

HAVEN AVENUE AT MARSH ROAD

CONCEPTUAL ROADWAY IMPROVEMENTS

CITY OF MENLO PARK, SAN MATEO COUNTY, CALIFORNIA

CALTRANS PERMIT #: 0413-NSV1148



255 SHORELINE DRIVE, STE 200
REDWOOD CITY, CA 94065
650/482-6300
650/482-6399 (FAX)



CALIFORNIA

HAVEN AVENUE AT MARSH ROAD
CONCEPTUAL ROADWAY IMPROVEMENTS
TITLE SHEET
SAN MATEO COUNTY
MENLO PARK

CONCEPTUAL DESIGN PER MITIGATION MEASURES TR-1g AND TR-2w

PROJECT CONTACTS

OWNER/DEVELOPER: ST ANTON PARTNERS
1801 I STREET
SACRAMENTO, CA 94588
CONTACT: RACHEL GREEN
PHONE: (916) 444-9887

CIVIL ENGINEER / SURVEYOR: BKF ENGINEERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
CONTACT: EASTON McALLISTER
PHONE: (650) 482-6300

LANDSCAPE ARCHITECT: MJS DESIGN GROUP
507 30TH STREET
NEWPORT BEACH, CA 92663
CONTACT:
PHONE: (949) 675-9964

GEOTECHNICAL ENGINEER: EEI GEOTECHNICAL & ENVIRONMENTAL SOLUTIONS
2195 FARADAY AVENUE, SUITE K
CARLSBAD, CA 92008
CONTACT: BILL MORRISON
PHONE: (760) 431-3747

DRY UTILITIES ENGINEER: RGA DESIGN
6400 VILLAGE PARKWAY SUITE 204
DUBLIN, CA 94568
CONTACT: DARLENE HAYES
PHONE: (925) 556-1725

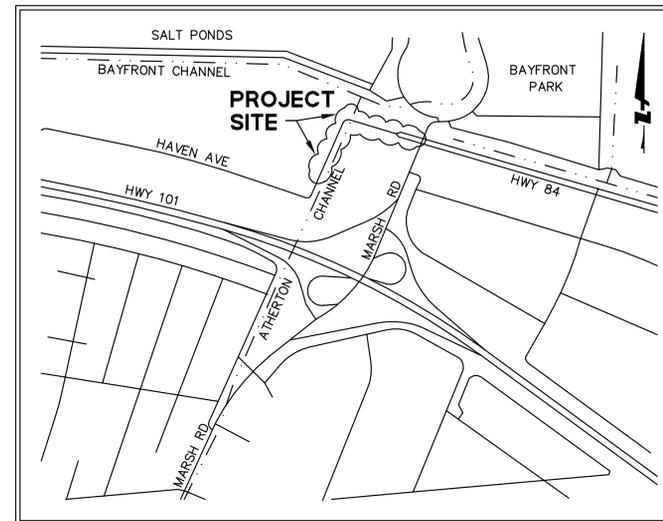
SEWER SERVICE: WEST BAY SANITARY DISTRICT
500 LAUREL STREET
MENLO PARK, CA 94025
CONTACT: BILL KITAJIMA
PHONE: (650) 321-0384

WATER SERVICE: MENLO PARK WATER DISTRICT
701 LAUREL STREET
MENLO PARK, CA 94025
CONTACT:
PHONE: (650) 330-6780

FIRE PROTECTION: MENLO PARK FIRE PROTECTION DISTRICT
1017 MIDDLEFIELD ROAD
REDWOOD CITY, CA 94063
CONTACT:
PHONE: (650) 780-7000

GAS AND ELECTRIC SERVICE: PACIFIC GAS AND ELECTRIC
275 INDUSTRIAL RD, RM 129
SAN CARLOS, CA 94070
CONTACT:
PHONE: (650) 598-7326

SWPPP: NCRM, INC.
6190 NORTH STATE ST.
CALPELLA, CA 95418
CONTACT: JUSTIN COFFMAN
PHONE: (707) 485-7211



VICINITY MAP
N.T.S.

SHEET INDEX		
NO.	NAME	DESCRIPTION
1	C-1	TITLE SHEET
2	C-2	EXISTING CONDITIONS AND DEMOLITION PLAN
3	C-3	HORIZONTAL CONTROL PLAN
4	C-4	GRADING PLAN
5	C-5	STRIPING PLAN VIEW
6	C-6	STRIPING CROSS SECTIONS
7	C-7	STRIPING CROSS SECTION DETAILS
8	C-8	DETAILS SHEET
9	C-9	HAVEN AVENUE AND HAVEN COURT INTERSECTION
10	C-10	EROSION CONTROL PLAN
11	C-11	EROSION CONTROL NOTES AND DETAILS

ABBREVIATIONS

SYMBOL	DESCRIPTION
AB	AGGREGATE BASE
AC	ASPHALTIC CONCRETE
BC	BEGIN CURVE
BFP	BACK FLOW PREVENTOR
BW	BACK OF WALK
CB	CATCH BASIN
DW	DOMESTIC WATER
EC	END CURVE
E, ELEC	ELECTRIC
EX, EXIST	EXISTING
EG	EXISTING GROUND
EL, ELEV	ELEVATION
EP	EDGE OF PAVEMENT
FG	FINISH GRADE
FL	FLOW LINE
GB	GRADE BREAK
GW	GUY WIRE
HP	HIGH POINT
JP	JOINT POLE
LF	LINEAR FOOT
LP	LIP OF GUTTER
MAX	MAXIMUM
MIN	MINIMUM
NTS	NOT TO SCALE
OH	OVERHEAD
PL	PROPERTY LINE
PR, PROP	PROPOSED
R	RADIUS
RW	RIGHT OF WAY
S	SLOPE
SSMH	SANITARY SEWER MANHOLE
TC	TOP OF CURB
TP	TOP OF PAVEMENT
TYP	TYPICAL

PROJECT BENCHMARK

CITY OF MENLO PARK BENCHMARK NO. 3, EL. 5.428 FEET (NGDV 29), BRONZE DISK EPOXIED INTO THE TOP OF CONCRETE ON THE NORTHERLY CURB LINE OF HAVEN AVENUE AND WEST SIDE OF A STORM WATER CATCH BASIN.

AT THE REQUEST OF THE CITY OF MENLO PARK, A MATHEMATICAL ADJUSTMENT OF 2.70 FEET WAS MADE TO BRING THE SITE TO NAVD88. NAVD88 BENCH MARK ELEVATION = 8.13 FEET.

BASIS OF BEARINGS

THE EAST LINE OF PARCEL 2, AS SHOWN IN BOOK 53 OF PARCEL MAPS ON PAGE 38 WAS TAKEN AS N24°12'50"E, WAS ESTABLISHED FROM FOUND MONUMENTS AND SERVED AS THE BASIS OF BEARINGS.

FLOOD ZONE

FEMA DESIGNATED FLOOD ZONE; FLOOD ZONE "AE"; AREAS OUTSIDE 0.2% ANNUAL CHANCE FLOOD PLAIN PER FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 06081 C 0306 E DATED OCTOBER 16, 2012.

ENGINEER'S STATEMENT

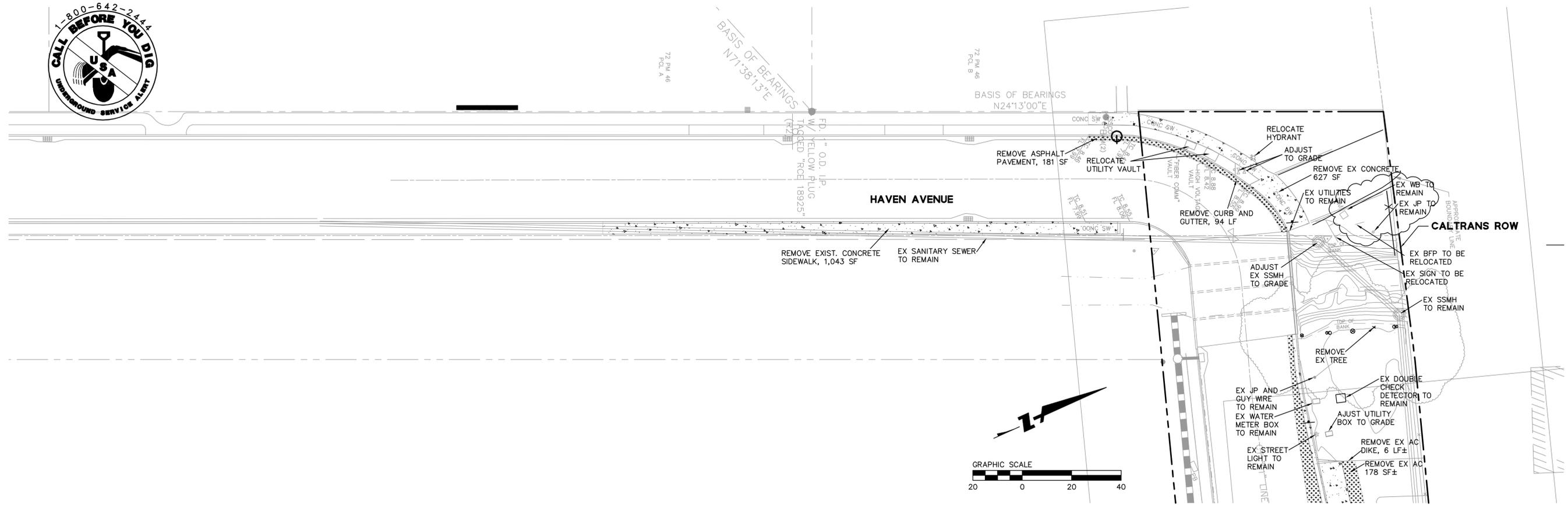
THESE PLANS HAVE BEEN PREPARED BY ME OR UNDER MY DIRECTION IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICE.



EASTON C. MCALLISTER
P.E. #61148
BKF ENGINEERS

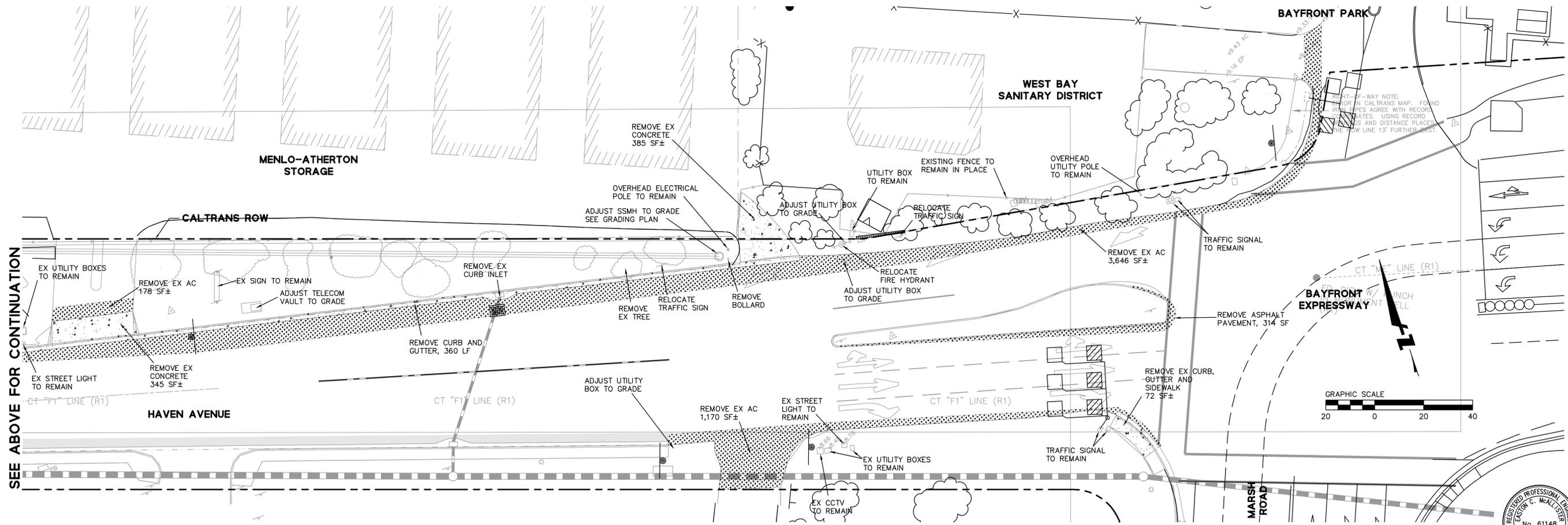
Date	By	Description
03/20/2015	AS SHOWN	Design EM
	Drawn	
	Approved	
	Job No	20120200-11

Drawing Number:
C-1
OF 11



EXISTING CONDITIONS AND DEMOLITION PLAN
1" = 20'

SEE BELOW FOR CONTINUATION



EXISTING CONDITIONS AND DEMOLITION PLAN
1" = 20'

SEE ABOVE FOR CONTINUATION



Revisions	No.	Date
	03/20/2015	

Scale: 1" = 20'
Design: EM
Drawn:
Approved:
Job No: 20120200-11
Drawing Number: **C-2**
2 OF 11

CONCEPTUAL DESIGN PER MITIGATION MEASURES TR-1g AND TR-2w



255 SHORELINE DRIVE, STE 200
 REDWOOD CITY, CA 94065
 650/482-6300
 650/482-6399 (FAX)



CALIFORNIA

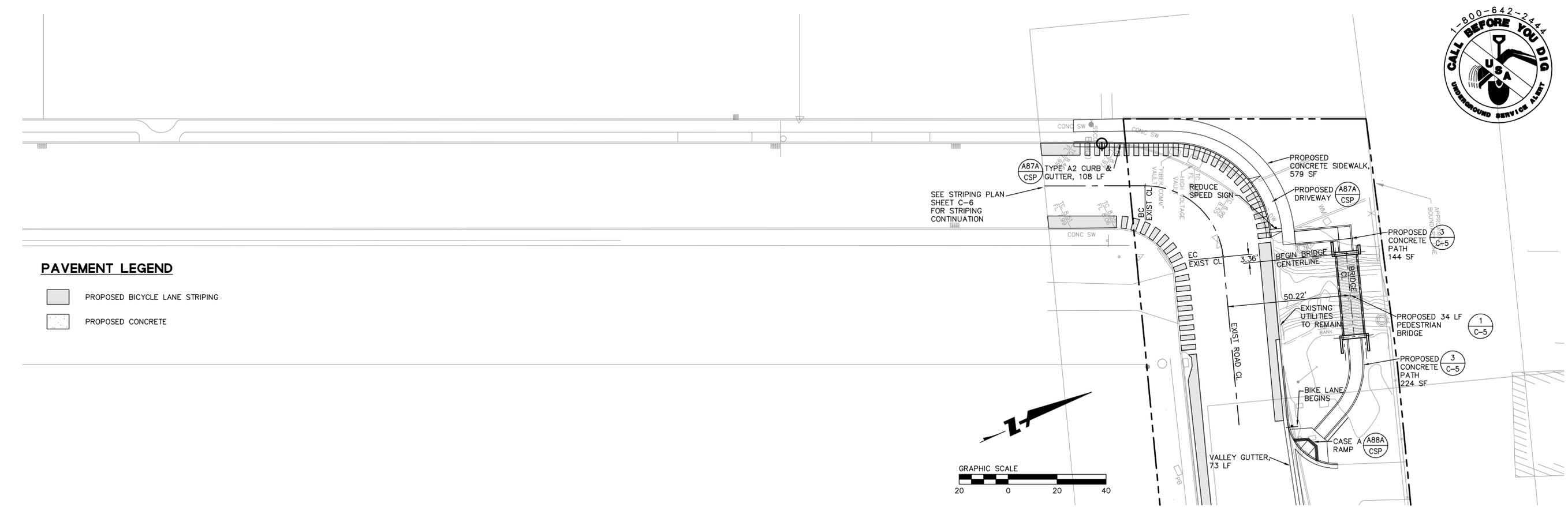
**HAVEN AVENUE AT MARSH ROAD
 CONCEPTUAL ROADWAY IMPROVEMENTS
 HORIZONTAL CONTROL PLAN**

MENLO PARK

CONCEPTUAL DESIGN PER MITIGATION MEASURES TR-1g AND TR-2w

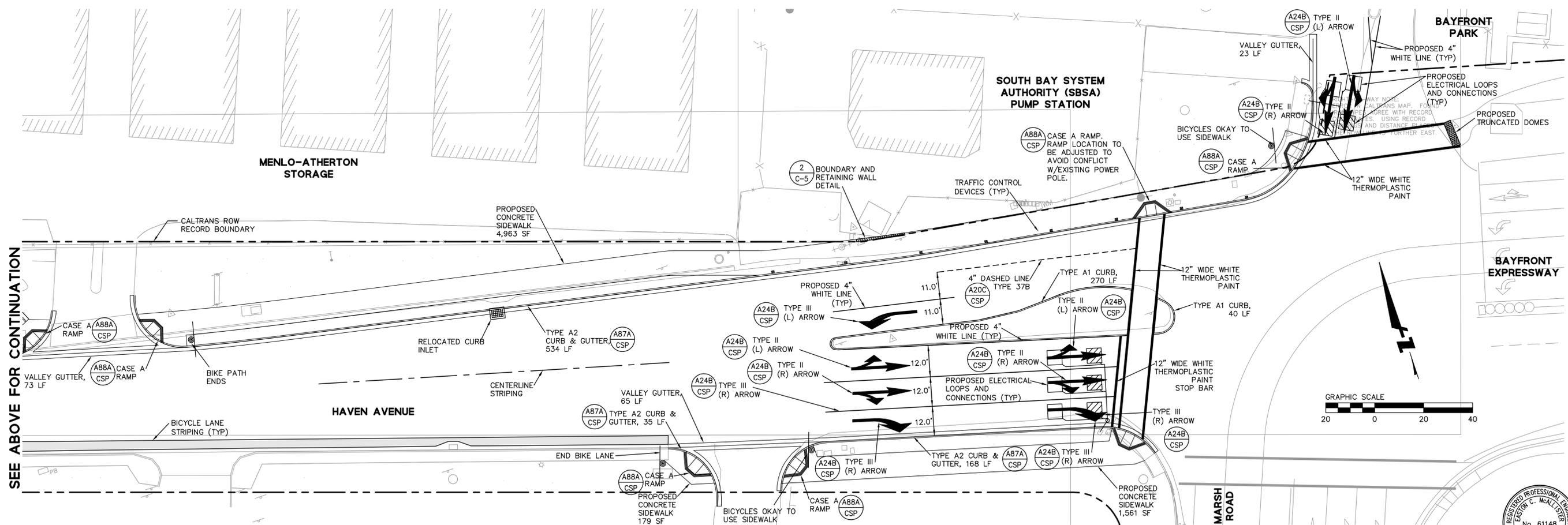
PAVEMENT LEGEND

	PROPOSED BICYCLE LANE STRIPING
	PROPOSED CONCRETE



**HORIZONTAL CONTROL PLAN
 1" = 20"**

SEE BELOW FOR CONTINUATION



**HORIZONTAL CONTROL PLAN
 1" = 20"**

SEE ABOVE FOR CONTINUATION

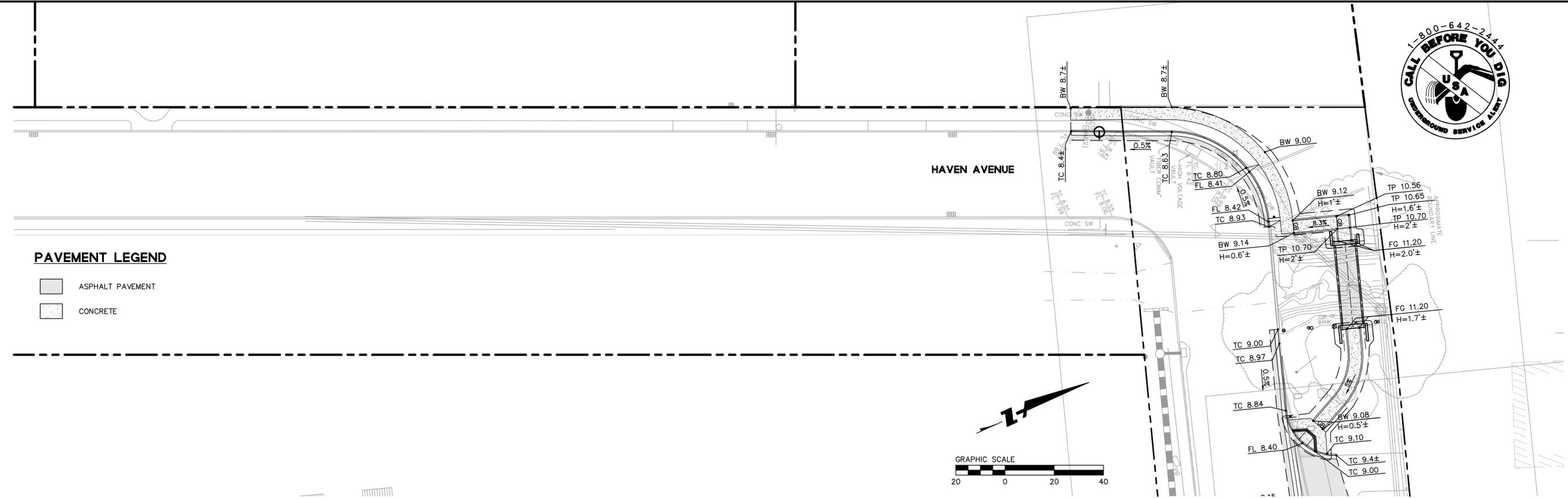


No.	Revisions
Date 03/20/2015	Scale AS SHOWN
Design EM	Drawn
Approved	Job No 20120200-11
Drawing Number:	
C-3	
3 OF 11	



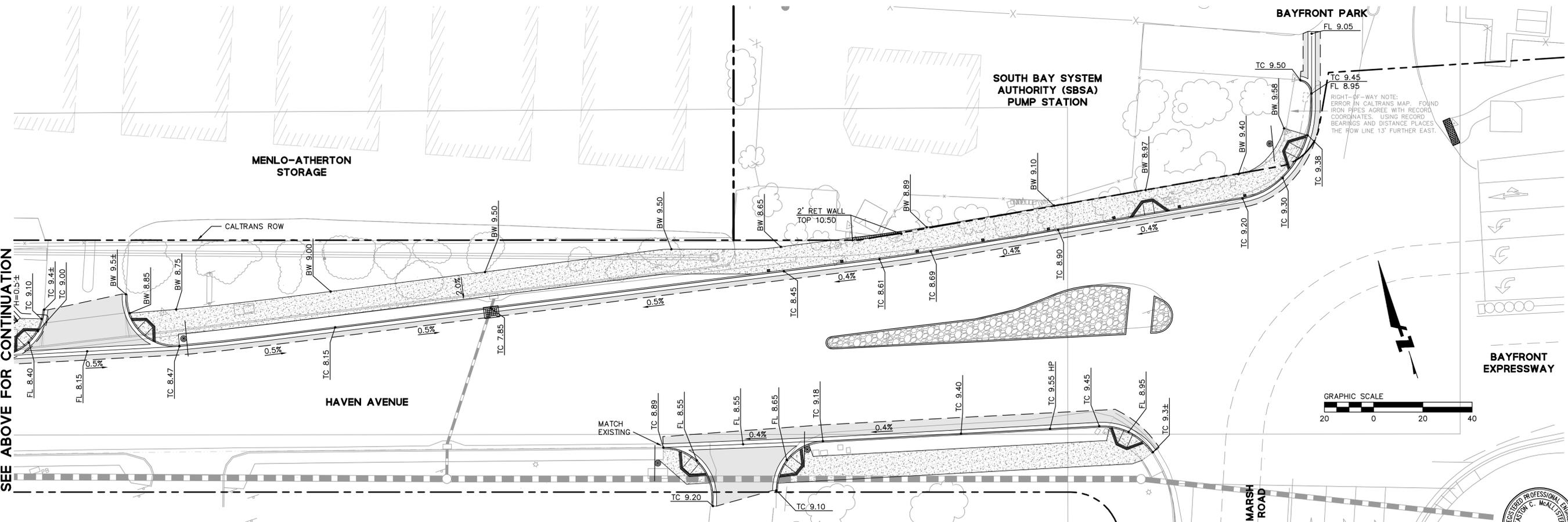
PAVEMENT LEGEND

- ASPHALT PAVEMENT
- CONCRETE



GRADING PLAN
1" = 20'

SEE BELOW FOR CONTINUATION



GRADING PLAN
1" = 20'

SEE ABOVE FOR CONTINUATION

255 SHORELINE DRIVE, STE 200
REDWOOD CITY, CA 94065
650/482-6300
650/482-6399 (FAX)



CALIFORNIA

**HAVEN AVENUE AT MARSH ROAD
CONCEPTUAL ROADWAY IMPROVEMENTS
GRADING PLAN**

MENLO PARK

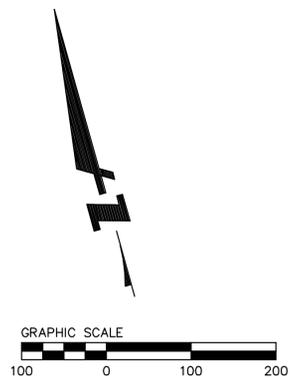
CONCEPTUAL DESIGN PER MITIGATION MEASURES TR-1g AND TR-2w

RIGHT-OF-WAY NOTE:
ERROR IN CALTRANS MAP. FOUND
IRON PIPES AGREE WITH RECORD
COORDINATES. USING RECORD
BEARINGS AND DISTANCE PLACES
THE ROW LINE 13' FURTHER EAST.



Date	03/20/2015
Scale	AS SHOWN
Design	EM
Drawn	
Approved	
Job No	20120200-11

Drawing Number:
C-4
4 OF 11



GENERAL NOTES

1. SPACE CALTRANS BICYCLE LANE ARROW SYMBOL, DETAIL A24A AND A24C, AT 150 FEET THROUGHOUT PROPOSED BIKE LANE.

STRIPING SECTION LEGEND

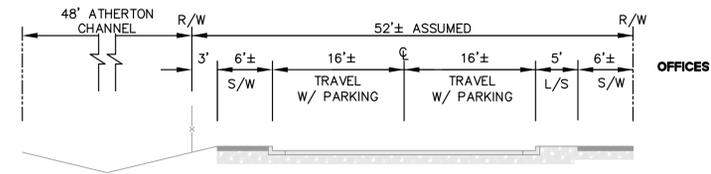
STRIPING SECTION #1 APPROX. 604 LF	-----
STRIPING SECTION #2 APPROX. 2125 LF
STRIPING SECTION #3 APPROX. 350 LF	————
STRIPING BUFFER AT EXISTING DRIVEWAY DETAIL 1/C-10	○
LIMIT OF WORK	-----

255 SHORELINE DRIVE, STE 200
REDWOOD CITY, CA 94065
650/482-6300
650/482-6399 (FAX)

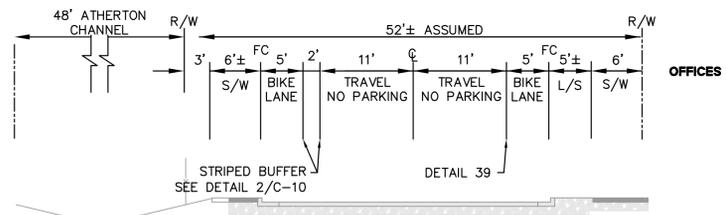


HAVEN AVENUE AT MARSH ROAD
 CONCEPTUAL ROADWAY IMPROVEMENTS
 STRIPING PLAN VIEW
 SAN MATEO COUNTY
 CALIFORNIA
 MENLO PARK

Revisions	No.	
Date	03/20/2015	
Scale	1"=100'	
Design	RB	
Drawn	RB	
Approved	JD	
Job No	20120200-11	

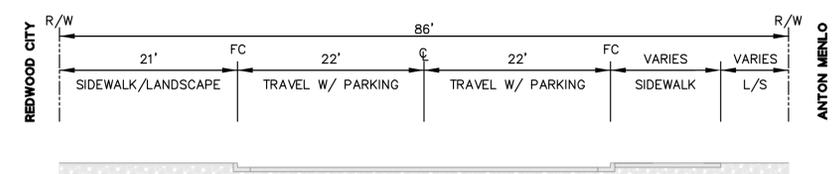


HAVEN AVENUE - EXISTING

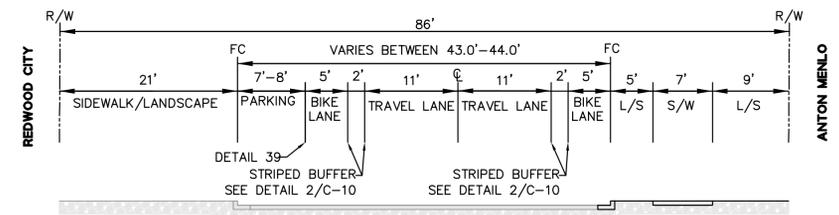


HAVEN AVENUE - PROPOSED

1 HAVEN AVENUE STREET SECTION

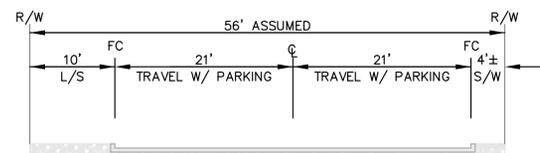


HAVEN AVENUE - EXISTING

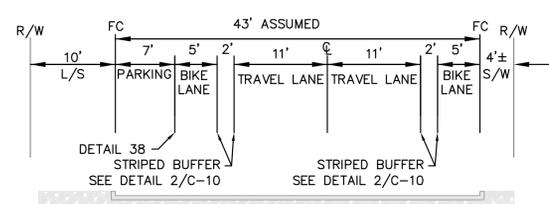


HAVEN AVENUE - PROPOSED

2 HAVEN AVENUE STREET SECTION

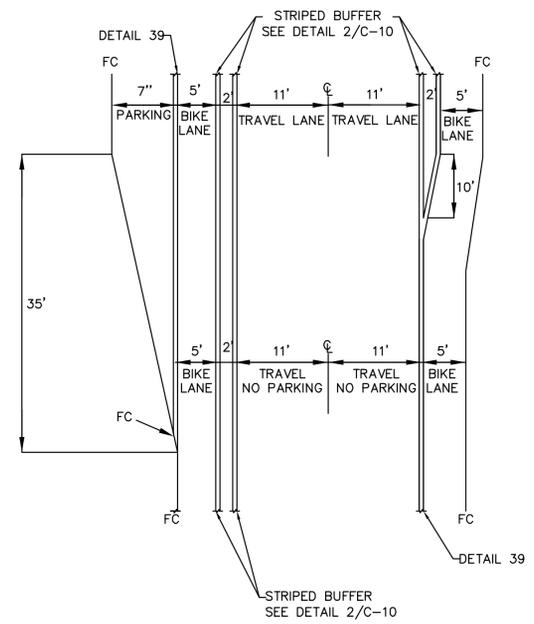


HAVEN AVENUE - EXISTING



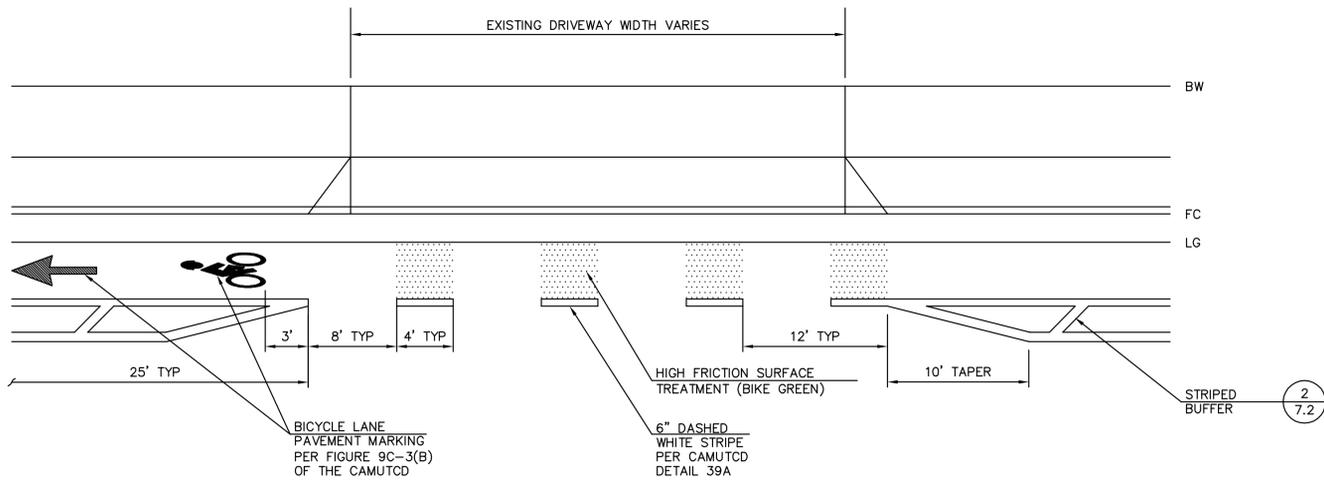
HAVEN AVENUE - PROPOSED

3 HAVEN AVENUE STREET SECTION

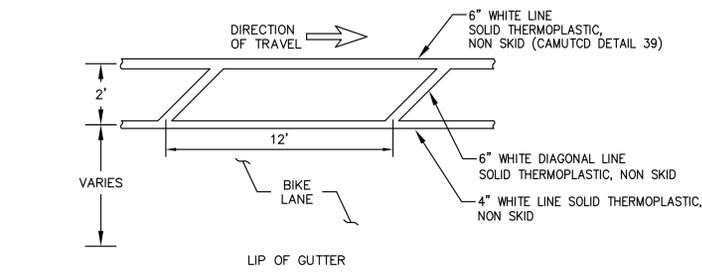


4 STRIPING TRANSITION

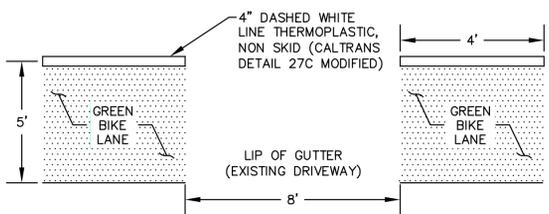
Date	03/20/2015
Scale	AS SHOWN
Design	RB
Drawn	
Approved	
Job No	20120200-11
Drawing Number:	C-6
	6 OF 11



1
—
BIKE LANE STRIPING IN FRONT OF DRIVEWAY



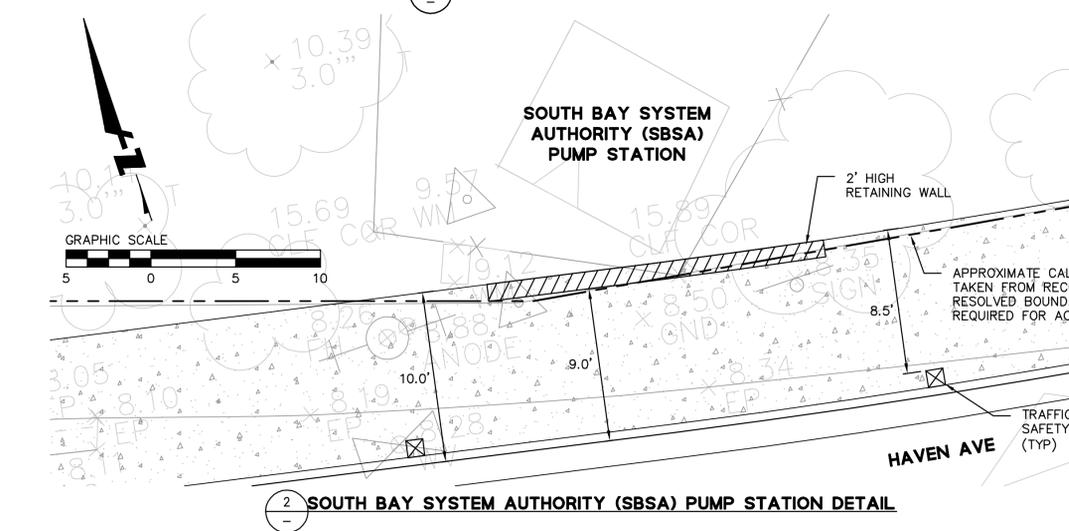
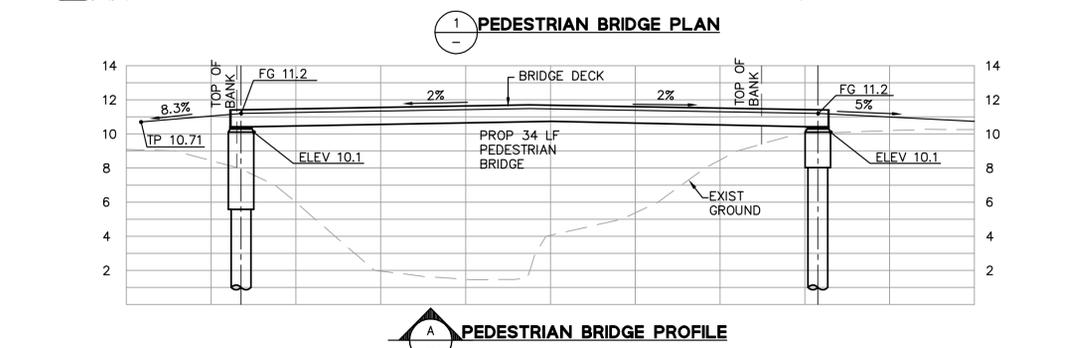
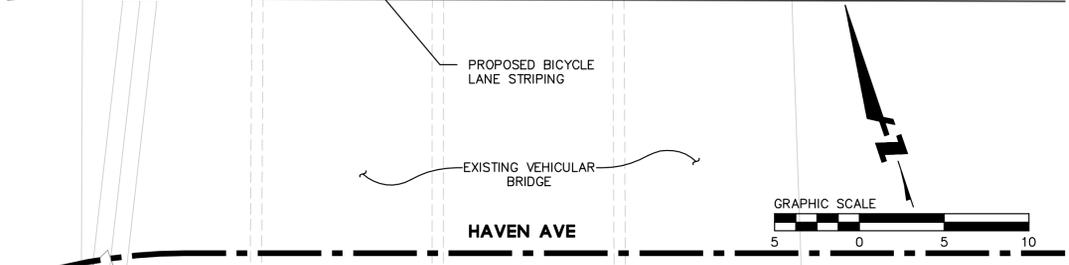
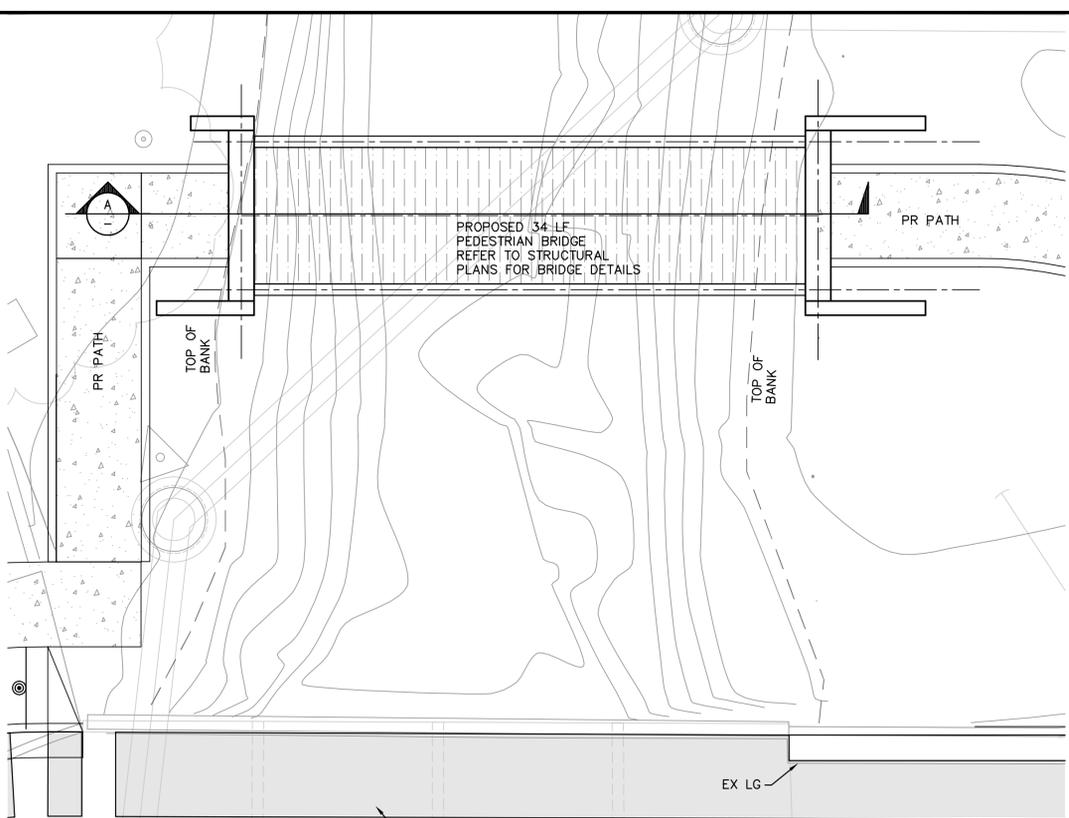
2
—
STRIPED BUFFER



- NOTES:
1. MODIFIED DETAIL 27C SHALL BE DASHED 4" WHITE LINE WITH MATCHING DASH LENGTH OF CALTRANS DETAIL 39A.
 2. GREEN BIKE LANE SHALL BE I THERM ALKYD THERMOPLASTIC OR APPROVED EQUAL.

3
—
GREEN SKIP BOXES FOR CONFLICT POINTS

Revisions	
No.	Description



RETAINING CURBS WHEN NECESSARY

PLAN

ELEVATION

SECTIONS

DRIVEWAYS

TYPE A1 CURBS

TYPE A2 CURBS

TYPE A3 CURBS

TYPE B1 CURBS

TYPE B2 CURBS

TYPE B3 CURBS

TYPE D CURBS

TYPE E CURB

TYPE H CURB

TABLE A

QUANTITIES

NOTES:

1. Case A driveway section typically applies.

2. Like Case B driveway section when ramp slopes would exceed 10% in Case A.

3. Like Case B driveway section when sidewalk cross slope would exceed 2% in Case A.

4. 3x3" D" except for curb heights over 10" where 4" D slopes shall be used on curb slope.

5. X is a variable when sidewalk is located where wheelchair path traverse the surface. Slopes shall not exceed 8.33%.

6. Sidewalk and ramp thickness "T" at driveway shall be 4" for residential and 6" for commercial.

7. Difference in slope of the driveway ramp and the slope of 6" (or 8") between the gutter and a point on the roadway shall not exceed 15% reduce curb slope, not gutter slope, where required.

8. Minimum width of clear passageway for sidewalk shall be 4'-0".

9. Retaining curbs and installation of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".

10. Across the pedestrian route of curb ramp locations, the gutter side slope shall not exceed 1" of depth for each 2'-0" of width.

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

CURBS AND DRIVEWAYS

NO SCALE

A87A

RAISED TRUNCATED DOME

DETECTABLE WARNING SURFACE

SECTION A-A

SECTION B-B

SECTION C-C

RETOFIT PAV LIMITS

DETAIL A TYPICAL TWO-RAMP CORNER INSTALLATION

DETAIL B TYPICAL ONE-RAMP CORNER INSTALLATION

NOTES:

1. As the 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 mild block locations, as site conditions dictate.

2. 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 landing may be depressed longitudinally as in Case B, or C, or may be widened as in Case D.

3. When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.

4. As the conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.

5. If located on a curve, the slope of the ramp need not be parallel, but the minimum width of the ramp shall be 4'-2".

6. Side slope of ramp flares vary uniformly from a maximum of 9.0% of curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.

7. The curb ramp shall be outlined, as shown, with a 1'-0" wide border with 1/2" grooves approximately 3/4" on center. See grooving detail.

8. Transitions from ramps and landings to walks, gutters or streets shall be flush (no lip) and free of abrupt changes.

9. Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1:12 (8%). Curb pan slope shall not exceed 1" of depth for each 2'-0" of width.

10. Curb ramps shall have a detectable warning surface that extends the full width and 2'-0" depth of the ramp. Detectable warning surface shall conform to the details on this plan and the requirements in the Standard Specifications.

11. The edge of the detectable warning surface nearest the street shall be between 8" and 24" from the gutter line.

12. Sidewalk and ramp thickness, "T", shall be 3/4" minimum.

13. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.

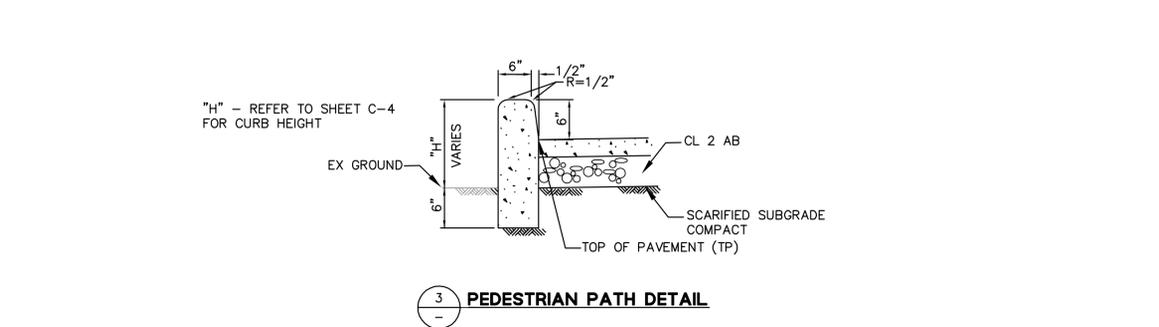
14. Detectable warning surface may have to be cut to allow removal of utility covers while maintaining full detectable warning width and depth.

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS

NO SCALE

REVISED STANDARD PLAN RSP A88A



255 SHORELINE DRIVE, STE 200
REDWOOD CITY, CA 94065
850/482-6300
650/482-6399 (FAX)



CALIFORNIA

HAVEN AVENUE AT MARSH ROAD
CONCEPTUAL ROADWAY IMPROVEMENTS
DETAILS SHEET

SAN MATEO COUNTY

MENLO PARK

CONCEPTUAL DESIGN PER MITIGATION MEASURES TR-1g AND TR-2w

Date	03/20/2015	No.	
Scale	NTS	Design	EM
Drawn	AV	Approved	
Job No	20120200-11		
Drawing Number	C-8		
	8	OF	11

