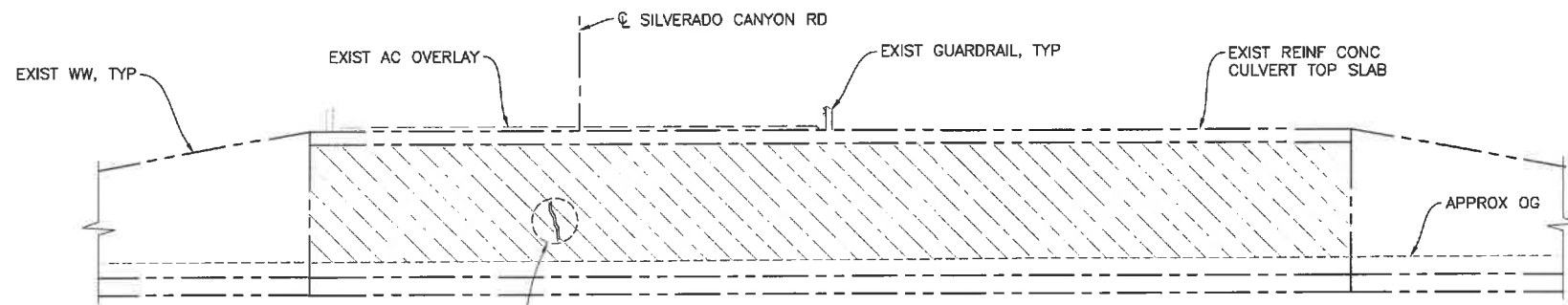
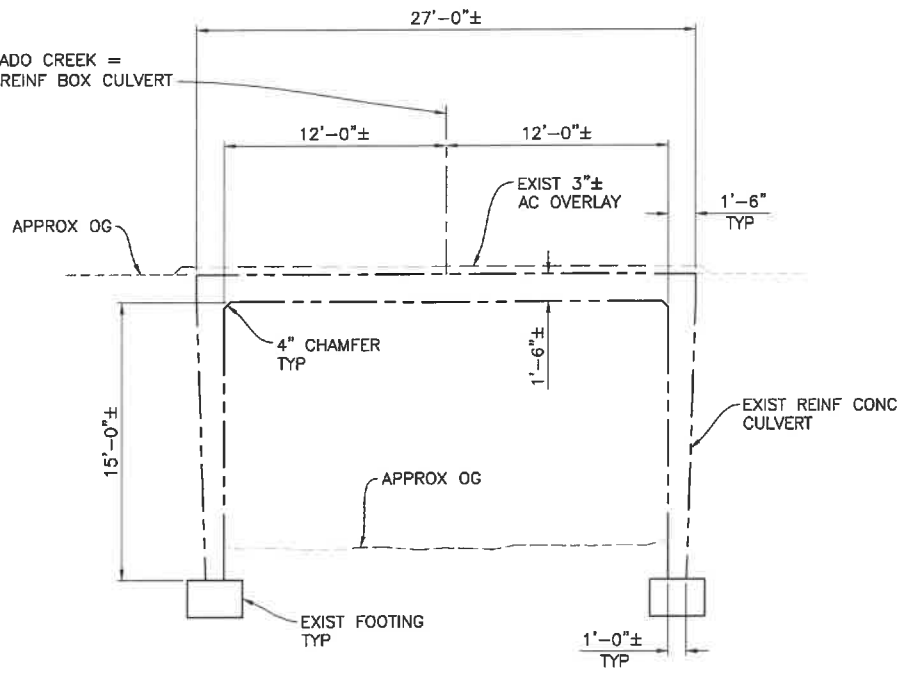
 PROJECT LIMIT

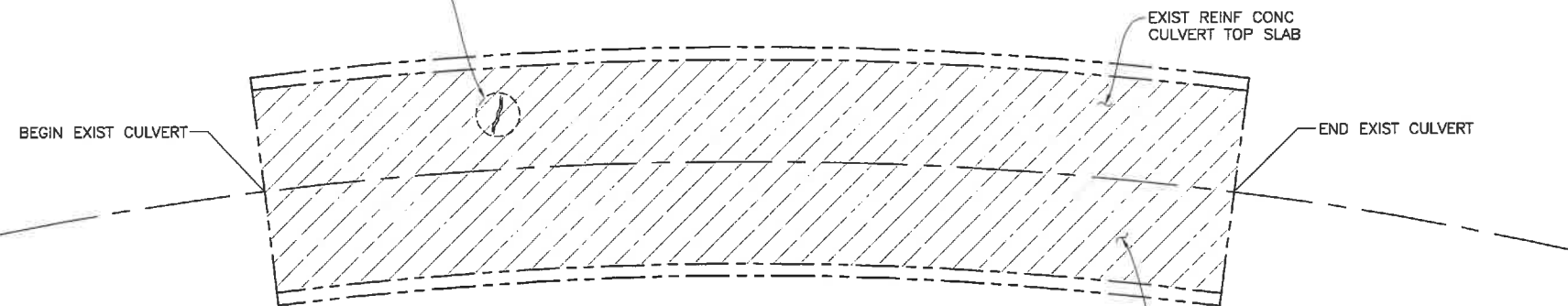
SHEET 1 OF 3



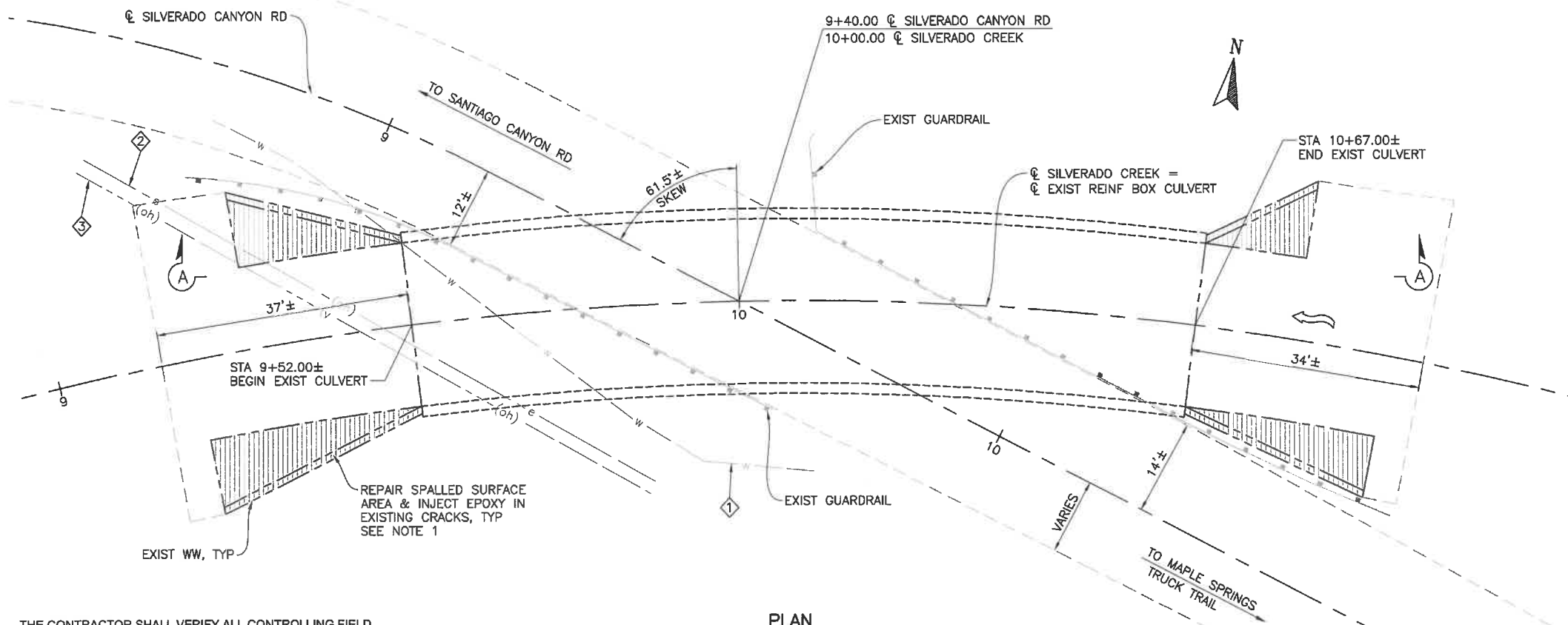
VIEW A-A (DEVELOPED)
SCALE: 1"=10'
(LEFT WALL FACE SHOWN, RIGHT WALL FACE SIMILAR)



TYPICAL SECTION
SCALE: 1"=5'
(SHOWN @ STA 10+02)



MIRRORED TOP SLAB SOFFIT VIEW
SCALE: 1"=10'



PLAN
SCALE: 1"=10'

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

LEGEND

- LIMITS OF EXISTING REINF CONCRETE CULVERT TOP SLAB INVERT
- LIMITS OF EXISTING REINF CONCRETE CULVERT WALL FACE
- LIMITS OF EXISTING REINF CONCRETE CULVERT WINGWALL
- INDICATES EXISTING
- DIRECTION OF FLOW

NOTES:

1. REPAIR SPALLED SURFACES AND INJECT EPOXY IN EXISTING CRACKS WITHIN LIMITS OF EXISTING REINFORCED CONCRETE CULVERT TOP SLAB INVERT, WALL FACE AND WINGWALL. FINAL LIMITS OF INJECT CRACK (EPOXY) AND REPAIR SPALLED AREA TO BE ESTABLISHED DURING CONSTRUCTION.
2. FOR SPALL REPAIR DETAILS AND CRACK INJECTION DETAILS, SEE SHEET S2.
3. PROTECT-IN-PLACE EXISTING UTILITIES.
4. PROVIDE TRAFFIC CONTROL PER SPECIFICATION F-3.
5. PREPARE AND EXECUTE THE REQUIREMENTS OF AN EROSION, SEDIMENT AND CHEMICAL CONTROL PLAN (ESCCP) PER SPECIFICATION ON F-4.

QUANTITIES

ITEM	QUANTITY
INJECT CRACK (EPOXY)	150 LF
REPAIR SPALLED SURFACE AREA	15 LF

UTILITIES

- ① 8" WATERLINE (IRVINE RANCH WATER DISTRICT)
- ② OVERHEAD ELECTRIC (SCE)
- ③ OVERHEAD COMMUNICATIONS



MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

CIVIL ENGINEER * VINCENZO

MARK STILLER

No. C 78935

Exp. 6/30/20

STATE OF CALIFORNIA

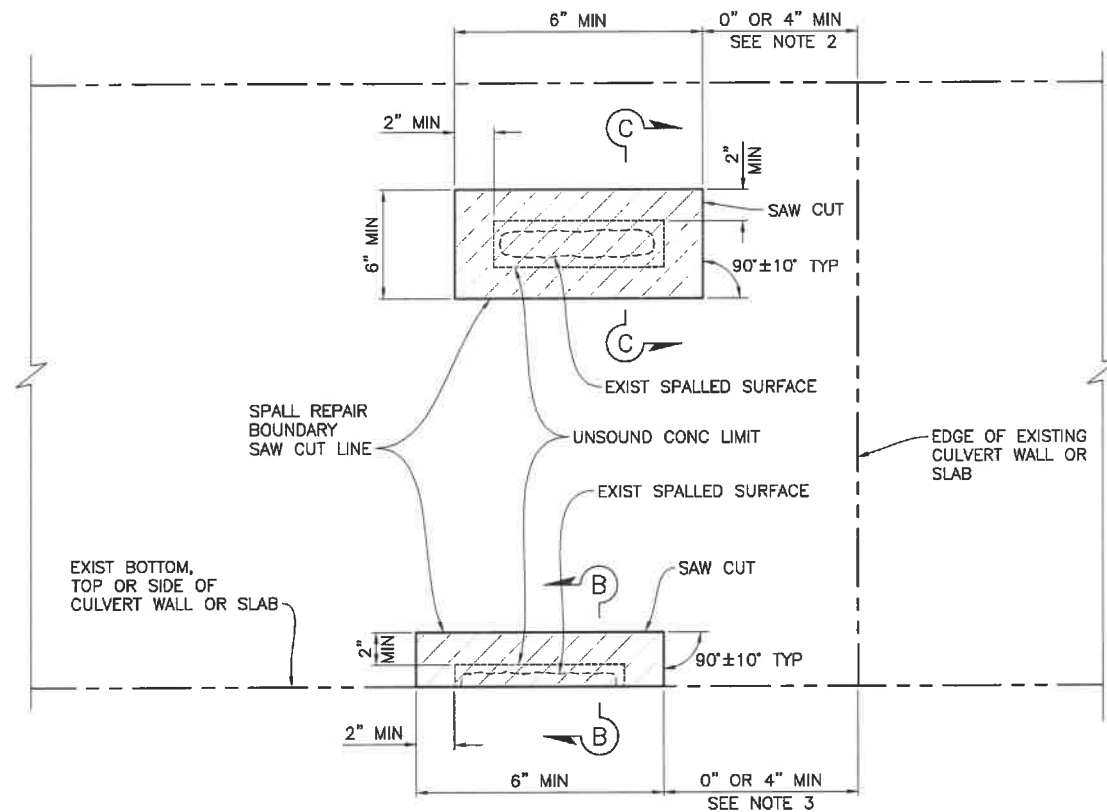
8/21/19

DATE

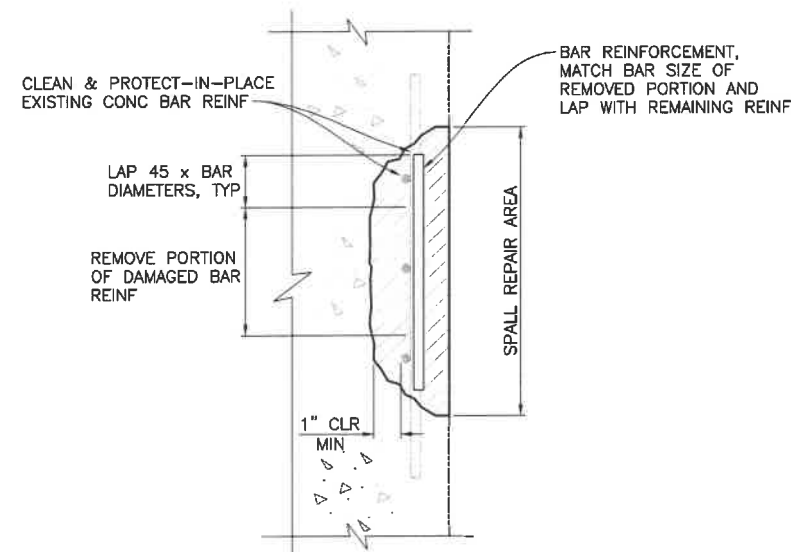
DESIGNED BY:	CHECKED BY:
M. STILLER	R. ANDRASEK
DRAWN BY:	DRAWING CODE:
COUNTY OF ORANGE	OC PUBLIC WORKS
FILE NAME:	02 SILVERADO 0180.DWG
PLOT DATE:	8/21/19
SCALE:	AS SHOWN

SILVERADO CANYON RD OVER SILVERADO CANYON CREEK PREVENTATIVE MAINTENANCE Br. No. 55C0180	GENERAL PLAN
--	--------------

Sheet Reference Number
S1
Sheet 2 of 3



ELEVATION
NO SCALE



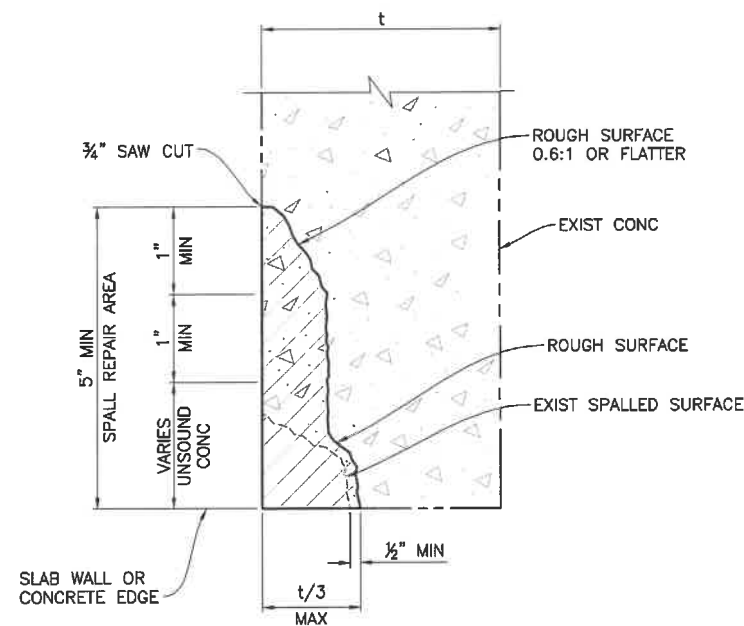
**TYPICAL SPALL REPAIR WITH
BAR REINFORCEMENT REPLACEMENT**
NO SCALE
FOR INFORMATION NOT SHOWN,
SEE SECTION B-B

LEGEND

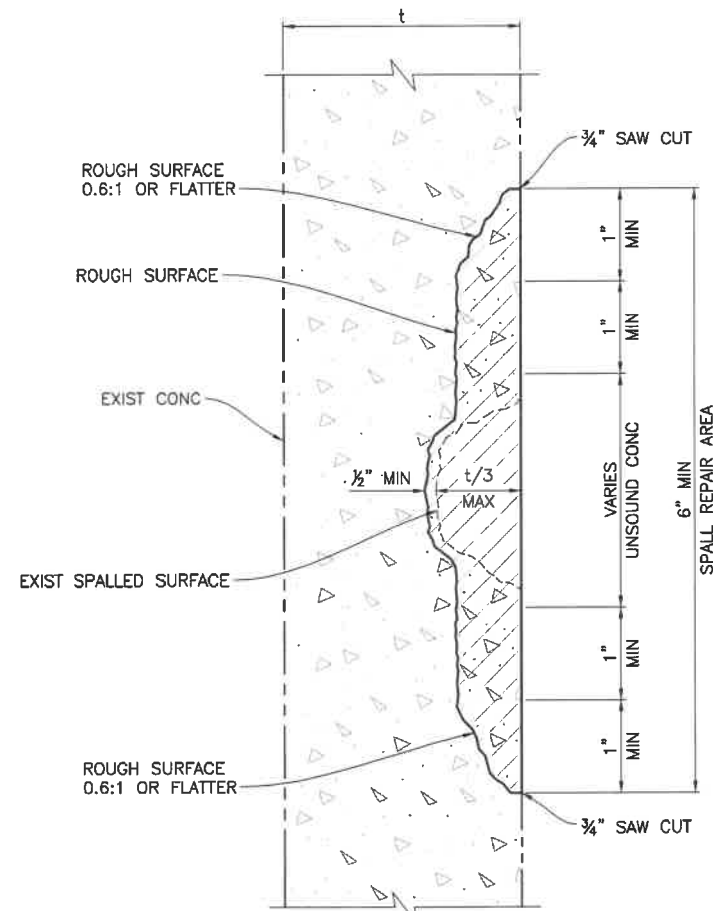
- MORTAR SPALL REPAIR
- INDICATES EXISTING

NOTES:

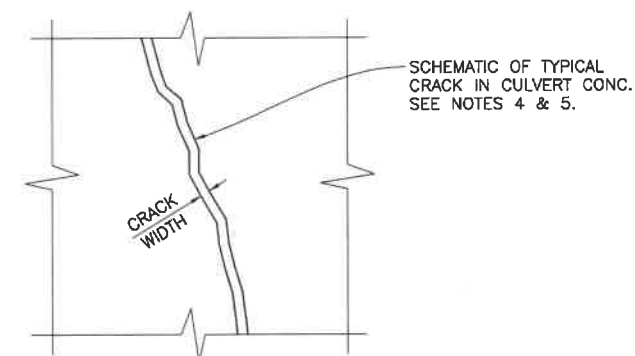
1. SEE "GENERAL PLAN" SHEET FOR SPALL REPAIR LOCATIONS. SEE SPECIFICATION F-46.
2. IF SPALL REPAIR AREA IS LESS THAN 4" FROM AN EDGE, EXTEND THE REPAIR TO THE JOINT.
3. PROTECT EXISTING REINFORCING IN-PLACE. WHERE DAMAGED REINFORCEMENT IS FOUND, REPLACE AS SHOWN IN "TYPICAL SPALL REPAIR WITH BAR REINFORCEMENT REPLACEMENT" DETAIL.
4. INJECT EPOXY INTO CRACKS HAVING A CRACK WIDTH OF 0.050" OR GREATER. IF CRACKS HAVE A CRACK WIDTH 0.050" OR GREATER AND ALSO HAVE PORTIONS LESS THAN 0.050" IN WIDTH, INJECT EPOXY IN ALL PORTIONS OF THE CRACK DOWN TO 0.010" IN WIDTH. SEE SPECIFICATION F-45.
5. FOR CRACKS GREATER THAN 0.250" IN WIDTH, CONSIDER AS A SPALL AND REPAIR PER DETAILS HEREON. SEE SPECIFICATION F-46.



SECTION B-B
JOINT, CRACK OR EDGE OF CONCRETE REPAIR
NO SCALE



SECTION C-C
MISCELLANEOUS SPALL REPAIR
NO SCALE



CRACK DETAIL
NO SCALE



MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

CIVIL ENGINEER * VINCENZO V. VINCENZO
MARK STILLER
No. 67881
Exp. 6/30/20

DATE: 8/21/19

DESIGNED BY: M. STILLER
DRAWN BY: R. ANDRASEK
CHECKED BY: R. ANDRASEK
DRAWING CODE: 03 SILVERADO 0180.DWG
FILE NAME: 03 SILVERADO 0180.DWG
PLOT DATE: 8/21/19
SCALE: AS SHOWN

COUNTY OF ORANGE
OC PUBLIC WORKS

NCM ENGINEERING CORP.
22362 GILBERTO
RANCHO SANTA MARGARITA
CALIFORNIA, 92688

SILVERADO CANYON RD
OVER SILVERADO CANYON
CREEK
PREVENTATIVE MAINTENANCE
Br. No. 5500180

**SPALL & CRACK
REPAIR DETAILS**

Sheet
Reference
Number

S2

Sheet 3 of 3