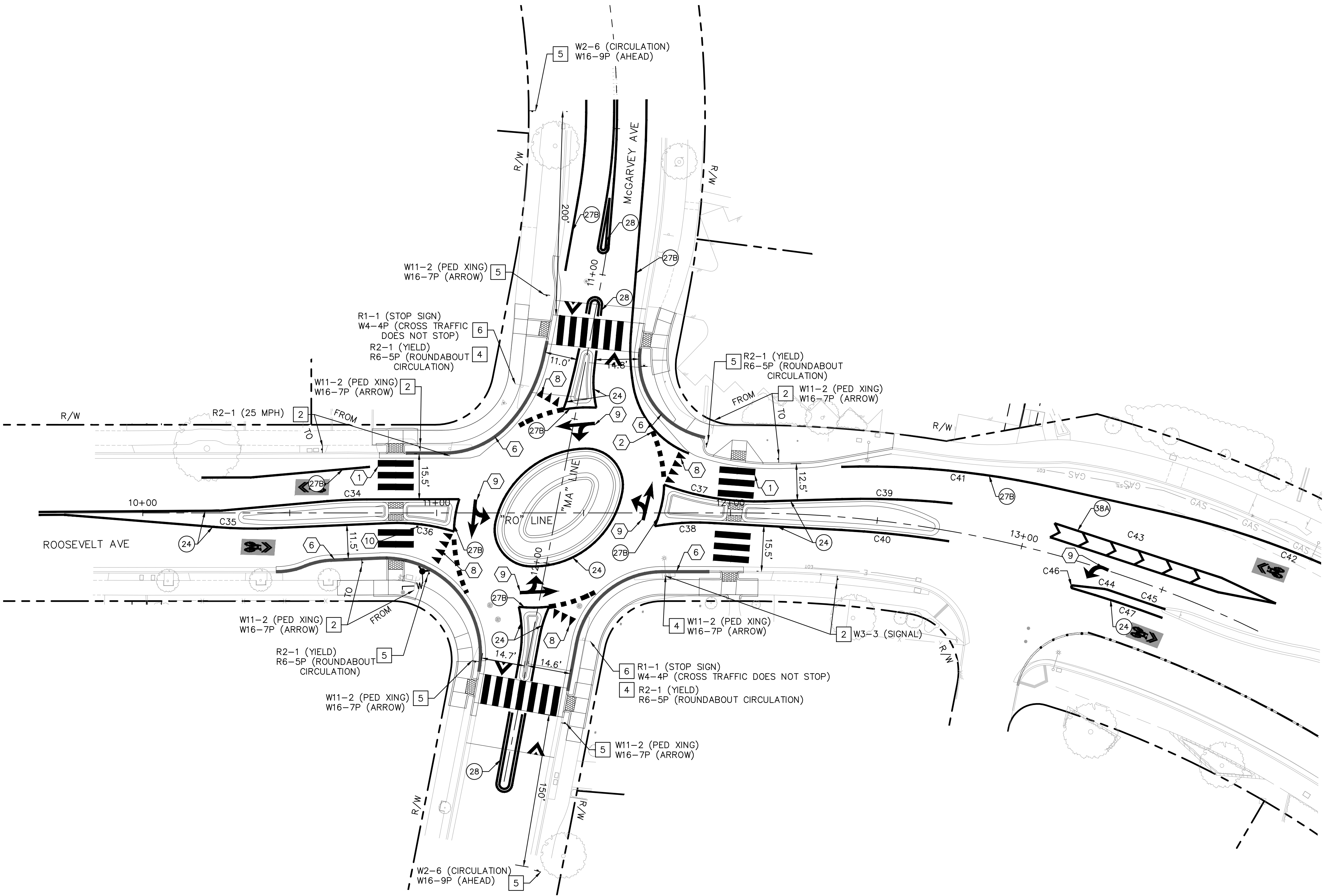
- EXISTING SIGN LOCATION
- PROPOSED SIGN LOCATION
- STRIPING DETAIL PER 2018 CALTRANS RSP

SIGN NOTES

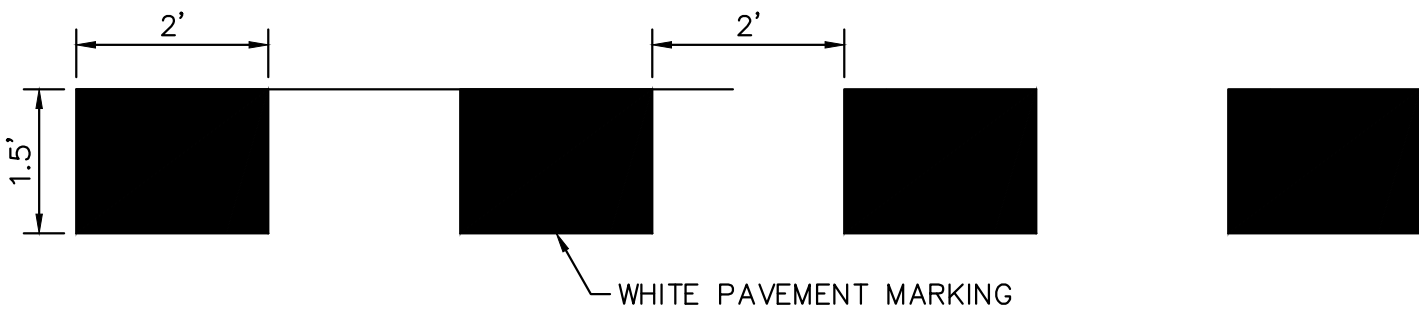
- EXISTING SIGN AND POST TO REMAIN.
- EXISTING SIGN TO BE RELOCATED.
- INSTALL NEW SIGN ON EXISTING POST.
- INSTALL NEW SIGN ON NEW POST.
- REMOVE EXISTING SIGN.

STRIPING NOTES

- INSTALL YELLOW CONTINENTAL CROSSWALK PER CALTRANS STD PLAN A24F.
- INSTALL EXTENSION OF ROADWAY EDGE LINE PER DETAIL 1, THIS SHEET.
- INSTALL RED CURB.
- INSTALL YIELD LINES PER CALTRANS STD PLAN A24E.
- INSTALL ARROW PER CALTRANS STD PLAN A24A.
- INSTALL BLUE REFLECTIVE PAVEMENT MARKER.

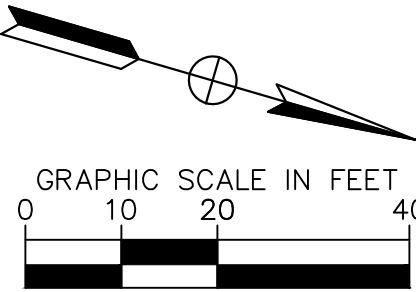


CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C34	150.00'	13.03'	N18°47'46"W	13.02'	4°58'33"	6.52'
C35	150.00'	18.67'	N15°08'26"W	18.66'	7°07'58"	9.35'
C36	65.00'	22.33'	S8°51'48"E	22.22'	19°41'14"	11.28'
C37	90.00'	34.76'	N6°46'36"W	34.55'	22°07'47"	17.60'
C38	80.00'	18.61'	S19°46'08"E	18.56'	13°19'31"	9.35'
C39	279.74'	37.52'	S13°59'56"E	37.49'	7°41'06"	18.79'
C40	361.39'	36.32'	N10°13'38"W	36.30'	5°45'29"	18.17'
C41	290.74'	72.32'	S10°42'55"E	72.14'	14°15'09"	36.35'
C42	300.00'	117.43'	N7°37'29"E	116.68'	22°25'38"	59.48'
C43	481.56'	64.28'	N0°48'36"E	64.23'	7°38'51"	32.19'
C44	5.00'	0.97'	S4°10'48"E	0.97'	11°05'08"	0.49'
C45	2208.88'	45.78'	S2°47'57"W	45.78'	1°11'15"	22.89'
C46	0.50'	1.49'	N85°02'49"E	1.00'	170°27'38"	5.99'
C47	423.20'	43.06'	N2°43'55"E	43.04'	5°49'49"	21.55'



EXTENSION OF ROADWAY EDGE LINE DETAIL
N.T.S.

1



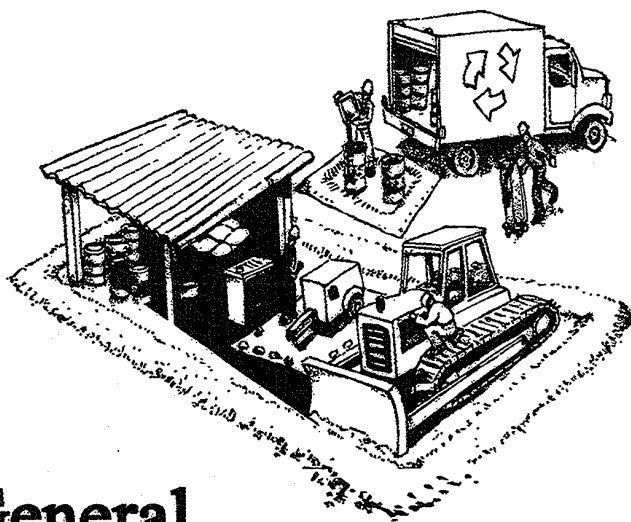
Kimley»Horn
4637 CHABOT DRIVE, SUITE 300, PLEASANTON, CA 94588



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Stormwater
Pollution Prevention Program



General Construction & Site Supervision

Advance planning prevents pollution

- ✓ Schedule excavation and grading activities for dry weather periods. To reduce soil erosion, plant temporary vegetation or place other erosion controls before rain begins.
- ✓ Locate and protect storm drains in the vicinity of the site with berms or filters during wet weather periods.
- ✓ 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 stormwater runoff velocities by constructing temporary check dams or berms where appropriate.
- ✓ Train your employees and subcontractors. Make these brochures available to everyone who works on the construction site. Inform subcontractors about the new stormwater requirements and their responsibilities.

Good housekeeping practices

- ✓ Designate one completely contained area for auto parking, vehicle refueling, and routine equipment maintenance. The designated area should be well away from streams or storm drain inlets, and bermed 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.
- ✓ Keep pollutants off exposed surfaces. Place trash cans and recycling receptacles around the site to minimize litter.
- ✓ Dry sweep paved surfaces that drain to storm drains, creeks, or channels. If pavement flushing is necessary, use silt ponds or other techniques to trap sediment and other pollutants.
- ✓ Clean up leaks, drips and other spills immediately so they do not contaminate soil or groundwater or leave residue 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 around the outside of the dumpster. A plastic liner is recommended to prevent leakage of liquids. Never clean out a dumpster by hosing it down on the construction site.
- ✓ Make sure portable toilets are maintained in good working order by the leasing company and that wastes are disposed of properly. Check toilets frequently for leaks.

Materials/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, cleared vegetation, paper, rock, and vehicle maintenance materials such as used oil, antifreeze, batteries, and tires.
- ✓ Dispose of all wastes and demolition debris properly. Many construction materials and wastes can be recycled, including solvents, water-based paints, vehicle fluids, broken asphalt and concrete, wood, and cleared vegetation. Materials and debris 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.

Heavy Equipment Operation



Site planning and preventive vehicle maintenance

- ✓ Designate a completely contained area of the construction site, well away from streams or storm drain inlets, for auto and equipment parking, refueling, and routine vehicle and equipment 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.
- ✓ 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 spent fluids, store in separate containers, and recycle whenever possible, or dispose of fluids as hazardous waste.
- ✓ Do not use diesel oil to lubricate or clean equipment or parts.
- ✓ Recycle used vehicle batteries.

Clean up spills immediately when they happen

- ✓ Never hose down "dirty" pavement or impermeable surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags) whenever possible. If you must use water, use just enough to keep the dust down.
- ✓ 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.
- ✓ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- ✓ Report significant spills to the appropriate spill response agencies immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill, call the following agencies: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

Earth-Moving Activities



During Construction

- ✓ Remove existing vegetation only when absolutely necessary.
- ✓ Seed or plant temporary vegetation for erosion control on slopes or where construction is not immediately planned.
- ✓ Protect downslope drainage courses, streams, and storm drains with hay bales, temporary drainage swales, silt fences, berms or storm drain inlet filters.
- ✓ Use check dams or ditches to divert runoff around excavations and graded areas.
- ✓ Cover stockpiles and excavated soil with secured tarps or plastic sheeting.
- ✓ Properly monitor and maintain all erosion and sediment controls.
- ✓ Properly report failures of erosion and sediment controls to the local stormwater authority.
- ✓ General Business Practices
 - ✓ Schedule excavation and grading work for dry weather.
 - ✓ Perform major equipment repairs away from the job site.

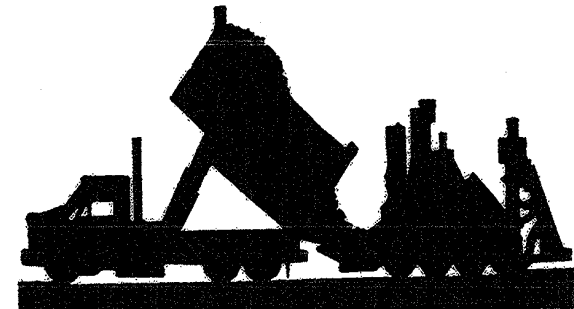
- ✓ When refueling or when vehicle/equipment maintenance must be done on site, work within a completely bermed area away from storm drains.
- ✓ Do not use diesel oil to lubricate or clean equipment or parts.

Watch for soil and ponded groundwater that may be contaminated.

If any of these conditions are observed, test for contamination and contact the Regional Water Quality Control Board:

- Unusual soil conditions, discoloration, or odor
- Abandoned underground tanks
- Abandoned wells
- Buried barrels, debris, or trash.

Roadwork & Paving



- ✓ Develop and implement erosion/sediment control plans for roadway embankments.
- ✓ Schedule excavation and grading work for dry weather.
- ✓ Check all equipment for leaks and repair leaking equipment promptly.
- ✓ Perform major maintenance, repairs, and washing of equipment away from the construction site.
- ✓ When refueling or vehicle/equipment maintenance must be done on site, designate a completely contained area away from storm drains and creeks.
- ✓ Do not use diesel oil to lubricate or clean equipment or parts.
- ✓ Recycle used oil, batteries, concrete, broken asphalt, etc. whenever possible.
- ✓ Train employees in using these best management practices.

During Construction

- ✓ Avoid paving and seal coating in wet weather, or when rain is forecast before fresh pavement will have time to cure.
- ✓ Cover and seal catch basins and manholes when applying seal coat, slurry seal, fog seal, etc.
- ✓ Use check dams, ditches, or berms to divert runoff around excavations.
- ✓ 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 and other construction materials with plastic tarps. Protect from rainfall and prevent runoff with temporary roofs or plastic sheets and berms.
- ✓ Catch drips from paver with drip pans or absorbent material (cloth, rags, etc.) placed under machine when not in use.
- ✓ Clean up all spills and leaks using "dry" methods (with absorbent materials/rags), or dig up and remove 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 from the site.
- ✓ Make sure broken pavement does not come in contact with rainfall or runoff.
- ✓ Protect nearby storm drain inlets during saw-cutting. Shovel or vacuum saw-cut slurry deposits and remove from the site.
- ✓ Never hose down streets to clean up tracked dirt. Use dry sweep methods.

Fresh Concrete & Mortar Application



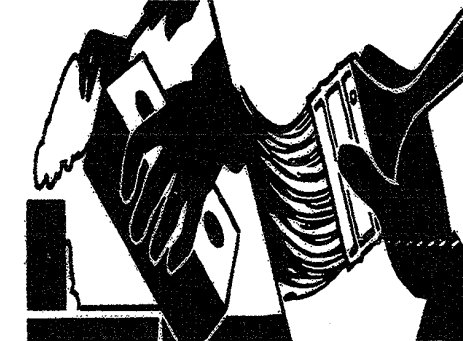
General Business Practices

- ✓ Both at your yard and the construction site, always store both dry and wet materials under cover, protected from rainfall and runoff. Protect dry materials from wind.
- ✓ Secure bags of cement after they are open. Be sure to keep wind-blown cement powder away from gutters, storm drains, rainfall, and runoff.
- ✓ Wash out concrete mixers only in designated wash-out areas in your yard, where the water will flow into containment ponds or onto dirt. Let concrete harden and dispose of as garbage. Whenever possible, recycle washout by pumping back into mixers for reuse. Never dispose of washout into the street, storm drains, drainage ditches, or streams.

During Construction

- ✓ Don't mix up more fresh concrete or cement than you will use in a day.
- ✓ 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.
- ✓ Prevent aggregate wash from driveway/patio construction from entering storm drains. Hose aggregate wash onto dirt areas and spade into dirt.
- ✓ Place hay bales or other erosion controls downslope to capture runoff carrying mortar or cement before it reaches the storm drain.
- ✓ When breaking up paving, be sure to pick up all the pieces and dispose properly.
- ✓ Recycle large chunks of broken concrete at a landfill.
- ✓ Dispose of small amounts of excess dry concrete, grout, and mortar in the trash.
- ✓ Never bury solid or hazardous waste material.

Painting & Application of Solvents & Adhesives



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).

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. Rinse to the sanitary sewer once you have gained permission from the local wastewater treatment authority. Never pour paint down a 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 residue 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 or tributyl tin must be disposed of as hazardous wastes.
- ✓ When stripping or cleaning building exteriors with high-pressure water, block storm drains. Wash water onto a dirt area and spade 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 to the sanitary sewer. Sampling of the water may be required to assist the wastewater treatment authority in making its decision.

Recycle/reuse leftover paints whenever possible.

- ✓ Recycle or dispose of excess water-based paint at a household hazardous waste collection facility, or use up. When they are thoroughly dry, empty paint cans, used brushes, rags, and drop cloths may be disposed of as garbage in a sanitary landfill.
- ✓ Reuse leftover oil-based paint. Dispose of excess liquid, including sludges, as hazardous waste.
- ✓ Small quantity generators should check with the San Mateo County Environmental Health Division regarding recycling or hazardous waste disposal.
- ✓ Unopened cans of paint may be able to be returned to the paint vendor. Check with the vendor regarding its "buy-back" policy.

Landscaping, Gardening, and Pool Maintenance



- ✓ 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 for dry weather.
- ✓ Use temporary check dams or ditches to divert runoff away from storm drains.
- ✓ Protect storm drain inlets with hay bales, berms, filter mats or other inlet protection measures.
- ✓ Revegetation is an excellent form of erosion control for any site.

Landscaping/Garden Maintenance

- ✓ Use up pesticides and follow label directions. Rinse containers, and use rinsewater as product. Dispose of rinsed 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.
- ✓ Do not place yard waste in gutters. In communities with curbside yard waste recycling, leave clippings and pruning waste for pickup in approved bags or containers. Or, take to a landfill that composts yard waste.
- ✓ Do not blow or rake leaves, etc. into the street.

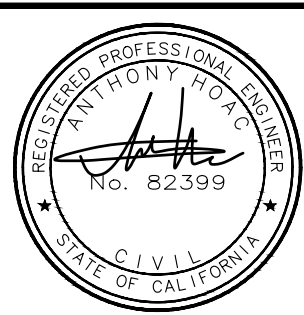
Pool/Fountain/Spa Maintenance

- ✓ Never discharge chlorinated pool or spa water to a street or storm drain.
- ✓ When emptying a pool or spa, let chlorine dissipate for 5 to 7 days. Then recycle water by draining it gradually onto a landscaped area, or drain the dechlorinated water to a storm drain.
- ✓ Chlorinated water may be discharged to the sanitary sewer (if allowed by the local sewage treatment authority) by running a hose to a utility sink or sewer pipe cleanout junction.
- ✓ Do not use copper-based algaecides. Control algae with chlorine or other alternatives to copper-based pool chemicals. Copper is harmful to aquatic life and cannot be completely removed by the sewage treatment plant.

Storm drain polluters may be liable for fines of up to \$25,000 per day!



Know what's below.
Call before you dig.



DATE	SYMBOL	REVISIONS	BY	CHECKED	APPROVED	CHECKED	BZH

SUBMITTED	DATE	APPROVED	DATE
MALAHAT OWRANG		JESSICA MANZI, PE C71786	
SUBMITTED	DATE	APPROVED	DATE
ERIK ZHEN, PE 91442			
SUBMITTED	DATE	APPROVED	DATE
PETER DELGADO, PE 77980			

CITY OF REDWOOD CITY
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING AND TRANSPORTATION
CALIFORNIA

FILE NO.: SCALE: AS SHOWN AUTOCAD DRAWING FILE:

ROOSEVELT AVENUE QUICK-BUILD
TRAFFIC CALMING PROJECT
STORMWATER POLLUTION PREVENTION
PLAN

SW-01

SHEET NO.	29
OF	29
SHEETS	

Kimley»Horn

4637 CHABOT DRIVE, SUITE 300, PLEASANTON, CA 94588

DRAWING NO.