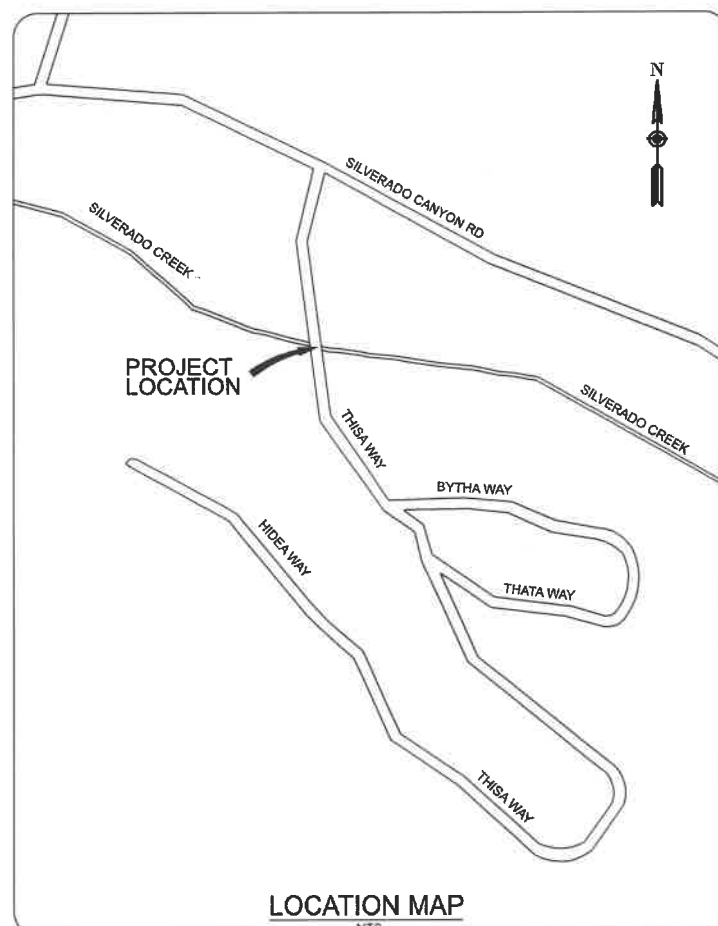
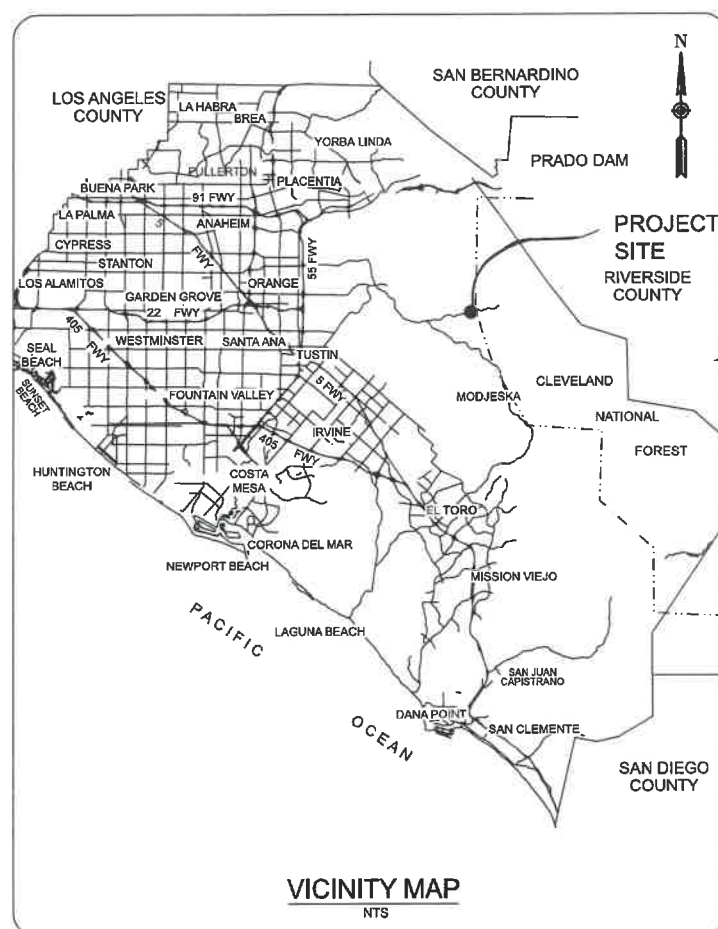




County of Orange



SANTA ANA, CALIFORNIA

SHANE L. SILSBY, DIRECTOR

**PLANS FOR
2018 BRIDGE MAINTENANCE PROJECT
THISA WAY BRIDGE OVER
SILVERADO CREEK
BRIDGE NO. 55C0188
WORK ORDER NO ER20547**

APRIL 2019

100% SUBMITTAL

FUNDED BY: SENATE BILL SB1

POST-PROJECT OWNERSHIP AND MAINTENANCE RESPONSIBILITY: COUNTY OF ORANGE

INDEX OF SHEETS

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

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

COUNTY OF ORANGE OC PUBLIC WORKS DEPARTMENT

SUBMITTED:

REGINA H. P.E.
SENIOR CIVIL ENGINEER
OC INFRASTRUCTURE PROGRAMS
ENGINEERING DIVISION

RECOMMENDED:

PAUL JEFFREY ERNST, P.E.
MANAGER
OC INFRASTRUCTURE PROGRAMS
ENGINEERING DIVISION

RECOMMENDED:

NARDY KHAN, P.E.
DEPUTY DIRECTOR
OC INFRASTRUCTURE PROGRAMS

APPROVED:

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:



FORTUNATO ENRIQUEZ, P.E.,
DOKKEN ENGINEERING

4-2-2011
B4

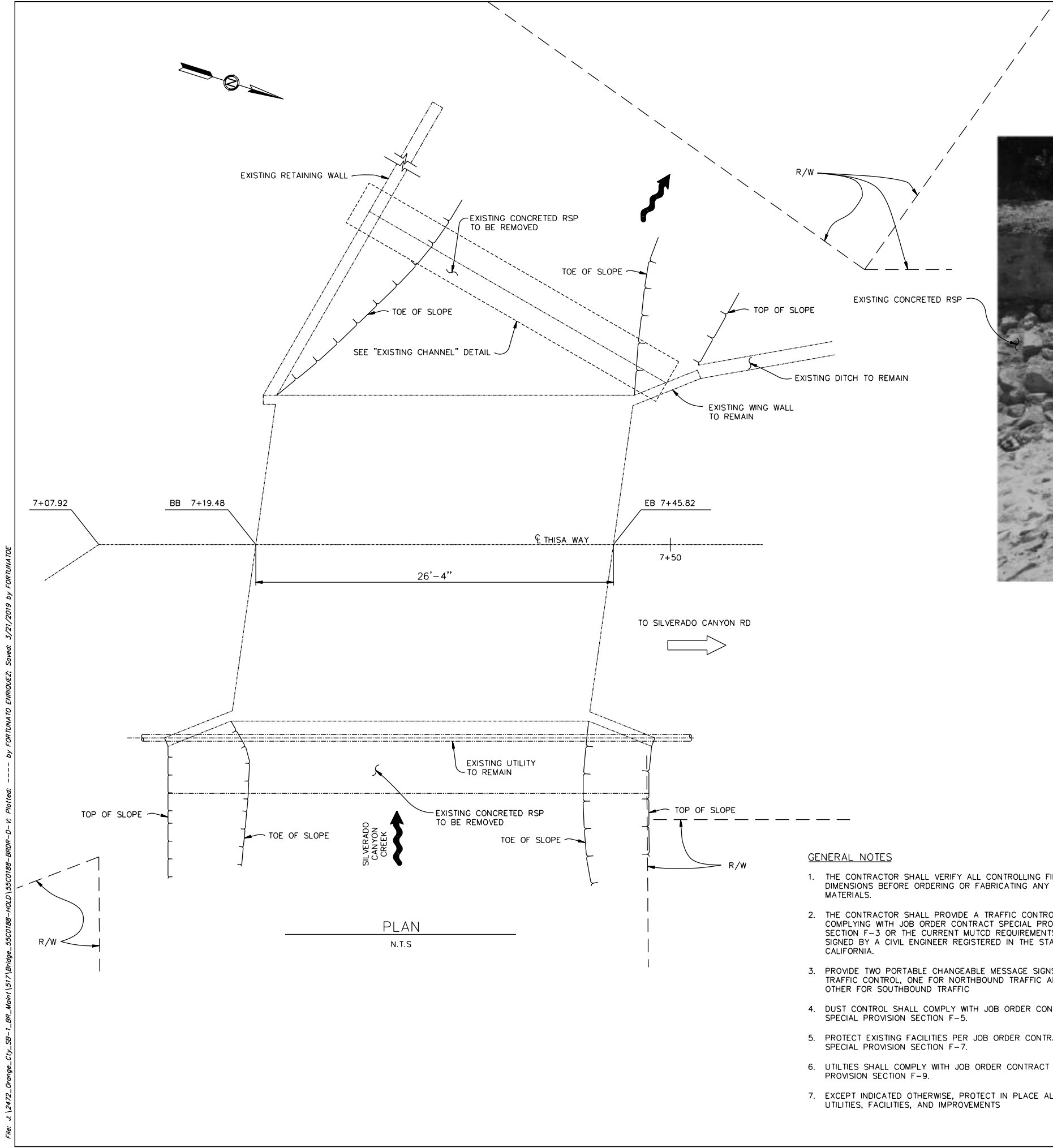
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REVISIONS

W.O. NO. ER 20547
DWG. NO. G-001

SHEET 1 OF 4

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EXISTING CHANNEL
N.T.S

LEGEND

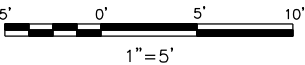
- DENOTES EXISTING STRUCTURE
- ~~~ DENOTES DIRECTION OF FLOW

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 CURRENT MUTCD REQUIREMENTS AND SIGNED BY A CIVIL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.

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





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

Fortuna Enriquez
FORTUNA ENGINEERING, INC.

4-2-2019
DATE

DESIGNED BY:	CHECKED BY:	FILE NAME:	SCALE:
FORTUNATO ENRIQUEZ	TIM OSTERKAMP	ER20547	1:1 (10 SHEET)

DRAWN BY:	DRAWING NUMBER:	PLOT DATE:
NANCY ORTIGOSA		APRIL 2, 2019

County of Orange
Public Works

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

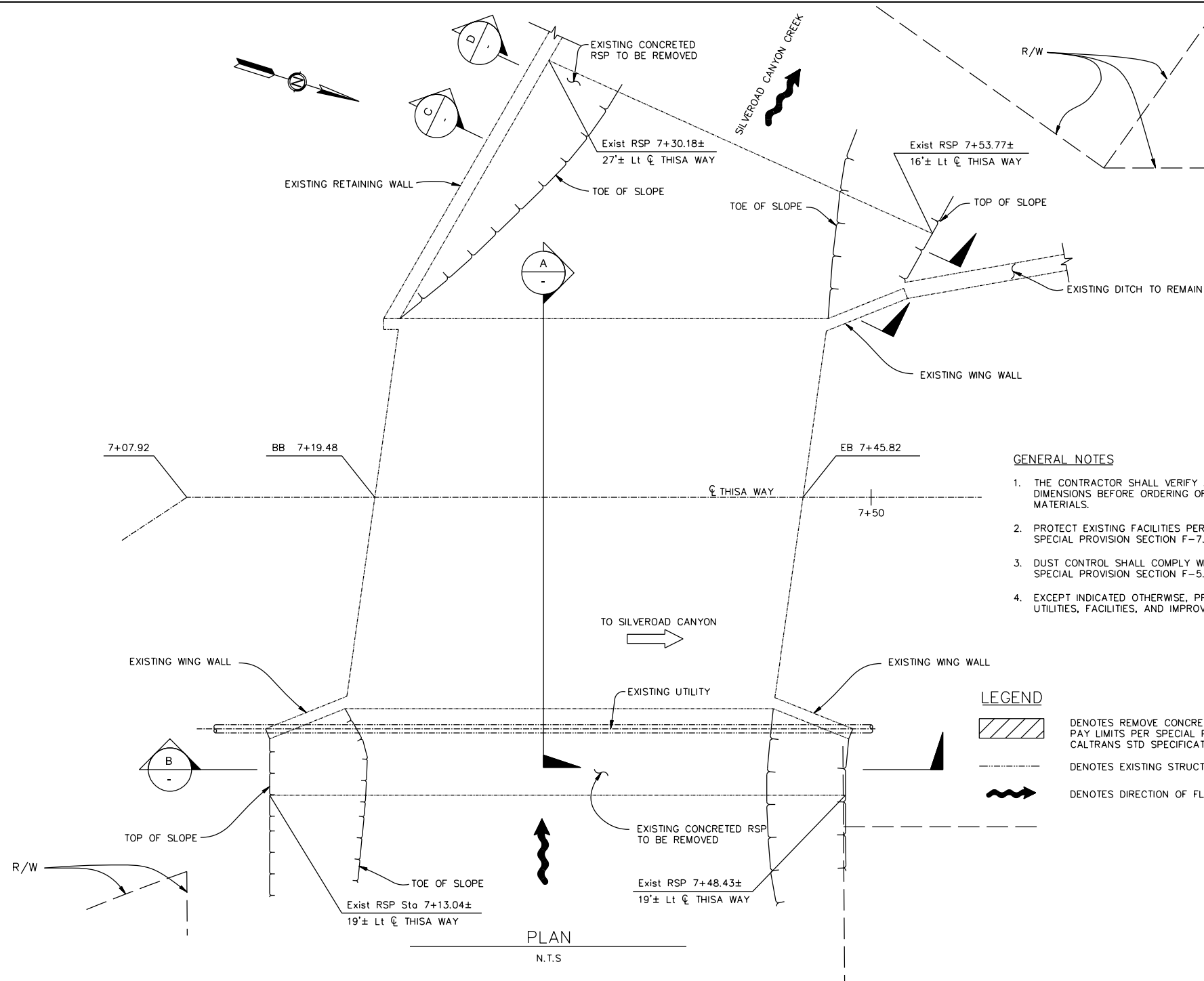
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55C0188
SITE PLAN

SHEET

G-002

INDEX 2 OF 4

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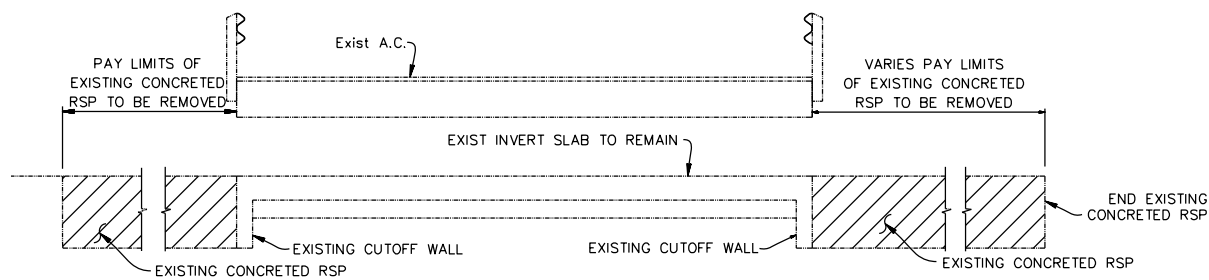
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N.T.S.

GENERAL NOTES

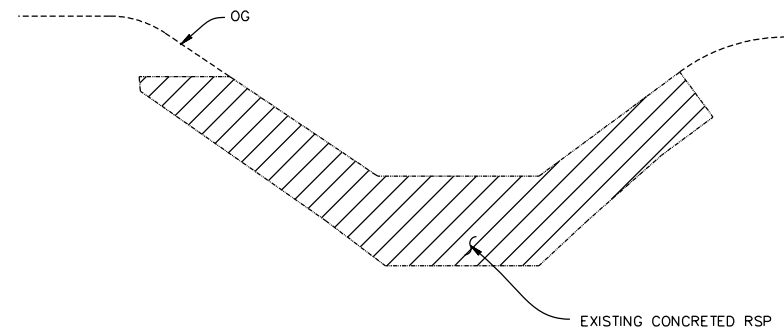
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS.
2. PROTECT EXISTING FACILITIES PER JOB ORDER CONTRACT SPECIAL PROVISION SECTION F-7.
3. DUST CONTROL SHALL COMPLY WITH JOB ORDER CONTRACT SPECIAL PROVISION SECTION F-5.
4. EXCEPT INDICATED OTHERWISE, PROTECT IN PLACE ALL EXISTING UTILITIES, FACILITIES, AND IMPROVEMENTS

LEGEND

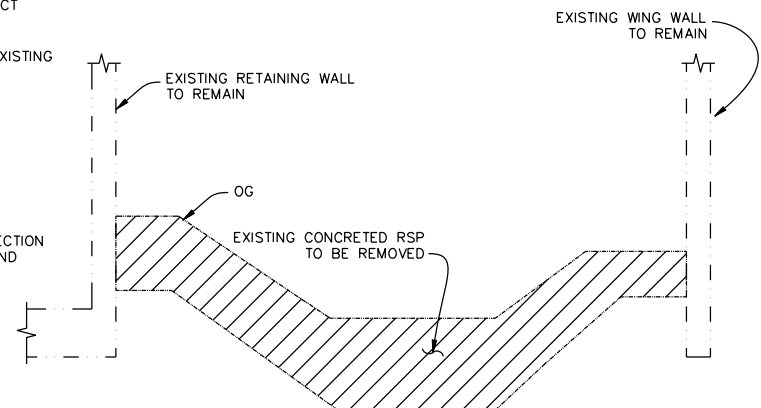
- DENOTES REMOVE CONCRETED ROCK SLOPE PROTECTION PAY LIMITS PER SPECIAL PROVISIONS 72-17.03 AND CALTRANS STD SPECIFICATONS 2018.
- DENOTES EXISTING STRUCTURE
- DENOTES DIRECTION OF FLOW



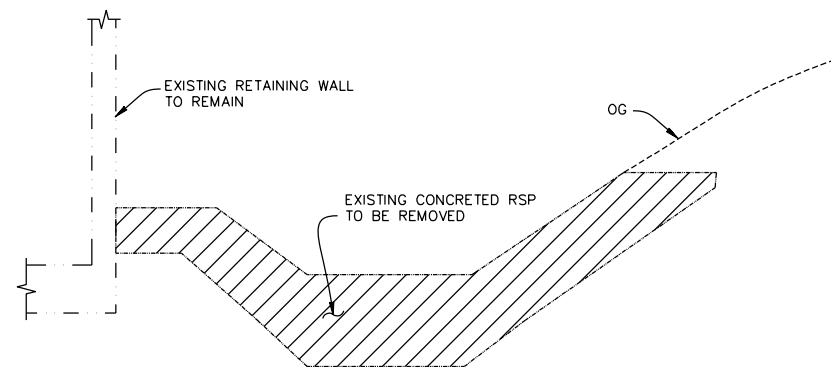
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SECTION A-A
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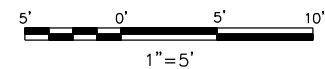
B
SECTION B-B
N.T.S.



C
SECTION C-C
No Scale



D
SECTION D-D
No Scale



MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

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

Fortuna To Enriquez
FORTUNA TO ENRIQUEZ
ENGINEERING INC.

DATE: 4-2-2019

DESIGNED BY: FORTUNATO ENRIQUEZ
CHECKED BY: TIM OSTERKAMP
DRAWN BY: NANCY ORTIGOSA
DRAWING NUMBER: W.O. NO. E20547
FILE NAME: 110 BLUE RAINE ROAD, SUITE 200
FOLSOM, CA 95630
TEL: 916 858-0642
FAX: 916 858-0643

SCALE: 1:1 (10 SHEET)
PLOT DATE: APRIL 2, 2019

County of Orange
Public Works

PREPARED BY: **DEIDOKKEN**
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FOLSOM, CA 95630
TEL: 916 858-0642
FAX: 916 858-0643

THIS WAY BRIDGE OVER SILVERADO CREEK PROJECT 55C0188

REMOVAL PLAN

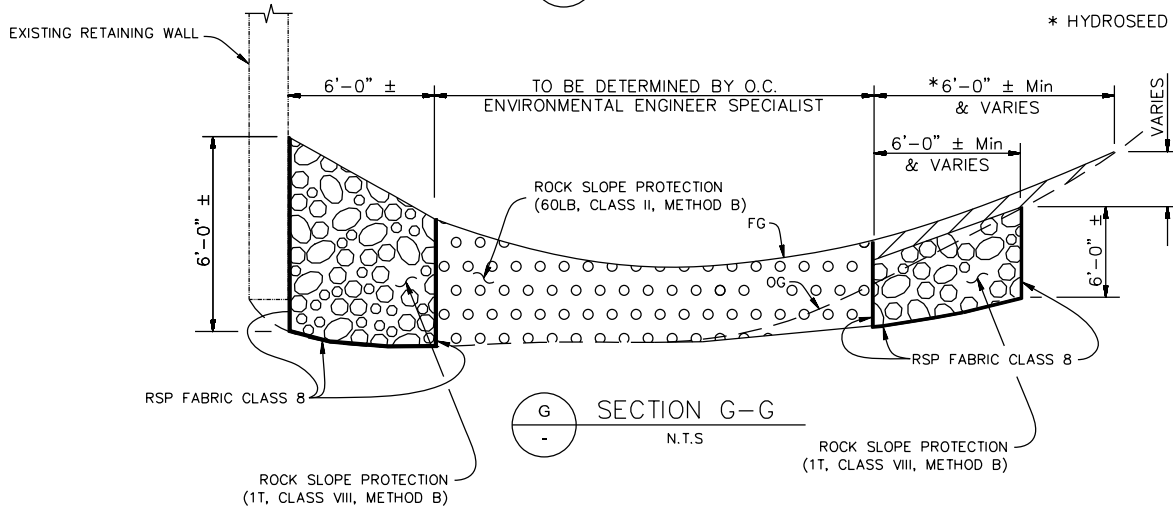
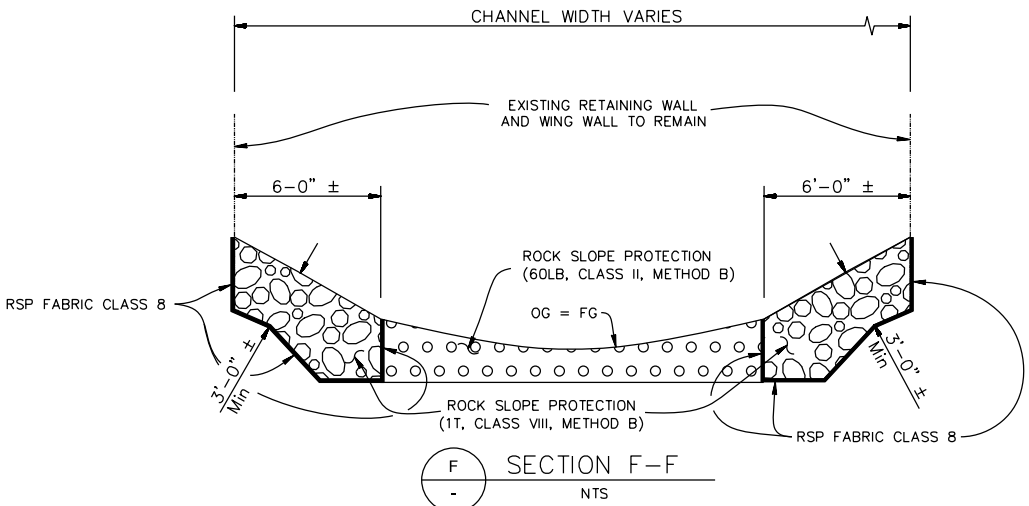
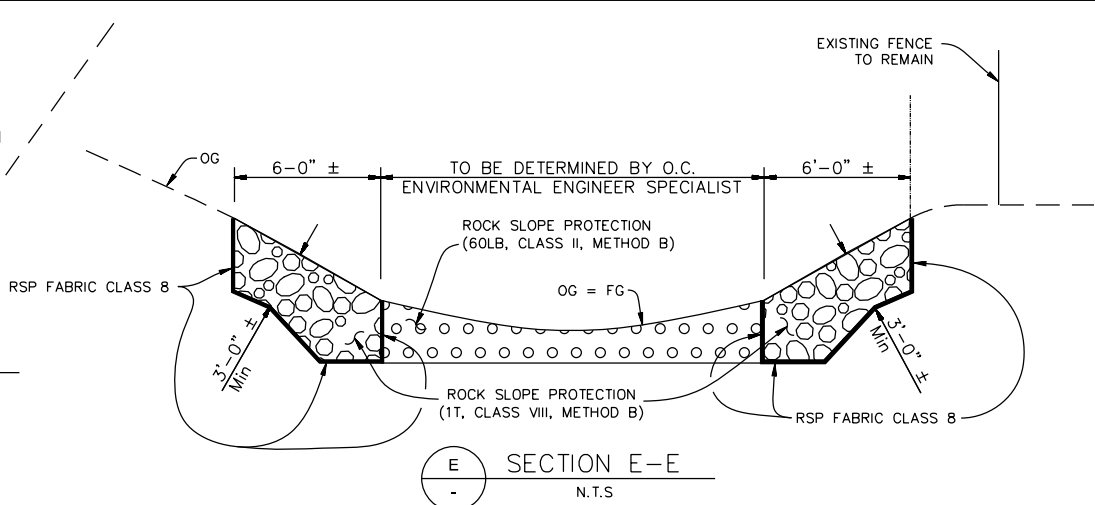
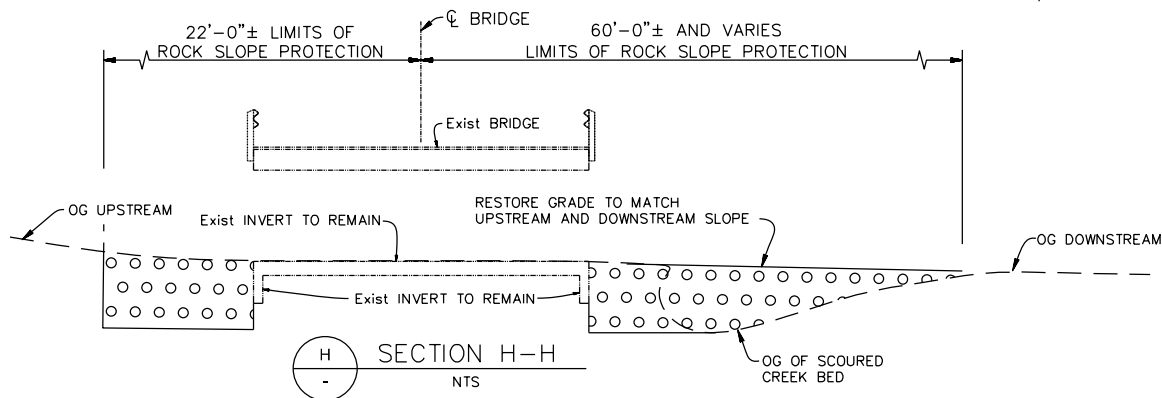
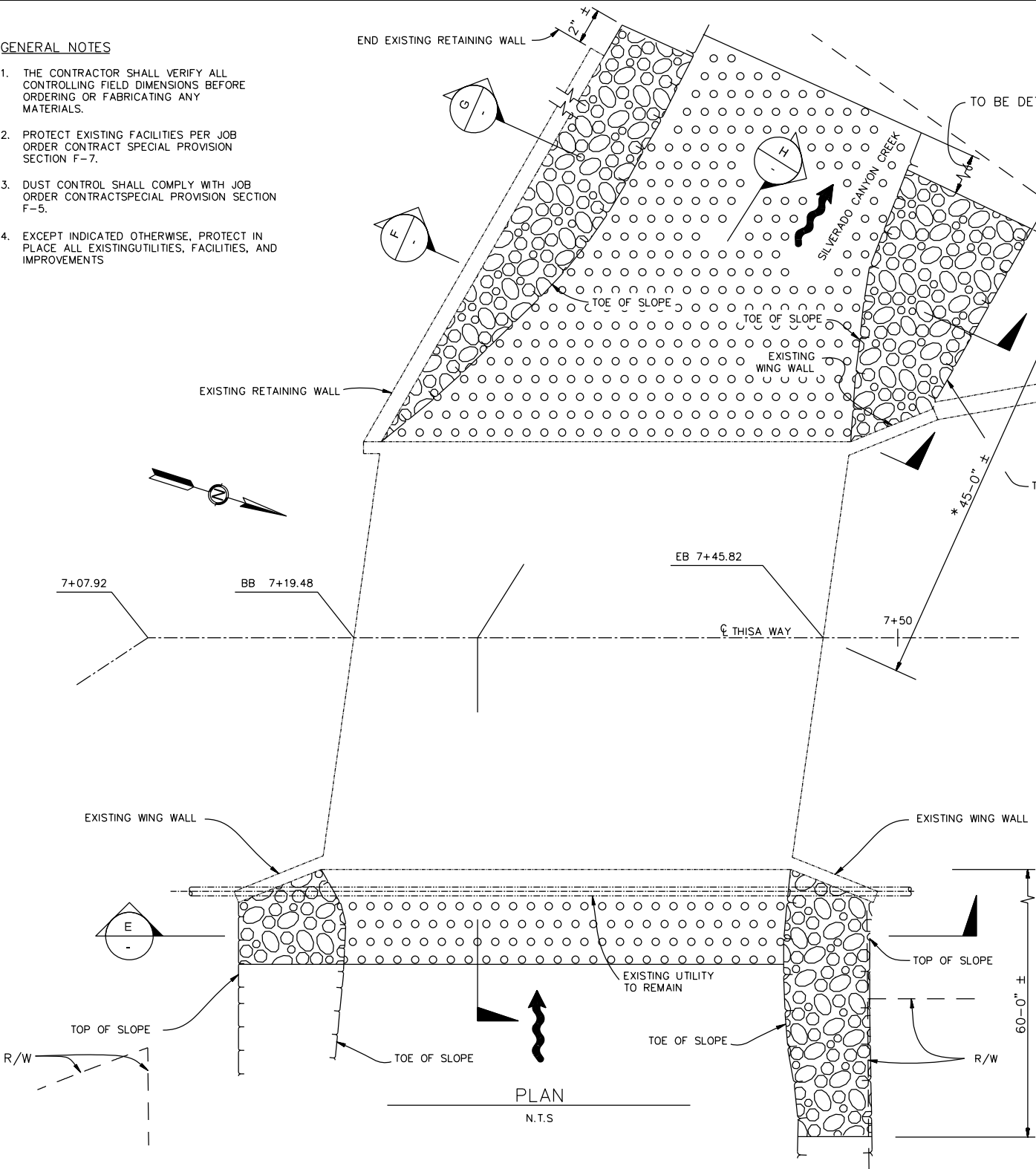
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G-003

INDEX 3 OF 4

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HYDROSEED MIX

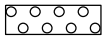
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Artemisia californica	California sagebrush			
Baccharis salicifolia	Mulefat			
Eriogonum fasciculatum	California buckwheat			
Hesperoyucca whipplei	Coppard yucca			
Lepidospartum squamatum	Scalebroom			
Malosma laurina	Laurel sumac			
Opuntia	Preckly pear			
Rubus ursinus	California bricketbush			
Salvia mellifera	Black sage			

PLACE HYDROSEED AS A PERMANENT EROSION CONTROL MEASURE PER 2018 CALTRANS STANDARD SPECIFICATIONS 21-2

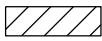
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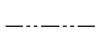
DENOTES ROCK SLOPE PROTECTION (1T, Class VIII, METHOD B) PAY LIMITS PER SPECIAL PROVISIONS SECTION 72-2 AND 2018 CALTRANS STD SPECIFICATIONS 72-2



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



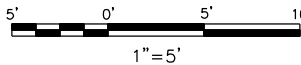
DENOTES IMPORTED BORROW FOR EMBANKMENT CONSTRUCTION PER 2018 CALTRANS STANDARD SPECIFICATIONS 19-7.



DENOTES EXISTING STRUCTURE



DENOTES DIRECTION OF FLOW



MARK	DESCRIPTION	DATE	APPR.

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Fortuna To Enriquez
SARIN ENGINEERING INC.

4-2-2019
DATE

DESIGNED BY: FORTUNATO ENRIQUEZ
CHECKED BY: TIM OSTERKAMP
DRAWN BY: NANCY ORTIGOSA
DRAWING NUMBER: 120547
FILE NAME: 120547
PLOT DATE: APRIL 2, 2019
SCALE: 1:1 (0 SHEET)

County of Orange
Public Works
PREPARED BY: **DEIDOKKEN**
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TEL: 916 858-0642
FAX: 916 858-0643

THIS WAY BRIDGE
OVER SILVERADO
CREEK PROJECT
55C0188
ROCK SLOPE
PROTECTION DETAILS

SHEET
G-004
INDEX 4 OF 4