

## **County of Orange**



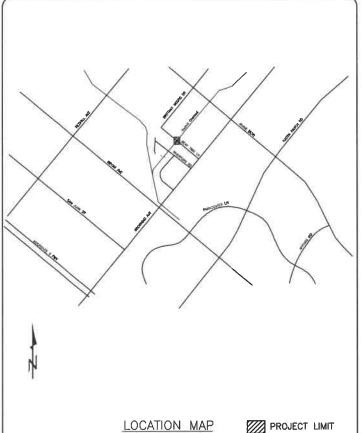
SANTA ANA, CALIFORNIA
SHANE L. SILSBY, DIRECTOR
PLANS FOR CONSTRUCTION OF

# BENT TWIG LANE BRIDGE OVER REDHILL CHANNEL BRIDGE PREVENTATIVE MAINTENANCE

BR. No. 55C0574

W.O. NO. ER 20567 AUGUST 2019

FUNDED BY: SENATE BILL 1(SB-1)
MAINTAINED BY: COUNTY OF ORANGE



#### 2015 CALTRANS STANDARD PLANS

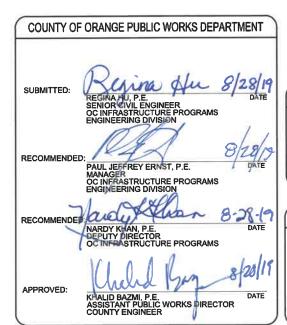
A3A ABBREVIATIONS (SHEET 1 OF 3)
A3B ABBREVIATIONS (SHEET 2 OF 3)
A3C ABBREVIATIONS (SHEET 3 OF 3)

#### GENERAL NOTES:

CONTACT DIGALERT AT 1(800)422-4133 BEFORE REGINNING WORK

ALL NATIVE BIRDS ARE PROTECTED FROM DISTURBANCE WHILE NESTING. AS FAR AS POSSIBLE, CONSTRUCTION ACTIVITIES SHOULD TAKE PLACE OUTSIDE OF THE BIRD NESTING SEASON (FEBRUARY 1ST THROUGH SEPTEMBER 15TH). HOWEVER, IF OTHER RESTRICTIONS MAKE IT IMPOSSIBLE TO AVOID THE NESTING SEASON, THE REGULATORY PERMITTING TEAM AT OCPW MUST BE CONTACTED AT (714) 647-3933 TO ARRANGE FOR PRE-CONSTRUCTION NESTING BIRD SURVEYS OF THE CONSTRUCTION AREAS AT LEAST 7 DAYS BEFORE THE START OF WORK. DISTURBANCE TO ANY ACTIVE NESTS MUST BE AVOIDED. CONSTRUCTION ACTIVITY WITHIN 300 FEET OF AN ACTIVE NEST [500 FEET FOR RAPTORS] SHOULD BE DELAYED UNTIL THE NEST IS NO LONGER ACTIVE, OR OTHERWISE APPROVED BY THE REGULATORY PERMITTING TEAM OR THEIR REPRESENTATIVE.

ANY CRACKS OR CREVICES, VOIDS OR HOLES IN BRIDGES, TREES, BUILDINGS OR OTHER STRUCTURES HAVE THE POTENTIAL TO SUPPORT ROOSTING BATS. THE REGULATORY PERMITTING TEAM MUST BE CONTACTED AT (714) 647-3933 AT LEAST 7 DAYS BEFORE THE START OF WORK TO CONDUCT A BAT SURVEY.



### RECORD DRAWING

CONTRACTOR:

RESIDENT ENGINEER:

INSPECTOR:

CONSTRUCTION START DATE:

CONSTRUCTION COMPLETION DATE:

#### PREPARED BY

PREPARED UNDER RESPONSIBLE CHARGE OF:
NCM ENGINEERING CORP.
22362 GILBERTO
RANCHO SANTA MARGARITA, CA 92688

NO. DESCRIPTION SHT. APPROVED DATE

R E VISIONS

INDEX OF SHEETS

DESCRIPTION

TITLE SHEET

GENERAL PLAN

MISCELLANEOUS DETAILS

SPALL & CRACK REPAIR DETAILS

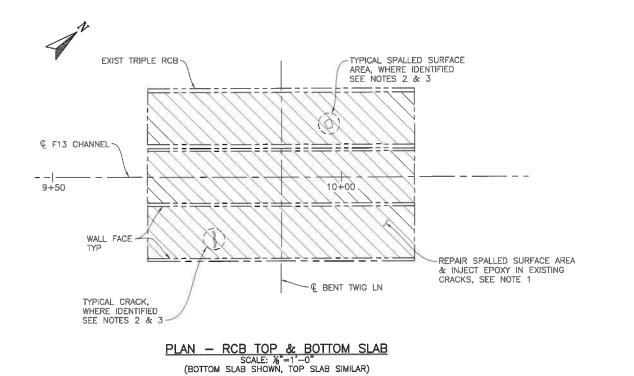
SHEET REF

2 S1

\$2

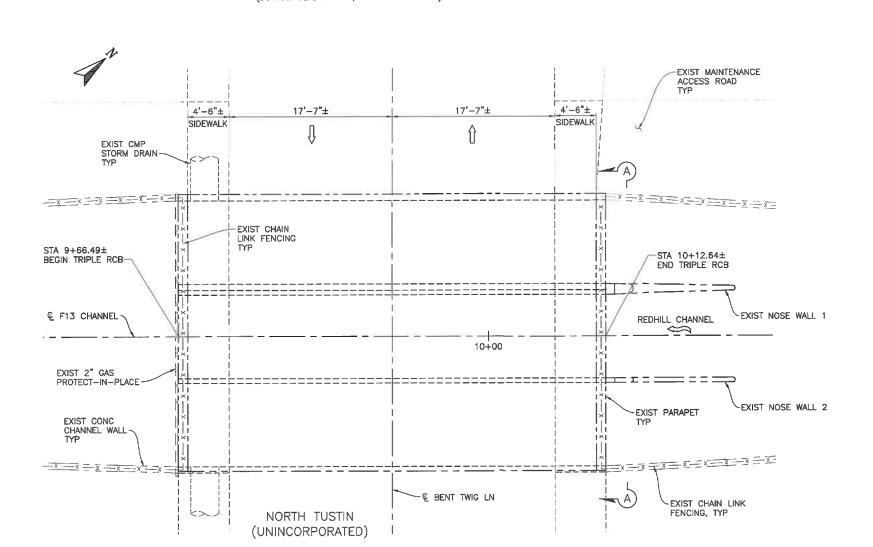
S3

W. O. NO. <u>ER 20567</u> DWG. NO. <u>T1</u> SHEET 1 OF 4



REPAIR SPALLED SURFACE AREA & INJECT EPOXY IN EXISTING EXIST CHAIN TOP OF RCB CRACKS, SEE NOTES 1, 2 & 3 LINK FENCING: € F13 CHANNEL~ (BEYOND) TOP OF PARAPET -EXIST CHANNEL WALL NOT SHOWN, TYP EXIST CMP STORM DRAIN (BEYOND), TYP 1'-2"± REPAIR SPALLED SURFACE AREA & INJECT EPOXY IN EXISTING CRACKS, SEE NOTES 1, 2 & 3 TRIPLE RCB-6"± EXIST NOSE WALL NOT SHOWN, TYP 29'-10"±

VIEW A-A
SCALE: ¼"=1'-0"
(UPSTREAM END ONLY)



#### NOTES

- REPAIR SPALLED SURFACE AREAS AND INJECT EPOXY IN EXISTING CRACKS WITHIN THE LIMITS OF EXISTING BOX CULVERT TOP AND BOTTOM INSIDE FACE, AND PARAPET.
- FINAL LIMITS OF REPAIR SPALLED SURFACE AREA AND INJECT CRACK (EPOXY) TO BE ESTABLISHED DURING CONSTRUCTION.
- FOR SPALL REPAIR DETAILS AND CRACKING INJECTION DETAILS, SEE SHEET S3.
- 4. PROVIDE TRAFFIC CONTROL PER SPECIFICATION F-3.
- PREPARE AND EXECUTE THE REQUIREMENTS OF AN EROSION, SEDIMENT AND CHEMICAL CONTROL PLAN (ESCCP) PER SPECIFICATION ON F-4.

#### **LEGEND**

LIMITS OF EXISTING CONCRETE BOX CULVERT TOP & BOTTOM INSIDE FACE

LIMITS OF EXISTING CONCRETE BOX CULVERT WALL FACE

LIMITS OF EXISTING CONCRETE BOX CULVERT PARAPET

---- INDICATES EXISTING

DIRECTION OF FLOW

DIRECTION OF TRAFFIC

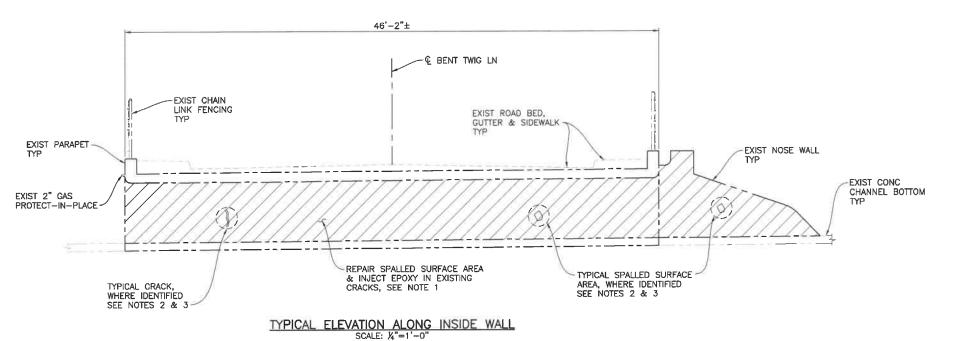
#### QUANTITIES

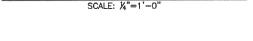
Sheet 2 of 4

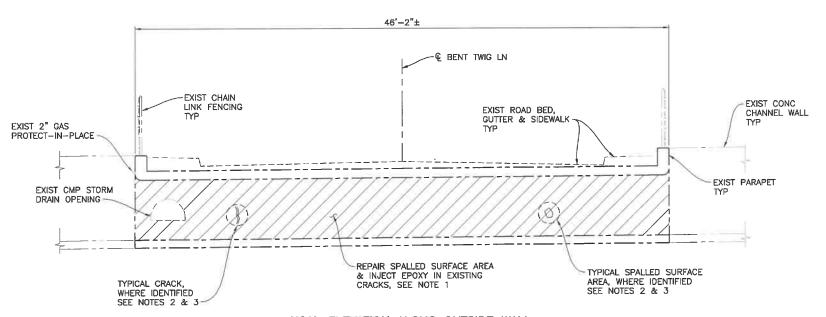
ORANGE WORKS COUNTY OF ( NCM E 22362 RANCI CALIF PLAN GENERAL Reference Number **S1** 

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PLAN SCALE: 1"=:







TYPICAL ELEVATION ALONG OUTSIDE WALL SCALE: 1/2"=1'-0"

#### NOTES:

- REPAIR SPALLED SURFACE AREAS AND INJECT EPOXY IN EXISTING CRACKS WITHIN THE LIMITS OF EXISTING BOX CULVERT WALL FACES AND NOSE WALLS.
- FINAL LIMITS OF REPAIR SPALLED SURFACE AREA AND INJECT CRACK (EPOXY) TO BE ESTABLISHED DURING CONSTRUCTION.
- FOR SPALL REPAIR DETAILS AND CRACKING INJECTION DETAILS, SEE SHEET S3.

#### **LEGEND**



LIMITS OF EXISTING CONCRETE BOX CULVERT WALL FACE & NOSE WALL

---- INDICATES EXISTING





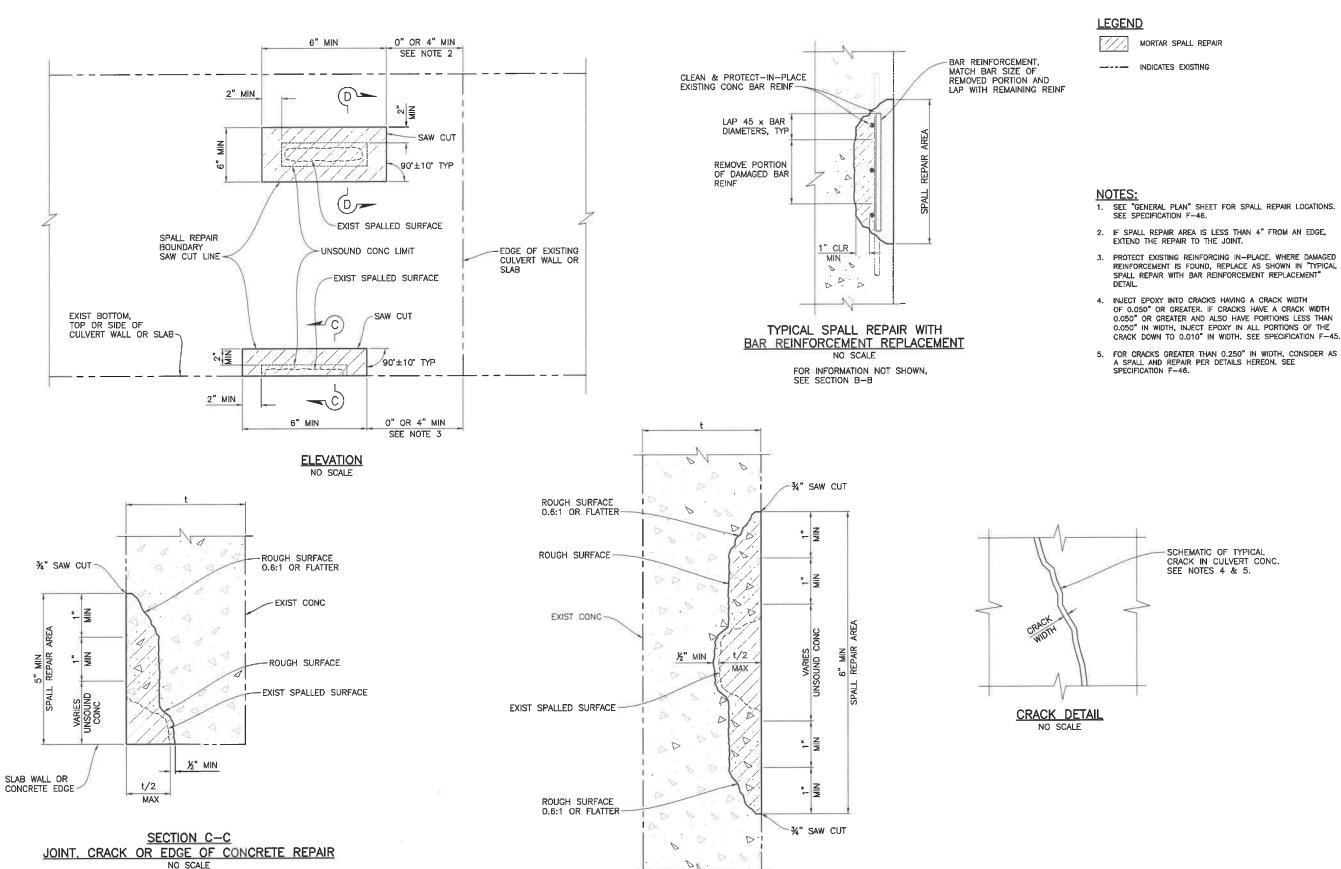


-	DESIGNED BY:	
S G	OF ORANGE M. SILLER SLIC WORKS DRAWN BY: CHECKED BY	HECKED BY
	R. ANDRASEK	
	NEERING CORP. DRAWING CODE:	ij
¥	SERTO ANTA MARGARITA 63 BENT TWIG LN.DWG 1A, 92688	LN.DWG

MISCELLANEOUS DETAILS

Reference Number

Sheet 3 of 4



SECTION D-D MISCELLANEOUS SPALL REPAIR NO SCALE





-		1				_
	M. STILLER	CHECKED BY		DRAWING CODE:	3 LN.DWG	SCALE:
DESIGNED BY:		DRAWN BY: CHECKED BY	R. ANDRASEK		FILE NAME: 04 BENT TWIC	PLOT DATE: SCALE:
	COUNTY OF ORANGE M. STILLER	OC PUBLIC WORKS		NCM ENGINEERING CORP. DRAWING CODE:	PANCHO SANTA MARGARITA FILE NAME:	CALIFORNIA, 92688

SPALL & CRACK REPAIR DETAILS

Reference Number

**S**3

Sheet 4 of 4

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.