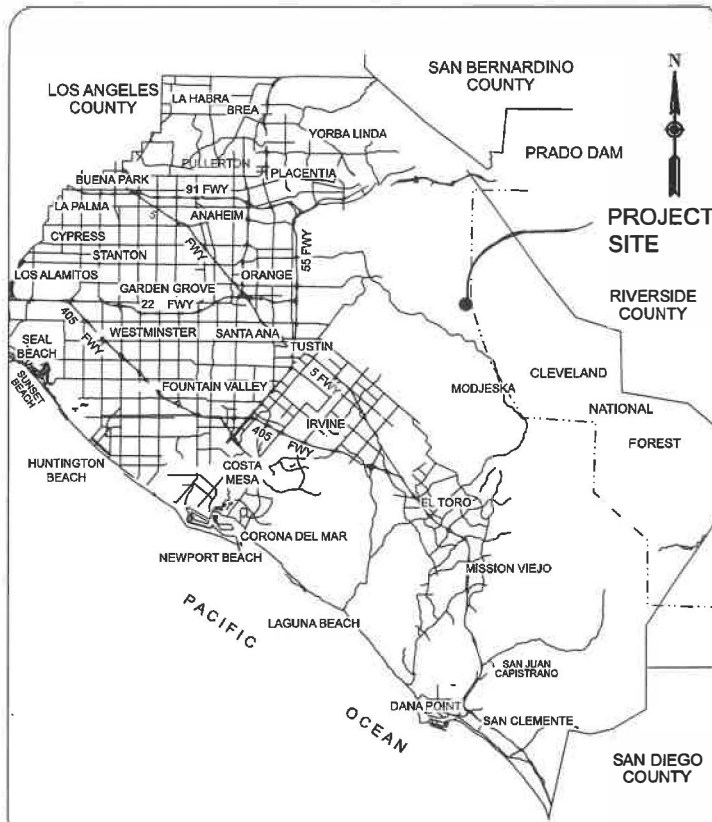
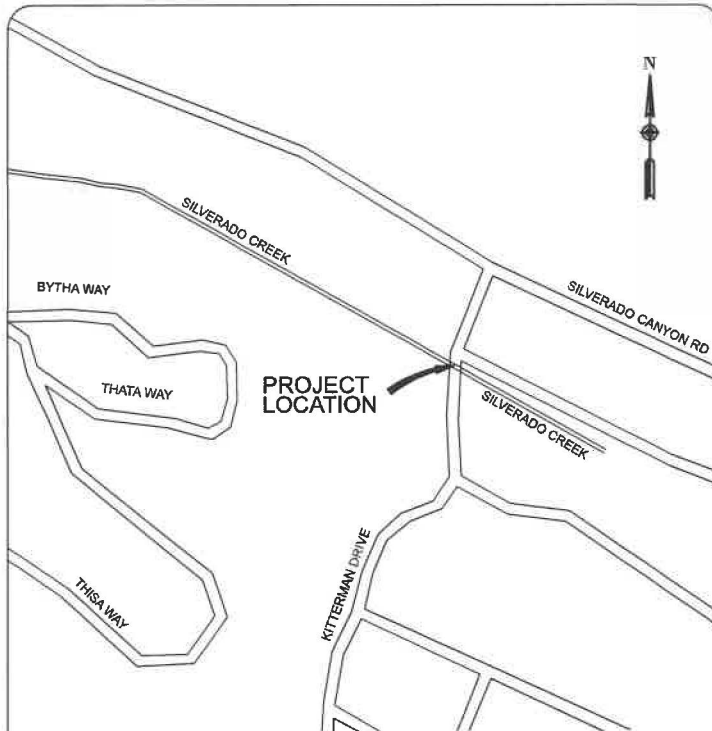




VICINITY MAP
NTS



LOCATION MAP
NTS

County of Orange



SANTA ANA, CALIFORNIA

SHANE L. SILSBY, DIRECTOR

PLANS FOR 2018 BRIDGE MAINTENANCE PROJECT KITTERMAN DRIVE OVER SILVERADO CREEK BRIDGE NO. 55C0176 WORK ORDER NO ER20545

APRIL, 2019
100% Submittal

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

GENERAL NOTES

THE CONTRACTOR SHALL CONTACT DIGALERT AT 1 (800) 422-4133 AT LEAST 2 WORKING DAYS PRIOR TO PERFORMING ANY EXCAVATION

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 TO ARRANGE FOR PRE-CONSTRUCTION NESTING BIRD SURVEYS OF THE CONSTRUCTION AREAS. 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 CONSTRUCTION ACTIVITY WITHIN 300 FEET OF AN ACTIVE NEST [500 FEET FOR RAPTORS] SHOULD BE DELAYED UNTIL THE NEST IS NO LONGER ACTIVE, OR OTHERWISE APPROVED BY THE REGULATORY PERMITTING TEAM OR THEIR REPRESENTATIVE.

COUNTY OF ORANGE OC PUBLIC WORKS DEPARTMENT

SUBMITTED: Regina Hu 4/11/19
REGINA HU, P.E.
SENIOR CIVIL ENGINEER
OC INFRASTRUCTURE PROGRAMS
ENGINEERING DIVISION
RECOMMENDED: [Signature] 4/11/19
PAUL JEFFREY ERNST, P.E.
MANAGER
OC INFRASTRUCTURE PROGRAMS
ENGINEERING DIVISION
RECOMMENDED: Nardy Khan 4-11-19
NARDY KHAN, P.E.
DEPUTY DIRECTOR
OC INFRASTRUCTURE PROGRAMS
APPROVED: Khalid Bazmi 4/11/19
KHALID BAZMI, P.E.
ASSISTANT PUBLIC WORKS DIRECTOR
COUNTY ENGINEER

RECORD DRAWING

CONTRACTOR: _____
RESIDENT ENGINEER: _____
INSPECTOR: _____
CONSTRUCTION START DATE: _____
CONSTRUCTION COMPLETION DATE: _____

PREPARED BY

PREPARED UNDER RESPONSIBLE CHARGE OF:
DOKKEN
110 BLUE RAVINE ROAD, SUITE 200
FOLSOM, CA 95630
TEL. 916 858-0842
FAX 916 858-0643
FORTUNATO ENRIQUEZ, P.E.,
DOKKEN ENGINEERING
4-2-2019

INDEX OF SHEETS

SHEET	DESCRIPTION
1	TITLE SHEET
2	SITE PLAN
3	REMOVAL PLAN
4	ROCK SLOPE PROTECTION DETAILS

ABBREVIATIONS

Abut	abutment
AC	asphalt concrete
BB	begin bridge
Conc	concrete
CY	cubic yard
EB	end of bridge
Exist	existing
Exp	expansion
FG	final grade
Jt	joint
Lt	left
LF	linear feet
LS	lump sum
MGS	midwest guardrail system
min	minimum
OG	original grade
RSP	rock slope protection
Rt	right
R/W	right of way
TL-3	test level 3
Typ	typical

PRIOR TO CONSTRUCTION NOTES

CONTACT ENVIRONMENTAL ENGINEERING SPECIALIST A MINIMUM OF 5 WORKING DAYS PRIOR TO START OF CONSTRUCTION TO PERFORM THE FOLLOWING:

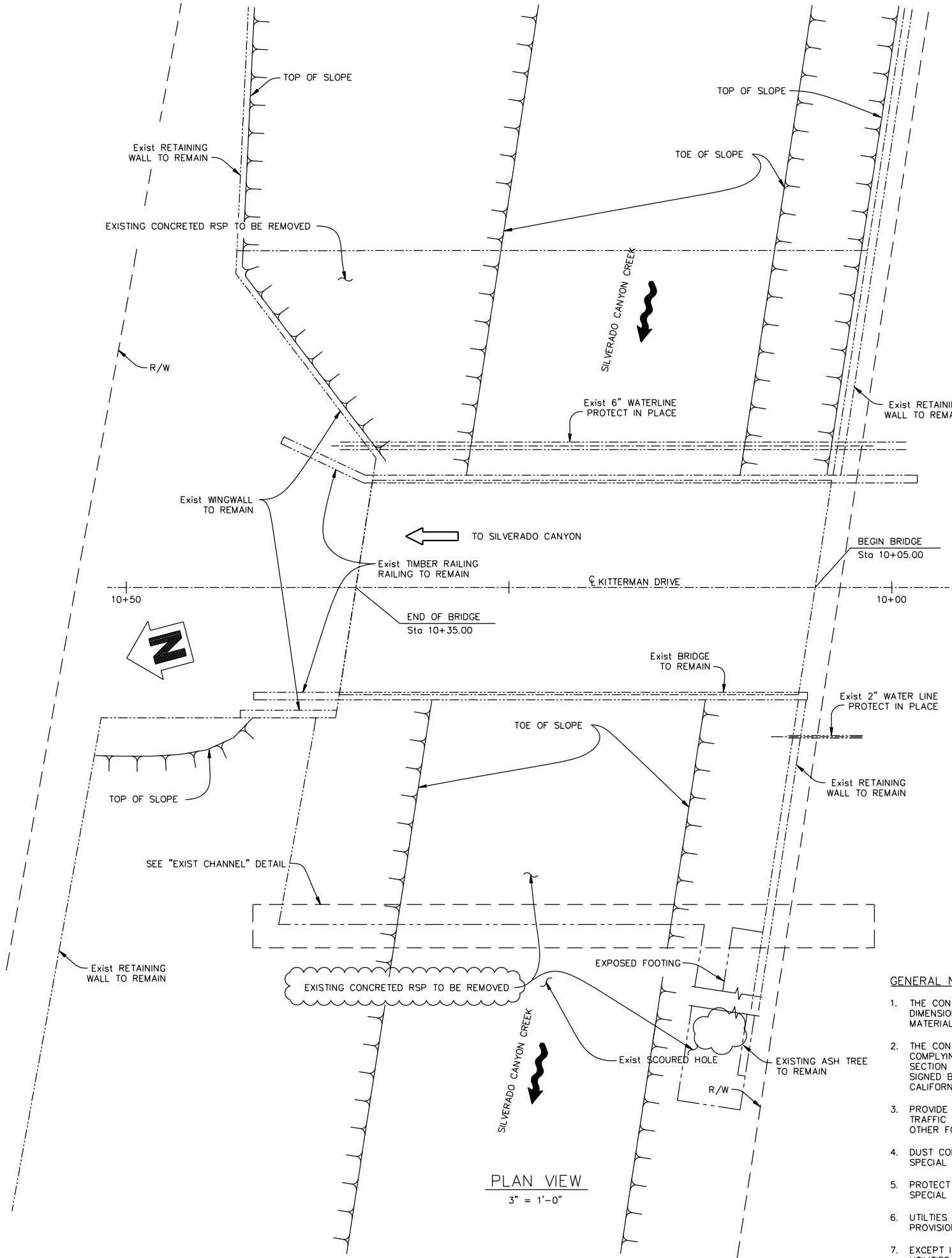
1. MARK OUT TOE OF SLOPE TO DELINEATE LIMITS OF CONSTRUCTION WITHIN THE CREEK. NO CONSTRUCTION EQUIPMENT, STOCKPILES OR OPERATIONS WILL BE PERMITTED BEYOND THE LIMITS OF CONSTRUCTION.
2. PRE-CONSTRUCTION BIRD NESTING SURVEY (AS NOTED ON THIS SHEET).
3. REGULATORY PERMITS TEAM WILL CUT AND REPLANT MULEFAT PLANTS GROWING WITHIN THE CONSTRUCTION AREA UPSTREAM OF KITTEMAN PRIOR TO START OF CONSTRUCTION. ANY REMAINING STRUMPS WITHIN THE CONSTRUCTION AREA CAN BE REMOVED. NO VEGETATION OUTSIDE OF CONSTRUCTION LIMITS IS TO BE REMOVED OR DAMAGED.
4. BE PRESENT ON SITE FIRST MORNING OF CONSTRUCTION TO BRIEF CONSTRUCTION CREW OF ENVIRONMENTAL CONSTRAINTS TO BE OBSERVED ON-SITE.

NO.	DESCRIPTION	SHT.	APPROVED	DATE
REVISIONS				

W.O. NO. ER20545
DWG. NO. G-1

SHEET 1 OF 4

File: s:\2472 Orange_City_SB-L_BR_Main\517\Bridge_55C0176-HOLD\55C0176-BRDR-D-K_Plot.dwg 1/8/2015 3:08 PM by FORTUNATO ENRIQUEZ, Saved: 2/20/2019 1:32 PM by FORTUNATO ENRIQUEZ



GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS.
2. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN COMPLYING WITH JOB ORDER CONTRACT SPECIAL PROVISION SECTION F-3 OR THE CURRENT MUTCD REQUIREMENTS AND SIGNED BY A CIVIL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
3. PROVIDE TWO PORTABLE CHANGEABLE MESSAGE SIGNS FOR TRAFFIC CONTROL, ONE FOR NORTHBOUND TRAFFIC AND THE OTHER FOR SOUTHBOUND TRAFFIC
4. DUST CONTROL SHALL COMPLY WITH JOB ORDER CONTRACT SPECIAL PROVISION SECTION F-5.
5. PROTECT EXISTING FACILITIES PER JOB ORDER CONTRACT SPECIAL PROVISION SECTION F-7.
6. UTILITIES SHALL COMPLY WITH JOB ORDER CONTRACT SPECIAL PROVISION SECTION F-9.
7. EXCEPT INDICATED OTHERWISE, PROTECT IN PLACE ALL EXISTING UTILITIES, FACILITIES, AND IMPROVEMENTS

EXISTING CHANNEL

NTS

LEGEND



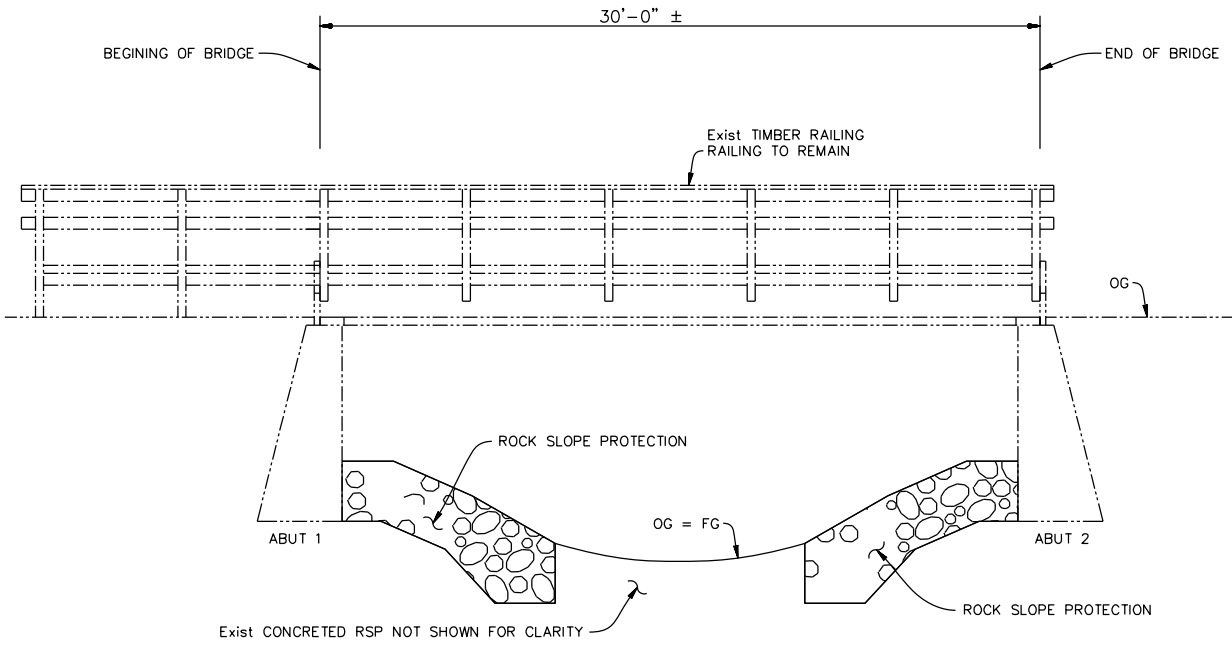
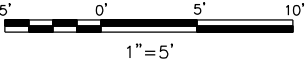
DENOTES ROCK SLOPE PROTECTION



DENOTES EXISTING STRUCTURE



DENOTES DIRECTION OF FLOW



ELEVATION VIEW

3" = 1'-0"

ABUT 2 FACE



REVISIONS OF CALLOUT	DATE	DESCRIPTION	MARK	APPR.
7/11/2019				

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

DEIDOKKEN
ENGINEERING
110 BLUE RAINE ROAD, SUITE 200
FOLSOM, CA 95630
TEL: 916 858-0642
FAX: 916 858-0643

Fortunato Enriquez
FORTUNATO ENRIQUEZ P.E.
DORR ENGINEERING

3-15-2019
DATE

DESIGNED BY: FORTUNATO ENRIQUEZ
DRAWN BY: NANCY ORTIGOSA
CHECKED BY: TIM OSTERKAMP
DRAWING NUMBER: W.O. NO. E20545
FILE NAME:
PLOT DATE: FEBRUARY 20, 2019
SCALE: 1:1 (10 SHEET)

County of Orange
Public Works

PREPARED BY:
DEIDOKKEN
ENGINEERING
110 BLUE RAINE ROAD, SUITE 200
FOLSOM, CA 95630
TEL: 916 858-0642
FAX: 916 858-0643

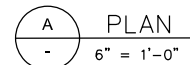
KITTERMAN DRIVE
BRIDGE OVER
SILVERADO CREEK

55C0176
SITE PLAN

SHEET

G-2

INDEX: 2 OF 4



GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS.
2. PROTECT EXISTING FACILITIES PER JOB ORDER CONTRACT SPECIAL PROVISION SECTION F-7.
3. DUST CONTROL SHALL COMPLY WITH JOB ORDER CONTRACT SPECIAL PROVISION SECTION F-5.
4. EXCEPT INDICATE OTHERWISE, PROTECT IN PLACE ALL EXISTING UTILITIES, FACILITIES, AND IMPROVEMENTS
5. EROSION CONTROL SHALL COMPLY WITH JOB ORDER CONTRACT SPECIAL PROVISION SECTION F-4.
6. CONTRACTOR SHALL PROCEED WITH CAUTION WHEN REMOVING CONCRETED RSP. IF SIGNIFICANT VIBRATIONS OR SIGNS OF DISTRESS ARE NOTICED THAT MAY IMPACT EXISTING FACILITIES, THE INSPECTOR IS TO STOP THE WORK AND NOTIFY THE ENGINEER. DO NOT RESUME WORK UNTIL AUTHORIZED.

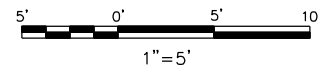
LEGEND



DENOTES REMOVE CONCRETED ROCK SLOPE PROTECTION
PAY LIMITS PER SPECIAL PROVISIONS 72-17.03 AND
CALTRANS STD SPECIFICATONS 2018.

DENOTES EXISTING STRUCTURE

DENOTES DIRECTION OF FLOW

[illegible]

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

DE DOKKEN
ENGINEERING

110 BLUE RAVINE ROAD, SUITE 200
FOLSOM, CA 95630
TEL. 916 858-0642
FAX 916 858-0643

Fortunato Enriquez
FORTUNATO ENRIQUEZ, P.E.,
DOCKEN ENGINEERING

DESIGNED BY:

County of Orange
Public Works

PREPARED BY:
DE DOKKEN
ENGINEERING
110 BLUE RAVINE ROAD, SUITE 200
FOI.COM, CA 95630

KITTERMAN DRIVE
BRIDGE OVER
SILVERADO CREEK

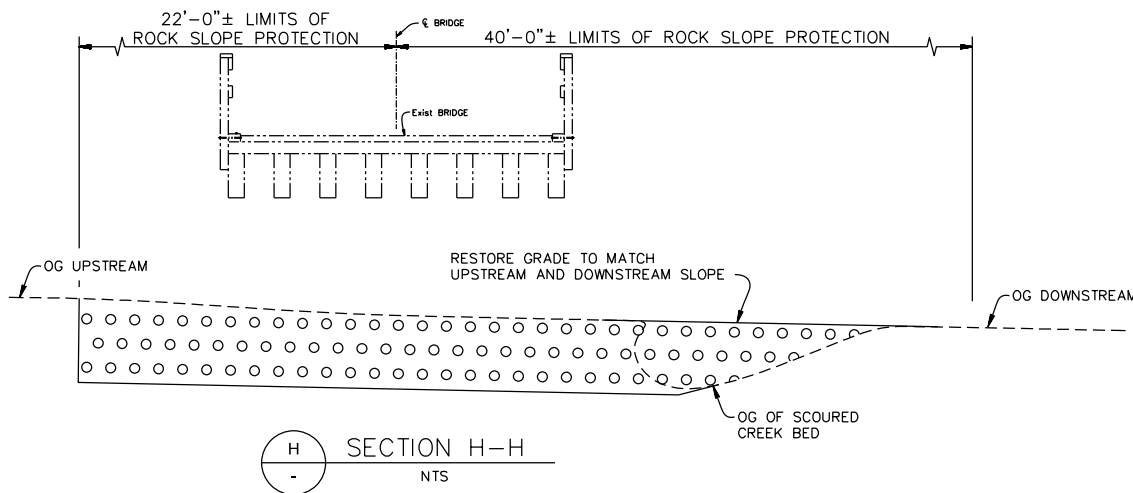
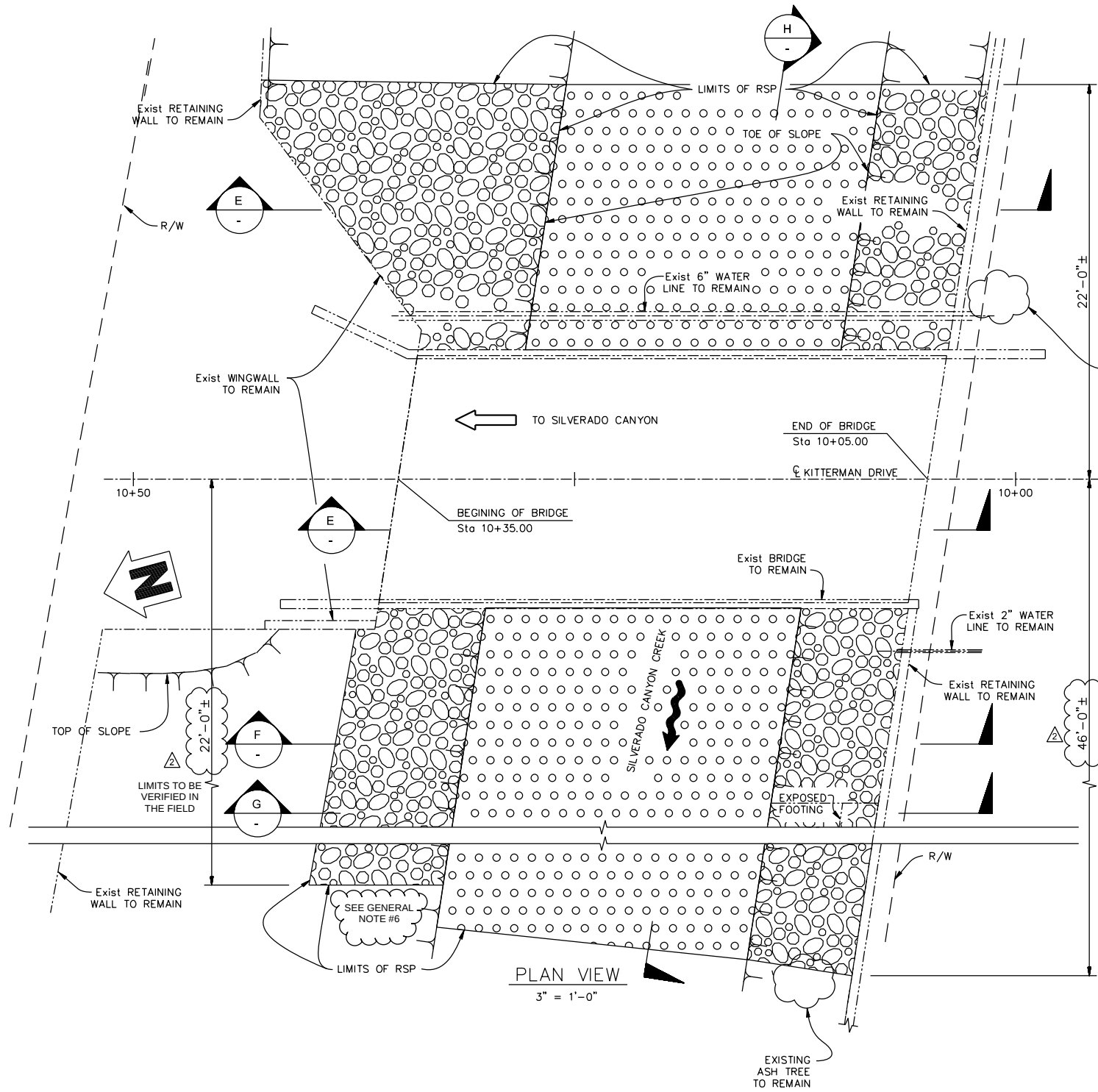
55C0176
REMOVAL PLAN

SHEET

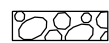
G-3

INDEX: 3 OF 4

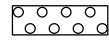
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LEGEND



DENOTES ROCK SLOPE PROTECTION (1T, Class VIII, METHOD B) PAY LIMITS PER SPECIAL PROVISIONS SECTION 72-2 AND 2018 CALTRANS STD SPECIFICATIONS 72-2



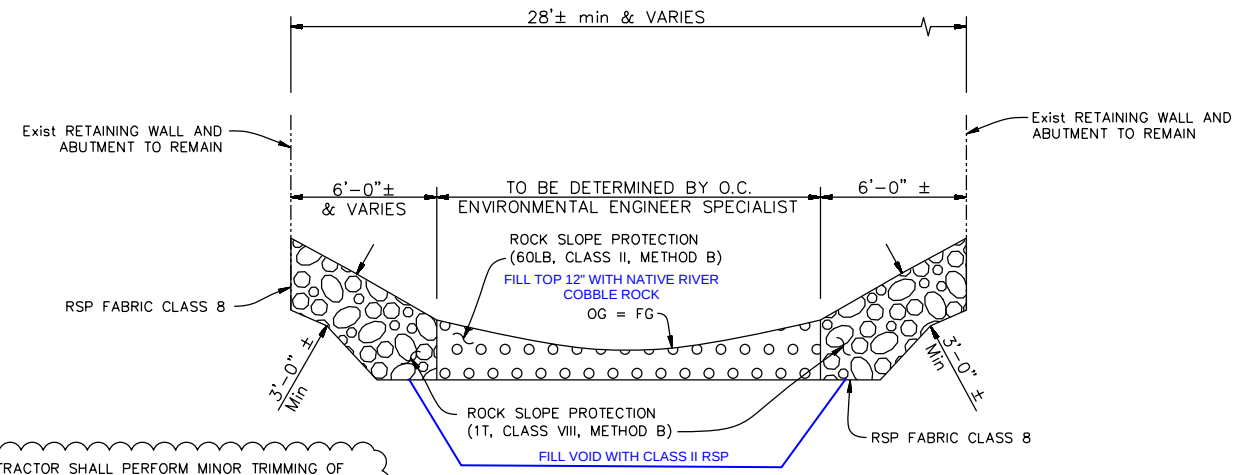
DENOTES ROCK SLOPE PROTECTION (60LB, Class II, METHOD B) PAY LIMITS PER SPECIAL PROVISIONS SECTION 72-2 AND 2018 CALTRANS STD SPECIFICATIONS 72-2



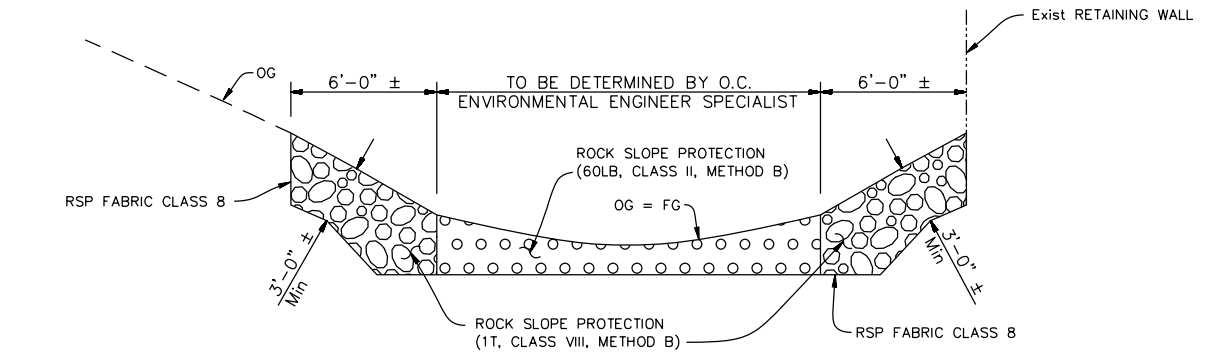
DENOTES EXISTING STRUCTURE



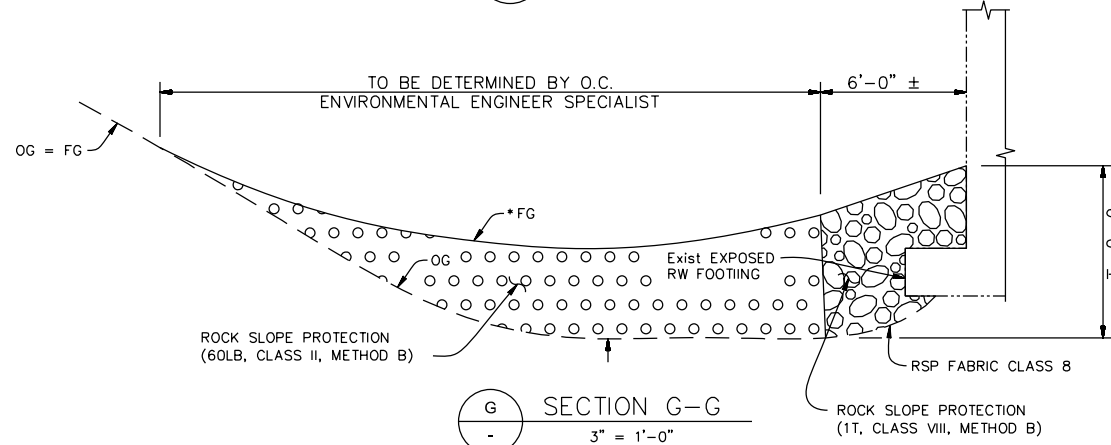
DENOTES DIRECTION OF FLOW



SECTION E-E
3" = 1'-0"



SECTION F-F
3" = 1'-0"

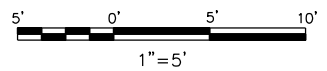


SECTION G-G
3" = 1'-0"

* RESTORE FG TO ORIGINAL GRADE PRIOR TO SCOUR

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS.
2. PROTECT EXISTING FACILITIES PER JOB ORDER CONTRACT SPECIAL PROVISION SECTION F-7.
3. DUST CONTROL SHALL COMPLY WITH JOB ORDER CONTRACT SPECIAL PROVISION SECTION F-5.
4. EXCEPT INDICATE OTHERWISE, PROTECT IN PLACE ALL EXISTING UTILITIES, FACILITIES, AND IMPROVEMENTS
5. EROSION CONTROL SHALL COMPLY WITH JOB ORDER CONTRACT SPECIAL PROVISION SECTION F-4.
6. EMBANKMENT RESTORATION TO BE DETERMINED BY O.C. ENVIRONMENTAL ENGINEER SPECIALIST OR REPRESENTATIVE.



ADDED DIMENSION AND CALLOUT	7/05/2019	DATE	APPR.
ADDED/REMOVED/UPDATED LIMITS OF RSP	7/15/2019	DATE	APPR.
MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

DEIDOKKEN ENGINEERING

110 BLUE RAINE ROAD, SUITE 200
FOLSOM, CA 95630
TEL: 916 858-0642
FAX: 916 858-0643

DATE: 3-15-2019

Fortunato Enriquez
FORTUNATO ENRIQUEZ P.E.
DOKKEN ENGINEERING

DESIGNED BY: FORTUNATO ENRIQUEZ
CHECKED BY: TIM OSTERKAMP
DRAWN BY: NANCY ORTIGOZA
DRAWING NUMBER: W.O. NO. 620545
FILE NAME: 55C0176
PLOT DATE: FEBRUARY 20, 2019
SCALE: 1:1 (TO SHEET)

County of Orange
Public Works

PREPARED BY: **DEIDOKKEN ENGINEERING**
110 BLUE RAINE ROAD, SUITE 200
FOLSOM, CA 95630
TEL: 916 858-0642
FAX: 916 858-0643

KITTERMAN DRIVE
BRIDGE OVER
SILVERADO CREEK

55C0176
ROCK SLOPE
PROTECTION DETAILS

SHEET

G-4

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