

**LEGEND:**

**A#**

BOLDFACED DESIGN STANDARD EXCEPTION FROM CALTRANS HIGHWAY DESIGN MANUAL (HDM) STANDARDS.

**C#**

UNDERLINED DESIGN STANDARD EXCEPTION FROM CALTRANS HIGHWAY DESIGN MANUAL (HDM) STANDARDS.

**DESIGN STANDARD WHERE DOCUMENTATION IS REQUIRED:**

**A1**

PROPOSED: 3.1' RIGHT SHOULDER IN THE NORTHBOUND DIRECTION, 7.8' RIGHT SHOULDER AND 9.7' LEFT SHOULDER IN THE SOUTHBOUND DIRECTION.  
  
STANDARD: HDM INDEX 302.1 - 10' LEFT AND RIGHT SHOULDERS (HDM TABLE 302.1, FREEWAY 6 OR MORE LANES.)

**A2**

PROPOSED: 3.1' RIGHT SHOULDER IN THE NORTHBOUND DIRECTION AND 9.7' LEFT SHOULDER IN THE SOUTHBOUND DIRECTION.  
  
STANDARD: HDM INDEX 309.1(3)(a) - THE MINIMUM HORIZONTAL CLEARANCE TO ALL OBJECTS... SHALL BE EQUAL TO THE STANDARD SHOULDER WIDTH OF THE HIGHWAY FACILITY AS STATED IN TABLE 302.1 (10' PER HDM TABLE 302.1, FREEWAY 6 OR MORE LANES.)

**C1**

PROPOSED: 9.7' OUTER SEPARATION BETWEEN NORTHBOUND 101 AND ARMORY DRIVE  
  
STANDARD: HDM INDEX 310.2 - OUTER SEPARATION -- THE OUTER SEPARATION SHOULD BE A MINIMUM OF 26' FROM THE EDGE OF TRAVELED WAY TO EDGE OF TRAVELED WAY.

**NOTES:**

SCALE: 1" = 50'

1. FOR ACCURATE RIGHT OF WAY, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

**CURVE DATA**

No.	R	Δ	T	L
C1	200'	01° 17' 08"	2.24'	4.49'

**PAVEMENT LEGEND:**

PROPOSED COLD PLANE AND OVERLAY

PROPOSED HMA DEEP LIFT PAVEMENT SECTION

**SECTION B-B**

**SANTA ROSA ROUTE 101 BPOC**

**GEOMETRIC DRAWINGS**

**L-1**

X

DATE PLOTTED => OCT 05 2020
TIME PLOTTED => 11:19 am

NOTES:

1. FOR DESIGN STANDARD EXCEPTION LOCATIONS, SEE DRAWING L-1

STRUCTURAL SECTION NOTES:

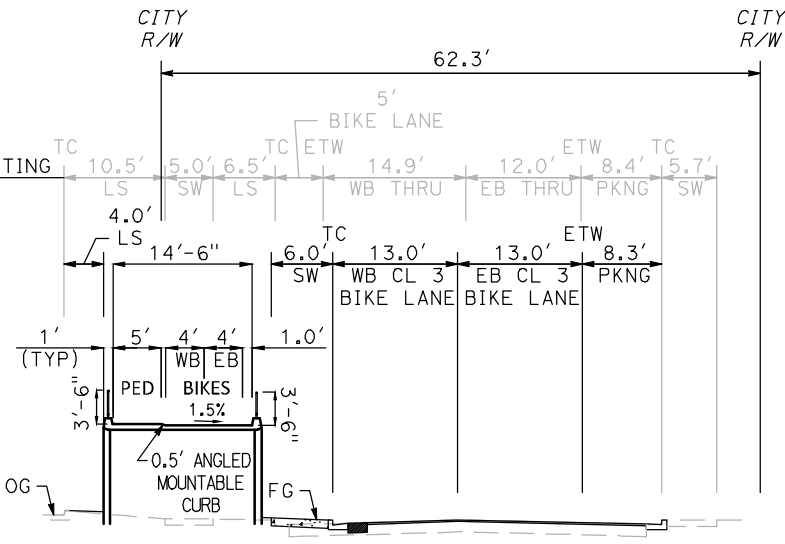
- 1

Exist  
1" OGAC  
2" & VAR AC (TYPE A) PRF  
1" AC (TYPE A) LEVELING COURSE  
8" PCC  
4" CTB (CLASS B)  
12" CI 1 AS  
24" CI 2 AS
- 2

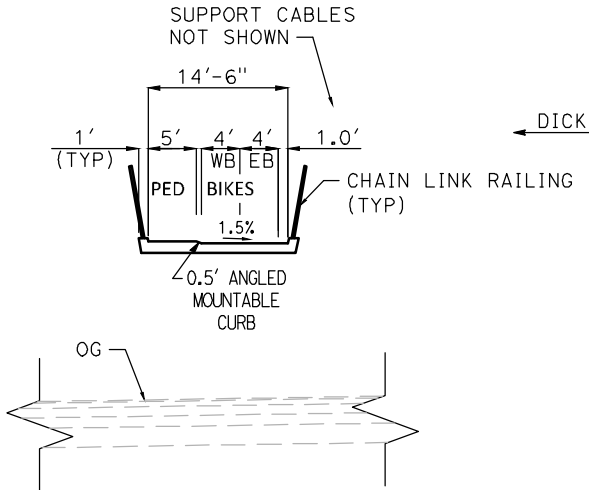
Exist  
1" OGAC  
3" & VAR AC (TYPE A)  
8" PCC  
4" CTB (CLASS B)  
12" CL 1 AS
- 3

Exist  
1" OGAC  
3" & VAR AC (TYPE A)  
6" AC (TYPE A)  
6" CTB (CLASS A)  
16" CL 4 AS
- 4

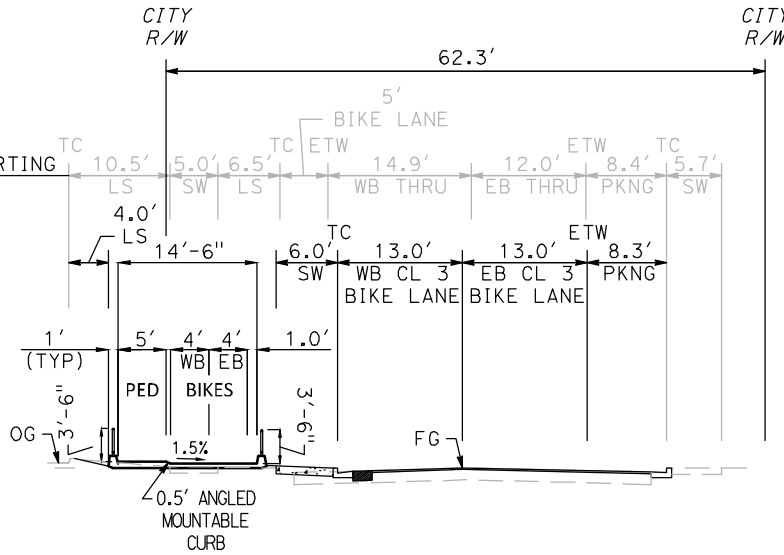
Exist  
1" OGAC  
3" & VAR AC (TYPE A)  
6" AC (TYPE A)  
7" CI 3 AB  
12" LTS



SECTION B-B

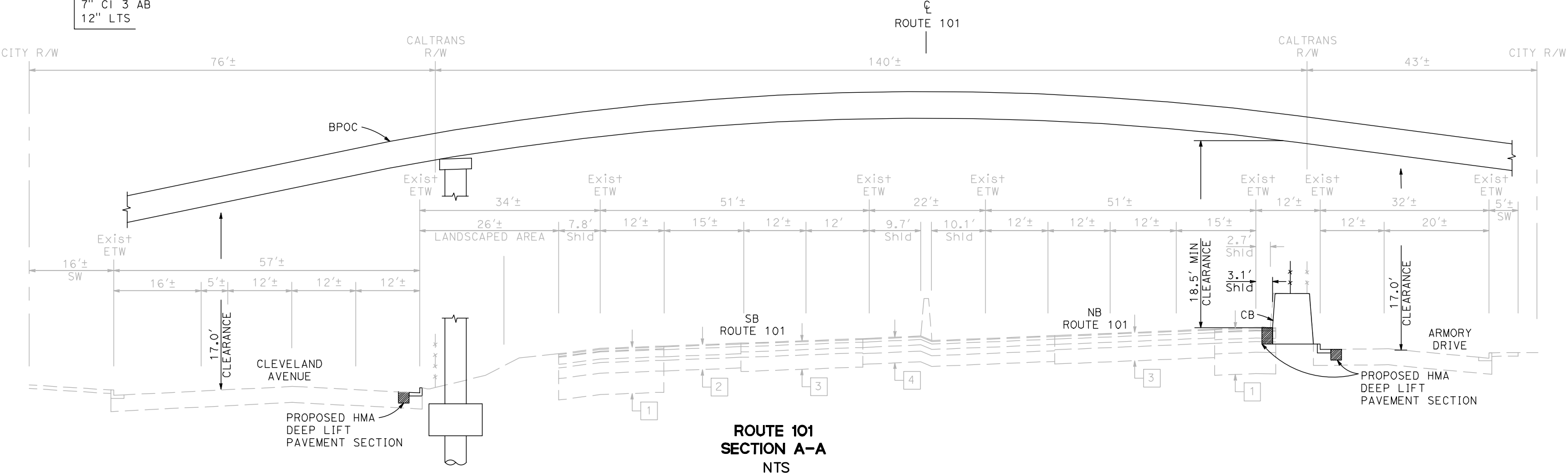


SECTION C-C



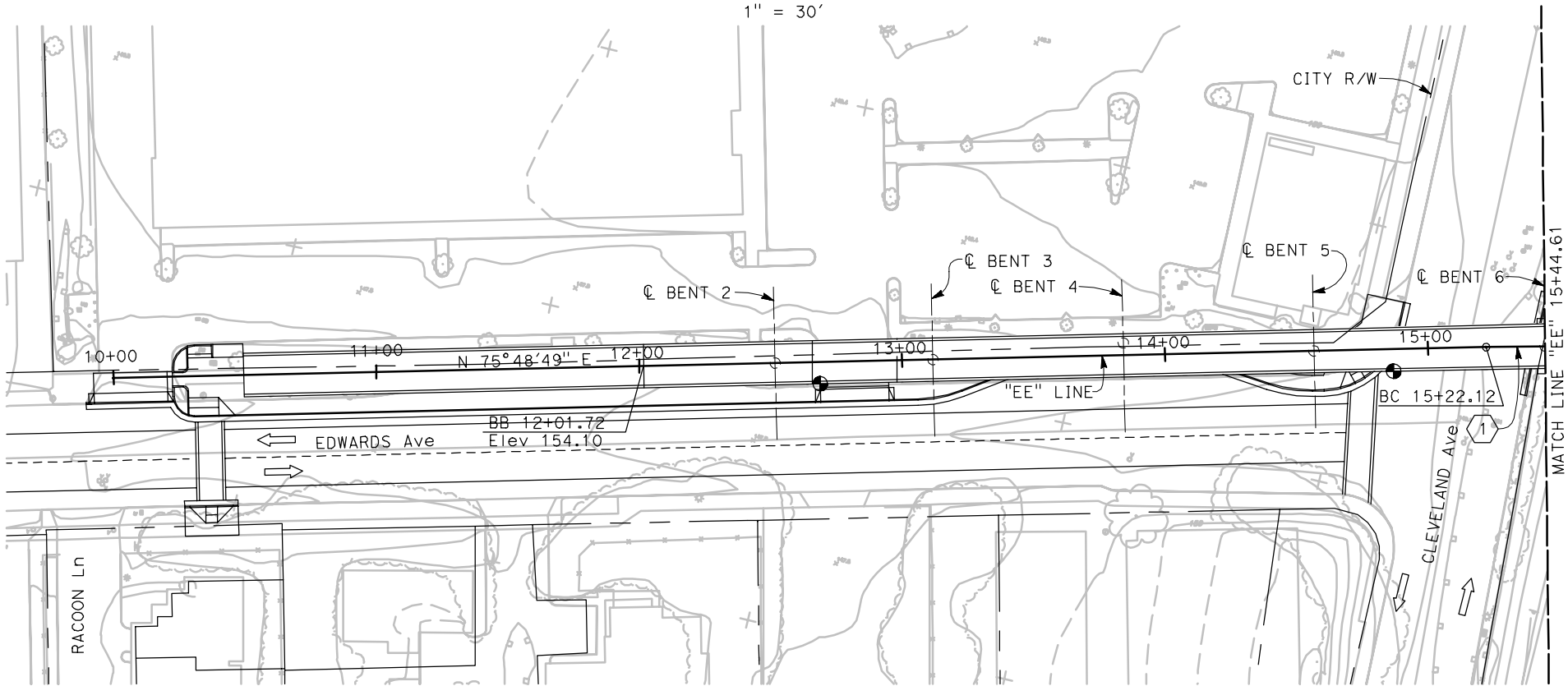
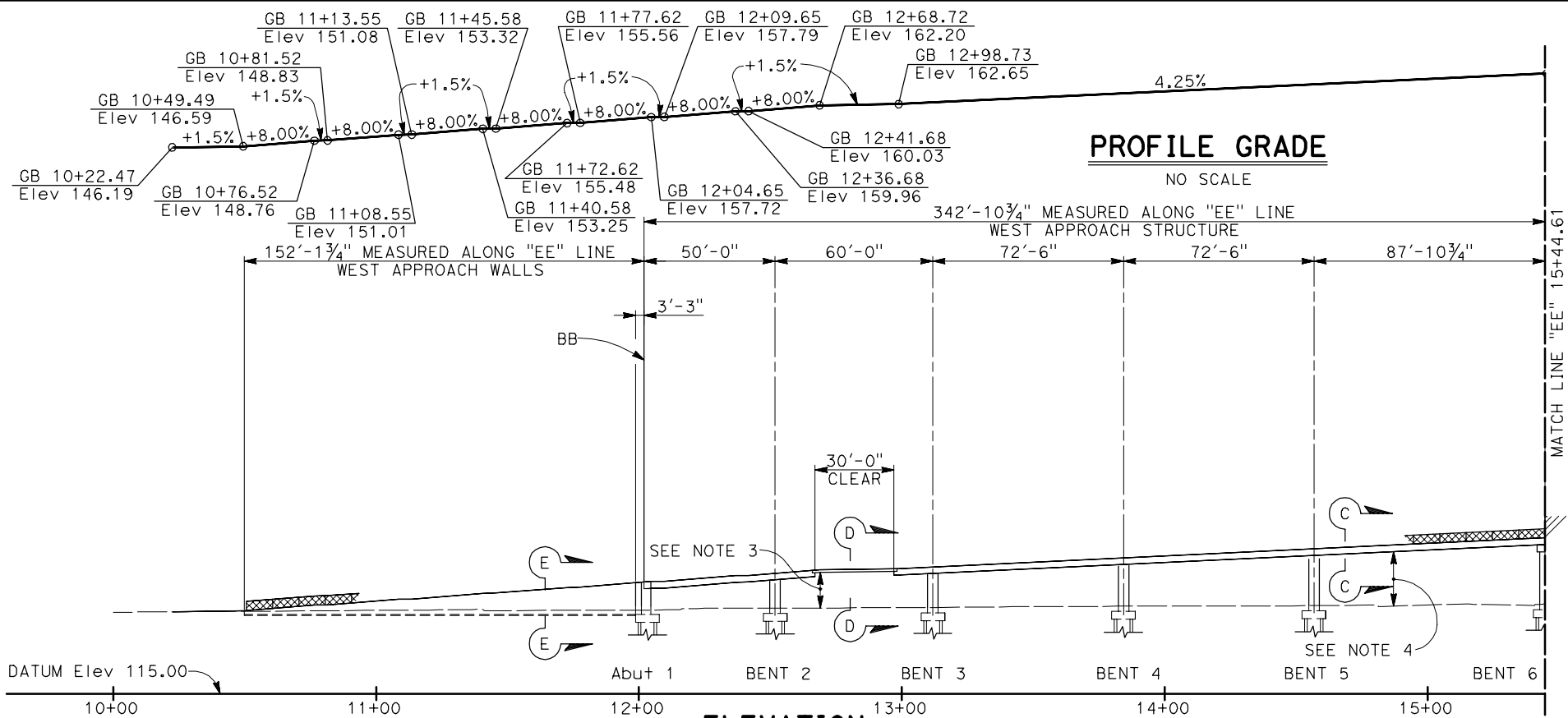
SECTION D-D

CROSS SECTIONS  
NTS



ROUTE 101  
SECTION A-A  
NTS

SANTA ROSA ROUTE 101 BPOC  
GEOMETRIC DRAWINGS  
X-1



DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT
04	Son	101	21.5
CITY OF SANTA ROSA 69 STONY CIRCLE SANTA ROSA, CA 95401			
BIGGS CARDOSA ASSOCIATES INC. 865 THE ALAMEDA SAN JOSE, CALIFORNIA 95126			

- LEGEND:
- Indicates Existing Structure
  - ➡ Indicates Traffic Direction
  - ⊙ Indicates Minimum Vertical Clearance

- NOTES:
- This plan accurate for SR 101 Bicycle and Pedestrian Bridge only.
  - For Typical Sections, see "TYPICAL SECTION" sheets.
  - 13'-6"± Min vertical clearance at driveway.  
13'-6" Min vertical clearance required.
  - 20'-8"± Min vertical clearance at driveway.  
17'-0" Min vertical clearance required.

CURVE DATA				
CURVE	R	Δ	T	L
1	1000.00'	01°17'04"	22.42'	44.83'

**WEST APPROACH WALLS**  
("EE" Sta 10+49.76 TO "EE" Sta 12+01.72)

DATE OF ESTIMATE	10/8/2020
STRUCTURE DEPTH	VARIES
LENGTH	152'-1 3/4"
WIDTH	16'-6"
WALL AREA	2114 SQ FT
COST PER SQUARE FOOT INCLUDING 10% MOBILIZATION AND 20% CONTINGENCY	\$182/SQ FT
TOTAL COST	\$385,000

**WEST APPROACH STRUCTURE**  
("EE" Sta 12+01.72 TO "EE" Sta 15+44.62)

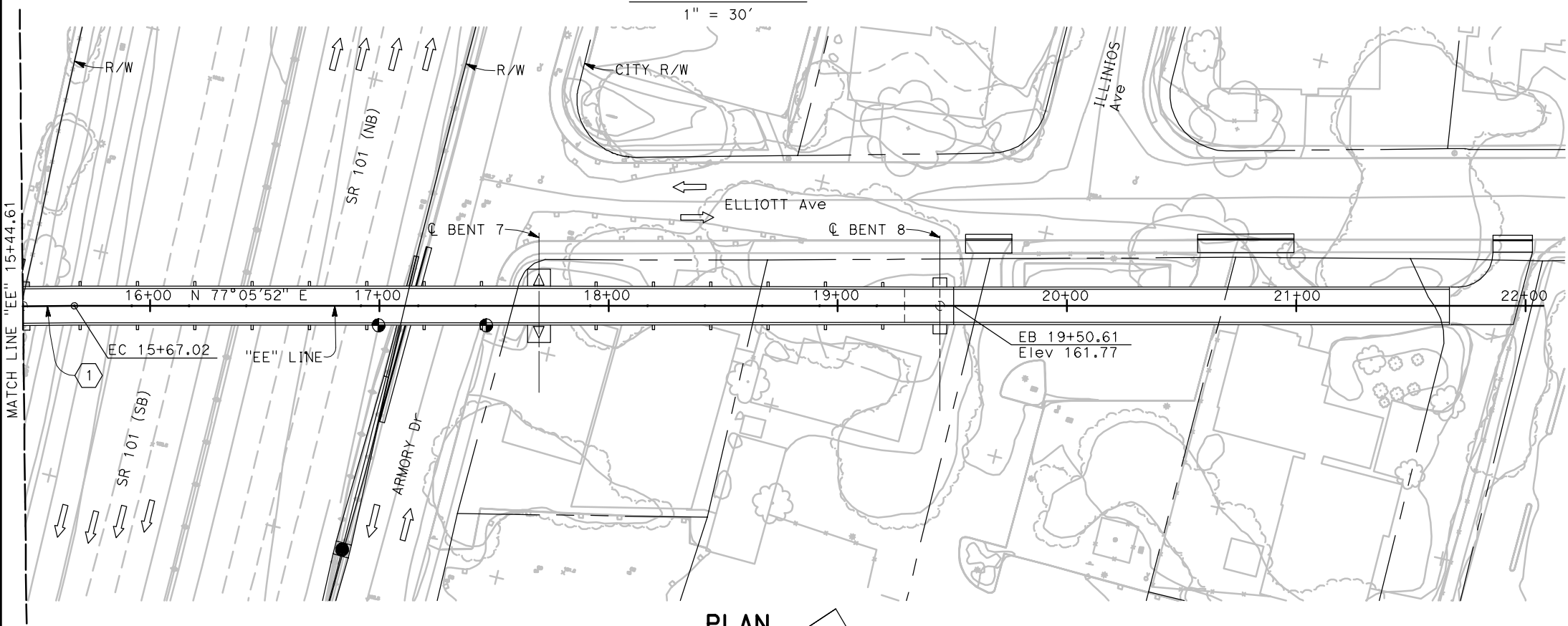
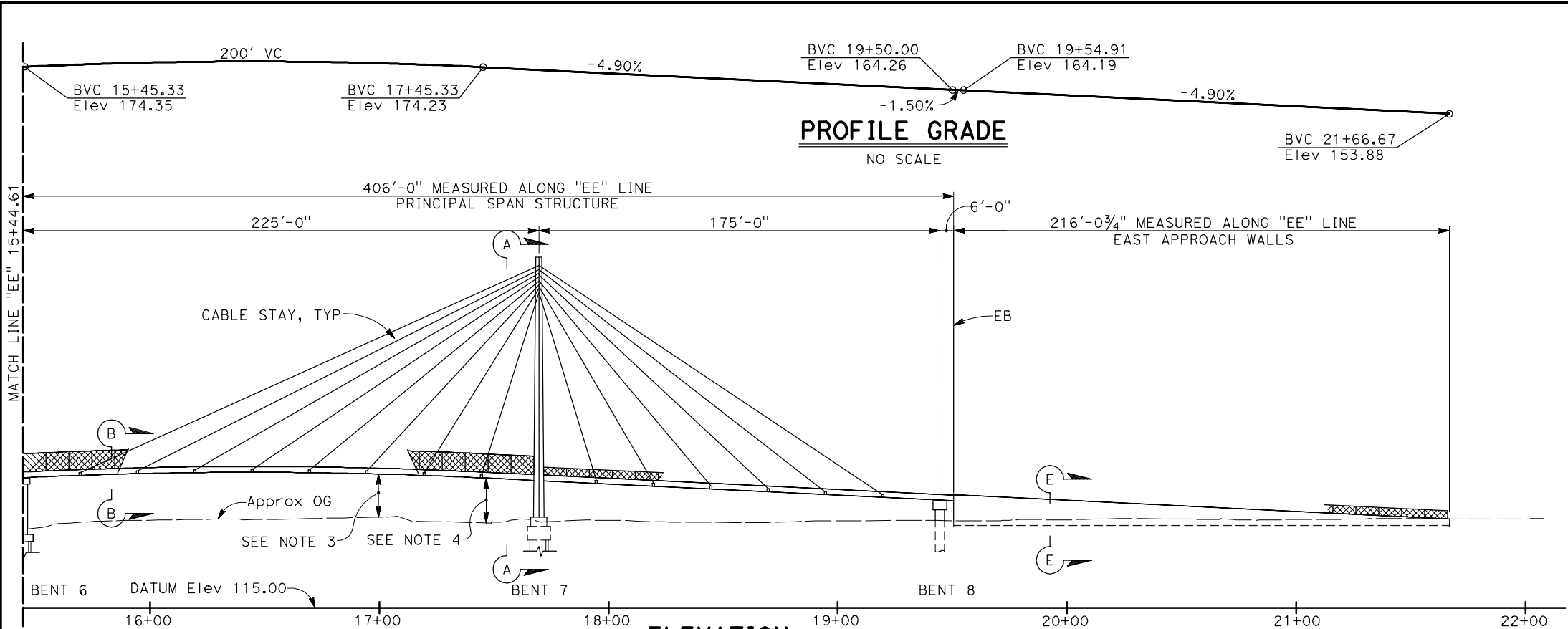
DATE OF ESTIMATE	10/8/2020
STRUCTURE DEPTH	VARIES
LENGTH	342'-10 3/4"
WIDTH	16'-6"
DECK AREA	5681 SQ FT
COST PER SQUARE FOOT INCLUDING 10% MOBILIZATION AND 20% CONTINGENCY	\$611/SQ FT
TOTAL COST	\$3,470,000

**EDWARDS-ELLIOTT ALTERNATIVE**

DESIGNED BY J. FUNG	DATE 3/5/20
DRAWN BY S. HICKEY	DATE 3/5/20
CHECKED BY A. NOTARO	DATE 3/5/20
APPROVED	DATE

ANTHONY NOTARO PROJECT ENGINEER	ADVANCE PLANNING STUDY S-1	
	GENERAL PLAN No. 1	
	BRIDGE NO.	UNIT:
SCALE: AS NOTED		PROJECT NUMBER & PHASE:

DESIGN OVERSIGHT
SIGN OFF DATE



PLAN

1" = 30'



- LEGEND:
- Indicates Existing Structure
  - ➡ Indicates Traffic Direction
  - Indicates Minimum Vertical Clearance

- NOTES:
- This plan accurate for SR 101 Bicycle and Pedestrian Bridge only.
  - For Typical Sections, see "TYPICAL SECTION" sheets.
  - 18'-10"± Min vertical clearance at driveway. 18'-6" Min vertical clearance required.
  - 19'-7"± Min vertical clearance at driveway. 17'-0" Min vertical clearance required.

CURVE DATA				
CURVE	R	Δ	T	L
1	1000.00'	01°17'04"	22.42'	44.83'

### PRINCIPAL SPAN STRUCTURE ("EE" Sta 15+44.62 TO "EE" Sta 19+50.61)

DATE OF ESTIMATE	10/8/2020
STRUCTURE DEPTH	2'-6"
LENGTH	406'-0"
WIDTH	16'-6"
DECK AREA	6,699 SQ FT
COST PER SQUARE FOOT INCLUDING 10% MOBILIZATION AND 20% CONTIGENCY	\$1,144/SQ FT
TOTAL COST	\$7,665,000

### EAST APPROACH WALLS ("EE" Sta 19+50.61 TO "EE" Sta 21+68.57)

DATE OF ESTIMATE	10/8/2020
STRUCTURE DEPTH	VARIES
LENGTH	216'-0 3/4"
WIDTH	16'-6"
WALL AREA	3564 SQ FT
COST PER SQUARE FOOT INCLUDING 10% MOBILIZATION AND 20% CONTIGENCY	\$182/SQ FT
TOTAL COST	\$650,000

### EDWARDS-ELLIOTT ALTERNATIVE

#### ADVANCE PLANNING STUDY S-2

#### GENERAL PLAN No. 2

BRIDGE NO.	UNIT:
SCALE: AS NOTED	PROJECT NUMBER & PHASE:

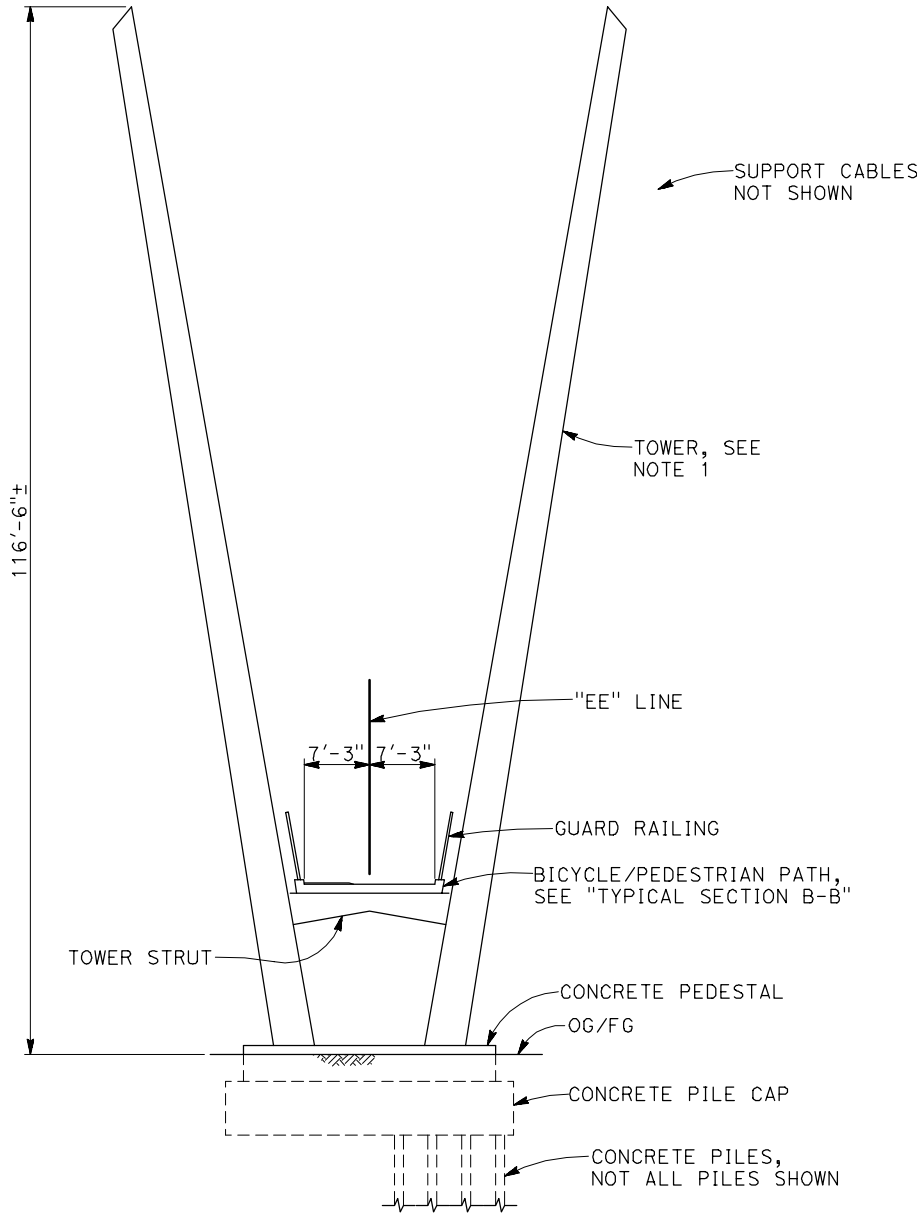
DESIGNED BY J. FUNG	DATE 3/5/20
DRAWN BY S. HICKEY	DATE 3/5/20
CHECKED BY A. NOTARO	DATE 3/5/20
APPROVED	DATE

ANTHONY NOTARO  
PROJECT ENGINEER

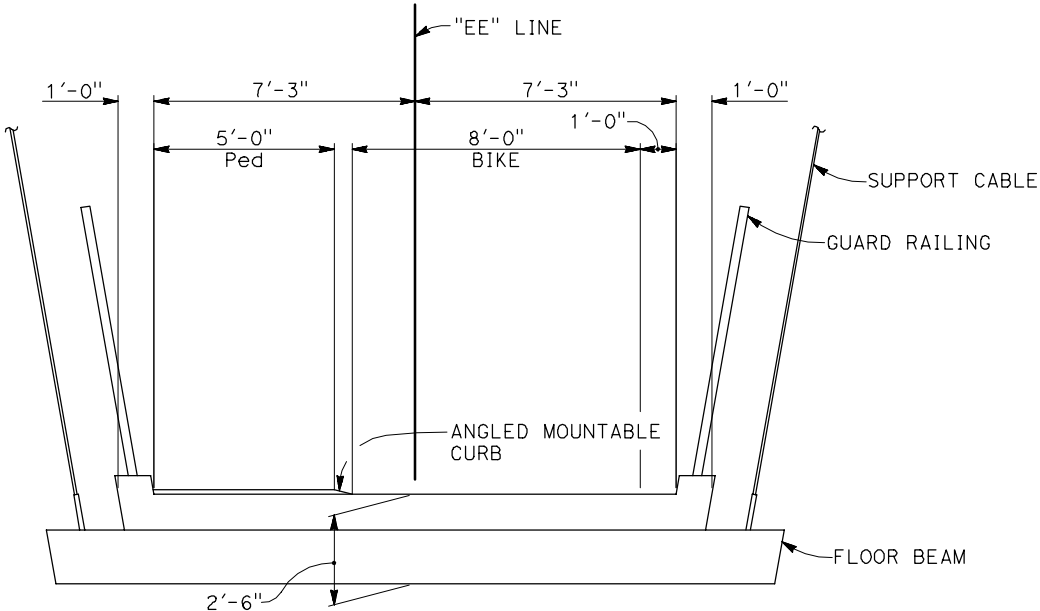
DESIGN OVERSIGHT
SIGN OFF DATE

NOTE:  
1. ALTERNATE TOWER CONFIGURATIONS, INCLUDING SINGLE TOWER OPTIONS, WILL BE STUDIED PER REQUEST OF SANTA ROSA DESIGN REVIEW BOARD.

DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT
04	Son	101	21.5
CITY OF SANTA ROSA 69 STONY CIRCLE SANTA ROSA, CA 95401			
BIGGS CARDOSA ASSOCIATES INC. 865 THE ALAMEDA SAN JOSE, CALIFORNIA 95126			



PRINCIPAL SPAN TOWER  
**TYPICAL SECTION A-A**  
 $\frac{3}{32}'' = 1'-0''$



PRINCIPAL SPAN STRUCTURE  
**TYPICAL SECTION B-B**  
 $\frac{3}{8}'' = 1'-0''$

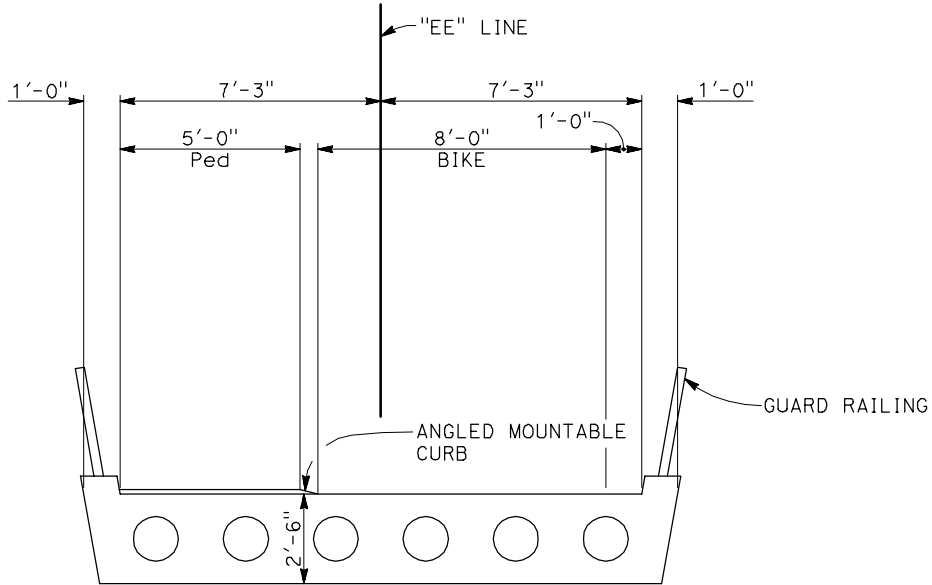
DESIGNED BY J. FUNG	DATE 3/5/20
DRAWN BY S. HICKEY	DATE 3/5/20
CHECKED BY A. NOTARO	DATE 3/5/20
APPROVED	DATE

ANTHONY NOTARO PROJECT ENGINEER
------------------------------------

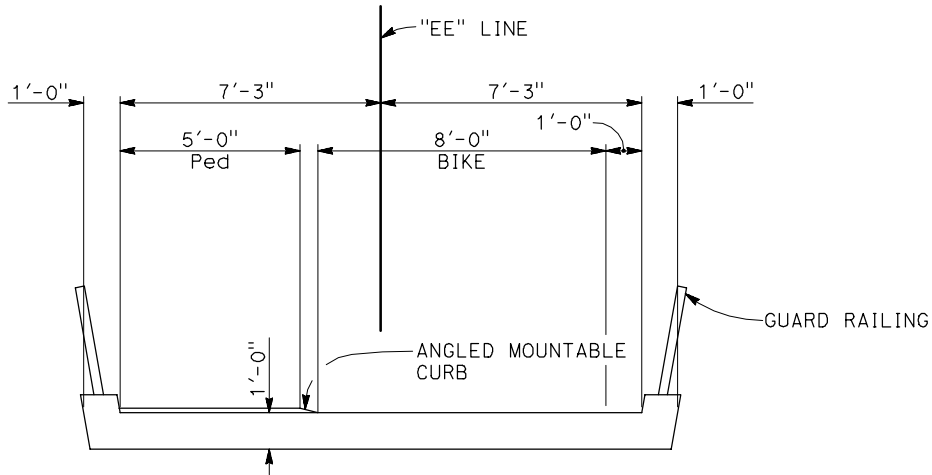
ADVANCE PLANNING STUDY S-3	
TYPICAL SECTION No. 1	
BRIDGE NO.	UNIT:
SCALE: AS NOTED	PROJECT NUMBER & PHASE:

DESIGN OVERSIGHT
SIGN OFF DATE

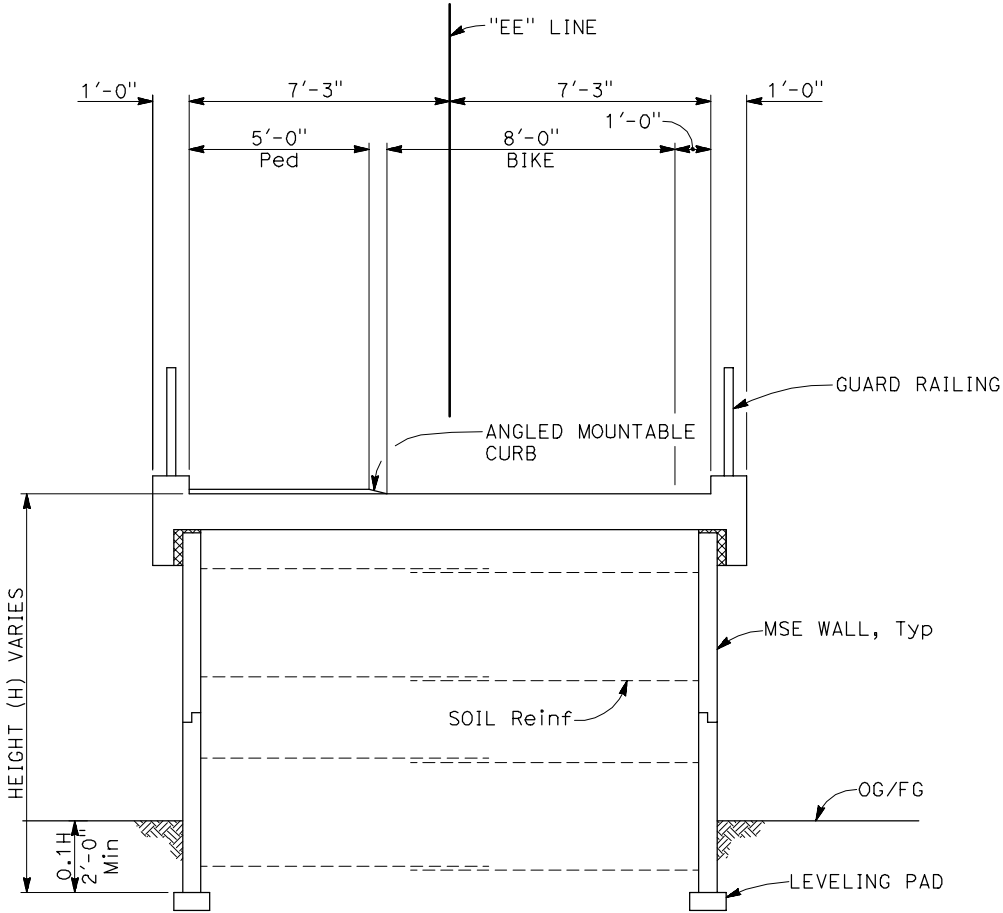
DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT
04	Son	101	21.5
CITY OF SANTA ROSA 69 STONY CIRCLE SANTA ROSA, CA 95401			
BIGGS CARDOSA ASSOCIATES INC. 865 THE ALAMEDA SAN JOSE, CALIFORNIA 95126			



WEST APPROACH STRUCTURE  
**TYPICAL SECTION C-C**  
 $\frac{3}{8}'' = 1'-0''$



WEST APPROACH DROP SPAN  
**TYPICAL SECTION D-D**  
 $\frac{3}{8}'' = 1'-0''$



MSE WALLS  
**TYPICAL SECTION E-E**  
 $\frac{3}{8}'' = 1'-0''$

DESIGNED BY J. FUNG	DATE 3/5/20	ANTHONY NOTARO PROJECT ENGINEER	ADVANCE PLANNING STUDY S-4	
DRAWN BY S. HICKEY	DATE 3/5/20		TYPICAL SECTION No. 2	
CHECKED BY A. NOTARO	DATE 3/5/20		BRIDGE NO.	UNIT:
APPROVED	DATE		SCALE: AS NOTED	PROJECT NUMBER & PHASE:

DESIGN OVERSIGHT
SIGN OFF DATE