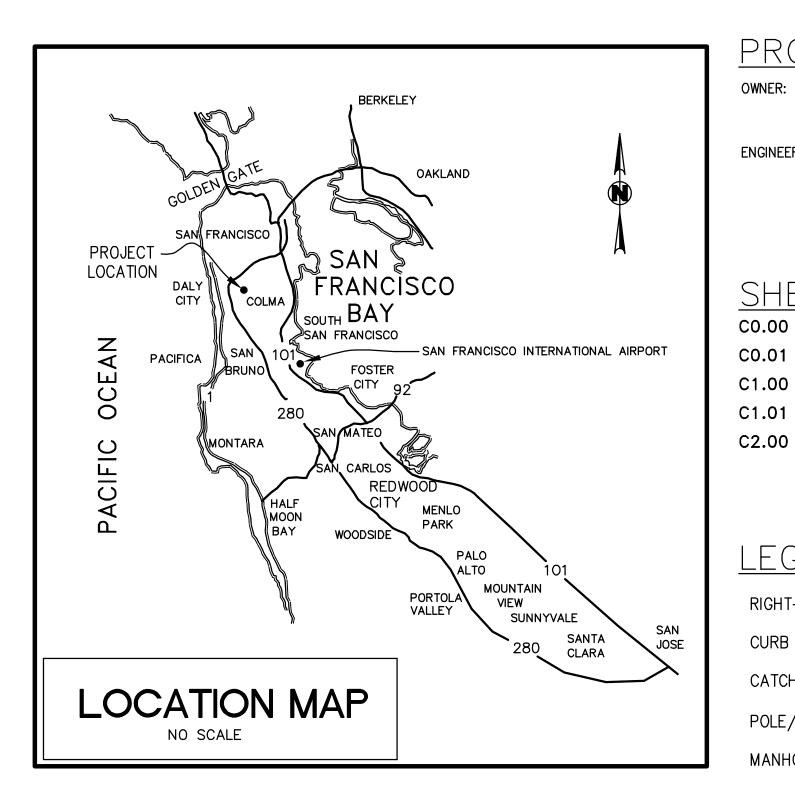
ATTACHMENT A – TOP FIVE 30 PERCENT DESIGN PLANS AND COST ESTIMATES



PROJECT SUMMARY

TOWN OF COLMA 1198 EL CAMINO REAL COLMA, CA 94014

BKF ENGINEERS

255 SHORELINE DRIVE REDWOOD CITY, CA 94065 (650) 482-6300

TITLE SHEET TYPICAL SECTIONS PLAN, SIGNING & STRIPING PLAN, SIGNING & STRIPING

DETAILS

SIGN WITH POST(S)

TRAFFIC SIGNAL POLE

FENCE

<u>LEGEND</u>	EXISTING	PROPOSED
RIGHT-OF-WAY	— — —	TROF OSED
CURB AND GUTTER	======	
CATCH BASIN UTILITY		
POLE/GUY-WIRE	$\longrightarrow \longleftarrow$	
MANHOLE	0	
PARKING STALL CROSSLI	NE + +	+ +
UTILITY BOX/VAULT	0 🗆 📋	
STREET LIGHT	• *	
BIKE LANE SYMBOL	3 00 ⇒	} ∞ ⇒

GENERAL NOTES

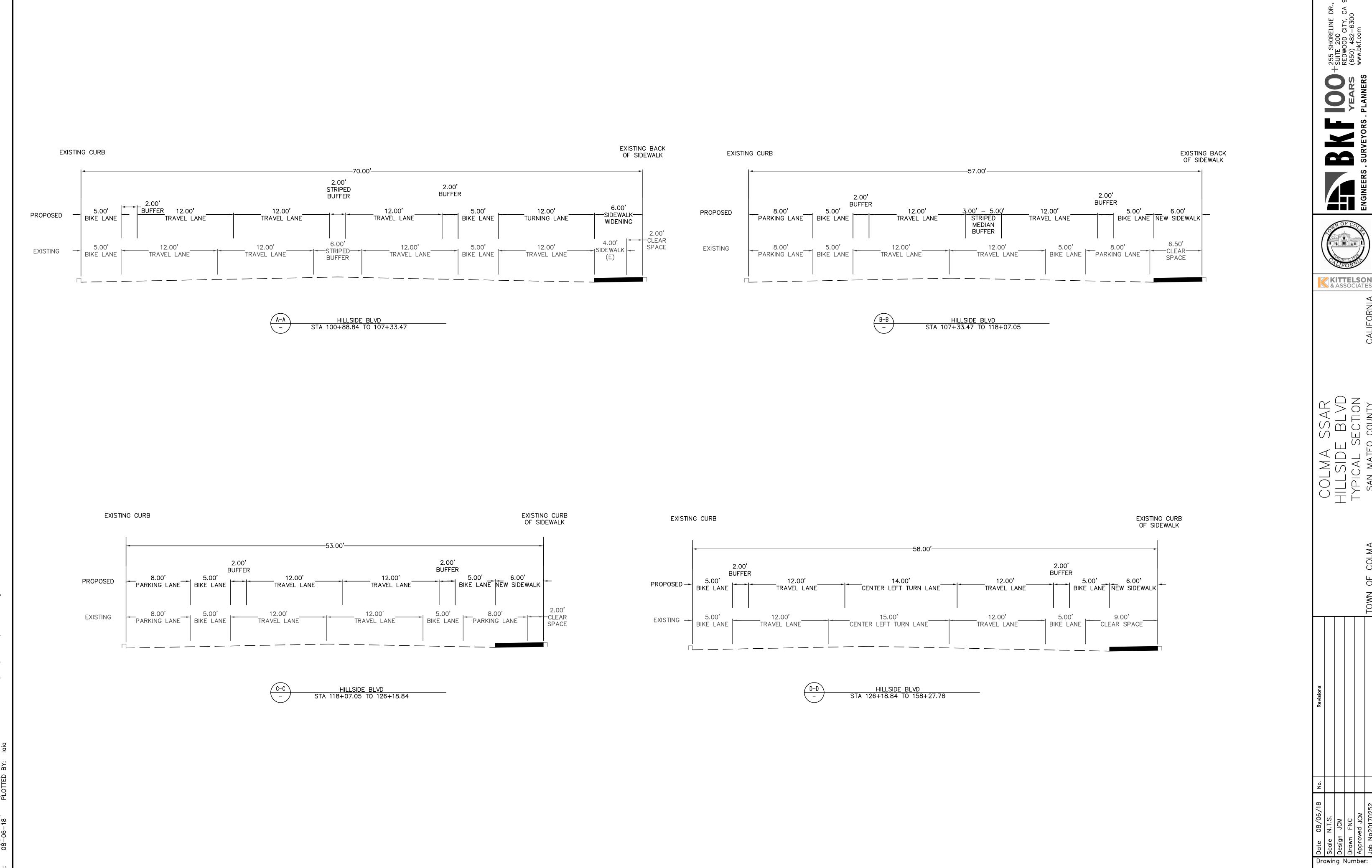
- 1. THE PROPOSED IMPROVEMENTS SHOWN ON THESE DRAWINGS ARE SUPERIMPOSED ON A BASE SHEET. THE BASE DOES
- 2. WORK SHALL BE PREFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, TOWN OF COLMA STANDARDS,

- 6. EXISTING PUBLIC PEDESTRIAN WALKWAYS, BIKEPATHS & HANDICAP ACCESS PATHWAYS SHALL BE MAINTAINED DURING
- 7. SHOULD IT APPEAR THAT THE WORK OUTLINED ON THESE PLANS IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN
- 9. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
- 10. CONTRACTOR SHALL COMPLY WITH STATE, COUNTY AND CITY LAWS AND ORDINANCES: AND REGULATIONS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS, OSHA AND INDUSTRIAL ACCIDENT COMMISSION RELATING TO SAFETY AND CHARACTER OF WORK. EQUIPMENT AND LABOR PERSONNEL.
- 11. CONTRACTOR TO REMOVE EXISTING PAVEMENT MARKINGS OR MARKERS WITHIN THE LIMITS OF WORK PRIOR TO MICROSURFACING, CONTRACTOR TO MICROSURFACE THE PROJECT LIMIT.
- 12. RECONSTRUCT DRIVEWAYS AND WALKWAYS TO RIGHT-OF WAY AS NEED TO CONFORM.
- 13. CONTRACTOR TO MAINTAIN 7' VERTICAL CLEARANCE BELOW PROPOSED IMPROVEMENTS INCLUDING BUT NOT LIMITED TO ALL NEW SIGNAGE, RRFB ASSEMBLIES, AND POWER SUPPLIES.
- 14. CONTRACTOR SHALL ACQUIRE CITY APPROVAL OF STRIPING LAYOUT, BASED ON CAT TRACKS, PRIOR
- 15. ALL RECTANGULAR RAPID FLASHING BEACONS SHALL ADHERE TO FHWA INTERIM APPROVAL IA-21 MEMORANDUM: MUTCD INTERIM APPROVAL FOR OPTIONAL USE OF PEDESTRIAN-ACTUATED RECTANGULAR RAPID-FLASHING BEACONS AT UNCONTROLLED MARKED CROSSWALKS.

ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AB	AGGREGATE BASE	MSEP	MINOR SIDEWALK
AC	ASPHALT CONCRETE		ENCROACHMENT PERMIT
AD	AREA DRAIN	MVG	MODIFIED VALLEY GUTTER
ADD'L	ADDITIONAL	N	NORTHING
AGG APPROX	AGGREGATE APPROXIMATE	NG NO., #	NATURAL GROUND NUMBER
AVG	AVERAGE	NO., # NTS	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR	(N)	NEW
,	TESTING MATERIALS	P.A.E.	PUBLIC ACCESS EASEMENT
AWWA	AMERICAN WATER WORKS	O.C.	ON CENTER
	ASSOCIATION	ОН	OVERHEAD
BLDG	BUILDING	(P)	PROPOSED
BM	BENCH MARK	Р	PAD
BOW BPM	BOTTOM OF WALL BLUE PAVEMENT MARKER	PCC	POINT OF COMPOUND CURVE
BW	BACK OF WALK	PE	PORTLAND CEMENT CONCRETE PAD ELEVATION OR
CB	CATCH BASIN	ГЦ	POLYETHYLENE
CF	CUBIC FEET	PG&E	PACIFIC GAS AND ELECTRIC
C&G	CURB & GUTTER	PI	POINT OF INTERSECTION
CL, Q	CENTERLINE	PL, Ł	PROPERTY LINE
CO	CLEANOUT	PP [´]	POWER POLE
CONC	CONCRETE	PR	PROPOSED
CY	CUBIC YARD	PRC	POINT OF REVERSE CURVATUR
DIA DR.	DIAMETER DRIVE	PT	POINT
DW.	DOMESTIC WATER	PUE R	PUBLIC UTILITY EASEMENT RADIUS
D/W	DRIVEWAY	RD	ROAD
(F)	EXISTING	RCP	REINFORCED CONCRETE PIPE
(É) E	ELECTRICAL, or EASTING	RIM	RIM ELEVATION
EA	EACH	RPA	REDUCED PRESSURE ASSEMBL
EC	END OF CURB	RRFB	RECTANGULAR RAPID FLASHIN
EG	EXISTING GRADE	DI DT	BEACON
EL	ELEVATION	Rt, RT	RIGHT
EP ESMT	EDGE OF PAVEMENT EASEMENT	R/W S	RIGHT OF WAY SLOPE
F/C	FACE OF CURB	SDAD	STORM DRAIN AREA DRAIN
FG	FINISH GRADE	SDCB	STORM DRAIN CATCH BASIN
FH .	FIRE HYDRANT	SDJB	STORM DRAIN JUNCTION BOX
FL	FLOW LINE	SF	SQUARE FEET
FP	FINISHED PAVEMENT	SHT	SHEET
FT	FEET	SNS	STREET NAME SIGN
G	GAS	STA STD	STATION STANDARD
GB GE	GRADE BREAK GRATE ELEVATION	S/W, SW	SIDEWALK
GND	GROUND	3/W, 3W T	TELEPHONE
GR	GRADE	Т&В	TOP AND BOTTOM
GV	GATE VALVE	TC	TOP OF CURB
JB	JOINT BOX	TEMP	TEMPORARY
JP	JOINT POLE	TP.	TOP OF PAVEMENT
JT	JOINT TRENCH	TW	TOP OF WALL
L LF	LENGTH	TYP. UG	TYPICAL UNDER GROUND
LF LP	LINEAR FEET LOW POINT	VCP	VITRIFIED CLAY PIPE
Lt, LT	LEFT	VERT	VERTICAL
MAX	MAXIMUM	W/	WITH
MH	MANHOLE	w/o	WITHOUT
MIN	MINIMUM	W	WATER
MIS	MISCELLANEOUS	WH	WALL HEIGHT

The state of the s	SANDHILL RD	
SERRAMON	HILLSIDE BLVD	
VICINITY MAP NO SCALE		LAWNDAL



の BKF Engineers

- CALTRANS A24C BIKE LANE SYMBOL - PEDESTRIAN XING SIGN WITH WITH PERSON (TYP.) PED-ACTIVATED RECTANGULAR RAPID FLASHING BEACONS (RRFB) (N) YIELD TO PEDESTRIANS (N)PEDESTRIAN XING AHEAD PEDESTRIAN -LANDING AREA SIGN (W11-2 & -(N)YIELD LINE (A24E) W16-9P) 111+00 102+00 100+00 HILLSIDE BLVD (N) YIELD LINE (A24E) (N) YIELD TO PEDESTRIANS HERE -(N) 6' WIDE SIDEWALK - CALTRANS RSP A88A -CASE C CURB RAMP CONFORM TO (N)PEDESTRIAN XING AHEAD-DRIVEWAY CURB RAMP (C2,00) EXISTING DRIVEWAY SIGN (W11-2 & W16-9P) FROM 4' TO 6' 1 DRIVEWAY CURB RAMP CALTRANS RSP A88A -TYPICAL ONE-RAMP CORNER - CONFORM TO EXISTING DRIVEWAY PEDESTRIAN XING SIGN WITH— PED—ACTIVATED RECTANGULAR RAPID FLASHING BEACONS INSTALLATION KITTELSON & ASSOCIATES - CALTRANS CASE C CURB RAMP (RSP A88A) PEDESTRIAN XING SIGN WITH PED-ACTIVATED RECTANGULAR RAPID — CALTRANS A24C FLASHING BEACONS (RRFB) -(N)PEDESTRIAN XING AHEAD SIGN BIKE LANE SYMBOL WITH (N)YIELD TO PEDESTRIANS PERSON (TYP.) HERE (R1-5) 125+00 115+00 HILLSIDE BLVD 116+00 124+00 117+00 (N)CALTRANS A24F — LADDER CROSSWALK (N)PEDESTRIAN XING AHEAD (N) 6' WIDE SIDEWALK SIGN (W11-2 & W16-9P) - CONFORM TO EXISTING DRIVEWAY (N) YIELD TO PEDESTRIANS -PEDESTRIAN XING SIGN WITH PED-ACTIVATED RECTANGULAR HERE (R1-5) RAPID FLASHING BEACONS (RRFB) (N)YIELD LINE (A24E) GRAPHIC SCALE CALTRANS A24C BIKE LANE SYMBOL WITH PERSON (TYP.) **≠** • • • HILLSIDE BLVD 125+00 126+00 .4\2017\170252 PLOTTED BY: RELOCATE - RELOCATE CATCH BASIN CATCH BASIN (N) 6' WIDE SIDEWALK RELOCATE CATCH CONFORM
TO EXISTING
DRIVEWAY BASIN GRAPHIC SCALE

© BKF Engineers

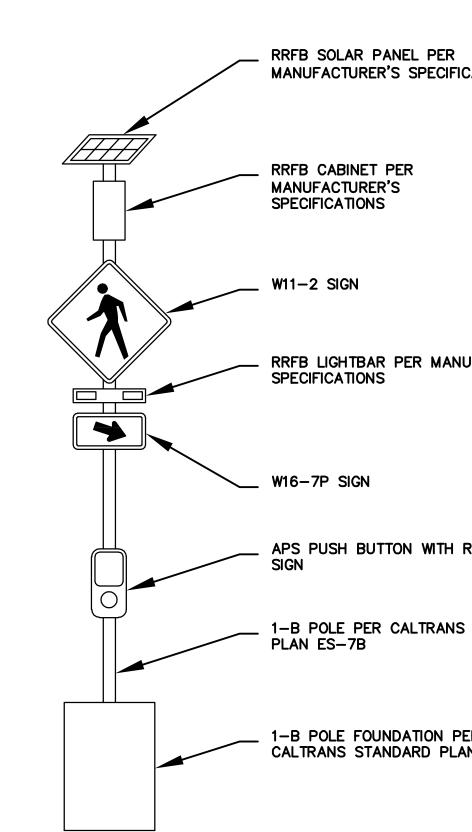


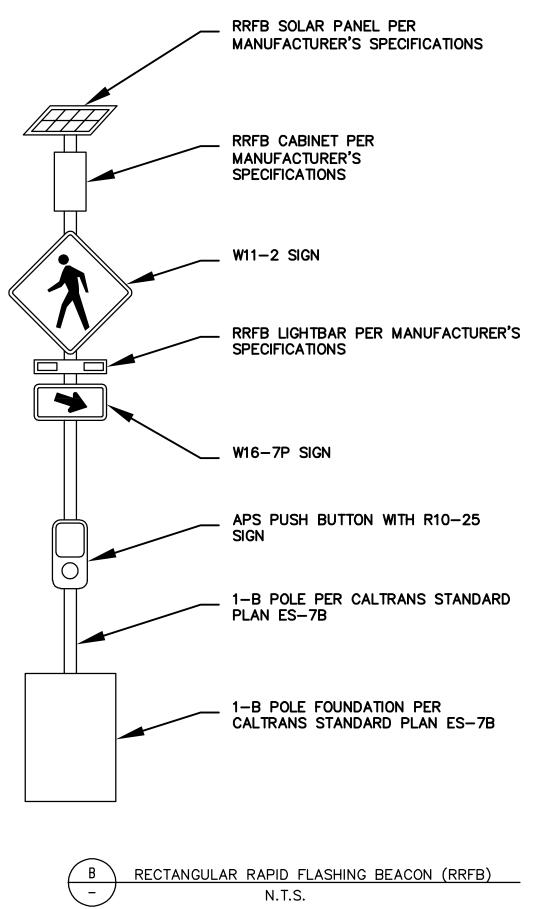
O BKF Engineers

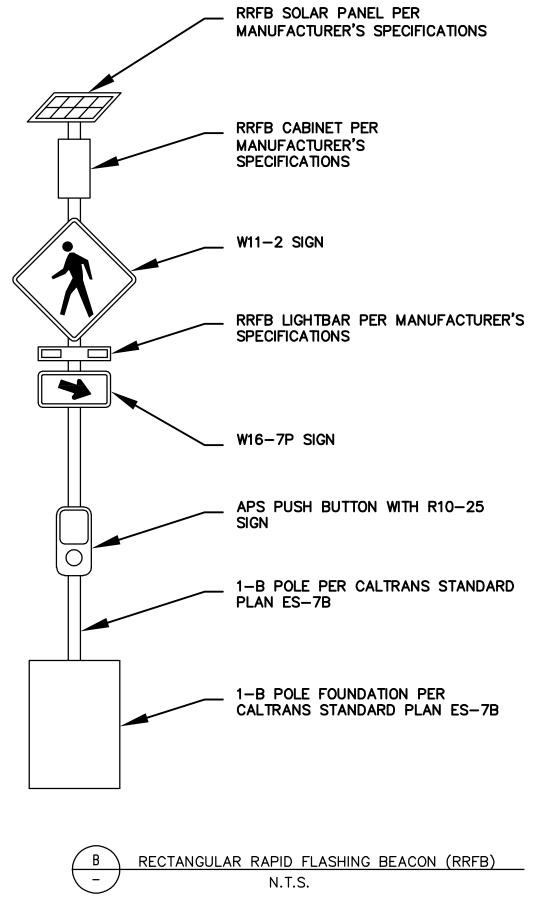
STRIPING

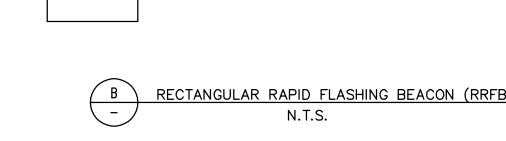
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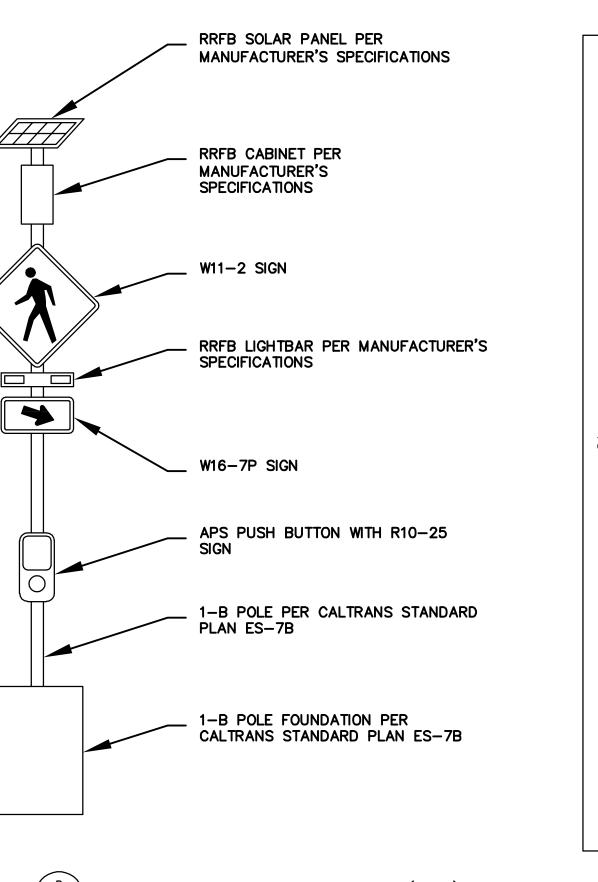
E \ CALTRANS - PAVEMENT MARKINGS & CROSSWALKS (A24F) N.T.S.

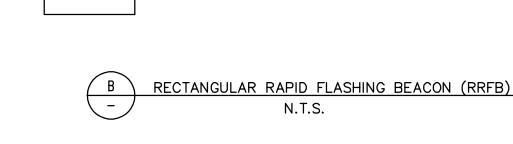


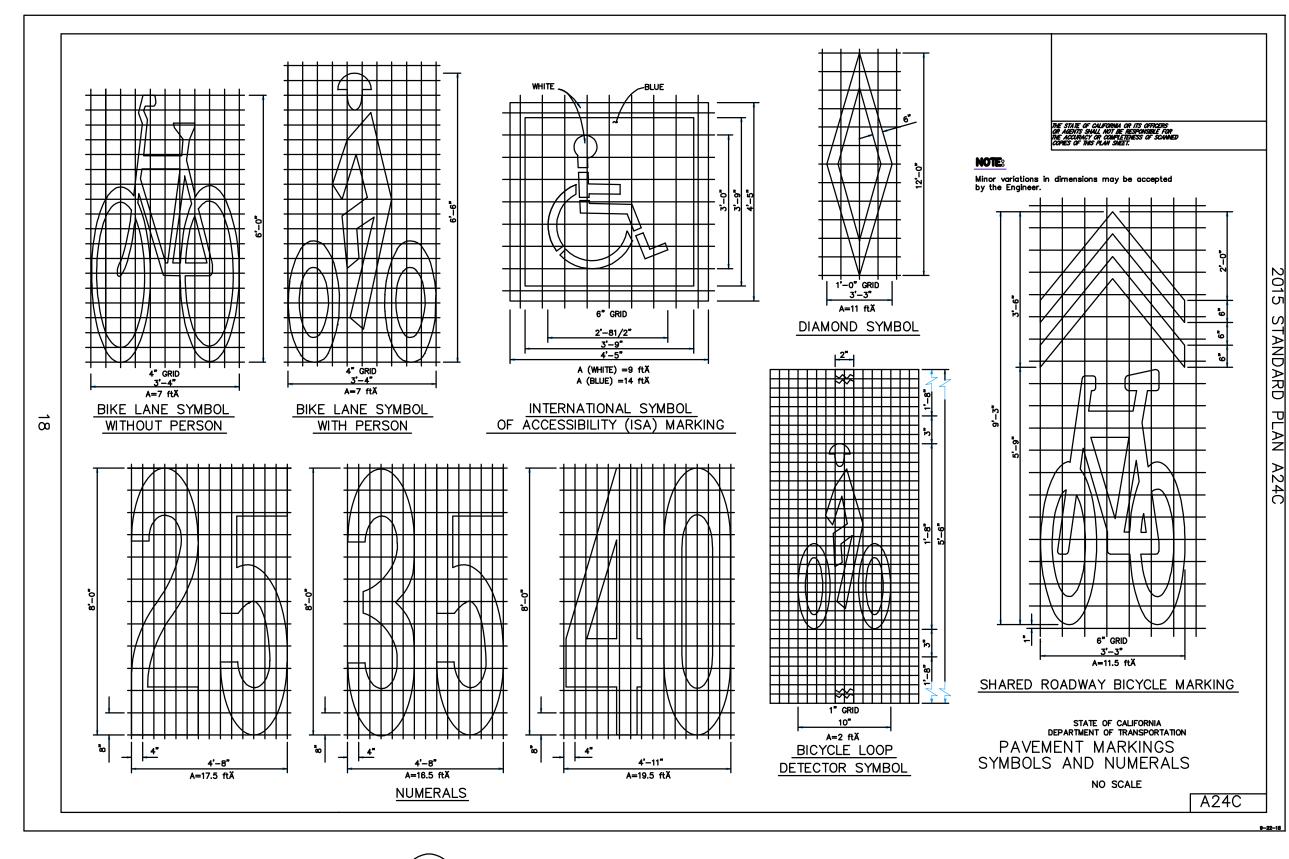


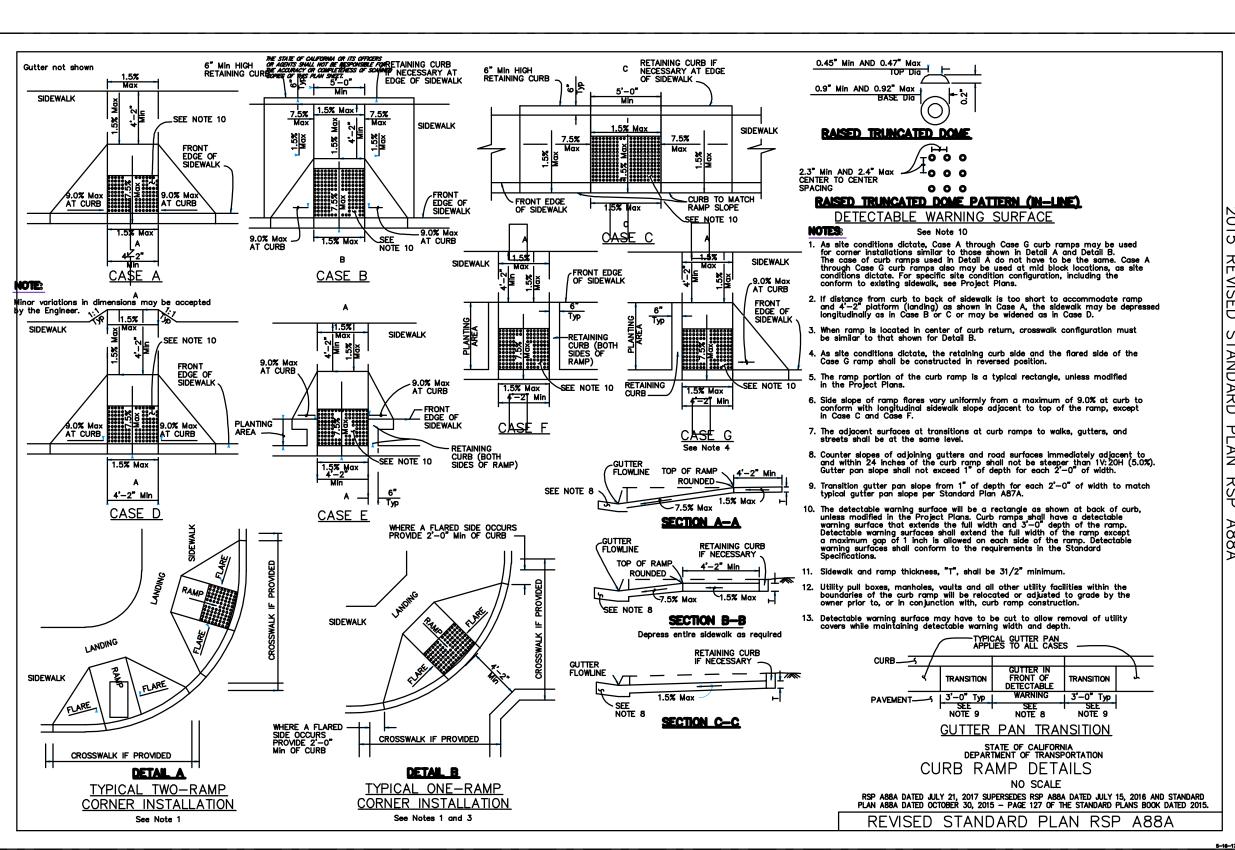












WEAKENED (W.P.) PLANE JOINTS

4.5' MIN. DEPRESSED DRIVEWAY ----

2 1/4" CLR. -

#4 REBAR @ 16" O.C. MAX. E. W. INCLUDING RAMPS

SECTION A-A N.T.S.

DRIVEWAY DETAIL

N.T.S.

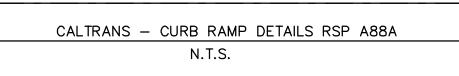
BACK OF RAMP (AS REQ'D)

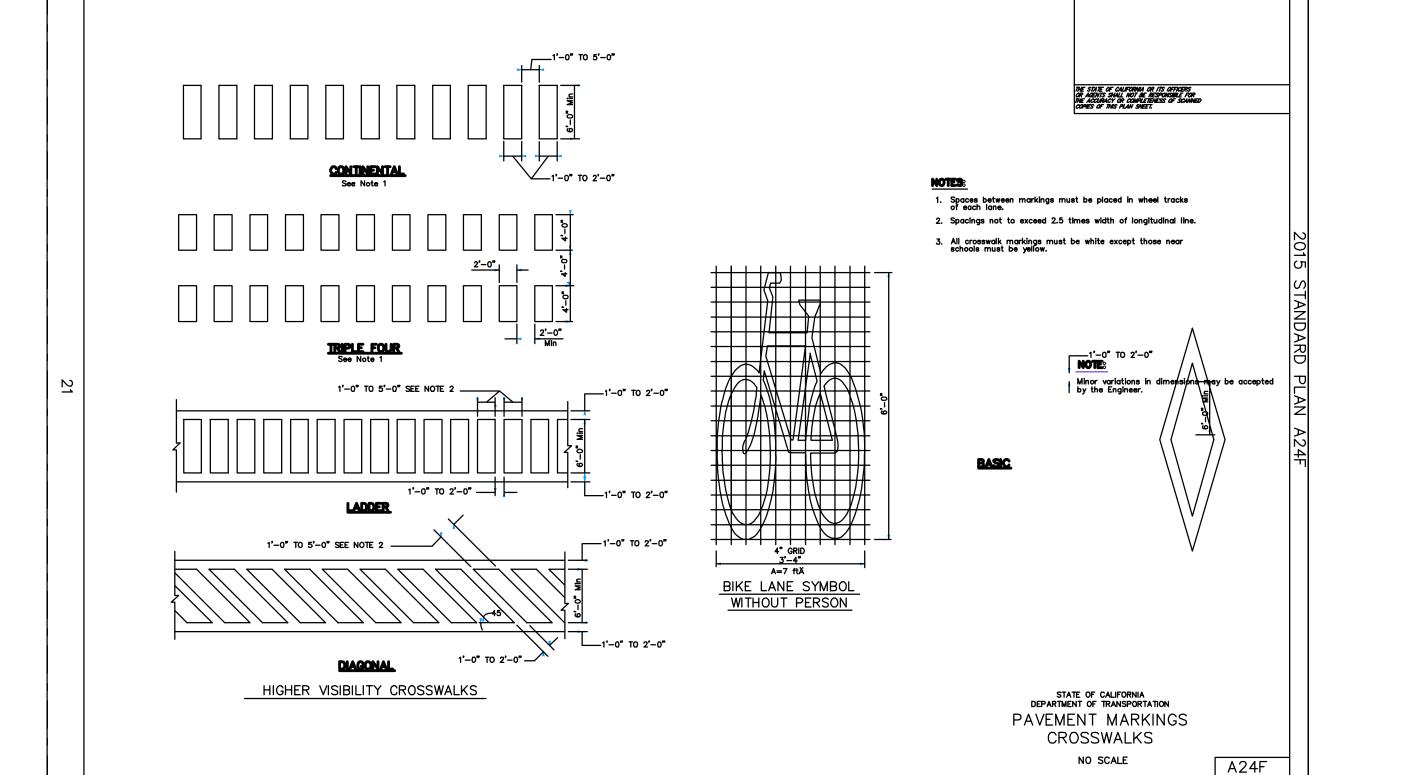
GROOVED BORDER

SEE CALTRANS STDS.

EACH END OF DRIVEWAY APPROACH -

3° CLR. -

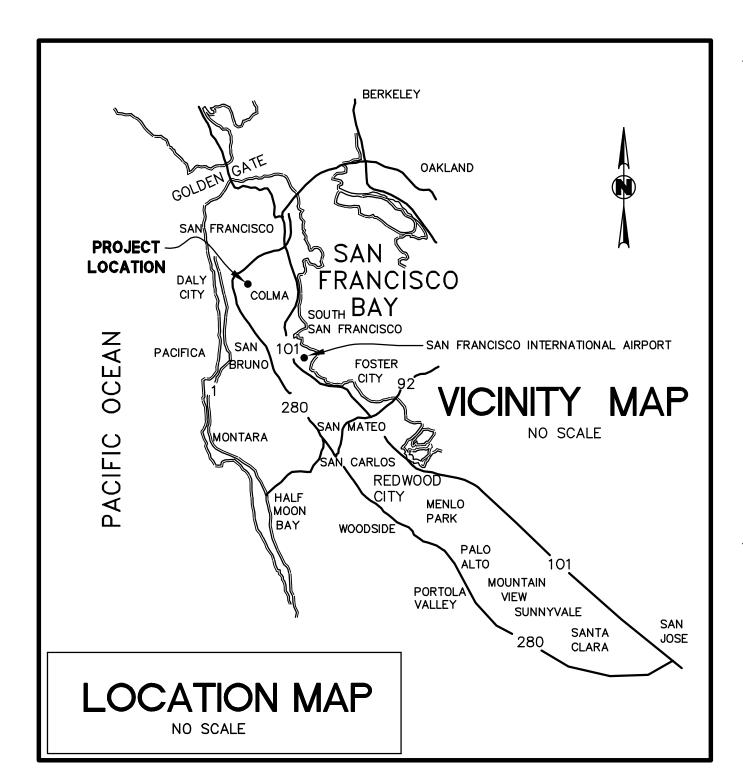




C CALTRANS - PAVEMENT MARKINGS SYMBOLS AND NUMERALS (A24C)

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© H =



PROJECT SUMMARY

TOWN OF COLMA 1198 EL CAMINO REAL COLMA, CA 94014

BKF ENGINEERS 255 SHORELINE DRIVE REDWOOD CITY, CA 94065

(650) 482-6300

SHEET INDEX:

TITLE SHEET TYPICAL SECTIONS

EL CAMINO REAL & MISSION ROAD

FENCE

TRAFFIC SIGNAL POLE

<u>LEGEND</u>	EXISTING	PROPOSED
RIGHT-OF-WAY	— — —	TROFOSED
CURB AND GUTTER		
CATCH BASIN UTILITY		
POLE/GUY-WIRE	← ←	
MANHOLE	\circ	
PARKING STALL CROSSI	LINE + ⊦	+ +
UTILITY BOX/VAULT	o 🗆 📋	
STREET LIGHT	• *	
BIKE LANE SYMBOL	3 ∞ ⇒	3 ∞ ⇒
SIGN WITH POST(S)		•

GENERAL NOTES

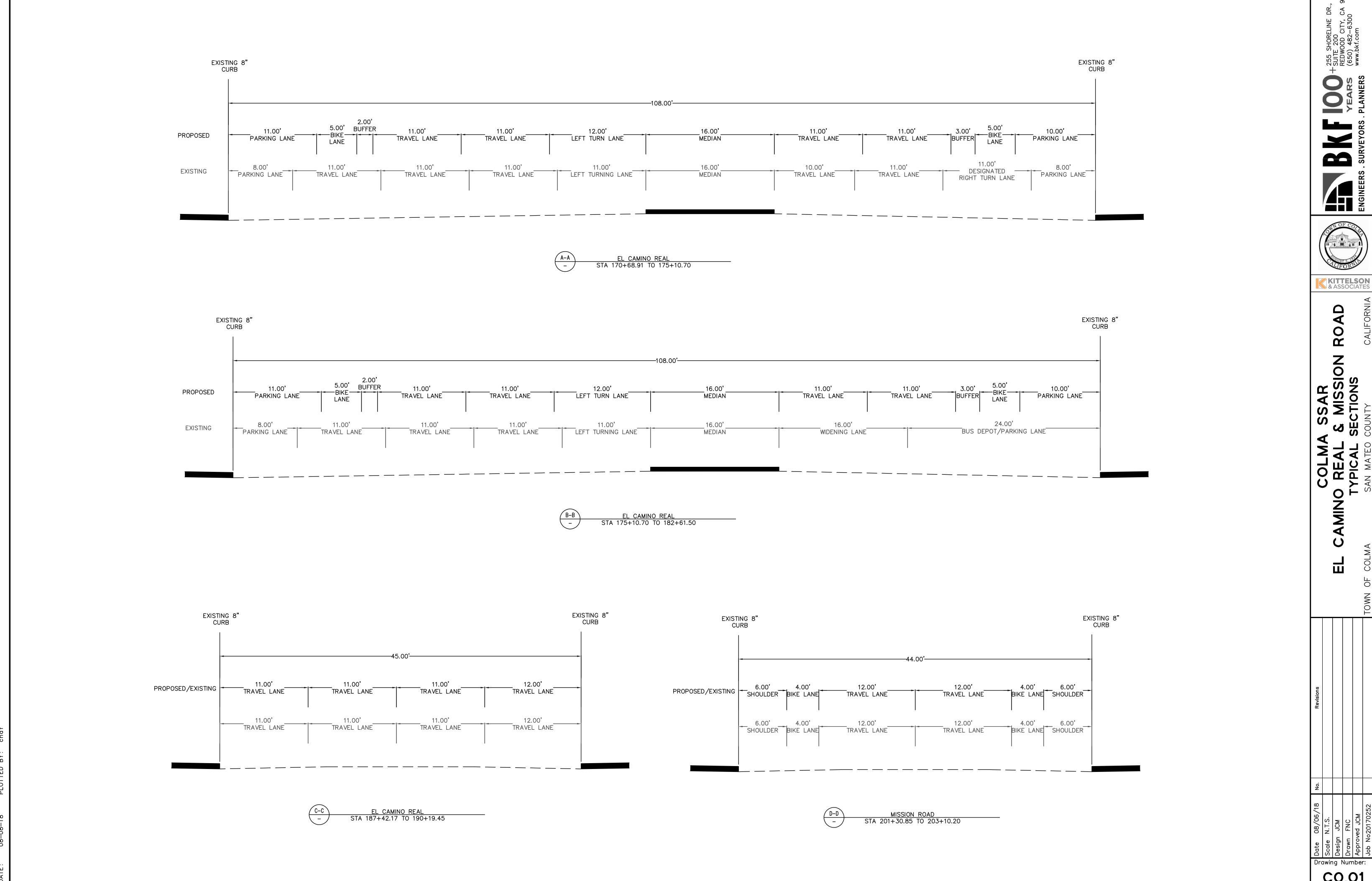
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ABBREVIATIONS

<u>- 133113113113</u>			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AB	AGGREGATE BASE	MSEP	MINOR SIDEWALK
AC	ASPHALT CONCRETE		ENCROACHMENT PERMIT
AD	AREA DRAIN	MVG	MODIFIED VALLEY GUTTER
ADD'L	ADDITIONAL	N	NORTHING
AGG	AGGREGATE	NG	NATURAL GROUND
APPROX	APPROXIMATE	NO., #	NUMBER
AVG	AVERAGE	NTS "	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR	(N)	NEW
ASTW	TESTING MATERIALS	P.A.E.	PUBLIC ACCESS EASEMENT
AWWA	AMERICAN WATER WORKS	O.C.	ON CENTER
,,,,,,,	ASSOCIATION	OH	OVERHEAD
BLDG	BUILDING	(P)	PROPOSED
BM	BENCH MARK	P	PAD
BOW	BOTTOM OF WALL	PCC	POINT OF COMPOUND CURVE
BPM	BLUE PAVEMENT MARKER	, 00	PORTLAND CEMENT CONCRETE
BW	BACK OF WALK	PE	PAD ELEVATION OR
CB	CATCH BASIN	· -	POLYETHYLENE
CF	CUBIC FEET	PG&E	PACIFIC GAS AND ELECTRIC
C&G	CURB & GUTTER	PI	POINT OF INTERSECTION
CL, Q	CENTERLINE	PL, PL	PROPERTY LINE
CO	CLEANOUT	PP P	POWER POLE
CONC	CONCRETE	PR	PROPOSED
CY	CUBIC YARD	PRC	POINT OF REVERSE CURVATUR
DIA	DIAMETER	PT	POINT
DR.	DRIVE	PUE	PUBLIC UTILITY EASEMENT
DW	DOMESTIC WATER	R	RADIUS
D/W	DRIVEWAY	RD	ROAD
(É)	EXISTING	RCP	REINFORCED CONCRETE PIPE
(E) E	ELECTRICAL, or EASTING	RIM	RIM ELEVATION
ĒA	EACH	RPA	REDUCED PRESSURE ASSEMBL
EC	END OF CURB	RRFB	RECTANGULAR RAPID FLASHIN
EG	EXISTING GRADE		BEACON
EL	ELEVATION	Rt, RT	RIGHT
EP	EDGE OF PAVEMENT	R/W	RIGHT OF WAY
ESMT	EASEMENT	S	SLOPE
F/C	FACE OF CURB	SDAD	STORM DRAIN AREA DRAIN
FG	FINISH GRADE	SDCB	STORM DRAIN CATCH BASIN
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FL	FLOW LINE	SF	SQUARE FEET
FP	FINISHED PAVEMENT	SHT	SHEET
FT	FEET	SNS	STREET NAME SIGN
G	GAS	STA	STATION
GB	GRADE BREAK	STD	STANDARD
GE	GRATE ELEVATION	S/W, SW	SIDEWALK
GND	GROUND	T	TELEPHONE
GR	GRADE	T&B	TOP AND BOTTOM
GV	GATE VALVE	TC	TOP OF CURB
JB	JOINT BOX	TEMP	TEMPORARY
JP	JOINT POLE	TP	TOP OF PAVEMENT
JT	JOINT TRENCH	TW	TOP OF WALL
L	LENGTH	TYP.	TYPICAL
LF	LINEAR FEET	UG	UNDER GROUND
LP	LOW POINT	VCP	VITRIFIED CLAY PIPE
Lt, LT	LEFT	VERT	VERTICAL
MAX	MAXIMUM	W/	WITH
MH	MANHOLE	W/O	WITHOUT
MIN	MINIMUM	W	WATER
MIS	MISCELLANEOUS	WH	WALL HEIGHT





の BKF Engineers

iblish_3852\2_ElCami PLOTTED BY: chaf

DRAWING NAME: PLOT DATE:

KITTELSON & ASSOCIATES AR AISSION STRIPING AMINO PLAN,

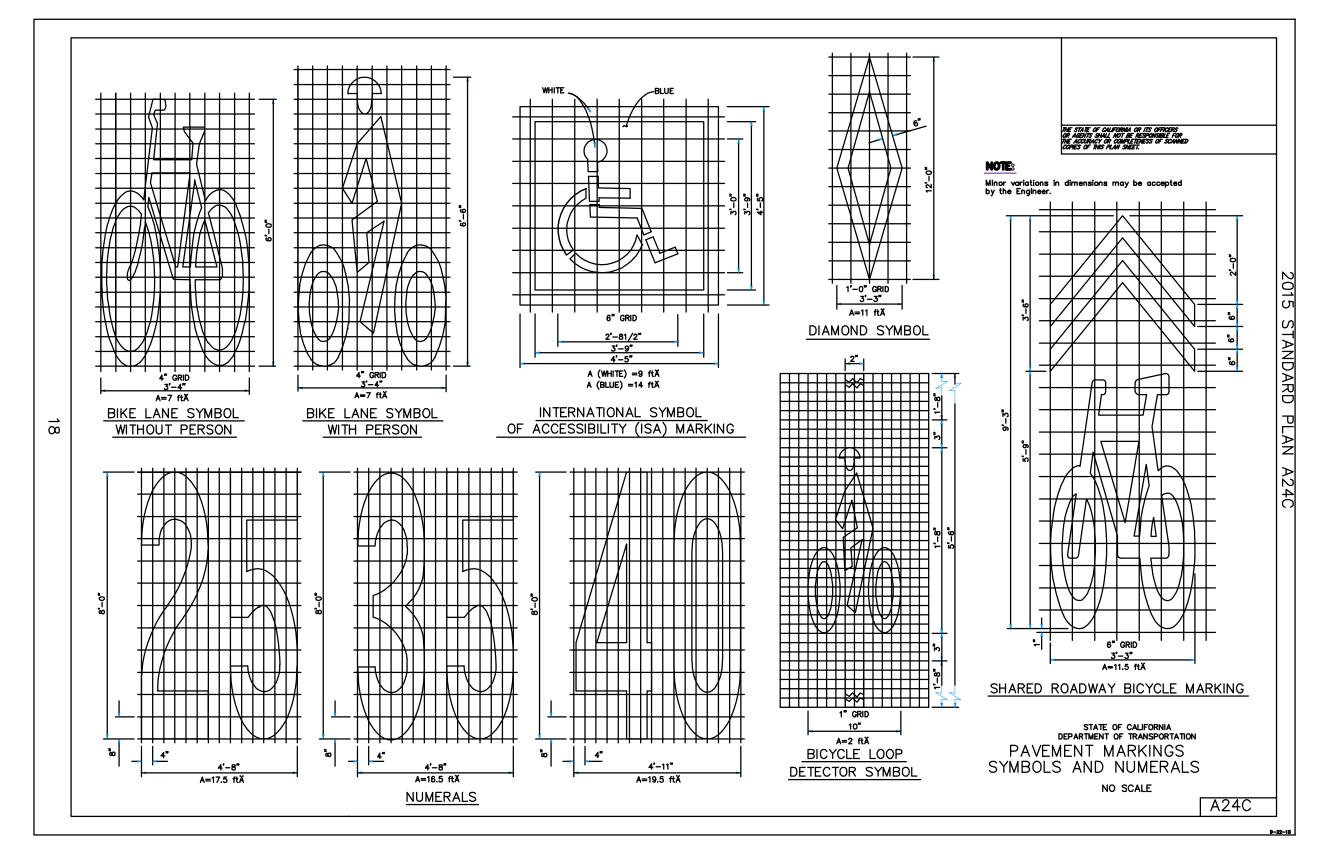
ISSION TRIPING

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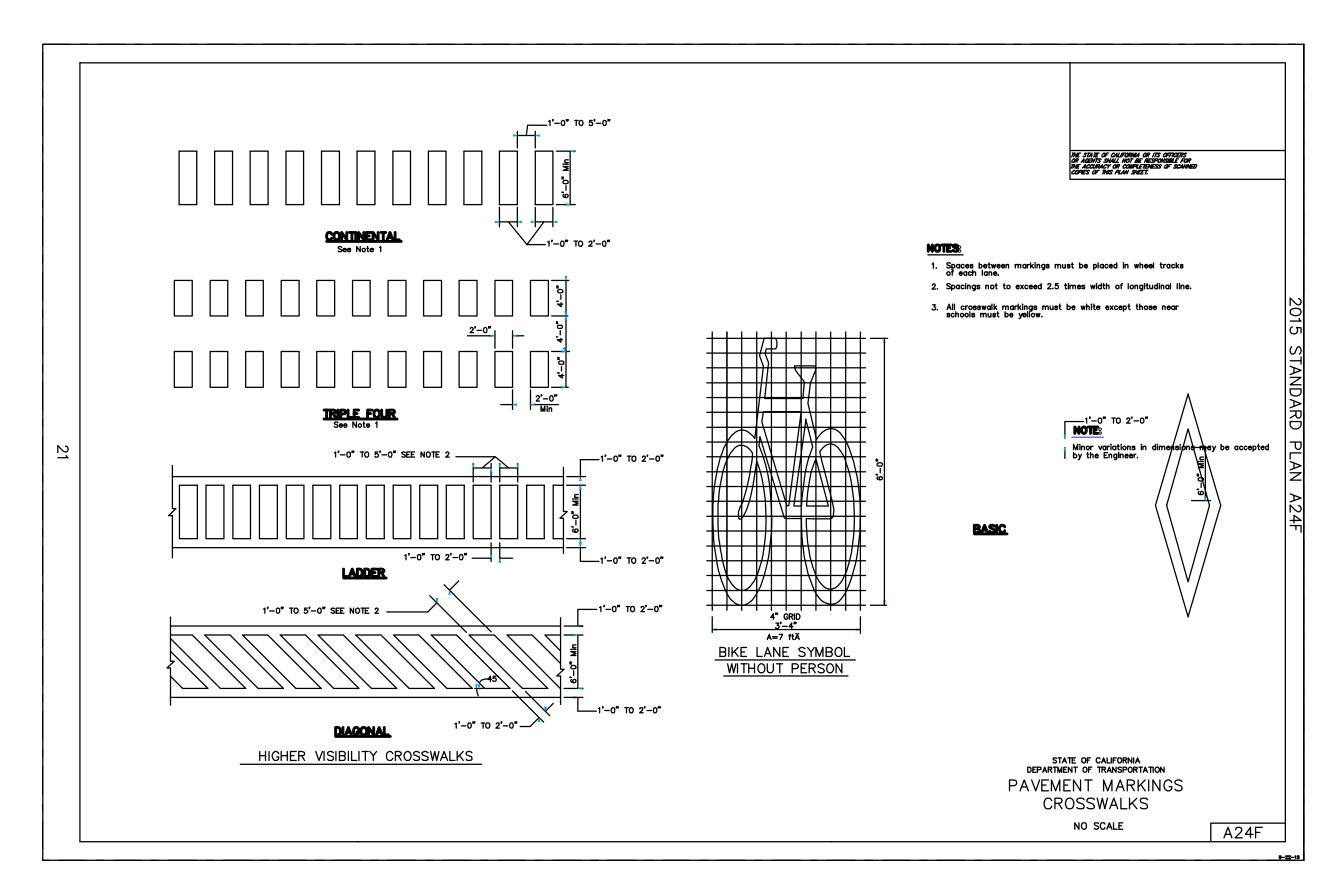
0.45" Min AND 0.47" Max Gutter not shown SIDEWALK RAISED TRUNCATED DOME 2.3" Min AND 2.4" Max CENTER TO CENTER SPACING FRONT EDGE OF SIDEWALK RAISED TRUNCATED DOME PATTERN (IN-LINE) DETECTABLE WARNING SURFACE SEE NOTE 10 See Note 10 SIDEWALK If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-2" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B or C or may be widened as in Case D. Winor variations in dimensions may be accepted by the Engineer. SIDEWALK 5. When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B. SIDEWALK The ramp portion of the curb ramp is a typical rectangle, unless modified in the Project Plans. Side slope of ramp flares vary uniformly from a maximum of 9.0% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F. CASE G See Note 4 GUTTER
FLOWLINE TOP OF RAMP
ROUNDED
7.5% Max
1.5% Max
F 1.5% Max 4'-2" Min CASE E CASE D SECTION A-A WHERE A FLARED SIDE OCCURS PROVIDE 2'-0" Min OF CURB -RETAINING CURB TOP OF RAMP 4'-2" Min SEE NOTE 8 Depress entire sidewalk as required CURB TRANSITION GUTTER IN FRONT OF DETECTABLE TRANSITION DETECTABL SECTION C-C **GUTTER PAN TRANSITION** CROSSWALK IF PROVIDED STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CALTRANS - CURB RAMP DETAILS RSP A88A

N.T.S.



/ B \setminus CALTRANS - PAVEMENT MARKINGS SYMBOLS AND NUMERALS (A24C)



CURB RAMP DETAILS

NO SCALE

RSP A88A DATED JULY 21, 2017 SUPERSEDES RSP A88A DATED JULY 15, 2016 AND STANDARD PLAN A88A DATED OCTOBER 30, 2015 — PAGE 127 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP A88A

C CALTRANS - PAVEMENT MARKINGS & CROSSWALKS (A24F) N.T.S.

CROSSWALK IF PROVIDED

DETAIL A

TYPICAL TWO-RAMP CORNER INSTALLATION

DETAIL B

TYPICAL ONE-RAMP

CORNER INSTALLATION

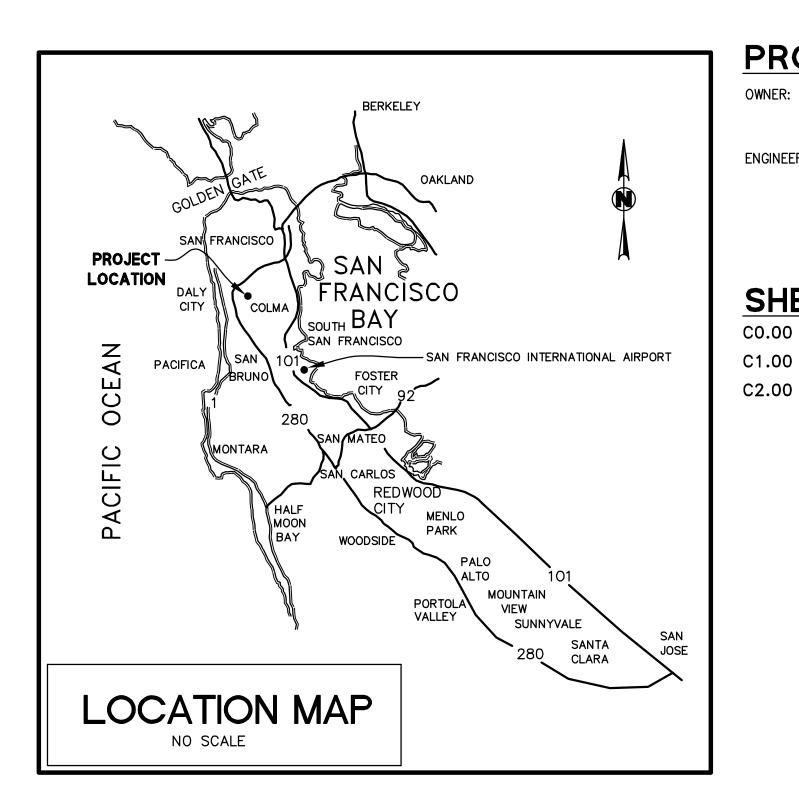
See Notes 1 and 3

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S

SERRAMONTE BLVD + JUNIPERO SERRA BLVD SYSTEMIC SAFETY ANALYSIS REPORT (SSAR)

IN TOWN OF COLMA, SAN MATEO COUNTY, CALIFORNIA



PROJECT SUMMARY

TOWN OF COLMA 1198 EL CAMINO REAL COLMA, CA 94014

BKF ENGINEERS 255 SHORELINE DRIVE

REDWOOD CITY, CA 94065 (650) 482-6300

SHEET INDEX:

TITLE SHEET

PLAN, SIGNING & STRIPING **DETAILS**

GENERAL NOTES

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- 2. WORK SHALL BE PREFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, TOWN OF COLMA STANDARDS, CALTRANS STANDARD PLANS AND THESE
- 4. STANDARD CONSTRUCTION ACTIVITIES SHALL BE LIMITED HOURS REGULATED BY THE CITY. CONTRACTOR SHALL CONFIRM WITH CITY. NO CONSTRUCTION
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL PREPARE A TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL FROM THE CITY BEFORE COMMENCING WORK. THE CONTRACTOR SHALL ALSO PROVIDE FLAGMEN, CONES OR BARRICADES, AS NECESSARY TO CONTROL TRAFFIC AND PREVENT HAZARDOUS CONDITIONS. THE CONTRACTOR SHALL LEAVE A 24-HOUR EMERGENCY TELEPHONE NUMBER WITH POLICE. FIRE AND PUBLIC WORKS DEPARTMENTS, AND KEEP THEM INFORMED DAILY OF DETOURS.
- 6. EXISTING PUBLIC PEDESTRIAN WALKWAYS, BIKEPATHS & HANDICAP ACCESS PATHWAYS SHALL BE MAINTAINED DURING CONSTRUCTION TO THE SATISFACTION
- 7. SHOULD IT APPEAR THAT THE WORK OUTLINED ON THESE PLANS IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE CIVIL DESIGN ENGINEER, BKF ENGINEERS AT (650) 482-6300, BEFORE PROCEEDING WITH THE WORK IN QUESTION AND
- 8. AN ENCROACHMENT PERMIT IS REQUIRED FOR WORK WITHIN THE PUBLIC RIGHT—OF—WAY OR EASEMENT AND MUST BE OBTAINED PRIOR TO THE START OF
- SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT
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ARREVIATIONS

<u>ABB</u>	<u>REVIATIONS</u>
SYMBOL	DESCRIPTION
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
AD	AREA DRAIN
ADD'L	ADDITIONAL
AGG	AGGREGATE
APPROX	APPROXIMATE
AVG ASTM	AVERAGE AMERICAN SOCIETY FOR
ASTM	TESTING MATERIALS
AWWA	AMERICAN WATER WORKS
	ASSOCIATION
BLDG	BUILDING
BM	BENCH MARK
BOW	BOTTOM OF WALL
BPM	BLUE PAVEMENT MARKER BACK OF WALK
BW CB	CATCH BASIN
CF	CUBIC FEET
C&G	CURB & GUTTER
CL, Q	CENTERLINE
co _	CLEANOUT
CONC	CONCRETE
CY	CUBIC YARD
DIA DR.	DIAMETER DRIVE
DK. DW	DOMESTIC WATER
D/W	DRIVEWAY
(E)	EXISTING
E	ELECTRICAL, or EASTING
EA	EACH
EC	END OF CURB
EG	EXISTING GRADE
EL	ELEVATION EDGE OF PAVEMENT
EP ESMT	EASEMENT
F/C	FACE OF CURB
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FP	FINISHED PAVEMENT
FT G	FEET GAS
G GB	GRADE BREAK
GE	GRATE ELEVATION
GND	GROUND
GR	GRADE
GV	GATE VALVE
JB	JOINT BOX
JP JT	JOINT POLE JOINT TRENCH
L	LENGTH
ĹF	LINEAR FEET
LP	LOW POINT
Lt, LT	LEFT
MAX	MAXIMUM
MH MIN	MANHOLE MINIMUM
MIS	MINIMUM MISCELLANEOUS
IVIIJ	WIIOCELEAINEOUG

., # S	NOT TO SCALE
)	NEW
Á.E.	PUBLIC ACCESS EASEMENT
C.	ON CENTER
	OVERHEAD
)	PROPOSED
	PAD
С	POINT OF COMPOUND CURVE or
	PORTLAND CEMENT CONCRETE
	PAD ELEVATION OR
0. [POLYETHYLENE
&E	PACIFIC GAS AND ELECTRIC POINT OF INTERSECTION
. P2	PROPERTY LINE
, 'L	POWER POLE
	PROPOSED
С	POINT OF REVERSE CURVATURE
	POINT
Ε	PUBLIC UTILITY EASEMENT
	RADIUS
	ROAD
P	REINFORCED CONCRETE PIPE
1	RIM ELEVATION
A	REDUCED PRESSURE ASSEMBLY RECTANGULAR RAPID FLASHING
FB	BEACON
RT	RIGHT
w	RIGHT OF WAY
VV	SLOPE
AD	STORM DRAIN AREA DRAIN
CB	STORM DRAIN CATCH BASIN
JB	STORM DRAIN JUNCTION BOX
	SQUARE FEET
T	SHEET
S	STREET NAME SIGN
A	STATION
D W GW	STANDARD
W, SW	SIDEWALK TELEPHONE
В	TOP AND BOTTOM
.D	TOP OF CURB
MP	TEMPORARY
	TOP OF PAVEMENT
,	TOP OF WALL
P.	TYPICAL
_	UNDER GROUND
P DT	VITRIFIED CLAY PIPE
RT '	VERTICAL
' 0	WITH
O	WITHOUT
l	WATER WALL HEIGHT
	WALL REIGHT

DESCRIPTION

NORTHING

MINOR SIDEWALK

NATURAL GROUND

ENCROACHMENT PERMIT

MODIFIED VALLEY GUTTER

JUNIPERO SERRA BLVD	LF LP Lt, LT MAX MH MIN MIS
	LE RIGH
	CUR CAT POL MAN
	PAR UTIL STR BIKE
VICINITY MAP	SIGN FEN TRA
VICINITY MAP No scale	

<u>LEGEND</u>	EXISTING	PROPOSED
RIGHT-OF-WAY		
CURB AND GUTTER	======	
CATCH BASIN UTILITY		
POLE/GUY-WIRE	← ←	
MANHOLE	\circ	
PARKING STALL CROSSL	INE + +	+ +
UTILITY BOX/VAULT	o 🗆 📋	
STREET LIGHT	•	
BIKE LANE SYMBOL	3 ≥ ⇒	> ⇒
SIGN WITH POST(S)		-
FENCE	xx	
TRAFFIC SIGNAL POLE	+	+

K:\2017\170252_SSAR_Town 08-06-18 PLOTTED BY:

B CALTRANS - PAVEMENT MARKINGS SYMBOLS AND NUMERALS (A24C) N.T.S.

A (WHITE) =9 ftX

A (BLUE) =14 ftX

INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING

1'-0" GRID 3'-3" A=11 ftX

DIAMOND SYMBOL

1" GRID
10"
A=2 ftX
PICYCLE LOOP

A=2 ftĂ

BICYCLE LOOP

DETECTOR SYMBOL

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

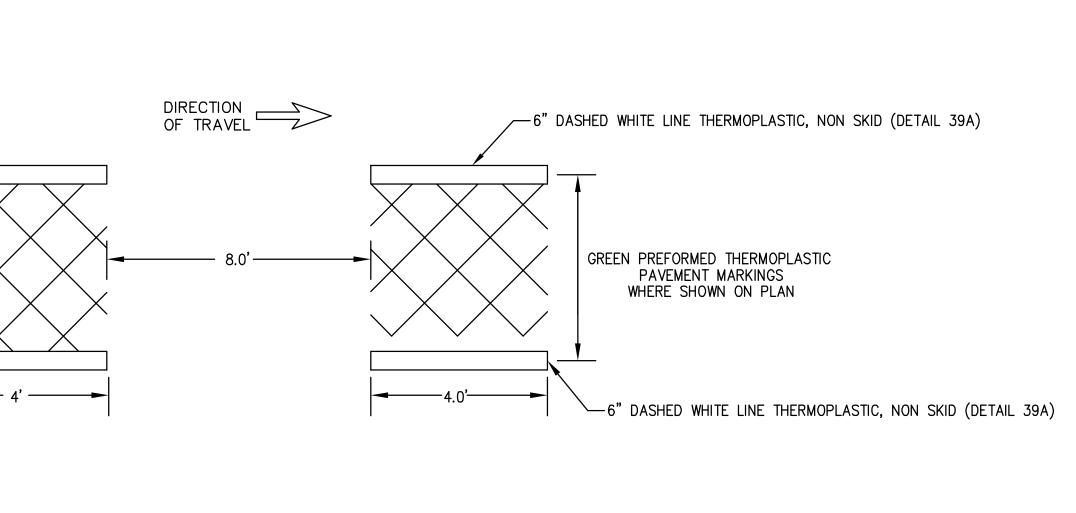
SHARED ROADWAY BICYCLE MARKING

NO SCALE

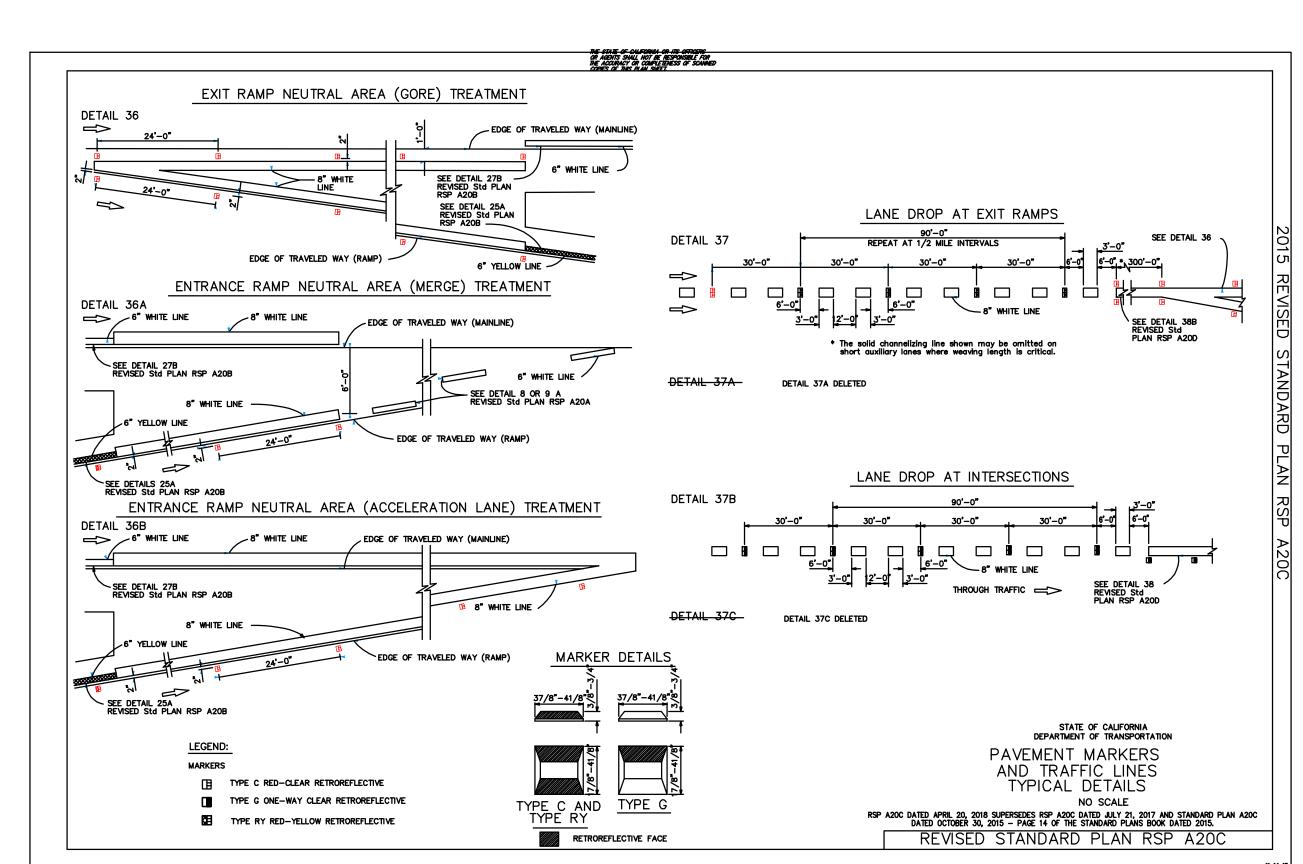
A24C

PAVEMENT MARKINGS

SYMBOLS AND NUMERALS







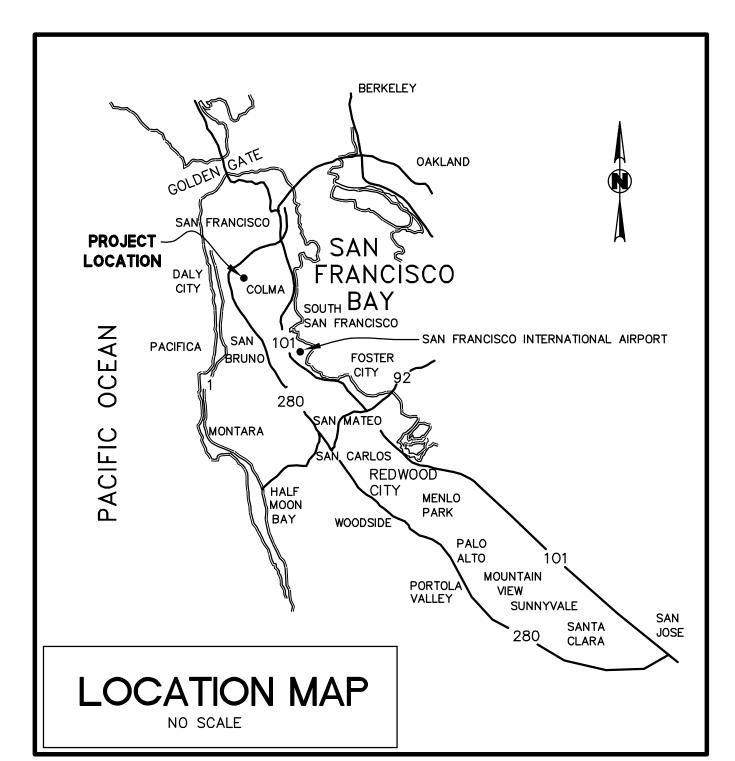
4" GRID 3'-4" A=7 ftX BIKE LANE SYMBOL

BIKE LANE SYMBOL WITHOUT PERSON

BIKE LANE SYMBOL WITH PERSON

<u>NUMERALS</u>

C \ CALTRANS - PAVEMENT MARKINGS AND TRAFFIC LINES TYPICAL DETAILS (A20C) N.T.S.



PROJECT SUMMARY

TOWN OF COLMA 1198 EL CAMINO REAL COLMA, CA 94014

BKF ENGINEERS 255 SHORELINE DRIVE REDWOOD CITY, CA 94065

(650) 482-6300

SHEET INDEX:

TITLE SHEET

PLAN, SIGNING & STRIPING

DETAILS

SIGN WITH POST(S)

TRAFFIC SIGNAL POLE

FENCE

LEGEND RIGHT-OF-WAY	EXISTING	PROPOSED
CURB AND GUTTER		
CATCH BASIN UTILITY		
POLE/GUY-WIRE	← ←	
MANHOLE	\circ	
PARKING STALL CROSSLINE	+ +	+ +
UTILITY BOX/VAULT	o 🗆 📋	
STREET LIGHT	• *	
BIKE LANE SYMBOL	3 e ⇒	} •• ⇒

GENERAL NOTES

- 1. THE PROPOSED IMPROVEMENTS SHOWN ON THESE DRAWINGS ARE SUPERIMPOSED ON A BASE SHEET. THE BASE DOES
- 2. WORK SHALL BE PREFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, TOWN OF COLMA STANDARDS

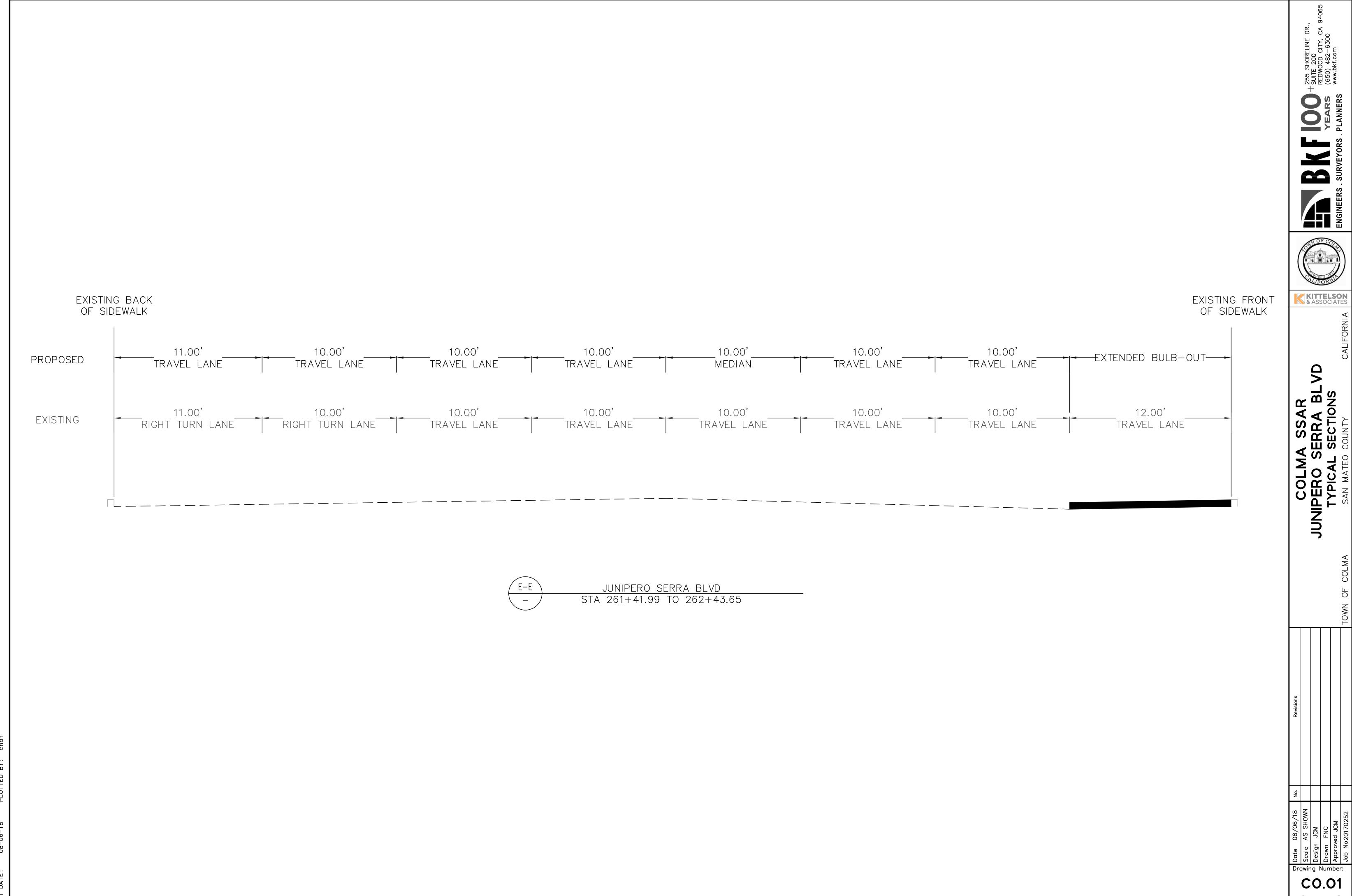
- 7. SHOULD IT APPEAR THAT THE WORK OUTLINED ON THESE PLANS IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN
- CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL
- 10. CONTRACTOR SHALL COMPLY WITH STATE, COUNTY AND CITY LAWS AND ORDINANCES; AND REGULATIONS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS, OSHA AND INDUSTRIAL ACCIDENT COMMISSION RELATING TO SAFETY AND CHARACTER OF WORK, EQUIPMENT AND LABOR PERSONNEL.
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ABBREVIATIONS

<u> </u>			
SYMBOL	<u>DESCRIPTION</u>	SYMBOL	DESCRIPTION
AB	AGGREGATE BASE	MSEP	MINOR SIDEWALK
AC	ASPHALT CONCRETE		ENCROACHMENT PERMIT
AD	AREA DRAIN	MVG	MODIFIED VALLEY GUTTER
ADD'L	ADDITIONAL	N	NORTHING
AGG	AGGREGATE	NG	NATURAL GROUND
APPROX	APPROXIMATE	NO., #	NUMBER
AVG	AVERAGE	NTS "	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR	(N)	NEW
A2 IIVI	TESTING MATERIALS	P.A.E.	PUBLIC ACCESS EASEMENT
AWWA	AMERICAN WATER WORKS	0.C.	ON CENTER
AWWA	ASSOCIATION	O.C. OH	ON CENTER OVERHEAD
DLDC	BUILDING		
BLDG	BENCH MARK	(P)	PROPOSED
BM	BOTTOM OF WALL	P	PAD
BOW	BLUE PAVEMENT MARKER	PCC	POINT OF COMPOUND CURVE
BPM	BACK OF WALK	DE	PORTLAND CEMENT CONCRETE
BW		PE	PAD ELEVATION OR
CB	CATCH BASIN	D045	POLYETHYLENE
CF	CUBIC FEET	PG&E	PACIFIC GAS AND ELECTRIC
C&G	CURB & GUTTER	PI _	POINT OF INTERSECTION
CL, Q	CENTERLINE	PL, f	PROPERTY LINE
CO	CLEANOUT	PP	POWER POLE
CONC	CONCRETE	PR	PROPOSED
CY	CUBIC YARD	PRC	POINT OF REVERSE CURVATU
DIA	DIAMETER	PT	POINT
DR.	DRIVE	PUE	PUBLIC UTILITY EASEMENT
DW	DOMESTIC WATER	R	RADIUS
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È	ELECTRICAL, or EASTING	RIM	RIM ELEVATION
EA	EACH	RPA	REDUCED PRESSURE ASSEMBL
EC	END OF CURB	RRFB	RECTANGULAR RAPID FLASHIN
EG	EXISTING GRADE		BEACON
EL	ELEVATION	Rt, RT	RIGHT
EP	EDGE OF PAVEMENT	R/W	RIGHT OF WAY
ESMT	EASEMENT	s [']	SLOPE
F/C	FACE OF CURB	SDAD	STORM DRAIN AREA DRAIN
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FH	FIRE HYDRANT	SDJB	STORM DRAIN JUNCTION BOX
FL	FLOW LINE	SF	SQUARE FEET
FP	FINISHED PAVEMENT	SHT	SHEET
FT	FEET	SNS	STREET NAME SIGN
G	GAS	STA	STATION
GB	GRADE BREAK	STD	STANDARD
GE	GRATE ELEVATION	S/W, SW	SIDEWALK
GND	GROUND	T T	TELEPHONE
GR	GRADE	T&B	TOP AND BOTTOM
GV	GATE VALVE	TC	TOP OF CURB
JB	JOINT BOX	TEMP	TEMPORARY
JP	JOINT POLE	TP	TOP OF PAVEMENT
JT	JOINT TRENCH	TW	TOP OF WALL
L	LENGTH	TYP.	TYPICAL
ĹF	LINEAR FEET	UG	UNDER GROUND
LP	LOW POINT	VCP	VITRIFIED CLAY PIPE
Lt, LT	LEFT	VERT	VERTICAL
MAX	MAXIMUM		
MH	MANHOLE	W/	WITH
MIN	MINIMUM	W/O	WITHOUT
MIS	MISCELLANEOUS	W	WATER
IVIIO	MIDOLLLANLOUS	WH	WALL HEIGHT







の BKF Engineers

ENGINEERS SURVEYORS P

ENGINEEDS SIIDVEYOPS BIANNEDS W

KITTELSO & ASSOCIATE

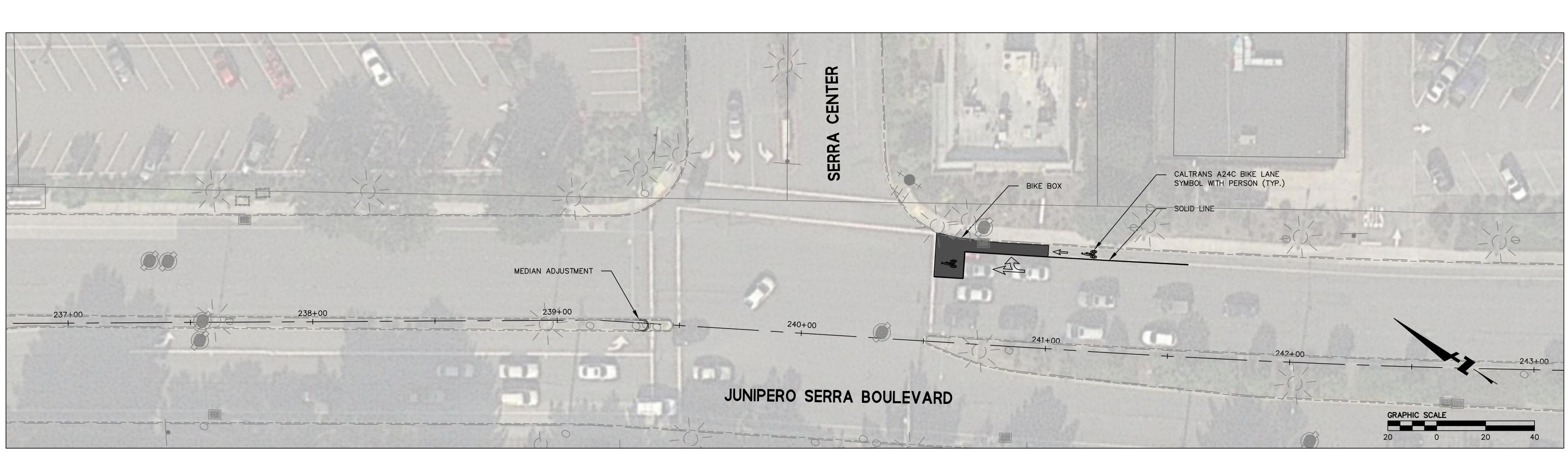
> SSAR RRA BLVD & STRIPING

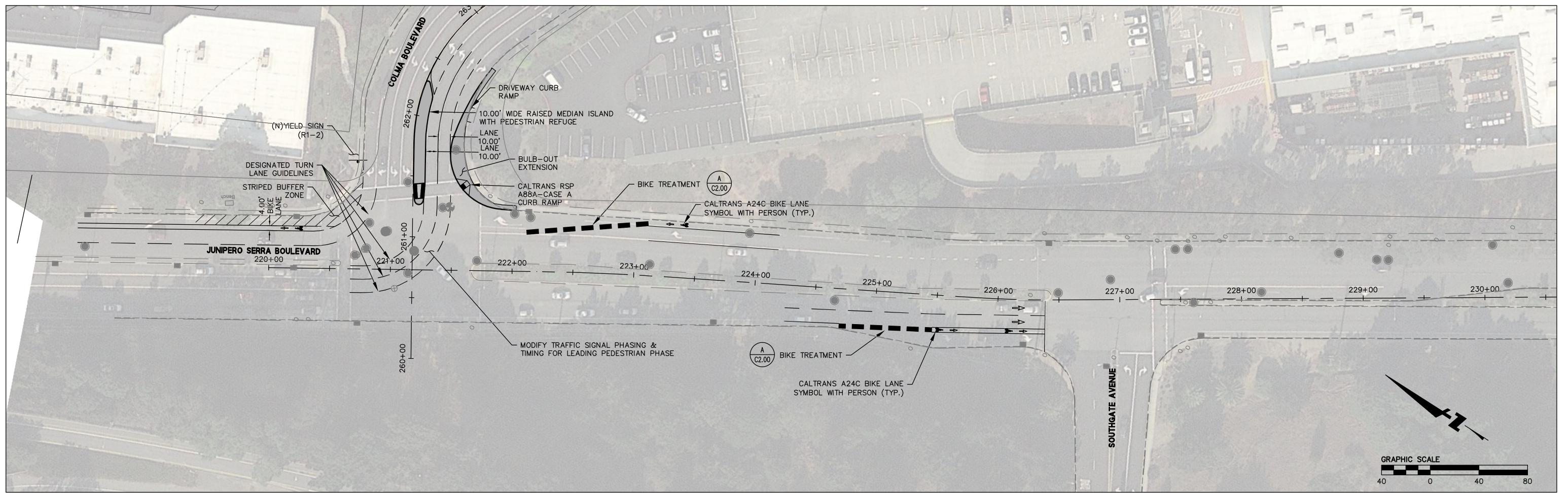
COLMA SSAR JUNIPERO SERRA B PLAN, SIGNING & STRIF

TOWN OF COLMA

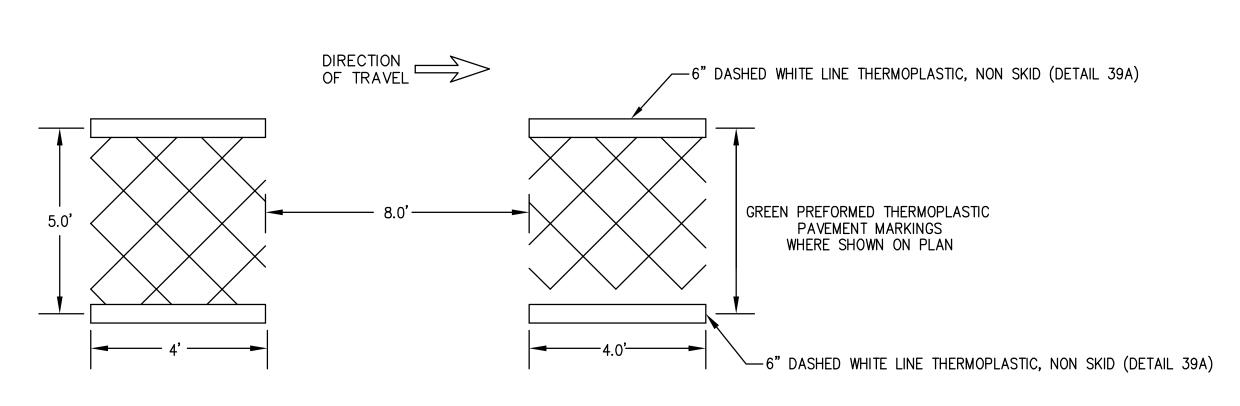
Design JCM
Drawn FNC
Approved JCM
Job No20170252

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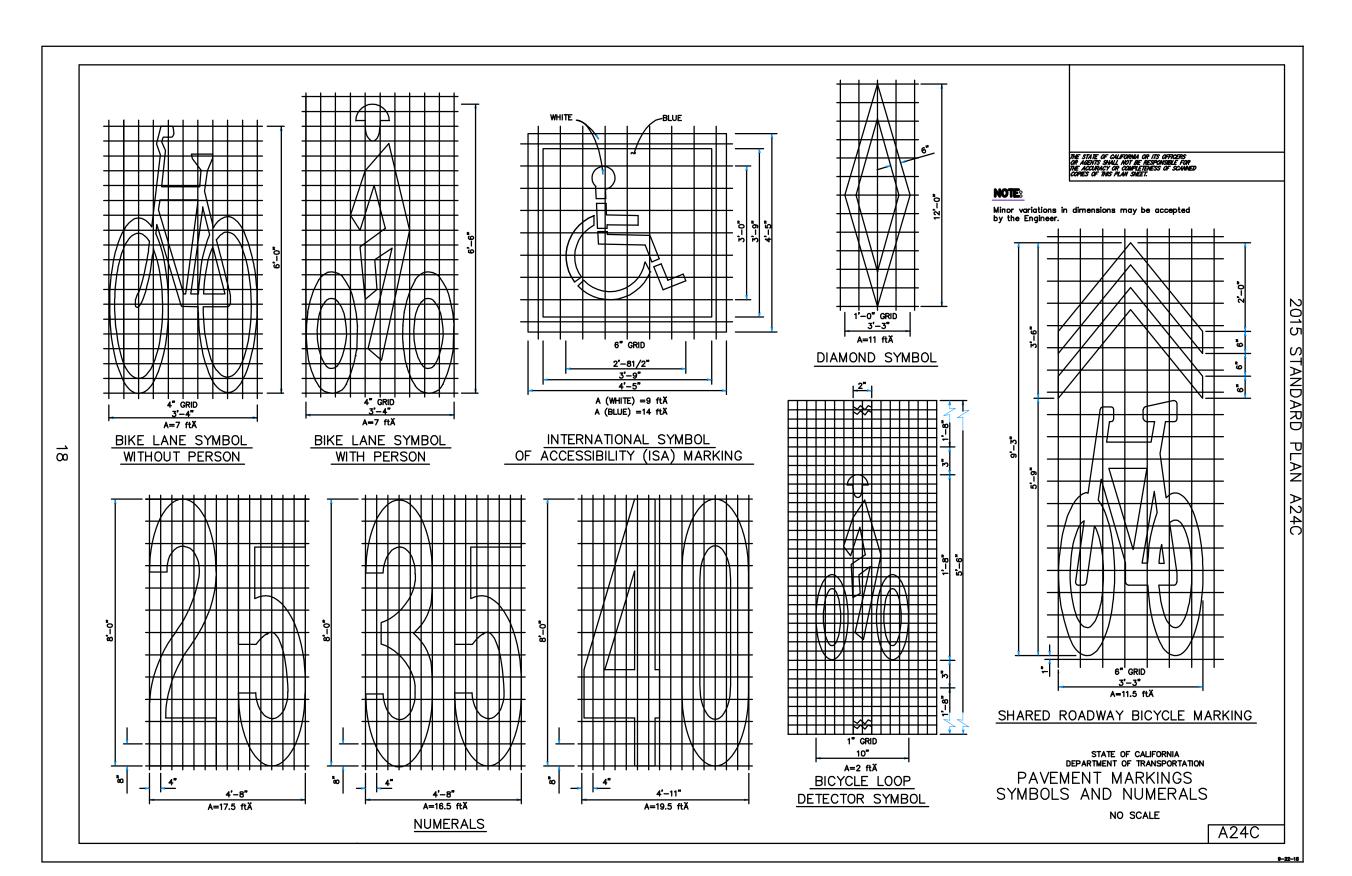




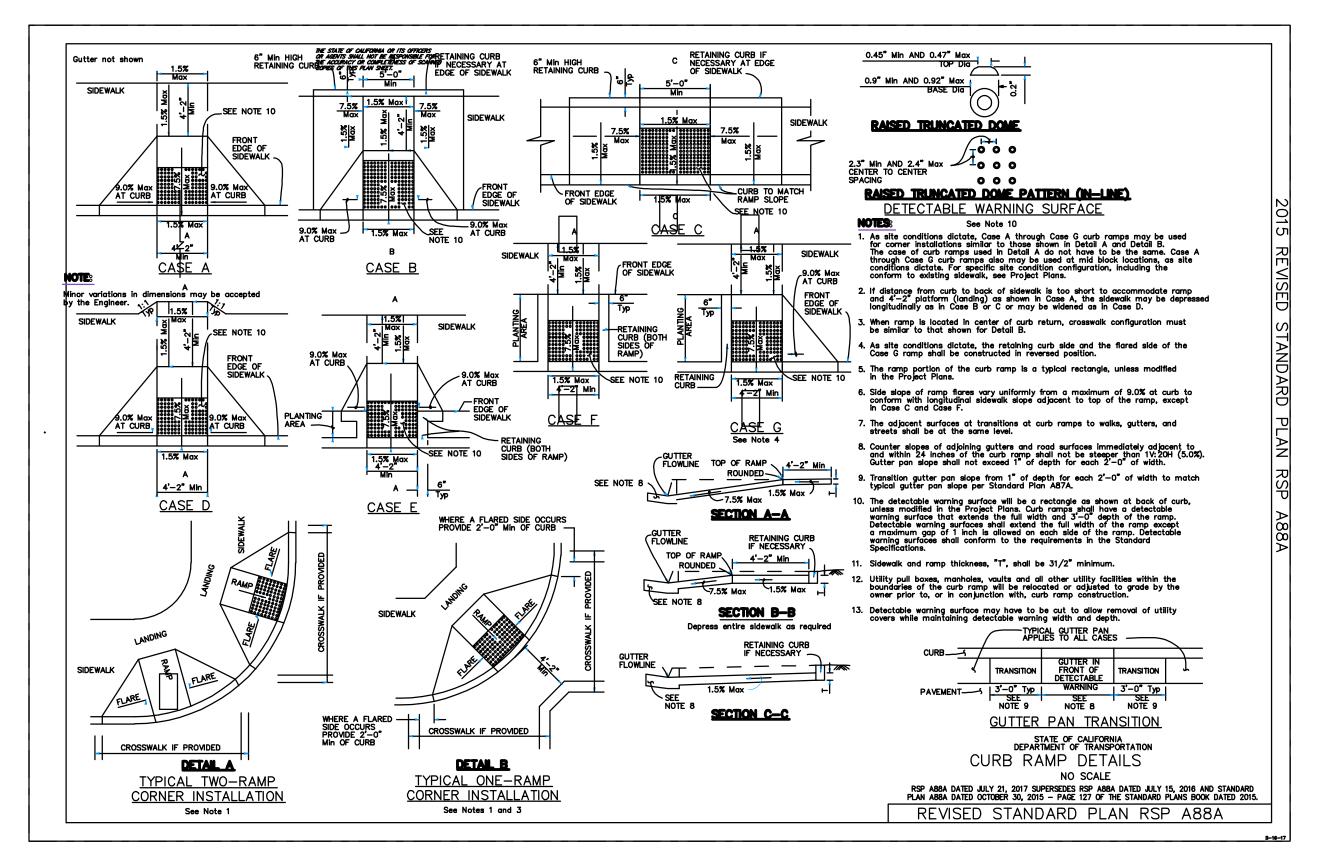
awing Number:
C2.00
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B CALTRANS - PAVEMENT MARKINGS SYMBOLS AND NUMERALS (A24C)
N.T.S.



CALTRANS — CURB RAMP DETAILS RSP A88A N.T.S.

KITTELSOI & ASSOCIATE

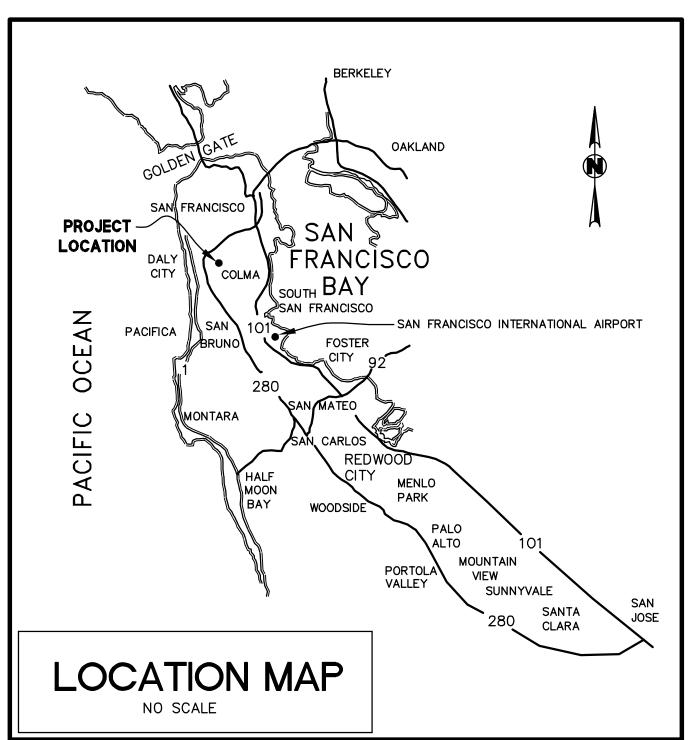
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COLMA BLVD

SYSTEMIC SAFETY ANALYSIS REPORT (SSAR)

IN TOWN OF COLMA, SAN MATEO COUNTY, CALIFORNIA



PROJECT SUMMARY

TOWN OF COLMA 1198 EL CAMINO REAL

COLMA, CA 94014

BKF ENGINEERS 255 SHORELINE DRIVE

REDWOOD CITY, CA 94065 (650) 482-6300

SHEET INDEX:

TITLE SHEET TYPICAL SECTIONS PLAN, SIGNING, & STRIPING

DETAILS

LEGEND RIGHT-OF-WAY

+ +

CURB AND GUTTER CATCH BASIN UTILITY POLE/GUY-WIRE MANHOLE PARKING STALL CROSSLINE UTILITY BOX/VAULT 0 🗆 🗔

STREET LIGHT BIKE LANE SYMBOL SIGN WITH POST(S)

TRAFFIC SIGNAL POLE

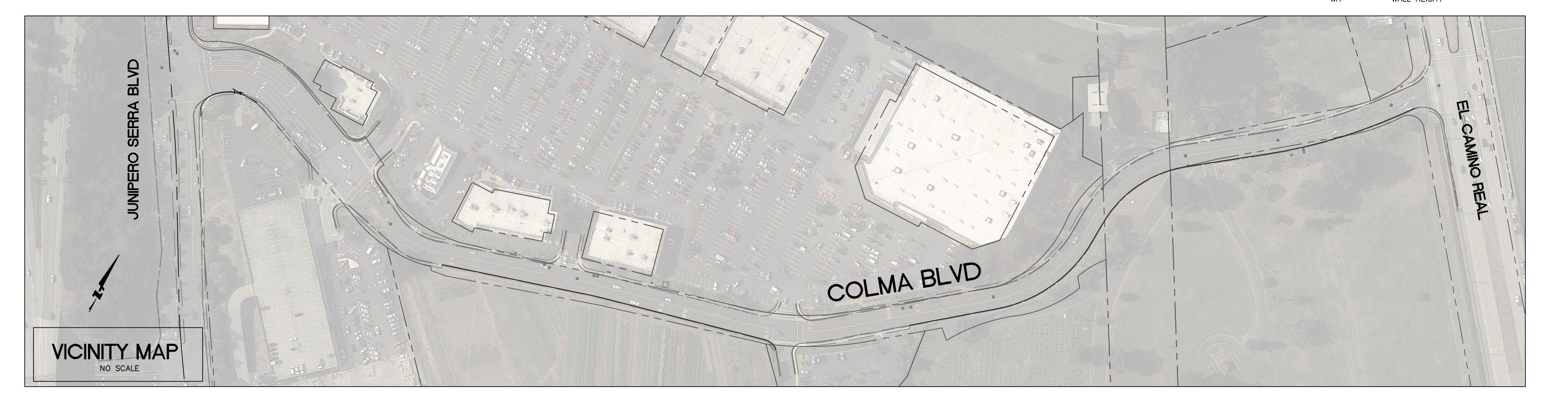
FENCE

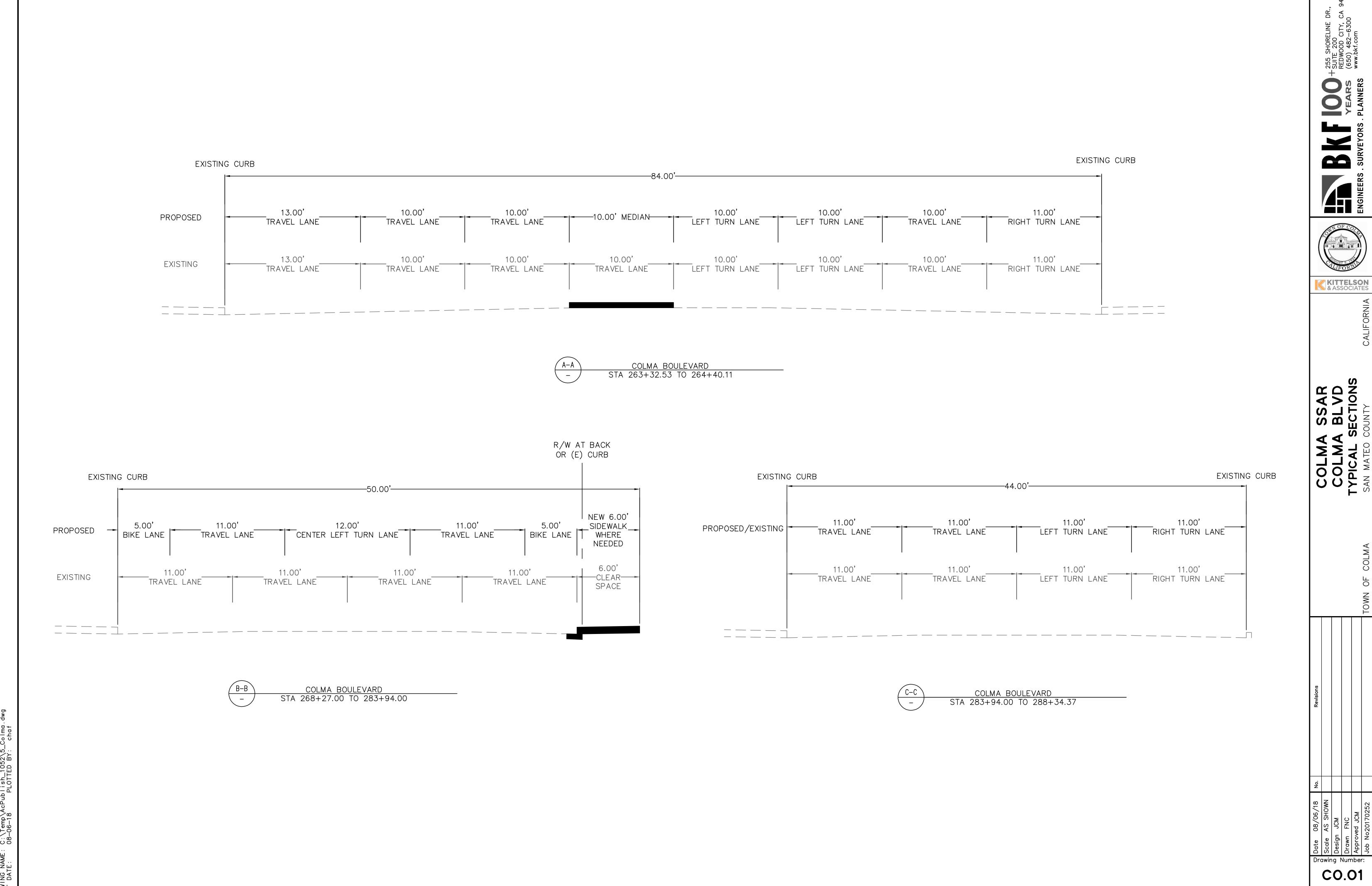
GENERAL NOTES

- 1. THE PROPOSED IMPROVEMENTS SHOWN ON THESE DRAWINGS ARE SUPERIMPOSED ON A BASE SHEET. THE BASE DOES NOT INCLUDE TOPOGRAPHIC SURVEY, IT WAS BASE ON GOOGLE EARTH, COUNTY GIS, AND RECORD DRAWINGS, WITH
- 2. WORK SHALL BE PREFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, TOWN OF COLMA STANDARDS, CALTRANS STANDARD PLANS AND THESE NOTES.
- 3. REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED IN WRITING BY THE CIVIL DESIGN ENGINEER PRIOR
- 4. STANDARD CONSTRUCTION ACTIVITIES SHALL BE LIMITED HOURS REGULATED BY THE CITY. CONTRACTOR SHALL CONFIRM WITH CITY, NO CONSTRUCTION ACTIVITY SHALL TAKE PLACE ON SUNDAY AND LEGAL HOLIDAYS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL PREPARE A TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL FROM THE CITY BEFORE COMMENCING WORK. THE CONTRACTOR SHALL ALSO PROVIDE FLAGMEN, CONES OR BARRICADES, AS NECESSARY TO CONTROL TRAFFIC AND PREVENT HAZARDOUS CONDITIONS. THE CONTRACTOR SHALL LEAVE A 24-HOUR EMERGENCY TELEPHONE NUMBER WITH POLICE, FIRE AND PUBLIC WORKS DEPARTMENTS, AND KEEP THEM INFORMED DAILY OF DETOURS.
- 6. EXISTING PUBLIC PEDESTRIAN WALKWAYS, BIKEPATHS & HANDICAP ACCESS PATHWAYS SHALL BE MAINTAINED DURING CONSTRUCTION TO THE SATISFACTION OF THE CITY ENGINEER.
- 7. SHOULD IT APPEAR THAT THE WORK OUTLINED ON THESE PLANS IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE CIVIL DESIGN ENGINEER, BKF ENGINEERS AT (650) 482-6300, BEFORE PROCEEDING WITH THE WORK IN QUESTION AND REQUEST CLARIFICATION.
- 8. AN ENCROACHMENT PERMIT IS REQUIRED FOR WORK WITHIN THE PUBLIC RIGHT-OF-WAY OR EASEMENT AND MUST BE
- PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL
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ADD'L	ADDITIONAL	N	NORTHING
AGG	AGGREGATE	NG	NATURAL GROUND
APPROX		NO., #	NUMBER
AVG	AVERAGE	NTS "	NOT TO SCALE
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MIS	MISCELLANEOUS	WH	WALL HEIGHT





の BKF Engineers

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DRAWING NAME: PLOT DATE:

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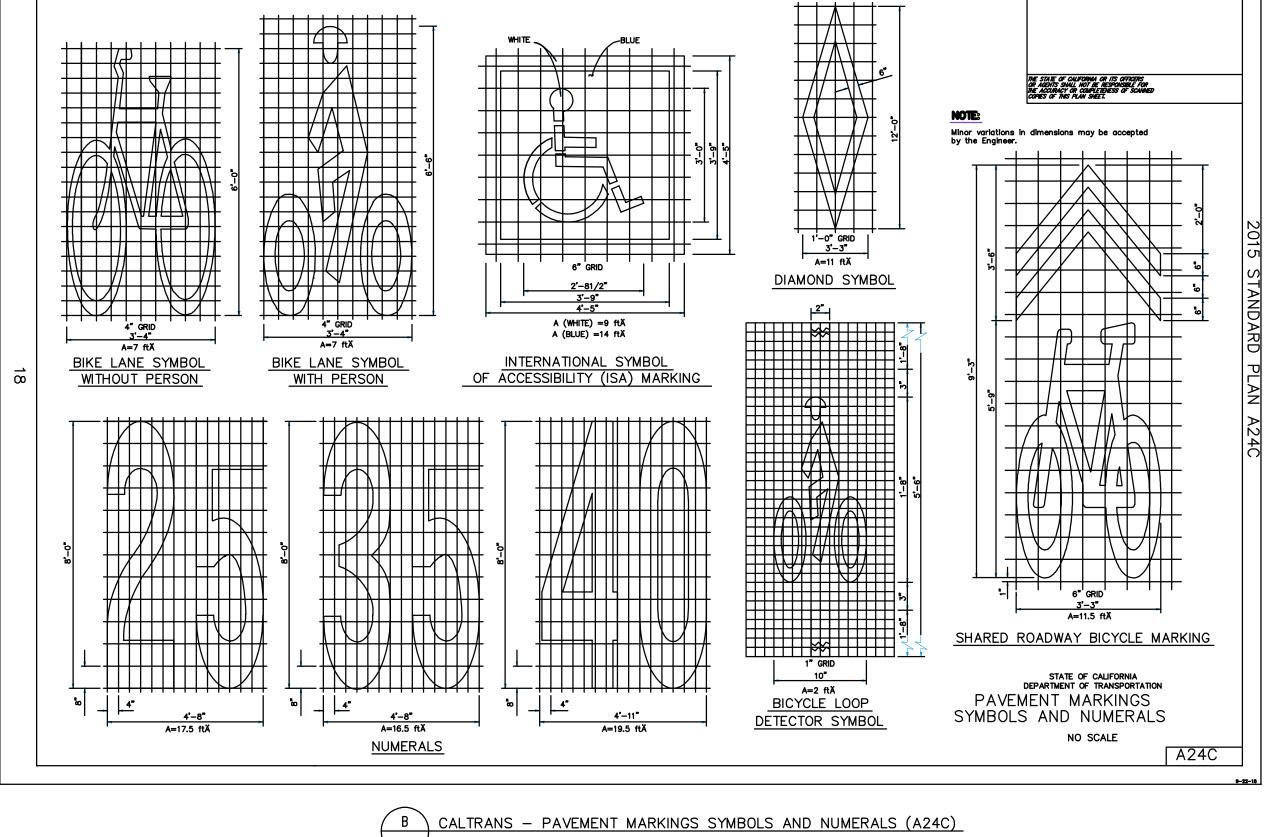
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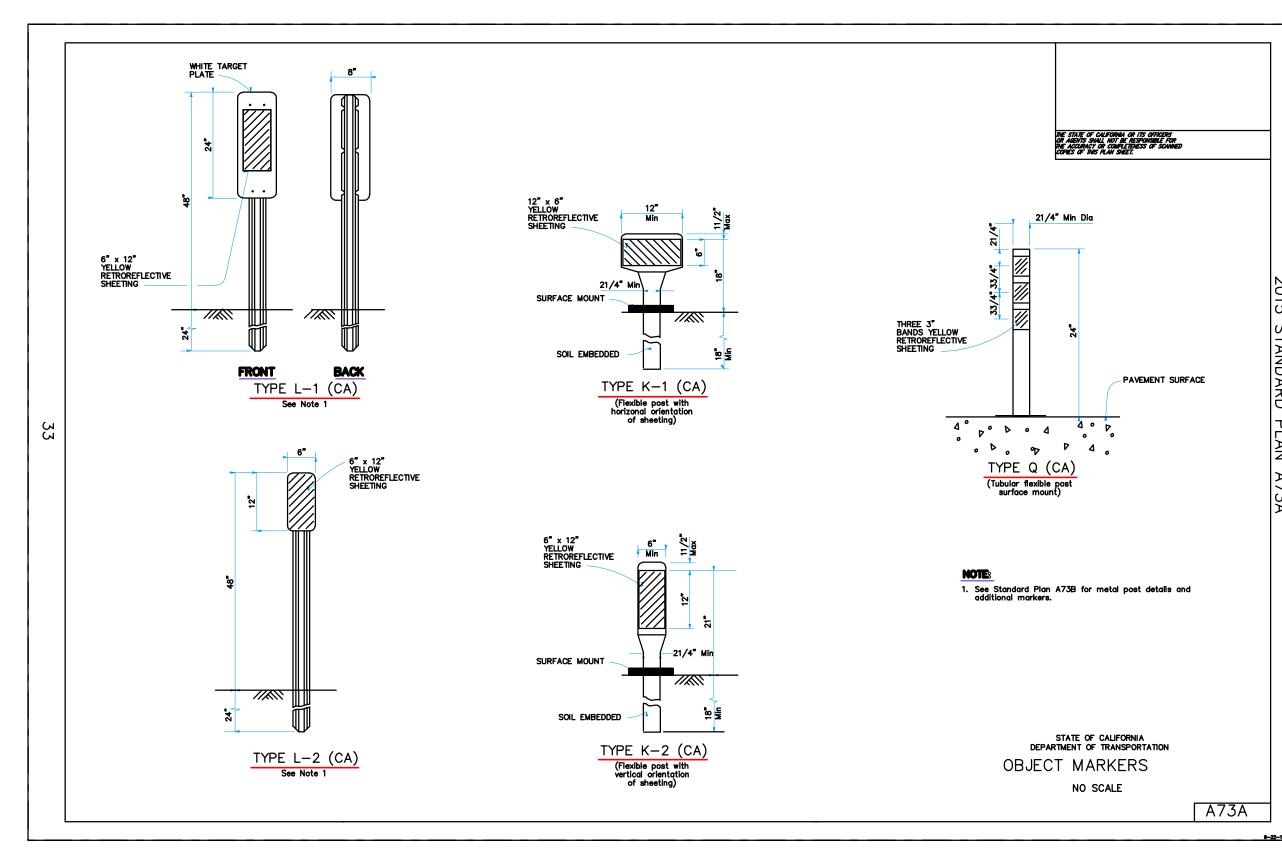
0.45" Min AND 0.47" Max Gutter not shown 0.9" Min AND 0.92" Max
BASE Dia RAISED TRUNCATED DOME 2.3" Min AND 2.4" Max 10 0 0 CENTER TO CENTER SPACING 000 RAISED TRUNCATED DOME PATTERN (IN-LINE) DETECTABLE WARNING SURFACE 1.5% Max SEE NOTE 10 See Note 10 1. As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate. For specific site condition configuration, including the conform to existing sidewalk, see Project Plans. CASE B winor variations in dimensions may be accepted by the Engineer. SIDEWALK The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level. Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1V: 20H (5.0%). Gutter pan slope shall not exceed 1" of depth for each 2"—0" of width. SEE NOTE 10 CURB (BOTH SIDES OF RAMP) 8 GUTTER TOP OF RAMP A'-2" Min ROUNDED 7.5% Max 1.5% Max 1.5% Max SEE NOTE 8 < 4'-2" Min 10. The detectable warning surface will be a rectangle as shown at back of curb, unless modified in the Project Plans. Curb ramps shall have a detectable warning surface that extends the full width and 3"-0" depth of the ramp. Detectable warning surfaces shall extend the full width of the ramp except a maximum gap of 1 inch is allowed on each side of the ramp. Detectable warning surfaces shall conform to the requirements in the Standard Specifications. CASE D <u>CASE E</u> SECTION A-A TOP OF RAMP 4'-2" Min SEE NOTE 8 Detectable warning surface may have to be cut to allow removal of utility covers while maintaining detectable warning width and depth. SIDEWALK Depress entire sidewalk as required TYPICAL GUTTER PAN
APPLIES TO ALL CASES — TRANSITION GUTTER IN FRONT OF DETECTABLE

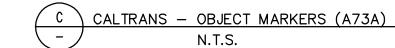
A 1 3'-0" Typ | WARNING 3'-SEE NOTE 8 SECTION C-C **GUTTER PAN TRANSITION** CROSSWALK IF PROVIDED STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION CROSSWALK IF PROVIDED CURB RAMP DETAILS DETAIL A DETAIL B TYPICAL ONE-RAMP NO SCALE <u>TYPICAL TWO-RAMP</u> RSP A88A DATED JULY 21, 2017 SUPERSEDES RSP A88A DATED JULY 15, 2016 AND STANDARD PLAN A88A DATED OCTOBER 30, 2015 — PAGE 127 OF THE STANDARD PLANS BOOK DATED 2015. **CORNER INSTALLATION CORNER INSTALLATION** See Notes 1 and 3 REVISED STANDARD PLAN RSP A88A See Note 1

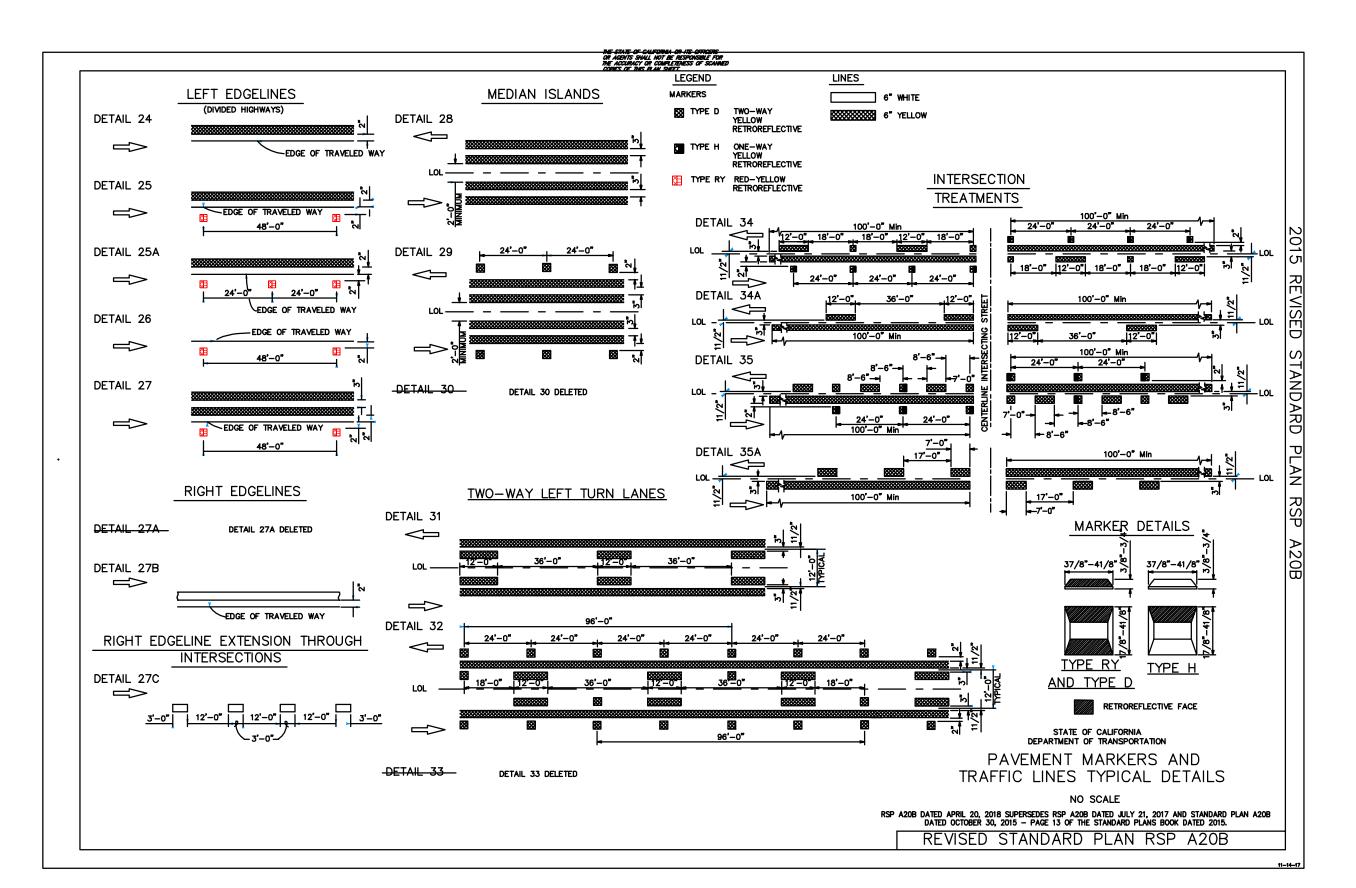
CALTRANS - CURB RAMP DETAILS RSP A88A N.T.S.



N.T.S.







D CALTRANS - PAVEMENT MARKINGS & TRAFFIC LINES TYP. DETAILS (A20B) N.T.S.

RAWING NAM OT DATE:



OPINION OF PROBABLE CONSTRUCTION
COSTS FOR IMPROVEMENTS ASSOCIATED WITH THE
PEDESTRIAN IMPROVEMENTS
ON HILLSIDE BLVD
TOWN OF COLMA

June 29, 2018 Job No. 20170252-10

SUMMARY

A.	ROAD WORK		\$	1,473,000
В.	DEMOLITION WORK		\$	94,000
C.	UTILITY WORK		\$	105,000
D.	MISCELLANEOUS WORK		\$	230,000
E.	SIGNING AND STRIPING		\$	200,000
		SUBTOTAL	\$	2,102,000
	10% MINOR ITEMS 25% CONSTRUCTION CONTINGENCY		\$ \$	211,000 526,000

TOTAL CONSTRUCTION COST \$ 2,839,000

General Notes:

TOTAL PROJECT COST \$ 2,839,000

- 1) This Opinion of Probable Construction Costs is an estimate of the possible improvements associated with the roadway curb, gutter, sidewalk, driveways, and crosswalks along Hillside between Serramonte Blvd and Lawndale Blvd.
- 2) Information regarding existing conditions was taken from a site visit performed by BKF Engineers and Google Earth.
- 3) BKF Engineers makes no warranty, either expressed or implied, that actual costs will not vary from amounts indicated, and assumes no liability for such variances.
- 4) Inflation, permitting, and professional services are not included in this Opinion of Probable Construction Costs.
- 5) Total costs round off to the nearest thousand dollars.
- 6) Driveway, walkway, and conform work on private property is excluded.

Project Description:

- Remove portions of existing curb, gutter, sidewalk, driveway, road, and crosswalks and replace them with new curb, gutter, sidewalk, driveway, road, and crosswalks.



June 29, 2018 Job No. 20170252-10

OPINION OF PROBABLE CONSTRUCTION COSTS FOR IMPROVEMENTS ASSOCIATED WITH THE PEDESTRIAN IMPROVEMENTS ON HILLSIDE BLVD TOWN OF COLMA

ITEMS	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE		AMOUNT
A.	ROAD WORK					
1	Curb and Gutter	5,400	LF	\$30.00	\$	162,000
2	Concrete Sidewalk	41,000	SF	\$20.00	\$	820,000
3	ADA Ramps	6	EA	\$6,000.00	\$	36,000
4	Concrete Driveway	7	EA	\$15,000.00	\$	105,000
5	Microsurfacing	300,000	SF	\$1.00	\$	300,000
6	Conform (Asphalt)	2,500	SF	\$20.00	\$	50,000
В.	DEMOLITION WORK			SUBTOTAL	\$	1,473,000
1	Remove Existing Concrete	3,650	SF	\$20.00	\$	73,000
2	Sawcut	5,400	LF	\$2.00	\$	10,800
3	Remove Existing Markings	1	LS	\$10,000.00	\$	10,000
C.	UTILITY WORK			SUBTOTAL	\$	93,800
1	Relocate Existing Catch Basin	6	EA	\$15,000.00	\$	90,000
2	Adjust Utility Box to Grade	1	LS	\$15,000.00	\$	15,000
2	Adjust Office Box to Grade	ı	LO	, ,	φ	
D.	MISCELLANEOUS WORK			SUBTOTAL	\$	105,000
1	Pedestrian Landing Area (Include Bollards)	1	EA	\$10,000.00	\$	10,000
2	Traffic Control	1	LS	\$100,000.00	\$	100,000
3	Erosion Control	1	LS	\$20,000.00	\$	20,000
4	Rectangular Rapid Flashing Beacon	4	EA	\$25,000.00	\$	100,000
				SUBTOTAL	\$	230,000
E.	SIGNING AND STRIPING					
1	Signing and Striping	1	LS	\$200,000.00	\$	200,000
				SUBTOTAL	\$	200,000



June 29, 2018 Job No. 20170252-10

OPINION OF PROBABLE CONSTRUCTION COSTS FOR IMPROVEMENTS ASSOCIATED WITH THE PEDESTRIAN IMPROVEMENTS ON EL CAMINO REAL TOWN OF COLMA

SUMMARY

A.	ROAD WORK		\$	1,055,000
В.	DEMOLITION WORK		\$	54,000
C.	UTILITY WORK		\$	165,000
D.	MISCELLANEOUS WORK		\$	470,000
E.	SIGNING AND STRIPING		\$	700,000
		SUBTOTAL	\$	2,444,000
	10% MINOR ITEMS 25% CONSTRUCTION CONTINGENCY		\$ \$	245,000 611,000

TOTAL CONSTRUCTION COST \$ 3,300,000

General Notes:

TOTAL PROJECT COST \$ 3,300,000

- 1) This Opinion of Probable Construction Costs is an estimate of the possible improvements associated with the roadway curb, gutter, sidewalk, driveways, and crosswalks along Hillside between Serramonte Blvd and Lawndale Blvd.
- 2) Information regarding existing conditions was taken from a site visit performed by BKF Engineers and Google Earth.
- 3) BKF Engineers makes no warranty, either expressed or implied, that actual costs will not vary from amounts indicated, and assumes no liability for such variances.
- 4) Inflation, permitting, and professional services are not included in this Opinion of Probable Construction Costs.
- 5) Total costs round off to the nearest thousand dollars.
- 6) Driveway, walkway, and conform work on private property is excluded.

Project Description:

- Remove portions of existing curb, gutter, sidewalk, driveway, road, and crosswalks and replace them with new curb, gutter, sidewalk, driveway, road, and crosswalks.



> June 29, 2018 Job No. 20170252-10

OPINION OF PROBABLE CONSTRUCTION COSTS FOR IMPROVEMENTS ASSOCIATED WITH THE PEDESTRIAN IMPROVEMENTS ON EL CAMINO REAL TOWN OF COLMA

ITEMS	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE		AMOUNT
A.	ROAD WORK					
1	Curb and Gutter	1,100	LF	\$30.00	\$	32,985
2	Curb	3,670	LF	\$25.00	\$	91,753
3	Concrete Sidewalk	23,210	SF	\$20.00	\$	464,200
4	ADA Ramps	12	EA	\$6,000.00	\$	72,000
5	Microsurfacing	193,600	SF	\$1.00	\$	193,600
6	Asphalt	5,014	SF	\$20.00	\$	100,276
7	Landscaping	1	LS	\$100,000.00	\$	100,000
В.	DEMOLITION WORK			SUBTOTAL	\$	1,054,814
1	Remove Existing Curb	1,610	SF	\$20.00	\$	32,192
2	Sawcut	5,663	LF	\$2.00	\$	11,326
3	Remove Existing Markings	1	LS	\$10,000.00	\$	10,000
C.	UTILITY WORK			SUBTOTAL	\$	53,518
4	Delegate Frieding Cataly Basin	F	EA	#45.000.00	Φ.	75,000
1	Relocate Existing Catch Basin	5	EA	\$15,000.00	\$,
2	Relocate Manhole	1		\$15,000.00	\$	15,000
3	Relocate Existing Water Structure	1	EA	\$15,000.00	\$	15,000
4	Relocate Streetlight	2	EA	\$15,000.00	\$	30,000
5	Adjust Utility Box to Grade	2	LS	\$15,000.00	\$	30,000
D.	MISCELLANEOUS WORK			SUBTOTAL	\$	165,000
1	Traffic Control	1	LS	\$200,000.00	\$	200,000
2	Erosion Control	1	LS	\$20,000.00	\$	20,000
3	Culvert Headwall	1	LS	\$250,000.00	\$	250,000
_	CIONING AND OTRIBUO			SUBTOTAL	\$	470,000
E.	SIGNING AND STRIPING					
1	Signing and Striping	1	LS	\$100,000.00	\$	100,000
2	Traffic Signal	1	LS	\$600,000.00	\$	600,000
				SUBTOTAL	\$	700,000



> June 29, 2018 Job No. 20170252-10

OPINION OF PROBABLE CONSTRUCTION COSTS FOR IMPROVEMENTS ASSOCIATED WITH THE PEDESTRIAN IMPROVEMENTS ON SERRAMONTE BLVD AND JUNIPERO SERRA BLVD INTERSECTION TOWN OF COLMA

SUMMARY

A.	ROAD WORK		\$	913,000
В.	DEMOLITION WORK		\$	18,000
C.	UTILITY WORK		\$	84,000
D.	MISCELLANEOUS WORK		\$	320,000
E.	SIGNING AND STRIPING		\$	340,000
		SUBTOTAL	\$	1,675,000
	10% MINOR ITEMS 25% CONSTRUCTION CONTINGENCY		\$ \$	168,000 419,000
	20,000.000.000.000.000.000.000.000.000.0	-	Ψ	1.10,000

TOTAL CONSTRUCTION COST \$ 2,262,000

General Notes:

TOTAL PROJECT COST \$ 2,262,000

- 1) This Opinion of Probable Construction Costs is an estimate of the possible improvements associated with the roadway curb, gutter, sidewalk, driveways, and crosswalks at the Serramonte Blvd and Junipero Serra Blvd intersection.
- 2) Information regarding existing conditions was taken from a site visit performed by BKF Engineers and Google Earth.
- 3) BKF Engineers makes no warranty, either expressed or implied, that actual costs will not vary from amounts indicated, and assumes no liability for such variances.
- 4) Inflation, permitting, and professional services are not included in this Opinion of Probable Construction Costs.
- 5) Total costs round off to the nearest thousand dollars.
- 6) Driveway, walkway, and conform work on private property is excluded.

Project Description:

- Remove portions of existing curb, gutter, sidewalk, driveway, road, and crosswalks and replace them with new curb, gutter, sidewalk, driveway, road, and crosswalks.



> June 29, 2018 Job No. 20170252-10

OPINION OF PROBABLE CONSTRUCTION COSTS FOR IMPROVEMENTS ASSOCIATED WITH THE PEDESTRIAN IMPROVEMENTS ON SERRAMONTE AND JUNIPERO SERRA INTERSECTION TOWN OF COLMA

ITEMS	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	/	AMOUNT
A.	ROAD WORK					
1	Curb and Gutter	100	LF	\$30.00	\$	3,000
2	Curb	580	LF	\$25.00	\$	14,500
3	Concrete Median	5,390	SF	\$20.00	\$	107,800
5	Microsurfacing	83,000	SF	\$1.00	\$	83,000
6	Asphalt	30,250	SF	\$20.00	\$	605,000
7	Landscaping	1	LS	\$100,000.00	\$	100,000
В.	DEMOLITION WORK			SUBTOTAL	\$	913,300
1	Remove Existing Curb	300	LF	\$20.00	\$	6,000
2	Sawcut	450	LF	\$2.00	\$	900
3	Remove Existing Street Light	1	EA	\$1,500.00	\$	1,500
4	Remove Existing Markings	1	LS	\$10,000.00	\$	10,000
C.	UTILITY WORK			SUBTOTAL	\$	18,400
1	Relocate Existing Catch Basin	1	EA	\$15,000.00	\$	15,000
2	Adjust Existing Utilities	1	LS	\$15,000.00	\$	15,000
3	New Street Light	3	EA	\$18,000.00	\$	54,000
				SUBTOTAL	\$	84,000
D.	MISCELLANEOUS WORK					
1	Traffic Control	1	LS	\$300,000.00	\$	300,000
2	Erosion Control	1	LS	\$20,000.00	\$	20,000
_	CICNING AND CTRIPING			SUBTOTAL	\$	320,000
E.	SIGNING AND STRIPING					
1	Signing and Striping	1	LS	\$40,000.00	\$	40,000
2	Traffic Signal	1	LS	\$300,000.00	\$	300,000
				SUBTOTAL	\$	340,000



OPINION OF PROBABLE CONSTRUCTION
COSTS FOR IMPROVEMENTS ASSOCIATED WITH THE
PEDESTRIAN IMPROVEMENTS
ON JUNIPERO SERRA
TOWN OF COLMA

June 29, 2018 Job No. 20170252-10

SUMMARY

	TOTAL CONSTRU	ICTION COST	\$ 269.000
	25% CONSTRUCTION CONTINGENCY		\$ 50,000
	10% MINOR ITEMS		\$ 20,000
		SUBTOTAL	\$ 199,000
E.	SIGNING AND STRIPING		\$ 50,000
D.	MISCELLANEOUS WORK		\$ 50,000
C.	UTILITY WORK		\$ 15,000
В.	DEMOLITION WORK		\$ 10,000
A.	ROAD WORK		\$ 74,000

General Notes: TOTAL PROJECT COST \$ 269,000

- 1) This Opinion of Probable Construction Costs is an estimate of the possible improvements associated with the roadway curb, gutter, sidewalk, driveways, and crosswalks along Junipero Serra between Serramonte Blvd and Colma Blvd.
- 2) Information regarding existing conditions was taken from a site visit performed by BKF Engineers and Google Earth.
- 3) BKF Engineers makes no warranty, either expressed or implied, that actual costs will not vary from amounts indicated, and assumes no liability for such variances.
- 4) Inflation, permitting, and professional services are not included in this Opinion of Probable Construction Costs.
- 5) Total costs round off to the nearest thousand dollars.
- Driveway, walkway, and conform work on private property is excluded.

Project Description:

- Remove portions of existing curb, gutter, sidewalk, driveway, road, and crosswalks and replace them with new curb, gutter, sidewalk, driveway, road, and crosswalks.



> June 29, 2018 Job No. 20170252-10

OPINION OF PROBABLE CONSTRUCTION COSTS FOR IMPROVEMENTS ASSOCIATED WITH THE PEDESTRIAN IMPROVEMENTS ON JUNIPERO SERRA TOWN OF COLMA

ITEMS	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	Α	MOUNT
A.	ROAD WORK					
1	Curb and Gutter	180	LF	\$30.00	\$	5,400
2	Curb	240	LF	\$25.00	\$	6,000
3	Concrete Sidewalk & Median	1,170	SF	\$20.00	\$	23,400
4	Detectable Warning Surface	820	SF	\$20.00	\$	16,400
5	ADA Ramps	1	EA	\$6,000.00	\$	6,000
6	Concrete Driveway	1	SF	\$15,000.00	\$	15,000
7	Microsurfacing	1,650	SF	\$1.00	\$	1,650
В.	DEMOLITION WORK			SUBTOTAL	\$	73,850
4	Domovo Evicting Curb	230	SF	\$20.00	æ	4 600
1 2	Remove Existing Curb Sawcut	440	SF LF	\$20.00 \$2.00	\$	4,600 880
3	Remove Existing Markings	1	LS	\$5,000.00	\$ \$	5,000
3	Remove Existing Markings	'	LS	\$5,000.00	Φ	5,000
C.	UTILITY WORK			SUBTOTAL	\$	10,480
1	Adjust Utility Box to Grade	3	EA	\$5,000.00	\$	15,000
D.	MISCELLANEOUS WORK			SUBTOTAL	\$	15,000
ъ.	MIGGELEAREGOO WORK					
1	Traffic Control	1	LS	\$50,000.00	\$	50,000
_				SUBTOTAL	\$	50,000
E.	SIGNING AND STRIPING					
1	Signing and Striping	1	LS	\$50,000.00	\$	50,000
				SUBTOTAL	\$	50,000



June 29, 2018 Job No. 20170252-10

OPINION OF PROBABLE CONSTRUCTION COSTS FOR IMPROVEMENTS ASSOCIATED WITH THE PEDESTRIAN IMPROVEMENTS ON COLMA BOULEVARD TOWN OF COLMA

SUMMARY

A.	ROAD WORK		\$ 411,000
В.	DEMOLITION WORK		\$ 15,000
C.	MISCELLANEOUS WORK		\$ 50,000
D.	SIGNING AND STRIPING		\$ 90,000
	s	UBTOTAL	\$ 566,000
	10% MINOR ITEMS		\$ 57,000
	25% CONSTRUCTION CONTINGENCY		\$ 142,000

TOTAL CONSTRUCTION COST \$ 765,000

General Notes: TOTAL PROJECT COST \$ 765,000

- 1) This Opinion of Probable Construction Costs is an estimate of the possible improvements associated with the roadway curb, gutter, sidewalk, driveways, and crosswalks along Colma Boulevard between El Camino Real and Juniperro Serra.
- 2) Information regarding existing conditions was taken from a site visit performed by BKF Engineers and Google Earth.
- 3) BKF Engineers makes no warranty, either expressed or implied, that actual costs will not vary from amounts indicated, and assumes no liability for such variances.
- 4) Inflation, permitting, and professional services are not included in this Opinion of Probable Construction Costs.
- 5) Total costs round off to the nearest thousand dollars.
- 6) Driveway, walkway, and conform work on private property is excluded.

Project Description:

- Remove portions of existing curb, gutter, sidewalk, driveway, road, and crosswalks and replace them with new curb, gutter, sidewalk, driveway, road, and crosswalks.



> June 29, 2018 Job No. 20170252-10

OPINION OF PROBABLE CONSTRUCTION COSTS FOR IMPROVEMENTS ASSOCIATED WITH THE PEDESTRIAN IMPROVEMENTS ON COLMA BOULEVARD TOWN OF COLMA

ITEMS	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	,	AMOUNT
Α.	ROAD WORK					
1	Concrete Sidewalk/Median	15,000	SF	\$20.00	\$	300,000
2	Microsurfacing	100,100	SF	\$1.00	\$	100,100
3	Caltrans Type Q Posts	9	EA	\$500.00	\$	4,500
4	ADA Ramps	1	EA	\$6,000.00	\$	6,000
				SUBTOTAL	\$	410,600
В.	DEMOLITION WORK					
1	Sawcut	2,500	LF	\$2.00	\$	5,000
2	Remove Existing Markings	1	LS	\$10,000.00	\$	10,000
				SUBTOTAL	\$	15,000
C.	MISCELLANEOUS WORK					
1	Traffic Control	1	LS	\$50,000.00	\$	50,000
				-		
	CICAUNC AND CEDIDING			SUBTOTAL	\$	50,000
D.	SIGNING AND STRIPING					
1	Signing and Striping	1	LS	\$90,000.00	\$	90,000
				SUBTOTAL	\$	90,000