INDEX OF PLANS

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4	PC-1	PROJECT CONTROL
5-8	L-1 - L-4	LAYOUT AND PROFILE
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13	D-1	DRAINAGE PLAN AND DETAILS
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19	LP-1	LANDSCAPE PLAN
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STRUCTURE PLANS

21-38	ESCALON-BELLOTA ROAD BRIDGE, Br No. 29C-476

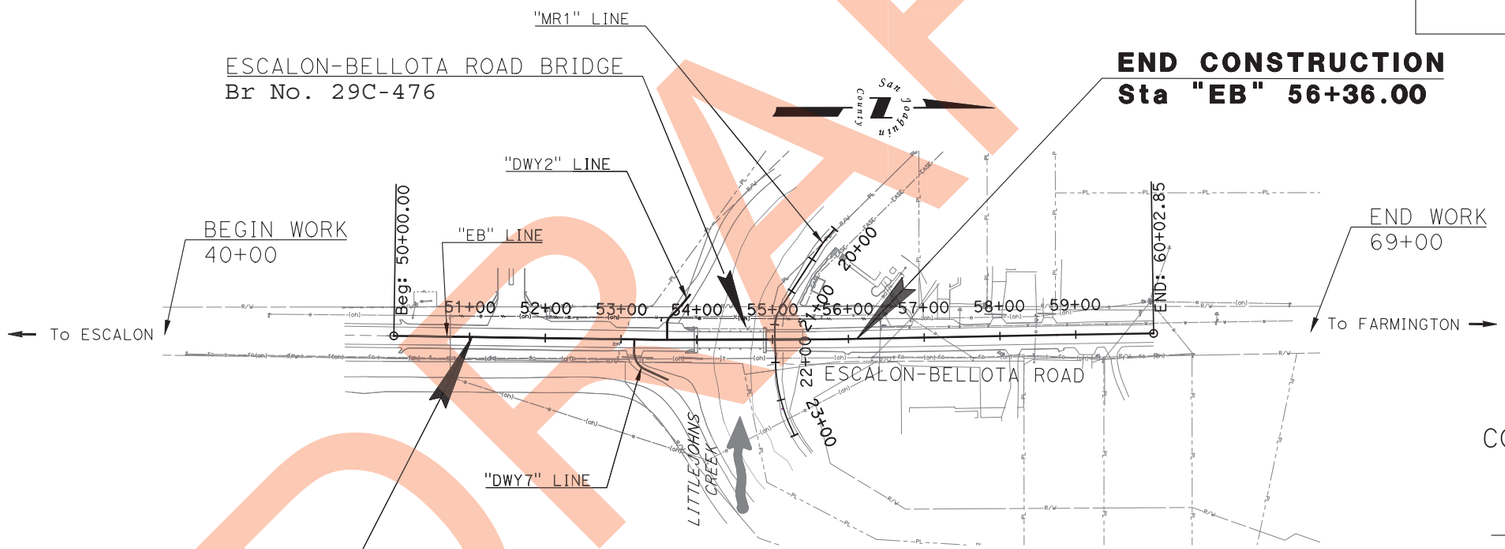
COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
STOCKTON, CALIFORNIA

PROJECT PLANS FOR CONSTRUCTION OF

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL-AID PROJECT No. BRLS-5929(238)

TO BE SUPPLEMENTED BY CALTRANS STANDARD PLANS AND STANDARD SPECIFICATIONS DATED 2018
& SAN JOAQUIN COUNTY IMPROVEMENT STANDARDS DATED DECEMBER 2014 AND MODIFIED MAY 2015

VICINITY MAP



PROJECT LOCATION MAP
NO SCALE

DIGALERT

811 Know what's **below.** **Call 811** before you dig.

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

COUNTY OF SAN JOAQUIN
Submitted: _____

KRIS BALAJI
DIRECTOR OF PUBLIC WORKS

REGISTERED PROFESSIONAL ENGINEER
Michael Wolohan
No. 67743
Exp. 06/30/23
CIVIL
STATE OF CALIFORNIA

PROJECT ENGINEER
REGISTERED CIVIL ENGINEER

95% SUBMITTAL - NOT FOR CONSTRUCTION

DRAFT

REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
1810 EAST HAZELTON AVENUE STOCKTON, CA 95205
TEL: (209) 468-3000
FAX: (209) 468-2999

DESIGNED: T. CLIFFORD
DRAWN: M. ALMAZAN
CHECKED: R. GIBSON
APPROVED:

TY LIN INTERNATIONAL
1545 RIVER PARK DR, SUITE 201
SACRAMENTO, CA 95815

REGISTERED PROFESSIONAL ENGINEER
M. WOLOHAN
No. 67743
Exp. 06/30/23
CIVIL
STATE OF CALIFORNIA

PROJECT ENGINEER

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

TITLE SHEET

T-1
ORIGINAL SCALE :
DATE: 02/01/2022
SHEET 1 OF 38

XRef List: | 077-X-LANDNET | 077-X-TP | 077-X-UTIL | BRDR_ENG_ANSI_D - Copy |
Oct. 05, 2021 - 11:46:00 DWG Name: T:\Sacramento\Legacy\Proj_File\710077 - Escalon-Bellota Bridge\500_Engineering\510_Civil\511_CADD\SHEET\01-077-T.dwg Updated By: VORTEGA

NOTES:

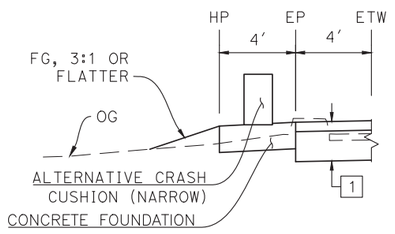
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATION.

2. TRANSITION FROM Exist CROSS SLOPE TO 2% IN 50'
("EB" Sta 51+03.50 To 51+53.50 & "EB" Sta 55+86.00
To "EB" LINE 56+36.00).

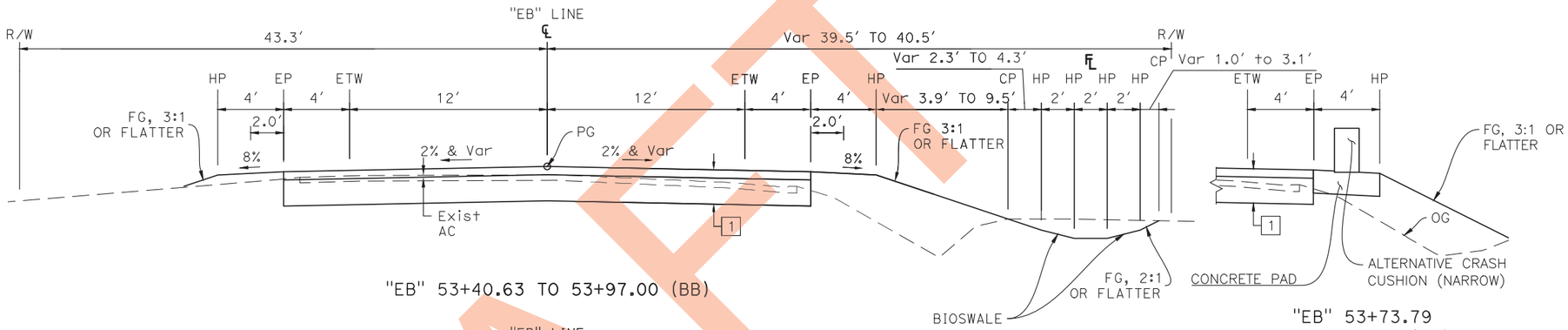
TYPICAL STRUCTURAL SECTIONS

[1] 6" HMA (TYPE A)
18" CL 2 AB

[2] 2" HMA (TYPE A)
3" CL 2 AB

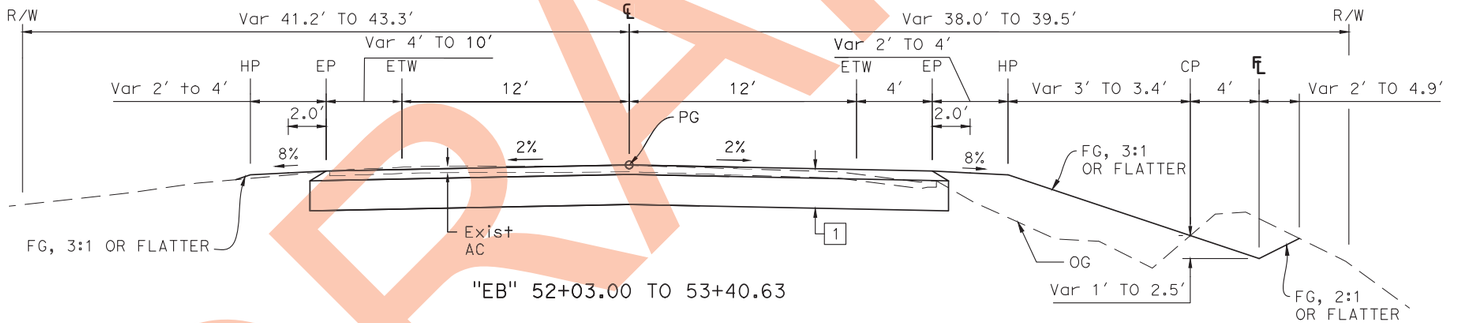


PER CRASH CUSHION MANUFACTURER
"EB" 53+73.79 TO 53+97.00 (BB)

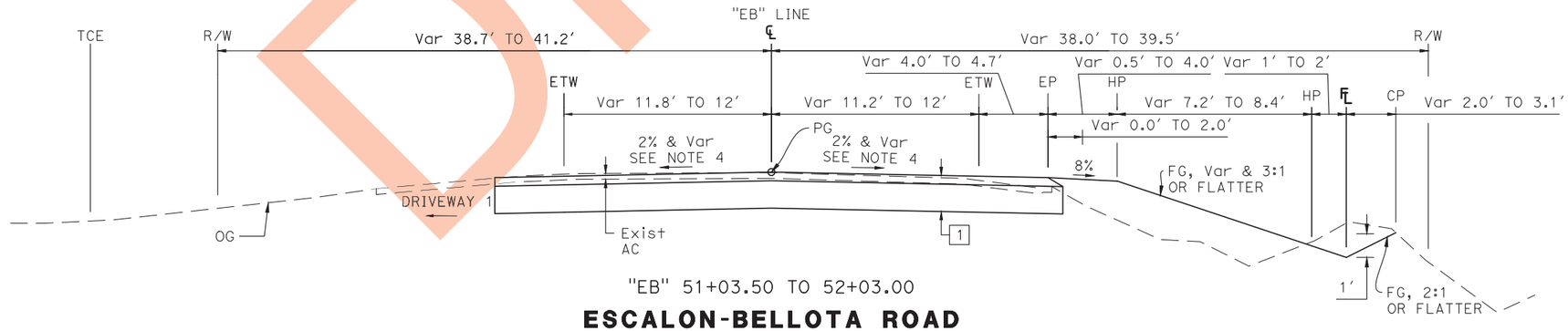


"EB" 53+40.63 TO 53+97.00 (BB)

"EB" 53+73.79
TO 53+97.00 (BB)



"EB" 52+03.00 TO 53+40.63



"EB" 51+03.50 TO 52+03.00

ESCALON-BELLOTA ROAD

DRAFT

95% SUBMITTAL - NOT FOR CONSTRUCTION

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SACRAMENTO, CA 95815

REGISTERED PROFESSIONAL ENGINEER
M. WOLOHAN
No. 67743
Exp. 06/30/23
CIVIL
STATE OF CALIFORNIA

PROJECT ENGINEER

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

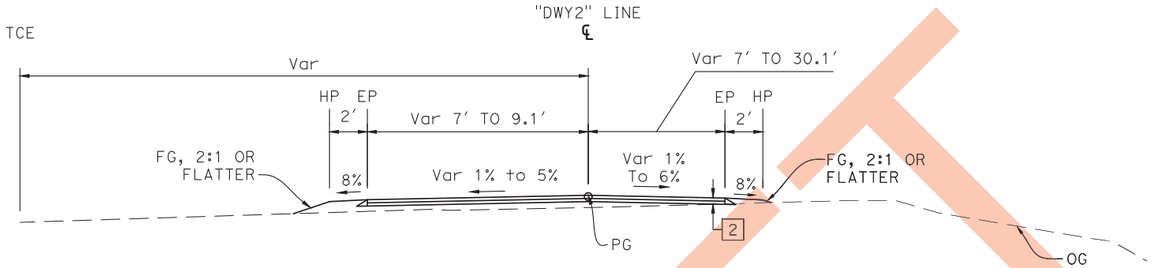
TYPICAL CROSS SECTIONS

X-1
ORIGINAL SCALE : NO SCALE
DATE: 02/01/2022
SHEET 2 OF 38

XRef List: | BRDR_ENG_ANSI_D - Copy |
Oct. 05, 2021 - 12:01:32 DWG Name: T:\Sacramento\Legacy\Prj_File\710077 - Escalon-Bellota Bridge\500_Engineering\510_Civil\511_CADD\SHEET\02-077-X.dwg Updated By: VORTEGA

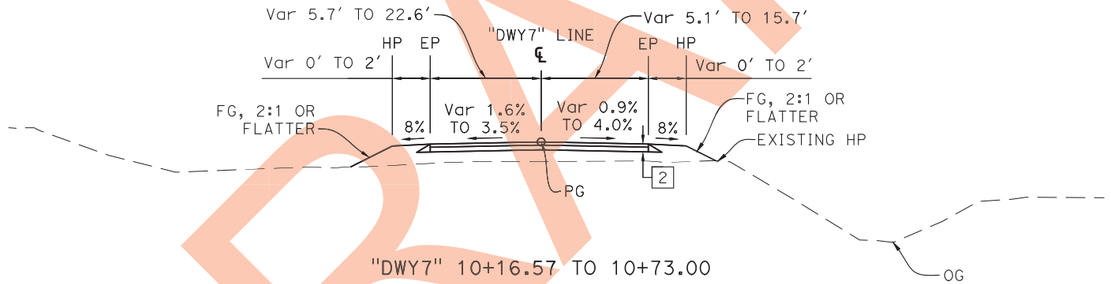
NOTES:

1. SEE X-1 FOR NOTES.



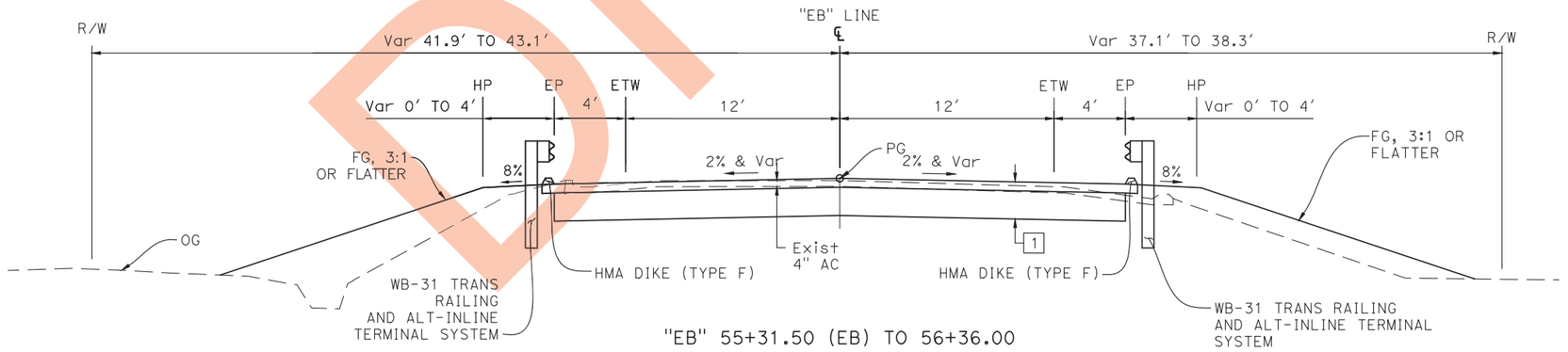
"DWY2" 0+16.00 TO 0+65.26

DRIVEWAY 2



"DWY7" 10+16.57 TO 10+73.00

DRIVEWAY 7



"EB" 55+31.50 (EB) TO 56+36.00

ESCALON-BELLOTA ROAD

REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
1810 EAST HAZELTON AVENUE STOCKTON, CA 95205
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APPROVED:

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No. 67743
Exp. 06/30/23
CIVIL
STATE OF CALIFORNIA

PROJECT ENGINEER

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

TYPICAL CROSS SECTIONS

X-2

ORIGINAL SCALE : NO SCALE
DATE: 02/01/2022
SHEET 3 OF 38

95% SUBMITTAL - NOT FOR CONSTRUCTION

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XRef List: | BRDR_ENG_ANSI_D - Copy |
Oct. 05, 2021 - 12:01:32 DWG Name: T:\Sacramento\Legacy\Prj_File\710077 - Escalon-Bellota Bridge\500_Engineering\510_Civil\511_CADD\SHEET\02-077-X.dwg Updated By: VORTEGA

NOTES:

1. FOR COMPLETE PROJECT CONTROL DATA, SEE THE SURVEY RECORDS ON FILE AT THE COUNTY OFFICE.

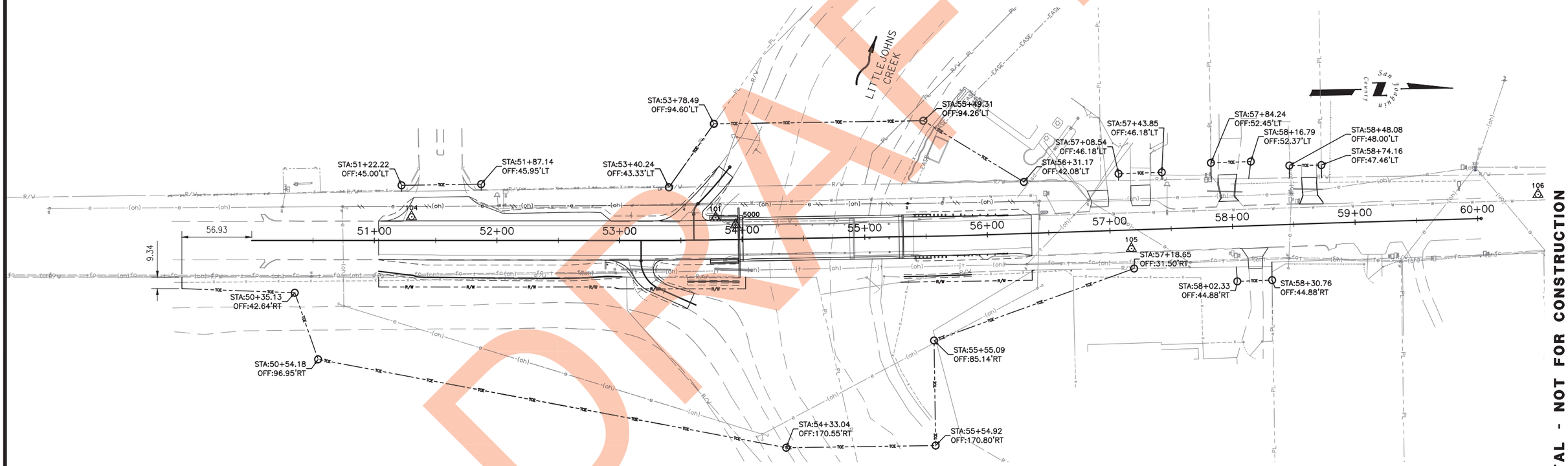
LOCAL CONTROL						
No.	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
5000	53+94.77	11.87 L+	2159755.353	6417394.414	115.14	3/.5" BD ON SW COR
101	53+78.58	17.83 L+	2159739.150	6417388.488	113.95	MAG NAIL
102	-	-	2158832.662	6417410.144	112.79	MAG NAIL
103	-	-	2161039.584	6417376.306	114.76	MAG NAIL
104	51+30.34	19.35 L+	2159491.252	6417383.911	113.48	MAG NAIL
105	57+16.98	15.15 R+	2160077.850	6417418.418	114.03	MAG NAIL
106	-	-	2160410.025	6417379.182	112.36	MAG NAIL

BASIS OF BEARING

COORDINATES AND BEARINGS ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM NAD83. A LINE BETWEEN NGS MONUMENT HS2247 (TRIGO AZ MK) AND NGS MONUMENT JS1516 (U 956) BEARS NORTH 27°14'37" WEST AS CALCULATED FROM NGS DATA SHEETS RETRIEVED 8/5/2013. ALL DISTANCES SHOWN ARE GROUND LEVEL DISTANCES UNLESS NOTED AS GRID.

BASIS OF ELEVATIONS

ELEVATIONS ARE BASED ON NGS MONUMENT HS2227 (CA 2 57 USE) (NAVD 88 DATUM). ELEVATIONS = 115.1 FROM DATASHEET RETREIVED 8/5/2013. BRASS DISK IN SOUTHWEST CORNER OF BRIDGE CURB OVER LITTLEJOHNS CREEK. 12.5 FEET WEST OF THE CENTER LINE OF THE ROAD, 1.8 FEET SOUTH OF THE SOUTH END OF THE WEST GUARDRAIL, AND ABOUT 0.50' HIGHER THAN THE ROAD.



95% SUBMITTAL - NOT FOR CONSTRUCTION

DRAFT

APPROVED FOR PROJECT CONTROL INFORMATION ONLY.

REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
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T.Y.LIN INTERNATIONAL
1545 RIVER PARK DR, SUITE 201
SACRAMENTO, CA 95815

REGISTERED PROFESSIONAL ENGINEER — M. WOLOHAN — No. 67743 — Exp. 06/30/23 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

PROJECT CONTROL

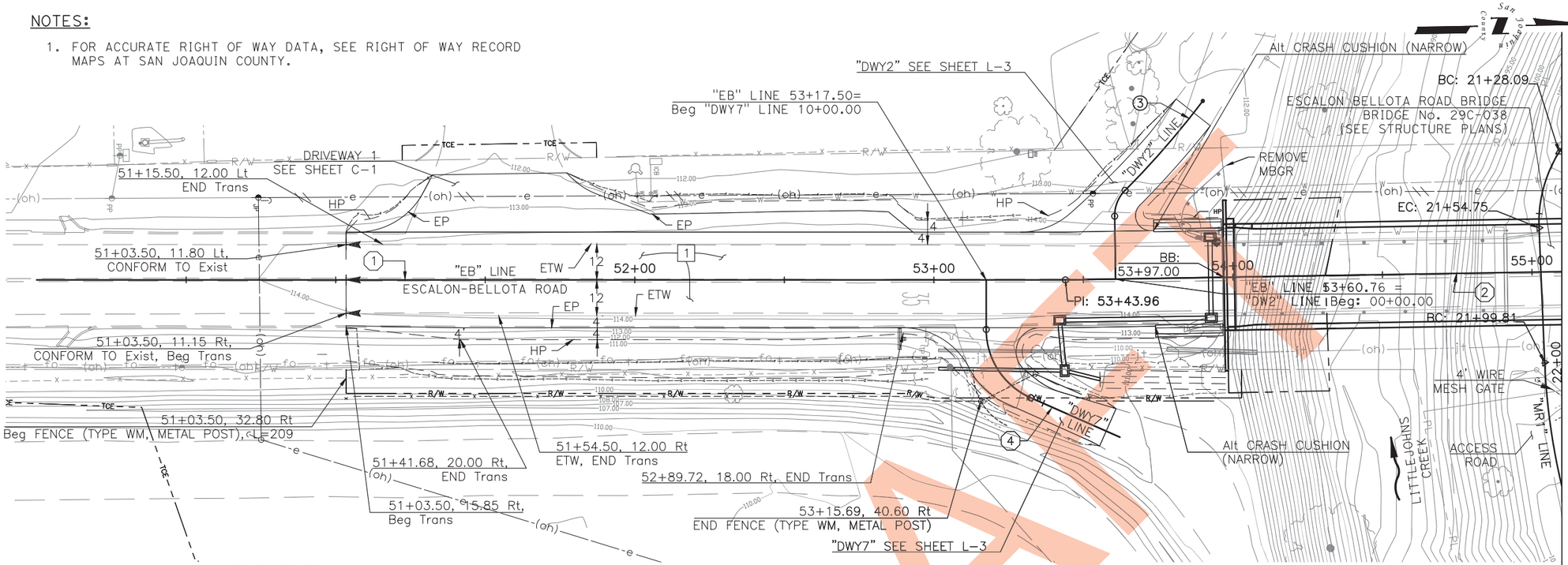
PC-1

ORIGINAL SCALE : NO SCALE
DATE: 02/01/2022
SHEET 4 OF 38

XRef List: | 077-X-TP | 077-X-LANDNET | 077-C-RD-ALT 1-400ft Approach | BRDR_ENG_ANSI_D - Copy | 077-PROPOSED RW |
Oct. 05, 2021 - 13:22:55 DWG Name: T:\Sacramento\Legacy\Prj_File\710077 - Escalon-Bellota Bridge\500_Engineering\510_Civil\511_CADD\SHEET\03-077-PC.dwg Updated By: VORTEGA

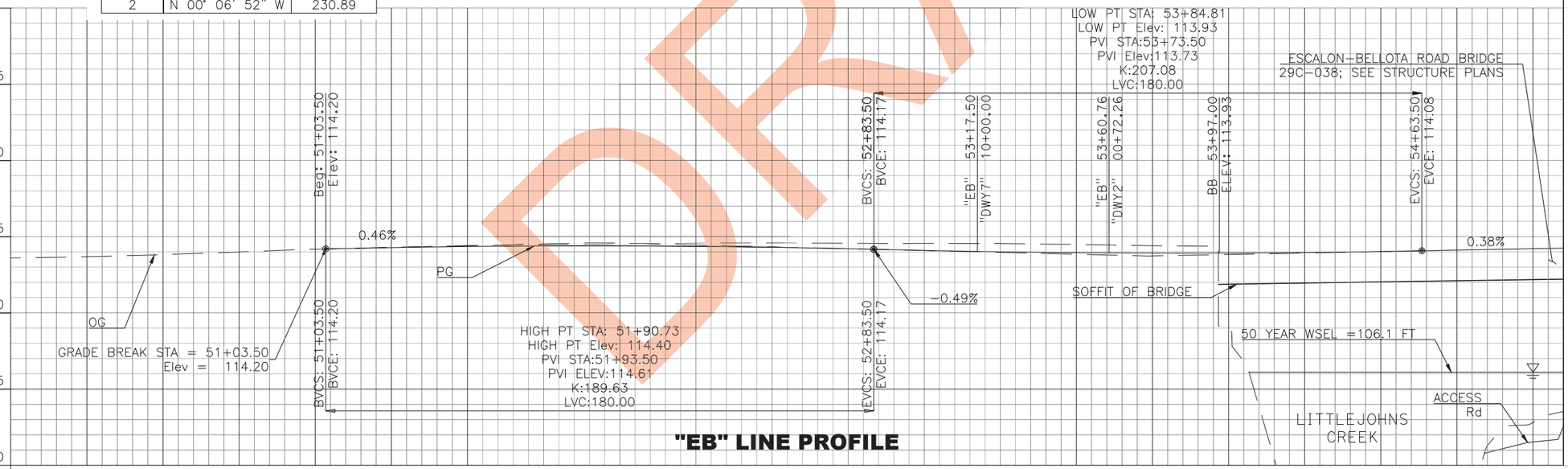
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT SAN JOAQUIN COUNTY.



LINE TABLE

No. (#)	BEARING	DISTANCE
1	N 00° 50' 20" E	343.96
2	N 00° 06' 52" W	230.89



"EB" LINE PROFILE

MATCH LINE 55+10.00
SEE SHEET L-2

LEGEND:

- CUT
- FILL
- HINGE POINT
- RSP LIMITS
- R/W RIGHT OF WAY
- TCE Temp Const Ease
- # STRUCTURAL SECTION NUMBER
- # LINE NUMBER SEE LINE TABLE
- # CURVE NUMBER SEE CURVE TABLE
- Exist TELEPHONE UTILITY POLE
- Exist POWER UTILITY POLE
- Exist FIRE HYDRANT
- Exist WATER VALVE

95% SUBMITTAL - NOT FOR CONSTRUCTION

DRAFT

REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
1810 EAST HAZELTON AVENUE STOCKTON, CA 95205
TEL: (209) 468-3000
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DRAWN: M. ALMAZAN
CHECKED: R. GIBSON
APPROVED:

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1545 RIVER PARK DR, SUITE 201
SACRAMENTO, CA 95815

REGISTERED PROFESSIONAL ENGINEER
M. WOLOHAN
No. 67743
Exp 06/30/23
CIVIL
STATE OF CALIFORNIA

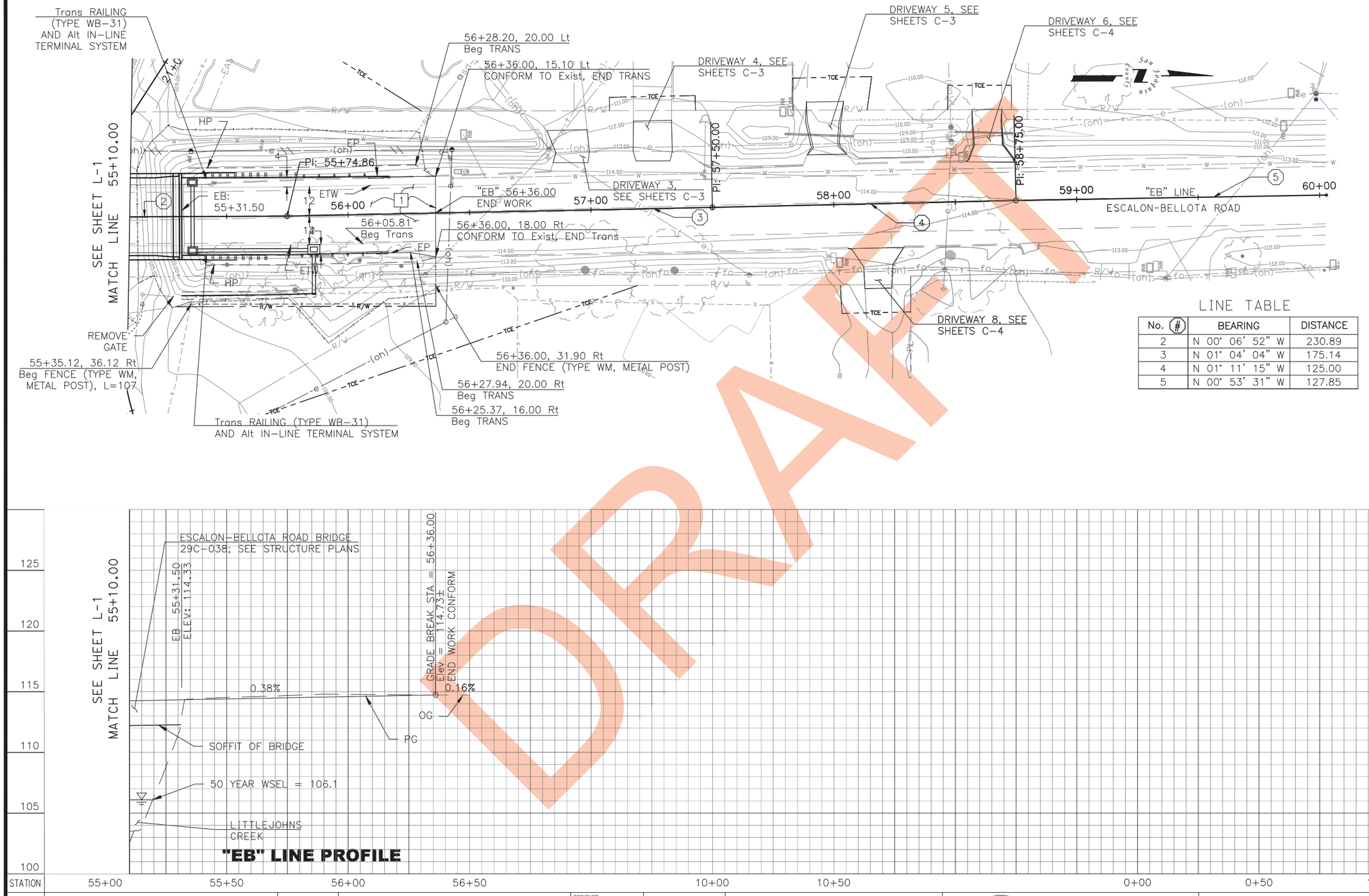
PROJECT ENGINEER

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

LAYOUT AND PROFILE

L-1
ORIGINAL SCALE :
H1"=20'; V1"=4'
02/01/2022
SHEET 5 OF 38

XRef List: | 077-X-TP | 077-C-RD-ALT 1-400ft Approach | BRDR_ENG_ANSI_D - HALF GRID | 077-X-UTIL Updated | 077-PROPOSED RW | 077-PROPOSED RW | 077-X-LANDNET |
Oct. 05, 2021 - 13:31:08 DWG Name: T:\Sacramento\Legacy\Prj_File\710077 - Escalon-Bellota Bridge\500_Engineering\510_Civil\511_CADD\SHEET\04-077-L.dwg Updated By: VORTEGA



LINE TABLE

No. (#)	BEARING	DISTANCE
2	N 00° 06' 52" W	230.89
3	N 01° 04' 04" W	175.14
4	N 01° 11' 15" W	125.00
5	N 00° 53' 31" W	127.85

DRAFT

95% SUBMITTAL - NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
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T.Y.LIN INTERNATIONAL
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SACRAMENTO, CA 95815

REGISTERED PROFESSIONAL ENGINEER M. WOLOHAN No. 67743 Exp. 06/30/23 CIVIL STATE OF CALIFORNIA

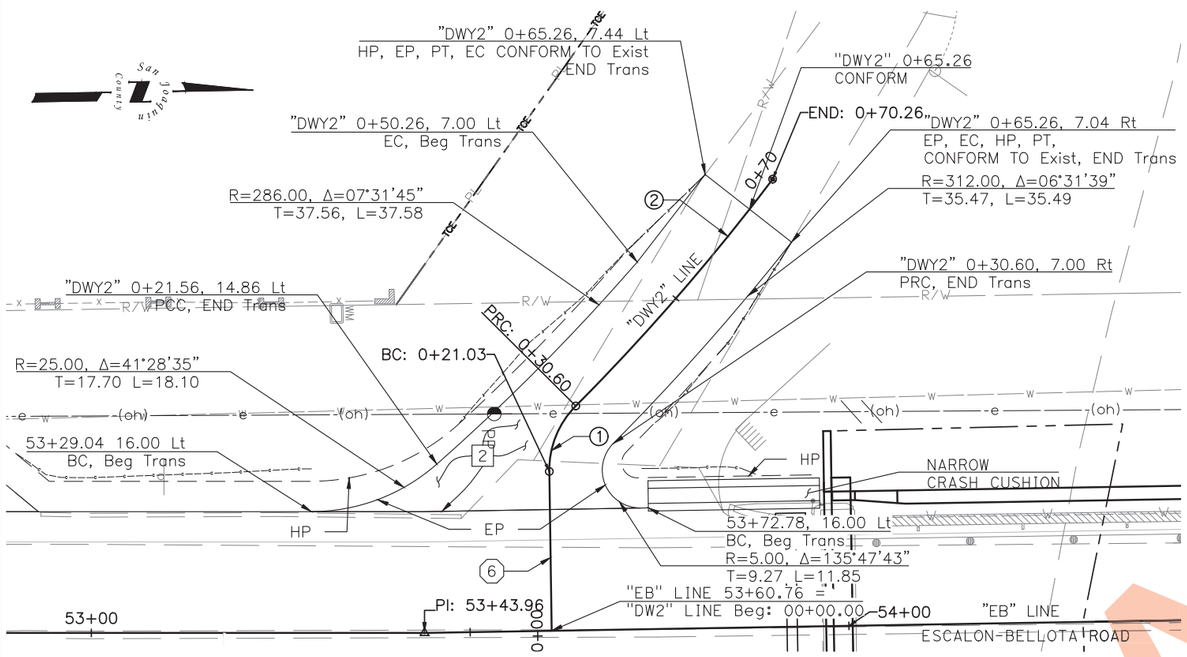
PROJECT ENGINEER

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

LAYOUT AND PROFILE

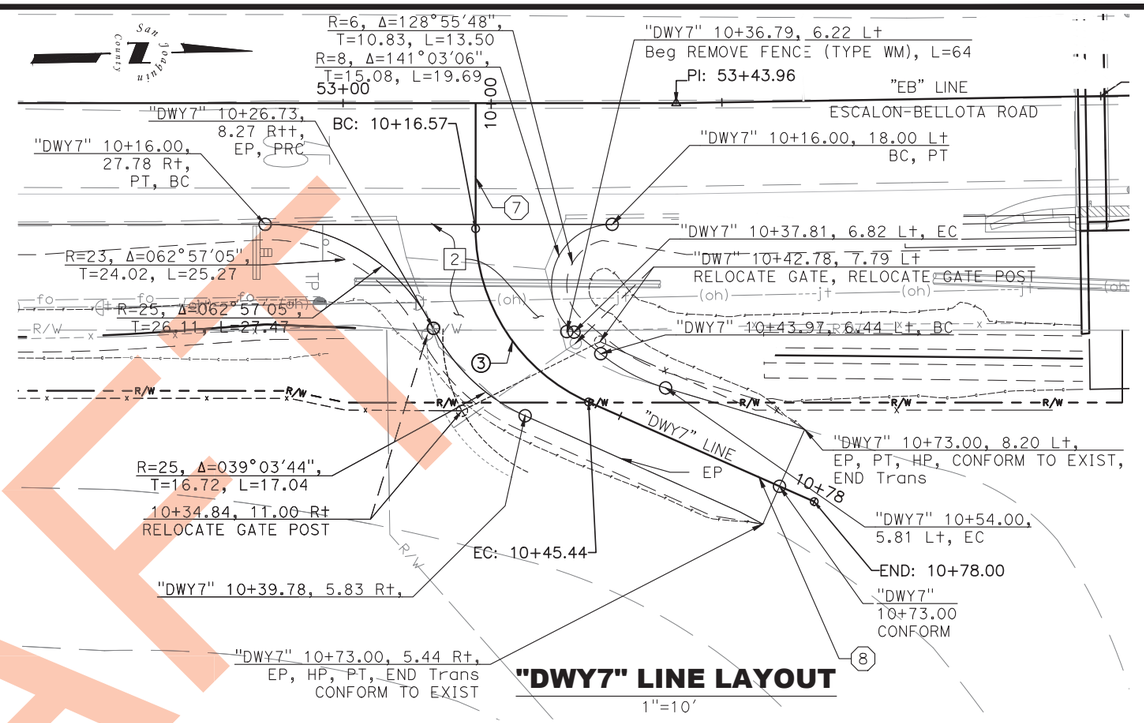
L-2
ORIGINAL SCALE: H1"=20'; V1"=4'
02/01/2022
SHEET 6 OF 38

XRef List: | 077-X-TP | 077-C-RD-ALT 1-400ft Approach | BRDR_ENG_ANSI_D - HALF GRID | 077-X-UTIL Updated | 077-PROPOSED RW | 077-PROPOSED RW | 077-X-LANDNET |
Oct. 05, 2021 - 13:31:08 DWG Name: T:\Sacramento\Legacy\Prj_File\710077 - Escalon-Bellota Bridge\300_Engineering\510_Civil\511_CADD\SHEET\04-077-L.dwg Updated By: VORTEGA



"DWY2" LINE LAYOUT

1"=10'



"DWY7" LINE LAYOUT

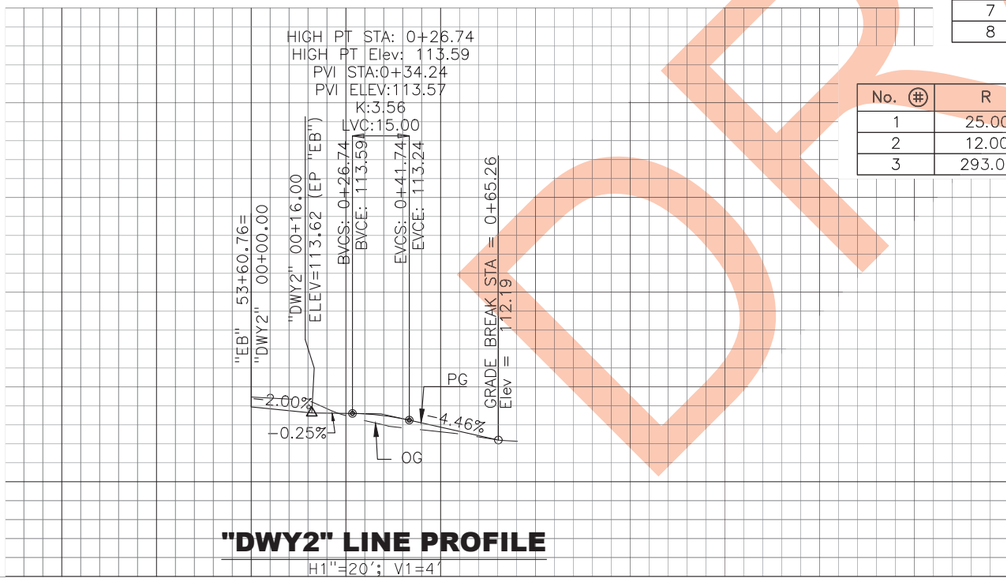
1"=10'

LINE TABLE

No. (#)	BEARING	DISTANCE
6	S 89° 09' 40" E	16.57
7	S 24° 40' 12" E	32.56
8	N 90° 00' 00" W	21.03

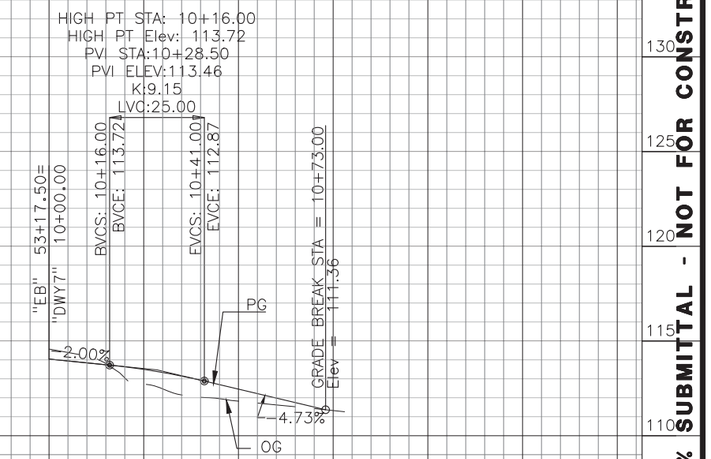
CURVE TABLE

No. (#)	R	Δ	T	L
1	25.00	66° 10' 08"	16.29	28.87
2	12.00	45° 40' 45"	5.05	9.57
3	293.00	07° 45' 24"	19.86	39.67



"DWY2" LINE PROFILE

H1"=20'; V1=4'



"DWY7" LINE PROFILE

H1"=20'; V1=4'

STATION: 0+00 0+50 1+00 | 10+00 10+50

REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
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ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

LAYOUT AND PROFILE

L-3
ORIGINAL SCALE: AS SHOWN
02/01/2022
SHEET 7 OF 38

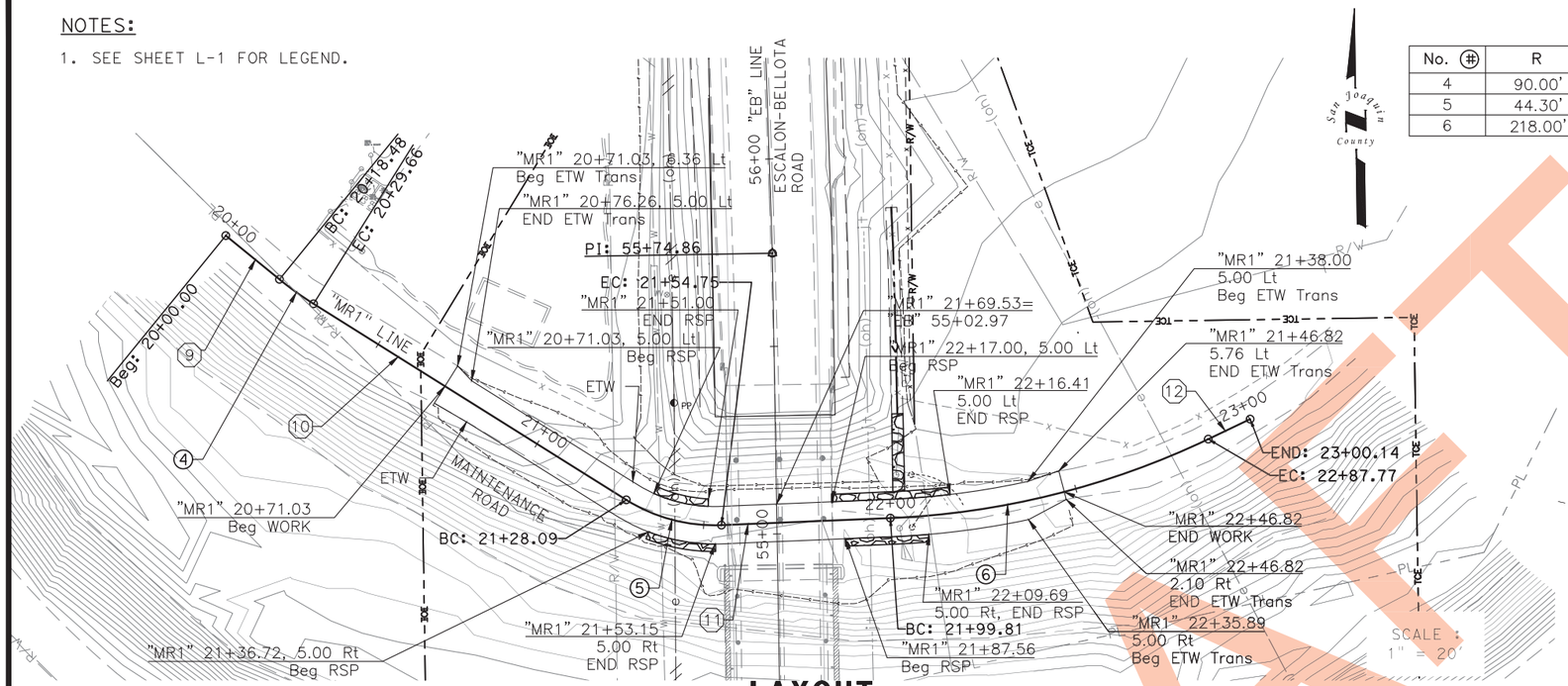
95% SUBMITTAL - NOT FOR CONSTRUCTION

DRAFT

XRef List: | 077-X-TP | 077-C-RD-ALT 1-400ft Approach | BRDR_ENG_ANSI_D - HALF GRID | 077-X-UTIL Updated | 077-PROPOSED RW |
Oct. 05, 2021 - 15:49:14 DWG Name: T:\Sacramento\Legacy\Prj_File\710077 - Escalon-Bellota Bridge\300_Engineering\510_Civil\511_CADD\SHEET\04a-077-L3.dwg Updated By: VORTEGA

NOTES:

1. SEE SHEET L-1 FOR LEGEND.



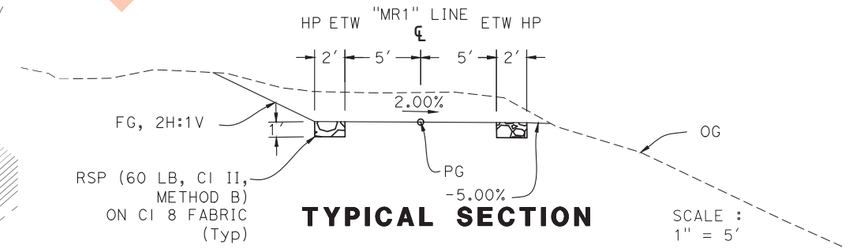
LAYOUT

CURVE TABLE

No. (#)	R	Δ	T	L
4	90.00'	07° 06' 59"	5.60'	11.18'
5	44.30'	34° 28' 32"	13.75'	26.66'
6	218.00'	23° 06' 58"	44.58'	87.95'

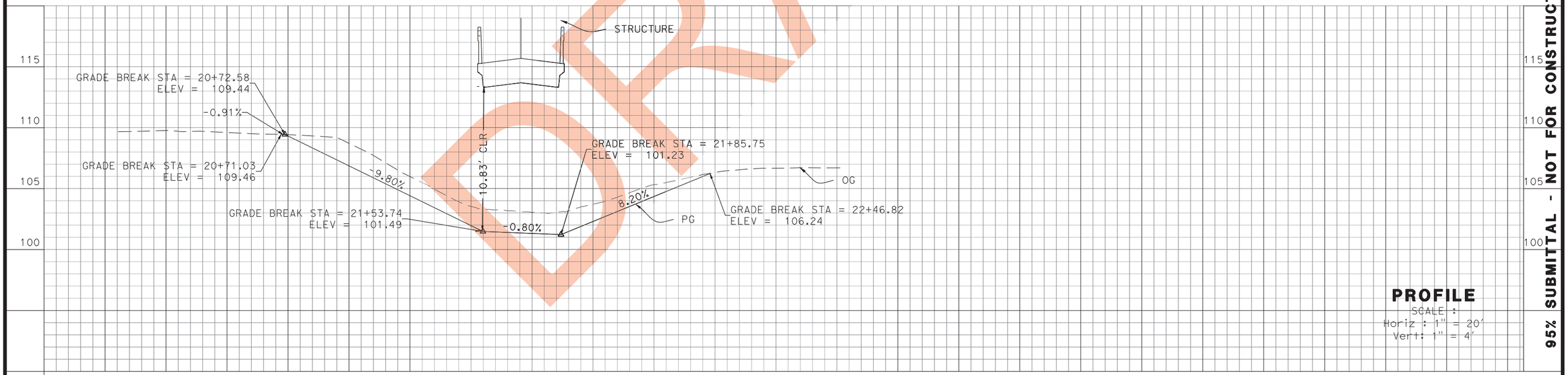
LINE TABLE

No. (#)	BEARING	DISTANCE
9	S 49° 57' 38" E	18.48'
10	S 57° 04' 37" E	98.44'
11	N 88° 26' 51" E	45.06'
12	N 65° 19' 53" E	12.38'



TYPICAL SECTION

SCALE :
1" = 5'



PROFILE

SCALE :
Horiz : 1" = 20'
Vert: 1" = 4'

95% SUBMITTAL - NOT FOR CONSTRUCTION

STATION 20+00 21+00 22+00 23+00 24+00

REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
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FAX: (209) 468-2999

DESIGNED: T. CLIFFORD
DRAWN: M. ALMAZAN
CHECKED: R. GIBSON
APPROVED:

TY·LIN INTERNATIONAL
1545 RIVER PARK DR, SUITE 201
SACRAMENTO, CA 95815

REGISTERED PROFESSIONAL ENGINEER
M. WOLOHAN
No. 67743
Exp. 06/30/23
CIVIL
STATE OF CALIFORNIA

PROJECT ENGINEER

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

LAYOUT AND PROFILE

L-4

ORIGINAL SCALE : SEE ABOVE

02/01/2022

SHEET 8 OF 38

DRAFT

XRef List: | BRDR_ENG_ANSI_D - Copy | 077-X-LANDNET | 077-C-RD-ALT 1-400ft Approach | 077-PROPOSED RW |
Oct. 05, 2021 - 13:37:59 DWG Name: T:\Sacramento\Legacy\Prj_File\710077 - Escalon-Bellota Bridge\500_Engineering\510_Civil\511_CADD\SHEET\backup\04b-077-L4.dwg Updated By: VORTEGA

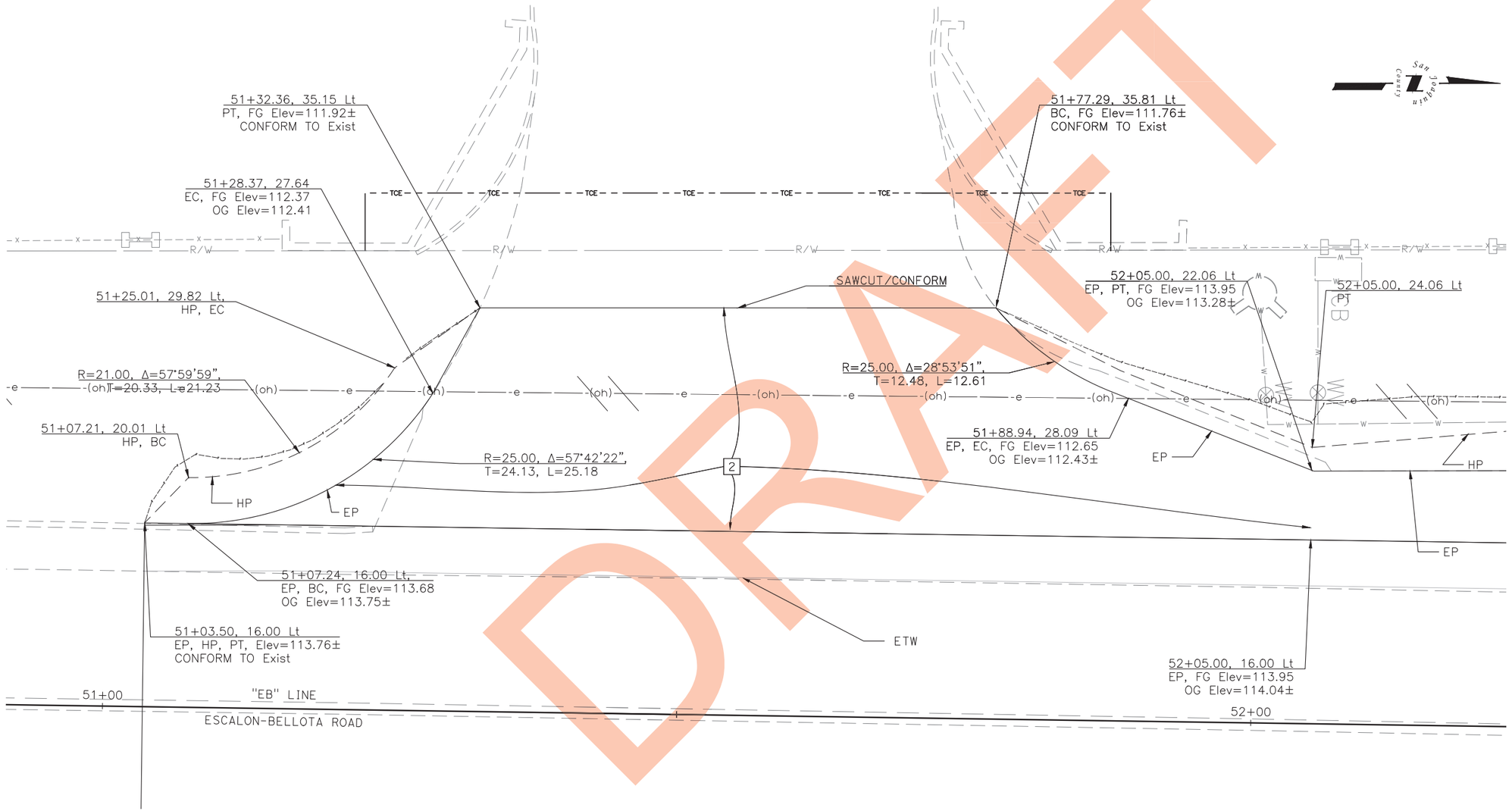
XRef List: | 077-X-TP | 077-C-RD-ALT 1-400ft Approach | BRDR_ENG_ANSI_D - Copy | 077-PROPOSED RW | 077-X-UTIL for C Sheet |
Oct. 05, 2021 - 13:46:38 DWG Name: T:\Sacramento\Legacy\Prj_File\710077 - Escalon-Bellota Bridge\500_Engineering\510_Civil\511_CADD\SHEET\05-077-C.dwg Updated By: VORTEGA

LEGEND:

- CUT
- FILL
- HINGE POINT
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- R/W — RIGHT OF WAY
- PROPERTY LINE
- [#] STRUCTURAL SECTION NUMBER

TYPICAL STRUCTURAL SECTION

[2] 2" HMA (TYPE A)
3" CL 2 AB



DRIVEWAY 1

DRAFT

95% SUBMITTAL - NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
1810 EAST HAZELTON AVENUE STOCKTON, CA 95205
TEL: (209) 468-3000
FAX: (209) 468-2999

DESIGNED: T. CLIFFORD
DRAWN: M. ALMAZAN
CHECKED: R. GIBSON
APPROVED:

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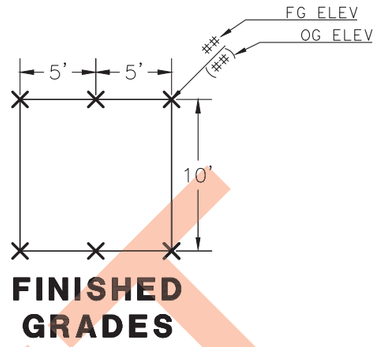
ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

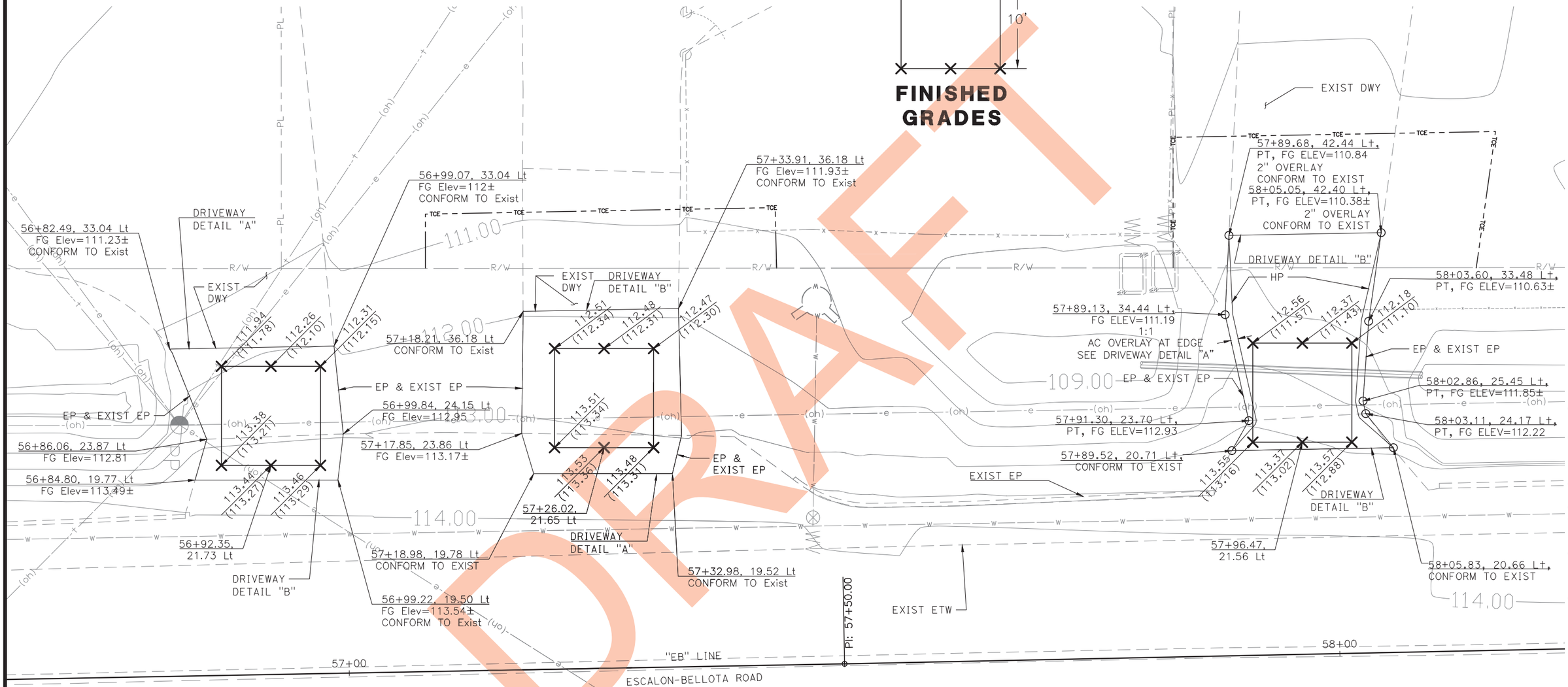
CONSTRUCTION DETAILS

C-1
ORIGINAL SCALE :
SCALE: 1" = 5'
DATE: 02/01/2022
SHEET 9 OF 38

NOTES:

1. SEE SHEET C-1 FOR NOTES AND LEGEND.





DRIVEWAY 3 **DRIVEWAY 4** **DRIVEWAY 5**

AC OVERLAY AT DRIVEWAYS

DRAFT

95% SUBMITTAL - NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
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APPROVED:

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CIVIL
STATE OF CALIFORNIA

PROJECT ENGINEER

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

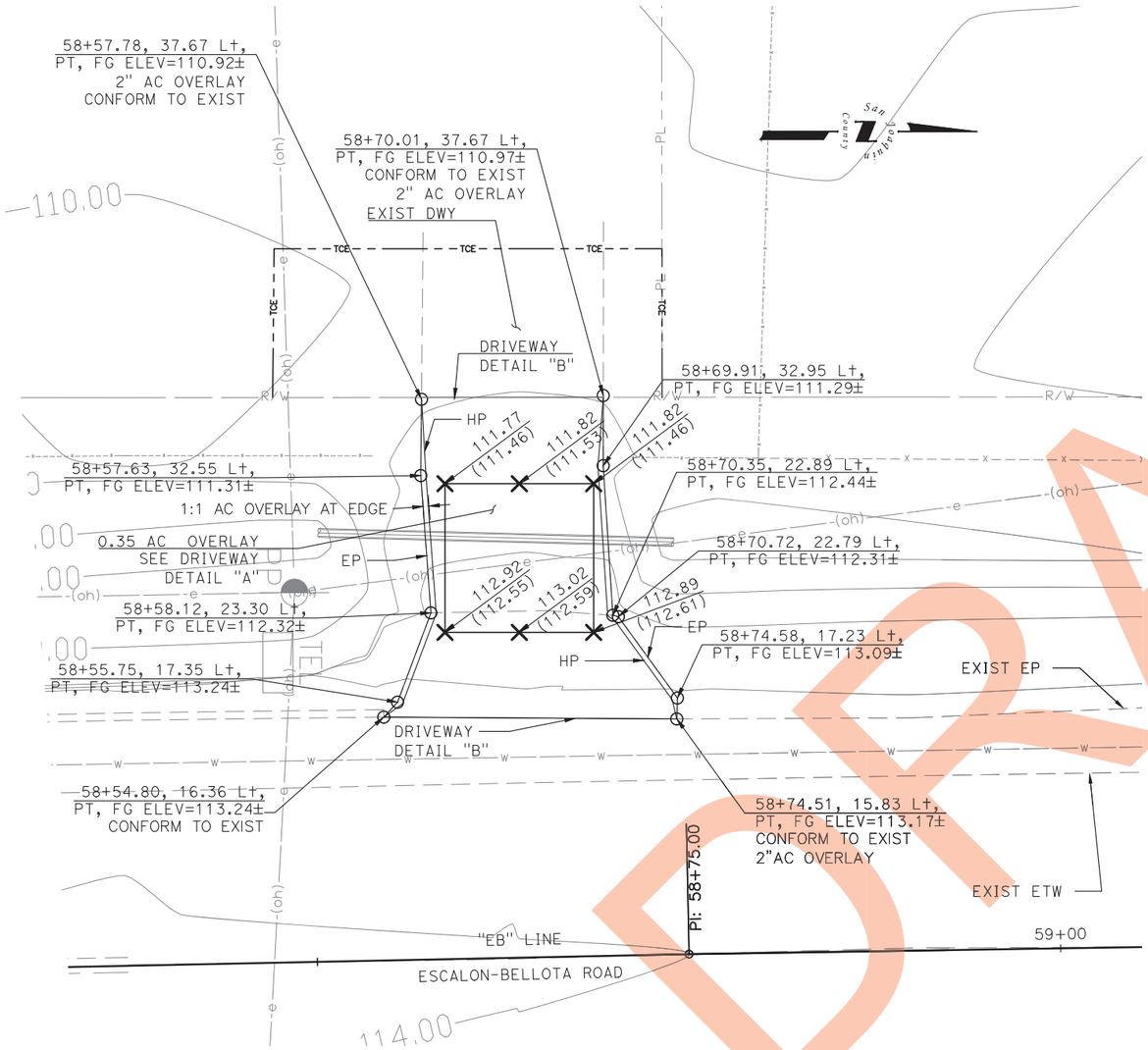
CONSTRUCTION DETAILS

C-2
ORIGINAL SCALE :
SCALE: 1" = 5'
DATE: 02/01/2022
SHEET 10 OF 38

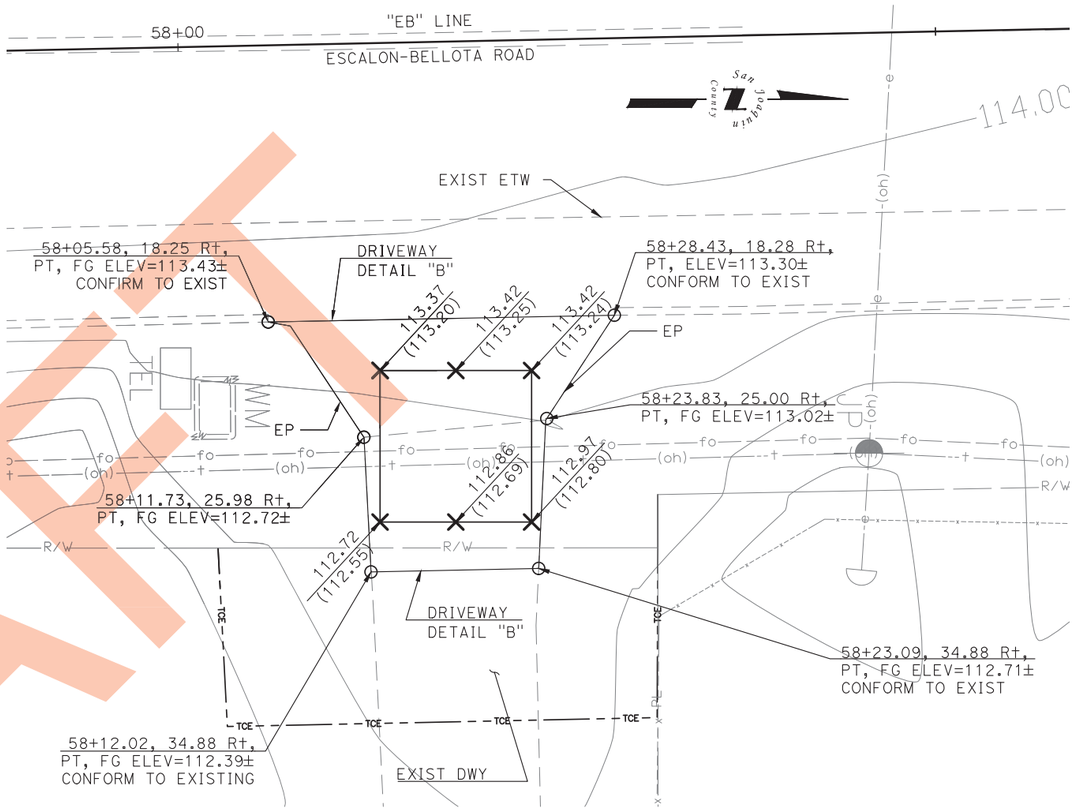
XRef List: | 077-X-TP | 077-C-RD-ALT 1-400ft Approach | BRDR_ENG_ANSI_D - Copy | 077-PROPOSED RW | 077-X-UTIL for C Sheet |
Oct. 05, 2021 - 13:46:38 DWG Name: T:\Sacramento\Legacy\Prj_File\710077 - Escalon-Bellota Bridge\500_Engineering\510_Civil\511_CADD\SHEET\05-077-C.dwg Updated By: VORTEGA

NOTES:

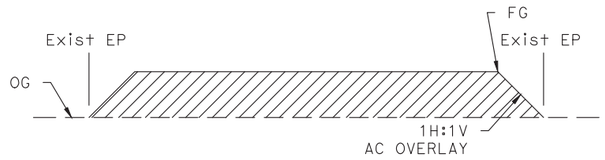
1. SEE SHEET C-1 FOR NOTES AND LEGEND.



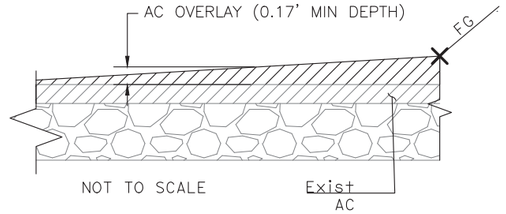
DRIVEWAY 6



DRIVEWAY 8



DRIVEWAY DETAIL "A"



DRIVEWAY DETAIL "B"

AC OVERLAY AT DRIVEWAYS

DRAFT

95% SUBMITTAL - NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
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1810 EAST HAZELTON AVENUE STOCKTON, CA 95205
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APPROVED:

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REGISTERED PROFESSIONAL ENGINEER
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No. 67743
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CIVIL
STATE OF CALIFORNIA

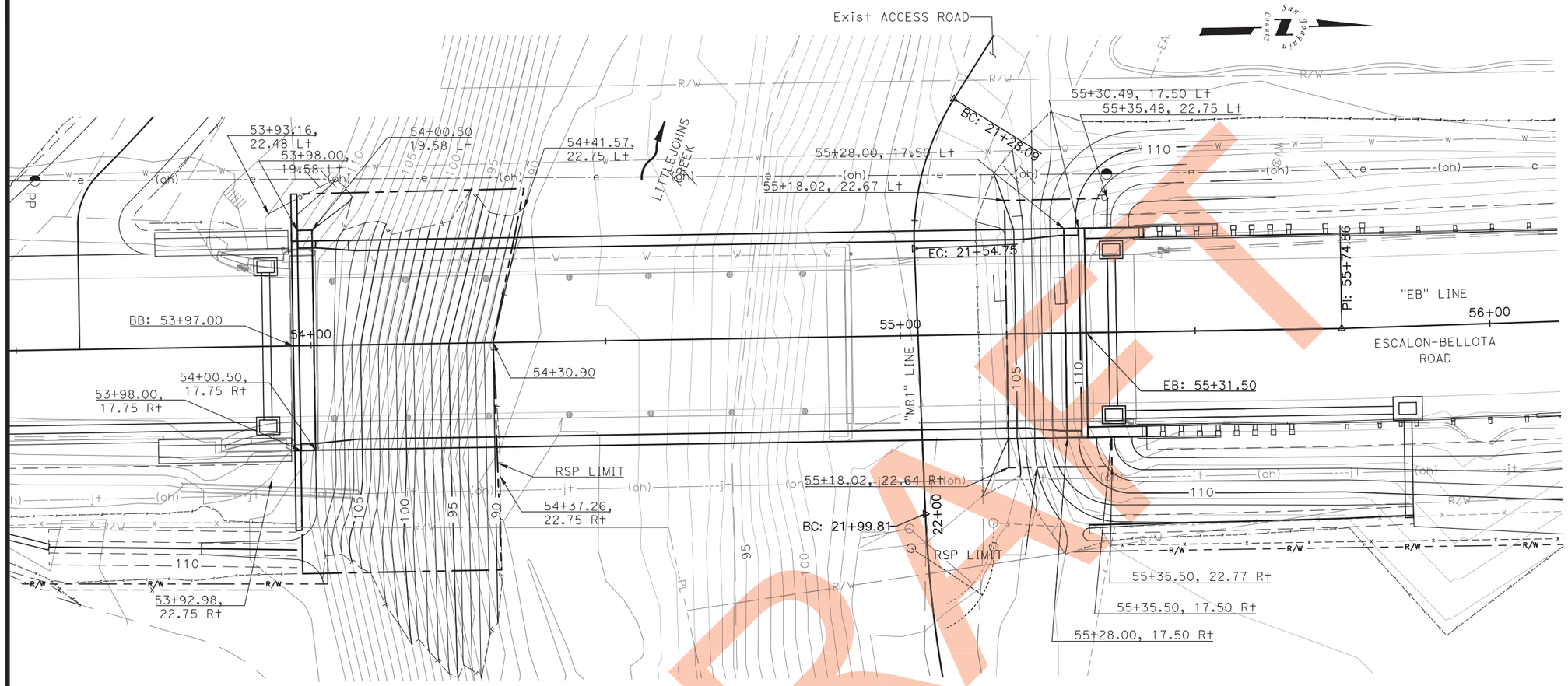
PROJECT ENGINEER

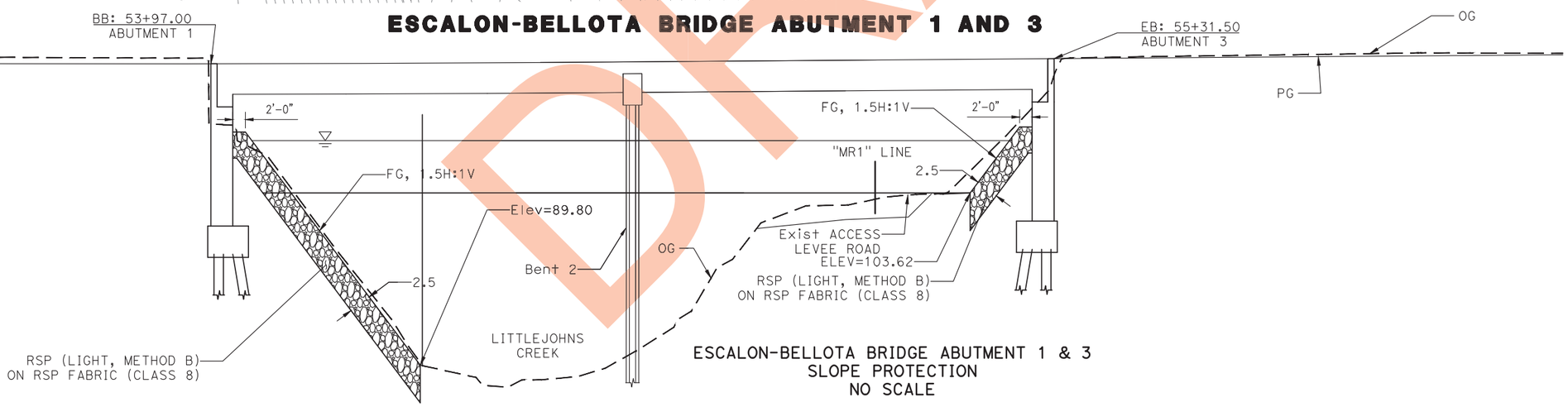
ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

CONSTRUCTION DETAILS

C-3
ORIGINAL SCALE: SCALE: 1" = 5'
DATE: 02/01/2022
SHEET 11 OF 38

XRef List: | 077-X-TP | 077-C-RD-ALT 1-400ft Approach | BRDR_ENG_ANSI_D - Copy | 077-PROPOSED RW | 077-X-UTIL for C Sheet |
Oct. 05, 2021 - 13:46:38 DWG Name: T:\Sacramento\Legacy\Prj_File\710077 - Escalon-Bellota Bridge\500_Engineering\510_Civil\511_CAD\SHEET\05-077-C.dwg Updated By: VORTEGA





ESCALON-BELLOTA BRIDGE ABUTMENT 1 & 3
SLOPE PROTECTION
NO SCALE

APPROVED FOR CONTOUR GRADING WORK ONLY.

LEGEND:

- CUT
- FILL
- HINGE POINT
- RSP LIMITS
- RIGHT OF WAY
- PROPERTY LINE

95% SUBMITTAL - NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
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SACRAMENTO, CA 95815

REGISTERED PROFESSIONAL ENGINEER — M. WOLOHAN — No. 67743 — Exp. 06/30/23 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

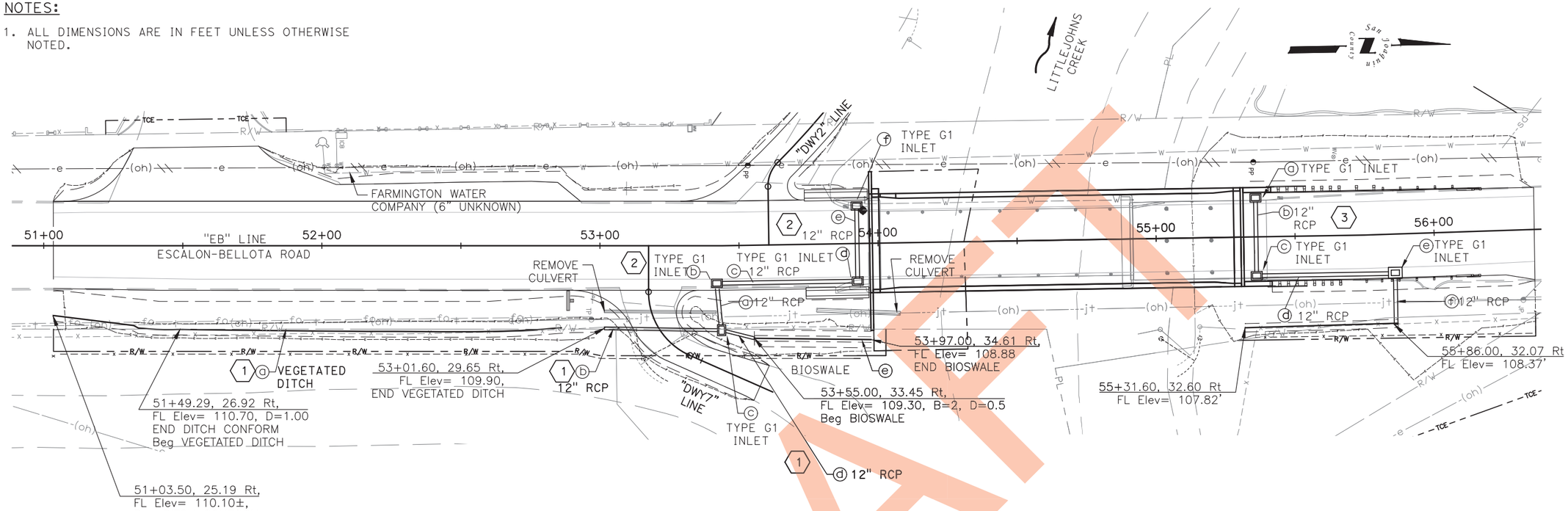
CONTOUR GRADING PLANS

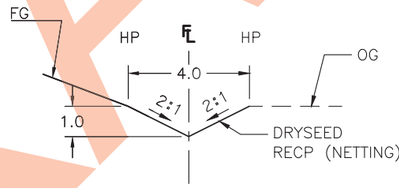
G-1
ORIGINAL SCALE : 1"=10'
02/01/2022
SHEET 12 OF 38

XRef List: | 077-X-TP | 077-C-RD-ALT 1-400ft Approach | BRDR_ENG_ANSI_D - HALF GRID | 077-C-GD-ALT 1-400ft Approach | 077-C-GR-ALT 1-400ft Approach |
Oct. 05, 2021 - 13:53:06 DWG Name: T:\Sacramento\Legacy\Prj_File\710077 - Escalon-Bellota Bridge\500_Engineering\510_Civil\511_CADD\SHEET\07-077-G.dwg Updated By: VORTEGA

NOTES:

1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.

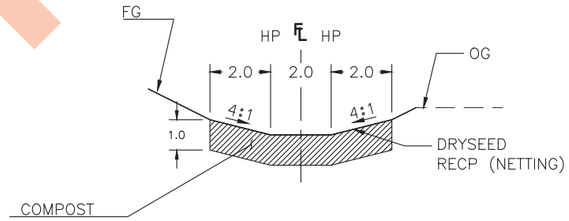




VEGETATED DITCH SECTION

NO SCALE

1 ⓐ 4 ⓐ



BIOFILTRATION SWALE DETAIL

NO SCALE

1 ⓓ

APPROVED FOR DRAINAGE WORK ONLY.

95% SUBMITTAL - NOT FOR CONSTRUCTION

DRAFT

REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
1810 EAST HAZELTON AVENUE STOCKTON, CA 95205
TEL: (209) 468-3000
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DESIGNED: T. CLIFFORD
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REGISTERED PROFESSIONAL ENGINEER M. WOLOHAN No. 67743 Exp. 06/30/23 CIVIL STATE OF CALIFORNIA

PROJECT ENGINEER

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

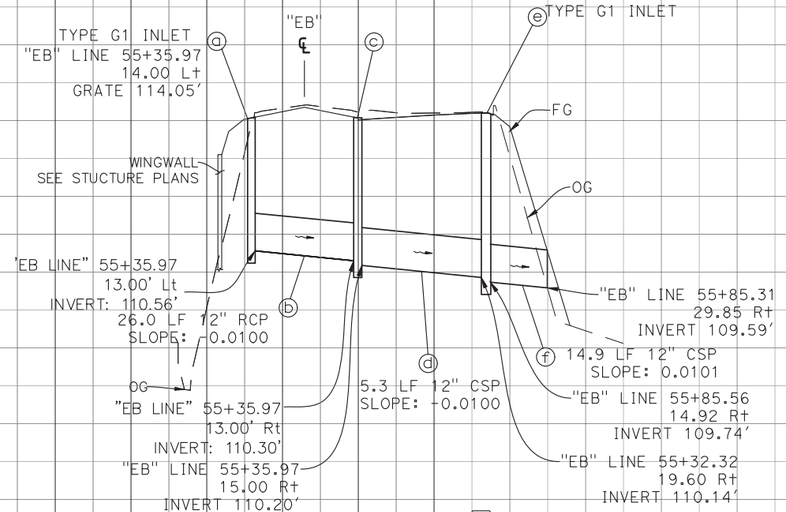
DRAINAGE PLAN AND DETAILS

D-1
ORIGINAL SCALE: 1"=20'
02/01/2022
SHEET 13 OF 38

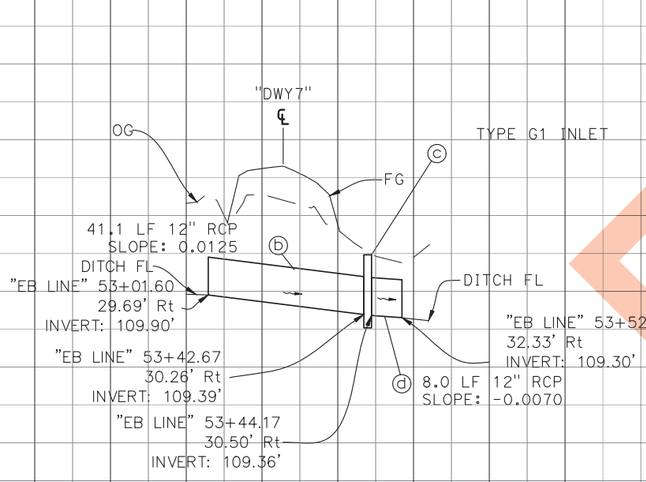
XRef List: | 077-X-TP | 077-X-UTIL | 077-C-RD-ALT 1-400ft Approach | BRDR_ENG_ANSI_D - HALF GRID | 077-PROPOSED_RW | 077-X-LANDNET |
Oct. 05, 2021 - 13:58:25 DWG Name: T:\Sacramento\Legacy\Prj_File\710077 - Escalon-Bellota Bridge\500_Engineering\510_Civil\511_CADD\SHEET\08-077-D.dwg Updated By: VORTEGA

NOTES:

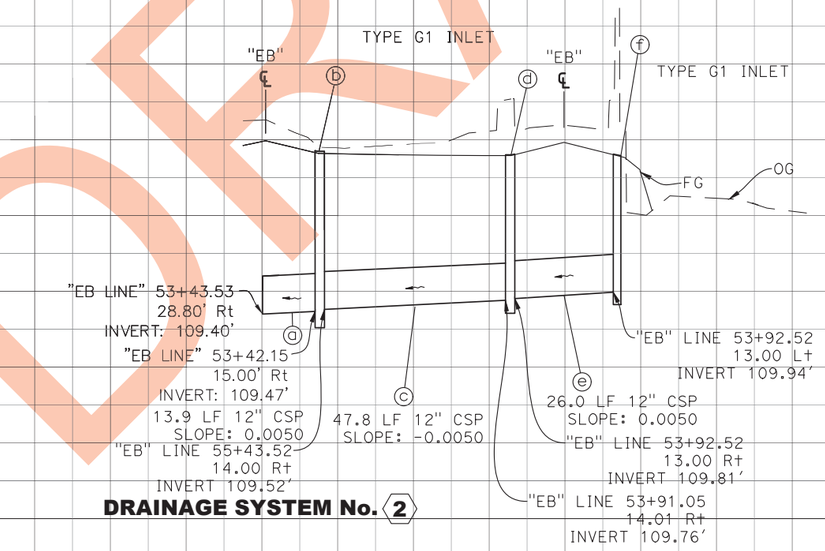
1. SEE SHEET D-1 FOR NOTES AND LEGEND.



DRAINAGE SYSTEM No. 3



DRAINAGE SYSTEM No. 1



DRAINAGE SYSTEM No. 2

DRAFT

95% SUBMITTAL - NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
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DRAWN: M. ALMAZAN
CHECKED: R. GIBSON
APPROVED:

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REGISTERED PROFESSIONAL ENGINEER — M. WOLOHAN — No. 67743 — Exp. 06/30/23 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

DRAINAGE PROFILE

DP-1
ORIGINAL SCALE : H1"=20'; V1"=2'
02/01/2022
SHEET 14 OF 38

XRef List: | 077-C-RD-ALT 1-400ft Approach | 077-Drainage-400ft Approach | BRDR_ENG_ANSI_D - FULL GRID |
Oct. 06, 2021 - 10:43:34 DWG Name: T:\Sacramento\Legacy\Prj_File\710077 - Escalon-Bellota Bridge\500_Engineering\510_Civil\511_CADD\SHEET\09-077-DP.dwg Updated By: VORTEGA

NOTES:

1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN.
2. SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.

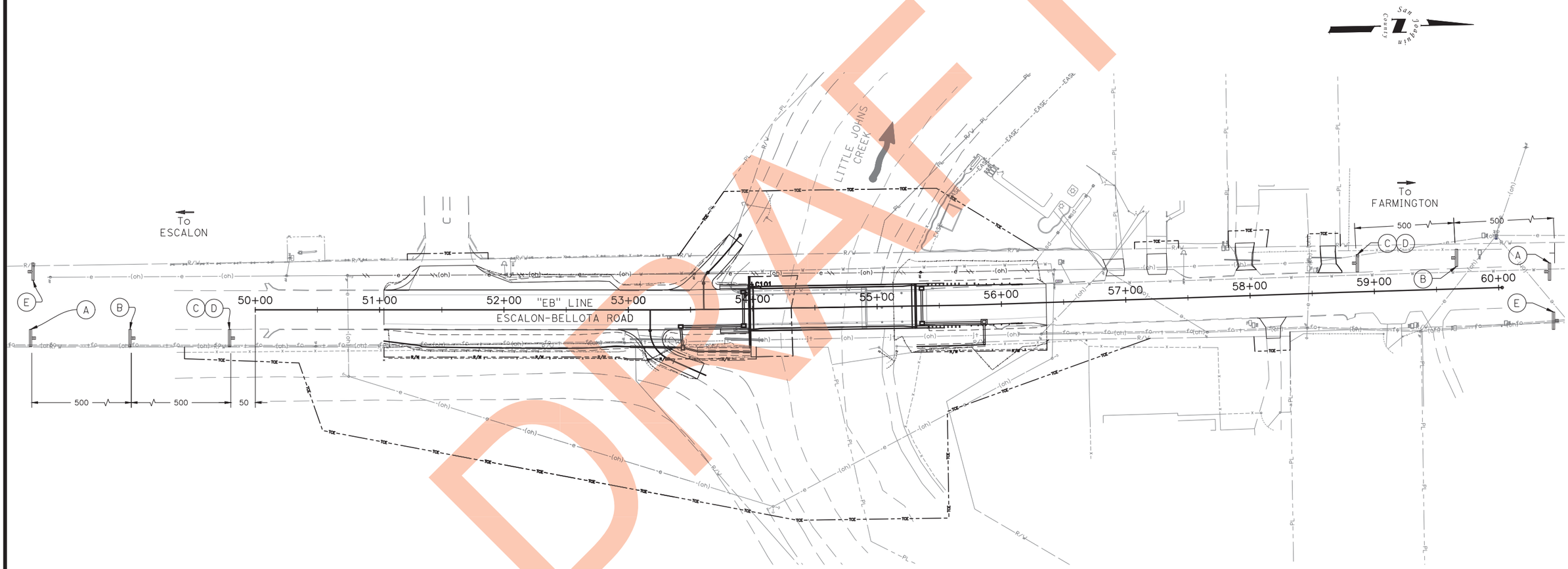
LEGEND

(A) SIGN NUMBER

SIGN LOCATION, ONE POST

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN NO. (X)	SIGN CODE	SIGN MESSAGE	PANEL SIZE	NUMBER OF POSTS AND SIZE	No. OF SIGNS
(A)	W20-1	ROAD WORK AHEAD	36" x 36"	1 - 4" x6"	2
(B)	W3-5A	25 MPH SPEED ZONE AHEAD	36" x 36"	1 - 4" x6"	2
(C)	G20-5AP	WORK ZONE	24" x 18"	1 - 4" x6"	2
(D)	R2-1	SPEED LIMIT 25 MPH	24" x 30"		2
(E)	G20-2	END ROAD WORK	36" x 18"	1 - 4" x6"	2



DRAFT

95% SUBMITTAL - NOT FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY.

REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
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REGISTERED PROFESSIONAL ENGINEER
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No. 67743
Exp 06/30/23
CIVIL
STATE OF CALIFORNIA

PROJECT ENGINEER

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)
CONSTRUCTION AREA SIGNS

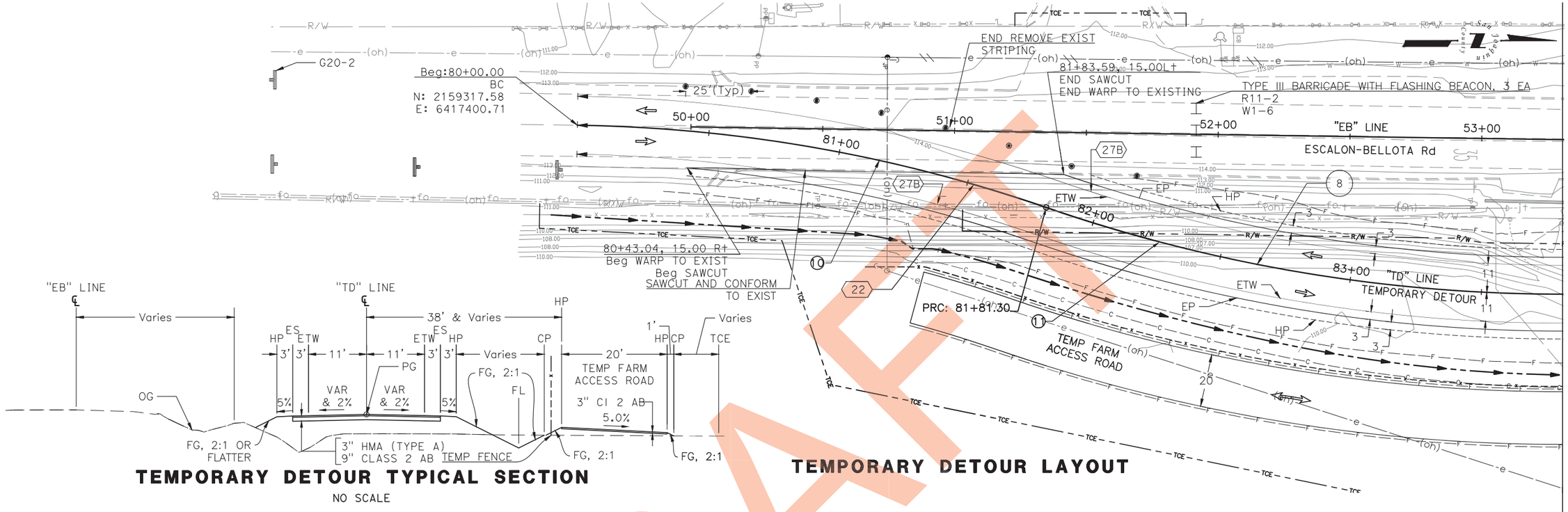
CS-1
ORIGINAL SCALE: 1"=40'
DATE: 02/01/2022
SHEET 15 OF 38

XRef List: | 077-X-TP | 077-X-UTIL | 077-X-LANDNET | 077-C-RD-ALT 1-400ft Approach | 077-PROPOSED_RW | BRDR_ENG_ANSI_D - Copy |
Oct. 05, 2021 - 14:19:58 DWG Name: T:\Sacramento\Legacy\Prj_File\710077 - Escalon-Bellota Bridge\500_Engineering\510_Civil\511_CADD\SHEET\12-077-CS.dwg Updated By: VORTEGA

DRAFT

TEMPORARY DETOUR TYPICAL SECTION

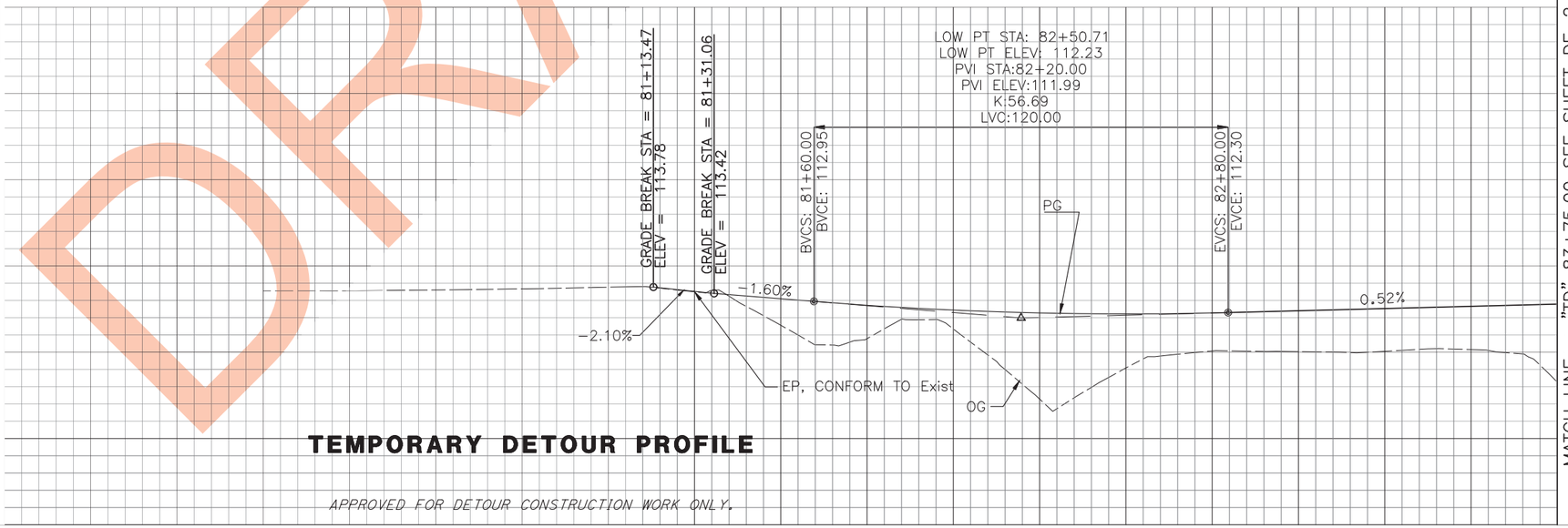
NO SCALE



TEMPORARY DETOUR LAYOUT

CURVE TABLE

No. (#)	R	Δ	T	L
10	570.00	18°13'28"	91.42	180.54
11	600.00	24°41'46"	131.35	258.62



TEMPORARY DETOUR PROFILE

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY.

95% SUBMITTAL - NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	DATE

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ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

DETOUR PLAN

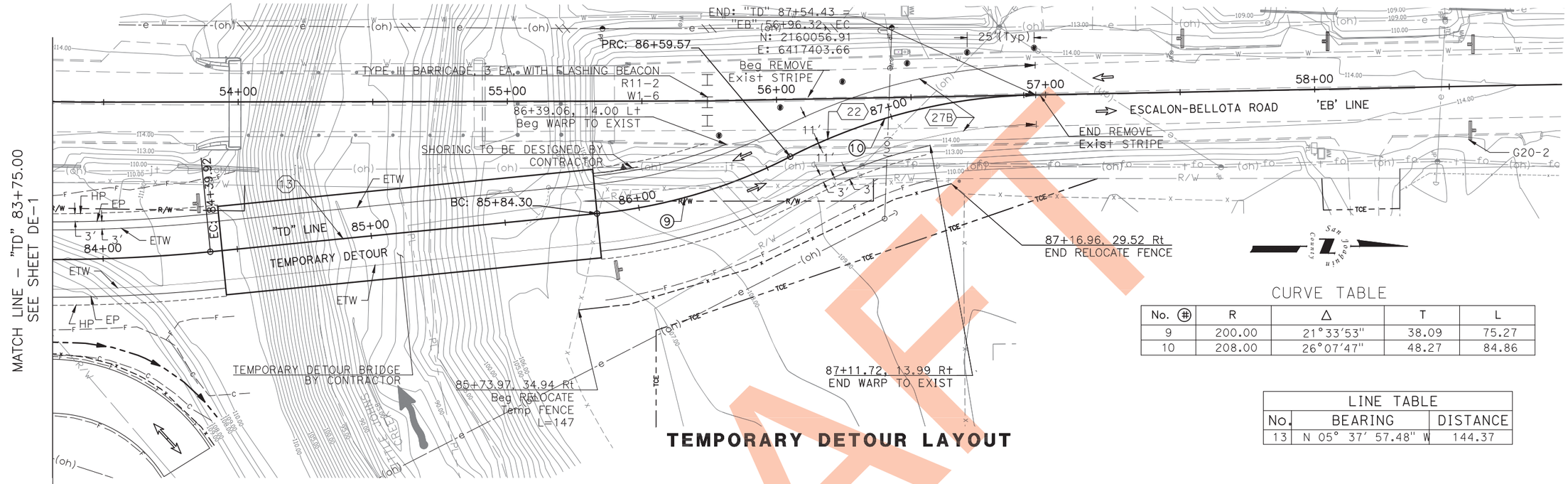
DE-1

ORIGINAL SCALE: 1" = 20'

02/01/2022

SHEET 16 OF 38

XRef List: | 077-X-TP | 077-X-UTIL | BRDR_ENG_ANSI_D - HALF GRID | 077-PROPOSED RW | 077-Detour C-RD | BRDR_ENG_ANSI_D - Copy | 077-X-LANDNET |
Oct. 05, 2021 - 14:59:40 DWG Name: T:\Sacramento\Legacy\Prj_File\710077 - Escalon-Bellota Bridge\500_Engineering\510_Civil\511_CADD\SHEET\14-077-DE.dwg Updated By: VORTEGA



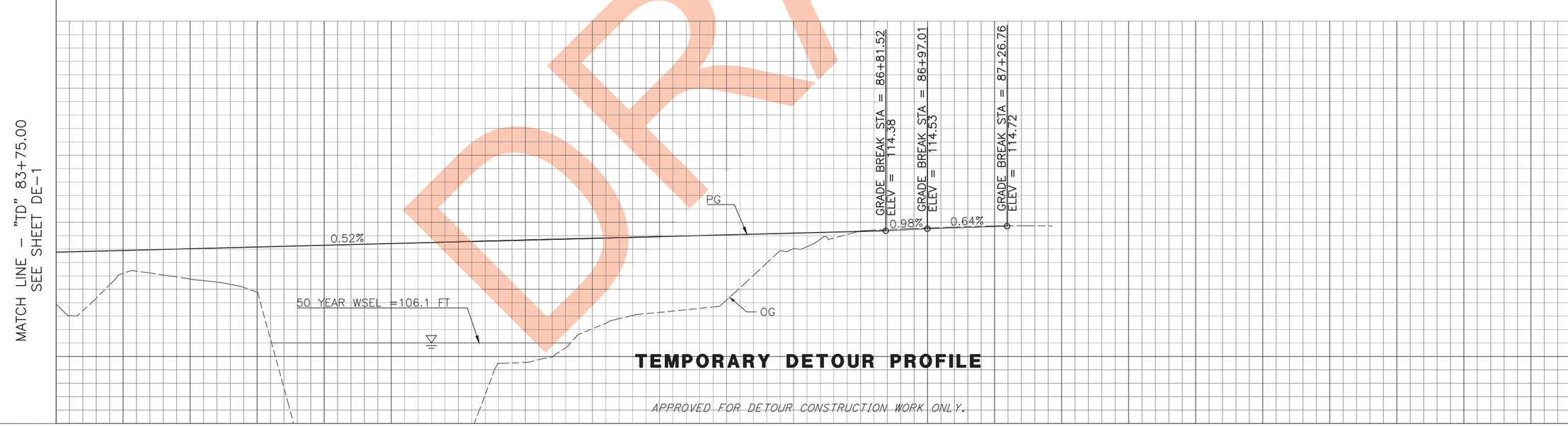
TEMPORARY DETOUR LAYOUT

CURVE TABLE

No. ⑨	R	Δ	T	L
9	200.00	21°33'53"	38.09	75.27
10	208.00	26°07'47"	48.27	84.86

LINE TABLE

No.	BEARING	DISTANCE
13	N 05° 37' 57.48" W	144.37



TEMPORARY DETOUR PROFILE

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY.

DRAFT

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REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
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1810 EAST HAZELTON AVENUE STOCKTON, CA 95205
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STATE OF CALIFORNIA

PROJECT ENGINEER

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

DETOUR PLAN

DE-2

ORIGINAL SCALE : 1" = 40'

02/01/2022

SHEET 17 OF 38

XRef List: | 077-X-TP | 077-X-UTIL | BRDR_ENG_ANSI_D - HALF GRID | 077-PROPOSED RW | 077-Detour C-RD | BRDR_ENG_ANSI_D - Copy | 077-X-LANDNET |
Oct. 05, 2021 - 14:59:40 DWG Name: T:\Sacramento\Legacy\Prj_File\710077 - Escalon-Bellota Bridge\500_Engineering\510_Civil\511_CADD\SHEET\14-077-DE.dwg Updated By: VORTEGA

NOTES:

1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
2. ALL STATIONING IS ALONG THE "EB" LINE UNLESS OTHERWISE SPECIFIED.

ROADWAY QUANTITIES

ALIGNMENT	STATION	ROADWAY EXCAVATION	EMBANLMENT (N)	HMA (TYPE A)	CL 2AB	MGS	ANTI-LINE TERMINAL SYSTEM	TRANS RAILING (TYPE WB-31)	VEGETATION CONTROL (MINOR CONCRETE)	ALT CRASH CUSHION (NARROW)	FENCE (TYPE WM, METAL POST	4' WIRE MESH GATE	RELOCATE GATE	REMOVE TRAFFIC STRIPE
		CY	CY	TON	CY	LF	EA	EA	SQYD	EA	EA	EA		
EB	51+03.50 TO 53+97.00 (BB)	958	215	387	644									142
EB	(EB) 55+31.50 TO 56+36.00	296	132	124	194	12.5	2	2	79	2	209			85
DWY2	00+00.00 TO 0+65.26	11	6	10	7							1		
DWY7	10+00.00 TO 10+73.00	4	2	11	9								1	
MR1	20+71.03 TO 22+46.82	221	6											
TOTAL		1490	361	1386			2	2	79	2	2			

DRAINAGE QUANTITIES

DRAINAGE SYSTEM NUMBER ⬡	DRAINAGE UNIT NUMBER ⬠	12" CSP	STRUCTURAL CONCRETE, DRAINAGE INLET	BAR REINFORCING STEEL	STATION
		LF	CY	LB	
1	a				51+03.50 TO 53+01.60
	b	41.2			53+01.60 TO 53+42.76
	c		0.95	118	53+43.79
	d	11.1			53+44.26 to 53+55.00
	e				53+55.00 TO 53+97.00
2	a	13.1			53+42.25 to 53+43.54
	b		1.30	154	53+42.07
	c	47.8			53+43.52 TO 53+91.05
	d		1.21	145	53+92.52
	e	28.0			53+92.52
	f		1.17	140	53+92.52
3	a		1.14	137	55+35.97
	b	28.0			55+35.97
	c		1.22	145	55+35.97
	d	6.0			55+33.32 TO 55+35.97
	e		1.16	138	55+85.36
	f	14.9			55+85.56 TO 55+85.31
TOTAL		190.1	8.15	1,115	

RSP QUANTITIES

SHEET No.	ROCK SLOPE PROTECTION (LIGHT, METHOD B)	ROCK SLOPE PROTECTION (60LB, CL II, METHOD B)	ROCK SLOPE PROTECTION FABRIC (CLASS 8)
	CY	CY	SQYD
L-4		9	30
G-1	186		223
TOTAL	186	9	253

ROADSIDE SIGN QUANTITIES

SHEET No.	SIGN CODE	PANEL SIZE	POST SIZE AND LENGTH (FT) 4"x4"	4"x6"	6"x6"	6"x8"	RELOCATE ROADSIDE SIGN - ONE POST	RESET ROADSIDE SIGN - ONE POST	REMOVE MARKER	REMARKS
							EA	EA		
PD-1	R2-1	24" X 30"					1	1		
	R48-1	36" X 18"								ATTACHED TO R2-1 SIGN
	OBJECT MARKER	12" X 36"							3	
						TOTAL	1	1	3	

PAVEMENT DELINEATION QUANTITIES

STATIONING	LOCATION	DETAIL	6" THERMOPLASTIC TRAFFIC STRIPE WHITE	YELLOW	YELLOW (BROKEN 18-12)	THERMOPLASTIC PAVEMENT MARKING	PAVEMENT MARKER (RETROREFLECTIVE) TYPE D	PAVEMENT MARKER (RETROREFLECTIVE) TYPE H	DESCRIPTION/COMMENTS
			LF	LF	LF	SQFT	EA	EA	
51+03.50 TO 56+36.00	Lt	27B	533						
51+03.50 TO 53+29.00	Ctr	19		226	226		5	10	
51+03.50 TO 56+36.00	Rt	27B	533						
52+90.17	Rt	A24C				16.5			"35"
53+29.00 TO 56+36.00	Ctr	22		614				26	
		TOTAL	1066	840	226	16.5	5	36	

DRAFT

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REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
1810 EAST HAZELTON AVENUE STOCKTON, CA 95205
TEL: (209) 468-3000
FAX: (209) 468-2999

DESIGNED: T. CLIFFORD
DRAWN: M. ALMAZAN
CHECKED: R. GIBSON
APPROVED:

TY LIN INTERNATIONAL
1545 RIVER PARK DR, SUITE 201
SACRAMENTO, CA 95815

REGISTERED PROFESSIONAL ENGINEER — M. WOLOHAN — No. 67743 — Exp. 06/30/23 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

QUANTITIES

Q-1

ORIGINAL SCALE: NO SCALE
DATE: 02/01/2022
SHEET 18 OF 38

XRef List: | BRDR_ENG_ANSI_D - Copy |
Oct. 06, 2021 - 09:06:09 DWG Name: T:\Sacramento\Legacy\Prj_File\710077 - Escalon-Bellota Bridge\500_Engineering\510_Civil\511_CADD\SHEET\16-077-Q.dwg Updated By: VORTEGA

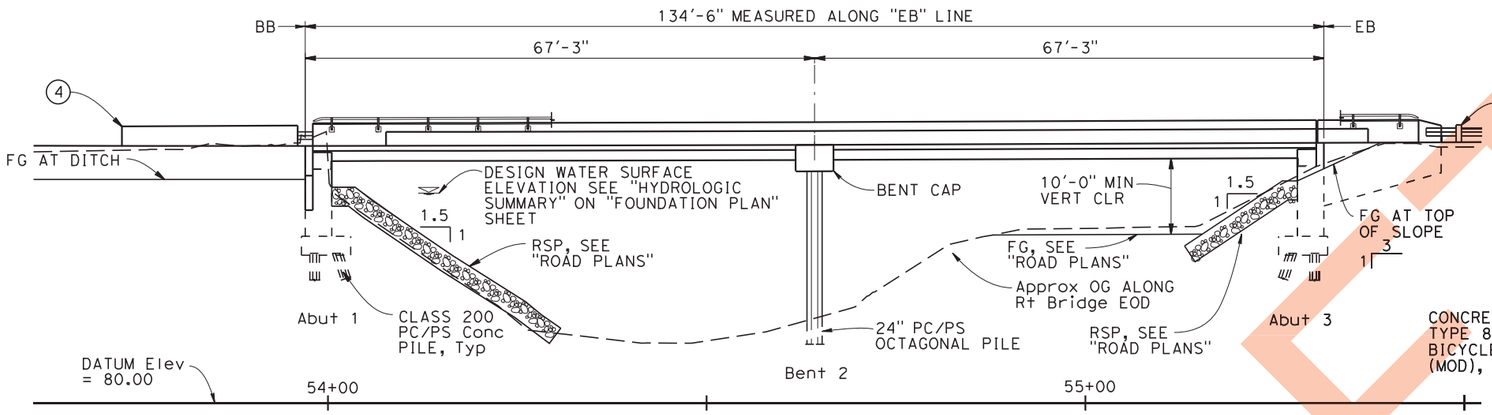
DRAWER	SHEET NO.

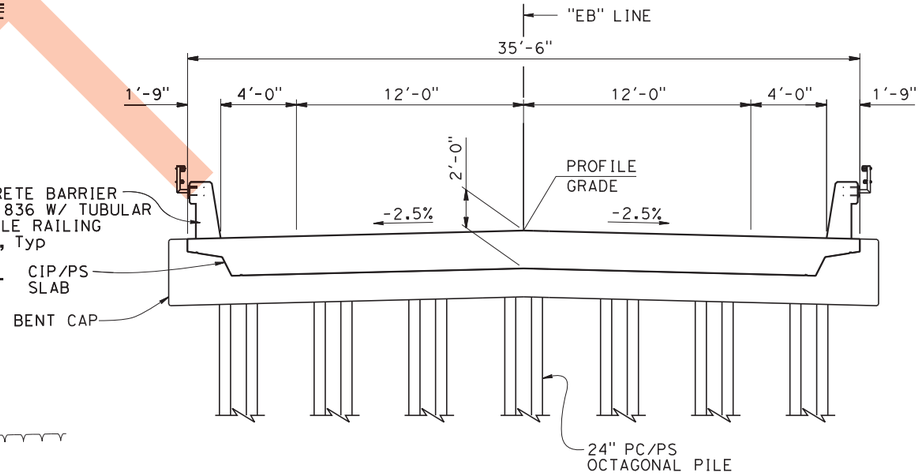
BVC 52+83.50
Elev = 114.17
-0.49%

VC = 180'
R/C = +0.483%/Sta

EVC 54+63.50
Elev = 114.08
+0.38%

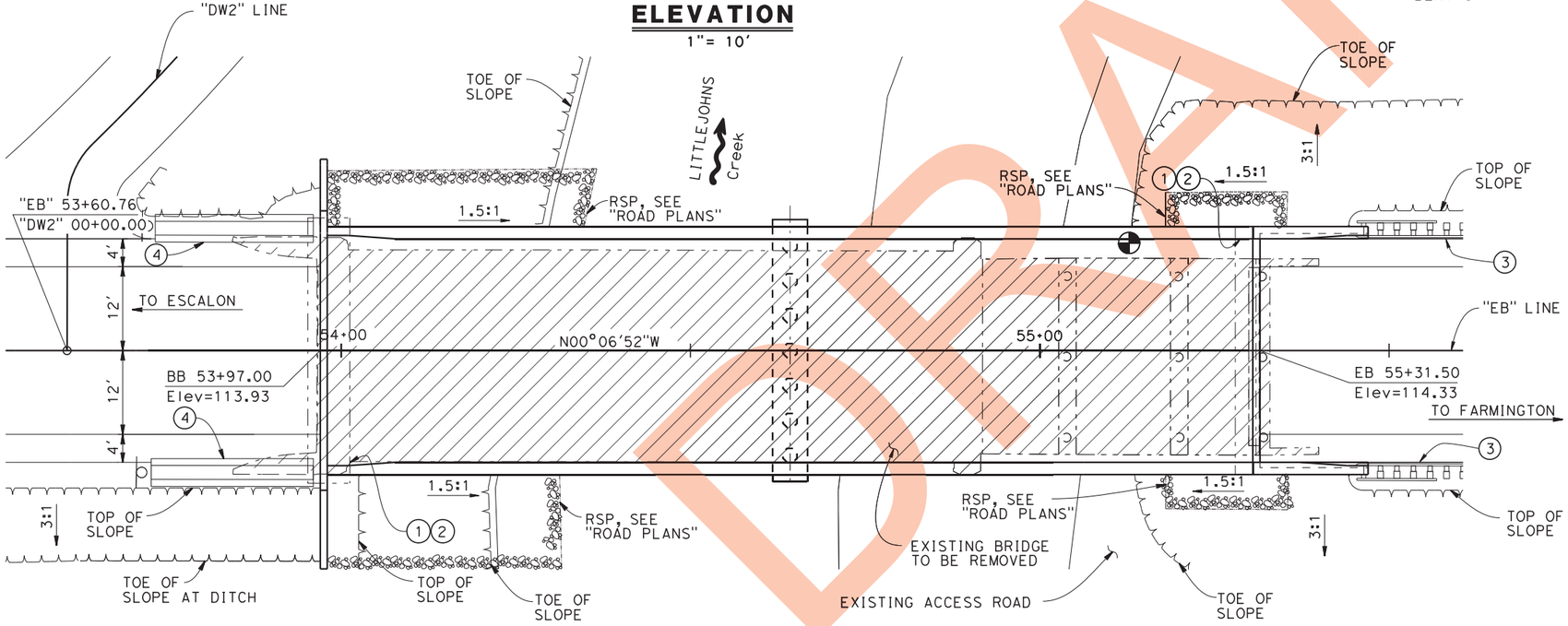
PROFILE GRADE
NO SCALE





TYPICAL SECTION
¼"=1'-0"

ELEVATION
1"= 10'



PLAN
1"= 10'

Legend:

1. Paint "ESCALON-BELLOTA ROAD BRIDGE"
2. Paint "BRIDGE NO. 29C-476" & YEAR CONSTUCTED
3. MGS, see "Road Plans"
4. Crash Cushion, see "Road Plans"

— - Indicates Existing Structure
Indicates Bridge Removal
Point of Minimum Vertical Clearance

GENERAL PLAN

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PROJECT NAME:

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PROJECT ENGINEER	DATE	CHECKED BY	DATE	T. Y. LIN INTERNATIONAL OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.
M. WOLOHAN	4/16/21	M. PHILIPPS	4/16/21	
DRAWN BY	DATE	SHEET NAME		SCALE
R. STONE	4/16/21			

ESCALON-BELLOTA ROAD BRIDGE
(OVER LITTLE JOHNS CREEK)
FEDERAL AID PROJECT NO. 5929 (238)

REGISTERED PROFESSIONAL ENGINEER
M. WOLOHAN
No. 67743
Exp. 06/30/21
CIVIL
STATE OF CALIFORNIA

PROJECT ENGINEER

COUNTY OF SAN JOAQUIN
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T·Y LIN INTERNATIONAL
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SHEET NO.
1 of 18
22 of 39

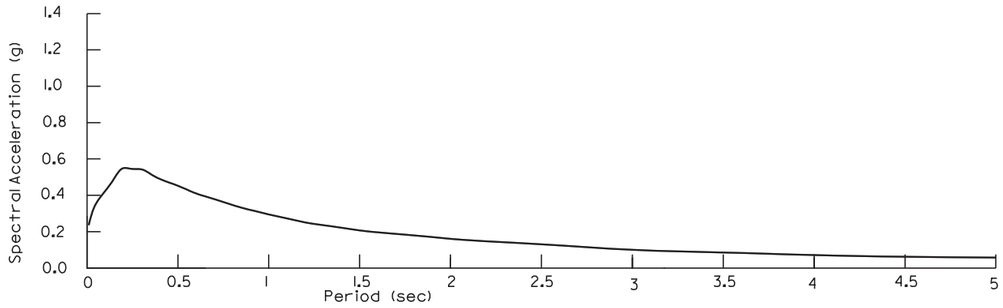
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES
0 1 2 3

USERNAME => fmidgio DATE PLOTTED => 4/16/2021 TIME PLOTTED => 8:34:18 AM FILE => 710077-g-gp00.dgn

USERNAME => michael.w@KPFF.com PLOTTED => 1/19/2022 TIME PLOTTED => 12:14:15 AM FILE => T:\Sacramento\Legacy\Proj Files\710077 - Escalon-Bellota Bridge\500 Engineering\520 Structures\521 CADD\dgn\710077-g-tip.dgn

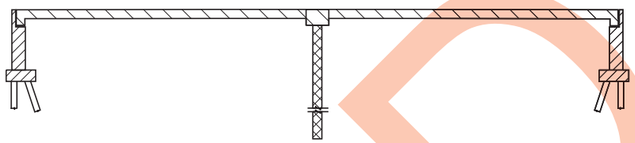
GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:	AASHTO LRFD Bridge Design Specifications, 6th Edition and the Caltrans Amendments, preface dated January 2014
SEISMIC DESIGN:	Caltrans Seismic Design Criteria (SDC) Version 1.7 April 2013
DEAD LOAD:	Includes 35 psf for future wearing surface
LIVE LOADING:	HL-93 w/"Low-Boy" and permit design load
SEISMIC LOADING:	Soil Profile: V_{S30} = 290 ft/sec Moment Magnitude: Mmax = 6.60±0.25 Peak Ground Acceleration 0.24g



REINFORCED CONCRETE: fy = 60 ksi
f'c = 3.6 ksi (EXCEPT AS INDICATED)
n = 8

PRESTRESSED CONCRETE: See prestressing notes on "CONCRETE SLAB DETAILS NO. 1" sheet.



STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER) (4.0 KSI @ 28 DAYS)
STRUCTURAL CONCRETE, BRIDGE (3.6 KSI @ 28 DAYS)
24" PC/PS OCTAGON PILES (7.0 KSI @ 28 DAYS)
CLASS 200 ALTERNATIVE Y' PILES

CONCRETE STRENGTHS AND TYPE LIMITS
No Scale

STANDARD PLANS, 2018

DETAIL	DESCRIPTION
A3A	Abbreviations (sheet 1 of 3)
A3B	Abbreviations (sheet 2 of 3)
A3C	Abbreviations (sheet 3 of 3)
A10A	Legend-Lines and Symbols (sheet 1 of 5)
A10B	Legend-Lines and Symbols (sheet 2 of 5)
A10C	Legend-Lines and Symbols (sheet 3 of 5)
A10D	Legend-Lines and Symbols (sheet 4 of 5)
A10E	Legend-Lines and Symbols (sheet 5 of 5)
A62C	Limits of Payment for Excavation and Backfill - Bridge
RSP B0-1	Bridge Details
B0-3	Bridge Details
B0-5	Bridge Details
B0-13	Bridge Details
RSP B2-8	Pile Details - Class 200
B6-21	Joint Seals (Maximum Movement Rating = 2")
B8-5	Cast-In-Place Post-Tensioned Girder Details
RSP B11-79	Concrete Barrier Type 836 Details No. 1
RSP B11-80	Concrete Barrier Type 836 Details No. 2

INDEX TO BRIDGE PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	DECK CONTOURS
4	FOUNDATION PLAN
5	ABUTMENT 1 LAYOUT
6	ABUTMENT 3 LAYOUT
7	ABUTMENT DETAILS NO. 1
8	ABUTMENT DETAILS NO. 2
9	ABUTMENT DETAILS NO. 3
10	BENT LAYOUT
11	BENT DETAILS
12	TYPICAL SECTION
13	CONCRETE SLAB DETAILS NO. 1
14	CONCRETE SLAB DETAILS NO. 2
15	TUBULAR BICYCLE RAILING DETAILS
16	LOG OF TEST BORINGS 1 OF 3
17	LOG OF TEST BORINGS 2 OF 3
18	LOG OF TEST BORINGS 3 OF 3

QUANTITIES

BRIDGE REMOVAL	1	LS
STRUCTURE EXCAVATION (BRIDGE)	257	CY
STRUCTURE BACKFILL (BRIDGE)	174	CY
FURNISH PILING (CLASS 200)	1273	LF
DRIVE PILE (CLASS 200)	28	EA
FURNISH PILING (24" OCTAGONAL PC/PS CONCRETE)	481	LF
DRIVE PILE (24" OCTAGONAL PC/PS CONCRETE)	7	EA
PRESTRESSING CAST-IN-PLACE CONCRETE	1	LS
STRUCTURAL CONCRETE, BRIDGE FOOTING	47	CY
STRUCTURAL CONCRETE, BRIDGE	107	CY
STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	301	CY
BAR REINFORCING STEEL (BRIDGE)	70637	LB
CONCRETE BARRIER TYPE 836(MODIFIED)	298	LF
TUBULAR BICYCLE RAILING	292	LF
JOINT SEAL (MR 1")	72	LF

INDEX TO PLANS

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PROJECT NAME:

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M. WOLOHAN	4/16/21	M. PHILIPPS	4/16/21	
DRAWN BY	DATE	SHEET NAME		SCALE
R. STONE	4/16/21			

ESCALON-BELLOTA ROAD BRIDGE
(OVER LITTLE JOHNS CREEK)
FEDERAL AID PROJECT NO. 5929 (238)

REGISTERED PROFESSIONAL ENGINEER — M. WOLOHAN — No. 67743 — Exp. 06/30/21 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER

COUNTY OF SAN JOAQUIN
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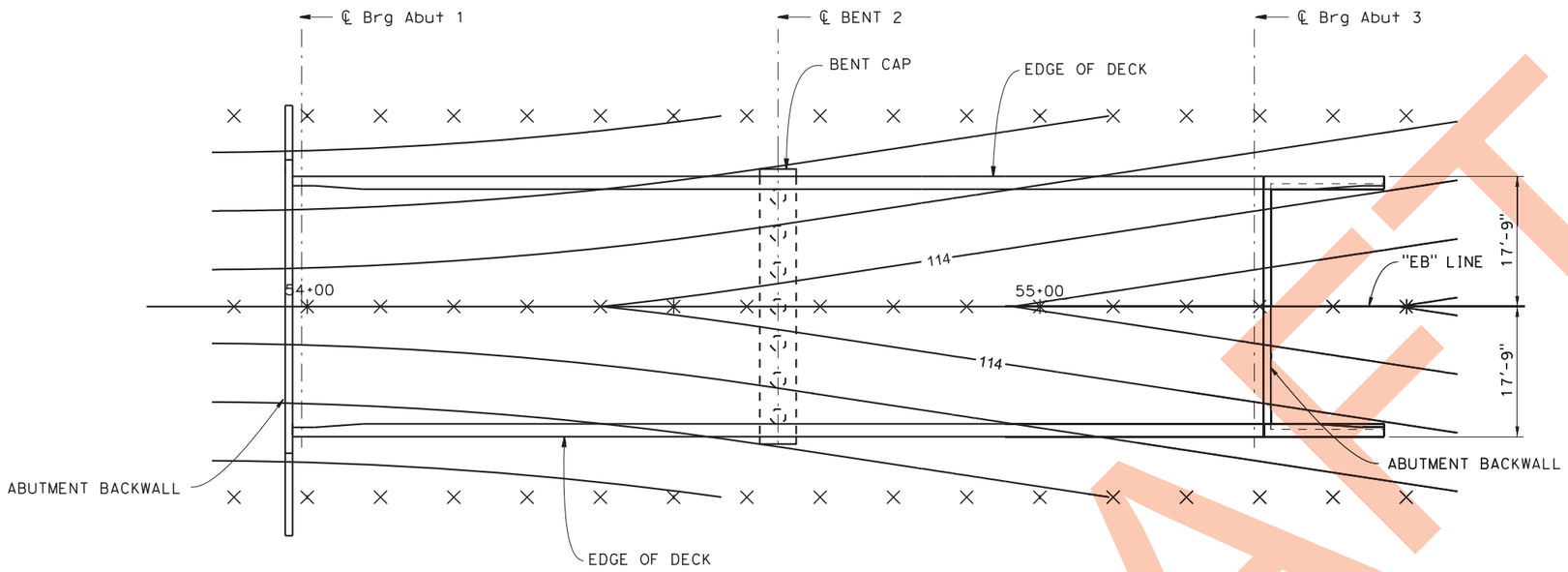
SHEET NO. 2 of 23 / 18 39

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES
0 1 2 3



DECK CONTOURS
1"=10'

Notes:

1. Contour Intervals = 0.10 feet.
2. Contours do not include camber or falsework settlement.
3. x - Indicates 10' interval measured along station line.

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PROJECT NAME:

DECK CONTOURS

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DRAWN BY	DATE	SHEET NAME		SCALE
R. STONE	4/16/21			

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(OVER LITTLE JOHNS CREEK)
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SHEET NO. 3 of 18 24 39

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

DRAWER	SHEET NO.

HYDROLOGIC SUMMARY	DESIGN FLOOD	Base Flood
FREQUENCY (YEARS)	50	100
DISCHARGE (CUBIC FEET PER SECOND)	3750	4860
WATER SURFACE (ELEVATION AT BRIDGE)	106.1	107.9

FLOOD PLAIN DATA IS BASED UPON INFORMATION AVAILABLE WHEN THE PLANS WERE PREPARED AND ARE SHOWN TO MEET FEDERAL REQUIREMENTS. THE ACCURACY OF SAID INFORMATION IS NOT WARRANTED BY THE STATE, COUNTY, OR CITY AND INTERESTED OR AFFECTED PARTIES SHOULD MAKE THEIR OWN INVESTIGATIONS.

DRAINAGE AREA = 215.9 SQUARE MILES

PILE DATA TABLE

Location	Pile Type	Nominal Resistance (KIPS)		Design Tip Elevation	Specified Tip Elevation	Required Nominal Driving Resistance (KIPS)
		Compression	Tension			
ABUT 1	CLASS 200 Alt "Y"	250	70	55.5 (a) 77.5 (b) 84.5 (d)	55.5	250
BENT 2	24" Octagonal PC/PS	540	N/A	42.0 (a) n/a (b) 62.0 (d)	42.0	560
ABUT 3	CLASS 200 Alt "Y"	260	40	55.5 (a) 82.5 (b) 84.5 (d)	55.5	260

Notes:

1. Design tip elevation for Bents and Abutments are controlled by: (a) Compression, (b) Tension, (d) Lateral Load. For settlement, it was verified that settlement is less than 1 inch for meeting the nominal driving resistance.
2. The Specification Tip Elevation shall not be raised above the tip elevation for tension and lateral load. Specified Tip Elevations may be raised above the design tip elevation for compression if driving refusal occurs as defined in the project specifications, as approved by the Engineer of record.
3. Nominal driving resistance at Bent 2 includes driving resistance in scourable soils (above EL. 78.6 feet).

Survey Control

△5000: 3.5" BD ON SW COR 11.87' Lt "EB" Line
Sta: 53+94.77
N = 2159755.353
E = 6417394.414
Elev = 115.14

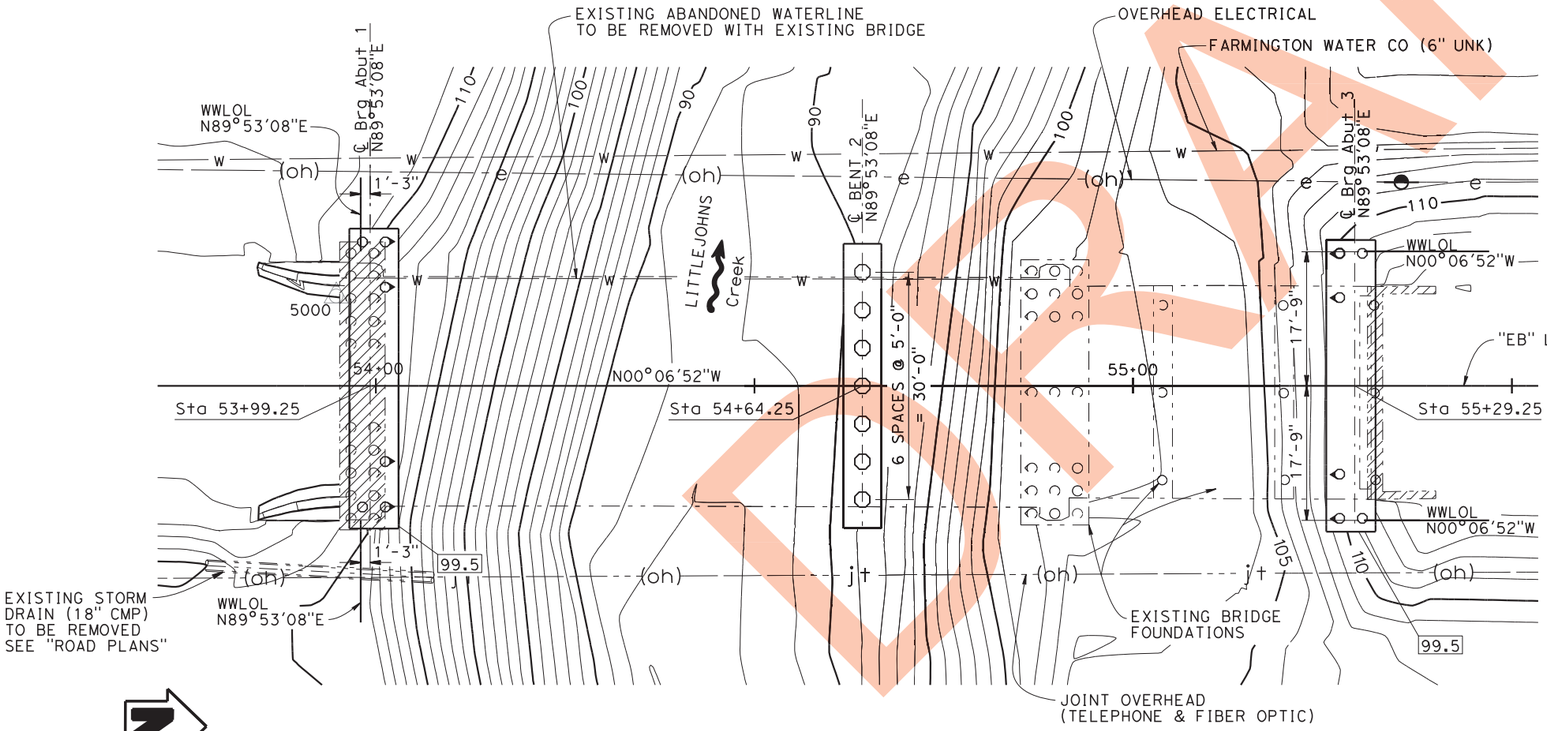
VERTICAL DATUM: NAVD88

HORIZONTAL DATUM: CALIFORNIA STATE PLANE COORDINATE SYSTEM NAD83 (ZONE 3)

SCOUR DATA TABLE

SUPPORT NO.	LONG TERM (DEGRADATION AND CONTRACTION) SCOUR ELEVATION (FT)	SHORT TERM (LOCAL) SCOUR DEPTH (FT)
Abut 1	102.6 *	-
BENT 2	80.7	4.2
Abut 3	103.0 *	1.3

* Assumes RSP is implemented at the embankment slopes of the proposed abutments.



NOTES:

1. Location of existing structure foundations is approximate.
2. Contractor shall cut existing piles at bottom of proposed footing elevations where there is a conflict with proposed footings.
3. Not all piles shown.

LEGEND:

- Indicates bottom of footing elevation
- Indicates 24" Octagonal PC/PS
- Indicates Vertical Class 200 Pile PC/PS Concrete
- Indicates Battered Class 200 Pile PC/PS Concrete
- Indicates Existing Pile
- Indicates Existing Battered Pile
- Indicates Existing Footing to be removed
- Indicates Existing Bridge Foundations

FOUNDATION PLAN

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PROJECT NAME:

USERNAME => hnicolao DATE PLOTTED => 4/16/2021 TIME PLOTTED => 8:34:36 AM FILE => 710077-e-fp100.dgn

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M. WOLOHAN	4/16/21	M. PHILIPPS	4/16/21	
DRAWN BY	DATE	SHEET NAME		SCALE
R. STONE	4/16/21			1"=10'-0"

ESCALON-BELLOTA ROAD BRIDGE
(OVER LITTLE JOHNS CREEK)
FEDERAL AID PROJECT NO. 5929 (238)

REGISTERED PROFESSIONAL ENGINEER M. WOLOHAN No. 67743 Exp. 06/30/21 CIVIL STATE OF CALIFORNIA

PROJECT ENGINEER

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS BRIDGE DIVISION
1810 EAST HAZELTON AVENUE
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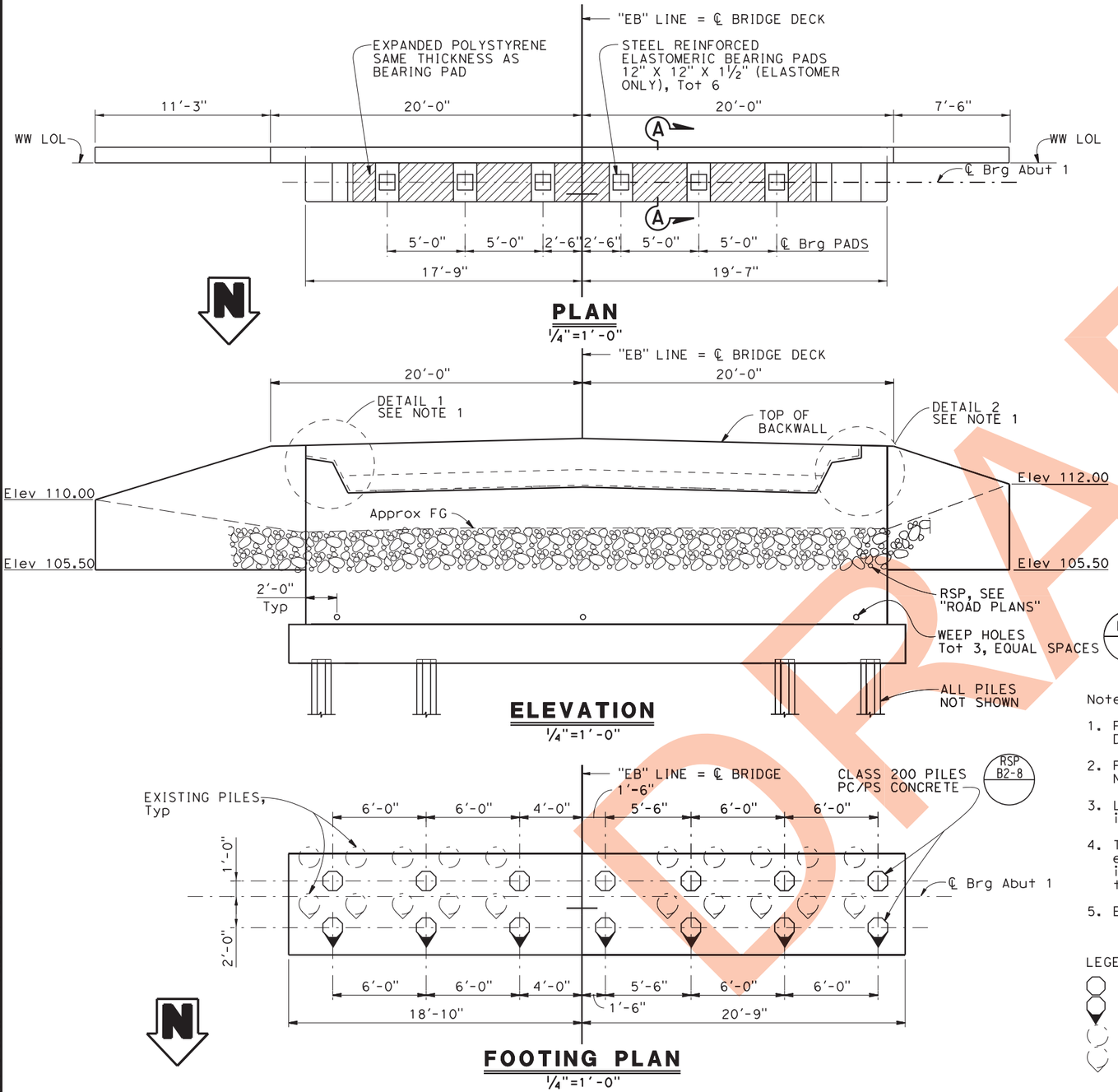
T·Y LIN INTERNATIONAL
1545 River Park Drive, Suite 201
SACRAMENTO, CA 95815

SHEET NO. 4 of 25 | 18 of 39

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3



PLAN
1/4"=1'-0"

ELEVATION
1/4"=1'-0"

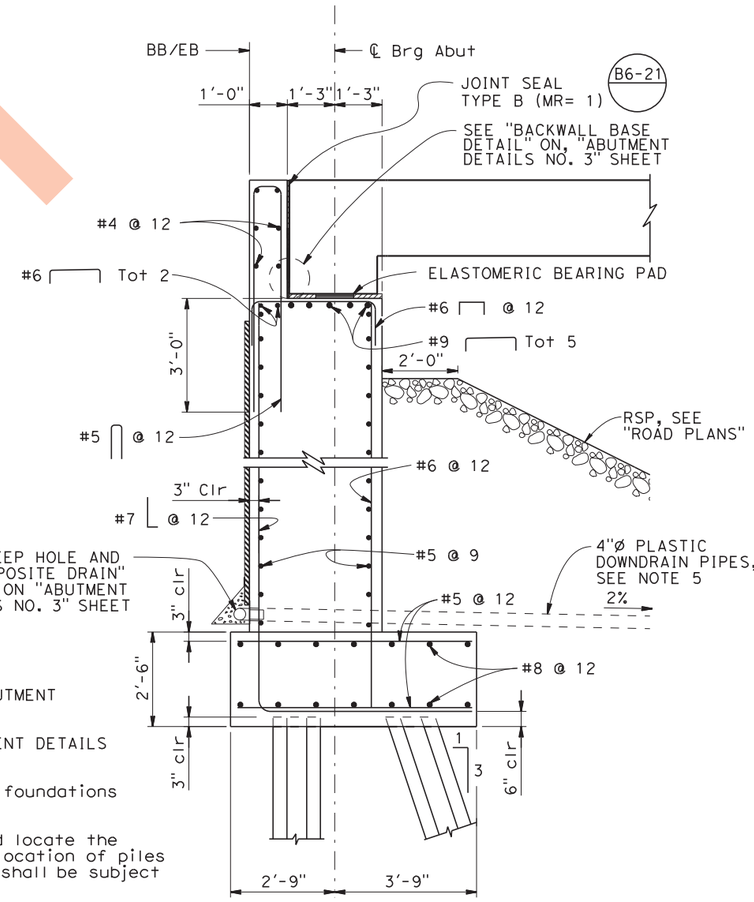
FOOTING PLAN
1/4"=1'-0"

Notes:

1. For Detail 1 & Detail 2 see "ABUTMENT DETAILS NO. 1" sheet.
2. For Wingwall details see "ABUTMENT DETAILS NO. 2" sheet.
3. Location of existing structure foundations is approximate.
4. The Contractor shall expose and locate the existing piles in the field. Relocation of piles in conflict with existing piles shall be subject to the Engineer's approval.
5. Extend downdrain pipes 6" beyond RSP fabric.

LEGEND:

- Indicates Vertical Piles
- Indicates Battered Piles
- Indicates Existing Piles
- Indicates Existing Battered Piles



SECTION A-A
1/2"=1'-0"

ABUTMENT 1 LAYOUT

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PROJECT NAME:

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DRAWN BY	DATE	SHEET NAME		SCALE
R. STONE	4/16/21			

ESCALON-BELLOTA ROAD BRIDGE
(OVER LITTLE JOHNS CREEK)
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SHEET NO. 5 18 26 of 39

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

DRAWER | SHEET NO.

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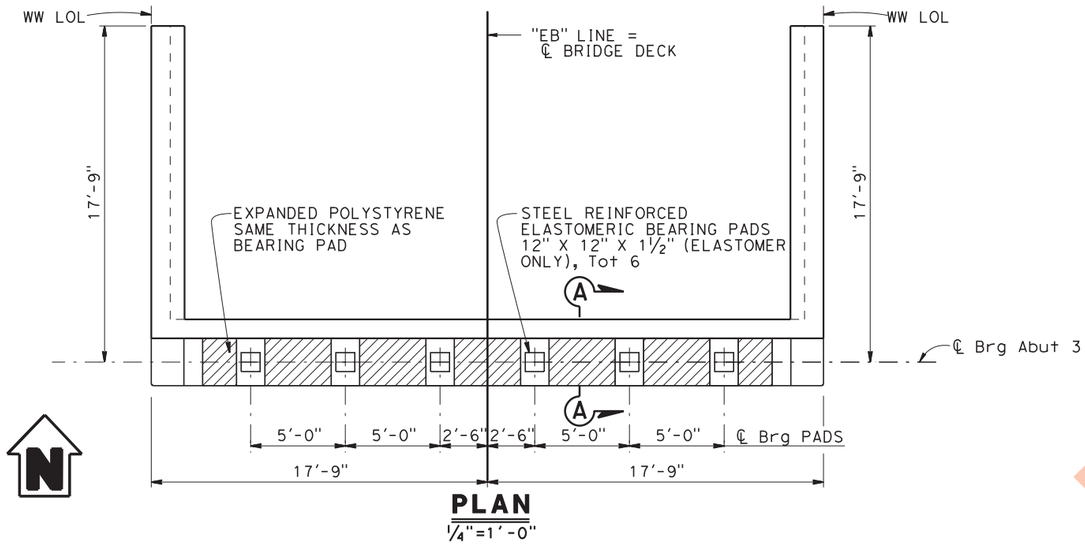
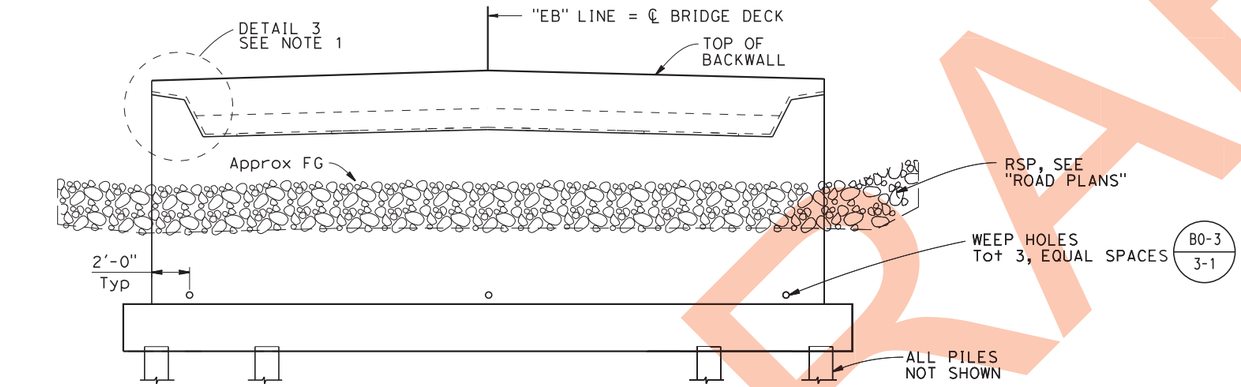
DRAFT

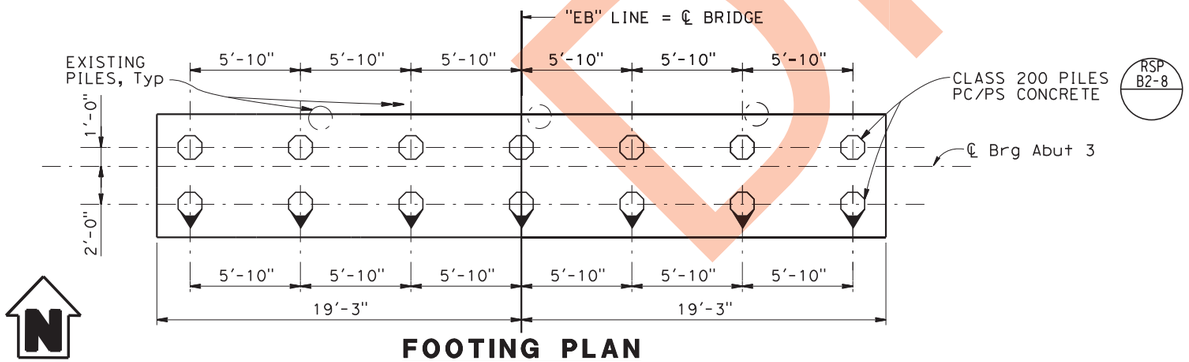
DRAWER	
SHEET NO.	



PLAN
¼"=1'-0"



ELEVATION
¼"=1'-0"



FOOTING PLAN
¼"=1'-0"

Notes:

1. For Detail 3 see "ABUTMENT DETAILS NO. 2" sheet.
2. For Wingwall details see "ABUTMENT DETAILS NO. 2" sheet.
3. For Section A-A see "ABUTMENT 1 LAYOUT " sheet.
4. Location of existing structure foundations is approximate.
5. The Contractor shall expose and locate the existing piles in the field. Relocation of piles in conflict with existing piles shall be subject to the Engineer's approval.

LEGEND:

- Indicates Vertical Piles
- Indicates Battered Piles
- Indicates Existing Piles
- Indicates Existing Battered Piles

ABUTMENT 3 LAYOUT

95% SUBMITTAL - NOT FOR CONSTRUCTION

PROJECT NAME:

DRAFT

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PROJECT ENGINEER	DATE	CHECKED BY	DATE	T. Y. LIN INTERNATIONAL OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.
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DRAWN BY	DATE	SHEET NAME		SCALE
R. STONE	4/16/21			

ESCALON-BELLOTA ROAD BRIDGE
(OVER LITTLE JOHNS CREEK)
FEDERAL AID PROJECT NO. 5929 (238)

REGISTERED PROFESSIONAL ENGINEER — M. WOLOHAN — No. 67743 — Exp. 06/30/21 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS BRIDGE DIVISION
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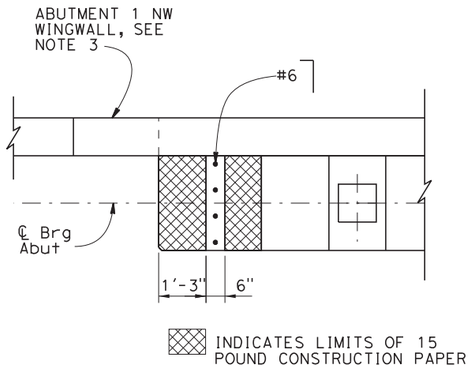
T·Y LIN INTERNATIONAL
1545 River Park Drive, Suite 201
SACRAMENTO, CA 95815

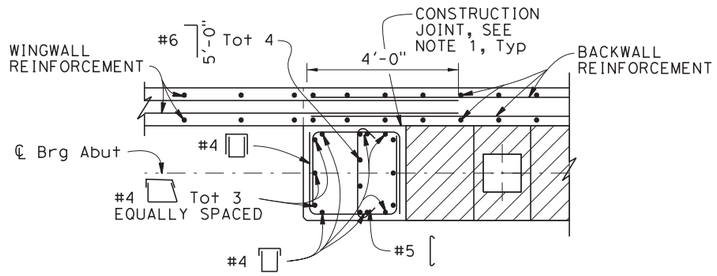
SHEET NO. 6 of 18
27 39

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES
0 1 2 3

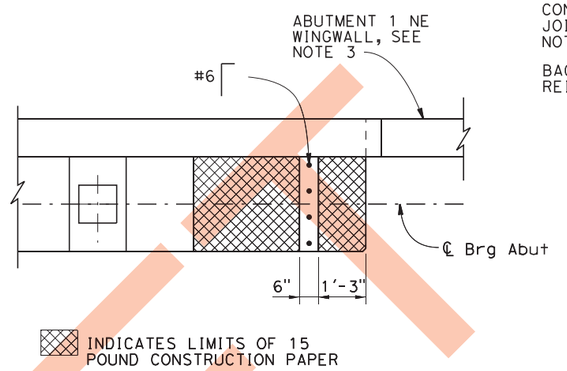


INDICATES LIMITS OF 15 POUND CONSTRUCTION PAPER

SECTION B-B
½"=1'-0"

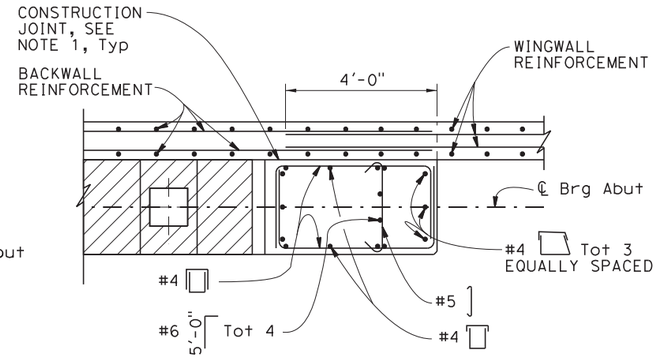


SECTION C-C
½"=1'-0"

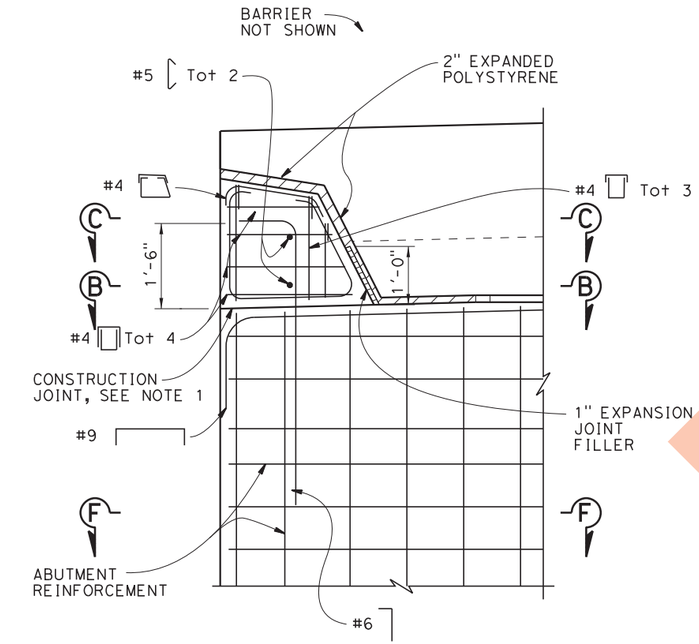


INDICATES LIMITS OF 15 POUND CONSTRUCTION PAPER

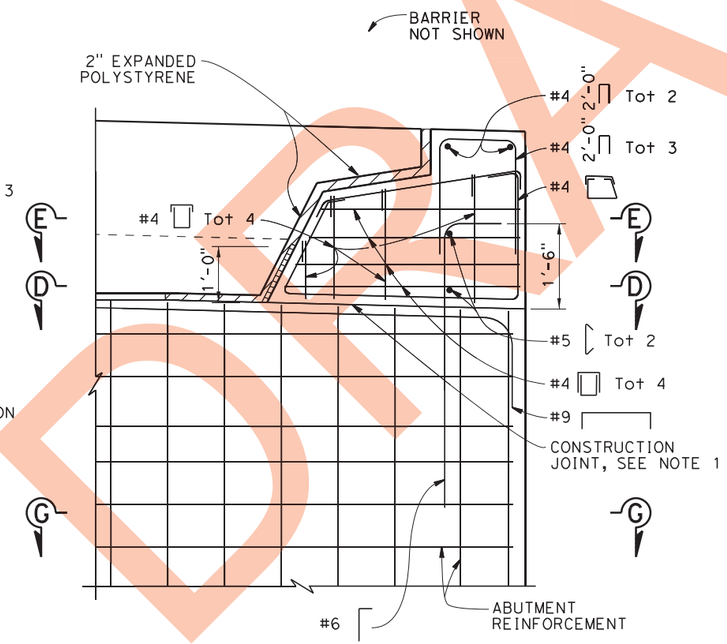
SECTION D-D
½"=1'-0"



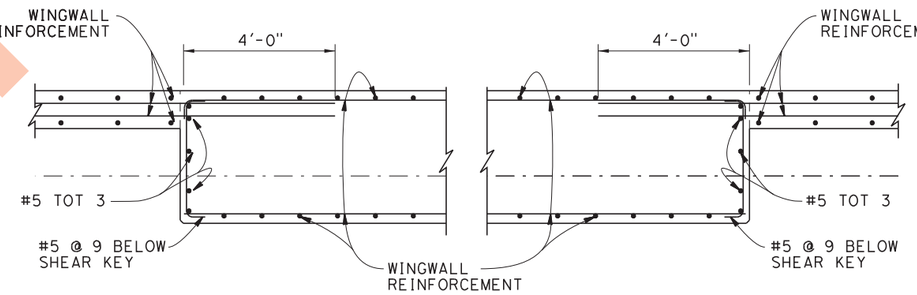
SECTION E-E
½"=1'-0"



DETAIL 1
¾"=1'-0"



DETAIL 2
¾"=1'-0"



SECTION F-F
½"=1'-0"

SECTION G-G
½"=1'-0"

Notes:

1. Construction joint, surface to be smooth finish and lined with 15 pound constuction paper.
2. For Details not shown, see RSP B0-1
3. South Abutment 1 Sections shown. For North Abutment 3 Sections see "ABUTMENT DETAILS NO. 2" sheet.

ABUTMENT DETAILS NO. 1

95% SUBMITTAL - NOT FOR CONSTRUCTION

PROJECT NAME:

DRAWER | SHEET NO.

PROJECT ENGINEER	DATE	CHECKED BY	DATE	T. Y. LIN INTERNATIONAL OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.
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R. STONE	4/16/21			

ESCALON-BELLOTA ROAD BRIDGE
(OVER LITTLE JOHNS CREEK)
FEDERAL AID PROJECT NO. 5929 (238)

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PROJECT ENGINEER

COUNTY OF SAN JOAQUIN
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1545 River Park Drive, Suite 201
SACRAMENTO, CA 95815

SHEET NO. 7 of 28 18 39

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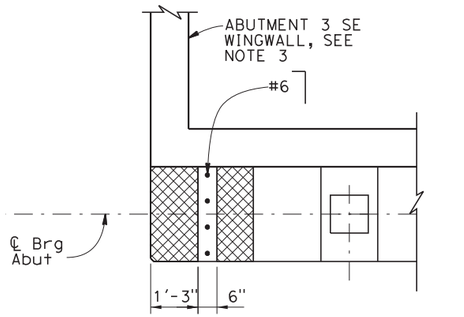
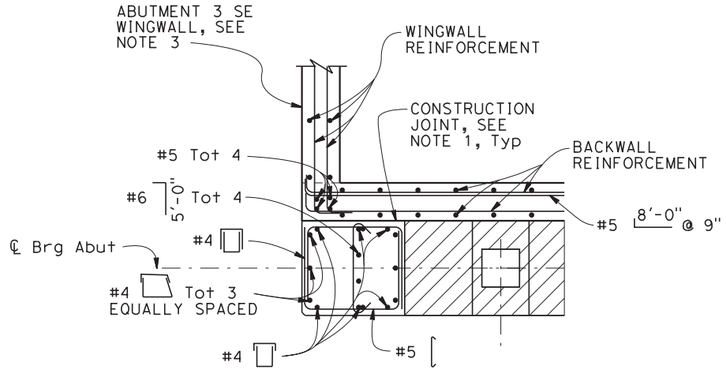
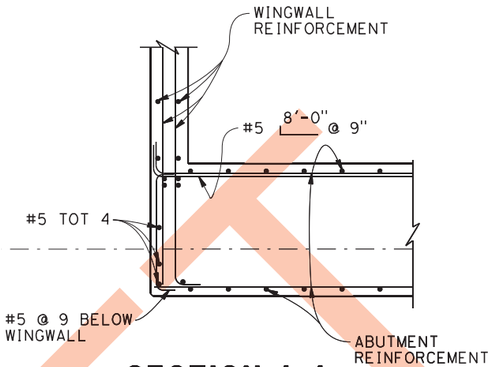


INDICATES LIMITS OF 15 POUND CONSTRUCTION PAPER

SECTION J-J
½"=1'-0"



SECTION K-K
½"=1'-0"



SECTION L-L
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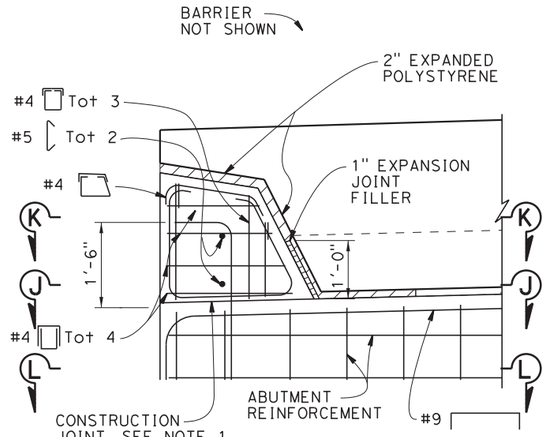
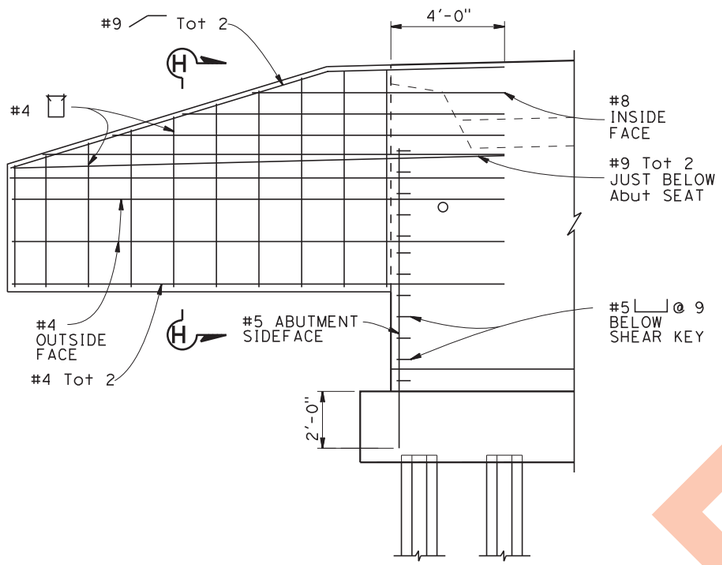
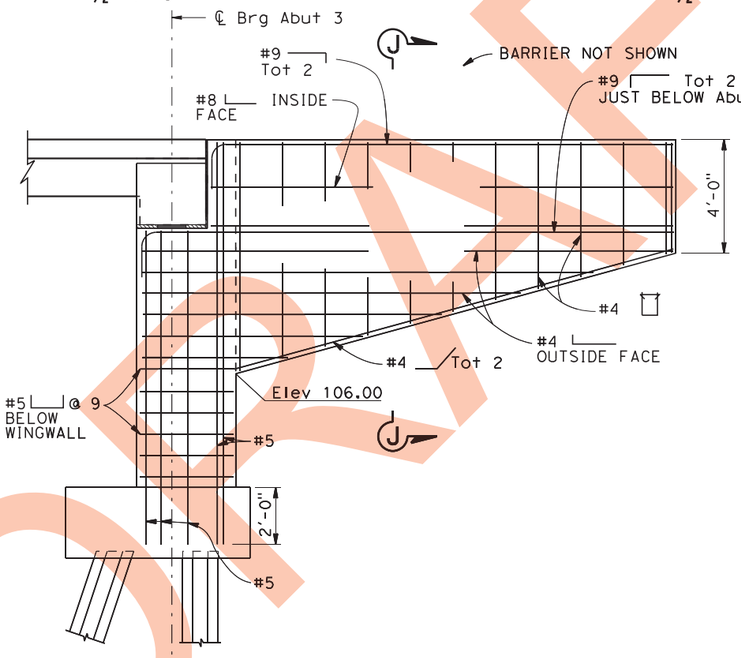


DETAIL 3
¾"=1'-0"



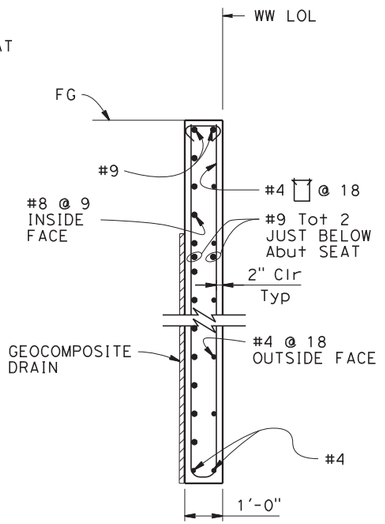
SE & SW MIRRORED

WINGWALL ELEVATION
NO SCALE

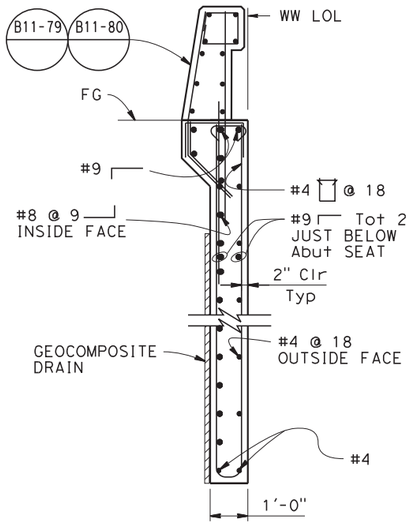


NE & NW MIRRORED

WINGWALL ELEVATION
NO SCALE



SECTION H-H
½"=1'-0"



SECTION J-J
½"=1'-0"

NOTE:

1. Construction joint, surface to be smooth finish and lined with 15 pound construction paper.
2. For Details not shown, see RSP B0-1
3. Northwest Abutment 3 Sections shown. Northeast Abutment 3 Sections similar. For South Abutment 1 Sections see "ABUTMENT DETAILS NO. 1" sheet.

ABUTMENT DETAILS NO. 2

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PROJECT NAME:

DRAFT

DRAWER	SHEET NO.

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DRAWN BY	DATE	SHEET NAME		SCALE
R. STONE	4/16/21			

ESCALON-BELLOTA ROAD BRIDGE
(OVER LITTLE JOHNS CREEK)
FEDERAL AID PROJECT NO. 5929 (238)

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PROJECT ENGINEER

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SHEET NO. 8 of 29 — 18 of 39

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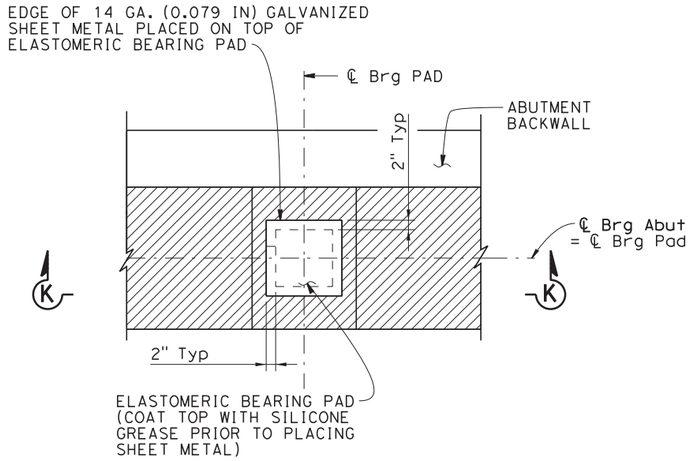
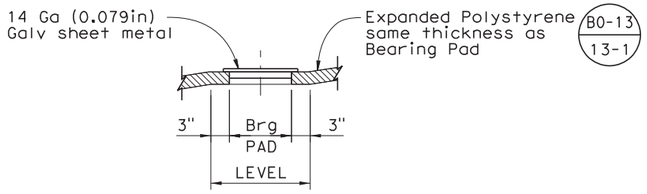
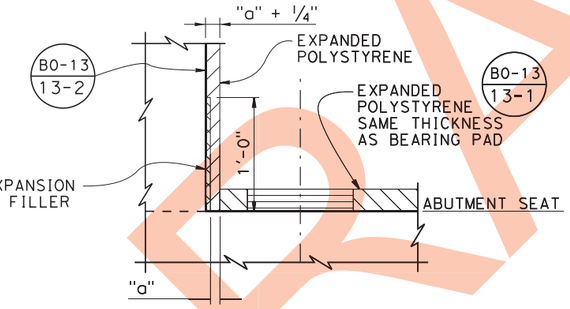




SECTION K-K

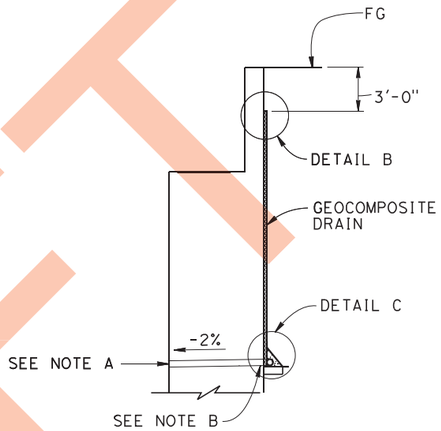
BEARING PAD DETAIL

No Scale

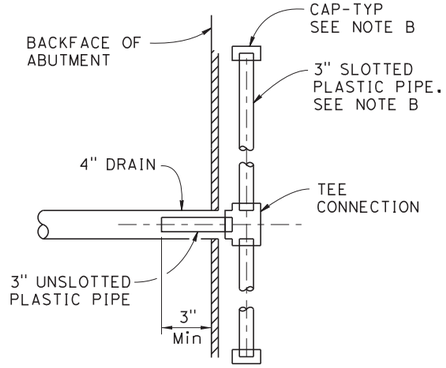


BACKWALL BASE DETAIL

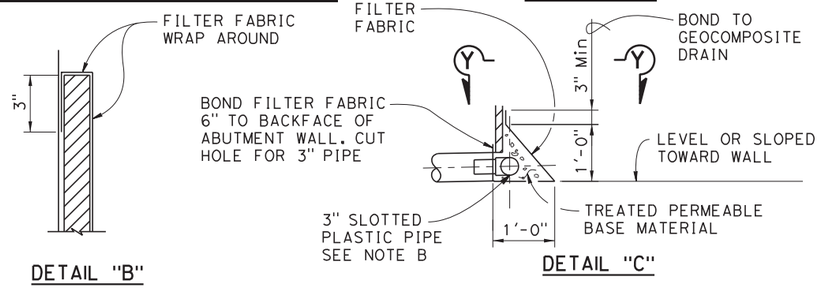
No Scale



ABUTMENT OR WING WALL SECTION



SECTION A-A



WEEP HOLE AND GEOCOMPOSITE DRAIN

NOTES:

A. 4" ø drains at locations shown on "ABUTMENT LAYOUT" sheets. Exposed drains shall be located 3"± above finished grade.

B. Geocomposite drain, cement treated permeable base, and 3" ø slotted plastic pipe continuous behind abutment. Cap ends of pipe. Provide "Tee" connection at each 4" ø drain.

C. Connect the low end of plastic pipe to the main outlet pipe as applicable.

ALTERNATIVE TO BRIDGE DETAIL B0-3 3-1

ABUTMENT DETAILS NO. 3

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PROJECT NAME:

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DRAWN BY	DATE	SHEET NAME		SCALE
R. STONE	4/16/21			

ESCALON-BELLOTA ROAD BRIDGE
(OVER LITTLE JOHNS CREEK)
FEDERAL AID PROJECT NO. 5929 (238)

REGISTERED PROFESSIONAL ENGINEER — M. WOLOHAN — No. 67743 — Exp. 06/30/21 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER

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SHEET NO. 9 18 30 of 39

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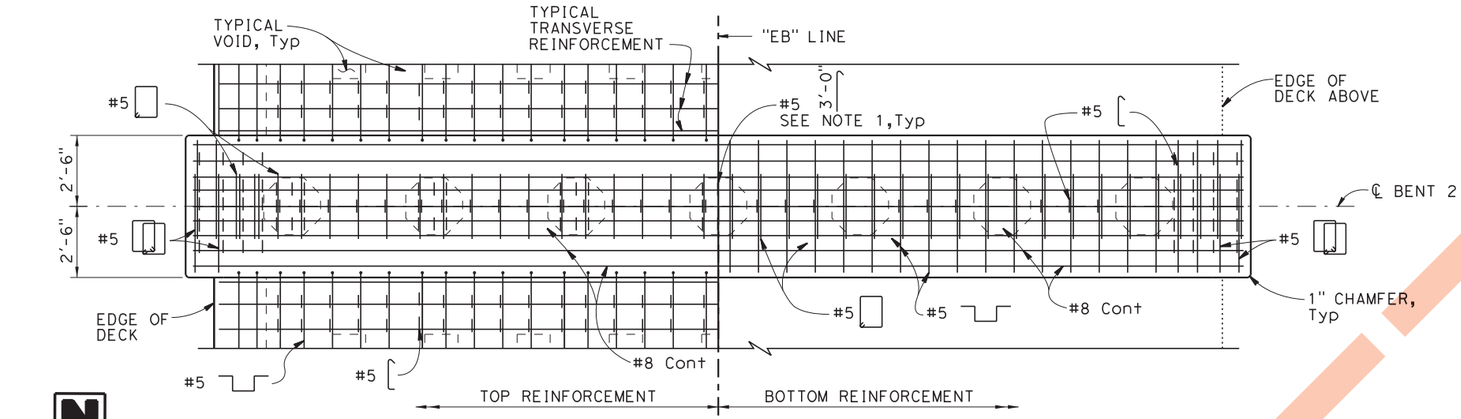
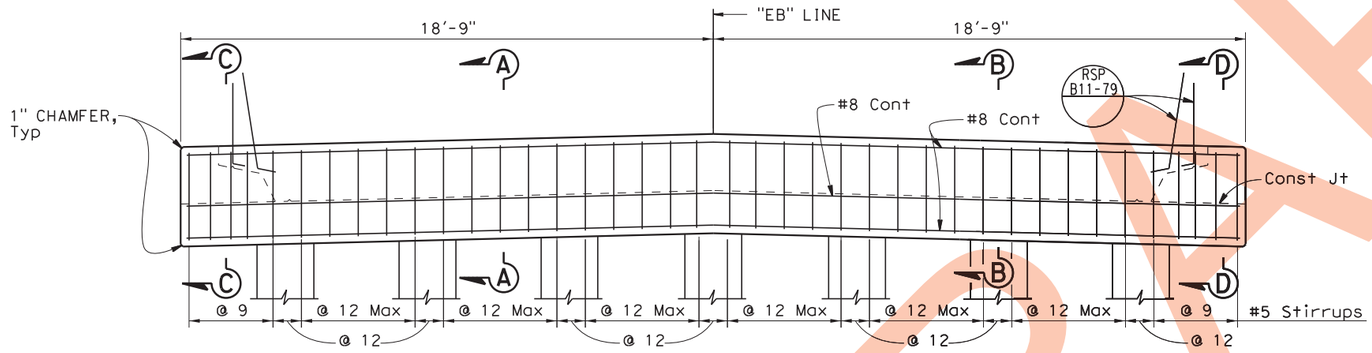
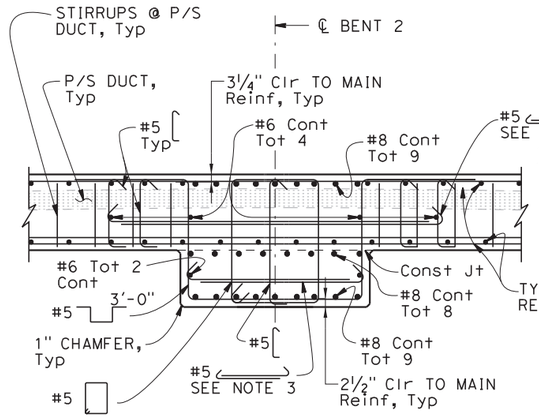


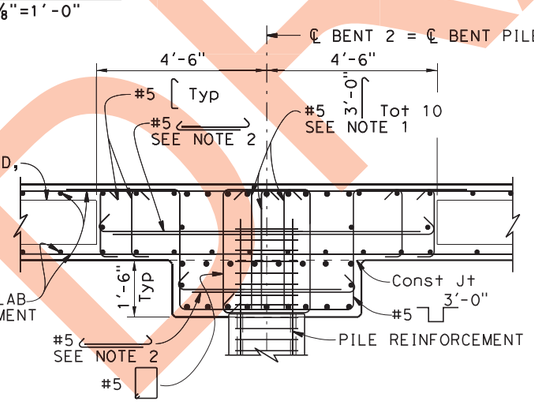
PLAN
3/8"=1'-0"



ELEVATION
3/8"=1'-0"

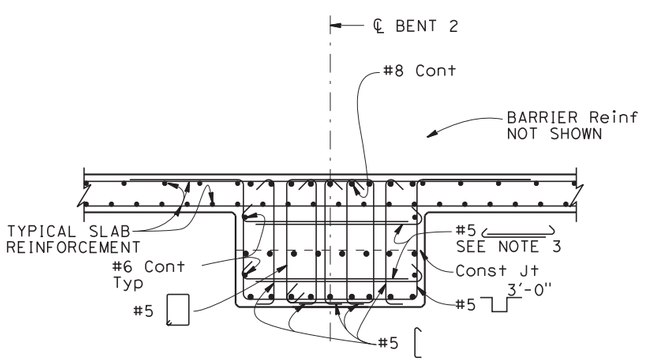


SECTION A-A
½"=1'-0"



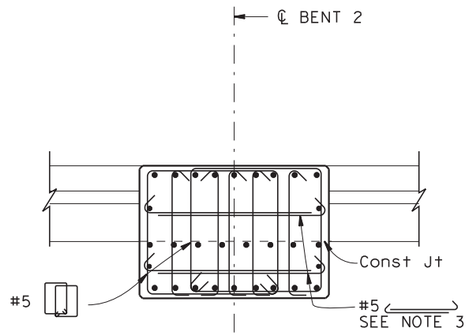
FOR REINFORCEMENT NOT SHOWN OR NOTED SEE "SECTION A-A"

SECTION B-B
½"=1'-0"



FOR REINFORCEMENT NOT SHOWN OR NOTED SEE "SECTION A-A"

SECTION C-C
½"=1'-0"



FOR REINFORCEMENT NOT SHOWN OR NOTED SEE "SECTION A-A & SECTION C-C"

SECTION D-D
½"=1'-0"

NOTE:

1. Vertical j-bars inside column cage shall be placed to avoid post-tensioning ducts.
2. Two sets of two vertically distributed horizontal ties shall pass through the column cage.
3. Vertically distributed horizontal ties shall be spaced with main stirrups outside the column cage.
4. Barriers not shown.

BENT LAYOUT

95% SUBMITTAL - NOT FOR CONSTRUCTION

PROJECT NAME:

DRAFT

PROJECT ENGINEER	DATE	CHECKED BY	DATE
M. WOLOHAN	4/16/21	M. PHILIPPS	4/16/21
DRAWN BY	DATE	SHEET NAME	SCALE
R. STONE	4/16/21		

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1545 River Park Drive, Suite 201
SACRAMENTO, CA 95815

SHEET NO. 10 of 31 of 39

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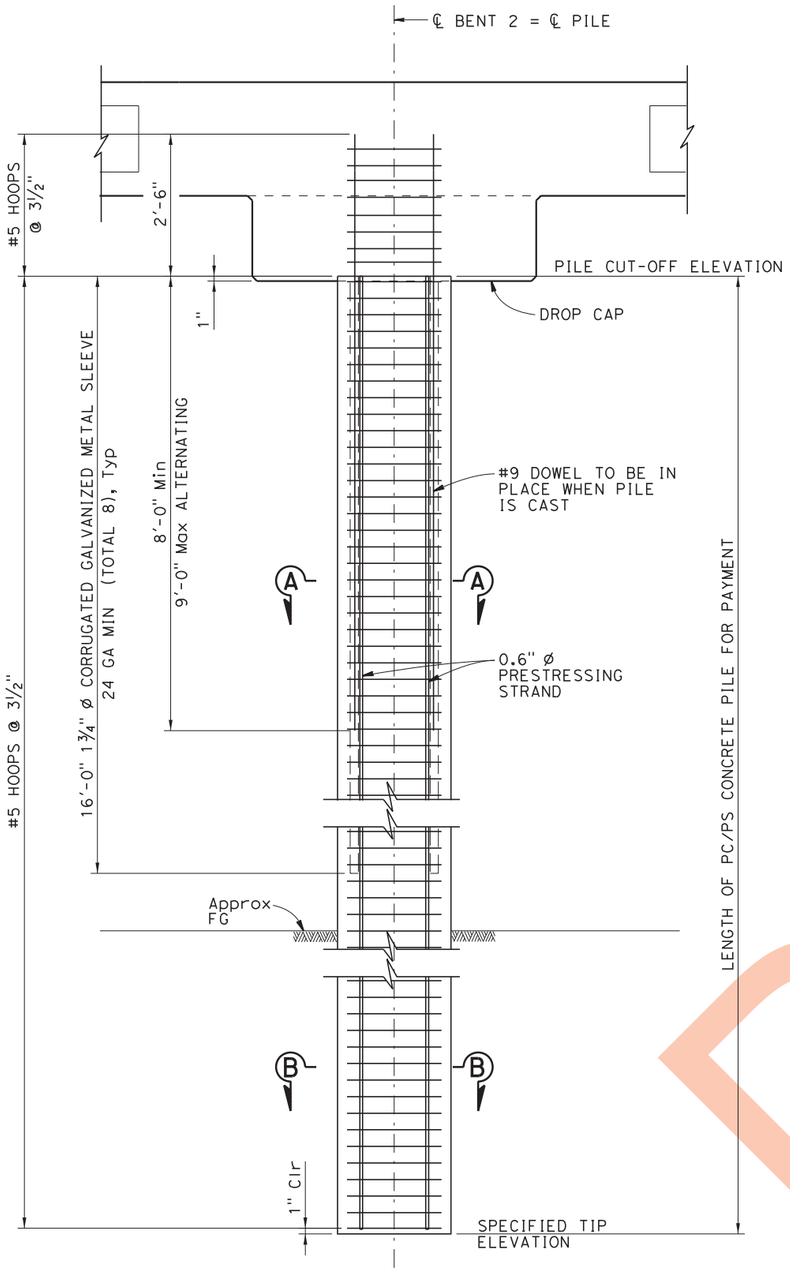
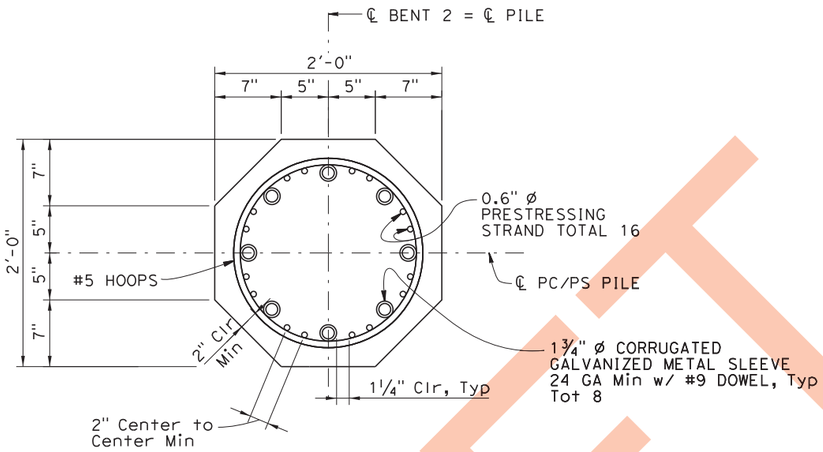


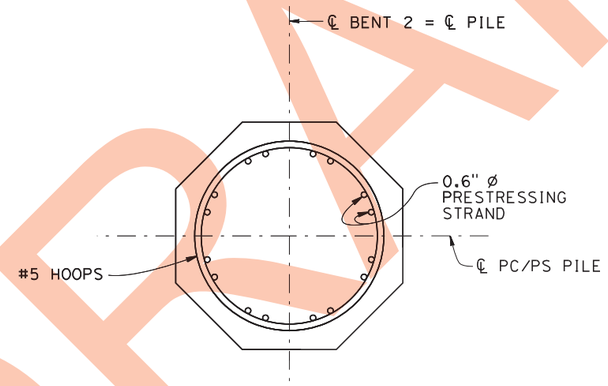
PILE ELEVATION

NO SCALE



SECTION A-A

1½"=1'-0"



SECTION B-B

1½"=1'-0"

NOTES:

1. PRESTRESSING
   a. JACKING FORCE PER STRAND SHALL BE 75% OF THE ULTIMATE = 43.94 KIPS FOR 0.6" ø STRAND (AREA OF STRAND = 0.217 IN^2)
   b. ASSUMED LOSSES 20 KSI = 8.68 KIPS PER STRAND
   c. WORKING FORCE = 35.15 KIPS PER STRAND
   d. FINAL EFFECTIVE PRESTRESS IN CONCRETE AFTER ALL LOSSES = 1.179 KSI (+/- 2%)
2. DOWELS SHALL BE EMBEDDED 8'-0" OR 9'-0" AFTER PILE CUT-OFF, AT ALTERNATE LENGTHS. (4 TOTAL DOWELS EMBEDDED 8'-0" AND 4 TOTAL DOWELS EMBEDDED 9'-0") FILL THE ENTIRE LENGTH OF THE DOWEL TUBE WITH GROUT.
3. ALL HOOPS SHALL BE ULTIMATE BUTT SPLICED.
4. AGGREGATE MUST BE 1" MAXIMUM COMBINED GRADING.

BENT DETAILS

95% SUBMITTAL - NOT FOR CONSTRUCTION

DRAWER | SHEET NO.

PROJECT NAME:

DRAFT

PROJECT ENGINEER	DATE	CHECKED BY	DATE	T. Y. LIN INTERNATIONAL OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.
M. WOLOHAN	4/16/21	M. PHILIPPS	4/16/21	
DRAWN BY	DATE	SHEET NAME		SCALE
R. STONE	4/16/21			

ESCALON-BELLOTA ROAD BRIDGE
(OVER LITTLE JOHNS CREEK)
FEDERAL AID PROJECT NO. 5929 (238)

REGISTERED PROFESSIONAL ENGINEER — M. WOLOHAN — No. 67743 — Exp. 06/30/21 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS BRIDGE DIVISION
1810 EAST HAZELTON AVENUE
STOCKTON, CALIFORNIA 95205
PHONE: (209) 468 - 3000
FAX: (209) 468 - 2999

T·Y LIN INTERNATIONAL
1545 River Park Drive, Suite 201
SACRAMENTO, CA 95815

SHEET NO. 11 of 18 / 32 of 39

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

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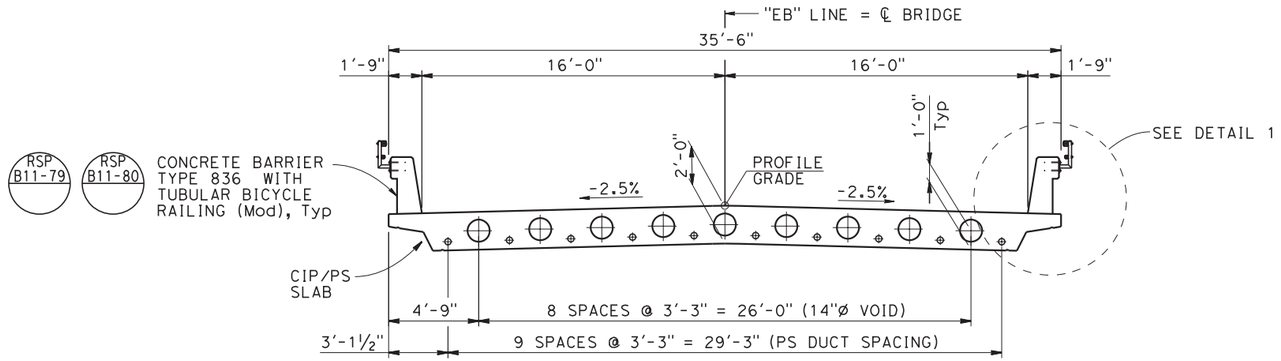
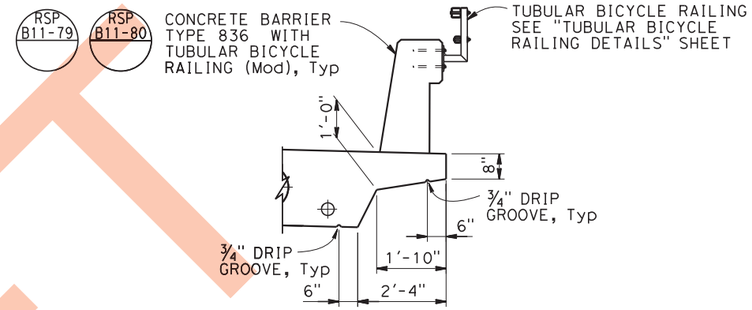


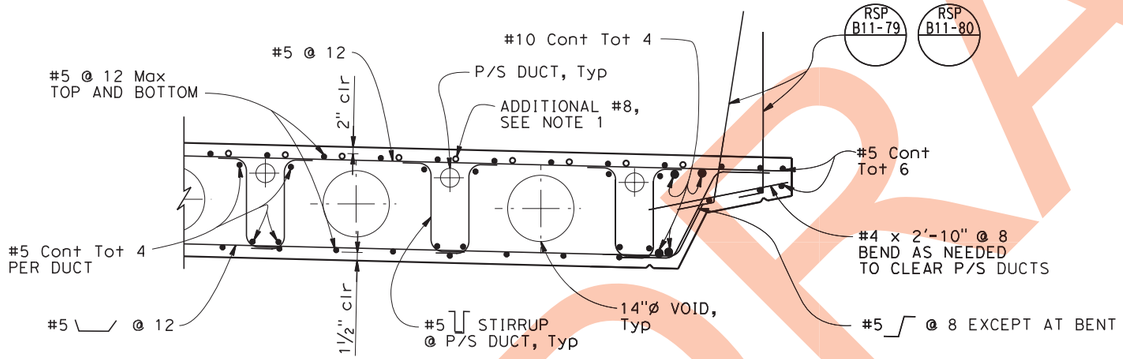
TYPICAL SECTION

¼" = 1'-0"



DETAIL 1

½"=1'-0"



PART TYPICAL SECTION

¾"=1'-0"

B0-5 B8-5 RSP B11-79 RSP B11-80

NOTE:

1. For Additional Reinforcement see Section 1 "CONCRETE SLAB DETAILS NO. 2" sheet.

TYPICAL SECTION

95% SUBMITTAL - NOT FOR CONSTRUCTION

PROJECT NAME:

DRAFT

PROJECT ENGINEER	DATE	CHECKED BY	DATE	T. Y. LIN INTERNATIONAL OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.
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DRAWN BY	DATE	SHEET NAME		SCALE
R. STONE	4/16/21			

ESCALON-BELLOTA ROAD BRIDGE
(OVER LITTLE JOHNS CREEK)
FEDERAL AID PROJECT NO. 5929 (238)

REGISTERED PROFESSIONAL ENGINEER — M. WOLOHAN — No. 67743 — Exp. 06/30/21 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS BRIDGE DIVISION
1810 EAST HAZELTON AVENUE
STOCKTON, CALIFORNIA 95205
PHONE: (209) 468 - 3000
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T·Y LIN INTERNATIONAL
1545 River Park Drive, Suite 201
SACRAMENTO, CA 95815

SHEET NO. 12 of 18 / 33 of 39

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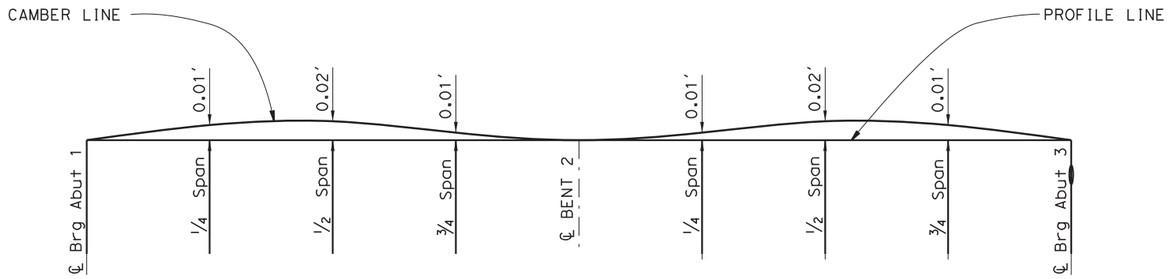
DRAWER	SHEET NO.



CAMBER DIAGRAM

No Scale

NOTE:
Camber does not include allowance for falsework settlement.

PRESTRESSING NOTES

270 ksi Low Relaxation Strand:

P_{jack}	7,900 kips
Anchor Set	3/8 in
Total Number of ducts	10

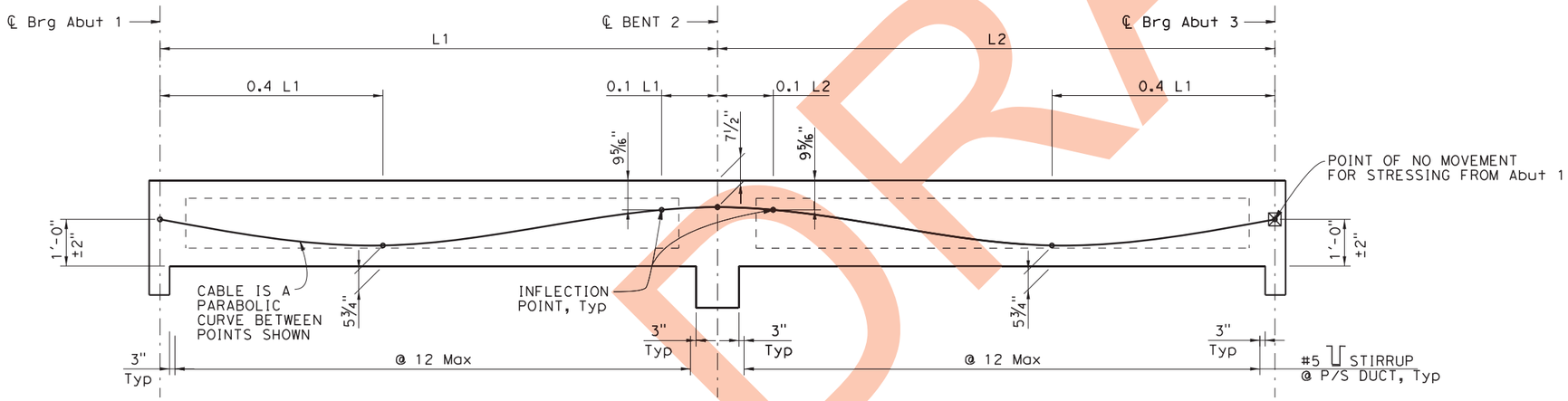
Distribution of prestress force (Pjack) between tendons shall not exceed the ratio of 10:9.

Concrete: f'_c = 4.0 ksi @ 28 days

f'_{ci} = 3.8 ksi @ time of stressing.

Contractor shall submit elongation calculations based on initial stress at
☒ = 0.938 times jacking stress.

One end stressing shall be performed from either end.



LONGITUDINAL ELEVATION

No Scale

CONCRETE SLAB DETAILS NO. 1

95% SUBMITTAL - NOT FOR CONSTRUCTION

PROJECT NAME:

DRAFT

USERNAME => rhidalgo DATE PLOTTED => 4/16/2021 TIME PLOTTED => 8:35:16 AM FILE => 710077-k-tsdet01.dgn

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DRAWN BY	DATE	SHEET NAME		SCALE
R. STONE	4/16/21			

ESCALON-BELLOTA ROAD BRIDGE
(OVER LITTLE JOHNS CREEK)
FEDERAL AID PROJECT NO. 5929 (238)

REGISTERED PROFESSIONAL ENGINEER — M. WOLOHAN — No. 67743 — Exp. 06/30/21 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS BRIDGE DIVISION
1810 EAST HAZELTON AVENUE
STOCKTON, CALIFORNIA 95205
PHONE: (209) 468 - 3000
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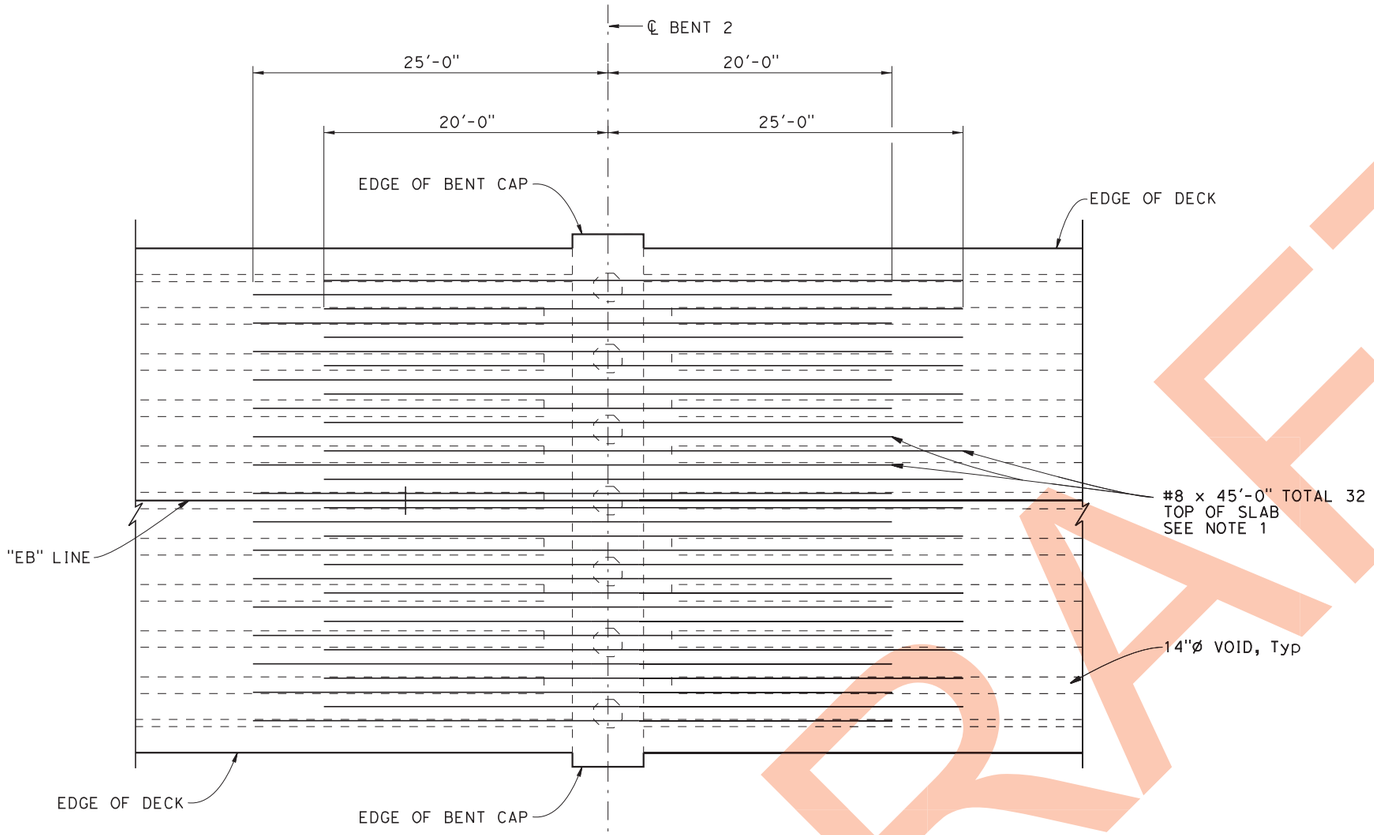
T·Y LIN INTERNATIONAL
1545 River Park Drive, Suite 201
SACRAMENTO, CA 95815

SHEET NO. 13 of 34 39

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES 0 1 2 3

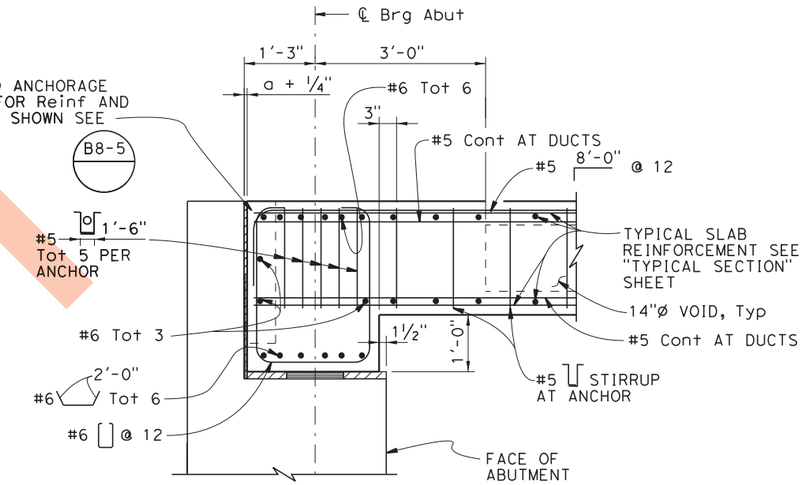


ADDITIONAL SLAB REINFORCEMENT

NO SCALE

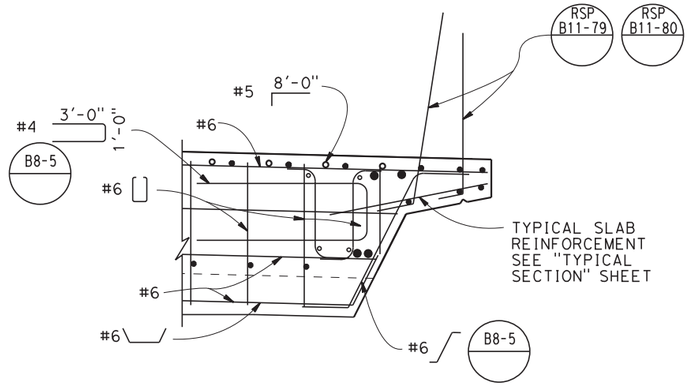
NOTE:

1. All additional reinforcement shall be evenly distributed across the width of Bridge, centered about "EB" Line.



END DIAPHRAGM

3/4"=1'-0"



SECTION AT END DIAPHRAGM

3/4"=1'-0"

CONCRETE SLAB DETAILS NO. 2

95% SUBMITTAL - NOT FOR CONSTRUCTION

PROJECT NAME:

DRAFT

PROJECT ENGINEER	DATE	CHECKED BY	DATE	T. Y. LIN INTERNATIONAL OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.
M. WOLOHAN	4/16/21	M. PHILIPPS	4/16/21	
DRAWN BY	DATE	SHEET NAME		SCALE
R. STONE	4/16/21			

ESCALON-BELLOTA ROAD BRIDGE
(OVER LITTLE JOHNS CREEK)
FEDERAL AID PROJECT NO. 5929 (238)

REGISTERED PROFESSIONAL ENGINEER
M. WOLOHAN
No. 67743
EXP. 06/30/21
CIVIL
STATE OF CALIFORNIA

PROJECT ENGINEER

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC
WORKS BRIDGE DIVISION
1810 EAST HAZELTON AVENUE
STOCKTON, CALIFORNIA 95205
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FAX: (209) 468 - 2999

T·Y LIN INTERNATIONAL
1545 River Park Drive, Suite 201
SACRAMENTO, CA 95815

SHEET NO.
14 of 18
35 of 39

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES
0 1 2 3

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	CO RD			

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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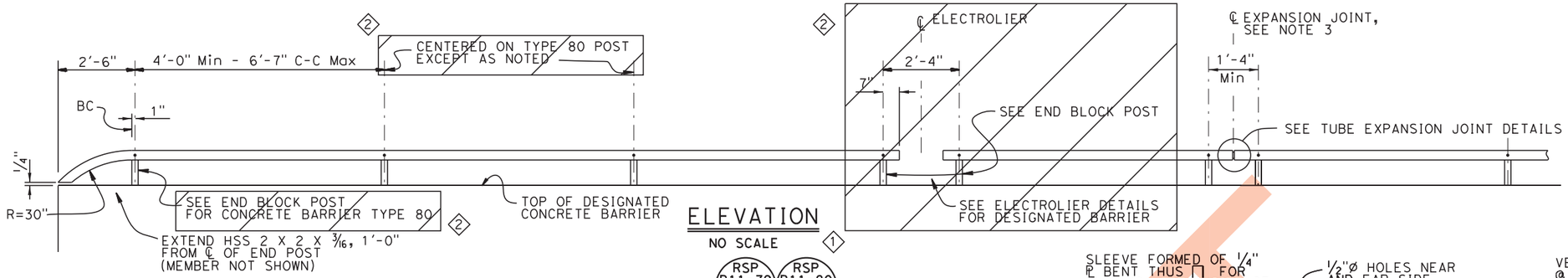
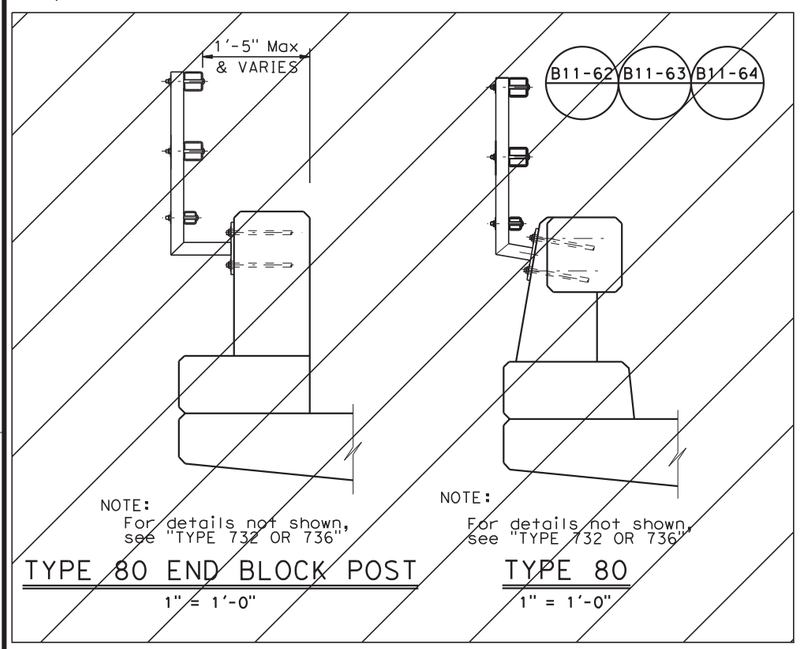


ELEVATION

NO SCALE

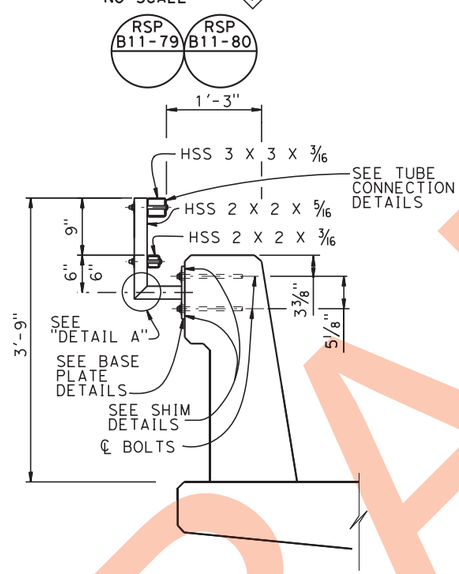


TYPE 80 END BLOCK POST

1" = 1'-0"

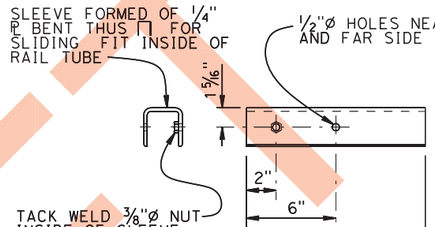
TYPE 80

1" = 1'-0"



1 TYPE 836

1" = 1'-0"



SLEEVE DETAIL

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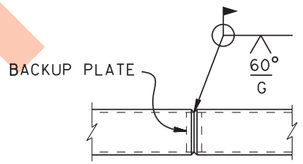

WELDED SPLICE DETAIL

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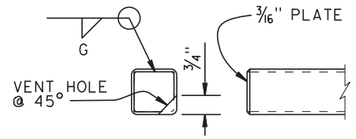
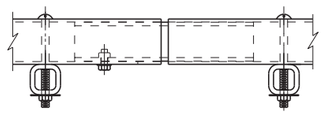
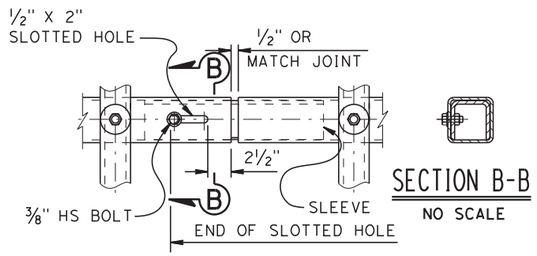


RAIL CAP DETAIL

NO SCALE



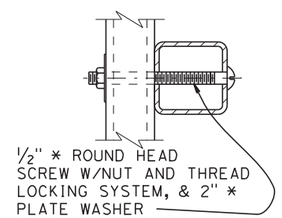


SECTION B-B

NO SCALE

TUBE EXPANSION JOINT DETAILS

NO SCALE



TUBE CONNECTION DETAIL

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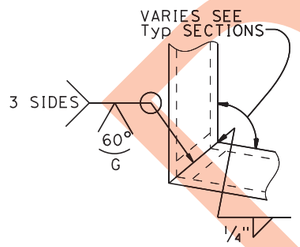
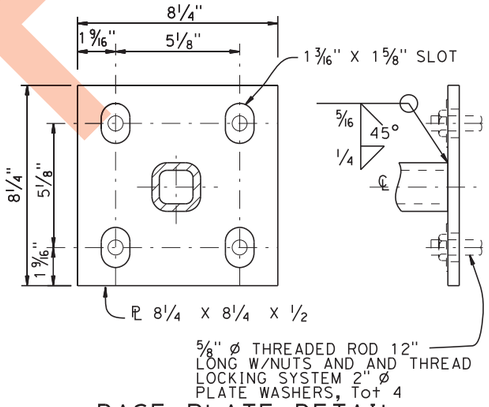


DETAIL A

NO SCALE



BASE PLATE DETAIL

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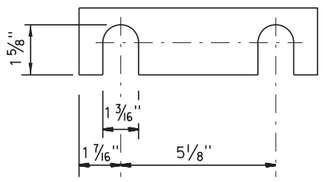


SHIM DETAILS

NO SCALE

NOTES:

1. Post must be normal to railing.
2. Rail tubes must be shop bent or fabricated to fit horizontal curve when radius is less than 950'.
3. Tube expansion joints must be located in the tubes spanning deck or wall joints. Increase joint width in tubes to match expansion joint width and increase sleeve length correspondingly.
4. Top rail tube must be continuous over not less than two posts except a short post spacing is permitted near deck or wall joints, electroliers, or other rail discontinuities as noted.
5. See Project Plans for limits of tubular bicycle railing.

DRAFT

SHEET NO. 15 of 36 18 39

STANDARD DRAWING

FILE NO. xs16-035

APPROVAL DATE October 2014

1 Detail Modified

2 Detail not part of contract

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO.

POST MILE

ESCALON-BELLOTA ROAD BRIDGE

TUBULAR BICYCLE RAILING DETAILS

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT:

PROJECT NUMBER & PHASE:

CONTRACT NO.:

DISREGARD PRINTS BEARING EARLIER REVISION DATES

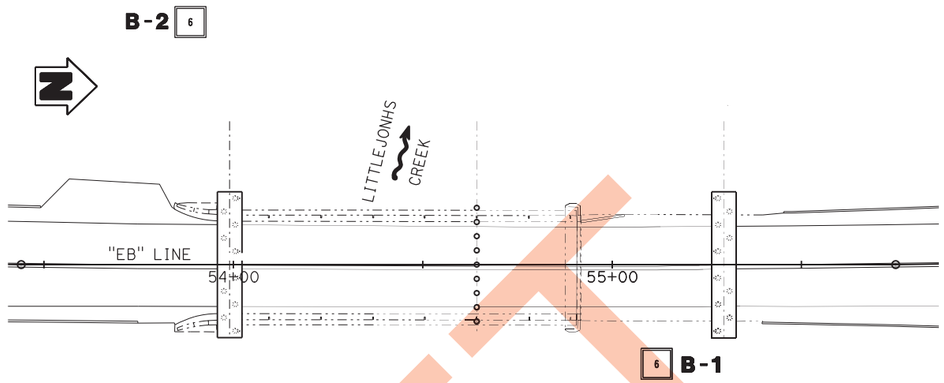
REVISION DATES				SHEET	OF
8/7/12	10-1-14				

BENCH MARK:

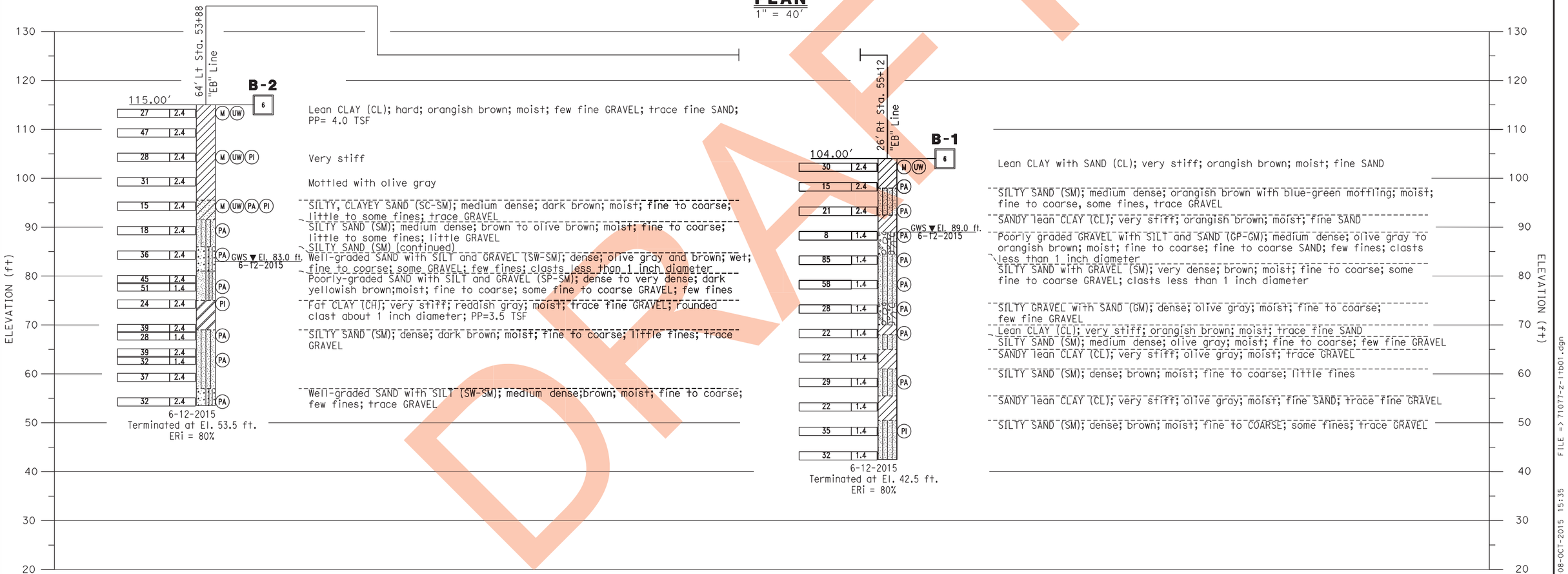
ELEVATIONS ARE BASED NGS MONUMENT HS2227 (CA 2 57 USE) (NAVD 88 DATUM).
ELEVATION = 115.1 FROM DATASHEET RETRIEVED 8/5/2013.
BRASS DISK IN SOUTHWEST CORNER OF BRIDGE CURB OVER LITTLE JOHN CREEK.
12.5' FEET WEST OF THE CENTER LINE OF THE ROAD, 1.8' FEET SOUTH OF THE
SOUTH END OF THE WEST GUARDRAIL, AND ABOUT 0.50' HIGHER THAN THE ROAD.

NOTES:

(1) THIS LOTB SHEET WAS PREPARED IN ACCORDANCE WITH CALTRANS SOIL AND ROCK LOGGING, CLASSIFICATION AND PRESENTATION MANUAL (2010).
(2) 2.4" SOIL SAMPLES WERE TAKEN USING A 3.0" O.D. 2.42" I.D. CALIFORNIA MODIFIED SAMPLER, 1.4" SOIL SAMPLES WERE TAKEN USING A 2.0" O.D. 1.4" I.D. STANDARD PENETRATION TEST (SPT) SAMPLER.
(3) AN AUTOMATIC TRIP HAMMER SYSTEM CONSISTING OF A HAMMER WEIGHT OF 140 LBS AND 30" DROP WAS USED TO ADVANCE THE CALIFORNIA MODIFIED SAMPLER.



PLAN
1" = 40'



PROFILE
HOR. 1" = 50'
VER. 1" = 10'

STATIONING ALONG "EB" LINE
52+00 53+00 54+00 55+00 56+00

Dist.	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	CO RD			

Curt Scheyhing
REGISTERED CIVIL ENGINEER
10-7-15
DATE

REGISTERED PROFESSIONAL ENGINEER
CURT SCHEYHING
No. G.E. 2766
Exp. 6-30-17
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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T·Y LIN INTERNATIONAL
3301 C STREET, BLDG. 100-M
SACRAMENTO, CA 95816

SAN JOAQUIN COUNTY, DEPARTMENT OF PUBLIC WORKS
1810 EAST HAZELTON AVENUE
STOCKTON, CA 95205

This LOTB was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010).

SHEET NO. 16 of 37 of 39

DRAWN BY	DATE	PROJECT ENGINEER	DATE	CHECKED BY	DATE
B. ANDERSON	10/7/15	-	10/7/15		

DRAWER	SHEET NO.

REVISION	DATE

COUNTY OF SAN JOAQUIN

SCALE 0 1 2 3

LOG OF TEST BORINGS 1 OF 3

ESCALON-BELLOTA ROAD BRIDGE
OVER LITTLEJOHNS CREEK

N:\Projects_BA\BA002 Escallon Bellota Road Bridge (29C-038)\Drafting\CAD Files from TY Lin\LOTB 09162015\71077-z-ltb01.dgn

USERNAME => bretta DATE =>08-OCT-2015 15:35 FILE => 71077-z-ltb01.dgn

DRAFT

REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010)

GROUP SYMBOLS AND NAMES

Graphic/Symbol	Group Names	Graphic/Symbol	Group Names
GW	Well-graded GRAVEL Well-graded GRAVEL with SAND	CL	Lean CLAY Lean CLAY with SAND Lean CLAY with GRAVEL SANDY lean CLAY SANDY lean CLAY with GRAVEL GRAVELLY lean CLAY GRAVELLY lean CLAY with SAND
GP	Poorly-graded GRAVEL Poorly-graded GRAVEL with SAND		
GW-GM	Well-graded GRAVEL with SILT Well-graded GRAVEL with SILT and SAND	CL-ML	SILTY CLAY SILTY CLAY with SAND SILTY CLAY with GRAVEL SANDY SILTY CLAY SANDY SILTY CLAY with GRAVEL GRAVELLY SILTY CLAY GRAVELLY SILTY CLAY with SAND
GW-GC	Well-graded GRAVEL with CLAY (or SILTY CLAY) Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		
GP-GM	Poorly-graded GRAVEL with SILT Poorly-graded GRAVEL with SILT and SAND	ML	SILT SILT with SAND SILT with GRAVEL SANDY SILT SANDY SILT with GRAVEL GRAVELLY SILT GRAVELLY SILT with SAND
GP-GC	Poorly-graded GRAVEL with CLAY (or SILTY CLAY) Poorly-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		
GM	SILTY GRAVEL SILTY GRAVEL with SAND	OL	ORGANIC lean CLAY ORGANIC lean CLAY with SAND ORGANIC lean CLAY with GRAVEL SANDY ORGANIC lean CLAY SANDY ORGANIC lean CLAY with GRAVEL GRAVELLY ORGANIC lean CLAY GRAVELLY ORGANIC lean CLAY with SAND
GC	CLAYEY GRAVEL CLAYEY GRAVEL with SAND		
GC-GM	SILTY, CLAYEY GRAVEL SILTY, CLAYEY GRAVEL with SAND	OL	ORGANIC SILT ORGANIC SILT with SAND ORGANIC SILT with GRAVEL SANDY ORGANIC SILT SANDY ORGANIC SILT with GRAVEL GRAVELLY ORGANIC SILT GRAVELLY ORGANIC SILT with SAND
SW	Well-graded SAND Well-graded SAND with GRAVEL		
SP	Poorly-graded SAND Poorly-graded SAND with GRAVEL	CH	Fat CLAY Fat CLAY with SAND Fat CLAY with GRAVEL SANDY fat CLAY SANDY fat CLAY with GRAVEL GRAVELLY fat CLAY GRAVELLY fat CLAY with SAND
SW-SM	Well-graded SAND with SILT Well-graded SAND with SILT and GRAVEL		
SW-SC	Well-graded SAND with CLAY (or SILTY CLAY) Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)	MH	Elastic SILT Elastic SILT with SAND Elastic SILT with GRAVEL SANDY elastic SILT SANDY elastic SILT with GRAVEL GRAVELLY elastic SILT GRAVELLY elastic SILT with SAND
SP-SM	Poorly-graded SAND with SILT Poorly-graded SAND with SILT and GRAVEL		
SP-SC	Poorly-graded SAND with CLAY (or SILTY CLAY) Poorly-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)	OH	ORGANIC fat CLAY ORGANIC fat CLAY with SAND ORGANIC fat CLAY with GRAVEL SANDY ORGANIC fat CLAY SANDY ORGANIC fat CLAY with GRAVEL GRAVELLY ORGANIC fat CLAY GRAVELLY ORGANIC fat CLAY with SAND
SM	SILTY SAND SILTY SAND with GRAVEL		
SC	CLAYEY SAND CLAYEY SAND with GRAVEL	OH	ORGANIC elastic SILT ORGANIC elastic SILT with SAND ORGANIC elastic SILT with GRAVEL SANDY ORGANIC elastic SILT SANDY ORGANIC elastic SILT with GRAVEL GRAVELLY ORGANIC elastic SILT GRAVELLY ORGANIC elastic SILT with SAND
SC-SM	SILTY, CLAYEY SAND SILTY, CLAYEY SAND with GRAVEL		
PT	PEAT	OL/OH	ORGANIC SOIL ORGANIC SOIL with SAND ORGANIC SOIL with GRAVEL SANDY ORGANIC SOIL SANDY ORGANIC SOIL with GRAVEL GRAVELLY ORGANIC SOIL GRAVELLY ORGANIC SOIL with SAND
	COBBLES COBBLES and BOULDERS BOULDERS		

FIELD AND LABORATORY TESTING

- (C) Consolidation (ASTM D 2435)
- (CL) Collapse Potential (ASTM D 5333)
- (CP) Compaction Curve (CTM 216)
- (CR) Corrosivity Testing (CTM 643, CTM 422, CTM 417)
- (CU) Consolidated Undrained Triaxial (ASTM D 4767)
- (DS) Direct Shear (ASTM D 3080)
- (EI) Expansion Index (ASTM D 4829)
- (M) Moisture Content (ASTM D 2216)
- (OC) Organic Content-% (ASTM D 2974)
- (P) Permeability (CTM 220)
- (PA) Particle Size Analysis (ASTM D 422)
- (PI) Plasticity Index (AASHTO T 90) Liquid Limit (AASHTO T 89)
- (PL) Point Load Index (ASTM D 5731)
- (PM) Pressure Meter
- (R) R-Value (CTM 301)
- (SE) Sand Equivalent (CTM 217)
- (SG) Specific Gravity (AASHTO T 100)
- (SL) Shrinkage Limit (ASTM D 427)
- (SW) Swell Potential (ASTM D 4546)
- (UC) Unconfined Compression-Soil (ASTM D 2166) Unconfined Compression-Rock (ASTM D 2938)
- (UU) Unconsolidated Undrained Triaxial (ASTM D 2850)
- (UW) Unit Weight (ASTM D 4767)

APPARENT DENSITY OF COHESIONLESS SOILS

Description	SPT N_{60} (Blows / 12 in.)
Very Loose	0 - 5
Loose	5 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	Greater than 50

MOISTURE

Description	Criteria
Dry	No discernable moisture
Moist	Moisture present, but no free water
Wet	Visible free water

PERCENT OR PROPORTION OF SOILS

Description	Criteria
Trace	Particles are present but estimated to be less than 5%
Few	5% - 10%
Little	15% - 25%
Some	30% - 45%
Mostly	50% - 100%

PARTICLE SIZE

Description		Size (in.)
Boulder		Greater than 12
Cobble		3 - 12
Gravel	Coarse	3/4 - 3
	Fine	1/5 - 3/4
Sand	Coarse	1/16 - 1/5
	Medium	1/64 - 1/16
	Fine	1/300 - 1/64
Silt and Clay		Less than 1/300

SHEET NO.	DRAWER

Dist.	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	CO RD			

Curt Scheyhing
REGISTERED CIVIL ENGINEER

10-7-15
DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CURT SCHEYHING — No. G.E. 2766 — Exp. 6-30-17 — CIVIL — STATE OF CALIFORNIA

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T.Y.LIN INTERNATIONAL
3301 C STREET, BLDG. 100-M
SACRAMENTO, CA 95816

SAN JOAQUIN COUNTY, DEPARTMENT OF PUBLIC WORKS
1810 EAST HAZELTON AVENUE
STOCKTON, CA 95205

SHEET NO.
17 18
38 of 39

DRAWN BY	DATE	PROJECT ENGINEER	DATE	CHECKED BY	DATE
B. ANDERSON	10/7/15	-	10/7/15		

DRAWER	SHEET NO.

REVISION	DATE

COUNTY OF SAN JOAQUIN

SCALE 0 1 2 3

LOG OF TEST BORINGS 2 OF 3

ESCALON-BELLOTA ROAD BRIDGE
OVER LITTLEJOHNS CREEK

DRAFT

N:\Projects_BA\BA002 Escallon Bellota Road Bridge (29C-038)\Drafting\CAD Files from TY Lin\LOTB 09162015\71077-z-ltb02.dgn

USERNAME => bretto
DATE => 08-OCT-2015 12:34
FILE => 71077-z-ltb02.dgn

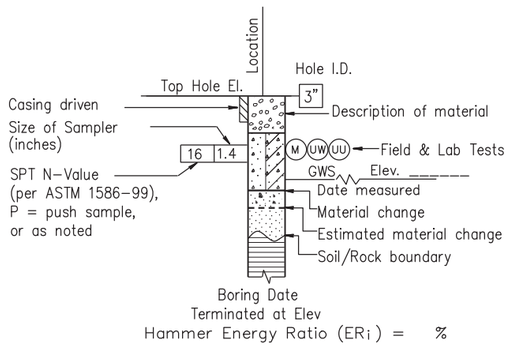
REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010)

CEMENTATION	
Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

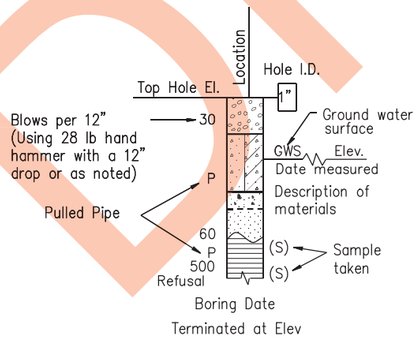
BOREHOLE IDENTIFICATION		
Symbol	Hole Type	Description
Size	A	Auger Boring
Size	R P	Rotary drilled boring Rotary percussion boring (air)
Size	R	Rotary drilled diamond core
Size	HD HA	Hand driven (1–inch soil tube) Hand Auger
●	D	Dynamic Cone Penetration Boring
▲	CPT	Cone Penetration Test (ASTM D 5778–95)
⬚	O	Other
Note: Size in inches.		

CONSISTENCY OF COHESIVE SOILS				
Description	Unconfined Compressive Strength (tsf)	Pocket Penetrometer Measurement (tsf)	Torvane Measurement (tsf)	Field Approximation
Very Soft	< 0.25	< 0.25	< 0.12	Easily penetrated several inches by fist
Soft	0.25 to 0.50	0.25 to 0.50	0.12 to 0.25	Easily penetrated several inches by thumb
Medium Stiff	0.50 to 1.0	0.50 to 1.0	0.25 to 0.50	Penetrated several inches by thumb with moderate effort
Stiff	1 to 2	1 to 2	0.50 to 1.0	Readily indented by thumb but penetrated only with great effort
Very Stiff	2 to 4	2 to 4	1.0 to 2.0	Readily indented by thumbnail
Hard	> 4.0	> 4.0	> 2.0	Indented by thumbnail with difficulty

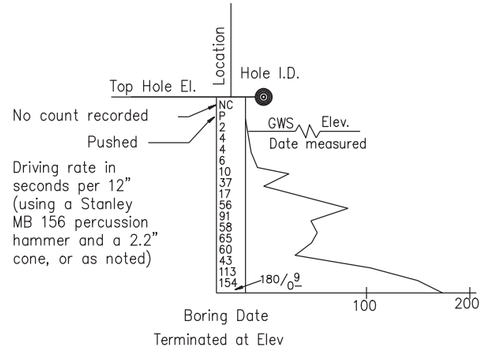
PLASTICITY OF FINE-GRAINED SOILS	
Description	Criteria
Nonplastic	A 1/8–inch thread cannot be rolled at any water content.
Low	The thread can barely be rolled and the lump cannot be formed when drier than the plastic limit.
Medium	The thread is easy to roll and not much time is required to reach the plastic limit. The thread cannot be rerolled after reaching the plastic limit. The lump crumbles when drier than the plastic limit.
High	It takes considerable time rolling and kneading to reach the plastic limit. The thread can be rerolled several times after reaching the plastic limit. The lump can be formed without crumbling when drier than the plastic limit.



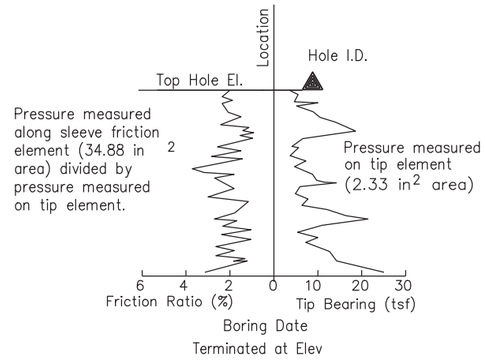
ROTARY BORING



HAND BORING



DYNAMIC CONE PENETRATION BORING



CONE PENETRATION TEST (CPT) SOUNDING

Dist.	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	CO RD			

Curt Scheyhing
REGISTERED CIVIL ENGINEER
10-7-15
DATE

PROFESSIONAL ENGINEER — CURT SCHEYHING — No. G.E. 2766 — Exp. 6-30-17 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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T·Y LIN INTERNATIONAL
3301 C STREET, BLDG. 100-M
SACRAMENTO, CA 95816

SAN JOAQUIN COUNTY, DEPARTMENT OF PUBLIC WORKS
1810 EAST HAZELTON AVENUE
STOCKTON, CA 95205

DRAWER | SHEET NO.

SHEET NO. 18 of 39

DRAWN BY	DATE	PROJECT ENGINEER	DATE	CHECKED BY	DATE
B. ANDERSON	10/7/15	-	10/7/15		

DRAWER	SHEET NO.

REVISION	DATE

COUNTY OF SAN JOAQUIN

SCALE 0 1 2 3

LOG OF TEST BORINGS 3 OF 3

ESCALON-BELLOTA ROAD BRIDGE
OVER LITTLEJOHNS CREEK

N:\Projects_BA\BA002 Escallon Bellota Road Bridge (29C-038)\Drafting\CAD Files from TY Lin\LOTB 09162015\71077-z-ltb03.dgn

USERNAME => bretta DATE => 08-OCT-2015 12:34 FILE => 71077-z-ltb03.dgn

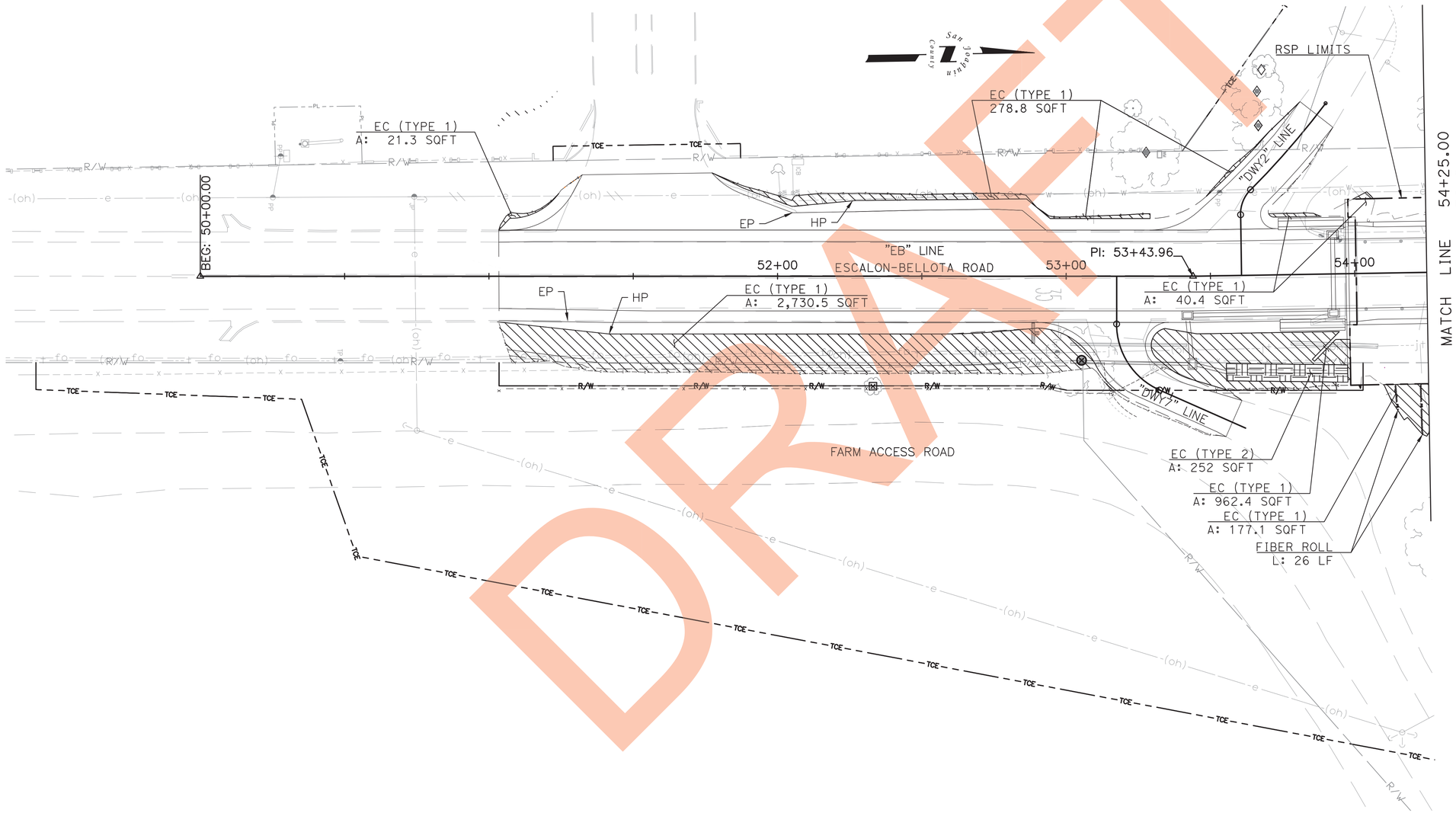
DRAFT

NOTES:

1. SEE EROSION (HYDROSEED) SPECIFICATIONS FOR HYDROSEED MIX. APPLY HYDROSEED TO ALL DISTURBED AREAS UNLESS OTHER PLANTING IS SPECIFIED. APPLY EROSION CONTROL (TYPE 2) TO THE FULL WIDTH OF BIOSWALES, TYPE 1 AT ALL OTHER LOCATIONS.
2. SEE DRAINAGE DETAILS FOR BIOFILTRATION SWALE.

LEGEND:

- EROSION CONTROL (TYPE 1)
- EROSION CONTROL (TYPE 2)
- TREE REMOVAL (TYPE A) >5" & <= 18"
- TREE REMOVAL (TYPE B) >18" & <= 24"
- TREE REMOVAL (TYPE C) DBH >24"
- PROTECT TREE IN PLACE



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APPROVED FOR EROSION CONTROL WORK ONLY.

REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
1810 EAST HAZELTON AVENUE STOCKTON, CA 95205
TEL: (209) 468-3000
FAX: (209) 468-2999

DESIGNED:
DRAWN:
CHECKED:
APPROVED:

TYLin
1545 RIVER PARK DR, SUITE 201
SACRAMENTO, CA 95815

REGISTERED PROFESSIONAL ENGINEER
M. WOLOHAN
No. 67743
Exp. 06/30/25
CIVIL
STATE OF CALIFORNIA

PROJECT ENGINEER

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

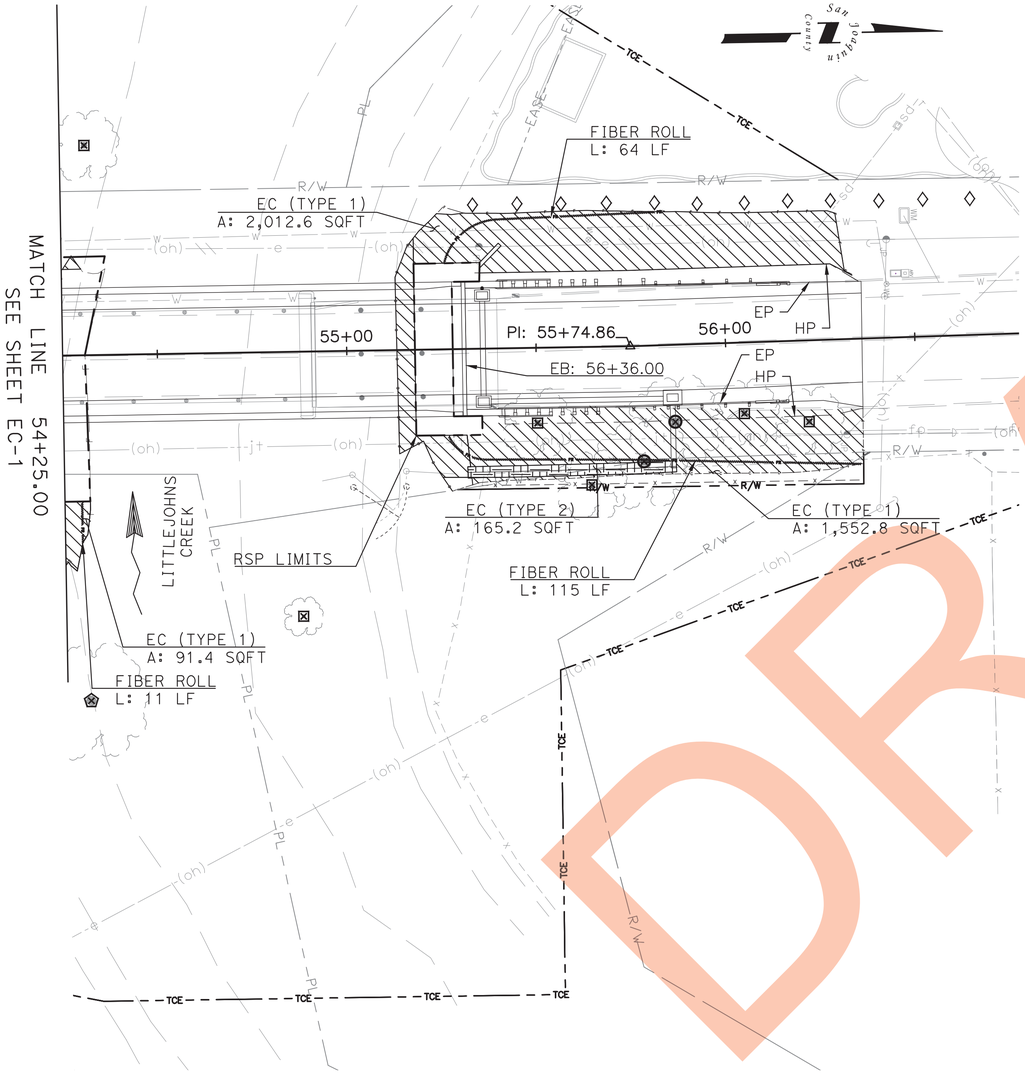
EROSION CONTROL PLAN

EC-1
ORIGINAL SCALE: 1"=20'
DATE: 6/17/24
SHEET 12 OF 40

XRef List:. | 077-X-TP | 077-C-RD-ALT 1-400ft Approach | 077-PROPOSED RW | BRDR_ENG_ANSLD - Copy | 077-X-LANDNET | 077-X-Trees | 077-C-GD |
Jun. 17, 2024 - 13:06:25 DWG Name: P:\Y10077 - Escalon-Bellota Bridge\500_Engineering\510_Civil\511_CADD\SHEET\Y7-077-EC.dwg Updated By: jeffrey.hoge

NOTES:

1. SEE SHEET EC-1 FOR EROSION CONTROL NOTES AND LEGEND.



TREE QUANTITIES

SHEET No.	TREE REMOVAL (N)			PROTECT IN PLACE
	TYPE A	TYPE B	TYPE C	
	EA	EA	EA	EA
EC-1	1	1	0	4
EC-2	6	2	1	12
TOTAL	11			16

(N) - NOT A SEPARATE PAY ITEM,
FOR INFORMATION ONLY.

EROSION CONTROL (TYPE 1)

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE
		DESCRIPTION	TYPE	
STEP 1	COMPOST	COMPOST	MEDIUM	68 CY/ACRE
STEP 2	HYDROSEED	SEED	MIX 2	27.5 LB/ACRE
		FIBER	WOOD	500 LB/ACRE
STEP 3	BONDED FIBER MATRIX (SQFT)	FIBER	WOOD	1,500 LB/ACRE
		TACKIFIER	GUAR	125 LB/ACRE

EROSION CONTROL (TYPE 2)

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE
		DESCRIPTION	TYPE	
STEP 1	HYDROSEED	SEED	MIX 1	22 LB/ACRE
		FIBER	WOOD	500 LB/ACRE
STEP 2	BONDED FIBER MATRIX (SQFT)	FIBER	WOOD	1,500 LB/ACRE
		TACKIFIER	GUAR	125 LB/ACRE

EROSION CONTROL QUANTITIES

EC SHEET	ITEM	COMPOST	HYDROSEED	BONDED FIBER MATRIX	FIBER ROLL
		CY	SQFT	SQFT	LF
EC-1	EC TYPE 1	7	4,171	4171	26
	EC TYPE 2		252	252	
EC-2	EC TYPE 1	6	3,657	3,657	190
	EC TYPE 2		166	166	
TOTAL		13	8,247	8,246	216

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REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
1810 EAST HAZELTON AVENUE STOCKTON, CA 95205
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CHECKED: A. MELKIC
APPROVED:

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SACRAMENTO, CA 95815

REGISTERED PROFESSIONAL ENGINEER
M. WOLOHAN
No. 67743
Exp. 06/30/25
CIVIL
STATE OF CALIFORNIA

PROJECT ENGINEER

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)
EROSION CONTROL PLAN

EC-2
ORIGINAL SCALE : 1"=20'
DATE: 6/17/24
SHEET 13 OF 40

XRef List: | 077-X-TP | 077-C-RD-ALT 1-400ft Approach | 077-PROPOSED RW | BRDR_ENG_ANSI_D - Copy | 077-X-LANDNET | 077-X-Trees | 077-ENV | 077-C-GD |
Mar. 30, 2021 - 10:38:22 DWG Name: P:\710077 - Escalon-Bellota Bridge\500_Engineering\510_Civil\511_CADD\SHEET\06-077-EC.dwg Updated By: JHOGE

NOTES

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE SAN JOAQUIN COUNTY OFFICE..
2. FOR TREE PLANTING DETAIL REFER TO COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS STANDARD PLAN R-31.

LEGEND

- CUT
- FILL
- HINGE POINT
- FLOW LINE
- FENCE
- RIGHT OF WAY
- PROPERTY LINE
- Exist WATER
- Exist TELEPHONE
- Exist FIBER OPTIC
- Exist ELECTRIC OVERHEAD
- Exist JOINT OVERHEAD
- Exist FENCE

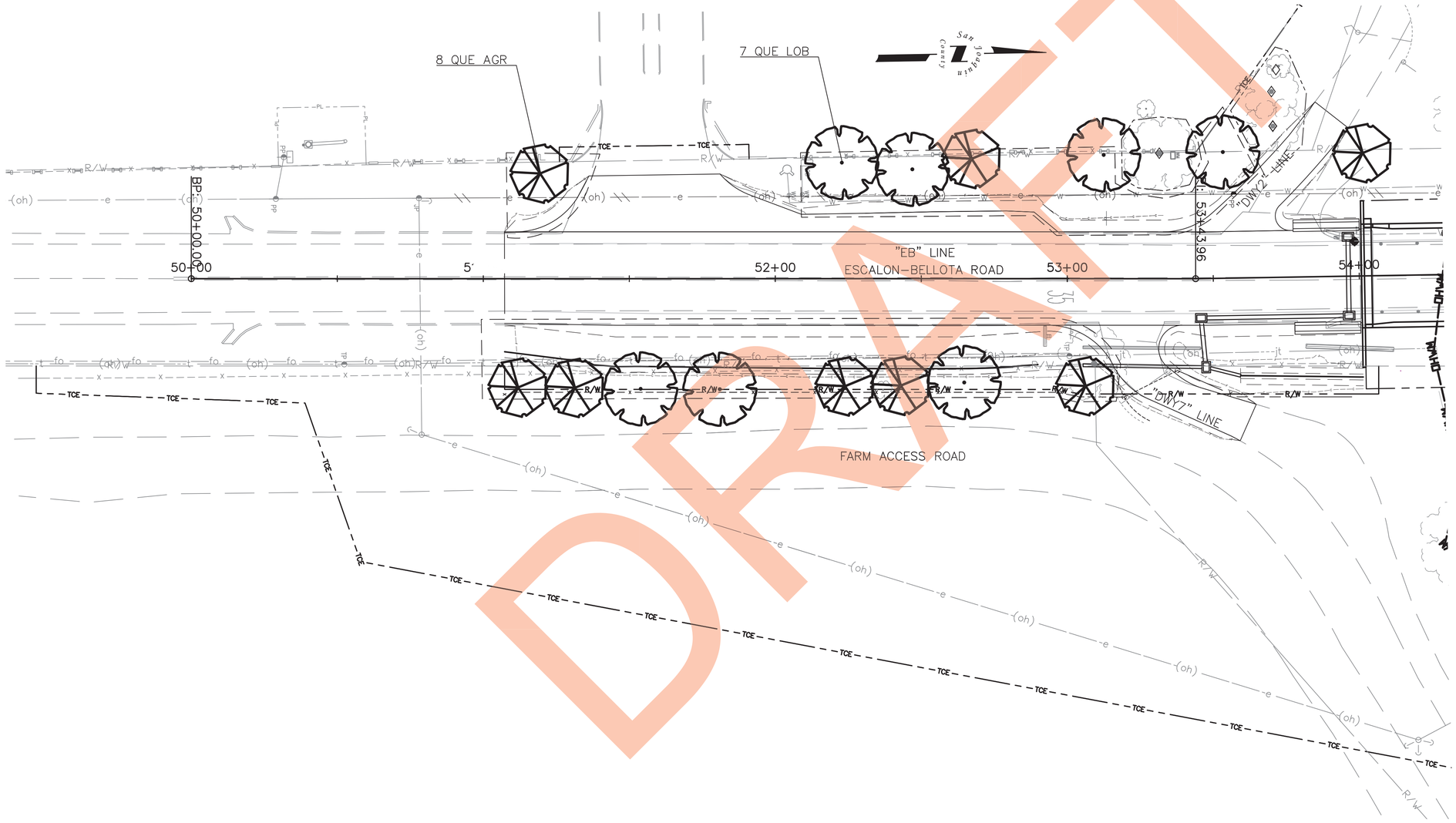
ROADSIDE CLEARING WORK LIMITS AND PLANT ESTABLISHMENT WORK LIMITS

MAINTAIN EXISTING PLANTING WORK LIMITS

EXISTING TREE TO REMAIN. PROTECT TREE IN PLACE

QUERCUS AGRIFOLIA

QUERCUS LOBATA



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REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
1810 EAST HAZELTON AVENUE STOCKTON, CA 95205
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FAX: (209) 468-2999

DESIGNED: L. HAYGOOD
DRAWN: S. KENNEY
CHECKED: L. HAYGOOD
APPROVED:

HAYGOOD & ASSOCIATES
HAYGOOD & ASSOCIATES LANDSCAPE ARCHITECTS
647 SANTA BARBARA ROAD BERKELEY, CALIFORNIA 94707 (510) 697-7855 HAYGOODASSOCIATES.COM

LICENSED LANDSCAPE ARCHITECT — LEAH HAYGOOD — Registered — 8-31-25 Renewal Date — Date — STATE OF CALIFORNIA

PROJECT LANDSCAPE ARCHITECT

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

LANDSCAPE PLAN

LA-1
ORIGINAL SCALE: 1"=20'
DATE: 02/01/2022
SHEET XX OF 50

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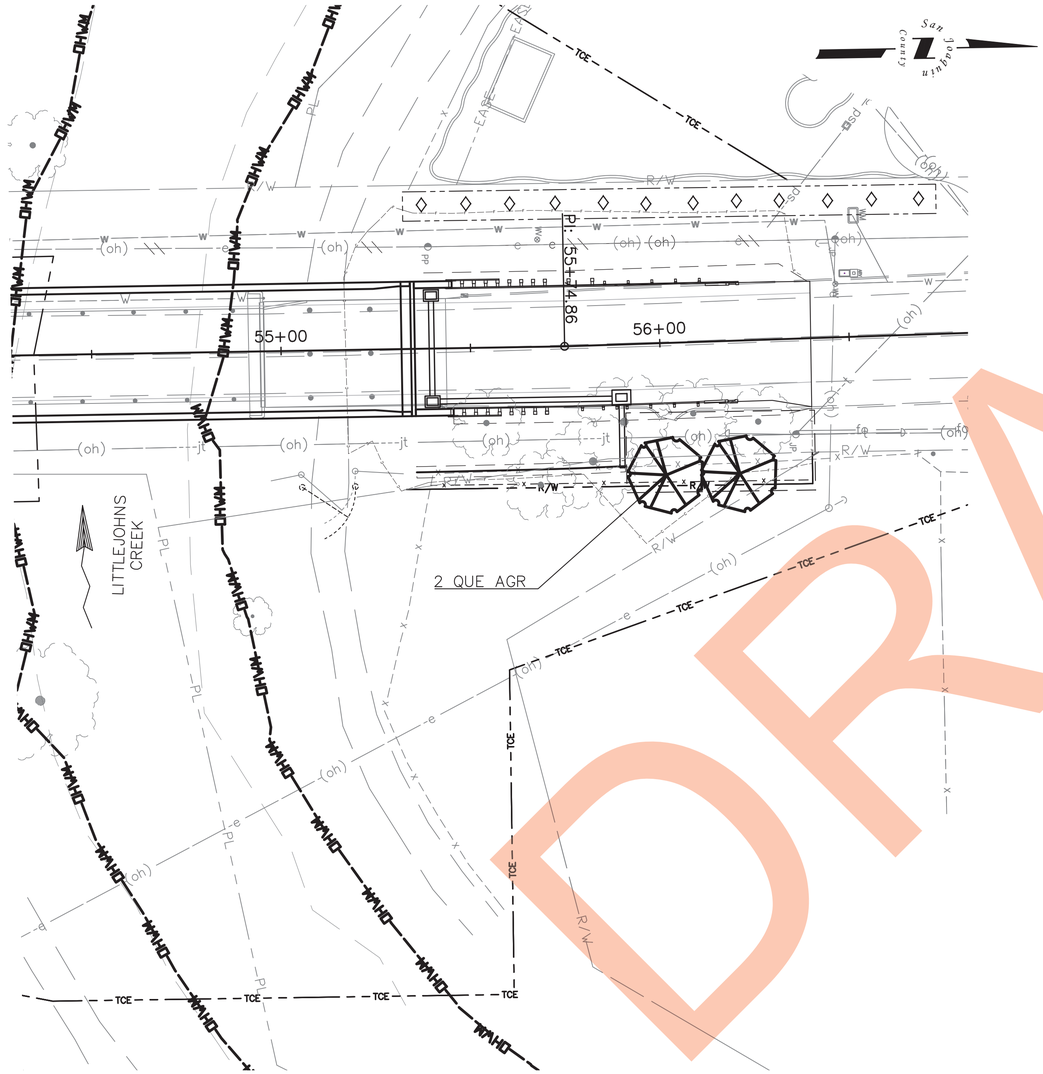
XRef List: | 077-X-TP | 077-C-RD-ALT 1-400ft Approach | 077-X-UTIL Updated | 077-PROPOSED RW | BRDR_ENG_ANSI_D - Copy | 077-X-LANDNET | 077-X-Trees |
Aug. 11, 2021 - 11:09:18 DWG Name: E:\Haygood & Associates Dropbox\Simon\Projects\TYLin\Escalon-Bellota Bridge\CAD

NOTES

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE SAN JOAQUIN COUNTY OFFICE..

2. FOR TREE PLANTING DETAIL REFER TO COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS STANDARD PLAN R-31.



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COUNTY OF SAN JOAQUIN
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DRAWN: S. KENNEY
CHECKED: L. HAYGOOD
APPROVED:

HAYGOOD & ASSOCIATES
HAYGOOD & ASSOCIATES LANDSCAPE ARCHITECTS
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PROJECT LANDSCAPE ARCHITECT

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

LANDSCAPE PLAN

LA-2
ORIGINAL SCALE : 1"=20'
DATE: 02/01/2022
SHEET XX OF 50

XRef List: | 077-X-TP | 077-C-RD-ALT 1-400ft Approach | 077-X-UTIL Updated | 077-PROPOSED RW | BRDR_ENG_ANSI_D - Copy | 077-X-Trees |
Mar. 30, 2021 - 10:38:22 DWG Name: E:\Haygood & Associates Dropbox\Simon\Projects\TYLin\Escalon-Bellota Bridge\CAD

NOTES

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE SAN JOAQUIN COUNTY OFFICE..
2. FOR TREE PLANTING DETAIL REFER TO COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS STANDARD PLAN R–31.

PLANT LEGEND

PLANT GROUP	PLANT No	SYMBOL	BOTANICAL NAME	COMMON NAME	HOLE SIZE		WOOD CHIP MULCH	APPLICATION RATES ①			ON CENTER SPACING	MINIMUM PLANTING DISTANCE FROM						REMARKS
					DIAMETER	DEPTH	BASIN	④ SOIL AMENDMENT	ORGANIC FERTILIZER PLT ESTB	PACKET FERTILIZER		ETW	EP	FENCE	WALL	PAVED DITCH	EARTH DITCH	
					INCH	INCH	CF	CF	OZ	EA	ft	ft	ft	ft	ft	ft	ft	
5 GAL	1		QUERCUS AGRIFOLIA	COAST LIVE OAK	24	36	1.5	1.5	1.5	2	20	10	10	3	15	15	17	TREE ②③
	2		QUERCUS LOBATA	VALLEY OAK	24	36	1.5	1.5	1.5	2	20	10	10	3	20	20	22	TREE ②③

UNDERLINED PORTIONS OF BOTANICAL NAME
INDICATE ABBREVIATION USED ON PLANTING PLAN

PLANT LEGEND NOTES: APPLICABLE WHERE CIRCLED

① QUANTITIES SHOWN ARE "PER PLANT" UNLESS SHOWN AS SQFT OR SQYD APPLICATION RATES
② STAKE TREE
③ FOLIAGE PROTECTOR REQUIRED
④ USE COMPOST SOIL AMENDMENT

PLANTING QUANTITIES

BOTANICAL NAME	COMMON NAME	PLANT GROUP 5 GAL	PACKET FERTILIZER	PLANT BASIN WOOD MULCH	PLANT BASIN SOIL AMENDMENT	PLANT BASIN ORGANIC FERTILIZER	FOLIAGE PROTECTOR
		EA	EA	CY	CY	LB	EA
QUERCUS AGRIFOLIA	COAST LIVE OAK	10	20	0.56	0.56	0.94	10
QUERCUS LOBATA	VALLEY OAK	7	14	0.39	0.39	0.66	7
	SUBTOTAL	17	34	0.95	0.95	1.60	17
	TOTAL	17	34	0.95	0.95	1.60	17

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APPROVED FOR LANDSCAPE WORK ONLY.

REVISION	DESCRIPTION	DATE

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
1810 EAST HAZELTON AVENUE STOCKTON, CA 95205
TEL: (209) 468–3000
FAX: (209) 468–2999

DESIGNED: L. HAYGOOD
DRAWN: S. KENNEY
CHECKED: L. HAYGOOD
APPROVED:

HAYGOOD & ASSOCIATES
HAYGOOD & ASSOCIATES LANDSCAPE ARCHITECTS
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LICENSED LANDSCAPE ARCHITECT — LEAH HAYGOOD — 8-31-25 — STATE OF CALIFORNIA

PROJECT LANDSCAPE ARCHITECT

ESCALON-BELLOTA ROAD BRIDGE (29C-038)
OVER LITTLEJOHNS CREEK
FEDERAL AID PROJECT No. BRLS-5929 (238)

PLANT LEGEND AND QUANTITIES

LA-3
ORIGINAL SCALE : NO SCALE
DATE: 02/01/2022
SHEET XX OF 50

XRef List: | 077-X-TP | 077-C-RD-ALT 1-400ft Approach | 077-X-UTIL Updated | 077-PROPOSED_RW | BRDR_ENG_ANSI_D - Copy | 077-X-LANDNET | 077-X-Trees |
Mar. 30, 2021 - 10:38:22 DWG Name: E:\Haygood & Associates Dropbox\Simon\Projects\TYLin\Escalon-Bellota Bridge\CAD

Escalon-Bellota Road Over Littlejohns Creek Bridge Replacement

County of San Joaquin
Department of Public Works – Bridge Division

STANDARD SPECIAL PROVISIONS

DRAFT

The standard special provisions contained herein have been prepared by and under the direction of the following registered persons.

February 3, 2022

REGISTERED CIVIL ENGINEER DATE

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STANDARD PLANS LIST

The standard plan sheets applicable to this Contract include those listed below. The applicable revised standard plans (RSPs) listed below are included in the project plans.

	ABBREVIATIONS, LINES, SYMBOLS, AND LEGEND
A3A	Abbreviations (Sheet 1 of 3)
A3B	Abbreviations (Sheet 2 of 3)
A3C	Abbreviations (Sheet 3 of 3)
A10A	Legend - Lines and Symbols (Sheet 1 of 5)
A10B	Legend - Lines and Symbols (Sheet 2 of 5)
A10C	Legend - Lines and Symbols (Sheet 3 of 5)
A10D	Legend - Lines and Symbols (Sheet 4 of 5)
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	PAVEMENT MARKERS, TRAFFIC LINES, AND PAVEMENT MARKINGS
A20A	Pavement Markers and Traffic Lines - Typical Details
RSP A20B	Pavement Markers and Traffic Lines - Typical Details
A24C	Pavement Markings - Symbols and Numerals
	EXCAVATION AND BACKFILL
A62A	Excavation and Backfill - Miscellaneous Details
A62C	Limits of Payment for Excavation and Backfill - Bridge
	OBJECT MARKERS, DELINEATORS, CHANNELIZERS, AND BARRICADES
RSP A73B	Markers
A73C	Delineators, Channelizers and Barricades
	MINOR CONCRETE VEGETATION CONTROL - GUARDRAIL SYSTEM
A77N5	Minor Concrete Vegetation Control - Guardrail System
A77N6	Minor Concrete Vegetation Control - Guardrail System - For Terminal System End Treatments
A77N11	Minor Concrete Vegetation Control - Guardrail System - Miscellaneous Details
	MIDWEST GUARDRAIL SYSTEM - TYPICAL LAYOUTS FOR STRUCTURES
RSP A77Q1	Midwest Guardrail System - Typical Layouts for Structure Approach
RSP A77Q4	Midwest Guardrail System - Typical Layouts for Structure Departure
	MIDWEST GUARDRAIL SYSTEM - CONNECTION DETAILS AND TRANSITION RAILING TO BRIDGE RAILINGS, ABUTMENTS AND WALLS
A77U2	Midwest Guardrail System - Connections to Bridge Railings without Sidewalks Details No. 2
RSP A77U4	Midwest Guardrail System - Transition Railing (Type WB-31)
	CURBS, DRIVEWAYS, DIKES, CURB RAMPS, AND ACCESSIBLE PARKING
A87B	Hot Mix Asphalt Dikes
	PAVEMENTS
P74	Pavement Edge Treatments
P76	Pavement Edge Treatments - New Construction
	DRAINAGE INLETS, PIPE INLETS AND GRATES
D72B	CIP Drainage Inlets - Types G1, G2, G3, G4, G5 and G6
D72C	CIP Drainage Inlets - Types G1, G2, G3, G4, G5 and G6
D72F	CIP Drainage Inlet Notes
D72G	CIP Drainage Inlet Tables
D73B	Precast Drainage Inlets - Types G1, G2, G3, G4, G5 and G6

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D73C	Precast Drainage Inlets - Types G1, G2, G3, G4, G5 and G6
D73F	Precast Drainage Inlet Notes
D73G	Precast Drainage Inlet Tables
D74	Drainage Inlet Details
D77A	Grate Details No. 1
	TEMPORARY CRASH CUSHIONS, RAILING AND TRAFFIC SCREEN
T1A	Temporary Crash Cushion, Sand Filled (Unidirectional)
T1B	Temporary Crash Cushion, Sand Filled (Bidirectional)
T2	Temporary Crash Cushion, Sand Filled (Shoulder Installations)
T3A	Temporary Railing (Type K)
T3B	Temporary Railing (Type K)
	TEMPORARY TRAFFIC CONTROL SYSTEMS
T9	Traffic Control System Tables for Lane and Ramp Closures
RSP T20	Traffic Control System Construction Work Zone Speed Limit Reduction Details
RSP T21	Traffic Control System Construction Work Zone Speed Limit Reduction Twenty-Four Hours a Day 7 Days a Week (24/7)
	BRIDGE DETAILS
RSP B0-1	Bridge Details
B0-3	Bridge Details
B0-5	Bridge Details
B0-13	Bridge Details
	PILES
RSP B2-8	Pile Details - Class 200
	JOINT SEALS
B6-21	Joint Seals (Maximum Movement Rating = 2")
	CAST-IN-PLACE POST-TENSIONED GIRDER
B8-5	Cast-In-Place Post-Tensioned Girder Details
	ADDITIONAL BRIDGE CONCRETE BARRIERS
RSP B11-79	Concrete Barrier Type 836 Details No. 1
RSP B11-80	Concrete Barrier Type 836 Details No. 2
	ROADSIDE SIGNS
RS1	Roadside Signs - Typical Installation Details No. 1
RS2	Roadside Signs - Wood Post - Typical Installation Details No. 2
RS4	Roadside Signs - Typical Installation Details No. 4

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CANCELED STANDARD PLANS LIST

The standard plan sheets listed below are canceled and not applicable to this contract.

Plan No.	Date Canceled	Plan No.	Date Canceled	Plan No.	Date Canceled
P31B	10-18-19				
P32A	10-18-19				
P32B	10-18-19				
C7A	10-19-18				
C7B	10-19-18				
C7C	10-19-18				
D89	10-18-19				
B11-55	04-19-19				
B11-56	10-19-18				
B11-57	10-19-18				
B11-60	04-16-21				
RSP B11-61	04-16-21				
S140	04-16-21				
S141	04-16-21				
S142	04-16-21				
ES-2C	10-19-18				
RSP ES-3A	04-16-21				
RSP ES-3I	10-16-20				
ES-3J	10-16-20				
ES-3L	10-16-20				
ES-7P	04-17-20				

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ORGANIZATION

Special provisions are under headings that correspond with the main-section headings of the *Standard Specifications*. A main-section heading is a heading shown in the table of contents of the *Standard Specifications*.

Each special provision begins with a revision clause that describes or introduces a revision to the *Standard Specifications* as revised by any revised standard specification.

Any paragraph added or deleted by a revision clause does not change the paragraph numbering of the *Standard Specifications* for any other reference to a paragraph of the *Standard Specifications*.

^^

DIVISION I GENERAL PROVISIONS

2 BIDDING

Add between the 1st and 2nd paragraphs of section 2-1.06B:

The Department makes the following supplemental project information available:

Supplemental Project Information

Means	Description
Included in the *Information Handout*	1. Foundation Report 2. Bridge Design Hydraulic Study Report 3. National Marine Fisheries Service Letter of Concurrence 4. United States Fish and Wildlife Service Biological Opinion 5. 401 Water Quality Certification 6. 404 United States Army Corps of Engineers Nationwide Permit 7. 1602 California Department of Fish and Wildlife Lake and Streambed Alteration Agreement 8. Central Valley Flood Protection Board Encroachment Permit 9. CEQA IS/MND 10. NEPA NES and CE
Available as specified in the *Standard Specifications*	Bridge As-Built Drawings
Included with the project plans	Log of Test Borings

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5 CONTROL OF WORK

Replace the 2nd and 3rd paragraphs of section 5-1.09A with:

Professionally facilitated project partnering is required.

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^^

6 CONTROL OF MATERIALS

Add to section 6-1.03 of the RSS:

6-1.03B Submittals

6-1.03B(1) General

Not Used

6-1.03B(2) Work Plan

For local material, such as rock, gravel, earth, structure backfill, pervious backfill, imported borrow, and culvert bedding, obtained from a (1) noncommercial source, or (2) source not regulated under California jurisdiction, submit a local material plan for each material at least 60 days before placing the material. The local material plan must include:

1. Certification signed by you and an engineer who is registered as a civil engineer in the State or a professional geologist licensed as a professional geologist by the State stating:

   > I am aware local material from a noncommercial source or a source not regulated under CA jurisdiction must be sampled and analyzed for pH and lead and may require sampling and analysis under section 6-1.03B(3) for other constituents of concern based on the land use history. I am aware that local material sources must not contain ADL at concentrations greater than 80 mg/kg total lead or equal to or greater than 5 mg/L soluble lead as determined by the Waste Extraction Test (WET) Procedures, 22 CA Code of Regs § 66261.24(a)(2) App II. I am aware that a maximum quantity of material may be excavated at the site based on the minimum number of samples taken before excavating at the site under section 6-1.03B(3).

2. Land use history of the local material location and surrounding property
3. Sampling protocol
4. Number of samples per volume of local material
5. QA and QC requirements and procedures
6. Qualifications of sampling personnel

7. Stockpile history
8. Name and address of the analytical laboratory that will perform the chemical analyses
9. Analyses that will be performed for lead and pH
10. Other analyses that will be performed for possible hazardous constituents based on:
    10.1. Source property history
    10.2. Land use adjacent to source property
    10.3. Constituents of concern in the ground water basin where the job site is located

The plan must be sealed and signed by an engineer who is registered as a civil engineer in the State or a professional geologist licensed as a professional geologist by the State.

If the plan requires revisions, the Engineer provides comments. Submit a revised plan within 7 days of receiving comments. Allow 7 days for the review.

6-1.03B(3) Analytical Test Results

At least 15 days before placing local material, submit analytical test results for each local material obtained from a noncommercial source or a source not regulated under CA jurisdiction. The analytical test results must include:

1. Certification signed by an engineer who is registered as a civil engineer in the State or a professional geologist licensed as a professional geologist by the State stating:

   > The analytical testing described in the local material plan has been performed. I performed a statistical analysis of the test results using the US EPA's ProUCL software with the applicable 95 percent upper confidence limit. I certify that the material from the local material source is suitable for unrestricted use at the job site, it has a pH above 5.0, does not contain soluble lead in concentrations equal to or greater than 5mg/l as determined by the Waste Extraction Test (WET) Procedures, 22 CA Code of Regs § 66261.24(a)(2) App II, does not contain lead in concentrations above 80 mg/kg total lead, is free from all other contaminants identified in the local material plan, and will comply with the job site's basin plan and water quality objectives of the RWQCB.

2. Chain of custody of samples
3. Analytical results no older than 1 year
4. Statistical analysis of the data using US EPA's ProUCL software with a 95 percent upper confidence limit
5. Comparison of sample results to hazardous waste concentration thresholds and the RWQCB's basin plan requirements and water quality objectives for the job site location

6-1.03B(4) Sample and Analysis

Sample and analyze local material from a (1) noncommercial source or (2) source not regulated under CA jurisdiction:

1. Before bringing the local material to the job site
2. As described in the local material plan
3. Under US EPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846)

The sample collection must be designed to generate a data set representative of the entire volume of proposed local material.

Before excavating at the (1) noncommercial material source or (2) a source not regulated under CA jurisdiction, collect the minimum number of samples and perform the minimum number of analytical tests for the corresponding maximum volume of local material as shown in the following table:

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Minimum Number of Samples and Analytical Tests for Local Material

Maximum volume of imported borrow (cu yd)	Minimum number of samples and analytical tests
< 5,000	8
5,000–10,000	12 for the first 5,000 cu yd plus 1 for each additional 1,000 cu yd or portion thereof
10,000–20,000	17 for the first 10,000 cu yd plus 1 for each additional 2,500 cu yd or portion thereof
20,000-40,000	21 for the first 20,000 cu yd plus 1 for each additional 5,000 cu yd or portion thereof
40,000–80,000	25 for the first 40,000 cu yd plus 1 for each additional 10,000 cu yd or portion thereof
> 80,000	29 for the first 80,000 cu yd plus 1 for each additional 20,000 cu yd or portion thereof

Do not collect composite samples or mix individual samples to form a composite sample.

Analyze the samples using the US EPA's ProUCL software with a 95 percent upper confidence limit. All chemical analysis must be performed by a laboratory certified by the SWRCB's Environmental Laboratory Accreditation Program (ELAP).

The analytical test results must demonstrate that the local material:

1. Is not a hazardous waste
2. Has a pH above 5.0
3. Has an average total lead concentration, based upon the 95 percent upper confidence limit, at or below 80 mg/kg
4. Is free of possible contaminants identified in the local material plan
5. Complies with the RWQCB's basin plan for the job site location
6 Complies with the RWQCB's water quality objectives for the job site location

6-1.03C Local Material Management

Do not place local material until authorized.

If the Engineer determines the appearance, odor, or texture of any delivered local material suggests possible contamination, sample and analyze the material. The sampling and analysis is change order work unless (1) hazardous waste is discovered or (2) the analytical test results indicate the material does not comply with section 6-1.03B(3).

Dispose of noncompliant local material at an appropriately permitted CA Class I, CA Class II or CA Class III facility. You are the generator of noncompliant local material.

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7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

Replace Section 7-1.02K(6)(j)(iii) of the RSS for Section 7-1.02K(6)(j)(iii) with:

7-1.02K(6)(j)(iii) Unregulated Earth Material Containing Lead

Section 7-1.02K(6)(j)(iii) includes specifications for handling, removing, and disposing of unregulated earth material containing lead. Management of this material exposes workers to health hazards that must be addressed in your lead compliance plan. This material contains average lead concentrations below 80 mg/kg total lead and below 5 mg/L soluble lead and is not regulated by DTSC as a hazardous substance or a hazardous waste. This material does not require disposal at a permitted landfill or solid waste disposal facility. The RWQCB has jurisdiction over reuse of this material at locations outside the job site limits.

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Manage regulated earth material containing lead under sections 14-11.08 and 14-11.09.

Unregulated earth material containing lead is present on the job site at the following locations:

Location	Element of work	Depth

Unregulated earth material exists throughout the job site.

Lead is typically found within the top 2 feet of material within the highway. Reuse all of the excavated material on the right-of-way. Haul and place the surplus excavated material on the right-of-way at _____.

Unregulated earth material containing lead has been detected to a depth of ___within the job site. Unregulated levels of lead found range from less than ___ to ___ mg/kg total lead with an average concentration of ___ mg/kg total lead as analyzed by EPA test method 6010 or EPA test method 7000 series and based upon a 95 percent upper confidence limit. Unregulated levels of lead on the job site have a predicted average soluble concentration of ___ mg/L as analyzed by the California Waste Extraction Test and based upon a 95 percent upper confidence limit.

Handle the material under all applicable laws, rules, and regulations, including those of the following agencies:

1. Cal/OSHA
2. CA RWQCB, Region_____
3. _____
4. _____

Manage the material as shown in the following table.

Earth Material Management

Location	Depth	Management requirements

If unregulated material is disposed of:

1. Submit at least 15 days before disposal, the form titled "Agreement between a Contractor Working on State Facilities and a Real Property Owner for Disposing Construction-related Material Suitable for Use on Residential Zoned Property" which discloses the lead concentration of the material to the receiving property owner and obtains authorization for disposal on the property. Give a copy of the signed form to the property owner.
2. You are responsible for any additional sampling and analysis required by the receiving property owner.

If you choose to dispose of unregulated material at a commercial landfill:

1. Transport it to a Class III or Class II landfill appropriately permitted to receive the material
2. You are responsible for identifying the appropriately permitted landfill to receive the material and for all associated trucking and disposal costs, including any additional sampling and analysis required by the receiving landfill

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8 PROSECUTION AND PROGRESS

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Replace the 1st paragraph of section 8-1.02C(1) with:

Section 8-1.02C does not apply. Comply with section 8-1.02D except the 1st paragraph.

^^

9 PAYMENT

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Replace section 12-5 of the RSS with:

12-5 DETOUR

12-5.01 GENERAL

12-5.01A General

Section 12-5 includes specifications for constructing, maintaining and removing temporary detour through construction work zones.

A temporary detour includes temporary bridge, temporary roadway farm access, drainage and irrigation features and facilities, temporary traffic control devices, temporary delineation and signs.

Temporary traffic control devices must include no less than 2 PCMS.

12-5.01B Submittals

Submit a work plan for a temporary pedestrian access route. The work plan must:

1. Show the roadway structural section to be provided
2. Show proposed pavement delineation and signs
3. Show all traffic control devices
4. Describe the activities, processes, equipment, and materials that will be used to provide the temporary detour
5. Be sealed and signed by an engineer who is registered as a civil engineer in the State

12-5.02 MATERIALS

Roadway surface must comply with Section 39 for HMAC.

Traffic control devices must comply with Section 12-3.

Temporary pavement delineation must comply with Section 12-6.

12-5.03 CONSTRUCTION

When detour is no longer necessary, restore the area to its previous condition or construct it to its planned condition.

12-5.04 PAYMENT

Not Used

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13 WATER POLLUTION CONTROL

Add to the end of section 13-1.01A:

The specifications in section 13 for water quality monitoring apply to the following work activities whenever they occur in water:

1. Temporary Construction Access
2. Grading and Excavation
3. Falsework Construction
4. Bridge Construction
5. Bridge Demolition
6. Placement of Rock Slope Protection
7. Any in-water work or activities which result in the creation of a visible plume in surface waters.

The receiving water for this project is Littlejohns Creek.

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Notify the Central Valley Water Board (CVWB) in writing, seven (7) days in advance of the start of any work within waters of the United States to the contact below:

Nicholas White, Water Resource control Engineer
Central Valley Regional Water Quality Control Board
11020 Sun Center Drive, Suite 200
Rancho Cordova, CA 95670-8114
Nicholas.White@waterboards.ca.gov
(916) 464-4856

A copy of the 401 Water Quality Certification from the CVWB shall be maintained with supporting documentation (project information sheet) at the project site during construction for review by site personnel (County employees, contractors and subcontractors) performing work on the project. Site personnel shall be adequately informed and trained regarding the conditions of the 401 Water Quality Certification for this project.

Add to the end of section 13-1.01C(4)(c):

Replace the 2nd and 3th paragraphs of section 13-1.01C(4)(d) with:

Submit a water quality annual report for each reporting period.

The report must be in an authorized format.

Replace the items in the list in the 3rd paragraph of section 13-1.01D(5)(b) with:

1. Water sampling shall be conducted upstream outside of the influence of the project.
2. Water sampling shall be conducted 300-feet downstream of the work area.

Replace the items in the list in the 4th paragraph of section 13-1.01D(5)(b) with:

1. Minimum sampling frequency for Turbidity and Settleable Material testing shall be every 4 hours during in-water work.
2. Continuous visible construction related pollutants throughout the construction period.

Add between the 4th and 5th paragraphs of section 13-1.01D(5)(b):

Test the receiving water under the test methods for the WQOs shown in the following table:

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Water Quality Objectives

Quality characteristic	Test method	Detection limit (min)	Requirement
Turbidity during activities for in-water work (NTU)	Field test with a calibrated portable instrument (Measured at downstream sampling location)	1	15 above natural background
Turbidity during activities excluding in-water work (NTU)	Field test with a calibrated portable instrument (Measured at downstream sampling location)	1	1. Where natural turbidity is less than 1 NTU, increases must not exceed 2 NTU. 2. Where natural turbidity is from 1 to 5 NTUs, increases must not exceed 1 NTU. 3. Where natural turbidity is from 5 to 50 NTUs, increases must not exceed 20 percent. 4. Where natural turbidity is from 50 to 100 NTUs, increases must not exceed 10 NTUs. 5. Where natural turbidity is greater than 100 NTUs, increases must not exceed 10 percent.
Settleable material (ml/L)	Observed	--	Greater than 0.1 ml/L
pH	Grab	1	1. pH in surface water to be depressed below 6.5 2. pH in surface water to be raised above 8.5

Replace the first sentence of the 5th paragraph of section 13-1.01D(5)(b) with:

If a WQO is exceeded, the water quality monitor must notify the Engineer by phone or electronic media immediately and:

Add to the end of section 13-3.01A:

This project's risk level is _2___.

Add between the 4th and 5th paragraphs of section 13-3.01C(2)(a):

The following RWQCBs will review the authorized SWPPP:

1. Central Valley Regional Water Quality Control Board

Replace the paragraphs in section 13-3.01D(2) with:

Discharges of stormwater from the job site must comply with the permit issued by the Central Valley RWQCB for National Pollutant Discharge Elimination System (NPDES) Permit for Storm Water

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Discharges Associated with Construction and Land Disturbance Activities (Order No. 2009-009-DWQ), Permit No. CAS000002. The Central Valley RWQCB permit governs stormwater and nonstormwater discharges resulting from construction activities at the job site. The Central Valley RWQCB permit may be viewed at https://www.waterboards.ca.gov/water_issues/programs/stormwater/constpermits.html.

Replace the last paragraph of section 13-4.03C(1) with:

_____

Replace *50* in the 4th paragraph of section 13-4.03D(5) with:

___

Replace *50* in the 1st and 2nd paragraphs of section 13-4.03E(8) with:

___

Add between the 1st and 2nd paragraphs of section 13-4.03G:

Dewatering must comply with the Central Valley Regional Water Quality Control Board 401 Water Quality Certification. For the permit, go to the Central Valley Regional Water Quality Control Board website (http://waterboards.ca.gov.centralvalley/).

Replace section 13-12 with:

13-12 TEMPORARY CREEK DIVERSION SYSTEMS

13-12.01 GENERAL

13-12.01A Summary

Section 13-12 includes specifications for constructing, maintaining, reconstructing, and removing temporary creek diversion system (TCDS), and restoring creek bed to original condition. The temporary diversion system is used to divert upstream water flows to allow construction in a dry or dewatered location.

13-12.01B Definitions

Not Used

13-12.01C Submittals

Submit a certificate of compliance for each constituent elements such as but not limited to:

1. Gravel gradation
2. Plastic sheeting
3. Pipe material
4. Pump system, if used

13-12.01C(1) Temporary Creek Diversion System Plan

Within 20 days of Contract approval, submit 3 copies of the Temporary Creek Diversion System Plan (TCDSP). The TCDSP must include:

1. Installation and removal process, including equipment, platforms for equipment, and access locations.
2. Anticipated flow rates.
3. Calculations supporting the sizing of piping, channels, pumps, or other conveyance by using FHWA HY-8 or other equivalent method. Calculate the discharge water flow rate and velocity anticipated

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where it discharges on any erodible surface, so its conveyance does not cause erosion within the project or at the discharge to the water body. Temporary culverts attached to banks, walls, or other locations must be designed to hold the full weight of the culvert at capacity and restrain the culvert for any expected hydraulic forces.

4. Plans showing locations of diversion, including layouts, cross sections, and elevations.
5. Materials proposed for use, including MSDS if applicable.
6. Operation and maintenance procedures for the TCDS.
7. Restoration plans showing before and after conditions, including photos of existing conditions for areas disturbed during the installation, operation, and removal of the TCDS.
8. Monitoring and reporting plan to ensure applicable water quality objectives are met. This includes schedule of work including Temporary BMP implementation as part of the Construction Site BMP strategy, and SWPPP or WPCP as applicable. Use with section 13-3.01A.
9. Details of the pumping system, if used, including power source, debris handling, fish screens, and monitoring requirements.
10. Fish passage plan, following the Caltrans Fish Passage Design for Road Crossings, CA Department of Fish and Wildlife (CDFW), CA Salmonid Stream Habitat Restoration Manual, and National Marine Fisheries Service (NMFS), Guidelines for Salmonid Passage at Stream Crossings, as required by the applicable PLACs.
11 The TCDS design must demonstrate how it will comply with section 13-12.03A, water tightness, and prevent seepage.
12. Contingency plan to remove workers, equipment, materials, fuels, and any other work items that will cause pollution or violation of PLACs during a rain event out of the flow area. Develop the contingency plan for when a 12-inch freeboard cannot be maintained and overtopping of the coffer dams may occur.

If revisions are required, the Engineer notifies you of the date when the review stopped and provides comments. Submit a revised TCDSP within 15 days of receiving the comments. The Department's review resumes when a complete TCDSP has been resubmitted.

Submit an electronic copy on a read-only CD, DVD, or other Engineer-authorized data storage device and 4 printed copies of the authorized TCDSP.

If the RWQCB or other regulatory agency requires review of the authorized TCDSP, the Engineer submits it to the RWQCB for review and comment. If the Engineer orders changes to the TCDSP based on the RWQCB's comments, submit a revised TCDSP within 10 days.

All submittals which include plans, specifications, and calculations must be sealed and signed by a civil engineer registered in the State.

13-12.01D Quality Assurance

Not Used

13-12.02 MATERIALS

13-12.02A Gravel

Gravel must:

1. Be river run gravel obtained from a river or creek bed with gradation of 100 percent passing a 3/4 inch sieve and 0% passing a 3/8 inch sieve
2. Be clean, hard, sound, durable, uniform in quality, and free of any detrimental quantity of soft, thin, elongated or laminated pieces, disintegrated material, organic matter, or other deleterious substances
3. Be composed entirely of particles that have no more than 1 fractured face
4. Have a cleanliness value of at least 85, as determined by California Test 227

13-12.02B Impermeable Plastic Membrane

Impermeable plastic membrane must be:

1. Single ply, commercial quality, polyethylene with a minimum thickness of 10 mils complying with ASTM D2103. You must use stronger plastic membrane if required as part of design to resist hydraulic forces.
2. Free of holes, punctures, tears or other defects that compromise the impermeability of the material.

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3. Suitable for use as an impermeable membrane.
4. Resistant to UV light, retaining a minimum grab breaking load of 70 percent after 500 hours under ASTM D4355.

13-12.02C Gravel-Filled Bags

Gravel-filled bags must comply with section 13-5.02G.

The 2nd paragraph of section 13-5.02G does not apply.

13-12.02D Plastic Pipes

Plastic pipe must comply with section 61-3.01 and must:

1. Be clean, uncoated, in good condition free of rust, paint oil dirt or other residues that could potentially contribute to water pollution
2. Be adequately supported for planned loads
3. Use watertight joints under section 61-2.01.
4 Be made of a material or combination of materials that are suitable for clean water and which do not contain banned, hazardous or unlawful substances
5. For temporary pipes not reused on the project you may use the following materials:
    5.1. PVC closed-profile wall pipe must comply with ASTM F1803
    5.2. PVC solid wall pipe must comply with ASTM D3034, ASTM F679, AWWA C900, AWWA C905, or ASTM D2241 and cell class 12454 defined by ASTM D1784
    5.3. HDPE solid wall pipe must comply with AASHTO M 326 and ASTM F714
    5.4. Polyethylene large-diameter-profile wall sewer and drain pipe must comply with ASTM F894

13-12.02E Rock

Rock layer must comply with the table titled *Rock Gradation for 7-inch-thick Layer* in section 72-4.02.

13-12.02F Pumping System

Pumping system must:

1. Comply with section 74-2.02B
2. Be equipped with secondary containment
3. Be free of fuel and oil leaks
4. Meet intake screen regulatory requirements

13-12.02G Seepage Pumping System

If seepage occurs in the dewatered work area, the water must be removed by sump pumps as part of the TCDS.

Seepage pumping system must:

1. Comply with section 74-2.02B
2. Ensure discharge water conform with PLACs or is treated on site
3. Be free of fuel and oil leaks

13-12.02H Discharge Water Energy Dissipation and Erosion Control

Discharge water from pumps, pipes, ditches, or other conveyances must have BMPs to dissipate the flows and velocity of water discharged from the temporary diversion system if erosion would otherwise occur.

Energy dissipation measures:

1. May be plastic sheeting, flared end sections, rubber matting, or other materials appropriate for the design hydraulics
2. Must be anchored to prevent movement by expected flows
3. Must be removed when the TCDS is removed

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13-12.03 CONSTRUCTION

13-12.03A General

Construction, use and removal of the TCDS is restricted to the time period from June 1 to _October 31. If the work cannot be completed during the initial restricted time period, remove TCDS, restore the creek to original flow condition, and reconstruct the TCDS after June 1 of the following year. No work is allowed within the stream except during the restricted time period.

Do not use motorized equipment or vehicles in areas of flowing or standing water for the construction or removal of the TCDS in compliance with section 13-4.03.

Remove vegetation to ground level and clear away debris.

Place temporary or permanent fill as allowed by PLACs.

Place rock at outlet of diversion pipe under section 72-4.03, except motorized vehicles and equipment must not be used in areas of flowing or standing water.

Do not construct or reconstruct TCDS if the 72-hour forecasts predict a 50 percent or greater chance of rain in the project area.

Stop allwork and remove all material and equipment from the creek between upstream and downstream cofferdams if the 72-hour forecasts predict a 50 percent or greater chance of rain in the project area and the predicted rainfall is estimated to produce a flow rate exceeding the design capacity of the TCDS.

If the required freeboard cannot be maintained and overtopping may occur, implement contingency plan to remove all workers, equipment, and potential sources of pollution from the dry working area of the creek bed.

The TCDS must be constructed within the temporary impact footprint as described in the environmental commitments.

Lap and join joints between the edges of impermeable plastic membrane with commercial-quality waterproof tape with minimum 4-inch lapping at the edges.

Seal openings or penetrations through the impermeable plastic membrane with commercial quality waterproof tape.

The TCDS must be water tight to keep the work area dry for construction and prevent the creation of pollutants. Maintain all portions of the TCDS and fix leaks as soon as they are discovered.

Contact water agencies that discharge to the construction area to ensure that unexpected water is not discharged during construction which could compromise the TCDS.

13-12.03B Maintenance

Maintain the TCDS to provide a minimum freeboard of 12 inches between the water surface and the impermeable top of the cofferdams.

Do not discharge runoff from existing or proposed drainage systems into the dry work area between the cofferdams. Runoff from these systems may be connected to the diversion pipe or conveyed by pipes downstream of the cofferdam.

Prevent leaks in the TCDS. Provide seepage pumps as necessary and keep the work area dry to prevent the creation of sediment-laden water.

Repair holes, rips and voids in the impermeable plastic membrane with commercial-quality waterproof tape. Replace impermeable plastic membrane when patches or repairs compromise the impermeability of the material.

Repair TCDS within 24 hours after the damage occurs.

Prevent debris from entering the TCDS and receiving water.

Remove and immediately replace gravel, gravel-filled bags, impermeable plastic membrane, or plastic pipes contaminated by construction activities.

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Remove sediment deposits and debris from the TCDS as needed. If removed sediment is deposited within project limits, it must be stabilized and not subject to erosion by wind or water, under sections 19-1.01 and 19-2.03 B.

13-12.03C Removal

When no longer required, remove all components of TCDS. Return the creek bed and banks to the original condition.

Do not excavate the native creek material. Backfill ground disturbance, including holes and depressions caused by the installation and removal of the TCDS with gravel. Maintain the original line and grade of the creek bed.

13-12.04 PAYMENT

Not Used

^^^

Add to section 14-6.03A:

Replace the 2nd paragraph of section 14-6.03B with:

The Department anticipates nesting or attempted nesting by migratory and nongame birds from February 1 to September 15.

Replace item 1 in the list in the 6th paragraph of section 14-6.03B with:

1. Stop all work within a 100-foot radius of the discovery except as shown in the following table:

Species	Protective radius (feet)
Swainson's Hawk	600

list in the 2nd paragraph of section 14-6.03D(1) with:

6. Develop fish exclusion plan
7 Prepare, conduct and monitor Mandatory Environmental Awareness Training under 14-6.03D(3).

Replace the 2nd and 3rd paragraphs of section 14-6.03D(1) with:

The Contractor-supplied biologist must implement monitoring and reporting requirements described in the natural resources protection plan.

Add to section 14-6.03D(1):

A Contractor-supplied biologist must be qualified by California Department of Fish and Wildlife and the U.S. Fish and Wildlife Service prior to the commencement of work.

Survey the job site for regulated species and submit a preconstruction survey report before starting work as required by PLACs.

The preconstruction survey report must include one of the following:

1. Detailed observations and locations where regulated species were observed
2. Statement that no regulated species were observed

Submit an initial monitoring report as an informational submittal after starting ground-disturbing activities as required by PLACs.

Submit a biological resource incident report as required by PLACs.

The incident report must include:

1. Description of any take of regulated species or any violation of a biological resource PLAC
2. Species name and number taken
3. Details of required notifications with contact information
4. Corrective actions proposed or taken
5. Disposition of taken species

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Submit a final monitoring report after completion of the project as required by PLACs. If the report requires revisions, the Department provides comments. Submit a revised report within 7 days of receiving comments. The final monitoring report must be a cumulative report including:

1. Start and end dates of construction
2. Project impacts on the regulated species
3. Species protection measures and implementation details
4. Incidental take details, including species name, number taken, people contacted, contact information, and disposition of taken species
5. Assessment of the effectiveness of the species protection measures in mitigating project impacts
6. Recommendations for improving species protection measures

Replace *Reserved in* section 14-6.03D(3) with:

Prepare and present a biological resource information program to familiarize personnel with regulated species and habitats, related laws and regulations, and species protection measures and protocols.

The biological resource information program must include:

1. Identification of the job site, ESAs, and species protection areas
2. Description of the regulated species and its general ecology
3. Description of habitats used by the regulated species and their locations
4. Requirements for protecting regulated species
5. Definition and consequences of take of regulated species
6. Response plan for encounters with the regulated species or a species that looks like one
7. Permit requirements for touching or moving a regulated species
8. Requirements for species protection
9. Description of avoidance and minimization measures
10. Handout materials about the regulated species, its habitats, and species protection measures

A Contractor-supplied biologist must develop the program and present the biological resource training.

Submit an outline of your program within 7 days after Contract approval. If the submittal is rejected, submit a revised outline within 7 days of receiving the rejection.

Notify the Engineer at least 7 days before the 1st training session. Submit an attendance list with the printed and signed name of each attendee within 2 business days after each session. Submit a separate attendance list for each subsequent training session for new personnel.

Personnel who must complete biological resource training include laborers, tradesmen, material suppliers, equipment maintenance staff, supervisors, foremen, office staff, food vendors, and other workers who stay at the job site longer than 30 minutes.

Provide hard-hat stickers to personnel who have completed the biological resource information training. The sticker must show the following information:

1. Title of training
2. Date of completion

Provide a handout that describes the regulated species, their habitats, and protection measures as listed in species protection or in PLACs.

Distribute the handout to each attendee. Display and maintain the handout at all construction field offices and on all information boards.

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Replace section 14-11.08 with:

14-11.08 REGULATED MATERIAL CONTAINING AERIALLY DEPOSITED LEAD

14-11.08A General

Section 14-11.08 includes specifications for management of regulated material containing ADL Management of the material includes:

1. Excavating
2. Loading and unloading containers or trucks
3. Stockpiling
4. Transporting
5. Placing
6. Disposal

Manage regulated material containing ADL under the rules and regulations of the following agencies:

1. US Department of Transportation
2. US EPA
3. California Environmental Protection Agency
4. CDPH
5. DTSC
6. Cal/OSHA
7. California Department of Recycling and Recovery
8. California Air Resources Board
9. RWQCB, Region ___, _____
10. _____AQMD

The Department entered into agreement Docket No. ESPO-SMA 15/16-001 Soil Management Agreement for Aerially Deposited Lead-Contaminated Soils with the DTSC (ADL Agreement) regarding the management of regulated material containing ADL. As the responsible entity and the generator of waste, only the Department determines material classification. For the ADL agreement, go to the Caltrans Hazardous Waste Management website.

Regulated material containing ADL is present within the project limits and the ADL Agreement applies. Management of regulated material containing ADL exposes workers to health hazards that must be addressed in your lead compliance plan under section 7-1.02K(6)(j)(ii).

14-11.08B Definitions

average ADL concentration: Average ADL concentration calculated using the 95 percent upper confidence limit.

commercial/industrial property: Property that is not and will not be used for any type of housing, including but not limited to, apartment, motel, hotel, farm, ranch, or any other type of property, including but not limited to, daycare, park, school, hospital, university, which could allow occupants to reside on the property now or in the future or would lead to daily, repeated, long term exposure to the material.

regulated material: ADL-contaminated material that has average ADL concentrations over 80 mg/kg total lead or equal to or greater than 5 mg/L soluble lead tested using the California Waste Extraction

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Test (CA-WET) or equal to or greater than 5 mg/L soluble lead tested using the Toxicity Characteristic Leaching Procedure (TCLP).

Type Com: Regulated material that the Department may designate to be reused on the highway or disposed on a commercial/industrial property or at an appropriately permitted California Class II or California class III disposal facility. Type Com material has average ADL concentrations less than 5.0 mg/L soluble lead and more than 80 mg/kg total lead but not exceeding 320 mg/kg total lead. The soluble lead is tested using the CA-WET.

Type R-1: Regulated material that may be reused on the job site if placed at least 5 feet above the maximum historical elevation of the water table and covered with at least 1 foot of Type Com or unregulated material with a pH greater than 5 or pavement.

Type R-2: Regulated material that may be reused on the job site if placed at least 5 feet above the maximum historical elevation of the water table and covered with pavement.

Type Z-0: Regulated material that must be disposed of at an appropriately permitted California Class II or California Class III disposal facility. Type Z-0 has average ADL concentrations:

1. Greater than 320 mg/kg total lead but less than 1,000 mg/kg total lead
2. Less than 5.0 mg/L soluble lead as tested using the CA-WET

Type Z-2: Regulated material that is a Department-generated California hazardous waste that must be disposed of at an appropriately permitted California Class I disposal facility. Type Z-2 material has average ADL concentrations greater than or equal to 1,000 mg/kg total lead or 5.0 mg/L soluble lead as tested using the CA-WET.

Type Z-3: Regulated material that is a Department-generated federal hazardous waste that must be disposed of at a California Class I disposal facility. This material has average ADL concentrations equal to or greater than 5.0 mg/L soluble lead as tested using the TCLP.

14-11.08C Site Conditions

Concentration data and sample location maps for regulated material are included in the *Information Handout*.

Type Com material exists from the surface to below the existing grade as shown and listed in the following table:

Location	Elements of work	Depth
Sta ____+__ to Sta ____+__ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____
PM___ to PM____ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____

Type R-1 material exists from the surface to below the existing grade as shown and listed in the following table:

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Location	Elements of work	Depth
Sta ____+__ to Sta ____+__ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____
PM___ to PM____ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____

Type R-2 material exists from the surface to below the existing grade as shown and listed in the following table:

Location	Elements of work	Depth
Sta ____+__ to Sta ____+__ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____
PM___ to PM____ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____

Type Z-0 material exists from the surface to below the existing grade as shown and listed in the following table:

Location	Elements of work	Depth
Sta ____+__ to Sta ____+__ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____
PM___ to PM____ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____

Type Z-2 material exists from the surface to below the existing grade as shown and listed in the following table:

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Location	Elements of work	Depth
Sta ____+__ to Sta ____+__ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____
PM___ to PM____ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____

Type Z-3 material exists from the surface to below the existing grade as shown and listed in the following table:

Location	Elements of work	Depth
Sta ____+__ to Sta ____+__ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____
PM___ to PM____ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____

14-11.08D Submittals

14-11.08D(1) General

Not Used

14-11.08D(2) Perimeter Air Monitoring Requirements

Include perimeter air monitoring under section 14-11.08F as part of your lead compliance plan. Include:

1. Location and type of equipment
2. Sampling frequency
3. Name and address of the laboratory that will perform the analyses

Not Used

14-11.08D(3) Excavation and Transportation Plan

Within 15 days of Contract approval, submit 3 copies of an excavation and transportation plan for regulated material. Allow __ days for review. If the plan requires revisions, the Department provides comments. Submit a revised plan within 7 days of receiving comments. The Engineer may allow construction to proceed while minor revisions or amendments are being completed.

The excavation and transportation plan must comply with:

1. DTSC regulations
2. ADL Agreement
3. Cal/OSHA regulations

The excavation and transportation plan must include:

1. Procedures for managing the material.
2. Excavation schedule by location and date.
3. Locations for temporary stockpiles.
4. Survey methods for burial locations for Type R-1 or Type R-2 material.

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5. Type R-1 material soil cover source area.
6. Dust control measures.
7. Air monitoring locations.
8. Transportation equipment and routes.
9. Method for preventing spills and tracked material onto public roads.
10. Truck waiting and staging areas.
11. If Type Com material will be disposed of, name and contact information for property owners accepting Type Com material and addresses of property where Type Com material will be disposed of as listed on the forms titled "Agreement between a Contractor Working on State Facilities and a Real Property Owner for Disposing Construction Related Material on Commercial Zoned Property Owner's Property" or the name and address of the California Class II or California Class III disposal facility accepting it.
12. Name and address of the California Class II or California Class III disposal facility where Type Z-0 material will be disposed of.
13. Name and address of the California Class I disposal facility where hazardous waste will be disposed of.14. Example of a bill of lading to be carried by trucks transporting Type R-1, Type R-2, Type Com, or Type Z-0 material on public roads outside the controlled access construction zone. The bill of lading must include:
    14.1. US Department of Transportation description, including shipping name
    14.2. Hazard class
    14.3. Identification number
    14.4. Handling codes
    14.5. Quantity of material
    14.6. Volume of material
15. Spill contingency plan for regulated material containing ADL.
16. Copies of the contract plan sheets where the location and depth of the existing regulated material are shown, as an attachment.
17. Copies of the contract plan sheets where the location and depth of Type R-1 or Type R-2 material burial locations are shown, as an attachment.

14-11.08D(4) Burial Location Report

Within 5 business days of completing placement of Type R-1 or Type R-2 material at a burial location, submit a report for that burial location that includes:

1. "Burial Location of Soil Containing Aerially Deposited Lead (Topographic Survey)" form
2. Electronic geospatial vector survey data shapefiles of the top and bottom of the burial location with polygon feature classes containing the location and attributes of the burial site. Provide polygon feature classes in a shapefile that is comprised of a minimum of four files with the extensions of .shp, .shx, .dbf and .prj. Include the following attribute data:
    2.1. Contractor
    2.2. Contract number
    2.3. District
    2.4. County
    2.5. Route
    2.6. PM Start
    2.7. PM End
    2.8. Project EA
    2.9. Project name
    2.10. Burial location number

Submit the report to the Engineer and to:

ADL@dot.ca.gov

The Engineer notifies you of acceptance or rejection of the burial location report within 5 business days of receipt. If the report is rejected, you have 5 business days to submit a corrected report. Each burial location report prepared for a survey required under section 14-11.08I, including electronic files, is considered a submittal required by the contract. Failure to submit more than one submittal required by section 14-11.08I is considered multiple performance failures under section 9-1.16E(3).

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Not Used

14-11.08D(5) Bill of Lading

Submit copies of the bills of lading used as an informational submittal upon placement of Type Com, Type R-1, or Type R-2 material in its final location.

Submit copies of the bills of lading used to transport Type Z-0 or surplus Type Com material for disposal within 5 business days of disposal.

Not Used

14-11.08D(6) Disposal Documentation

Submit documentation from the receiving property owner or disposal facility confirming appropriate disposal within 5 business days of transporting Type Com material from the job site.

Submit documentation from the receiving disposal facility confirming appropriate disposal within 5 business days of transporting Type Z-0, Type Z-2, or Type Z-3 material from the job site.

Not Used

14-11.08E Dust Control

Prevent visible dust migration under section 14-11.04 during management of regulated material.

14-11.08F Air Monitoring

Conduct perimeter air monitoring at upwind and downwind locations as detailed in the authorized lead compliance plan. Monitor using personal air samplers by the National Institute of Safety and Health Method 7082. Your sampling procedures must achieve a detection limit of 2.6 µg/m^3 of air per day. Under the direction of a CIH, monitor the air daily while clearing and grubbing and performing earthwork activities. Analyze a single representative daily sample for lead and provide results within 24 hours. Analyses must be performed by a laboratory accredited by the Environmental Lead Laboratory-Accreditation Program of the American Industrial Hygiene Association.

Daily lead concentrations must not exceed 2.6 µg/m^3 of air per day. If a daily concentration exceeds 2.6 µg/m^3 of air per day, stop work and modify the work to prevent release of lead. The air monitoring data must be reviewed and signed by the CIH.

Not Used

14-11.08G Stockpiling

Stockpile Type Com, Type R-1, and Type R-2, material under section 14-11.05 for no more than 90 days. The Department does not pay for stockpiling unless stockpiling is ordered.

Do not stockpile Type Com material. Excavate and load Type Com material directly from the excavation to containers or trucks for transportation to the placement location. Excavate and load surplus Type Com material directly from the excavation to containers or trucks for transportation to the disposal site.

Do not stockpile Type R-1 or Type R-2 material. Excavate and load Type R-1 and Type R-2 material directly from the excavation to containers or trucks for transportation to the burial location.

Do not stockpile Type Z-0, Type Z-2, or Type Z-3 material. Transfer Type Z-0, Type Z-2, and Type Z-3 material directly from the excavation to containers or trucks for transportation to the disposal facility.

14-11.08H Placement

Place Type Com, Type R-1 and Type R-2 material as shown.

Cover for Type R-1 must comply with section 6-1.03B.

Not Used

14-11.08I Surveying Burial Site

Topographically survey the location of the bottom and top of each area where you bury Type R-1 or Type R-2 material (burial locations). Topographic surveys must be performed by or under the direction of one of the following:

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1. Land surveyor licensed under the Bus & Prof Code Ch 15, starting with § 8700
2. Civil engineer licensed before January 1, 1982 under the Bus & Prof Code Ch 7 starting with § 6700

At a minimum, topographic surveys consist of collecting northing, easting, and elevation information of survey points along cross sections lines of the Type R-1 or Type R-2 material burial locations, where the cross section line intervals are 25 feet, at a maximum, with a minimum of 5 cross sections surveyed per burial location. Collect a survey point at each change in terrain elevation with a minimum of 5 survey points per cross section line. The same cross section lines are used to survey the ground surface just before placing Type R-1 or R-2 material and used to survey the finished grade immediately after the placement of the Type R-1 or Type R-2 material.

Report each burial location in California state plane coordinates in US survey feet within the appropriate zone of the California Coordinate System of 1983 (CCS83) and in latitude and longitude. Reference horizontal positions to CCS83. Use epoch _____. Perform the survey to a horizontal accuracy of 0.3 ft as described in Figure 5.1A of the Caltrans Surveys Manual. Reference each horizontal position to a roadway horizontal alignment, indicating a station and offset. The elevation of points identifying the burial location must locate the bottom and top of Type R-1 or R-2 material to an accuracy of 0.3 ft vertically. Reference elevations of the bottom and top of Type R-1 or R-2 material to the project vertical datum. Report accuracy of spatial data in US Survey feet under Caltrans Orders of Accuracy in the Caltrans Surveys Manual Chapter 5.

Not Used

14-11.08J Material Transportation

Before traveling on public roads outside the controlled access construction zone, remove loose and extraneous regulated material from outside surfaces of containers and the cargo areas of trucks. Place tarpaulins or other cover over the cargo as described in the authorized excavation and transportation plan. You are responsible for costs due to spillage of regulated material during transport. Transportation routes for Type R-1 or Type R-2 material must only include the highway within the job site limits.

Use a bill of lading while transporting excavated Type Com, Type R-1, Type R-2, or Type Z-0 material on public roads outside of the controlled access construction zone.

Transport excavated Type Z-2 and Type Z-3 material using:

1. Hazardous waste manifest
2. Hazardous waste transporter with a current DTSC registration certificate and CA Highway Patrol (CHP) Basic Inspection of Terminals (BIT) Program documentation with a satisfactory rating.

14-11.08K Disposal

14-11.08K(1) General

Laws and regulations that govern disposal of regulated material include:

1. Health & Safety Code § 25100 et seq
2. 22 CA Code of Regs § 66250 et seq
3. 8 CA Code of Regs

The Department does not pay for additional sampling and analysis required by disposal facilities.

14-11.08K(2) Type Com Material

Dispose of _____ Type Com material.

Submit at least 15 days before disposal, the form titled "Agreement between a Contractor Working on State Facilities and a Real Property Owner for Disposing Construction Related Material on Commercial Zoned Property Owner's Property" which discloses the lead concentration of the material to the receiving property owner and obtains authorization for disposal on the property. Give a copy of the signed form to the property owner. You are responsible for any additional sampling and analysis required by the receiving property owner.

If you choose to dispose of Type Com material at a commercial landfill:

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1. Transport it to a Class III or Class II landfill appropriately permitted to receive the material
2. You are responsible for identifying the appropriately permitted landfill to receive the material and for all associated trucking and disposal costs, including any additional sampling and analysis required by the receiving landfill

Not Used

Replace section 14-11.09 with:

14-11.09 MINIMAL DISTURBANCE OF REGULATED MATERIAL CONTAINING AERIALLY DEPOSITED LEAD

14-11.09A General

Section 14-11.09 includes specifications for handling and managing regulated material containing ADL when there is a minimal disturbance. Regulated material containing ADL has average ADL concentrations over 80 mg/kg total lead or equal to or greater than 5 mg/L soluble lead tested using the California Waste Extraction Test or equal to or greater than 5 mg/L soluble lead tested using the toxicity characteristic leaching procedure.

Compliance with 22 CA Code of Regs is not required where there is minimal disturbance of regulated material containing ADL.

Management of regulated material containing ADL exposes workers to health hazards that must be addressed in your lead compliance plan under section 7-1.02K(6)(j)(ii).

Handle regulated material containing ADL under the rules and regulations of the following agencies:

1. Cal/OSHA
2. RWQCB, Region __— _____
3. _____ Air Quality Management District

Regulated material containing ADL is typically found within the top 2 feet of material in ADL-impacted areas of the job site. Concentrations of ADL found in the area of minimal disturbance range from ____ to ____ mg/kg total lead with an average concentration of ____ mg/kg total lead using a 95 percent upper confidence limit. Lead concentrations were analyzed by US EPA Method 6010 or US EPA Method 7000 series.

Minimal disturbance of regulated material containing ADL occurs where the following work activities are conducted:

1.
2.
3.

Minimal disturbance of regulated material containing ADL occurs at the following locations:

Location	Work activity	Depth

14-11.09B Material Management

Handling of regulated material containing ADL must result in no visible dust migration. Use dust control measures. A means of controlling dust must be available at all times.

Separate material from vegetation. The resulting soil must remain on the job site.

Surplus material from the areas with regulated material containing ADL must remain in the area of disturbance. Do not dispose of surplus material outside the highway.

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Add to the 1st paragraph in section 14-11.13A:

The existing paint system on bridge no. 29C0038 will be disturbed as part of the work activities. The paint system contains lead.

Replace section 14-11.13B(3) with:

14-11.13B(3) Air Monitoring Reports

Air monitoring reports, including test results for samples taken after corrective action, must be prepared by the CIH and submitted:

1. Orally within 48 hours after sampling
2. As an informational submittal within 5 days after sampling

Air monitoring reports must include:

1. Date and location of sample collection, sample number, Contract number, bridge number, name of the structure, and District-County-Route-Post Mile
2. Name and address of the certified laboratory that performed the analyses
3. Chain of custody documentation
4. List of emission control measures in place when air samples were taken
5. Air sample results compared to the appropriate permissible exposure limit (PEL)
6. Corrective action recommended by the CIH to ensure exposure to airborne metals outside containment systems and work areas is within specified limits
7. Signature of the CIH who reviewed the data and made recommendations

Replace section 14-11.13B(4) with:

14-11.13B(4) Soil Sampling Results for Debris Containment Verification

Submit test results of soil analyses verifying debris containment, including results for soil samples taken after corrective action:

1. Orally within 48 hours after sampling
2. Within 5 days after sampling

Soil sampling results must include:

1. Date and location of sample collection, sample number, Contract number, bridge number, name of the structure, and District-County-Route-Post Mile
2. Concentrations of heavy metals expressed in mg/kg and mg/L
3. Name and address of the certified laboratory that performed the analyses
4. Chain-of-custody documentation

Replace section 14-11.13D with:

14-11.13D Work Area Monitoring

14-11.13D(1) General

Monitor the ambient air and soil in and around the work area to verify the effectiveness of the containment system. Work area monitoring includes:

1. Collecting, analyzing, and reporting air and soil test results
2. Recommending corrective action whenever specified air or soil concentrations are exceeded

Collect air and soil samples at locations designated by the Engineer.

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14-11.13D(2) Air Monitoring

Air monitoring must be performed under the direction of a CIH.

Collect and analyze air samples to detect lead under the NIOSH Method 7082 using a detection limit of at least 0.05 µg/m^3. Collect and analyze air samples to detect other metals under NIOSH Method 7300 using a detection limit of at least 1 percent of the appropriate PEL specified by Cal/OSHA. You may use alternative methods of sampling and analysis with equivalent detection limits.

Concentrations of airborne metals outside containment systems and work areas must not exceed any of the following:

1. Average of 1.5 µg/m^3 of air per day and 0.15 µg/m^3 per day on a rolling 90-day basis. Calculate the average daily concentrations based on accumulated monitoring data and projections based on monitoring trends for the next 90 days or to the end of the work subject to the lead compliance plan if less than the specified averaging period.
2. 10 percent of the action level specified for lead by 8 CA Code of Regs §1532.1.
3. 10 percent of the appropriate PELs specified for other metals by Cal/OSHA.

Collect air samples daily during work activities that disturb the existing paint system. Air samples must be analyzed within 48 hours by a facility accredited by the Environmental Lead Laboratory Accreditation Program of the American Industrial Hygiene Association. If concentrations of airborne metals exceed allowable levels, modify the containment system or work activities to prevent further release of metals. If the CIH recommends corrective action, collect and analyze additional samples after implementing the corrective action unless ordered otherwise.

Add to the beginning of section 14-11.13G(2):

After the Engineer accepts the waste characterization test results, dispose of the debris:

1. Within 30 days after accumulating 220 lb of debris
2. At a DTSC-permitted Class I facility located in California

Make all arrangements with the operator of the disposal facility.

If less than 220 lb of hazardous waste is generated in total, dispose of it within 30 days after the start of the accumulation of the debris.

Replace the RSS for section 14-11.14 with:

14-11.14 TREATED WOOD WASTE

14-11.14A General

Section 14-11.14 includes specifications for handling, storing, transporting, and disposing of treated wood waste. Treated wood waste is a Department-generated hazardous waste. Manage treated wood waste under section 14-11.07.

Wood removed from guardrail is treated wood waste.

14-11.14B Storage of Treated Wood Waste

Until disposal, store treated wood waste in metal containers approved by the US Department of Transportation for the transportation and temporary storage of hazardous waste.

14-11.14C Transport and Disposal of Treated Wood Waste

Transport and dispose of treated wood waste. Dispose of treated wood waste at a California disposal site operating under a DTSC permit.

If less than 220 lb of hazardous waste is generated in total, dispose of it within 5 days after the start of the accumulation of the debris.

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15 EXISTING FACILITIES

Add to the end of the 1st paragraph of section 15-1.03B:

except for the concrete abutments and piles, and the intermediate pier wall. Remove abutment concrete and existing piles to the bottom of the proposed abutment footings. Remove the pier wall concrete down to the top of the existing pier wall footing.

Delete the 7th paragraph of section 15-1.03B.

Delete item 2 in the list in the 7th paragraph of section 15-1.03B.

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16 TEMPORARY FACILITIES

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1. Constructing an access road as shown.
2. Clearing and grubbing the material site.
3. Selecting material within the source.
4. Screening and wasting from 30 to 60 percent of the finer material.
5. Washing materials so that the imported borrow complies with the sand equivalent requirements.

Add to section 19-7.02C:

Imported borrow placed within 4 feet of the finished grade must have an R-value of at least 15.

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20 LANDSCAPE

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21 EROSION CONTROL

Replace section 21-2.02K with:

21-2.02K Compost

Compost must be derived from one or a combination of the following types of materials:

1. Green material consisting of chipped, shredded, or ground vegetation or clean, processed, recycled wood products
2. Biosolids
3. Manure
4. Mixed food waste

Compost must not be derived from mixed municipal solid waste and must not contain paint, petroleum products, pesticides, or other chemical residues harmful to plant or animal life. Metal concentrations in compost must not exceed the maximum listed under 14 CA Code of Regs § 17868.2.

Process compost materials under 14 CA Code of Regs § 17868.3.

The particle size must comply with the requirements shown in the following table:

Compost Gradation

Quality characteristic	Test method[a]	Requirement	
		Min	Max
Gradation Fine:(dry weight % passing) 1-inch sieve 3/8-inch sieve	TMECC 02.02-B	 100 95	 -- --
Gradation Medium:(dry weight % passing) 2-inch sieve 3/8-inch sieve	TMECC 02.02-B	 95 40	 -- 55
Gradation Coarse:(dry weight % passing) 3-inch sieve 3/8-inch sieve	TMECC 02.02-B	 95 25	 -- 35

[a] TMECC refers to *Test Methods for the Examination of Composting and Compost*, published by the United States Department of Agriculture and the United States Compost Council (USCC).

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The quality characteristics of compost must have the values shown in the following table:

Compost

Quality characteristic	Test method[a]	Requirement	
		Fine	Medium/Coarse
pH	TMECC 04.11-A	6–8.5	6-8.5
Soluble salts (dS/m)	TMECC 04.10-A	0–10	0-10
Moisture content (% wet weight)	TMECC 03.09-A	25–60	25-60
Organic matter content (% dry weight)	TMECC 05.07-A	30–70	30-100
Maturity (seed emergence) (% relative to positive control)	TMECC 05.05-A	80 or above	80 or above
Maturity (seedling vigor) (% relative to positive control)	TMECC 05.05-A	80 or above	80 or above
Stability (mg CO_2-C/g OM per day)	TMECC 05.08-B	5 or below	8 or below
Pathogen Salmonella (most probable number per 4 grams dry weight basis)	TMECC 07.01-B	< 3	< 3
Pathogen Fecal coliform (most probable number per gram dry weight basis)	TMECC 07.01-B	< 1,000	< 1,000
Physical contaminants (% dry weight) Plastic, glass, and metal	TMECC 02.02-C	combined total: < 0.5	combined total: < 1.0
Film plastic (% dry weight)	TMECC 02.02-C	Combined total: < 0.1	Combined total: < 0.1

[a] TMECC refers to *Test Methods for the Examination of Composting and Compost*, published by the United States Department of Agriculture and the United States Compost Council (USCC).

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DIVISION V SURFACINGS AND PAVEMENTS

39 ASPHALT CONCRETE

Add to the list in the definition of *miscellaneous areas* in section 39-2.01A(2):

8. Driveways

^^

DIVISION VI STRUCTURES

48 TEMPORARY STRUCTURES

Replace *Reserved* under Section 48-7 with:

48-7 TEMPORARY DETOUR BRIDGE

48-7.01 GENERAL

48-7-0.1A Summary

Section 48-7 includes specifications for constructing, maintaining, and removing a temporary detour bridge.

The temporary bridge must be designed and constructed such that it is:

1. Safe and adequate.

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2. Supports the required live loads.

3.Produces a completed structure that conforms to the lines and grades shown.

The temporary bridge shall be designed as a Prefabricated Modular Highway Bridge as specified in Caltrans Structure Technical Policy (STP) 17.1

48-7-01.B Definitions

Temporary Bridge – A bridge that is anticipated to be in service less than 5 years.

Modular Bridge – A temporary prefabricated modular steel panel truss bridge.

Modular Highway Bridge – A modular bridge built for carrying vehicular traffic.

48-7-01C Submittals

48-7.01C(1) General

Submit shop drawings and design calculations for temporary detour bridge. Design calculations must comply with STP 17.1

The temporary bridge shall comply with all permits, licenses, agreements, and certifications (PLAC) and environmental commitment record (ECR).

Submit a letter of certification that certifies all components of manufactured assemblies are used in compliance with the manufacturer's instructions.

Submit manufacturer's data for manufactured assemblies to verify manufacturer's instructions or perform tests demonstrating adequacy of the proposed assemblies.

Submit a letter of certification for all steel members with welded splices. The letter must certify that all welding and NDT, including visual inspection, comply with the Contract and the welding standard shown in the shop drawings. The letter must be signed by an engineered registered in the State of California. Submit the letter before erecting the members.

48-7.01C(2) Shop Drawings

Shop drawings must be submitted with supporting calculations.

Shop drawings and calculations must be signed by an engineer who is registered as a civil engineer in the State.

Submit 6 copies of shop drawings and 2 copies of design calculations. Include in the submittal:

1. Details of erection and removal activities.
2. Methods and sequences of erection and removal.
3. Assumed soil bearing values for abutment footings.
4. Design calculations including stresses and deflections in load carrying members.
5. Welding standard used for welded members.

48-7-01.DWelding and Nondestructive Testing

See Section 48-2.01D(2).

Modular bridge company must authorize welding first.

48-7.02 MATERIALS

48-7.02A Design Criteria

The Modular Highway Bridge shall be designed in accordance with the Caltrans Structure Technical Policy (STP) 17.1

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The temporary bridge, bearings, substructure, and foundation must be designed in accordance with the current version of *AASHTO LRFD BDS with Caltrans Amendments* for the limit states: Strength I, Strength II, Strength III, Strength V, Fatigue I, Extreme Event I, Extreme Event II, Service I, and for Stability.

All bridge supports must be located outside of the active channel (ie. clear span) where the active channel is defined by the ordinary high water mark elevation.

Minimum structure width shall be 28 feet with one lane in each direction.

Barriers must be compliant with Manual for Assessing Safety Hardware (MASH).

Riding surface must have 2 inches of AC overlay (coordinate with roadway group) and the geofabric must be placed under overlay to prevent leaks between gaps in deck panels.

48-7.02B Loads

The temporary bridge shall be designed for the loads specified in Caltrans STP 17.1.4

48-7.02B(1) Stresses and Deflections

Vehicular live load HL-93 deflection must not exceed the limit of span length/800.

Abutments shall be designed to have minimal differential deflection beneath the trusses.

48-7.02B(3)(b) Timber

See Section 48-2.02B(3)(b) for timber piles.

48-7.02B(3)(c) Steel

See Section 48-2.02B(3)(c).

48-7.03 CONSTRUCTION

48-7.03A General

A representative from the modular bridge company must be onsite during construction.

48-7.03B Foundations/Abutments

Abutments should be design for both loads listed in Section 48-7.02B and installation loads. (per Mabey instructions installation loads consists of longitudinal loads as well as vertical and lateral loads and may govern the design when a large bridge is being launched.)

(From Mabey) the abutment backwalls shall be cast after the bridge is in place to allow for tolerances in the bridge.

All bearings on the abutment shall be set in the same plane to avoid maldistribution of stresses in the bridge.

48-7.03C Erection

The modular Bridge shall be erected in accordance with manufacturer's specifications.

48-7.03D Removal

Upon completion of the project, the temporary bridge shall be completely removed and work debris shall be removed from the project site.

Down to Y' below (vs. permanent) or bridge removal standard. Shoring?

48-7.04 PAYMENT

Not Used.

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49 PILING

Add to the end of section 49-1.01D(4):

Perform dynamic monitoring of the first production pile driven for each abutment or bent.

Add to section 49-1.03:

Expect difficult pile installation due to the conditions shown in the following table:

Pile location		Conditions
29C-476	All locations	Variable clay layer; dewatering requirements, proximity to existing abutments and piles.

Add to section 49-2.01A(3)(b):

Before installing driven piles, submit a driving system submittal for each pile type for each of the support locations or control zones shown in the following table:

Bridge no.	Pile type	Support location or control zone
29C-038	Class 200 Alt "Y"	Abutment 1
29C-038	24" Octagonal PC/PS	Bent 2
29C-038	Class 200 Alt "Y"	Abutment 3

Add to section 49-2.01D:

Payment for dynamic monitoring is included in payment for drive pile.

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50 PRESTRESSING CONCRETE

Replace the 2nd paragraph of section 50-1.01C(3) with:

For initial review, submit:

6 copies

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51 CONCRETE STRUCTURES

Add to section 51-1.01C(1):

If the methacrylate crack treatment is applied to a bridge deck within 100 feet of a residence, business, or public space, submit a public safety plan. Include with the submittal:

1. Copy of public notification letter with a list of delivery addresses and posting locations. The letter must describe the work to be performed and state the treatment work locations, dates, and times. Deliver copies of the letter to residences and businesses within 100 feet of the treatment work and to local fire and police officials, at least 7 days before starting treatment activities. Post a copy of the letter at the job site.
2. Airborne emissions monitoring plan. Plan must include monitoring point locations. A CIH certified in comprehensive practice by the American Board of Industrial Hygiene must prepare and execute the plan.
3. Action plan for protecting the public if levels of airborne emissions exceed permissible levels.
4. Copy of the CIH's certification.

After completing methacrylate crack treatment activities, submit results from monitoring production airborne emissions as an informational submittal.

Replace the 1st paragraph of section 51-1.01C(1) with:

Submit a deck placement plan for concrete bridge decks. Include in the placement plan your method and equipment for ensuring that the concrete bridge deck is kept damp by misting immediately after finishing the concrete surface.

Replace *Reserved* in section 51-1.01D(1) with:

The job site must have at least 4 airborne emissions monitoring points, including the mixing point, application point, and point of nearest public contact. Monitor airborne emissions during methacrylate crack treatment activities.

^^

52 REINFORCEMENT

Replace section 52-4 with:

52-4 ELECTRIC-RESISTANCE WELDED STIRRUPS FOR CONCRETE BARRIER REINFORCEMENT CAGES

52-4.01 GENERAL

52-4.01A Summary

Section 52-4 includes specifications for welding longitudinal support wire to stirrups using electric-resistance welding (ERW) to partially fabricate reinforcing cages for concrete barriers.

Electric-resistance welded supports may be used only for concrete barrier stirrups on structures.

You may use ERW to weld support wire to no.5 reinforcing bars or smaller. The support wire must be W 6.5 or smaller.

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52-4.01B Definitions

partially fabricated reinforcing cage: Stirrups for concrete barrier reinforcing cages held in position by welded longitudinal support wires.

lot: 150 count, or fraction thereof, of welds for each size of reinforcing bar and support wire and for each change to the welding equipment settings.

52-4.01C Submittals

52-4.01C(1) General

Not Used

52-4.01C(2) Certificate of Compliance

Submit a certificate of compliance for each shipment of partially fabricated cages. Include with the submittal:

1. Identification of each cage including lot numbers, welds traceable by welding clamp, and location tracking information.
2. Grade and size of welded reinforcement used for the stirrups and support wire.
3. For the reinforcing bar and support wire:
   3.1. Heat number
   3.2. Mill certificate

52-4.01C(3) Test Samples

Submit QA test samples to METS.

Include copies of certificates of compliance with the test samples.

52-4.01C(4) Welding Quality Control Plan

Submit 2 copies of a welding QC plan for each subcontractor or supplier performing ERW. The QC plan must include:

1. WPSs
2. Names and certifications of welding personnel
3. Welding procedures including current setting, welding clamp force, weld time, and hold time for each size of reinforcement to be welded
4. Welding equipment manufacturer's operating instructions including the recommended calibration frequency of the welding equipment
5. Documentation of ERW equipment calibration
6. Fabricator's *QC Process Control Manual*
7. Method for identifying welds and tracking lots

For the contents, format, and organization required for a welding QC plan, go to the METS website.

52-4.01C(5) Shop Drawings

Submit shop drawings showing the stirrup positioning, welded connections of the support wire to the stirrups, and welding equipment layout. Allow 15 days for the Engineer's review.

52-4.01C(6) Prefabrication Test Results

Submit the prefabrication test results within 3 days of prefabrication testing. The prefabrication test results must include:

1. Contract number
2. Bridge number
3. Welds identified by welding clamp
4. Reinforcement and support wire sizes
5. Test specimen length
6. Physical condition of test samples
7. Notable defects
8. Ultimate tensile strength of each sample
9. Location of necking area of each sample

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Allow 3 business days for the Engineer's review.

52-4.01C(7) Quality Control Test Reports

Submit a QC test report within 7 days of testing for each lot. The report must be prepared by the authorized laboratory performing the testing. The report must be signed by the QC manager. For each lot, the report must include:

1. Contract number
2. Bridge number
3. Lot numbers with welds identified by welding clamp
4. Installed location of completed cages
5. Reinforcement and support wire sizes
6. Cage types
7. Cage lengths
8. Test specimen length
9. Physical condition of test samples
10. Notable defects
11. Ultimate tensile strength of each sample
12. Location of necking area of each test sample

Allow 3 business days for the Engineer's review.

52-4.01D Quality Assurance

52-4.01D(1) General

Provide a welding QC manager. The QC manager must be registered as a civil engineer in the State or currently certified as a CWI.

52-4.01D(2) Prewelding Meeting

Before submitting a welding QC plan, hold a prewelding meeting to discuss the work and the requirements for the welding QC plan. The meeting attendees must include the Engineer, your welding QC manager, and a representative from each entity performing welding or welding inspection.

52-4.01D(3) Test Samples

Samples must be a minimum length of 4 feet of bar reinforcing steel with a support wire welded at midpoint. You may furnish shorter length samples if authorized.

Prepare the samples using the same materials, procedures, equipment, and equipment settings used in the work.

The welding clamps that produce the samples are determined by the Engineer.

Prepare QC test samples and the Department acceptance test samples concurrently:

1. During fabrication of samples representing the 1st lot
2. From 1 of every 5 subsequent lots, or fraction thereof, randomly selected by the Engineer

After receiving notification that lots are ready for QC testing, the Engineer (1) randomly selects test samples to represent each lot and (2) places tamper-proof markings or seals on the test samples.

Before transporting test samples to an authorized laboratory and METS:

1. Securely bundle and package the test samples for each test in a way that preserves their condition during transportation
2. Identify each test sample by lot number and Contract number using weatherproof markings
3. Attach a completed Sample Identification Card to each bundle

If a sample show signs of tampering before testing, the sample is rejected.

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52-4.01D(4) Quality Control

52-4.01D(4)(a) General

Test the samples for tensile strength under California Test 670, Section E, Part III, Tensile Test.

Tensile testing must be performed by an authorized laboratory. The laboratory must be on the Authorized Laboratories List for testing reinforcing steel splices.

52-4.01D(4)(b) Prefabrication Testing

Before the start of fabrication of production cages, prepare 4 samples from each welding clamp.

Notify the Engineer at least 5 business days before fabricating the samples.

If 3 or more of the 4 samples from each welding clamp attain the specified minimum tensile strength, the Department accepts the prefabrication test results.

If 2 of the 4 samples attain the specified minimum tensile strength, determine the cause of the failure and take corrective action as specified in section 52-4.01D(4)(c). Fabricate 4 additional samples from the clamp that produced the noncompliant samples, and perform tensile tests until at least 3 of the 4 samples attain the specified minimum tensile strength.

Do not start fabrication of production cages until the Department accepts the test results.

52-4.01D(4)(c) Fabrication Testing

During fabrication of production cages, for each lot prepare 8 test samples.

At least 5 business days before performing fabrication testing, notify the Engineer of:

1. Date of the testing
2. Location of the authorized laboratory where the tests will be conducted
3. Number of lots to be tested

Do not perform tests on test samples from bundles containing fewer than 8 samples. Test 4 of the samples. The Engineer determines the samples to be tested.

If 3 or more of the 4 samples from a lot attain the specified minimum tensile strength, the Department accepts the lot.

If 2 of the 4 samples from a lot attain the specified minimum tensile strength, perform additional tests on the remaining samples. If any of the additional samples do not attain the specified minimum tensile strength, the Department rejects the lot.

If a lot is rejected, stop production until the following corrective actions have been performed:

1. QC manager reviews your QC process
2. You have prepared a welding rejection mitigation report describing:
   - 2.1. Cause of the failure
   - 2.2. Method used to identify the cause of failure
   - 2.3. Identification of affected lots
   - 2.4. Provisions for preventing similar failures in future lots
   - 2.5. Procedure for repairing or replacing the welded connections in the rejected lot
3. Engineer has notified you that the welding rejection mitigation report is authorized

52-4.01D(5) Department Acceptance

The Department accepts lots based on your QC tension test results specified in section 52-4.01D(4)(c).

The Department performs tensile test on samples from the 1st lot and from 1 of every 5 subsequent lots, or fraction thereof, randomly selected by the Engineer.

If 3 or more of the 4 samples attain the specified minimum tensile strength, the Department accepts the lot.

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If 2 of the 4 samples attain the specified minimum tensile strength, fabricate 4 additional samples using the same materials and welding machine settings as the noncompliant lot. If any of the 4 additional samples do not attain the minimum specified tensile strength, the Department rejects the lot.

If QC and Department acceptance testing results have different compliance determinations, the Department will perform QA testing for all subsequent lots until QC testing and the Department testing are consistent for 2 consecutive lots before resuming testing for 1 of every 5 lots, or fraction thereof, as determined by the Engineer.

52-4.02 MATERIALS

52-4.02A General

Reinforcing bars must comply with ASTM A706, Grade 60.

Support wire must comply with the specifications for plain wire in ASTM A1064.

The tensile strength of reinforcing bars with the support wire welded to the bar must be at least 80,000 psi.

52-4.02B Fabrication

Perform ERW at a fabrication shop using computer-controlled equipment.

Weld the support wire to the stirrups. The stirrups must be positioned as shown. The support wire must be capable of maintaining the dimensions, position, and shape of the stirrups until the cage is complete.

52-4.03 CONSTRUCTION

Provide bracing to avoid collapse of the cage during assembly, transportation, and placement as needed.

Field tack welding of support wire to reinforcement is not allowed.

Wiring longitudinal reinforcement at each stirrup intersection is not required.

52-4.04 PAYMENT

Not Used

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Replace *Reserved* in section 83-2.01B with:

83-2.01B(1) General

83-2.01B(1)(a) Summary

Section 83-2.01B includes specifications for constructing vegetation control around railing and barrier posts.

Constructing minor concrete vegetation control includes clearing and excavation.

83-2.01B(1)(b) Definitions

Not Used

83-2.01B(1)(c) Submittals

Submit a mix design for the minor concrete to be used for vegetation control. The mix design must show proportions of:

1. Coarse aggregate
2. Fine aggregate
3. Cementitious material
4. Reinforcing fiber
5. Water

Include compressive strength test results with the mix design.

Submit a certificate of compliance for the crumb rubber aggregate, if used. Include the quantity in pounds of crumb rubber.

83-2.01B(1)(d) Quality Assurance

Not Used

83-2.01B(2) Materials

83-2.01B(2)(a) General

Not Used

83-2.01B(2)(b) Minor Concrete

83-2.01B(2)(b)(i) General

Concrete for vegetation control must comply with the specifications for minor concrete, except the concrete:

1. Must include reinforcing fibers
2. May include crumb rubber aggregate
3. Must contain:
   3.1. At least 505 pounds of cementitious material per cubic yard, if crumb rubber aggregate is used
   3.2. At least 400 pounds of cementitious material per cubic yard, if crumb rubber aggregate is not used
4. Must have a maximum aggregate size of 3/8 inch

All ingredients must be added at the concrete plant before delivery to the job site.

You may use volumetric proportioning complying with ASTM C685/C685M or as specified.

The minor concrete must have a 28-day compressive strength from 1,400 to 2,500 psi.

83-2.01B(2)(b)(ii) Crumb Rubber Aggregate

Crumb rubber aggregate must consist of ground or granulated scrap tire rubber from automobile and truck tires. Do not use tire buffings.

Crumb rubber aggregate must be ground and granulated at ambient temperature.

The crumb rubber aggregate gradation must comply with the requirements shown in the following table:

Gradation Requirements

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Sieve size	Percentage passing
1/2"	100
3/8"	90–100
1/4"	35–45
No. 4	5–15
No. 8	0–5
No. 16	0

Crumb rubber aggregate must not contain more than 0.01 percent of wire by mass and must be free of oils and volatile organic compounds.

Do not commingle crumb rubber from different sources.

The crumb rubber aggregate must be 3.5 ± 0.5 percent by weight of the concrete.

83-2.01B(2)(b)(iii) Reinforcing Fibers

Reinforcing fibers for minor concrete must be:

1. Manufactured specifically for use as concrete reinforcement from one of the following:
   1.1. Polypropylene, polyethylene, or a combination of both.
   1.2. Copolymer of polypropylene and polyethylene.
2. Blended ratio from 4 to 5.67 parts by weight of macro synthetic fibers to 1 part by weight of micro synthetic fibers. Synthetic fibers must be:
   2.1. Nonfibrillated macro fibers with individual fiber lengths less than 2 ± 1/2 inches.
   2.2. Fibrillated or monofilament micro fibers of various lengths and thicknesses.
3. Supplied in sealed, degradable bags of appropriate size for adding whole bags to concrete batches.
4. From a commercial source.

The reinforcing fiber content of the minor concrete must be from 5 to 6 lb/cu yd.

83-2.01B(2)(b)(iv) Coloring Agent

Not Used

83-2.01B(2)(c) Block-Out Material

The block-out material must be a commercially available expanded polystyrene foam with a compressive strength of 13 ± 5 psi at 10 percent deformation when tested under ASTM D1621.

If authorized, you may substitute an alternative block-out material that complies with the compressive strength requirements of the expanded polystyrene foam.

83-2.01B(2)(d) Backfill Material

Backfill material must be Class 2 aggregate base complying with section 26.

83-2.01B(3) Construction

83-2.01B(3)(a) General

Not Used

83-2.01B(3)(b) Clearing

Clear areas to receive vegetation control of vegetation, trash, and debris. Dispose of the removed material.

83-2.01B(3)(c) Earthwork

Excavate or backfill areas to receive vegetation control.

If the vegetation control abuts the existing surfacing and the edge of the existing surfacing is not on a neat line, cut the surfacing on a neat line to a minimum depth of 2 inches before removing the surfacing.

Perform grading so that the finished elevation of the vegetation control maintains the existing or planned flow lines, slope gradients, contours, and existing surfacing.

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Grade the areas to receive vegetation control to a smooth, uniform surface and compact to a relative compaction of at least 90 percent.

83-2.01B(3)(d) Block Outs

For block-out material supplied in more than 1 piece, tape the pieces together to make a smooth surface on the top and sides.

Ensure that the block-out material does not move during concrete placement.

83-2.01B(3)(e) Forming

Forming must comply with section 73-1.03C.

Leave forms in place for at least 12 hours after surface finishing.

83-2.01B(3)(f) Minor Concrete

Strike off and compact the minor concrete until a layer of mortar is brought to the surface. Match the finished grade to the adjacent section of vegetation control, pavement, shoulder, or existing grade.

Construct contraction joints by scoring concrete with a grooving tool and rounding corners with an edger tool.

83-2.01B(3)(g) Backfill Material

Backfill material required for vegetation control under existing guardrail or barrier is change order work. Excavate or backfill areas to receive vegetation control.

83-2.01B(4) Payment

Not Used

Replace *Reserved* in section 83-2.02C(3) with:

The offset from the face of the Type WB-31 transition railing to the hinge point must be at least 3'-6".

The offset from the face of the adjacent midwest guardrail system to the hinge point must be transitioned from the offset at the Type WB-31 transition railing to 4'-0" using a ratio of 6:1.

Replace section 83-2.04B with:

83-2.04B Alternative In-line Terminal Systems

83-2.04B(1) General

83-2.04B(1)(a) Summary

Section 83-2.04B includes specifications for constructing alternative in-line terminal systems.

83-2.04B(1)(b) Definitions

Not Used

83-2.04B(1)(c) Submittals

Submit a certificate of compliance for alternative in-line terminal systems.

83-2.04B(1)(d) Quality Assurance

For each model of alternative in-line terminal system being installed, obtain the manufacturer's check list for the assembly and installation of the alternative in-line terminal systems from the manufacturer's representative or distributor. Notify the Engineer of the alternative in-line terminal systems to be installed at each location before starting installation activities. Complete, sign, and date the check list for each installed in-line terminal system and submit a copy of the completed and signed check list for each installed location, and include the following:

1. Contract number

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2. Name of installation Contractor
3. Flare offset used in layout
4. Date of installation
5. Location on the project by post mile, and by station if stationing shown on plans
6. Name and signature of individual completing the checklist.

The Engineer signs and dates the completed check lists, verifying the in-line terminal system at each location was assembled and installed under the manufacturer's instructions and as described.

Use personnel trained by the manufacturer to install in-line terminal systems. A record of training provided by the manufacturer may be requested by the Engineer at any time.

83-2.04B(2) Materials

Alternative in-line terminal systems must be one of the following or a Department-authorized equal:

1. Type SoftStop terminal systems must be SoftStop End Terminal System manufactured by Trinity Highway Products, LLC, and must include the connection components. Type SoftStop terminal system - Type SoftStop terminal system must be a SoftStop terminal with a System length of 50'-9 1/2" for test level 3, manufactured by Trinity Highway Products, LLC, and must include items detailed for SoftStop terminal system, as shown. The SoftStop terminal can be obtained from the manufacturer:

Address	Telephone no.
TRINITY HIGHWAY PRODUCTS LLC PO BOX 99 CENTERVILLE UT 84012	(800) 772-7976

2. Type MSKT - Type MSKT terminal system must be a 31" MSKT Guard Rail End Terminal with a system length of 50'-0" as manufactured by Road Systems, Inc., located in Big Spring, Texas, and must include items detailed for Type MSKT terminal system shown on the plans. The MSKT Guard Rail End Terminal can be obtained from the distributor:

Address	Telephone no.
UNIVERSAL INDUSTRIAL SALES PO BOX 699 PLEASANT GROVE UT 84062	(801) 785-0505
GREGORY INDUSTRIES INC 4100 13TH ST SW CANTON OH 44708	(330) 477-4800

3. Type MAX-Tension Tangent Guardrail End Treatment by Barrier Systems, Inc. is a tangent, re-directive gating guardrail terminal. The MAX-Tension has a length of 55'-1/2", and can be flared for an offset of 0 to 2 feet at the head. The MAX-Tension terminal can be obtained from the distributor:

Address	Telephone no.
STATEWIDE SAFETY AND SIGNS INC 130 GROBRIC COURT FAIRFIELD CA 94533	(800) 770-2644

83-2.04B(3) Construction

Identify each terminal system by painting the type of terminal system in 2-inch-high, neat, black letters and figures on the backside of the rail element between system posts number 4 and 5. Paint must be metallic acrylic resin type spray paint. Before applying terminal system identification, the surface to receive terminal system identification must be free of all dirt, grease, oil, salt, or other contaminants by washing the surface with detergent or other suitable cleaner. Rinse thoroughly with fresh water and allow to fully dry.

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Install Type SoftStop terminal system under the manufacturer's installation instructions. For Type SoftStop terminal system, use W6 x 8.5 steel yielding terminal posts for Posts 1 and 2 and standard W6 x 8.5 steel posts for the other posts. Drive all posts or place them in drilled holes. Backfill the space around the posts with selected earth that is free of rock. Moisten and thoroughly compact each layer. For the terminal with a system length of 50'-9 1/2" or system length of 38'-3 1/2", all blocks must be wood or plastic and must be 8 or 12 inches deep.

For Type MSKT terminal system, install a W6x15 at lower section Post 1 with a soil plate attached and a 6 by 6 by 1/8 inches tube section at upper section Post 1. Install a W6x9 or W6x8.5 post assembly top and post assembly bottom at Post 2. Install W6x9 or W6x8.5 at Posts 3 through 8. Attach a 9'-4 1/2" W-beam MGS rail section to Post 3. Use 8-inch blocks. The posts must be, at your option, driven with or without pilot holes, or placed in drilled holes. Do not pound on the side plates when installing lower post #1 and lower post #2. Space around the posts must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer must be moistened and thoroughly compacted.

Install Type MAX-Tension terminal system under the manufacturer's installation instructions. Use 8- or 12-inch wood or composite blocks. Install W6x8.5 or W6x9 at post positions after Post 1. Backfill the space around the posts with selected earth that is free of rock. The posts must be, at your option, driven with or without pilot holes, or placed in drilled holes. Space around the posts must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer must be moistened and thoroughly compacted.

83-2.04B(4) Payment

Not Used

Replace section 83-4.06 with:

83-4.06 CRASH CUSHIONS

83-4.06A General

83-4.06A(1) Summary

Section 83-4.06 includes specifications for constructing permanent crash cushions.

The same model must be used at all locations.

You may use alternative crash cushions. Alternative crash cushions must:

1. be approved at MASH Test Level 3
2. be listed on the Caltrans Authorized Material List for Highway Safety Features for Permanent Crash Cushions at the time of installation
3. have a maximum height of 34 inches
4. have a maximum length and width which provide clear widths shown

Crash cushions must be installed on concrete pads under the manufacturer's instructions.

Concrete for concrete pads must comply with the specifications for minor concrete.

Reinforcing steel for concrete pads must comply with section 52.

83-4.06A(2) Definitions

Not Used

83-4.06A(3) Submittals

Submit a copy of the manufacturer's plan and parts list as an informational submittal.

Submit a certificate of compliance for the crash cushions.

83-4.06A(4) Quality Assurance

Not Used

83-4.06B Materials

Not Used

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83-4.06C Construction

Install crash cushions under the manufacturer's instructions.

83-4.06D Payment

Payment for concrete pads is included in the payment for crash cushions.

^^

DIVISION XI MATERIALS

90 CONCRETE

Add to section 90-1.01A:

The specifications for CIP structural concrete members in sections 90-1.01C(6)(b), 90-1.01C(8)(b), 90-1.01C(11), 90-1.01C(12), 90-1.01D(7), 90-1.01D(8), 90-1.01D(9), 90-1.01D(10)(b), and 90-1.01D(11)(b) do not apply.

Add to section 90-1.01C(11) of the RSS for section 90-1.01C:

^^

96 GEOSYNTHETICS

Add to section 96-1.02B:

Filter fabric for geocomposite drains must be Class A.

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SAN JOAQUIN COUNTY

95% CONSTRUCTION COST ESTIMATE

ESCALON-BELLOTA ROAD BRIDGE OVER LITTLEJOHNS CREEK

1/31/2022 CCI = 171.38

ITEM NO.	(F)	ITEM CODE	ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE	ITEM TOTAL	Non-Participating Quantity	Non-Participating Total
1		066595	WATER POLLUTION CONTROL MAINTENANCE	LS	1	$4,100.00	$ 4,100		
2		066597	STORMWATER SAMPLING AND ANALYSIS	LS	1	$2,000.00	$ 2,000		
3		070030	LEAD COMPLIANCE PLAN	LS	1	$3,000.00	$ 3,000		
4		074019	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	1	$5,600.00	$ 5,600		
5		120090	CONSTRUCTION AREA SIGNS	LS	1	$10,000.00	$ 10,000		
6		120120	TYPE III BARRICADE	EA	6	$81.00	$ 486		
7		120149	TEMPORARY PAVEMENT MARKING (PAINT)	SQFT	1510	$3.00	$ 4,530		
8		129000	TEMPORARY RAILING (TYPE K)	LF	164	$108.00	$ 17,712		
9		130100	JOB SITE MANAGEMENT	LS	1	$35,000.00	$ 35,000		
10		130310	RAIN EVENT ACTION PLAN	EA	4	$500.00	$ 2,000		
11		130320	STORM WATER SAMPLING AND ANALYSIS DAY	EA	1	$5,900.00	$ 5,900		
12		130330	STORMWATER ANNUAL REPORT	EA	1	$2,000.00	$ 2,000		
13		130710	TEMPORARY CONSTRUCTION ENTRANCE	EA	2	$5,300.00	$ 10,600		
14		130730	STREET SWEEPING	LS	1	$10,000.00	$ 10,000		
15		130900	TEMPORARY CONCRETE WASHOUT	EA	2	$5,000.00	$ 10,000		
16		140003	ASBESTOS COMPLIANCE PLAN	LS	1	$3,000.00	$ 3,000		
17		141101	REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	1066	$3.50	$ 3,731		
18		141120	TREATED WOOD WASTE	LB	1900	$1.25	$ 2,375		
19		146002	CONTRACTOR-SUPPLIED BIOLOGIST	LS	1	$61,000.00	$ 61,000		
20		170103	CLEARING AND GRUBBING	LS	1	$3,900.00	$ 3,900		
21		190101	ROADWAY EXCAVATION	CY	1389	$85.00	$ 118,065		
22		194001	DITCH EXCAVATION	CY	10	$300.00	$ 3,000		
23		198010	IMPORT BORROW (CY)	CY	1330	$115.00	$ 152,950		
24		210212	DRY SEED (SQFT)	SQFT	11600	$0.30	$ 3,480		
25		210270	ROLLED EROSION CONTROL PRODUCT (NETTING)	SQFT	11210	$0.85	$ 9,529		
26		210610	COMPOST	CY	10	$200.00	$ 2,000		
27		260203	CLASS 2 AGGREGATE BASE	CY	1265	$140.00	$ 177,100		
28		390132	HOT MIX ASPHALT (TYPE A)	TON	778	$210.00	$ 163,380	[1] 35	$ 7,350.00
29		394074	PLACE HOT MIX ASPHALT DIKE (TYPE C)	LF	283	$3.00	$ 849		
30		398100	REMOVE ASPHALT CONCRETE DIKE	LF	522	$11.00	$ 5,742		
31	F	510094	STRUCTURAL CONCRETE, DRAINAGE INLET	CY	7	$3,000.00	$ 21,000		
32	F	520101	BAR REINFORCING STEEL	LB	839	$5.00	$ 4,195		
33		665010	12" CORRUGATED STEEL PIPE	LF	175	$210.00	$ 36,750		
34		710126	REMOVE OVERSIDE DRAIN	EA	1	$1,100.00	$ 1,100		
35		710132	REMOVE CULVERT	LF	70	$75.00	$ 5,250		
36	F	721015	ROCK SLOPE PROTECTION (LIGHT, METHOD B)	CY	186	$215.00	$ 39,990		
37		729011	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	SQYD	223	$13.00	$ 2,899		
38		800051	FENCE (TYPE WM, METAL POST)	LF	272	$26.00	$ 7,072		
39		803040	REMOVE FENCE (TYPE WM)	LF	272	$11.00	$ 2,992		
40		803060	REMOVE GATE	EA	1	$500.00	$ 500		
41		803170A	RELOCATE FENCE	LS	1	$2,000.00	$ 2,000		
42		801110	4' WIREMESH GATE	EA	1	$1,000.00	$ 1,000		
43		810230	PAVEMENT MARKER (RETROREFLECTIVE)	EA	41	$15.00	$ 615		
44		820134	OBJECT MARKER (TYPE P)	EA	4	$90.00	$ 360		
45		820220	REMOVE MARKER	EA	3	$50.00	$ 150		
46		820510	RESET ROADSIDE SIGN (ONE POST)	EA	1	$400.00	$ 400		
47		820590	RELOCATE ROADSIDE SIGN ONE-POST	EA	1	$240.00	$ 240		
48		832007	MIDWEST GUARDRAIL SYSTEM (WOOD POST)	LF	13	$200.00	$ 2,600		
49		832070	VEGETATION CONTROL (MINOR CONCRETE)	SQYD	79	$72.00	$ 5,688		
50		839543	TRANSITION RAILING (TYPE WB-31)	EA	2	$4,500.00	$ 9,000		
51		839584	ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA	2	$3,500.00	$ 7,000		
52		839752	REMOVE GUARDRAIL	LF	71	$20.00	$ 1,420		
53		840505	6" THERMOPLASTIC TRAFFIC STRIPE	LF	1906	$4.75	$ 9,054		
54		840515	THERMOPLASTIC PAVEMENT MARKING	SQFT	17	$35.00	$ 595		
55		840531	6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 18-12)	LF	226	$3.00	$ 678		
56		141101	REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	1070	$9.00	$ 9,630		
57		141101A	REMOVE WHITE PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	533	$9.00	$ 4,797		
58		129110A	TEMPORARY ALTERNATIVE CRASH CUSHION (NARROW)	EA	4	$5,000.00	$ 20,000		
59		839600A	ALTERNATIVE CRASH CUSHION (NARROW)	EA	2	$5,000.00	$ 10,000		
60			TEMPORARY DETOUR BRIDGE	LS	1	$241,000.00	$ 241,000		
			SUBTOTAL ROADWAY CONTRACT ITEMS				**$ 1,281,003**		**$ 7,350**
61	F	192003	STRUCTURE EXCAVATION (BRIDGE)	CY	257	$220.00	$ 56,540		
62	F	193003	STRUCTURE BACKFILL (BRIDGE)	CY	174	$190.00	$ 33,060		
63		490780	FURNISH PILING (CLASS 200)	LF	1273	$75.00	$ 95,475		
64		490781	DRIVE PILE (CLASS 200)	EA	28	$2,600.00	$ 72,800		
65		4907X0	FURNISH PILING (24" OCTAGONAL PC/PS CONCRETE)	LF	481	$250.00	$ 120,250		
66		4907X1	DRIVE PILE (24" OCTAGONAL PC/PS CONCRETE)	EA	7	$10,000.00	$ 70,000		
67		500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	1	$40,000.00	$ 40,000		
68	F	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	47	$750.00	$ 35,250		
69	F	510053	STRUCTURAL CONCRETE, BRIDGE	CY	107	$2,370.00	$ 253,590		
70	F	510054	STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	CY	301	$1,370.00	$ 412,370		
71		519088	JOINT SEAL (MR 1")	LF	72	$90.00	$ 6,480		
72	F	520102	BAR REINFORCING STEEL (BRIDGE)	LB	70637	$1.70	$ 120,083		
73		600097	BRIDGE REMOVAL	LS	1	$90,000.00	$ 90,000		
74	F	839744	CONCRETE BARRIER TYPE 836 (MODIFIED)	LF	298	$250.00	$ 74,500		
75	F	833089	TUBULAR BICYCLE RAILING	LF	292	$240.00	$ 70,080		
			SUBTOTAL BRIDGE CONTRACT ITEMS				**$ 1,550,478**		**$ -**
59		999990	MOBILIZATION (10%)	LS	1	$283,200	$ 283,200	$800	$ 800
			TOTAL CONTRACT ITEMS				**$ 3,115,000**		**$ 8,150**
			CONTINGENCIES (10%)				**$ 312,000**		**$ 815**
			PROJECT TOTAL				**$ 3,427,000**		**$ 8,965**
			FOR BUDGET PURPOSES USE				**$ 3,427,000**		**$ 9,000**

Notes:

1 Non-Participating costs account for work associated with Driveways 3, 4, 5, 6 & 8.

Construction Engineering (CE) (15%)	**$ 467,250**	**$ 1,223**

(PARTICIPATING & NON-PARTICIPATING) $ 3,436,000

CE(PARTICIPATING & NON-PARTICIPATING) $ 468,473

TOTAL COST INCLUDING CONSTRUCTION ENGINEERING (PARTICIPATING & NON-PARTICIPATING) $ 3,904,473

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DEPARTMENT OF PUBLIC WORKS

COUNTY OF SAN JOAQUIN

STATE OF CALIFORNIA

SPECIFICATIONS

(INCLUDING SPECIAL PROVISIONS, NOTICE TO BIDDERS, BID AND CONTRACT)

FOR THE

ESCALON-BELLOTA ROAD OVER LITTLEJOHNS CREEK BRIDGE REPLACEMENT BRIDGE NO. 29C-476

FEDERAL AID PROJECT NO. BRLS-5929(238)

DRAFT

For use in connection with California State Department of Transportation
STANDARD SPECIFICATIONS dated 2018
STANDARD PLANS dated 2018 and REVISED STANDARD PLANS
and LABOR SURCHARGE and EQUIPMENT RENTAL RATES

DATED_____ , 2022

SUBMITTED_____
FRITZ BUCHMAN
Director of Public Works

ESCALON-BELLOTA ROAD BRIDGE OVER LITTLEJOHNS CREEK BRIDGE REPLACEMENT
BRIDGE NO. 29C-476
Federal Aid Project No. BRLS—5929(238)

DRAFT

These special provisions are prepared by or under the direction of the following engineer(s):

Michael M. Wolohan
REGISTERED CIVIL ENGINEER
TYLin International

SPECIAL NOTICES

- Attention is directed to Section 9-1.03 of the Standard Specifications: “Full compensation for work specified in divisions I, II and XI is included in the payment for bid items unless otherwise noted.”

- Attention is directed to Section XXXX for pile installation at Abutment 1 where existing piles must be positively located prior to driving new abutment piles.

- Attention is directed to Section 49-1.03, difficult pile installation should be anticipated.

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APPLICABLE SAN JOAQUIN COUNTY IMPROVEMENT STANDARDS

Adjusting Street Facilities to Grade

R-30

APPLICABLE STATE STANDARD PLANS 2018 EDITION

The standard plan sheets applicable to this Contract include those listed below. The applicable revised standard plans (RSPs) listed below are included in the project plans.

ABBREVIATIONS, LINES, SYMBOLS, AND LEGEND

A3A Abbreviations (Sheet 1 of 3)
A3B Abbreviations (Sheet 2 of 3)
A3C Abbreviations (Sheet 3 of 3)
A10A Legend - Lines and Symbols (Sheet 1 of 5)
A10B Legend - Lines and Symbols (Sheet 2 of 5)
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PAVEMENT MARKERS, TRAFFIC LINES, AND PAVEMENT MARKINGS

A20A Pavement Markers and Traffic Lines - Typical Details
RSP A20B Pavement Markers and Traffic Lines - Typical Details
A24C Pavement Markings - Symbols and Numerals

EXCAVATION AND BACKFILL

A62A Excavation and Backfill - Miscellaneous Details
A62C Limits of Payment for Excavation and Backfill - Bridge

OBJECT MARKERS, DELINEATORS, CHANNELIZERS, AND BARRICADES

RSP A73B Markers
A73C Delineators, Channelizers and Barricades

MINOR CONCRETE VEGETATION CONTROL - GUARDRAIL SYSTEM

A77N5 Minor Concrete Vegetation Control - Guardrail System
A77N6 Minor Concrete Vegetation Control - Guardrail System - For Terminal System End Treatments
A77N11 Minor Concrete Vegetation Control - Guardrail System - Miscellaneous Details

MIDWEST GUARDRAIL SYSTEM - TYPICAL LAYOUTS FOR STRUCTURES

RSP A77Q1 Midwest Guardrail System - Typical Layouts for Structure Approach
RSP A77Q4 Midwest Guardrail System - Typical Layouts for Structure Departure

MIDWEST GUARDRAIL SYSTEM - CONNECTION DETAILS AND TRANSITION RAILING TO BRIDGE RAILINGS, ABUTMENTS AND WALLS

A77U2 Midwest Guardrail System - Connections to Bridge Railings without Sidewalks Details No. 2
RSP A77U4 Midwest Guardrail System - Transition Railing (Type WB-31)

CURBS, DRIVEWAYS, DIKES, CURB RAMPS, AND ACCESSIBLE PARKING

A87B Hot Mix Asphalt Dikes

PAVEMENTS

P74 Pavement Edge Treatments

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	DRAINAGE INLETS, PIPE INLETS AND GRATES
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D72C	**CIP Drainage Inlets - Types G1, G2, G3, G4, G5 and G6**
D72F	**CIP Drainage Inlet Notes**
D72G	**CIP Drainage Inlet Tables**
D73B	**Precast Drainage Inlets - Types G1, G2, G3, G4, G5 and G6**
D73C	**Precast Drainage Inlets - Types G1, G2, G3, G4, G5 and G6**
D73F	**Precast Drainage Inlet Notes**
D73G	**Precast Drainage Inlet Tables**
D74	**Drainage Inlet Details**
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	TEMPORARY CRASH CUSHIONS, RAILING AND TRAFFIC SCREEN
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T2	**Temporary Crash Cushion, Sand Filled (Shoulder Installations)**
T3A	**Temporary Railing (Type K)**
T3B	**Temporary Railing (Type K)**
	TEMPORARY TRAFFIC CONTROL SYSTEMS
T9	**Traffic Control System Tables for Lane and Ramp Closures**
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RSP T21	**Traffic Control System Construction Work Zone Speed Limit Reduction Twenty-Four Hours a Day 7 Days a Week (24/7)**
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RSP B0-1	**Bridge Details**
B0-3	**Bridge Details**
B0-5	**Bridge Details**
B0-13	**Bridge Details**
	PILES
RSP B2-8	**Pile Details - Class 200**
	JOINT SEALS
B6-21	**Joint Seals (Maximum Movement Rating = 2")**
	CAST-IN-PLACE POST-TENSIONED GIRDER
B8-5	**Cast-In-Place Post-Tensioned Girder Details**
	ADDITIONAL BRIDGE CONCRETE BARRIERS
RSP B11-79	**Concrete Barrier Type 836 Details No. 1**
RSP B11-80	**Concrete Barrier Type 836 Details No. 2**
	ROADSIDE SIGNS
RS1	**Roadside Signs - Typical Installation Details No. 1**
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RS4	*Roadside Signs - Typical Installation Details No. 4*

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CANCELED STANDARD PLANS LIST

The standard plan sheets listed below are canceled and not applicable to this contract.

Plan No.	Date Canceled	Plan No.	Date Canceled	Plan No.	Date Canceled
P31B	10-18-19				
P32A	10-18-19				
P32B	10-18-19				
C7A	10-19-18				
C7B	10-19-18				
C7C	10-19-18				
D89	10-18-19				
B11-55	04-19-19				
B11-56	10-19-18				
B11-57	10-19-18				
B11-60	04-16-21				
RSP B11-61	04-16-21				
S140	04-16-21				
S141	04-16-21				
S142	04-16-21				
ES-2C	10-19-18				
RSP ES-3A	04-16-21				
RSP ES-3I	10-16-20				
ES-3J	10-16-20				
ES-3L	10-16-20				
ES-7P	04-17-20				

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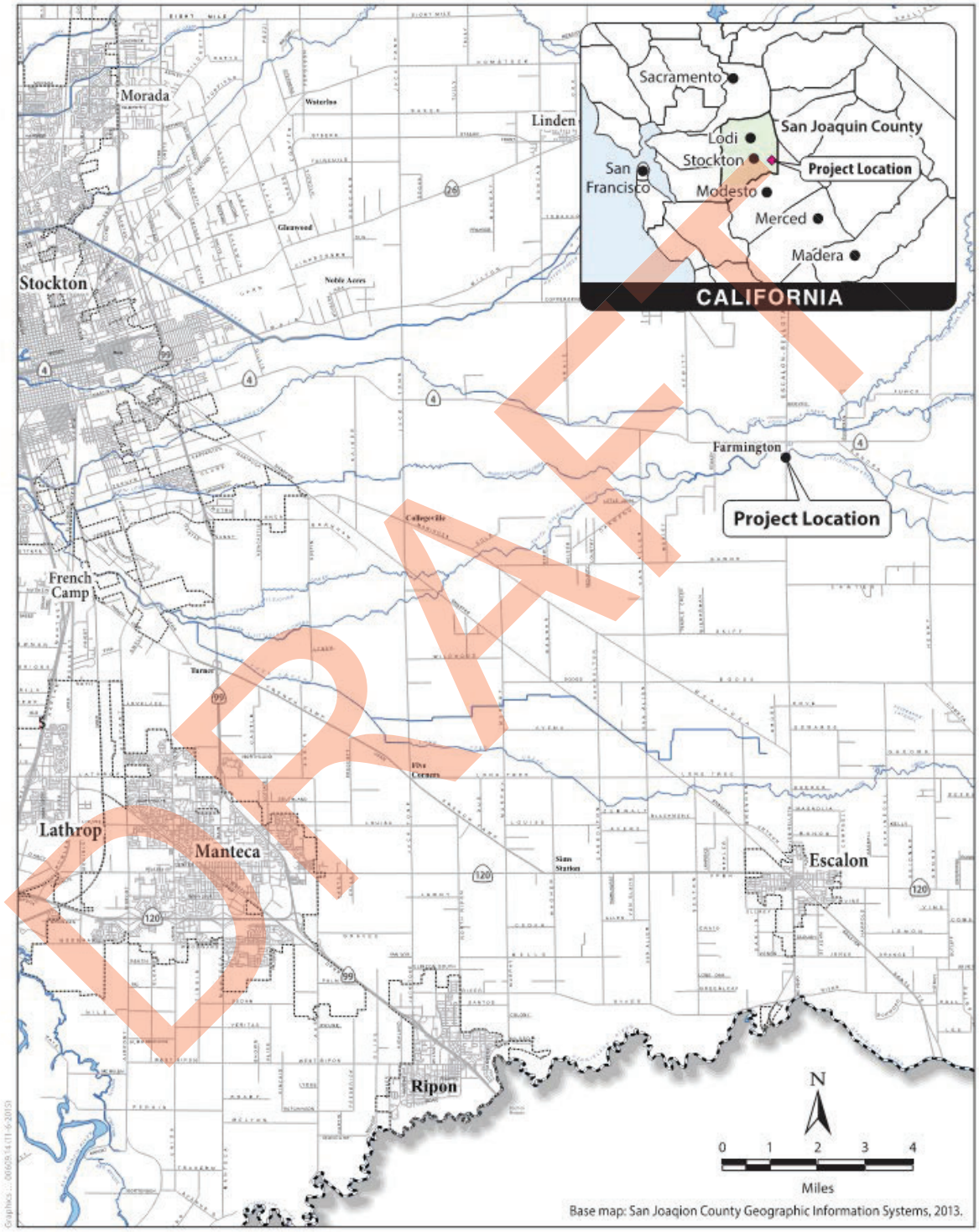

Figure 1
Project Vicinity

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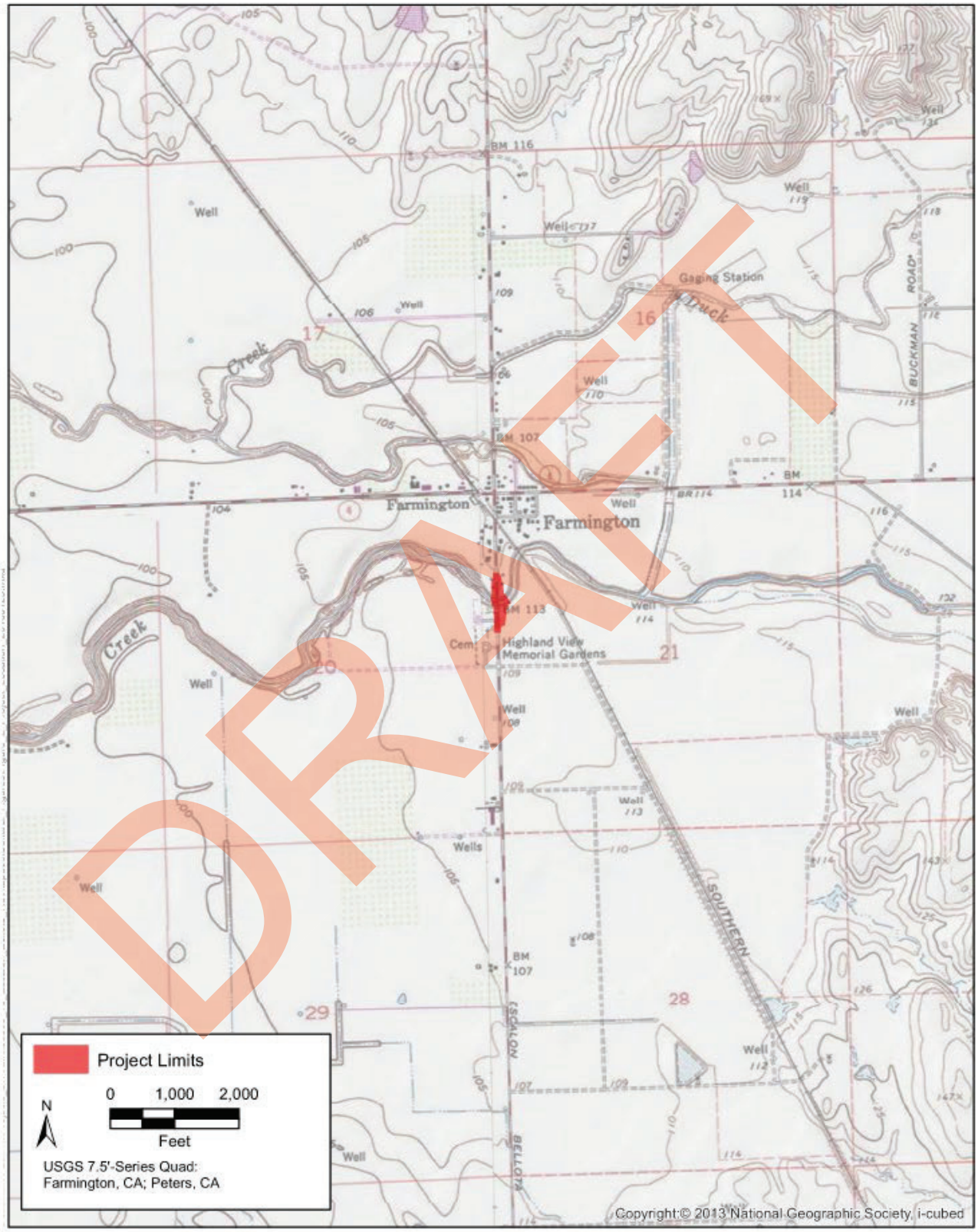

Figure 2 - Project Location
Escalon-Bellota Bridge Replacement Project
29C-0038 BRLS 5929 (238)

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
NOTICE TO BIDDERS

In accordance with the plans and specifications therefor, the County of San Joaquin provides the following notice for the Escalon-Bellota Road Over Littlejohns Creek Bridge Replacement Project, Federal Aid Project No. BRLS-5929(238).

Bids will be received electronically by the Department of Public Works (Department) via the BidExpress website (www.bidexpress.com), **until 1:30 p.m. on the #st/th day of Month 2025.** The Department will open and publicly read the bids at the Department's office and via webcast at www.youtube.com/channel/UC6cc1m_5WvN283Ix6DV_GZA, immediately after the specified closing time for the above-mentioned project.

The work is located south of the town of Farmington at the crossing of Escalon-Bellota Road over Littlejohns Creek in eastern San Joaquin County.

The work, in general, consists of removing and replacing the existing bridge and roadway approaches.

To bid, all bidders must be registered and create a Digital ID with Bid Express, found at www.bidexpress.com. The bid forms found at that website may only be used to submit an electronic bid. **Paper bids will not be accepted**. Please allow at least five (5) business days to complete the electronic bidding registration process for the first time. It is highly recommended that a Digital ID be active 48 hours in advance of submitting an electronic bid. All costs associated with obtaining a Digital ID and submitting a bid using Bid Express is the sole responsibility of the bidder.

The specifications and plans (Contract Documents) will be available at www.bidexpress.com. Any addenda issued for this project will also be available at this website. A link to the Bid Express Solicitation Page can be obtained at www.bidexpress.com/businesses/23724/home?agency=true. Only one bid per bidder will be accepted.

Bids are required for the entire work described herein.

A bid security of 10% is required from all bidders. The bid security must be in the form of cash, certified or cashier's check, electronic bond (eBond), or a bid bond in favor of the Department. Bid Security other than electronic bond must be received by the Department prior to the bid opening closing time specified above. A payment bond and a performance bond each 100% of the value of the contract are required from the successful bidder.

Bidders are advised that, as required by Federal law, the County of San Joaquin is implementing Disadvantaged Business Enterprise requirements for all Disadvantaged Business Enterprises (DBE). Section 2, "Bidding," under subsection 2-1.12 titled

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"Disadvantaged Business Enterprises" and Section 5, "Control of Work," under subsection 5-1.13B titled "Disadvantaged Business Enterprises" cover the DBE requirements.

The DBE Contract goal is **11%** percent.

A remote pre-bid meeting (non-mandatory) for this project is scheduled for **Month Day, 2026,** at **1:30 p.m**. The purpose of the meeting is to inform bidders of project requirements and subcontractors of subcontracting and material supply opportunities. Bidders can join the non-mandatory meeting via a County-hosted conference call via Microsoft Teams Meeting link at https://tinyurl.com/SJC-PREBID or dialing 1-209-645-4071 (Enter Conference ID: **743 118 613#**). All pre-bid handout items are available on www.bidexpress.com.

This contract is subject to State contract nondiscrimination and compliance requirements pursuant to Government Code, Section 12990. The contractor, sub-recipient, or subcontractor must comply with federal nondiscrimination requirements pursuant to Section 49 CFR 26.

Inquiries or questions based on alleged patent ambiguity of the plans, specifications or estimate must be communicated as a bidder inquiry prior to bid opening. Any such inquiries or questions, submitted after bid opening, will not be treated as a bid protest.

Submit all bidder inquires directly through the Department's solicitation page under the section titled "Q&A." All responses to bidder inquires and addenda will be available at www.bidexpress.com. It is each bidder's responsibility to check the website for these documents.

This project is subject to the "Buy America" provisions of the Surface Transportation Assistance Act of 1982 as amended by the Intermodal Surface Transportation Efficiency Act of 1991.

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BID ITEM LIST

PROJECT: **ESCALON-BELLOTA ROAD OVER LITTLEJOHNS CREEK BRIDGE REPLACEMENT BRIDGE NO. 29C-476,** Federal Aid Project No. BRLS-5929(238)

ITEM NO.	ITEM CODE	ITEM NAME	UNIT OF MEASURE	ESTIMATED QUANTITY
1	066595	WATER POLLUTION CONTROL MAINTENANCE	LS	1
2	066597	STORMWATER SAMPLING AND ANALYSIS	LS	1
3	070030	LEAD COMPLIANCE PLAN	LS	1
4	074019	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	1
5	120090	CONSTRUCTION AREA SIGNS	LS	1
6	120120	TYPE III BARRICADE	EA	6
7	120149	TEMPORARY PAVEMENT MARKING (PAINT)	SQFT	1510
8	129000	TEMPORARY RAILING (TYPE K)	LF	164
9	130100	JOB SITE MANAGEMENT	LS	1
10	130310	RAIN EVENT ACTION PLAN	EA	4
11	130320	STORM WATER SAMPLING AND ANALYSIS DAY	EA	1
12	130330	STORMWATER ANNUAL REPORT	EA	1
13	130710	TEMPORARY CONSTRUCTION ENTRANCE	EA	2
14	130730	STREET SWEEPING	LS	1
15	130900	TEMPORARY CONCRETE WASHOUT	EA	2
16	140003	ASBESTOS COMPLIANCE PLAN	LS	1
17	141101	REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	1066
18	141120	TREATED WOOD WASTE	LB	1900
19	146002	CONTRACTOR-SUPPLIED BIOLOGIST	LS	1
20	170103	CLEARING AND GRUBBING	LS	1
21	190101	ROADWAY EXCAVATION	CY	1389
22	194001	DITCH EXCAVATION	CY	10

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23	198010	IMPORT BORROW (CY)	CY	1330
24	210212	DRY SEED (SQFT)	SQFT	11600
25	210270	ROLLED EROSION CONTROL PRODUCT (NETTING)	SQFT	11210
26	210610	COMPOST	CY	10
27	260203	CLASS 2 AGGREGATE BASE	CY	1265
28	390132	HOT MIX ASPHALT (TYPE A)	TON	778
29	394074	PLACE HOT MIX ASPHALT DIKE (TYPE C)	LF	283
30	398100	REMOVE ASPHALT CONCRETE DIKE	LF	522
31 (F)	510094	STRUCTURAL CONCRETE, DRAINAGE INLET	CY	7
32 (F)	520101	BAR REINFORCING STEEL	LB	839
33	665010	12" CORRUGATED STEEL PIPE	LF	175
34	710126	REMOVE OVERSIDE DRAIN	EA	1
35	710132	REMOVE CULVERT	LF	70
36 (F)	721015	ROCK SLOPE PROTECTION (LIGHT, METHOD B)	CY	186
37	729011	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	SQYD	223
38	800051	FENCE (TYPE WM, METAL POST)	LF	272
39	803040	REMOVE FENCE (TYPE WM)	LF	272
40	803060	REMOVE GATE	EA	1
41	803170A	RELOCATE FENCE	LS	1
42	801110	4' WIREMESH GATE	EA	1
43	810230	PAVEMENT MARKER (RETROREFLECTIVE)	EA	41
44	820134	OBJECT MARKER (TYPE P)	EA	4
45	820220	REMOVE MARKER	EA	3
46	820510	RESET ROADSIDE SIGN (ONE POST)	EA	1
47	820590	RELOCATE ROADSIDE SIGN ONE-POST	EA	1
48	832007	MIDWEST GUARDRAIL SYSTEM (WOOD POST)	LF	13
49	832070	VEGETATION CONTROL (MINOR CONCRETE)	SQYD	79

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50	839543	TRANSITION RAILING (TYPE WB-31)	EA	2
51	839584	ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA	2
52	839752	REMOVE GUARDRAIL	LF	71
53	840505	6" THERMOPLASTIC TRAFFIC STRIPE	LF	1906
54	840515	THERMOPLASTIC PAVEMENT MARKING	SQFT	17
55	840531	6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 18-12)	LF	226
56	141101	REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	1070
57	141101A	REMOVE WHITE PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	533
58	129110A	TEMPORARY ALTERNATIVE CRASH CUSHION (NARROW)	EA	4
59	839600A	ALTERNATIVE CRASH CUSHION (NARROW)	EA	2
60		TEMPORARY DETOUR BRIDGE	LS	1
61 (F)	192003	STRUCTURE EXCAVATION (BRIDGE)	CY	257
62 (F)	193003	STRUCTURE BACKFILL (BRIDGE)	CY	174
63	490780	FURNISH PILING (CLASS 200)	LF	1273
64	490781	DRIVE PILE (CLASS 200)	EA	28
65	4907X0	FURNISH PILING (24" OCTAGONAL PC/PS CONCRETE)	LF	481
66	4907X1	DRIVE PILE (24" OCTAGONAL PC/PS CONCRETE)	EA	7
67	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	1
68 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	47
69 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	CY	107
70 (F)	510054	STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	CY	301
71	519088	JOINT SEAL (MR 1")	LF	72
72 (F)	520102	BAR REINFORCING STEEL (BRIDGE)	LB	70637
73	600097	BRIDGE REMOVAL	LS	1

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74 (F)	839744	CONCRETE BARRIER TYPE 836 (MODIFIED)	LF	298
75 (F)	833089	TUBULAR BICYCLE RAILING	LF	292

(F) Denotes Final Pay Item

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The Contractor must possess a **Class A or Class C-12** license at the time this contract is awarded.

A contractor or subcontractor will not be qualified to bid on, be listed in a bid, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.

The County of San Joaquin, hereby notifies all Bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, sex or national origin in consideration for an award.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

Pursuant to Section 1773 of the Labor Code, the general prevailing wage rates in the County in which the work is to be done have been determined by the Director of the California Department of Industrial Relations. These wages are set forth in the General Prevailing Wage Rates for this project are available from the California Department of Industrial Relations' Internet web site at http://www.dir.ca.gov/oprl/DPreWageDetermination.htm. The Federal minimum wage rates for this project as predetermined by the United States Secretary of Labor are available from the Department of Labor's internet web site at https://sam.gov/. Addenda to modify the Federal minimum wage rates, if necessary, will be issued to holders of "Bid and Contract" books. Future effective general prevailing wage rates, which have been predetermined and are on file with the California Department of Industrial Relations are referenced but not printed in the general prevailing wage rates.

Attention is directed to the Federal minimum wage requirements in Section 7-1.02K(2),"Wages," of this book. If there is a difference between the minimum wage rates predetermined by the Secretary of Labor and the general prevailing wage rates determined by the Director of the California Department of Industrial Relations for similar classifications of labor, the Contractor and subcontractors will pay not less than the higher wage rate. The Department will not accept lower State wage rates not specifically included in the Federal minimum wage determinations. This includes "helper" (or other classifications based on hours of experience) or any other classification not appearing in the Federal wage determinations. Where Federal wage determinations do not contain the State wage rate determination otherwise available for use by the Contractor and subcontractors, the Contractor and subcontractors will pay not less than the Federal minimum wage rate which most closely approximates the duties of the employees in question.

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The U.S. Department of Transportation (DOT) provides a toll-free hotline to report bid rigging activities. Use the hotline to report bid rigging, bidder collusion, and other fraudulent activities. The hotline number is (800) 424-9071. The service is available 24 hours, 7 days a week, and is confidential and anonymous. The hotline is part of the DOT's effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General.

The Board reserves the right to reject any or all bids and further reserves the right to waive minor irregularities in the bids.

Date Enter Advertising Date

COUNTY OF SAN JOAQUIN,
a political subdivision of
the State of California

By: CHARLES WINN
Chairman of the Board of Supervisors

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COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

1 GENERAL

1-1.01 GENERAL, add:

The work embraced herein must be done in accordance with the Department of Transportation Standard Specifications dated 2018, hereinafter referred to as the Standard Specifications, and the Department of Transportation Standard Plans dated 2018, hereinafter referred to as the Standard Plans, insofar as the same may apply and in accordance with the following special provisions.

In case of conflict between the Standard Specifications and these special provisions, the Special Provisions must take precedence over and be used in lieu of such conflicting portions.

Revised Standard Specifications set forth in these special provisions must be considered as part of the Standard Specifications for the purposes set forth in Section 5-1.02, "Contract Components."

1-1.05 REFERENCES, replace last paragraph with:

Where in the Standard Specifications, special provisions, Notice to Bidders, bid, contract or other contract documents, the following terms are revised, added or used, the intent and meaning must be interpreted as follows:

Attorney General	County Counsel of San Joaquin
State, or County	County of San Joaquin
Department	County of San Joaquin
Director	Board of Supervisors, County of San Joaquin
District	County of San Joaquin
Department of Transportation State of California	Department of Public Works County of San Joaquin
Engineer and Deputy Director Transportation Engineering	Director of Public Works, County of San Joaquin acting either directly or through properly authorized agent and consultants

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1-1.06 ABBREVIATIONS, add the following definitions to Abbreviation Table:

ASTM	American Society for Testing Materials
CFR	Code of Regulations
CONT	Contract
NTP	Notice to Proceed
QA	Quality Assurance
QC	Quality Control

1-1.07 DEFINITIONS

1-1.07B Glossary, revise, add or use the definitions of this section with the following:

Agency: County of San Joaquin

Bid Item List: List of bid items and the associated quantities. The verified Bid Item List with verified prices. The Contract Proposal of Low Bidder is the verified Bid Item List. After Contract award, interpret reference to the Bid Item List as a reference to the verified Bid Item List.

Board of Supervisors: Board of Supervisors of San Joaquin County, State of California.

California Test: Caltrans-developed test for determining work quality. For California Tests, go to the METS website.

Caltrans: California Department of Transportation as defined in the State & Highway Code Section 20 and authorized in State & Highway Code Section 90, and its authorized representatives.

Contract Documents: The Contract Documents consist of: Notice to Bidders, the prevailing rate of per diem wage rates as determined by the California Department of Industrial Relations, the accepted Bid, including, Bid Item List, Non-Collusion Affidavit, Equal Employment Opportunity Certification, Subcontractor List, Bidder's List of subcontractor (DBE and Non-DBE), Construction Contract DBE Commitment (Exhibit 15-G), Proposer/Contractor Good Faith Efforts (Exhibit 15-H), Bidder's List of Subcontractor (DBE and Non-DBE) (Exhibit 12-B), Bidder DBE Trucking Information Form, Form FHWA -1273, Bid Security or Bid Bond, this Contract Agreement, Workers Compensation Certificate, Performance Bond, Labor and Materials Bond, Notice of Award, Notice of Completion, Special Provisions, California 2018 Standard Specifications, California Labor Surcharge and Equipment Rental Rates, Plans, any issued Addenda, Change Orders, and any other applicable documents not listed including modifications incorporated in these documents.

County: County of San Joaquin, a political subdivision of the State of California.

Engineer or Office Engineer: San Joaquin County Director of Public Works, acting either directly or through properly authorized agents, and such agents acting within the scope of

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the particular duties delegated to them.

Improvement Standards: Improvement Standards of County of San Joaquin, Department of Public Works.

Notice to Contractors: References to Notice to Contractors or Notice to Bidders are the same documents.

Purchasing Agent: The Purchasing Manager, of County, acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties delegated to them.

Submittal: When a submittal is identified to be made to METS or to OSD, submit the items to the Engineer unless otherwise directed.

1-1.08 DISTRICTS, delete.

1-1.10 PAVEMENT CLIMATE REGIONS, delete.

1-1.11 WEBSITES, ADDRESSES, AND TELEPHONE NUMBERS, replace the "Website, Address, and Telephone Number" of the Office Engineer in the table with:

Reference or agency or department unit/Name	Website	Address	Telephone No.
Office Engineer	www.bidexpress.com	DESIGN ENGINEER COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS 1810 EAST HAZELTON AVENUE STOCKTON, CA 95205	(209) 468-3000

1-1.12 MISCELLANY, replace section with:

Make checks and bonds payable to the "County of San Joaquin."

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2 BIDDING

2-1.04 PREBID OUTREACH MEETING, replace section with:

Prebid meeting information is shown on the Notice to Bidders.

Replace **"2.1.05 RESERVED"** with:

2-1.05 CONFLICT OF INTEREST

In conformance with Public Contract Code Section 7106, a Noncollusion Affidavit is included in the bid documents. Signing the bid shall also constitute signature of the Noncollusion Affidavit.

2-1.06 BID DOCUMENTS

2-1.06A General, replace section with:

The State Standard Specifications and State Standard Plans may be viewed at the Caltrans' website and may be purchased at the Publication Distribution Unit.

Bids and copies of the Plans and Specifications will be available at the Department of Public Works' Solicitation Page at Bid Express, found at www.bidexpress.com/businesses/23724/home?agency=true.

The "Specifications" include the special provisions, Notice to Bidders, bid and contract.

2-1.06B Supplemental Project Information, replace paragraph 3 through 8 with:

The following supplemental Project Information, will be available at www.bidexpress.com.

Supplemental Project Information

Means	Description
Included in the *Information Handout*	1. Foundation Report 2. Bridge Design Hydraulic Study Report 3. National Marine Fisheries Service Letter of Concurrence 4. United States Fish and Wildlife Service Biological Opinion 5. 401 Water Quality Certification 6. 404 United States Army Corps of Engineers Nationwide Permit 7. 1602 California Department of Fish and Wildlife Lake and Streambed Alteration Agreement 8. Central Valley Flood Protection Board Encroachment Permit 9. CEQA IS/MND 10. NEPA NES and CE
Available as specified in the *Standard Specifications*	Bridge As-Built Drawings
Included with the project plans	Log of Test Borings

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2-1.10 SUBCONTRACTOR LIST, replace item 4 of the list in paragraph 2 with:

4. Portion of work it will perform. Show the portion of the work by:
    4.1 Bid Item Number(s) for the subcontracted work
    4.2 Description of subcontracted work
    4.3 Dollar amount of subcontracted work

2-1.12 DISADVANTAGED BUSINESS ENTERPRISES

2-1.12A General, replace paragraph 2 with:

Under 49 CFR 26.13(b):

The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR 26 in the award and administration of federal-aid contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

(1) Withholding monthly progress payments;
(2) Assessing sanctions;
(3) Liquidated damages; and/or
(4) Disqualifying the contractor from future bidding as non-responsible.

2-1.12A General, add after paragraph 3:

The contractor, subrecipient or subcontractor shall take necessary and reasonable steps to ensure that DBEs have opportunity to participate in the contract (49 CFR 26). To ensure equal participation of DBEs provided in 49 CFR 26.5, the Department shows a contract goal for DBEs. The prime contractor shall make work available to DBEs and select work parts consistent with available DBE subcontractors and suppliers.

The prime contractor shall meet the DBE goal shown elsewhere in these special provisions or demonstrate that they made adequate good faith efforts to meet this goal.

It is the prime contractor's responsibility to verify that at date of bid opening the DBE firm is certified as a DBE by using the California Unified Certification Program (CUCP) database and possesses the most specific available North American Industry Classification System (NAICS) codes and work code applicable to the type of work the firm will perform on the contract. Additionally, the prime contractor is responsible to document the record by printing out the California Unified Certification Program (CUCP) data for each DBE firm. A list of DBEs certified by the CUCP can be found at https://dot.ca.gov/programs/civil-rights/dbe-search.

2-1.12B DISADVANTAGED BUSINESS ENTERPRISE GOAL

2-1.12B(1) General, replace paragraphs 7 through 9 with**:**

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All DBE participation will count toward the California Department of Transportation's federally mandated statewide overall DBE goal.

Credit for materials or supplies the prime contractor purchases from DBEs counts towards the goal in the following manner:

1. 100 percent counts if the materials or supplies are obtained from a DBE manufacturer.
2. 60 percent counts if the materials or supplies are obtained from a DBE regular dealer.
3. Only fees, commissions, and charges for assistance in the procurement and delivery of materials or supplies count if obtained from a DBE that is neither a manufacturer nor regular dealer. 49 CFR 26.55 defines "manufacturer" and "regular dealer."

The prime contractor receives credit towards the goal if they employ a DBE trucking company that performs a commercially useful function as defined in 49 CFR 26.55(d)(1) as follows:

The DBE must be responsible for the management and supervision of the entire trucking operation for which it is responsible on a particular contract, and there cannot be a contrived arrangement for the purpose of meeting DBE goals.

The DBE must itself own and operate at least one fully licensed, insured, and operational truck used on the contract.

The DBE receives credit for the total value of the transportation services it provides on the Contract using trucks it owns, insures, and operates using drivers it employs.

The DBE may lease trucks from another DBE firm, including an owner-operator who is certified as a DBE. The DBE who leases trucks from another DBE receives credit for the total value of the transportation services the lessee DBE provides on the Contract.

The DBE may lease trucks without drivers from a non-DBE truck leasing company. If the DBE leases trucks from a non-DBE truck leasing company and uses its own employees as drivers, it is entitled to credit for the total value of these hauling services.

A lease must indicate that the DBE has exclusive use of and control over the truck. This does not preclude the leased truck from working for others during the term of the lease with the consent of the DBE, so long as the lease gives the DBE absolute priority for use of the leased truck. Leased trucks must display the name and identification number of the DBE. [49 CFR 26.55(d)]

2-1.12B(2) DBE Commitment Submittal, replace paragraph 2 with:

Submit:

- *Construction Contract DBE Commitment (Exhibit 15-G);*
- *Proposer/Contractor Good Faith Efforts (Exhibit 15-H);*
- *Bidder's List of Subcontractor (DBE and Non-DBE) (Exhibit 12-B)*; and
- *Bidder DBE Trucking Information Form*.

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DBE Commitment may be submitted with the bid, using Bid Express at https://www.bidexpress.com, on or before the date and closing time specified in the Notice to Bidders.

The bidder shall complete and sign Exhibit 15-G included in the contract documents regardless of whether DBE participation is reported. The bidder shall provide written confirmation from each DBE that the DBE is participating in the Contract. A copy of a DBE's quote serves as written confirmation.

If DBE Commitment is not submitted with the bid, all bidders must complete and submit the DBE paper documents to the Office Engineer within 5 calendar days after the bid opening. If the bidder does not submit the DBE Commitment form within the specified time, the Department will find the bidder's bid nonresponsive.

2-1.15 DISABLED VETERAN BUSINESS ENTERPRISES, delete.

2-1.18 SMALL BUSINESS AND NON-SMALL BUSINESS SUBCONTRACTOR PREFERENCES, delete.

2-1.27 CALIFORNIA COMPANIES, delete.

2-1.31 OPT OUT OF PAYMENT ADJUSTMENTS FOR PRICE INDEX FLUCTUATIONS, delete.

2-1.33 BID DOCUMENT COMPLETION AND SUBMITTAL

2-1.33A General, replace section with:

Complete and submit the bids electronically under the Department of Public Works' Solicitation Page at the BidExpress website, found at www.bidexpress.com/businesses/23724/home?agency=true.

To bid electronically, all bidders must be registered and create a Digital ID with Bid Express. Please allow at least five (5) business days to complete the electronic bidding registration process for the first time. It is highly recommended that a Digital ID be active 48 hours in advance of submitting an electronic bid.

Your authorized digital signature is your confirmation of and agreement to all certifications and statements contained in the Bid. On forms and certifications that you submit through the electronic bidding service, you agree that each form and certification where a signature is required is deemed as having your signature.

Failure to submit the forms and information as specified may result in a nonresponsive bid.

2-1.33B Bid Form Submittal Schedules

2-1.33B(1) General, replace sentence 1 of paragraph 1 with:

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Bid forms are included in the advertised project Plans and Specifications and are specific to this contract.

2-1.33B(2)(b)(ii) Non-Informal-Bid Contract, replace the table titled "Bid Form Submittal Schedule for a Non-Informal Bid Federal-Aid Contract with a DBE Goal" with:

Bid Form Submittal Schedule for a Non-Informal Bid Federal-Aid Contract with a DBE Goal

Form	Submittal deadline
Bid to the Department	Time of bid except for the public works contractor registration number
DBE Commitment Submittal	No later than 4 p.m. on the 5th calendar day after bid opening[a]

[a]If the last day for submitting the bid form falls on a Saturday or holiday, it may be submitted on the next business day with the same effect as if it had been submitted on the day specified.

2-1.34 BIDDER'S SECURITY, replace section with:

All bids must be accompanied by cash, a certified check, cashier's check, electronic bond (eBond), or bid bond of a corporate surety made payable to the County of San Joaquin, for a sum of at least 10 percent of the amount of bid. A hard copy bid bond must be signed by both principal and surety with each signature acknowledged before a notary public. The bid bond must also contain the project name and the name, address and telephone number of the local agent of the surety bonding insurance company. Such guarantees must be forfeited to said County should the bidder to whom the contract is awarded fails to enter into a contract.

Electronic bidder's bond by an admitted surety insurer submitted using an electronic registry service approved by the Department is available for submission with bid.

Bid security other than electronic bidder's bond must be received by the Department of Public Works prior to the bid opening date and closing time specified in the Notice to Bidders. The envelope containing Bid Security should be clearly marked on the outside with "Bid Documents for (Project Name)."

Replace "**2-1.37 RESERVED**" with:

2-1.37 BID SUBMITTAL

All bids must be submitted electronically using Bid Express, www.bidexpress.com, on or before the date and closing time specified in the "Notice to Bidders."

No bid must be valid unless signed by the person making the bid. If the party is an individual, the name must be signed by the individual; if the party is a partnership, the name of the partnership must be given and signed by one of the partners; if the name is a corporation, the bid should be signed by the corporation's properly authorized officer or officers. The person signing the bid must also be registered to the Digital ID that submits the bid through the electronic bidding service.

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Only one bid per bidder will be accepted.

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BID TO THE BOARD OF SUPERVISORS
COUNTY OF SAN JOAQUIN

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TO THE BOARD OF SUPERVISORS, COUNTY OF SAN JOAQUIN:

This bid is submitted for the Escalon-Bellota Road Bridge Over Littlejohns Creek Bridge Replacement Bridge No. 29C-476. All work for which this bid is submitted will be in accordance with the special provisions (including the payment of not less than the State general prevailing wage rates or the Federal minimum wage rates set forth herein), the project plans, including any addenda thereto, the contract annexed hereto, and in accordance with the State of California Department of Transportation Standard Plans, dated 2018, the Standard Specifications, dated 2018, and the Labor Surcharge and Equipment Rental Rates in effect on the date the work is accomplished.

The undersigned, as bidder, declares that the only persons or parties interested in this bid as principals are those named herein; that this bid is made without collusion with any other person, firm or corporation. Undersigned further declares that he has carefully examined the location of the proposed work, the proposed form of contract, and the plans and specifications therefore. If this bid is accepted, he will enter into a written contract contained in the Specifications for the project within ten (10) days after being requested to do so, and will provide all necessary bonds and insurance for the Escalon-Bellota Road Bridge Over Littlejohns Creek Bridge Replacement Bridge No. 29C-476Project Title and that he will take in full payment therefore the following unit prices, to wit:

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BID ITEM LIST

ITEM NO.	ITEM CODE	ITEM NAME	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE (in Figures)	TOTAL (in Figures)
1	66595	WATER POLLUTION CONTROL MAINTENANCE	LS	1		
2	66597	STORMWATER SAMPLING AND ANALYSIS	LS	1		
3	070030	LEAD COMPLIANCE PLAN	LS	1		
4	074019	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	1		
5	120090	CONSTRUCTION AREA SIGNS	LS	1		
6	120120	TYPE III BARRICADE	EA	6		
7	120149	TEMPORARY PAVEMENT MARKING (PAINT)	SQFT	1510		
8	129000	TEMPORARY RAILING (TYPE K)	LF	164		
9	130100	JOB SITE MANAGEMENT	LS	1		
10	130310	RAIN EVENT ACTION PLAN	EA	4		
11	130320	STORM WATER SAMPLING AND ANALYSIS DAY	EA	1		
12	130330	STORMWATER ANNUAL REPORT	EA	1		
13	130710	TEMPORARY CONSTRUCTION ENTRANCE	EA	2		
14	130730	STREET SWEEPING	LS	1		
15	130900	TEMPORARY CONCRETE WASHOUT	EA	2		
16	140003	ASBESTOS COMPLIANCE PLAN	LS	1		
17	141101	REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	1066		
18	141120	TREATED WOOD WASTE	LB	1900		
19	146002	CONTRACTOR-SUPPLIED BIOLOGIST	LS	1		
20	170103	CLEARING AND GRUBBING	LS	1		

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21	190101	ROADWAY EXCAVATION	CY	1389		
22	194001	DITCH EXCAVATION	CY	10		
23	198010	IMPORT BORROW (CY)	CY	1330		
24	210212	DRY SEED (SQFT)	SQFT	11600		
25	210270	ROLLED EROSION CONTROL PRODUCT (NETTING)	SQFT	11210		
26	210610	COMPOST	CY	10		
27	260203	CLASS 2 AGGREGATE BASE	CY	1265		
28	390132	HOT MIX ASPHALT (TYPE A)	TON	778		
29	394074	PLACE HOT MIX ASPHALT DIKE (TYPE C)	LF	283		
30	398100	REMOVE ASPHALT CONCRETE DIKE	LF	522		
31(F)	510094	STRUCTURAL CONCRETE, DRAINAGE INLET	CY	7		
32(F)	520101	BAR REINFORCING STEEL	LB	839		
33	665010	12" CORRUGATED STEEL PIPE	LF	175		
34	710126	REMOVE OVERSIDE DRAIN	EA	1		
35	710132	REMOVE CULVERT	LF	70		
36(F)	721015	ROCK SLOPE PROTECTION (LIGHT, METHOD B)	CY	186		
37	729011	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	SQYD	223		
38	800051	FENCE (TYPE WM, METAL POST)	LF	272		
39	803040	REMOVE FENCE (TYPE WM)	LF	272		
40	803060	REMOVE GATE	EA	1		
41	803170A	RELOCATE FENCE	LS	1		
42	801110	4' WIREMESH GATE	EA	1		
43	810230	PAVEMENT MARKER (RETROREFLECTIVE)	EA	41		

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44	820134	OBJECT MARKER (TYPE P)	EA	4		
45	820220	REMOVE MARKER	EA	3		
46	820510	RESET ROADSIDE SIGN (ONE POST)	EA	1		
47	820590	RELOCATE ROADSIDE SIGN ONE-POST	EA	1		
48	832007	MIDWEST GUARDRAIL SYSTEM (WOOD POST)	LF	13		
49	832070	VEGETATION CONTROL (MINOR CONCRETE)	SQYD	79		
50	839543	TRANSITION RAILING (TYPE WB-31)	EA	2		
51	839584	ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA	2		
52	839752	REMOVE GUARDRAIL	LF	71		
53	840505	6" THERMOPLASTIC TRAFFIC STRIPE	LF	1906		
54	840515	THERMOPLASTIC PAVEMENT MARKING	SQFT	17		
55	840531	6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 18-12)	LF	226		
56	141101	REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	1070		
57	141101A	REMOVE WHITE PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	533		
58	129110A	TEMPORARY ALTERNATIVE CRASH CUSHION (NARROW)	EA	4		
59	839600A	ALTERNATIVE CRASH CUSHION (NARROW)	EA	2		
60(F)		TEMPORARY DETOUR BRIDGE	LS	1		
61(F)	192003	STRUCTURE EXCAVATION (BRIDGE)	CY	257		
62	193003	STRUCTURE BACKFILL (BRIDGE)	CY	174		
63	490780	FURNISH PILING (CLASS 200)	LF	1273		
64	490781	DRIVE PILE (CLASS 200)	EA	28		
65	4907X0	FURNISH PILING (24" OCTAGONAL PC/PS CONCRETE)	LF	481		

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66	4907X1	DRIVE PILE (24" OCTAGONAL PC/PS CONCRETE)	EA	7		
67	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	1		
68(F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	47		
69(F)	510053	STRUCTURAL CONCRETE, BRIDGE	CY	107		
70(F)	510054	STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	CY	301		
71	519088	JOINT SEAL (MR 1")	LF	72		
72(F)	520102	BAR REINFORCING STEEL (BRIDGE)	LB	70637		
73	600097	BRIDGE REMOVAL	LS	1		
74(F)	839744	CONCRETE BARRIER TYPE 836 (MODIFIED)	LF	298		
75(F)	833089	TUBULAR BICYCLE RAILING	LF	292		

Total $ _____.

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PUBLIC CONTRACT CODE SECTION 10162 QUESTIONNAIRE

In conformance with Public Contract Code Section 10162, the bidder must complete, under penalty of perjury, the following questionnaire:

Has the bidder, any officer of the bidder, or any employee of the bidder who has a proprietary interest in the bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

Yes _____ No _____

If the answer is yes, explain the circumstances in the following space.

PUBLIC CONTRACT CODE SECTION 10232 STATEMENT

In conformance with Public Contract Code Section 10232, the Contractor, hereby states under penalty of perjury, that no more than one final unappealable finding of contempt of court by a federal court has been issued against the Contractor within the immediately preceding two year period because of the Contractor's failure to comply with an order of a federal court which orders the Contractor to comply with an order of the National Labor Relations Board.

Note: The above Statement and Questionnaire are part of the Bid. Signing this Bid on the signature portion thereof must also constitute signature of this Statement and Questionnaire.

Bidders are cautioned that making a false certification may subject the certified to criminal prosecution.

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NONCOLLUSION AFFIDAVIT
(Title 23 United States Code Section 112 and
Public Contract Code Section 7106)

In accordance with Title 23 United States Code Section 112 and Public Contract Code Section 7106 the bidder declares that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone must refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Note: The above Noncollusion Affidavit is part of the Bid. Signing this Bid on the signature portion thereof must also constitute signature of this Noncollusion Affidavit.
Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

BUSINESS AND PROFESSIONS CODES SECTION 7028.15 STATEMENT

In conformance with Business and Professions Code Section 7028.15, the Contractor, hereby states that all representations made herein are made under penalty of perjury.

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TITLE 49, CODE OF FEDERAL REGULATIONS, PART 29

The bidder, under penalty of perjury, certifies that, except as noted below, he/she or any other person associated therewith in the capacity of owner, partner, director, officer, and manager:

- Is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any federal agency;
- Has not been suspended, debarred, voluntarily excluded or determined ineligible by any federal agency within the past 3 years;
- Does not have a proposed debarment pending; and
- Has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

If there are any exceptions to this certification, insert the exceptions in the following space.

Exceptions will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any exception noted above, indicate below to whom it applies, initiating agency, and dates of action.

Notes: Providing false information may result in criminal prosecution or administrative sanctions.

The above certification is part of the Bid. Signing this Bid on the signature portion thereof must also constitute signature of this Certification.

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Non-Lobbying
Certification for Federal Aid Contracts

The prospective participant certifies, by signing and submitting this bid, to the best of his or her knowledge and belief, that:

(l) No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant, loan, or cooperative agreement, the undersigned must complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification must be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

The prospective participant also agrees by submitting his or her bid that he or she must require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such sub recipients must certify and disclose accordingly.

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EXHIBIT 10-Q DISCLOSURE OF LOBBYING ACTIVITIES

COMPLETE THIS FORM TO DISCLOSE LOBBYING ACTIVITIES PURSUANT TO 31 U.S.C. 1352

1. Type of Federal Action:

☐ a. contract
b. grant
c. cooperative agreement
d. loan
e. loan guarantee
f. loan insurance

2. Status of Federal Action:

☐ a. bid/offer/application
b. initial award
c. post-award

3. Report Type:

☐ a. initial
b. material change

For Material Change Only:
year ____ quarter _____
date of last report _____

4. Name and Address of Reporting Entity

☐ Prime ☐ Subawardee
Tier _____, if known

Congressional District, if known

5. If Reporting Entity in No. 4 is Subawardee, Enter Name and Address of Prime:

Congressional District, if known

6. Federal Department/Agency:

7. Federal Program Name/Description:

CFDA Number, if applicable _____

8. Federal Action Number, if known:

9. Award Amount, if known:

10. Name and Address of Lobby Entity
(If individual, last name, first name, MI)

11. Individuals Performing Services (including address if different from No. 10a)
(last name, first name, MI)

(attach Continuation Sheet(s) if necessary)

12. Amount of Payment (check all that apply)

$ _____ ☐ actual ☐ planned

13. Form of Payment (check all that apply):

☐ a. cash
☐ b. in-kind; specify: nature _____
Value _____

14. Type of Payment (check all that apply)

☐ a. retainer
☐ b. one-time fee
☐ c. commission
☐ d. contingent fee
☐ e deferred
☐ f. other, specify _____

15. Brief Description of Services Performed or to be performed and Date(s) of Service, including officer(s), employee(s), or member(s) contacted, for Payment Indicated in Item 11:

(attach Continuation Sheet(s) if necessary)

16. Continuation Sheet(s) attached: **Yes** ☐ **No** ☐

17. Information requested through this form is authorized by Title 31 U.S.C. Section 1352. This disclosure of lobbying reliance was placed by the tier above when his transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to Congress semiannually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

Signature: _____

Print Name: _____

Title: _____

Telephone No.: _____ Date: _____

Authorized for Local Reproduction

Standard Form - LLL

Federal Use Only:

Standard Form LLL Rev. 04-28-06

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Distribution: Orig- Local Agency Project Files

INSTRUCTIONS FOR COMPLETING EXHIBIT 10-Q DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime federal recipient at the initiation or receipt of covered federal action or a material change to previous filing pursuant to title 31 U.S.C. Section 1352. The filing of a form is required for such payment or agreement to make payment to lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress an officer or employee of Congress or an employee of a Member of Congress in connection with a covered federal action. Attach a continuation sheet for additional information if the space on the form is inadequate. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered federal action for which lobbying activity is or has been secured to influence, the outcome of a covered federal action.
2. Identify the status of the covered federal action.
3. Identify the appropriate classification of this report. If this is a follow-up report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last, previously submitted report by this reporting entity for this covered federal action.
4. Enter the full name, address, city, state, and zip code of the reporting entity. Include Congressional District if known. Check the appropriate classification of the reporting entity that designates if it is or expects to be a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the first tier. Subawards include but are not limited to: subcontracts, subgrants, and contract awards under grants.
5. If the organization filing the report in Item 4 checks "Subawardee" then enter the full name, address, city, state, and zip code of the prime federal recipient. Include Congressional District, if known.
6. Enter the name of the federal agency making the award or loan commitment. Include at least one organization level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the federal program name or description for the covered federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans and loan commitments.
8. Enter the most appropriate federal identifying number available for the federal action identification in item 1 (e.g., Request for Proposal (RFP) number, Invitation for Bid (IFB) number, grant announcement number, the contract grant. or loan award number, the application/proposal control number assigned by the federal agency). Include prefixes, e.g., "RFP-DE-90-001."
9. For a covered federal action where there has been an award or loan commitment by the Federal agency, enter the federal amount of the award/loan commitments for the prime entity identified in item 4 or 5.
10. Enter the full name, address, city, state, and zip code of the lobbying entity engaged by the reporting entity identified in Item 4 to influence the covered federal action.
11. Enter the full names of the individual(s) performing services and include full address if different from 10 (a). Enter Last Name, First Name and Middle Initial (MI).
12. Enter the amount of compensation paid or reasonably expected to be paid by the reporting entity (Item 4) to the lobbying entity (Item 10). Indicate whether the payment has been made (actual) or will be made (planned). Check all boxes that apply. If this is a material change report, enter the cumulative amount of payment made or planned to be made.
13. Check all boxes that apply. If payment is made through an in-kind contribution, specify the nature and value of the in-kind payment.
14. Check all boxes that apply. If other, specify nature.
15. Provide a specific and detailed description of the services that the lobbyist has performed or will be expected to perform and the date(s) of any services rendered. Include all preparatory and related activity not just time spent in actual contact with federal officials. Identify the federal officer(s) or employee(s) contacted or the officer(s) employee(s) or Member(s) of Congress that were contacted.
16. Check whether or not a continuation sheet(s) is attached.
17. The certifying official shall sign and date the form, and print his/her name title and telephone number.

Public reporting burden for this collection of information is estimated to average 30-minutes per response, including time for reviewing instruction, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, D.C. 20503. SF-LLL-Instructions Rev. 06-04

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PUBLIC CONTRACT CODE SECTION 10285.1 STATEMENT

In conformance with Public Contract Code Section 10285.1 (Chapter 376, Stats. 1985), the bidder hereby declares under penalty of perjury that the bidder has ____, has not ____ been convicted within the preceding three years of any offenses referred to in that section, including any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or federal antitrust law in connection with the bidding upon, award of, or performance of, any public works contract, as defined in Public Contract Code Section 1101, with any public entity, as defined in Public Contract Code Section 1100, including the Regents of the University of California or the Trustees of the California State University. The term "bidder" is understood to include any partner, member, officer, director, responsible managing officer, or responsible managing employee thereof, as referred to in Section 10285.1.

Note: The bidder must place a check mark after "has" or "has not" in one of the blank spaces provided.

The above Statement is part of the Bid. Signing this Bid on the signature portion thereof must also constitute signature of this Statement.

Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

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(THE BIDDER'S EXECUTION ON THE SIGNATURE PORTION OF THIS PROPOSAL WILL ALSO CONSTITUTE AN ENDORSEMENT AND EXECUTION OF THOSE CERTIFICATIONS WHICH ARE A PART OF THIS BID)

EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATION

The bidder_____, proposed subcontractor _____, hereby certifies that he has_____, has not___, participated in a previous contract or subcontract subject to the equal opportunity clauses, as required by Executive Orders 10925, 11114, or 11246, and that, where required, he has filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filling requirements.

Note: The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor (41 CFR 60-1.7(b) (1)), and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts, which are subject to the equal opportunity clause. Contracts and subcontracts which are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5. (Generally only contracts or subcontracts of $10,000 or under are exempt.)

Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.

Proposed prime contractors and subcontractors who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports should note that 41 CFR 60-1.7(b) (1) prevents the award of contracts and subcontracts unless such contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.

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SUBCONTRACTOR LIST

In accordance with the "Subletting and Subcontracting Fair Practices Act" (Public Contract Code Sections 4100-4114, inclusive) each bidder in their Bid must provide the information requested below on each subcontractor that will perform work or labor or render service for the bidder in excess of one-half of one percent of the total bid or $10,000, whichever is greater.

(If a subcontractor will perform multiple items of work, list each item individually and include required information. Submit additional sheets, if necessary. Example:)

Contractor License #*123456* DIR Registration #: 1000000001 Company: *Striping Subcontractor, Inc.* Address: *123 Main Street, Anywhere, CA* Email Address: *stripingco@yahoo.com*	*16*	*4" Paint Traffic Stripe (1-Coat)*	*$11,875*
	17	*8" Paint Traffic Stripe (1-Coat)*	*$700*
	18	*Paint Pavement Markings (1-Coat)*	*$7,200*

Bidding Firm Name:_____

SUBCONTRACTOR INFORMATION	BID ITEM NUMBER(S)	DESCRIPTION OF WORK	DOLLAR AMOUNT
Contractor License #: *DIR Registration #: Company: Address: Email Address:			
Contractor License # DIR Registration #: Company: Address: Email Address:			
Contractor License #: DIR Registration #: Company: Address: Email Address:			
Contractor License # DIR Registration #: Company: Address: Email Address:			

* Department of Industrial Relations Registration number

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Accompanying this bid is _____
(Cash, Cashier's Check, Certified Check, electronic bond (eBond) or Bidder's Bond)
in an amount equal to at least ten percent (10%) of the total bid, made payable to the County of San Joaquin. If the bid is accepted, said guaranty must be retained by said County until the required contract and bonds are executed, or forfeited to said County if said contract and bonds be not executed.

The names of all persons interested in the foregoing bid as principals are as follows:

If bidder or other interested person is a corporation, state legal name of corporation, also names of the president, secretary, treasurer, and manager thereof; if a copartnership, state true name of firm, also names of all individual copartners composing firm; if bidder of interested person is an individual, state first and last names in full. No bid shall be valid unless signed and electronically submitted by the person making the bid.

_____

_____

_____

By my signature on this bid I certify, under penalty of perjury under the laws of the State of California, that the Business and Professions Code Section 7028.15 representations, foregoing questionnaire and statements of Public Contract Code Sections 10162, 10232 and 10285.1 are true and correct and that the bidder has complied with the requirements of Section 8103 of the Fair Employment and Housing Commission Regulations (Chapter 5, Title 2 of the California Administrative Code). By my signature of this bid I further certify, under penalty of perjury under the laws of the State of California and the United States of America, that the Noncollusion Affidavit required by Title 23 United States Code, Section 112 and Public Contract Code Section 7106; and the Title 49 Code of Federal Regulations, Part 29 Debarment and Suspension Certification are true and correct.

Date:_____ Firm Name:_____
Signature of Bidder:_____ Title:_____
Print Bidder's Name:_____ Email:_____
Business P.O. Box:_____
City, State, Zip:_____
Business Street Address:_____
(Please include even if P.O Box used)
City, State, Zip:_____
Telephone No.: ( ) _____ FAX No.: ( ) _____
Contractor's License No.: _____ Expiration Date:_____
License Classification(s):_____
Department of Industrial Relations Registration No.: _____

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EXHIBIT 15-G CONSTRUCTION CONTRACT DBE COMMITMENT

1. Local Agency: County of San Joaquin 2. Contract DBE Goal: _____

3. Project Description: _____

4. Project Location: _____

5. Bidder's Name: _____ 6. Prime Certified DBE: ☐ 7. Bid Amount: _____

8. Total Dollar Amount for **ALL** Subcontractors: _____ 9. Total Number of **ALL** Subcontractors: _____

10. Bid Item Number	11. Description of Work, Service, or Materials Supplied	12. DBE Certification Number	13. DBE Contact Information (Must be certified on the date bids are opened)	14. DBE Dollar Amount

Local Agency to Complete this Section upon Execution of Award

21. Local Agency Contract Number: _____

22. Federal-Aid Project Number: _____

23. Bid Opening Date: _____

24. Contract Award Date: _____

25. Award Amount: _____

15. TOTAL CLAIMED DBE PARTICIPATION

$

%

Local Agency certifies that all DBE certifications are valid and information on this form is complete and accurate.

26. Local Agency Representative's Signature _____ 27. Date _____

28. Local Agency Representative's Name _____ 29. Phone _____

30. Local Agency Representative's Title _____

IMPORTANT: Identify all DBE firms being claimed for credit, regardless of tier. Names of the First Tier DBE Subcontractors and their respective item(s) of work listed above must be consistent, where applicable with the names and items of the work in the "Subcontractor List" submitted with your bid. Written confirmation of each listed DBE is required.

16. Preparer's Signature _____ 17. Date _____

18. Preparer's Name _____ 19. Phone _____

20. Preparer's Title _____

DISTRIBUTION: 1. Original – Local Agency
2. Copy – Caltrans District Local Assistance Engineer (DLAE). Failure to submit to DLAE within 30 days of contract execution may result in de-obligation of federal funds on contract.
3. Include additional copy with award package.

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ADA Notice: For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

INSTRUCTIONS – CONSTRUCTION CONTRACT DBE COMMITMENT

CONTRACTOR SECTION

1. Local Agency - Enter the name of the local agency that is administering the contract.
2. Contract DBE Goal - Enter the contract DBE goal percentage as it appears on the project advertisement.
3. Project Location - Enter the project location(s) as it appears on the project advertisement.
4. Project Description - Enter the project description as it appears on the project advertisement (Bridge Rehab, Seismic Rehab, Overlay, Widening, etc).
5. Bidder's Name - Enter the contractor's firm name.
6. Prime Certified DBE - Check box if prime contractor is a certified DBE.
7. Bid Amount - Enter the total contract bid dollar amount for the prime contractor.
8. Total Dollar Amount for ALL Subcontractors – Enter the total dollar amount for all subcontracted contractors. SUM = (DBEs + all Non-DBEs). Do not include the prime contractor information in this count.
9. Total number of ALL subcontractors – Enter the total number of all subcontracted contractors. SUM = (DBEs + all Non-DBEs). Do not include the prime contractor information in this count.
10. Bid Item Number - Enter bid item number for work, services, or materials supplied to be provided.
11. Description of Work, Services, or Materials Supplied - Enter description of work, services, or materials to be provided. Indicate all work to be performed by DBEs including work performed by the prime contractor's own forces, if the prime is a DBE. If 100% of the item is not to be performed or furnished by the DBE, describe the exact portion to be performed or furnished by the DBE. See LAPM Chapter 9 to determine how to count the participation of DBE firms.
12. DBE Certification Number - Enter the DBE's Certification Identification Number. All DBEs must be certified on the date bids are opened.
13. DBE Contact Information - Enter the name, address, and phone number of all DBE subcontracted contractors. Also, enter the prime contractor's name and phone number, if the prime is a DBE.
14. DBE Dollar Amount - Enter the subcontracted dollar amount of the work to be performed or service to be provided. Include the prime contractor if the prime is a DBE. See LAPM Chapter 9 for how to count full/partial participation.
15. Total Claimed DBE Participation - $: Enter the total dollar amounts entered in the "DBE Dollar Amount" column. %: Enter the total DBE participation claimed ("Total Claimed DBE Participation Dollars" divided by item "Bid Amount"). If the total % claimed is less than item "Contract DBE Goal," an adequately documented Good Faith Effort (GFE) is required (see Exhibit 15-H DBE Information - Good Faith Efforts of the LAPM).
16. Preparer's Signature - The person completing the DBE commitment form on behalf of the contractor's firm must sign their name.
17. Date - Enter the date the DBE commitment form is signed by the contractor's preparer.
18. Preparer's Name - Enter the name of the person preparing and signing the contractor's DBE commitment form.
19. Phone - Enter the area code and phone number of the person signing the contractor's DBE commitment form.
20. Preparer's Title - Enter the position/title of the person signing the contractor's DBE commitment form.

LOCAL AGENCY SECTION

21. Local Agency Contract Number - Enter the Local Agency contract number or identifier.
22. Federal-Aid Project Number - Enter the Federal-Aid Project Number(s).
23. Bid Opening Date - Enter the date contract bids were opened.
24. Contract Award Date - Enter the date the contract was executed.
25. Award Amount – Enter the contract award amount as stated in the executed contract.
26. Local Agency Representative's Signature - The person completing this section of the form for the Local Agency must sign their name to certify that the information in this and the Contractor Section of this form is complete and accurate.
27. Date - Enter the date the DBE commitment form is signed by the Local Agency Representative.
28. Local Agency Representative's Name - Enter the name of the Local Agency Representative certifying the contractor's DBE commitment form.
29. Phone - Enter the area code and phone number of the person signing the contractor's DBE commitment form.
30. Local Agency Representative Title - Enter the position/title of the Local Agency Representative certifying the contractor's DBE commitment form.

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EXHIBIT 15-H: PROPOSER/CONTRACTOR GOOD FAITH EFFORTS

Federal-aid Project No. _____ Bid Opening Date _____

The County of San Joaquin established a Disadvantaged Business Enterprise (DBE) goal of ___% for this project. The information provided herein shows the required good faith efforts to meet or exceed the DBE contract goal.

Proposers or bidders submit the following information to document their good faith efforts within five (5) calendar days from bid opening. Proposers and bidders are recommended to submit the following information even if the Exhibit 10-O1: Consultant Proposal DBE Commitments or Exhibit 15-G: Construction Contract DBE Commitment indicate that the proposer or bidder has met the DBE goal. This form protects the proposer's or bidder's eligibility for award of the contract if the administering agency determines that the bidder failed to meet the goal for various reasons, e.g., a DBE firm was not certified at bid opening, or the bidder made a mathematical error.

The following items are listed in the Section entitled "Submission of DBE Commitment" of the Special Provisions **please attach additional sheets as needed**:

A. The names and dates of each publication in which a request for DBE participation for this project was placed by the bidder (please attach copies of advertisements or proofs of publication):

Publications	Dates of Advertisement

B. The names and dates of written notices sent to certified DBEs soliciting bids for this project and the dates and methods used for following up initial solicitations to determine with certainty whether the DBEs were interested (please attach copies of solicitations, telephone records, fax confirmations, etc.):

Names of DBEs Solicited	Date of Initial Solicitation	Follow Up Methods and Dates

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C. The items of work made available to DBE firms including those unbundled contract work items into economically feasible units to facilitate DBE participation. It is the bidder's responsibility to demonstrate that sufficient work to facilitate DBE participation in order to meet or exceed the DBE contract goal.

Items of Work	Proposer or Bidder Normally Performs Item (Y/N)	Breakdown of Items	Amount ($)	Percentage Of Contract

D. The names, addresses and phone numbers of rejected DBE firms, the reasons for the bidder's rejection of the DBEs, the firms selected for that work (please attach copies of quotes from the firms involved), and the price difference for each DBE if the selected firm is not a DBE:

Names, addresses and phone numbers of rejected DBEs and the reasons for the bidder's rejection of the DBEs:

_____
_____
_____
_____

Names, addresses and phone numbers of firms selected for the work above:

_____
_____
_____
_____

E. Efforts (e.g. in advertisements and solicitations) made to assist interested DBEs in obtaining information related to the plans, specifications and requirements for the work which was provided to DBEs:

_____
_____
_____
_____

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F. Efforts (e.g. in advertisements and solicitations) made to assist interested DBEs in obtaining bonding, lines of credit or insurance, necessary equipment, supplies, materials, or related assistance or services, excluding supplies and equipment the DBE subcontractor purchases or leases from the prime contractor or its affiliate:

_____
_____
_____
_____

G. The names of agencies, organizations or groups contacted to provide assistance in contacting, recruiting and using DBE firms (please attach copies of requests to agencies and any responses received, i.e., lists, Internet page download, etc.):

Name of Agency/Organization	Method/Date of Contact	Results

H. Any additional data to support a demonstration of good faith efforts:

_____
_____

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(SPECS\2018\FED-B-12c-1\12.3.21)

B-12c-1

Exhibit 12-B Bidder's List of subcontractor (DBE and Non-DBE) - Part 1

As of March 1, 2015 Contractors (and sub-contractors) wishing to bid on public works contracts may be registered with the State Division of Industrial Relations and certified to bid on Public Works contracts. Please register at: https://www.dir.ca.gov/Public-Works/Contractor-Registration.html. The local agency will verify registration of all contractors and subcontractors on public works projects at bid and thereafter annually to assure that yearly registration is maintained throughout the life of the project.

In accordance with Title 49, Section 26.11 of the Code of Federal Regulations, and Section 4104 of the Public Contract Code of the State of California, as amended, the following information is required for each sub-contractor who will perform work amounting to more than one half of one percent (0.5%) of the Total Base Bid or $10,000 (whichever is greater). **Photocopy this form for additional firms.** Federal Project Number: _____

Subcontractor Name and Location	Line Item & Description	Subcontract Amount	Percentage of Bid Item Sub-contracted	Contractor License Number / DIR Reg Number	DBE (Y/N)	DBE Cert Number	Annual Gross Receipts
Name: City, State:							☐ <$1 million ☐ <$5 million ☐ <$10 million ☐ <$15 million Age of Firm: ___ yrs.
Name: City, State:							☐ <$1 million ☐ <$5 million ☐ <$10 million ☐ <$15 million Age of Firm: ___ yrs.
Name: City, State:							☐ <$1 million ☐ <$5 million ☐ <$10 million ☐ <$15 million Age of Firm: ___ yrs.
Name: City, State:							☐ <$1 million ☐ <$5 million ☐ <$10 million ☐ <$15 million Age of Firm: ___ yrs.
Name: City, State:							☐ <$1 million ☐ <$5 million ☐ <$10 million ☐ <$15 million Age of Firm: ___ yrs. ☐ <$1 million ☐ <$5 million ☐ <$10 million ☐ <$15 million Age of Firm: ___ yrs.

Distribution: 1) Original-Local Agency File 2) Copy-DLAE w/ Award Package

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Exhibit 12-B Bidder's List of subcontractor (DBE and Non-DBE) - Part 2

In accordance with Title 49, Section 26 of the Code of Federal Regulations, the Bidder shall list all subcontractor who provided a quote or bid but **were not selected** to participate as a subcontractor on this project. **Photocopy this form for additional firms.** Federal Project Number: _____

Subcontractor Name and Location	Line Item & Description	Subcontract Amount	Percentage of Bid Item Sub-contracted	Contractor License Number / DIR Reg Number	DBE (Y/N)	DBE Cert Number	Annual Gross Receipts
Name: City, State:							☐ <$1 million ☐ <$5 million ☐ <$10 million ☐ <$15 million Age of Firm: ___ yrs.
Name: City, State:							☐ <$1 million ☐ <$5 million ☐ <$10 million ☐ <$15 million Age of Firm: ___ yrs.
Name: City, State:							☐ <$1 million ☐ <$5 million ☐ <$10 million ☐ <$15 million Age of Firm: ___ yrs.
Name: City, State:							☐ <$1 million ☐ <$5 million ☐ <$10 million ☐ <$15 million Age of Firm: ___ yrs.
Name: City, State:							☐ <$1 million ☐ <$5 million ☐ <$10 million ☐ <$15 million Age of Firm: ___ yrs.
Name: City, State:							☐ <$1 million ☐ <$5 million ☐ <$10 million ☐ <$15 million Age of Firm: ___ yrs.

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Distribution: 1) Original-Local Agency File 2) Copy-DLAE w/ Award Package

BIDDER DBE TRUCKING INFORMATION FORM

Project Name:_____ Bidder's Name:_____

_____ _____

Bidders are required to submit this Form with Exhibit 15-G & 12-B only if there is a DBE Trucking commitment

DBE TRUCKING INFORMATION	YES	NO
1. Is the subcontractor(s) listed for DBE Trucking performing 100% of DBE committed work? **Provide list of available fleet[1] and number of drivers.** **If Not 100%, Answer 2.**		
2. Are all other trucking subcontractors Certified DBE Contractors? **List all other subcontractors below. Note if subcontractor is a Certified DBE.**		

Contractor intends to secure trucking from the following sources[2]: (Please Describe)

_____

_____

[1] List Type of Vehicle, Vehicle Number, and California Highway Patrol CA Number
[2] Contractor's attention is directed to Title 49 CFR 26.55(d)

By my signature on this form I certify, that the information on this form is true and correct.

_____ _____ _____
Signature of Bidder Date (Area Code) Telephone Number

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3 CONTRACT AWARD AND EXECUTION

3-1.02 CONSIDERATION OF BIDS

3-1.02A General, add:

When more than one schedule of work to be performed is included, the lowest bid will be the lowest total of the bid prices on the Base Contract and those schedules taken in the order they appear in the bid and added to the Base Contract that are less or equal to a funding amount read publicly prior to the opening of bids. If no bids are less than the stated amount, the lowest bid will be the lowest cost base bid submitted.

A responsive, responsible bidder who submitted the lowest bid as determined by this section will be awarded the contract, if it is awarded. This section does not preclude the local agency from adding or deduction from the contract any of the schedules after the lowest responsible bidder has been determined.

3-1.02B Tied Bids, replace section with:

In the extent that two or more bids are the same and the lowest, the County awards the contract to the bidder with greater DBE participation.

3-1.04 CONTRACT AWARD, replace section with:

Bid protests are to be delivered to the following address: San Joaquin County, Office of County Counsel, 44 N. San Joaquin St., Sixth Floor Suite 679, Stockton, California 95202.

The award of the contract, if it be awarded, will be to the lowest responsive, responsible bidder whose bid complies with all the requirements prescribed. The award must be made within 60 days after bid opening. The Department may extend the award period if the bidder agrees.

3-1.05 CONTRACT BONDS (PUB CONT CODE §§ 10221 AND 10222), replace section with:

A surety bond of one hundred percent (100%) of the contract price will be required of the successful bidder to guarantee the faithful performance of said contract, and also required must be a separate "Labor and Materials" surety bond of one hundred percent (100%) of the contract price and in accordance with the requirements of Section 3247-3252, inclusive of the Civil Code of the State of California. A sample of the required Performance Bond verbiage has been provided with the Contract Forms.

3-1.07 INSURANCE POLICIES, replace section with:

The Contractor and subcontractors will be required to obtain all insurance required under this paragraph and no work will be allowed until such insurance has been approved by the County. Copies of insurance certificates evidencing the

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required coverage must be furnished to the County. Certificates of insurance must indicate that the coverage cannot be reduced or cancelled until thirty days' written notice has been furnished the County.

1. Compensation Insurance: The Contractor must take out and maintain, during the life of this contract, workers' compensation insurance for all of his employees employed at the site of the project and, in case any work is sublet, the Contractor must require the subcontractor similarly to provide workers' compensation insurance for all of the latter's employees. If any class of employees engaged in hazardous work under this contract at the site of the project is not protected under the Workers' Compensation Statute, the Contractor must provide and must cause any subcontractor to provide insurance for the protection of employees engaged in hazardous work.

2. Bodily Injury Liability and Property Damage Liability Insurance: The Contractor must take out and maintain during the life of this contract such bodily injury liability and property damage liability insurance as must protect him from claims for damages for personal injury, including accidental death as well as from claims for property damage, including coverage on property in the care, custody and control of the Contractor which may arise from his operations under this contract, whether such operations by himself or by any subcontractor or by anyone directly or indirectly employed by either of them, and such insurance must be Public Liability Insurance, in an amount no less than $1,000,000 (combined single limit) per occurrence.

The above insurance must be of the broad form coverage type, affording coverage on property in the care, custody and control of the Contractor, and it is specifically required that the exclusions commonly referred to, in the insurance industry, as the "XCU Exclusions" must be deleted from the Contractor's insurance. Adequate proof of insurance in compliance with the above requirements must be furnished to the County. An additional insured endorsement to Contractor's liability insurance policy naming the County, its officers and employees as additional insureds, must be furnished to the County. Notwithstanding the above, Contractor's liability insurance policy must be endorsed as primary insurance.

Contractor will indemnify and defend Owner from all claims, demands, or liability arising out of or encountered in connection with this contract or the prosecution of work under it, whether such claims, demands, or liability are caused by Contractor, Contractor's agents or employees, or subcontractors employed on the project, their agents or employees, or products installed on the project by Contractor or subcontractors, excepting only such injury or harm as may be caused solely and exclusively by Owner's fault or negligence. Such indemnification must extend to claims, demands, or liability for injuries occurring after completion of the project, as well as during the work's progress.

3-1.08 SMALL BUSINESS PARTICPATION REPORT, delete.

3-1.11 PAYEE DATA RECORD, delete.

3-1.18 CONTRACT EXECUTION, replace section with:

The contract must be executed by the successful bidder and must be returned with the following to County:

1. Bonds required in Section 3-1.05
2. Insurance Certificates required in Section 3-1.07
3. Form W-9

Contract and above listed documents must be returned to the Agency so that they are received within 10 days, not including Saturdays, Sundays, and legal holidays, after the bidder has received the contract for execution. Failure to do so must be just cause for forfeiture of the bid guaranty. The executed contract documents must be delivered to the

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following address: San Joaquin County Counsel, 44 N. San Joaquin St., Suite 679, Stockton, California 95202.

A successful bidder must be required to have a current W-9 form on file with the County. If not already on file, the form will be included in the contract documents to be executed by the successful bidder. The form must be completed and returned to the Agency by the successful bidder with the executed contract and contract bonds. A copy of the contract form is included in these special provisions.

3-1.19 BIDDERS' SECURITIES, replace section with:

The bid guaranties accompanying the bids of the three lowest bidders will be retained until the contract has been awarded by the Board of Supervisors, after which all such guaranties, except the first lowest responsible bidder's guaranty, will be returned to the respective bidders whose bids they accompany. The bid guaranty of the first lowest responsible bidder will be retained until the contract documents have been fully executed and filed with the County Recorder's office.

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CONTRACT

This Contract made this ____ day of _____ 20__, by and between the COUNTY OF SAN JOAQUIN, a political subdivision duly organized and existing under the laws of the State of California, hereinafter referred to as "Owner," acting by and through its Board of Supervisors, who has executed and delivered this Contract in said capacity, and not otherwise, and _____, hereinafter referred to as "Contractor."

WITNESSETH

That the Owner and Contractor for the consideration stated herein, covenant and agree as follows:

(1) The Contractor must furnish all labor, materials, tools, equipment, services and transportation, and any and all other expenses necessary or incidental to the performance of the work for the _____, hereinafter called the "Work," all as more particularly set out in detail in the plans and Specifications, and in strict compliance with all the Contract documents referred to herein and including all modifications incorporated in these documents before their execution.

(2) The Contractor agrees to accept and the Owner agrees to pay under the conditions set forth in the Specifications, the prices set forth in the Bid, which prices by this reference must be considered a part of this Contract as though fully set forth herein.

/ / / / /

/ / / / /

/ / / / /

/ / / / /

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The prices paid as herein provided must be considered full compensation for furnishing all materials and doing all the work embraced and contemplated in the Contract, and for all risks, loss or damage arising out of the nature of said work, or from the action of the elements or from any unforeseen difficulties or obstructions which may arise or be encountered in the prosecution of the Work until its acceptance by the Owner and for well and faithfully completing the Work according to the Plans and Specifications.

(3) The Contractor agrees to prosecute the Work with such diligence that this Contract must be completed on or before the expiration of the working days or completion date specified in the Specifications for the completion of the Work.

(4) This Contract consists of the following documents to wit:

a. Notice to Bidders

b. Federal Bid

c. This Contract

d. The Specifications for the Work

e. The Plans for the Work

f. Addenda, if required

g. Standard Specifications, Department of Transportation, State of California, dated 2018

h. Standard Plans, Department of Transportation, State of California, dated 2018

i. General Prevailing Wage Rates, Department of Transportation, State of California

j. Labor surcharge and equipment rental rates, Department of Transportation, State of California

k. Federal Minimum Wages Rates

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l. Form FHWA-1273

The provisions set forth in the General Prevailing Wage Rates and the Labor Surcharge and Equipment Rental Rates (Items i. and j. above) will take precedence over any conflicting provisions in Contractor's Bid (Item b. above).

In signing this Contract, the Contractor makes the following certification:

> "I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract."

IN WITNESS WHEREOF, eight identical counterparts of this Contract, each of which must for all purposes be deemed an original, thereof, have been duly executed by the parties hereinabove named, on the day and year first hereinabove written.

COUNTY OF SAN JOAQUIN,
a political subdivision of
the State of California

By_____
Chairman of the Board of Supervisors
of the County of San Joaquin,
State of California

"OWNER"

ATTEST: RACHÉL DeBORD
Clerk of the Board of Supervisors
of the County of San Joaquin,
State of California

By_____ (SEAL)
Deputy Clerk

Company Name_____

By _____

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Title _____

Contractor's License No. _____

Class of License _____

Expiration Date _____

Federal Employer Identification No. _____

"CONTRACTOR"

ACKNOWLEDGEMENT BY OBLIGEE/CONTRACTOR

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of _____

On _____ before me, _____
(Notary)

personally appeared_____,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal. (Seal)

Signature_____

CONTRACT APPROVED AS TO FORM:

By_____ Date _____
MATTHEW P. DACEY
Deputy County Counsel
Attorney for Owners

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PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: That WHEREAS, the County of San Joaquin, by Resolution passed_____, 20___, has given to_____ _____, hereinafter designated as the "Principal", a Notice of Intent to Award Contract for the Work described as follows:

WHEREAS, said Principal is required under the terms of said Notice to furnish a Bond for the faithful performance of such Notice.

NOW THEREFORE, we the Principal and _____ _____as Surety, an admitted Surety insurer pursuant to Code of Civil Procedure Section 995.120, legally doing business in California at _____, are held and firmly bound unto the County of San Joaquin, in the sum of _____ DOLLARS ($_____), lawful money of the United States of America, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that if the above bound Principal, his or its heirs, executors, administrators, successors or assigns, must in all things stand to and abide by and will and truly keep and perform, the covenants, conditions and agreements as defined in the said Contract and any alteration thereof made as therein provided on this or their part, to be kept and performed at the times and in the manner therein specified, and in all respects according to their true intent and meaning, and will indemnify and save harmless the County of San Joaquin, its officers and agents, as therein stipulated, then this obligation will become null and void, otherwise, it must be and remain in full force and virtue.

As a condition precedent to the satisfactory completion of the Contract, the above obligation must hold good for a period of one (1) year after the acceptance of the Work by County, during which time if Principal fails to make full, complete, and satisfactory repair and replacements and totally protect the County from loss or damage made evident during the period of one (1) year from the date of acceptance of the Work, and resulting from or caused by defective materials or faulty workmanship, the above obligation in penal sum thereof must remain in full force and effect. However, nothing in this paragraph will limit the obligation of the Surety and the obligation of the Surety must continue so long as any obligation of Principal remains.

And said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder, or the Specifications accompanying the same, must in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract, or to the Work, or to the Specifications. All terms and conditions as set forth in the General Conditions, as supplemented, to the Contract are incorporated by reference and Surety acknowledges that it is bound thereby, including the disputes clause(s) therein.

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In the event suit is brought upon this bond by the County and judgment is recovered, the Surety must pay all costs incurred by the County of San Joaquin in such suit, including a reasonable attorney's fee to be fixed by the court.

IN WITNESS WHEREOF, this instrument has been duly executed by the Principal and Surety above named, on the _____ day of _____, 20____.

(Corporate Seal)

_____
Principal

By: _____

_____
Typed or Printed Name

Title: _____

(Corporate Seal)

_____
Surety

By: _____

_____
Typed or Printed Name

(Attached Attorney-in-Fact Certificate)

Title: _____

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4 SCOPE OF WORK

4-1.06 DIFFERING SITE CONDITIONS (23 CFR 635.109)

4-1.06B Contractor's Notification, replace paragraph 1 with:

During the progress of the work, if subsurface or latent physical conditions are encountered at the site differing materially from those indicated in the contract or if unknown physical conditions of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in the work provided for in the contract, are encountered at the site, the party discovering such conditions shall promptly notify the other party in writing of the specific differing conditions before the site is disturbed and before the affected work is performed.

4-1.06C Engineer's Investigation and Decision, replace section with:

Upon written notification, the engineer will investigate the conditions, and if it is determined that the conditions materially differ and cause an increase or decrease in the cost or time required for the performance of any work under the contract, an adjustment, excluding anticipated profits, will be made and the contract modified in writing accordingly. The engineer will notify the contractor of the determination whether or not an adjustment of the contract is warranted.

No contract adjustment which results in a benefit to the contractor will be allowed unless the contractor has provided the required written notice.

No contract adjustment will be allowed under this clause for any effects caused on unchanged work.

4-1.13 CLEANUP, replace paragraph 2 with:

Do not remove warning, regulatory, or guide signs until directed by the Engineer.

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5 CONTROL OF WORK

5-1.01 GENERAL, replace paragraph 9 with:

Unless otherwise directed by the Engineer, use contract administrative forms available at the CA Department of Transportation website.

5-1.02 CONTRACT COMPONENTS, revise item 1 of the list in paragraph 2 as follows:

If a discrepancy exists:

1. Governing ranking of Contract Parts in descending order is:
    - 1.1 Construction Contract
    - 1.2 Special Provisions
    - 1.3 Project Plans
    - 1.4 Caltrans Traffic Manual
    - 1.5 Revised Standard Specifications
    - 1.6 Standard Specifications
    - 1.7 Revised Standard Plans
    - 1.8 Standard Plans
    - 1.9 Supplemental Project Information

5-1.09 PARTNERING

5-1.09A General, replace paragraph 2 and 3 with:

Professionally facilitated project partnering is required.

5-1.13 SUBCONTRACTING

5-1.13B(1) General, replace section with:

The prime contractor shall use each DBE subcontractor as listed on Exhibit 12-B Bidder's List of Subcontractors (DBE and Non-DBE), and Exhibit 15-G Construction Contract DBE Commitment form unless they receive authorization for a substitution. The prime contractor must:

1. Notify the Resident Engineer or Inspector of any changes to its anticipated DBE participation

2. Provide this notification before starting the affected work

3. Maintain records including:

    - Name and business address of each 1st-tier subcontractor
    - Name and business address of each DBE subcontractor, DBE vendor, and DBE trucking company, regardless of tier

    - Date of payment and total amount paid to each business (see Exhibit 9-F

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Monthly Disadvantaged Business Enterprise Payment)

If the prime contractor is a DBE contractor, they shall include the date of work performed by their own forces and the corresponding value of the work.
Before the 15th of each month, the prime contractor shall submit a Monthly DBE Trucking Verification (LAPM Exhibit 16-Z1) form found at https://dot.ca.gov/-/media/dot-media/programs/local-assistance/documents/lapm/c16/16z1.pdf.

If a DBE is decertified before completing its work, the DBE must notify the prime contractor in writing of the decertification date. If a business becomes a certified DBE before completing its work, the business must notify the prime contractor in writing of the certification date. The prime contractor shall submit the notifications. Upon work completion, the prime contractor shall complete a Disadvantaged Business Enterprises (DBE) Certification Status Change, Exhibit 17-O, form and submit the form within 30 days of contract acceptance.

Upon work completion, the prime contractor shall complete Exhibit 17-F Final Report – Utilization of Disadvantaged Business Enterprises (DBE), First-Tier Subcontractors and submit it within 90 days of contract acceptance. The Department will withhold $10,000 until the form is submitted.

The Department releases the withhold upon submission of the completed form.

After submitting an invoice for reimbursement that includes a payment to a DBE, but no later than the 10th of the following month, the prime contractor shall complete and email the Exhibit 9-F: Disadvantaged Business Enterprise Running Tally of Payments to business.support.unit@dot.ca.gov with a copy to the County Engineer.

5-1.13B(2) Disadvantaged Business Enterprises, replace paragraphs 3 through 6 with:

The prime contractor shall utilize the specific DBEs listed to perform the work and supply the materials for which each is listed unless the contractor obtains the Department's written consent. The prime contractor shall not terminate or substitute a listed DBE for convenience and perform the work with their own forces or obtain materials from other sources without prior written authorization from the Department. Unless the Department's prior written consent is provided, the contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the listed DBE on the Exhibit 15-G Construction Contract DBE Commitment form included in the Bid.

The Department authorizes a request to use other forces or sources of materials if the bidder shows any of the following justifications:

1. Listed DBE fails or refuses to execute a written contract based on plans and specifications for the project.

2. The Department stipulated that a bond is a condition of executing the subcontract

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and the listed DBE fails to meet your bond requirements.

3. Work requires a contractor's license and listed DBE does not have a valid license under Contractors License Law.

4. Listed DBE fails or refuses to perform the work or furnish the listed materials (failing or refusing to perform is not an allowable reason to remove a DBE if the failure or refusal is a result of bad faith or discrimination).

5. Listed DBE's work is unsatisfactory and not in compliance with the contract.

6. Listed DBE is ineligible to work on the project because of suspension or debarment.

7. Listed DBE becomes bankrupt or insolvent.

8. Listed DBE voluntarily withdraws with written notice from the Contract

9. Listed DBE is ineligible to receive credit for the type of work required.

10. Listed DBE owner dies or becomes disabled resulting in the inability to perform the work on the Contract.

11. The Department determines other documented good cause.

The prime contractor shall notify the original DBE of the intent to use other forces or material sources and provide the reasons, allowing the DBE with 5 days to respond to the notice and advise the prime contractor and the Department of the reasons why the use of other forces or sources of materials should not occur. The prime contractor's request to use other forces or material sources must include:

1. One or more of the reasons listed in the preceding paragraph.

2. Notices from prime contractor to the DBE regarding the request.

3. Notices from the DBEs to the prime contractor regarding the request.

If the Department authorizes the termination or substitution of a listed DBE, the prime contractor must make good faith efforts to find another DBE to substitute for the original DBE. The substitute DBE must (1) perform at least the same amount of work as the original DBE under the contract to the extent needed to meet or exceed the DBE goal, and (2) be certified as a DBE with the most specific available NAICS codes and work codes applicable to the type of work the DBE will perform on the contract at the time of the prime contractor's request for substitution. The prime contractor shall submit their documentation of good faith efforts within 7 days of their request for authorization of the substitution. The Department may authorize a 7-day extension of this submittal period at the prime contractor's request. More guidance can be found at 49 CFR 26 app A regarding evaluation of good faith efforts to meet the DBE goal.

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5-1.13C Disabled Veteran Business Enterprises, delete.

5-1.13D Non-Small Businesses, delete.

5-1.20 COORDINATION WITH OTHER ENTITIES

5-1.20B Permits, Licenses, Agreements, and Certifications

5-1.20B(1) General, add:

When any portion of the work is shown to occur within the right-of-way of railroads, adjoining cities and/or other counties and agencies, you must obtain all of the necessary encroachment permits prior to the start work. Placement of traffic control signs within non-County right-of-way must not occur until the respective encroachment permit has been obtained. Contact information of agencies from which you must acquire permits/agreements will be shown on the plans and/or in the appendix of these specifications.

The Contractor must furnish the Engineer proof of permit application(s) within 5 working days after contract execution, and furnish approved Encroachment Permit(s) 5 working days prior to commencement of any work.

Full compensation for conforming to the requirements in this permit, including the cost of the permits/agreements, must be considered as included in the contract prices paid for the various item or work and no additional compensation will be allowed therefor.

5-1.20C Railroad Relations, replace section with:
The term "Railroad" will be understood to mean the railroad agencies identified on the project plans and/or in the appendix of these specifications.

The Contractor must provide Railroad insurance and enter into agreement with the Railroad.

When an agreement is required by the Railroad, no work will be allowed within their right-of-way until the County has verification of the Railroad's acceptance of the agreement covering work within their right-of-way.

In addition to any other form of insurance or bonds required under the terms of the contract and specifications, the Contractor will be required to carry insurance of the kinds and in the amounts specified by the Railroad.

Such insurance must be approved by the Railroad before any work is performed on Railroad's property and will be carried until all work required to be performed on or adjacent to the Railroad's property under the terms of the Contract is satisfactorily completed as determined by the Engineer, and thereafter until all tools, equipment and materials have been removed from Railroad's property and such property is left in a clean and presentable condition.

The insurance herein required must be obtained by the successful bidder and the Contractor will furnish the Engineer with a completed certificate, signed by the insurance company or its authorized agent or representative before the start of construction.

Payment for complying with these provisions and for any obtaining any and all types of

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insurances and bonds required by the Railroad, will be considered as included in the contract prices paid for the various items of work involved and no separate payment will be made therefor.

5-1.26 CONSTRUCTION SURVEYS, replace section with:

5-1.26A Department-Performed Construction Survey

Section 5-1.26A only applies when there is no bid item for Construction Staking shown on the Bid Item List.

Upon approval of staking request, the Engineer will provide the following stakes if applicable:

A. Control Stakes:

1. One set of line and grade reference stakes will be set on or adjacent to the right of way line.
2. One set of final grade stakes.
3. One set of curb and gutter stakes.
4. One set of sewer flowline stakes offset from trench centerline. Offset distance is to be determined in the field.
5. One set of culvert flowline stakes when determined necessary by the Engineer.

B. Structure Stakes:

1. Centerline of construction.
2. Exterior lines of Structure.
3. Bent Lines.
4. Bench Mark.

You must provide the Department at least a five-day's notice for all construction staking requests.

5-1.26B Contractor-Performed Construction Survey

Section 5-1.26B applies if a bid item for Construction Staking is shown on the Bid Item List.

The Contractor will provide the staking required for completion of the work.

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Staking will consist of furnishing and setting construction stakes and markers by the Contractor to establish the lines and grades required for completion of the work as shown on the plans and as specified in the Standard Specifications and Special Provisions and as necessary for the Engineer to check lines, grades, alignment and elevation.

Construction staking must be performed by a Licensed Land Surveyor in the State of California as necessary to control the work. The Contractor will determine the work and staking required and must be verified by the Engineer. Construction stakes and marks must be furnished and set with accuracy adequate to assure that the completed work conforms to the lines, grades, and section shown on the plans. Contractor must reset any survey monumentation disturbed by construction.

All computations necessary to establish the exact position of the work from control points will be made by the Contractor. All computations, survey notes, and other records necessary to accomplish the work must be neat, legible, and accurate. Copies of such computation notes and other records must be furnished to the Engineer prior to beginning work that requires their use.

Construction stakes damaged from any cause during the progress of the work will be replaced by the Contractor at his expense, as required or at the direction of the Engineer. Construction stakes must be removed from the site of work when no longer needed.

Upon completion of construction staking and prior to acceptance of the contract all computations, survey notes, and other data used to accomplish the work must be furnished to the Engineer and will become the property of San Joaquin County.

The contract lump sum price paid for **Construction Staking** will include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and doing all work involved in performing Construction Staking, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by Engineer.

Full compensation for furnishing and setting all other stakes necessary to construct the project will be considered as included in the prices paid for the various contract items of work, and no additional compensation will be allowed therefor.

5-1.27 RECORDS

5-1.27E Change Order Bills, replace section with:

Maintain Separate records for change order work costs. Change order bills must be submitted on forms approved by County.

5-1.30 NONCOMPLIANT AND UNAUTHORIZED WORK, add:

The Department may reduce payment for noncompliant work left in place.

5-1.32 AREAS FOR USE, replace paragraph 2 with:

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If sufficient area is not available within the contract limits, the Contractor is responsible for securing, at the contractor's expense, areas required for plant sites, storage of equipment or material, or for other purposes. Personal vehicles must not be parked on the traveled way or shoulders.

5-1.39 DAMAGE REPAIR AND RESTORATION

5-1.39C Landscape Damage

5-1.39C(1) General, delete paragraph 3.

5-1.43 POTENTIAL CLAIMS AND DISPUTE RESOLUTION

5-1.43A General, add after paragraph 4:

Where not preempted by Federal and/or State law, including but not limited to Public Contract Code 9204, Section 5-1.43, "Potential Claims and Dispute Resolution, " of Standard Specifications and the following provisions, as modified herein, will be utilized as the remedy procedures for any disputes or claims arising under or related to performance of the contract.

At any time after the Engineer receives an Initial Potential Claim Record, you and the Department may agree in writing to different time limits than those set forth herein.

5-1.43D Full and Final Potential Claim Record, add after paragraph 4:

If the Full and Final Potential Claim Record is timely submitted to the Engineer and the Engineer fails to furnish a response within the time limits prescribed for issuing a written statement under Public Contract Code, section 9204, subdivision (d)(1), the Engineer shall be deemed to have decided to reject the Full and Final Claim Record in its entirety.

Replace **"5-1.43E ALTERNATE DISPUTE RESOLUTION"** in its entirety with:

5-1.43E CONSTRUCTION CLAIM PROCEDURES

Attention is directed to the following Sections:
5-1.27E Change Order Bills
5-1.43B Initial Potential Claim Record
8-1.04B Standard Start
9-1.17 Payment After Contract Acceptance
9-1.22 Arbitration

The above provisions, as modified herein, will be utilized as the remedy procedures for any disputes or claims arising under or related to performance of the contract.

5-1.43E(1) Dispute Resolution

Submit a request, in writing, for an informal, meet and confer conference if you dispute the Engineer's response to your Full and Final Potential Claim Record. The Engineer's receipt of the request for the meet and confer conference must be evidenced by postal return receipt.

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The Engineer will schedule a meet and confer conference within 30 days for settlement of the dispute. Then Engineer will furnish you with a written statement within 10 days following conclusion of the meet and confer conference identifying the portions of the claim that remain in dispute and the portions that are undisputed. Any payment due on undisputed portions of the claim are made within 60 days after the written statement is furnished.

Identify any remaining portions of the claim in writing for submittal to non-binding mediation. Mediation costs shall be shared equally between you and the Department.
If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the claim.

Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the claim remaining in dispute shall be subject to applicable procedures, or as stated herein.

Claims (demands for monetary compensation or damages) arising under or relating to performance of the contract will be resolved by litigating the claim in a court of competent jurisdiction. Provided, however, if you and the Department mutually agree, in writing, to submit the claim to arbitration, the matter will go directly to arbitration proceedings. The agreement to pursue the matter through arbitration will be the parties' sole legal recourse such that the parties may not subsequently litigate the matter in any court proceeding except as to enforcement of the arbitration award or as otherwise provided in this section.

Arbitration, if expressly agreed upon in writing by the parties, will be pursuant to the provisions of California Code of Civil Procedure Section 1280 et seq., except wherever there are inconsistencies with those provisions and this section, this section will prevail. The arbitrator's award will be decided under and in accordance with the laws of this State, supported by law and substantial evidence and, in writing, contain the basis for the decision, findings of fact and conclusions of law. In addition to vacating an award on the grounds set out in Sections 1286.2 and 1286.4 of the California Code of Civil Procedure, a court will vacate the award if after review of the award it determines either that the award is not properly supported by substantial evidence or that it is based in whole or in part by an error of law.

The arbitrator will have jurisdiction over the procedures and substantive matters relating to the claim as set out in the arbitration submittal agreement executed by the parties.

Arbitration will be initiated by a Complaint in Arbitration made in compliance with the requirements of said regulations. A Complaint in Arbitration by the Contractor will be made not later than 90 days after the date of service in person or by mail on the Contractor of the final written decision by the Department on the claim.

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6 CONTROL OF MATERIALS

Add to section 6-1.03 of the RSS:

6-1.03B Submittals

6-1.03B(1) General

Not Used

6-1.03B(2) Work Plan

For local material, such as rock, gravel, earth, structure backfill, pervious backfill, imported borrow, and culvert bedding, obtained from a (1) noncommercial source, or (2) source not regulated under California jurisdiction, submit a local material plan for each material at least 60 days before placing the material. The local material plan must include:

1. Certification signed by you and an engineer who is registered as a civil engineer in the State or a professional geologist licensed as a professional geologist by the State stating:

   > I am aware local material from a noncommercial source or a source not regulated under CA jurisdiction must be sampled and analyzed for pH and lead and may require sampling and analysis under section 6-1.03B(3) for other constituents of concern based on the land use history. I am aware that local material sources must not contain ADL at concentrations greater than 80 mg/kg total lead or equal to or greater than 5 mg/L soluble lead as determined by the Waste Extraction Test (WET) Procedures, 22 CA Code of Regs § 66261.24(a)(2) App II. I am aware that a maximum quantity of material may be excavated at the site based on the minimum number of samples taken before excavating at the site under section 6-1.03B(3).

2. Land use history of the local material location and surrounding property
3. Sampling protocol
4. Number of samples per volume of local material
5. QA and QC requirements and procedures
6. Qualifications of sampling personnel
7. Stockpile history
8. Name and address of the analytical laboratory that will perform the chemical analyses
9. Analyses that will be performed for lead and pH
10. Other analyses that will be performed for possible hazardous constituents based on:
    - 10.1. Source property history
    - 10.2. Land use adjacent to source property
    - 10.3. Constituents of concern in the ground water basin where the job site is located

The plan must be sealed and signed by an engineer who is registered as a civil engineer in the State or a professional geologist licensed as a professional geologist by the State.
If the plan requires revisions, the Engineer provides comments. Submit a revised plan within 7 days of receiving comments. Allow 7 days for the review.

6-1.03B(3) Analytical Test Results

At least 15 days before placing local material, submit analytical test results for each local material obtained from a noncommercial source or a source not regulated under CA jurisdiction. The analytical test results must include:

1. Certification signed by an engineer who is registered as a civil engineer in the State or a professional geologist licensed as a professional geologist by the State stating:

   > The analytical testing described in the local material plan has been performed. I performed a statistical analysis of the test results using the US EPA's ProUCL software with the applicable 95

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percent upper confidence limit. I certify that the material from the local material source is suitable for unrestricted use at the job site, it has a pH above 5.0, does not contain soluble lead in concentrations equal to or greater than 5mg/l as determined by the Waste Extraction Test (WET) Procedures, 22 CA Code of Regs § 66261.24(a)(2) App II, does not contain lead in concentrations above 80 mg/kg total lead, is free from all other contaminants identified in the local material plan, and will comply with the job site's basin plan and water quality objectives of the RWQCB.

2. Chain of custody of samples
3. Analytical results no older than 1 year
4. Statistical analysis of the data using US EPA's ProUCL software with a 95 percent upper confidence limit
5. Comparison of sample results to hazardous waste concentration thresholds and the RWQCB's basin plan requirements and water quality objectives for the job site location

6-1.03B(4) Sample and Analysis

Sample and analyze local material from a (1) noncommercial source or (2) source not regulated under CA jurisdiction:

1. Before bringing the local material to the job site
2. As described in the local material plan
3. Under US EPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846)

The sample collection must be designed to generate a data set representative of the entire volume of proposed local material.

Before excavating at the (1) noncommercial material source or (2) a source not regulated under CA jurisdiction, collect the minimum number of samples and perform the minimum number of analytical tests for the corresponding maximum volume of local material as shown in the following table:

Minimum Number of Samples and Analytical Tests for Local Material

Maximum volume of imported borrow (cu yd)	Minimum number of samples and analytical tests
< 5,000	8
5,000–10,000	12 for the first 5,000 cu yd plus 1 for each additional 1,000 cu yd or portion thereof
10,000–20,000	17 for the first 10,000 cu yd plus 1 for each additional 2,500 cu yd or portion thereof
20,000-40,000	21 for the first 20,000 cu yd plus 1 for each additional 5,000 cu yd or portion thereof
40,000–80,000	25 for the first 40,000 cu yd plus 1 for each additional 10,000 cu yd or portion thereof
> 80,000	29 for the first 80,000 cu yd plus 1 for each additional 20,000 cu yd or portion thereof

Do not collect composite samples or mix individual samples to form a composite sample.

Analyze the samples using the US EPA's ProUCL software with a 95 percent upper confidence limit. All chemical analysis must be performed by a laboratory certified by the SWRCB's Environmental Laboratory Accreditation Program (ELAP).

The analytical test results must demonstrate that the local material:

1. Is not a hazardous waste
2. Has a pH above 5.0
3. Has an average total lead concentration, based upon the 95 percent upper confidence limit, at or below 80 mg/kg
4. Is free of possible contaminants identified in the local material plan
5. Complies with the RWQCB's basin plan for the job site location
6 Complies with the RWQCB's water quality objectives for the job site location

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6-1.03C Local Material Management

Do not place local material until authorized.

If the Engineer determines the appearance, odor, or texture of any delivered local material suggests possible contamination, sample and analyze the material. The sampling and analysis is change order work unless (1) hazardous waste is discovered or (2) the analytical test results indicate the material does not comply with section 6-1.03B(3).

Dispose of noncompliant local material at an appropriately permitted CA Class I, CA Class II or CA Class III facility. You are the generator of noncompliant local material.

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7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

7-1.02 LAWS

7-1.02K Labor Code

7-1.02K(2) Wages, replace paragraph 2 with:

The Contractor is required to pay the higher of the two wage rates published by the sources listed below:

1. Prevailing Wage Rates are available at the Department of Labor Web site, https://sam.gov/. Federal Wage rates for the project must be those in effect 10 calendar days prior to bid opening.

2. From the Department of Industrial Relations, general prevailing wage rates are available at http://www.dir.ca.gov/oprl/DPreWageDetermination.htm . These wage rates are not included in the Bid and Contract for the project. Changes, if any, to the general prevailing wage rates will be available at the Web site above.

Bidders are advised that a recent Department of Industrial Relation's determination indicates Fabricators are subject to prevailing wage requirements under the following conditions:

Workers employed by contractors or subcontractors are "employed in the execution of a contract for public works" when they are engaged in the off-site fabrication of items produced specially for the public works project and not for sale on the general market.

Where a contractor is producing products both for its own projects and for sale on the general market, the test for whether a pre-fabricated item is specially made for the public works project turns on factors such as whether the item was produced in accordance with the plans and specifications of the architects and/or engineers for that project and/or shop drawings based thereon such that the item differs from a standard, generic item.

Standard items must be considered to be produced specially for the public works project if they were modified to meet the specific requirements of that project.

For the foregoing reasons, prevailing wages must be paid to the employees of contractors and subcontractors engaged in the off-site fabrication or pre-fabrication of items specially produced for public works projects.

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7-1.02K(3) Certified Payroll Records (Labor Code §1776), replace paragraphs 6 through 10 with:

Certified payroll records must be submitted to San Joaquin County Department of Public Works, Attention: Field Engineering, P.O. Box 1810, Stockton, California 95201. Electronic submittal must not be accepted.

All contractors and subcontractors must furnish electronic certified payroll records directly to the Labor Commissioner, also known as Division of Labor Standards Enforcement.

7-1.02K(4) Apprentices, add**:**

Unless such provision would conflict with a state or federal law or regulation applicable to a particular contract for a public works project, County contracts for public works in excess of $200,000 will contain provisions pursuant to which each contractor or subcontractor will make a good faith effort to employ apprentices who are enrolled in and participating in a viable apprenticeship program serving the San Joaquin County and approved by the State Department of Apprenticeship Standards. This apprenticeship requirement will apply for each apprenticable craft or trade in which the contractor employs workers in performing any of the work under the contract. A contractor may evidence its good faith effort by complying with California Labor Code Section 1777.5 and the implementing regulations and seeking apprentices from apprenticeship programs serving the San Joaquin County.

A contractor employing apprentices pursuant to this section will employ apprentices in a ratio consistent with the provisions of California Labor Code or Federal requirements as applicable for federal aid contracts.

This section will not be construed to exempt a contractor from any other applicable requirement imposed upon the contractor by federal or state law.

7-1.02K(6) Occupational Safety and Health Standards

7-1.02K(6)(j)(ii) Lead Compliance Plan, replace paragraph 1 with:

Section 7-1.02K(6)(j)(ii) applies when the contract documents require a lead compliance plan.

Replace Section 7-1.02K(6)(j)(iii) of the RSS for Section 7-1.02K(6)(j)(iii) with:

7-1.02K(6)(j)(iii) Unregulated Earth Material Containing Lead

Section 7-1.02K(6)(j)(iii) includes specifications for handling, removing, and disposing of unregulated earth material containing lead. Management of this material exposes workers to health hazards that must be addressed in your lead compliance plan. This material contains average lead concentrations below 80 mg/kg total lead and below 5 mg/L soluble lead and is not regulated by DTSC as a hazardous substance or a hazardous waste. This material does not require disposal at a permitted landfill or solid waste disposal facility. The RWQCB has jurisdiction over reuse of this material at locations outside the job site limits.
Manage regulated earth material containing lead under sections 14-11.08.

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Unregulated earth material exists throughout the job site.
Lead is typically found within the top 2 feet of material within the highway. Reuse all of the excavated material on the right-of-way. Haul and place the surplus excavated material on the right-of-way at _____.
If unregulated material is disposed of:

1. Submit at least 15 days before disposal, the form titled "Agreement between a Contractor Working on State Facilities and a Real Property Owner for Disposing Construction-related Material Suitable for Use on Residential Zoned Property" which discloses the lead concentration of the material to the receiving property owner and obtains authorization for disposal on the property. Give a copy of the signed form to the property owner.
2. You are responsible for any additional sampling and analysis required by the receiving property owner.

If you choose to dispose of unregulated material at a commercial landfill:

1. Transport it to a Class III or Class II landfill appropriately permitted to receive the material
2. You are responsible for identifying the appropriately permitted landfill to receive the material and for all associated trucking and disposal costs, including any additional sampling and analysis required by the receiving landfill

7-1.02M Public Resources Code

7-1.02M(2) Fire Protection, delete “Reserved” and add:

Cooperate with local fire prevention authorities in eliminating hazardous fire conditions. Obtain the phone numbers of the nearest fire suppression agency. Submit these phone numbers to the Engineer before start of job site activities.

7-1.06 INSURANCE, replace section with:

Refer to special provision Section 3, "Award and Execution of Contract," for insurance requirements.

7-1.11 FEDERAL LAWS FOR FEDERAL-AID CONTRACTS

7-1.11A General, add between paragraphs 2 and 3:

Each subcontract and any lower–tier subcontract that may in turn be made shall include the “Required Contract Provisions Federal-Aid Construction” in Section 7 of these special provision and referenced 2018 Standard Specifications.

Noncompliance shall be corrected. Payments for subcontracted work involved will be withheld from progress payments due or to become due, until correction is made. Failure to comply may result in termination of the contract.

7-1.11B FHWA-1273, replace FHWA-1273 form with the following pages:

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FHWA-1273 -- Revised May 1, 2012

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

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I. General
II. Nondiscrimination
III. No segregated Facilities
IV. Davis-Bacon and Related Act Provisions
V. Contract Work Hours and Safety Standards Act Provisions
VI. Subletting or Assigning the Contract
VII. Safety: Accident Prevention
VIII. False Statements Concerning Highway Projects
IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
X. Compliance with Government wide Suspension and Debarment Requirements
XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding $10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

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2. EEO Officer: The contractor will designate and make known to the contracting officers and EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting and active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

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7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women.

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

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IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding $2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH–1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

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2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g. , the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH–347 is available for this purpose from the Wage and Hour Division Web site at http://www.dol.gov/esa/whd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency.

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH–347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

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4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

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8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of $100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph(1.) of this section, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contacting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
(2) the prime contractor remains responsible for the quality of the work of the leased employees;
(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

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2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

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FHWA-1273 -- Revised May 1, 2012

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost $25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

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FHWA-1273 -- Revised May 1, 2012

2. **Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost $25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website

(https://www.epls.gov/), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed $100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

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2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed information of participant is not required to exceed that which is $100,000 and that all such recipients shall certify and disclose accordingly.

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12. FEMALE AND MINORITY GOALS

To comply with Section II, "Nondiscrimination," of "Required Contract Provisions Federal-Aid Construction Contracts," the following are for female and minority utilization goals for Federal-aid construction contracts and subcontracts that exceed $10,000:

The nationwide goal for female utilization is 6.9 percent.

The goals for minority utilization [45 Fed Reg 65984 (10/3/1980)] are as follows:

MINORITY UTILIZATION GOALS

	Economic Area	Goal (Percent)
174	Redding CA: Non-SMSA (Standard Metropolitan Statistical Area) Counties: CA Lassen; CA Modoc; CA Plumas; CA Shasta; CA Siskiyou; CA Tehama	6.8
175	Eureka, CA Non-SMSA Counties: CA Del Norte; CA Humboldt; CA Trinity	6.6
176	San Francisco-Oakland-San Jose, CA: SMSA Counties: 7120 Salinas-Seaside-Monterey, CA CA Monterey 7360 San Francisco-Oakland CA Alameda; CA Contra Costa; CA Marin; CA San Francisco; CA San Mateo 7400 San Jose, CA CA Santa Clara, CA 7485 Santa Cruz, CA CA Santa Cruz 7500 Santa Rosa CA Sonoma 8720 Vallejo-Fairfield-Napa, CA CA Napa; CA Solano Non-SMSA Counties: CA Lake; CA Mendocino; CA San Benito	 28.9 25.6 19.6 14.9 9.1 17.1 23.2
177	Sacramento, CA: SMSA Counties: 6920 Sacramento, CA CA Placer; CA Sacramento; CA Yolo Non-SMSA Counties CA Butte; CA Colusa; CA El Dorado; CA Glenn; CA Nevada; CA Sierra; CA Sutter; CA Yuba	 16.1 14.3
178	Stockton-Modesto, CA: SMSA Counties: 5170 Modesto, CA CA Stanislaus 8120 Stockton, CA CA San Joaquin Non-SMSA Counties CA Alpine; CA Amador; CA Calaveras; CA Mariposa; CA Merced; CA Tuolumne	 12.3 24.3 19.8
179	Fresno-Bakersfield, CA SMSA Counties: 0680 Bakersfield, CA CA Kern 2840 Fresno, CA	 19.1 26.1

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	CA Fresno Non-SMSA Counties: CA Kings; CA Madera; CA Tulare	23.6
180	Los Angeles, CA: SMSA Counties: 0360 Anaheim-Santa Ana-Garden Grove, CA CA Orange 4480 Los Angeles-Long Beach, CA CA Los Angeles 6000 Oxnard-Simi Valley-Ventura, CA CA Ventura 6780 Riverside-San Bernardino-Ontario, CA CA Riverside; CA San Bernardino 7480 Santa Barbara-Santa Maria-Lompoc, CA CA Santa Barbara Non-SMSA Counties CA Inyo; CA Mono; CA San Luis Obispo	11.9 28.3 21.5 19.0 19.7 24.6
181	San Diego, CA: SMSA Counties 7320 San Diego, CA CA San Diego Non-SMSA Counties CA Imperial	16.9 18.2

For the last full week of July during which work is performed under the contract, the prime contractor and each non material-supplier subcontractor with a subcontract of $10,000 or more must complete Form FHWA PR-1391 (Appendix C to 23 CFR 230). Submit the forms by August 15.

13. TITLE VI ASSURANCES

The U.S. Department of Transportation Order No.1050.2A requires all federal-aid Department of Transportation contracts between an agency and a contractor to contain Appendix A and E.

APPENDIX A

During the performance of this Agreement, the contractor, for itself, its assignees and successors in interest (hereinafter collectively referred to as CONTRACTOR) agrees as follows:

a. Compliance with Regulations: CONTRACTOR shall comply with the regulations relative to nondiscrimination in federally assisted programs of the Department of Transportation, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the REGULATIONS), which are herein incorporated by reference and made a part of this agreement.

b. Nondiscrimination: CONTRACTOR, with regard to the work performed by it during the AGREEMENT, shall not discriminate on the grounds of race, color, sex, national origin, religion, age, or disability in the selection and retention of sub-applicants, including procurements of materials and leases of equipment. CONTRACTOR shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the agreement covers a program set forth in Appendix B of the Regulations.

c. Solicitations for Sub-agreements, Including Procurements of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by CONTRACTOR for work to be performed under a Sub- agreement, including procurements of materials or leases of equipment,

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each potential sub-applicant or supplier shall be notified by CONTRACTOR of the CONTRACTOR'S obligations under this Agreement and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.

d. Information and Reports: CONTRACTOR shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the recipient or FHWA to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of CONTRACTOR is in the exclusive possession of another who fails or refuses to furnish this information, CONTRACTOR shall so certify to the recipient or FHWA as appropriate, and shall set forth what efforts CONTRACTOR has made to obtain the information.

e. Sanctions for Noncompliance: In the event of CONTRACTOR's noncompliance with the nondiscrimination provisions of this agreement, the recipient shall impose such agreement sanctions as it or the FHWA may determine to be appropriate, including, but not limited to:

   i. withholding of payments to CONTRACTOR under the Agreement within a reasonable period of time, not to exceed 90 days; and/or

   ii. cancellation, termination or suspension of the Agreement, in whole or in part.

f. Incorporation of Provisions: CONTRACTOR shall include the provisions of paragraphs (1) through (6) in every sub-agreement, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto.

CONTRACTOR shall take such action with respect to any sub-agreement or procurement as the recipient or FHWA may direct as a means of enforcing such provisions including sanctions for noncompliance, provided, however, that, in the event CONTRACTOR becomes involved in, or is threatened with, litigation with a sub-applicant or supplier as a result of such direction, CONTRACTOR may request the recipient enter into such litigation to protect the interests of the State, and, in addition, CONTRACTOR may request the United States to enter into such litigation to protect the interests of the United States.

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APPENDIX E

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities, including, but not limited to:

Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), prohibits discrimination on the basis of sex;
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 CR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 U.S.C. § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination of the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 – 12189) as implemented by Department of Transportation regulations 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

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8 PROSECUTION AND PROGRESS

Replace the 1st paragraph of section 8-1.02C(1) with:

Section 8-1.02C does not apply. Comply with section 8-1.02D except the 1st paragraph.

8-1.04 START OF JOB SITE ACTIVITIES

8-1.04B Standard Start, replace section with:

Do not enter the work site or initiate construction operations until you have submitted to the County in proper form all contract, surety bonds, evidences of insurance and all other documents required of you in connection with the contract and all such documents have been approved and/or executed, as appropriate, by County. Written notice of approval must be issued by the Department.

When traffic signal materials are part of the contract, you must furnish material submittals to the Engineer within 15 calendar days after the contract is awarded and must show the estimated date of delivery for traffic signal materials, which include, but not limited to:

- Traffic signal standards or lighting standards (e.g., poles and/or mast arms)
- Traffic signal head/housing modules
- Traffic signal controller cabinets and/or service pedestals

Once material submittals are approved by the Engineer, provide a statement from the traffic signal vendor indicating that all of the necessary traffic signal material has been ordered and accepted by said vendor. Written evidence, indicating that the necessary traffic signal equipment is in your possession, must be provided to the Engineer prior to entering the work site or initiating construction operations.

The working days must begin on **March 2, 2026**, contingent upon prior receipt of notice of approval. If the notice is not received before the specified date, working days must begin on the first working day of the week following the date of the notice of approval.

The beginning of working days may be rescheduled by mutual agreement between the Contractor and the Department by written correspondence.

When the plans indicate that Public Outreach is necessary for this project, the Contractor must arrange an informational meeting for the general public two weeks prior to the start of construction concerning the project scope and timing. Meeting site must be in a public location (i.e.: school, park, fire house…) within three blocks of project site unless otherwise approved by the Engineer. A public address (PA) system will be required for the meeting. Location and time of the meeting must be approved by the Engineer. The Contractor must perform public outreach by advertising the meeting in the local newspaper and sending written notifications to the residents located within project limits. Full compensation for performing this meeting, including acquiring meeting site, supplying PA system, advertising, notifying residents, and all other incidentals, must be considered as included in the prices paid for various contract items of work and no separate payment will be made therefor. **If COVID-19 restrictions prevent an in-person public meeting, said meeting shall be conducted online using a video-telephony program such as Zoom or approved equal.**

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8-1.05 TIME, replace paragraphs 1 through 3 with:

The Contractor must complete all work before the expiration of **180** working days.

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9 PAYMENT

9-1.02 MEASUREMENT

9-1.02C Final Pay Item Quantities, add:

Final Pay Quantities are identified by the letter "(F)" in the bid item lists of the Notice to Bidders and Bid in the "Item No." column.

9-1.03 PAYMENT SCOPE, add:

The prime contractor or subcontractor shall pay to any subcontractor, not later than **seven days** after receipt of each progress payment, unless otherwise agreed to in writing, the respective amounts allowed the contractor on account of the work performed by the subcontractors, to the extent of each subcontractor's interest therein. In the event that there is a good faith dispute over all or any portion of the amount due on a progress payment from the prime contractor or subcontractor to a subcontractor, the prime contractor or subcontractor may withhold no more than 150 percent of the disputed amount. Any violation of this requirement shall constitute a cause for disciplinary action and shall subject the licensee to a penalty, payable to the subcontractor, of 2 percent of the amount due per month for every month that payment is not made. In any action for the collection of funds wrongfully withheld, the prevailing party shall be entitled to his or her attorney's fees and costs. The sanctions authorized under this requirement shall be separate from, and in addition to, all other remedies, either civil, administrative, or criminal. This clause applies to both DBE and non-DBE subcontractors.

9-1.07 PAYMENT ADJUSMENT FOR PRICE INDEX FLUCTUATIONS, delete.

9-1.16 PROGRESS PAYMENTS

9-1.16A General, replace paragraph 2 with:

The Engineer's Monthly Estimate Period must begin on the first Monday following the 15th day of the month. Payment must be due the month following the Engineer's Monthly Estimate Period.

9-1.16F Retentions, replace section with:

No retainage will be held by the Department from progress payments due to the prime contractor. Prime contractors and subcontractors are prohibited from holding retainage from subcontractors. Any delay or postponement of payment may take place only for good cause and with the Department's prior written approval.

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Any violation of these provisions Prompt Progress Payment and Prompt Payment of Withheld Funds to Subcontractors shall subject the violating contractor or subcontractor to the penalties, sanctions, and other remedies specified in Section 7108.5 of the California Business and Professions Code and Section 10262 of the California Public Contract Code. This requirement shall not be construed to limit or impair any contractual, administrative or judicial remedies, otherwise available to the contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the contractor, deficient subcontractor performance and/or noncompliance by a subcontractor. This clause applies to both DBE and non-DBE subcontractors.

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10 GENERAL

10-1 GENERAL

10-1.02 WORK SEQUENCING

10-1.02B Traffic Elements, add before paragraph 1:

When the work includes the installation of underlying conduits or loop detectors, do not place the uppermost layer of new pavement until all underlying conduits and loop detectors are installed.

Replace *Reserved* in section 10-1.03 with:

You may work within drainage channels only from June 1 to October 31 of any year.

10-1.02E Excavation, add before paragraph 1:

Excavation within 6 feet of the existing traveled way must not precede the paving operation by more than 5 working days unless:

1. Authorized

2. Material is placed and compacted against the vertical cuts within 2 feet of the existing traveled way. During excavation operations, native material may be used for this purpose except once the placement of the structural section starts, structural material must be used. Place the material up to the top of the existing pavement and taper at a slope of 4:1 (horizontal: vertical) or flatter to the bottom of the excavation. Do not use treated base for the taper.

Replace **"10-1.05 RESERVED"** with:

10-1.05 RELATIONS WITH LOCAL SCHOOLS

Schools/educational centers within the vicinity of the project must be provided a 72-hours advance notice prior to commencement of any work. Due to the unforeseen possibility of the presence of students at schools/educational centers, any work obstructing direct access to schools/educational centers must be performed on the weekend. Weekday work near schools may be performed before or after pickup/drop off hours if written approval is obtained by the School District and the Resident Engineer. Written approval must indicate permissible work (time) windows. There will be no exceptions without these prior approvals. No extra or additional compensation is implied for performing work during weekends.

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10-4 WATER USAGE, replace item 4 of paragraph 3 with**:**
4. Dust palliative for dust control requires preapproval by the Engineer.

10-5 DUST CONTROL, replace item 1 of paragraph 2 with:
1. Applying non-potable water under Section 10-6, "Watering," of the Standard Specifications and these Special Provisions.

10-5 DUST CONTROL, add after paragraph 2:
No separate payment will be made for any work performed or materials used to control dust resulting from the Contractor's operations either inside or outside the right-of-way, or for controlling dust caused by public traffic during Contractor's working hours. Full compensation for such dust control will be considered as included in the prices paid for the various items of work involved and no additional compensation will be allowed therefor.

When the Engineer orders the application of water for the purpose of controlling dust caused by public traffic during non-working hours after the Contractor has shut down operations for overnight, for a weekend, for a holiday or for temporary suspension of work, in accordance with Section 8-1.06, "Suspensions," of the Standard Specifications, such work will be paid for at the contract unit price for **Dust Control (Non-working Hours)**.

Payment quantity of Dust Control (Non-working Hours) must be measured and paid for as follows:

After working hours.....1 each Dust Control (Non-working Hours) per day

Saturday or non-working day..... 2 each Dust Control (Non-working Hours) per day

Sunday or Holiday..... 3 each Dust Control (Non-working Hours) per day

No adjustment of compensation will be made for the unit item of Dust Control (Non-working Hours) for any increase or decrease in the hours of work or the quantity of water required, regardless of the reason for such increase or decrease.

10-6 WATERING, replace sentence 1 of paragraph 3 with:

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Water for dust control on this project must be non-potable.

If non-potable water is unavailable, use of potable water for dust control is permissible with the approval of the Engineer. When non-potable water is permissible, it must either be recycled water or non-potable water developed from other sources. Contractor must obtain a permit for potable water usage and pay all applicable fees from San Joaquin County Public Works Community Infrastructure Engineering Division or to any other outside agency for obtaining their potable water.

Provide written notification to the Engineer of the intended source(s) to be used, prior to starting work on the project.

10-6 WATERING, add after paragraph 11:

When the contract does not include a contract pay item for **Develop Water Supply**, full compensation for Develop Water Supply must be considered as included in the contract prices paid for the various items of work involved.

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12 TEMPORARY TRAFFIC CONTROL

12-1 GENERAL

12-1.01 GENERAL, add:

Submit a construction area Traffic Control Plan, for approval by the Engineer, at least 10 working days prior to start of work.

12-1.04 PAYMENT, add:

Payment for transportation of flaggers is limited to transportation necessary within the job site.

When you and the Engineer mutually agree that a pilot car is warranted for public safety and convenience, the cost of furnishing and operating the pilot car must be considered as part of the flagging costs, equally shared by you and the Department.

Hourly wage rates, that are to be equally shared by you and the Department, are limited to the governing California Prevailing Wage or Federal Minimum Wage rates.

12-3 TEMPORARY TRAFFIC CONTROL DEVICES

12-3.11 CONSTRUCTION AREA SIGNS

12.3.11A General

12-3.11A(1) Summary, replace paragraph 1 with:

Section 12-3.11 includes specifications for placing, installing, maintaining, and removing construction area signs.

Unless otherwise described, advance warning and detour signs (when applicable) outside of the construction zone will be furnished, installed, and maintained by County forces. Detour Plan will either be available in the appendix of these Project specifications or as supplemental information on www.bidexpress.com. Applicable Advanced Warning Signs will be available upon request to the awarded contractor.

12-3.11B Materials

12-3.11B(5) General Information Signs, replace "Reserved" with:

When the plans or specifications indicate that construction funding identification or other general information signs are to be installed by County forces, you must maintain and relocate said signs as necessary, or as directed by the Engineer.

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After project completion, salvage the signs and deliver them to the Department's Corporation Yard located at 1810 East Hazelton Avenue, Stockton, California. Contact Public Works' Dispatch at (209) 468-3074 to make arrangements to have County personnel receive the salvaged materials.

12-3.11D Payment, replace "Not Used" with:

Full compensation for maintaining, relocating, salvaging, and delivering signs will be considered as included in the **Traffic Control System** bid item and no separate payment will be made therefor.

12-3.32 PORTABLE CHANGEABLE MESSAGE SIGNS

12-3.32A(1) Summary, replace paragraph 1 with:

Section 12-3.32 is applicable when the contract includes a bid item for portable changeable message signs. Said section includes specifications for placing, maintaining, and removing portable changeable message signs.

12-3.32C Construction, add between paragraphs 10 and 11:

Display portable changeable message signs 7 calendar days prior to commencement of work. Traffic Control Plan must indicate the proposed locations of advanced warning portable changeable message signs.

12-3.32D Payment, replace "Not Used" with:

Payment quantity for **Portable Changeable Message Sign** is measured by the unit from actual count.

12-4 MAINTAINING TRAFFIC

12-4.01 GENERAL

12-4.01C Construction, replace paragraph 1 with "Not Used."

12-4.02 TRAFFIC CONTROL SYSTEMS

12-4.02A(1) Summary, replace paragraph 1 with:

Section 12-4.02 includes specifications for providing traffic control systems to close traffic lanes with stationary and moving lane closures.

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12-4.02A(3)(d) Traffic Break Schedule, delete.

12-4.02C(2) Lane Closure System

12-4.02C(2)(a) General, delete.

12-4.02C(3) Closure Requirements and Charts

12-4.02C(3)(a) General

Add to the end of section 12-4.02C(3)(a) of the RSS for section 12:

Keep a minimum of 1 paved traffic lane at least 14 feet wide open for traffic.

Revise **Section 12-4.02C(3)(k)** title to **"Conventional Highway Lane Requirements,"** and add**:**

Unless otherwise described, a minimum of 1 paved traffic lane, not less than 10 feet in width, must be open for use by public traffic at all times. When construction operations are not actively in progress, not less than 2 such lanes must be open to public traffic.
Only streets receiving an application of slurry seal are allowed to be closed to traffic for a maximum of four hours. To avoid inconveniencing an entire area, streets to be slurry sealed must not be closed simultaneously.
On roadways with 2 or more traffic lanes in each direction, conduct traffic operations with at least 1 paved traffic lane open in each direction at all times.
Under one-way reversing traffic control operations, you may stop traffic in one direction for periods not to exceed 10 minutes. After each stoppage, all accumulated traffic for that direction must pass through the work zone before another stoppage is made.

Revise **Section 12-4.02C(3)(m)** title to **"Road Closure Requirements,"** and add:

When road closure is indicated on the plans, divert through traffic around the project. Unless specific restrictions are indicated on the plans, or elsewhere within these special provisions, local traffic must be permitted to pass through construction operations at all times with as little inconvenience and delay as possible.

Replace *Reserved* in section 12-4.02C(3)(o) of the RSS with:

Construction of the driveways requires coordination with property occupants. Make the necessary arrangements with the property occupants through the Engineer and submit a schedule:

1. Driveway 1 may be closed for up to 2 weeks.
2. Limit driveway closure to 4 hours.

12-4.02C(7) Traffic Control System Requirements

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12-4.02C(7)(a) General, replace paragraph 1 with:

When placing traffic stripes and pavement markers, control traffic with stationary or moving lane closures. During other activities, control traffic using stationary lane closures.

12-4.02C(7)(b) Stationary Closures, add after paragraph 2:

For traffic under one-way control on unpaved areas, the cones shown along the centerline need not be placed.

If the pilot car is used for traffic control, the cones shown along the centerline need not be placed. The pilot car must have radio contact with personnel in the work area. Operate the pilot car through the traffic control zone at a speed not greater than 25 miles per hour.

12-4.02D Payment, replace section with:

Traffic Control System, other than work considered as flagging costs, is paid for at the contract lump sum price.

The requirements in section 4-1.05, "Changes and Extra Work," for payment adjustment do not apply to Traffic Control System. Adjustments in compensation for Traffic Control System will be made for an increase or decrease in traffic control work if ordered and will be made on the basis of the cost of the necessary increased or decreased traffic control. The adjustment will be made on a force account basis for increased work and estimated on the same basis in the case of decreased work.

A traffic control system required by change order work is paid for as a part of the change order work.

Replace section 12-5 of the RSS with:

12-5 DETOUR

12-5.01 GENERAL

12-5.01A General

Section 12-5 includes specifications for constructing, maintaining and removing temporary detour through construction work zones.
A temporary detour includes temporary bridge, temporary roadway farm access, drainage and irrigation features and facilities, temporary traffic control devices, temporary delineation and signs.
Temporary traffic control devices must include no less than 2 PCMS.

12-5.01B Submittals

Submit a work plan for a temporary pedestrian access route. The work plan must:

1. Show the roadway structural section to be provided
2. Show proposed pavement delineation and signs
3. Show all traffic control devices
4. Describe the activities, processes, equipment, and materials that will be used to provide the temporary detour
5. Be sealed and signed by an engineer who is registered as a civil engineer in the State

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12-5.02 MATERIALS

Roadway surface must comply with Section 39 for HMAC.
Traffic control devices must comply with Section 12-3.
Temporary pavement delineation must comply with Section 12-6.

12-5.03 CONSTRUCTION

When detour is no longer necessary, restore the area to its previous condition or construct it to its planned condition.

12-5.04 PAYMENT

Not Used

12-6 TEMPORARY PAVEMENT DELINEATION

12-6.01 GENERAL, replace paragraph 1 with:

Section 12-6 includes specifications for placing, applying, maintaining, and removing temporary pavement delineation.

12-6.03 CONSTRUCTION

12-6.03A General, replace sentence 2 of paragraph 1 with:

Temporary pavement delineation must consist of a lane line, centerline, and pavement markings for traveled ways open to traffic.

12-6.03B Temporary Lane Line and Centerline Delineation, add between paragraphs 2 and 3:

Cement the markers to the surfacing with the adhesive recommended by the manufacturer, except do not use epoxy adhesive to place pavement markers in areas where removal of the markers will be required.

Temporary lane line delineation placed on portland cement concrete pavement must consist of a white traffic stripe supplemented by a black-contrast traffic stripe and clear retroreflective pavement markers. Place the temporary lane line and clear retroreflective pavement markers longitudinally at intervals not exceeding 48 feet. The black contrast stripe and clear retroreflective pavement markers may remain in place at locations where you will be placing permanent pavement delineation.

12-6.03C Temporary Edge Line Delineation, replace lines 1.1 and 2.1 of paragraph 1 with:

1.1 Solid traffic stripe tape of the same color and detail as the stripe being replaced

2.1 Solid traffic stripe tape of the same color and detail as the stripe being replaced

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12-6.03C Temporary Edge Line Delineation, replace paragraph 2 with:

You may apply temporary traffic stripe paint of the same color as the stripe being replaced instead of solid temporary traffic stripe tape where the removal of the temporary traffic stripe is not required.

12-6.03C Temporary Edge Line Delineation, add to start of paragraph 4:

Channelizers used for temporary edge line delineation must be one of the 36-inch, orange surface-mounted types, and on the Authorized Material List.

12-6.03D Temporary Traffic Stripe, Pavement Marking, and Pavement Markers

12-6.03D(1) General, replace "Reserved" with:

If pavement markings are obliterated and temporary pavement delineation to replace the markings is not shown, apply temporary pavement markings prior to opening traveled ways to traffic.

12-6.03D(4) Temporary Pavement Marking Tape, add to end of paragraph 1:

Temporary pavement marking tape must be the same color and dimensions as the pavement marking detail being replaced, or as superseded by a subsequent traffic pattern or new striping detail.

12-6.03D(5) Temporary Pavement Marking Paint, add to end of paragraph 1:

Temporary pavement marking paint must be the same color and dimensions as the pavement marking detail being replaced, or as superseded by a subsequent traffic pattern or new striping detail.

12-6.04 PAYMENT, add between paragraphs 1 and 2:

In Section 84, "Markings," references made to 6-inch stripe must be revised to 4-inch stripe unless otherwise indicated on the plans. Application rates defined for materials placed per linear foot under Section 84 must be revised based on the width of the striping and marking as defined on the project plans.

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13 WATER POLLUTION CONTROL

13-1 GENERAL

13-1.01 GENERAL

13-1.01A Summary, add:

This project is anticipated to disturb **less than 1 acre** of soil.

Add to the end of section 13-1.01A:

The specifications in section 13 for water quality monitoring apply to the following work activities whenever they occur in water:

1. Temporary Construction Access
2. Grading and Excavation
3. Falsework Construction
4. Bridge Construction
5. Bridge Demolition
6. Placement of Rock Slope Protection
7. Any in-water work or activities which result in the creation of a visible plume in surface waters.

The receiving water for this project is Littlejohns Creek.
Notify the Central Valley Water Board (CVWB) in writing, seven (7) days in advance of the start of any work within waters of the United States to the contact below:

Nicholas White, Water Resource control Engineer
Central Valley Regional Water Quality Control Board
11020 Sun Center Drive, Suite 200
Rancho Cordova, CA 95670-8114
Nicholas.White@waterboards.ca.gov
(916) 464-4856

A copy of the 401 Water Quality Certification from the CVWB shall be maintained with supporting documentation (project information sheet) at the project site during construction for review by site personnel (County employees, contractors and subcontractors) performing work on the project. Site personnel shall be adequately informed and trained regarding the conditions of the 401 Water Quality Certification for this project.

Add to the end of section 13-1.01C(4)(c):

Replace the 2nd and 3th paragraphs of section 13-1.01C(4)(d) with:

Submit a water quality annual report for each reporting period.
The report must be in an authorized format.

Replace the items in the list in the 3rd paragraph of section 13-1.01D(5)(b) with:

1. Water sampling shall be conducted upstream outside of the influence of the project.
2. Water sampling shall be conducted 300-feet downstream of the work area.

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Replace the items in the list in the 4th paragraph of section 13-1.01D(5)(b) with:

1. Minimum sampling frequency for Turbidity and Settleable Material testing shall be every 4 hours during in-water work.
2. Continuous visible construction related pollutants throughout the construction period.

Add between the 4th and 5th paragraphs of section 13-1.01D(5)(b):

Test the receiving water under the test methods for the WQOs shown in the following table:

Water Quality Objectives

Quality characteristic	Test method	Detection limit (min)	Requirement
Turbidity during activities for in-water work (NTU)	Field test with a calibrated portable instrument (Measured at downstream sampling location)	1	15 above natural background
Turbidity during activities excluding in-water work (NTU)	Field test with a calibrated portable instrument (Measured at downstream sampling location)	1	1. Where natural turbidity is less than 1 NTU, increases must not exceed 2 NTU. 2. Where natural turbidity is from 1 to 5 NTUs, increases must not exceed 1 NTU. 3. Where natural turbidity is from 5 to 50 NTUs, increases must not exceed 20 percent. 4. Where natural turbidity is from 50 to 100 NTUs, increases must not exceed 10 NTUs. 5. Where natural turbidity is greater than 100 NTUs, increases must not exceed 10 percent.
Settleable material (ml/L)	Observed	--	Greater than 0.1 ml/L
pH	Grab	1	1. pH in surface water to be depressed below 6.5 2. pH in surface water to be raised above 8.5

Replace the first sentence of the 5th paragraph of section 13-1.01D(5)(b) with:

If a WQO is exceeded, the water quality monitor must notify the Engineer by phone or electronic media immediately and:

13-1.01B Definitions, add:

Department: When used in reference to manuals and General Permits, Department must mean San Joaquin County Department of Public Works.

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Add to the end of section 13-3.01A:

This project's risk level is _2___.

Add between the 4th and 5th paragraphs of section 13-3.01C(2)(a):

The following RWQCBs will review the authorized SWPPP:

1. Central Valley Regional Water Quality Control Board

Replace the paragraphs in section 13-3.01D(2) with:

Discharges of stormwater from the job site must comply with the permit issued by the Central Valley RWQCB for National Pollutant Discharge Elimination System (NPDES) Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 2009-009-DWQ), Permit No. CAS000002. The Central Valley RWQCB permit governs stormwater and nonstormwater discharges resulting from construction activities at the job site. The Central Valley RWQCB permit may be viewed at https://www.waterboards.ca.gov/water_issues/programs/stormwater/constpermits.html.

13-3.01C Submittals

13-3.01C(2)(a) General, replace paragraph 1 with:

Within 7 days of Contract approval:

1. Submit 3 copies of your SWPPP for review. You may assign a QSD other than the WPC manager to develop the SWPPP. Allow 5 days for the Department's review. The Engineer provides comments and specifies the date when the review stopped if revisions are required.
2. Change and resubmit a revised SWPPP within 5 days of receiving the Engineer's comments. The Department's review resumes when a complete SWPPP has been resubmitted.
3. When the Engineer authorizes the SWPPP, submit an electronic copy and 4 printed copies of the authorized SWPPP.
4. If the RWQCB requires review of the authorized SWPPP, the Engineer submits the authorized SWPPP to the RWQCB for its review and comments.
5. If the Engineer requests changes to the SWPPP based on the RWQCB's comments, amend the SWPPP within 5 days.

Upon approval of SWPPP by Engineer, Contractor must submit Permit Registration Documents (PRDs) on the State's online "SMARTS" system for any project that will disturb one acre or more of earth, or any projects that involve a smaller disturbance, but is part of a larger project plan. The Contractor must register with the State as a data submitter and must submit online the required PRDs including: the online NOI form; risk level determination information; a Storm Water Pollution Prevention Plan (SWPPP); a site map; and a vicinity map. The County will be the Legally Responsible Person (LRP) and will establish an LRP-account and certify the PRD submittals once they have been uploaded by the Contractor.

Contractor must provide payment of fees. Fees are calculated per acre of disturbed area as determined by the SWRCB. The SWPPP must comply with the requirements of the

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Construction General Permit. Further information regarding filing a NOI, calculating fees and preparing a SWPPP can be obtained from the SWRCB. Call the SWRCB at 916-341-5536 and 1-(866)-563-3107 or visit the website at http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml for more information on the General Permit and associated requirements.

13-3.04 Payment, add:

When there are no separate bid items for **Rain Event Action Plan**, **Storm Water Sampling and Analysis Day**, and **Storm Water Annual Report**, payment for said items will be considered as included in the various items of work involved and no additional payment will be made therefor.

Payment for preparing the PRD and PRD fees must all be considered as included in the contract lump sum price paid for **Prepare Storm Water Pollution Prevention Plan.**

Implementation of said plan must be considered as included in the contract lump sum price paid for **Water Pollution Control**.

For each failure to submit a completed storm water annual report, the Department withholds $10,000. This withhold is in addition to other performance failure withholds.

13-4 JOB SITE MANAGEMENT

Replace the last paragraph of section 13-4.03C(1) with:

———

Replace *50* in the 4th paragraph of section 13-4.03D(5) with:

——

Replace *50* in the 1st and 2nd paragraphs of section 13-4.03E(8) with:

——

Add between the 1st and 2nd paragraphs of section 13-4.03G:

Dewatering must comply with the Central Valley Regional Water Quality Control Board 401 Water Quality Certification. For the permit, go to the Central Valley Regional Water Quality Control Board website (http://waterboards.ca.gov.centralvalley/).

13-4.04 Payment, replace "Not Used" with:

Unless there is a separate bid item, **Job Site Management** must be considered as included in the contract lump sum price paid for **Water Pollution Control.**

13-7.03D Payment, replace section with:

Installation, relocation, and maintenance of construction entrances or roadways is borne by the Contractor.

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Replace section 13-12 with:

13-12 TEMPORARY CREEK DIVERSION SYSTEMS

13-12.01 GENERAL

13-12.01A Summary

Section 13-12 includes specifications for constructing, maintaining, reconstructing, and removing temporary creek diversion system (TCDS), and restoring creek bed to original condition. The temporary diversion system is used to divert upstream water flows to allow construction in a dry or dewatered location.

13-12.01B Definitions

Not Used

13-12.01C Submittals

Submit a certificate of compliance for each constituent elements such as but not limited to:

1. Gravel gradation
2. Plastic sheeting
3. Pipe material
4. Pump system, if used

13-12.01C(1) Temporary Creek Diversion System Plan

Within 20 days of Contract approval, submit 3 copies of the Temporary Creek Diversion System Plan (TCDSP). The TCDSP must include:

1. Installation and removal process, including equipment, platforms for equipment, and access locations.
2. Anticipated flow rates.
3. Calculations supporting the sizing of piping, channels, pumps, or other conveyance by using FHWA HY-8 or other equivalent method. Calculate the discharge water flow rate and velocity anticipated where it discharges on any erodible surface, so its conveyance does not cause erosion within the project or at the discharge to the water body. Temporary culverts attached to banks, walls, or other locations must be designed to hold the full weight of the culvert at capacity and restrain the culvert for any expected hydraulic forces.
4. Plans showing locations of diversion, including layouts, cross sections, and elevations.
5. Materials proposed for use, including MSDS if applicable.
6. Operation and maintenance procedures for the TCDS.
7. Restoration plans showing before and after conditions, including photos of existing conditions for areas disturbed during the installation, operation, and removal of the TCDS.
8. Monitoring and reporting plan to ensure applicable water quality objectives are met. This includes schedule of work including Temporary BMP implementation as part of the Construction Site BMP strategy, and SWPPP or WPCP as applicable. Use with section 13-3.01A.
9. Details of the pumping system, if used, including power source, debris handling, fish screens, and monitoring requirements.
10. Fish passage plan, following the Caltrans Fish Passage Design for Road Crossings, CA Department of Fish and Wildlife (CDFW), CA Salmonid Stream Habitat Restoration Manual, and National Marine Fisheries Service (NMFS), Guidelines for Salmonid Passage at Stream Crossings, as required by the applicable PLACs.
11 The TCDS design must demonstrate how it will comply with section 13-12.03A, water tightness, and prevent seepage.
12. Contingency plan to remove workers, equipment, materials, fuels, and any other work items that will cause pollution or violation of PLACs during a rain event out of the flow area. Develop the contingency plan for when a 12-inch freeboard cannot be maintained and overtopping of the coffer dams may occur.

If revisions are required, the Engineer notifies you of the date when the review stopped and provides comments. Submit a revised TCDSP within 15 days of receiving the comments. The Department's review resumes when a complete TCDSP has been resubmitted.

Submit an electronic copy on a read-only CD, DVD, or other Engineer-authorized data storage device and

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4 printed copies of the authorized TCDSP.
If the RWQCB or other regulatory agency requires review of the authorized TCDSP, the Engineer submits it to the RWQCB for review and comment. If the Engineer orders changes to the TCDSP based on the RWQCB's comments, submit a revised TCDSP within 10 days.
All submittals which include plans, specifications, and calculations must be sealed and signed by a civil engineer registered in the State.

13-12.01D Quality Assurance

Not Used

13-12.02 MATERIALS

13-12.02A Gravel

Gravel must:

1. Be river run gravel obtained from a river or creek bed with gradation of 100 percent passing a 3/4 inch sieve and 0% passing a 3/8 inch sieve
2. Be clean, hard, sound, durable, uniform in quality, and free of any detrimental quantity of soft, thin, elongated or laminated pieces, disintegrated material, organic matter, or other deleterious substances
3. Be composed entirely of particles that have no more than 1 fractured face
4. Have a cleanliness value of at least 85, as determined by California Test 227

13-12.02B Impermeable Plastic Membrane

Impermeable plastic membrane must be:

1. Single ply, commercial quality, polyethylene with a minimum thickness of 10 mils complying with ASTM D2103. You must use stronger plastic membrane if required as part of design to resist hydraulic forces.
2. Free of holes, punctures, tears or other defects that compromise the impermeability of the material.
3. Suitable for use as an impermeable membrane.
4. Resistant to UV light, retaining a minimum grab breaking load of 70 percent after 500 hours under ASTM D4355.

13-12.02C Gravel-Filled Bags

Gravel-filled bags must comply with section 13-5.02G.
The 2nd paragraph of section 13-5.02G does not apply.

13-12.02D Plastic Pipes

Plastic pipe must comply with section 61-3.01 and must:

1. Be clean, uncoated, in good condition free of rust, paint oil dirt or other residues that could potentially contribute to water pollution
2. Be adequately supported for planned loads
3. Use watertight joints under section 61-2.01.
4 Be made of a material or combination of materials that are suitable for clean water and which do not contain banned, hazardous or unlawful substances
5. For temporary pipes not reused on the project you may use the following materials:
   5.1. PVC closed-profile wall pipe must comply with ASTM F1803
   5.2. PVC solid wall pipe must comply with ASTM D3034, ASTM F679, AWWA C900, AWWA C905, or ASTM D2241 and cell class 12454 defined by ASTM D1784
   5.3. HDPE solid wall pipe must comply with AASHTO M 326 and ASTM F714
   5.4. Polyethylene large-diameter-profile wall sewer and drain pipe must comply with ASTM F894

13-12.02E Rock

Rock layer must comply with the table titled *Rock Gradation for 7-inch-thick Layer* in section 72-4.02.

13-12.02F Pumping System

Pumping system must:

1. Comply with section 74-2.02B
2. Be equipped with secondary containment

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3. Be free of fuel and oil leaks
4. Meet intake screen regulatory requirements

13-12.02G Seepage Pumping System

If seepage occurs in the dewatered work area, the water must be removed by sump pumps as part of the TCDS.
Seepage pumping system must:
1. Comply with section 74-2.02B
2. Ensure discharge water conform with PLACs or is treated on site
3. Be free of fuel and oil leaks

13-12.02H Discharge Water Energy Dissipation and Erosion Control

Discharge water from pumps, pipes, ditches, or other conveyances must have BMPs to dissipate the flows and velocity of water discharged from the temporary diversion system if erosion would otherwise occur.
Energy dissipation measures:
1. May be plastic sheeting, flared end sections, rubber matting, or other materials appropriate for the design hydraulics
2. Must be anchored to prevent movement by expected flows
3. Must be removed when the TCDS is removed

13-12.03 CONSTRUCTION

13-12.03A General

Construction, use and removal of the TCDS is restricted to the time period from June 1 to October 31. If the work cannot be completed during the initial restricted time period, remove TCDS, restore the creek to original flow condition, and reconstruct the TCDS after June 1 of the following year. No work is allowed within the stream except during the restricted time period.
Do not use motorized equipment or vehicles in areas of flowing or standing water for the construction or removal of the TCDS in compliance with section 13-4.03.
Remove vegetation to ground level and clear away debris.
Place temporary or permanent fill as allowed by PLACs.
Place rock at outlet of diversion pipe under section 72-4.03, except motorized vehicles and equipment must not be used in areas of flowing or standing water.
Do not construct or reconstruct TCDS if the 72-hour forecasts predict a 50 percent or greater chance of rain in the project area.
Stop allwork and remove all material and equipment from the creek between upstream and downstream cofferdams if the 72-hour forecasts predict a 50 percent or greater chance of rain in the project area and the predicted rainfall is estimated to produce a flow rate exceeding the design capacity of the TCDS.
If the required freeboard cannot be maintained and overtopping may occur, implement contingency plan to remove all workers, equipment, and potential sources of pollution from the dry working area of the creek bed.
The TCDS must be constructed within the temporary impact footprint as described in the environmental commitments.
Lap and join joints between the edges of impermeable plastic membrane with commercial-quality waterproof tape with minimum 4-inch lapping at the edges.
Seal openings or penetrations through the impermeable plastic membrane with commercial quality waterproof tape.
The TCDS must be water tight to keep the work area dry for construction and prevent the creation of pollutants. Maintain all portions of the TCDS and fix leaks as soon as they are discovered.
Contact water agencies that discharge to the construction area to ensure that unexpected water is not discharged during construction which could compromise the TCDS.

13-12.03B Maintenance

Maintain the TCDS to provide a minimum freeboard of 12 inches between the water surface and the impermeable top of the cofferdams.

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Do not discharge runoff from existing or proposed drainage systems into the dry work area between the cofferdams. Runoff from these systems may be connected to the diversion pipe or conveyed by pipes downstream of the cofferdam.
Prevent leaks in the TCDS. Provide seepage pumps as necessary and keep the work area dry to prevent the creation of sediment-laden water.
Repair holes, rips and voids in the impermeable plastic membrane with commercial-quality waterproof tape. Replace impermeable plastic membrane when patches or repairs compromise the impermeability of the material.
Repair TCDS within 24 hours after the damage occurs.
Prevent debris from entering the TCDS and receiving water.
Remove and immediately replace gravel, gravel-filled bags, impermeable plastic membrane, or plastic pipes contaminated by construction activities.
Remove sediment deposits and debris from the TCDS as needed. If removed sediment is deposited within project limits, it must be stabilized and not subject to erosion by wind or water, under sections 19-1.01 and 19-2.03 B.

13-12.03C Removal

When no longer required, remove all components of TCDS. Return the creek bed and banks to the original condition.
Do not excavate the native creek material. Backfill ground disturbance, including holes and depressions caused by the installation and removal of the TCDS with gravel. Maintain the original line and grade of the creek bed.

13-12.04 PAYMENT

Not Used

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14 ENVIRONMENTAL STEWARDSHIP

bid item number bid item Add to the end of section 14-1.02:

An ESA exists on this project.
Before starting job site activities, install THVF to protect the ESA and mark its boundaries.

Add to the 1st paragraph of section 14-6.03A:

This project is within or near habitat for the regulated species shown in the following table:

Regulated Species

Northern Western Pond Turtle
Giant Garter Snake
Swainson's Hawk
Valley Elderberry Longhorn Beetle
White Tail Kite
Western Red Bat

This project includes the sensitive habitats shown in the following table:

Sensitive Habitats

Essential Fish Habitat (Littlejohns Creek)
Northern Pond Turtle (Littlejohns Creek)
Giant Garter Snake (Littlejohns Creek and Grass Uplands)

Add to section 14-6.03A:

Replace the 2nd paragraph of section 14-6.03B with:

The Department anticipates nesting or attempted nesting by migratory and nongame birds from February 1 to September 15.

Replace item 1 in the list in the 6th paragraph of section 14-6.03B with:

1. Stop all work within a 100-foot radius of the discovery except as shown in the following table:

Species	Protective radius (feet)
Swainson's Hawk	600

list in the 2nd paragraph of section 14-6.03D(1) with:

6. Develop fish exclusion plan
7 Prepare, conduct and monitor Mandatory Environmental Awareness Training under 14-6.03D(3).

Replace the 2nd and 3rd paragraphs of section 14-6.03D(1) with:

The Contractor-supplied biologist must implement monitoring and reporting requirements described in the natural resources protection plan.

Add to section 14-6.03D(1):

A Contractor-supplied biologist must be qualified by California Department of Fish and Wildlife and the U.S. Fish and Wildlife Service prior to the commencement of work.

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Survey the job site for regulated species and submit a preconstruction survey report before starting work as required by PLACs.
The preconstruction survey report must include one of the following:
1. Detailed observations and locations where regulated species were observed
2. Statement that no regulated species were observed

Submit an initial monitoring report as an informational submittal after starting ground-disturbing activities as required by PLACs.
Submit a biological resource incident report as required by PLACs.
The incident report must include:
1. Description of any take of regulated species or any violation of a biological resource PLAC
2. Species name and number taken
3. Details of required notifications with contact information
4. Corrective actions proposed or taken
5. Disposition of taken species

Submit a final monitoring report after completion of the project as required by PLACs. If the report requires revisions, the Department provides comments. Submit a revised report within 7 days of receiving comments. The final monitoring report must be a cumulative report including:
1. Start and end dates of construction
2. Project impacts on the regulated species
3. Species protection measures and implementation details
4. Incidental take details, including species name, number taken, people contacted, contact information, and disposition of taken species
5. Assessment of the effectiveness of the species protection measures in mitigating project impacts
6. Recommendations for improving species protection measures

Replace *Reserved in* section 14-6.03D(3) with:

Prepare and present a biological resource information program to familiarize personnel with regulated species and habitats, related laws and regulations, and species protection measures and protocols.
The biological resource information program must include:
1. Identification of the job site, ESAs, and species protection areas
2. Description of the regulated species and its general ecology
3. Description of habitats used by the regulated species and their locations
4. Requirements for protecting regulated species
5. Definition and consequences of take of regulated species
6. Response plan for encounters with the regulated species or a species that looks like one
7. Permit requirements for touching or moving a regulated species
8. Requirements for species protection
9. Description of avoidance and minimization measures
10. Handout materials about the regulated species, its habitats, and species protection measures

A Contractor-supplied biologist must develop the program and present the biological resource training. Submit an outline of your program within 7 days after Contract approval. If the submittal is rejected, submit a revised outline within 7 days of receiving the rejection.
Notify the Engineer at least 7 days before the 1st training session. Submit an attendance list with the printed and signed name of each attendee within 2 business days after each session. Submit a separate attendance list for each subsequent training session for new personnel.
Personnel who must complete biological resource training include laborers, tradesmen, material suppliers, equipment maintenance staff, supervisors, foremen, office staff, food vendors, and other workers who stay at the job site longer than 30 minutes.
Provide hard-hat stickers to personnel who have completed the biological resource information training. The sticker must show the following information:
1. Title of training
2. Date of completion

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Provide a handout that describes the regulated species, their habitats, and protection measures as listed in species protection or in PLACs.
Distribute the handout to each attendee. Display and maintain the handout at all construction field offices and on all information boards.

14-10 SOLID WASTE DISPOSAL AND RECYCLING

14-10.02 SOLID WASTE DISPOSAL AND RECYCLING REPORT, delete.

Replace section 14-11.08 with:

14-11.08 REGULATED MATERIAL CONTAINING AERIALLY DEPOSITED LEAD

14-11.08A General

Section 14-11.08 includes specifications for management of regulated material containing ADL Management of the material includes:

1. Excavating
2. Loading and unloading containers or trucks
3. Stockpiling
4. Transporting
5. Placing
6. Disposal

Manage regulated material containing ADL under the rules and regulations of the following agencies:

1. US Department of Transportation
2. US EPA
3. California Environmental Protection Agency
4. CDPH
5. DTSC
6. Cal/OSHA
7. California Department of Recycling and Recovery
8. California Air Resources Board
9. RWQCB, Region ___, _____
10. _____AQMD

The Department entered into agreement Docket No. ESPO-SMA 15/16-001 Soil Management Agreement for Aerially Deposited Lead-Contaminated Soils with the DTSC (ADL Agreement) regarding the management of regulated material containing ADL. As the responsible entity and the generator of waste, only the Department determines material classification. For the ADL agreement, go to the Caltrans Hazardous Waste Management website.
Regulated material containing ADL is present within the project limits and the ADL Agreement applies. Management of regulated material containing ADL exposes workers to health hazards that must be addressed in your lead compliance plan under section 7-1.02K(6)(j)(ii).

14-11.08B Definitions

average ADL concentration: Average ADL concentration calculated using the 95 percent upper confidence limit.

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commercial/industrial property: Property that is not and will not be used for any type of housing, including but not limited to, apartment, motel, hotel, farm, ranch, or any other type of property, including but not limited to, daycare, park, school, hospital, university, which could allow occupants to reside on the property now or in the future or would lead to daily, repeated, long term exposure to the material.

regulated material: ADL-contaminated material that has average ADL concentrations over 80 mg/kg total lead or equal to or greater than 5 mg/L soluble lead tested using the California Waste Extraction Test (CA-WET) or equal to or greater than 5 mg/L soluble lead tested using the Toxicity Characteristic Leaching Procedure (TCLP).

Type Com: Regulated material that the Department may designate to be reused on the highway or disposed on a commercial/industrial property or at an appropriately permitted California Class II or California class III disposal facility. Type Com material has average ADL concentrations less than 5.0 mg/L soluble lead and more than 80 mg/kg total lead but not exceeding 320 mg/kg total lead. The soluble lead is tested using the CA-WET.

Type R-1: Regulated material that may be reused on the job site if placed at least 5 feet above the maximum historical elevation of the water table and covered with at least 1 foot of Type Com or unregulated material with a pH greater than 5 or pavement.

Type R-2: Regulated material that may be reused on the job site if placed at least 5 feet above the maximum historical elevation of the water table and covered with pavement.

Type Z-0: Regulated material that must be disposed of at an appropriately permitted California Class II or California Class III disposal facility. Type Z-0 has average ADL concentrations:

1. Greater than 320 mg/kg total lead but less than 1,000 mg/kg total lead
2. Less than 5.0 mg/L soluble lead as tested using the CA-WET

Type Z-2: Regulated material that is a Department-generated California hazardous waste that must be disposed of at an appropriately permitted California Class I disposal facility. Type Z-2 material has average ADL concentrations greater than or equal to 1,000 mg/kg total lead or 5.0 mg/L soluble lead as tested using the CA-WET.

Type Z-3: Regulated material that is a Department-generated federal hazardous waste that must be disposed of at a California Class I disposal facility. This material has average ADL concentrations equal to or greater than 5.0 mg/L soluble lead as tested using the TCLP.

14-11.08C Site Conditions

Concentration data and sample location maps for regulated material are included in the *Information Handout*.

Type Com material exists from the surface to below the existing grade as shown and listed in the following table:

Location	Elements of work	Depth
Sta ____+__ to Sta ____+__ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____
PM___ to PM____ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____

Type R-1 material exists from the surface to below the existing grade as shown and listed in the following table:

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Location	Elements of work	Depth
Sta ____+__ to Sta ____+__ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____
PM___ to PM____ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____

Type R-2 material exists from the surface to below the existing grade as shown and listed in the following table:

Location	Elements of work	Depth
Sta ____+__ to Sta ____+__ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____
PM___ to PM____ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____

Type Z-0 material exists from the surface to below the existing grade as shown and listed in the following table:

Location	Elements of work	Depth
Sta ____+__ to Sta ____+__ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____
PM___ to PM____ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____

Type Z-2 material exists from the surface to below the existing grade as shown and listed in the following table:

Location	Elements of work	Depth
Sta ____+__ to Sta ____+__ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____
PM___ to PM____ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____

Type Z-3 material exists from the surface to below the existing grade as shown and listed in the following table:

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Location	Elements of work	Depth
Sta ____+__ to Sta ____+__ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____
PM___ to PM____ Rt/Lt____	Lane/Shoulder widening Maintenance vehicle pullout Place HMA Dike Reconstruct drainage facility	____to____

14-11.08D Submittals

14-11.08D(1) General

Not Used

14-11.08D(2) Perimeter Air Monitoring Requirements

Include perimeter air monitoring under section 14-11.08F as part of your lead compliance plan. Include:

1. Location and type of equipment
2. Sampling frequency
3. Name and address of the laboratory that will perform the analyses

Not Used

14-11.08D(3) Excavation and Transportation Plan

Within 15 days of Contract approval, submit 3 copies of an excavation and transportation plan for regulated material. Allow __ days for review. If the plan requires revisions, the Department provides comments. Submit a revised plan within 7 days of receiving comments. The Engineer may allow construction to proceed while minor revisions or amendments are being completed.

The excavation and transportation plan must comply with:

1. DTSC regulations
2. ADL Agreement
3. Cal/OSHA regulations

The excavation and transportation plan must include:

1. Procedures for managing the material.
2. Excavation schedule by location and date.
3. Locations for temporary stockpiles.
4. Survey methods for burial locations for Type R-1 or Type R-2 material.
5. Type R-1 material soil cover source area.
6. Dust control measures.
7. Air monitoring locations.
8. Transportation equipment and routes.
9. Method for preventing spills and tracked material onto public roads.
10. Truck waiting and staging areas.
11. If Type Com material will be disposed of, name and contact information for property owners accepting Type Com material and addresses of property where Type Com material will be disposed of as listed on the forms titled "Agreement between a Contractor Working on State Facilities and a Real Property Owner for Disposing Construction Related Material on Commercial Zoned Property Owner's Property" or the name and address of the California Class II or California Class III disposal facility accepting it.
12. Name and address of the California Class II or California Class III disposal facility where Type Z-0 material will be disposed of.
13. Name and address of the California Class I disposal facility where hazardous waste will be disposed of.14. Example of a bill of lading to be carried by trucks transporting Type R-1, Type R-2, Type Com, or Type Z-0 material on public roads outside the controlled access construction zone. The bill of lading must include:
    14.1. US Department of Transportation description, including shipping name

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14.2. Hazard class
14.3. Identification number
14.4. Handling codes
14.5. Quantity of material
14.6. Volume of material

15. Spill contingency plan for regulated material containing ADL.
16. Copies of the contract plan sheets where the location and depth of the existing regulated material are shown, as an attachment.
17. Copies of the contract plan sheets where the location and depth of Type R-1 or Type R-2 material burial locations are shown, as an attachment.

14-11.08D(4) Burial Location Report

Within 5 business days of completing placement of Type R-1 or Type R-2 material at a burial location, submit a report for that burial location that includes:

1. "Burial Location of Soil Containing Aerially Deposited Lead (Topographic Survey)" form
2. Electronic geospatial vector survey data shapefiles of the top and bottom of the burial location with polygon feature classes containing the location and attributes of the burial site. Provide polygon feature classes in a shapefile that is comprised of a minimum of four files with the extensions of .shp, .shx, .dbf and .prj. Include the following attribute data:
   2.1. Contractor
   2.2. Contract number
   2.3. District
   2.4. County
   2.5. Route
   2.6. PM Start
   2.7. PM End
   2.8. Project EA
   2.9. Project name
   2.10. Burial location number

Submit the report to the Engineer and to:
ADL@dot.ca.gov

The Engineer notifies you of acceptance or rejection of the burial location report within 5 business days of receipt. If the report is rejected, you have 5 business days to submit a corrected report. Each burial location report prepared for a survey required under section 14-11.08I, including electronic files, is considered a submittal required by the contract. Failure to submit more than one submittal required by section 14-11.08I is considered multiple performance failures under section 9-1.16E(3).
Not Used

14-11.08D(5) Bill of Lading

Submit copies of the bills of lading used as an informational submittal upon placement of Type Com, Type R-1, or Type R-2 material in its final location.
Submit copies of the bills of lading used to transport Type Z-0 or surplus Type Com material for disposal within 5 business days of disposal.
Not Used

14-11.08D(6) Disposal Documentation

Submit documentation from the receiving property owner or disposal facility confirming appropriate disposal within 5 business days of transporting Type Com material from the job site.
Submit documentation from the receiving disposal facility confirming appropriate disposal within 5 business days of transporting Type Z-0, Type Z-2, or Type Z-3 material from the job site.
Not Used

14-11.08E Dust Control

Prevent visible dust migration under section 14-11.04 during management of regulated material.

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14-11.08F Air Monitoring

Conduct perimeter air monitoring at upwind and downwind locations as detailed in the authorized lead compliance plan. Monitor using personal air samplers by the National Institute of Safety and Health Method 7082. Your sampling procedures must achieve a detection limit of 2.6 µg/m3 of air per day. Under the direction of a CIH, monitor the air daily while clearing and grubbing and performing earthwork activities. Analyze a single representative daily sample for lead and provide results within 24 hours. Analyses must be performed by a laboratory accredited by the Environmental Lead Laboratory-Accreditation Program of the American Industrial Hygiene Association.

Daily lead concentrations must not exceed 2.6 µg/m3 of air per day. If a daily concentration exceeds 2.6 µg/m3 of air per day, stop work and modify the work to prevent release of lead. The air monitoring data must be reviewed and signed by the CIH.

Not Used

14-11.08G Stockpiling

Stockpile Type Com, Type R-1, and Type R-2, material under section 14-11.05 for no more than 90 days. The Department does not pay for stockpiling unless stockpiling is ordered.

Do not stockpile Type Com material. Excavate and load Type Com material directly from the excavation to containers or trucks for transportation to the placement location. Excavate and load surplus Type Com material directly from the excavation to containers or trucks for transportation to the disposal site.

Do not stockpile Type R-1 or Type R-2 material. Excavate and load Type R-1 and Type R-2 material directly from the excavation to containers or trucks for transportation to the burial location.

Do not stockpile Type Z-0, Type Z-2, or Type Z-3 material. Transfer Type Z-0, Type Z-2, and Type Z-3 material directly from the excavation to containers or trucks for transportation to the disposal facility.

14-11.08H Placement

Place Type Com, Type R-1 and Type R-2 material as shown.

Cover for Type R-1 must comply with section 6-1.03B.

Not Used

14-11.08I Surveying Burial Site

Topographically survey the location of the bottom and top of each area where you bury Type R-1 or Type R-2 material (burial locations). Topographic surveys must be performed by or under the direction of one of the following:

1. Land surveyor licensed under the Bus & Prof Code Ch 15, starting with § 8700
2. Civil engineer licensed before January 1, 1982 under the Bus & Prof Code Ch 7 starting with § 6700

At a minimum, topographic surveys consist of collecting northing, easting, and elevation information of survey points along cross sections lines of the Type R-1 or Type R-2 material burial locations, where the cross section line intervals are 25 feet, at a maximum, with a minimum of 5 cross sections surveyed per burial location. Collect a survey point at each change in terrain elevation with a minimum of 5 survey points per cross section line. The same cross section lines are used to survey the ground surface just before placing Type R-1 or R-2 material and used to survey the finished grade immediately after the placement of the Type R-1 or Type R-2 material.

Report each burial location in California state plane coordinates in US survey feet within the appropriate zone of the California Coordinate System of 1983 (CCS83) and in latitude and longitude. Reference horizontal positions to CCS83. Use epoch _____. Perform the survey to a horizontal accuracy of 0.3 ft as described in Figure 5.1A of the Caltrans Surveys Manual. Reference each horizontal position to a roadway horizontal alignment, indicating a station and offset. The elevation of points identifying the burial location must locate the bottom and top of Type R-1 or R-2 material to an accuracy of 0.3 ft vertically. Reference elevations of the bottom and top of Type R-1 or R-2 material to the project vertical datum. Report accuracy of spatial data in US Survey feet under Caltrans Orders of Accuracy in the Caltrans Surveys Manual Chapter 5.

Not Used

14-11.08J Material Transportation

Before traveling on public roads outside the controlled access construction zone, remove loose and extraneous regulated material from outside surfaces of containers and the cargo areas of trucks. Place tarpaulins or other cover over the cargo as described in the authorized excavation and transportation

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plan. You are responsible for costs due to spillage of regulated material during transport. Transportation routes for Type R-1 or Type R-2 material must only include the highway within the job site limits.
Use a bill of lading while transporting excavated Type Com, Type R-1, Type R-2, or Type Z-0 material on public roads outside of the controlled access construction zone.
Transport excavated Type Z-2 and Type Z-3 material using:
1. Hazardous waste manifest
2. Hazardous waste transporter with a current DTSC registration certificate and CA Highway Patrol (CHP) Basic Inspection of Terminals (BIT) Program documentation with a satisfactory rating.

14-11.08K Disposal

14-11.08K(1) General

Laws and regulations that govern disposal of regulated material include:
1. Health & Safety Code § 25100 et seq
2. 22 CA Code of Regs § 66250 et seq
3. 8 CA Code of Regs

The Department does not pay for additional sampling and analysis required by disposal facilities.

14-11.08K(2) Type Com Material

Dispose of _____ Type Com material.
Submit at least 15 days before disposal, the form titled "Agreement between a Contractor Working on State Facilities and a Real Property Owner for Disposing Construction Related Material on Commercial Zoned Property Owner's Property" which discloses the lead concentration of the material to the receiving property owner and obtains authorization for disposal on the property. Give a copy of the signed form to the property owner. You are responsible for any additional sampling and analysis required by the receiving property owner.
If you choose to dispose of Type Com material at a commercial landfill:
1. Transport it to a Class III or Class II landfill appropriately permitted to receive the material
2. You are responsible for identifying the appropriately permitted landfill to receive the material and for all associated trucking and disposal costs, including any additional sampling and analysis required by the receiving landfill

Not Used

Add to the 1st paragraph in section 14-11.13A:

The existing paint system on bridge no. 29C0038 will be disturbed as part of the work activities. The paint system contains lead.

Replace section 14-11.13B(3) with:

14-11.13B(3) Air Monitoring Reports

Air monitoring reports, including test results for samples taken after corrective action, must be prepared by the CIH and submitted:
1. Orally within 48 hours after sampling
2. As an informational submittal within 5 days after sampling

Air monitoring reports must include:
1. Date and location of sample collection, sample number, Contract number, bridge number, name of the structure, and District-County-Route-Post Mile
2. Name and address of the certified laboratory that performed the analyses
3. Chain of custody documentation
4. List of emission control measures in place when air samples were taken
5. Air sample results compared to the appropriate permissible exposure limit (PEL)
6. Corrective action recommended by the CIH to ensure exposure to airborne metals outside containment systems and work areas is within specified limits
7. Signature of the CIH who reviewed the data and made recommendations

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Replace section 14-11.13B(4) with:

14-11.13B(4) Soil Sampling Results for Debris Containment Verification

Submit test results of soil analyses verifying debris containment, including results for soil samples taken after corrective action:

1. Orally within 48 hours after sampling
2. Within 5 days after sampling

Soil sampling results must include:

1. Date and location of sample collection, sample number, Contract number, bridge number, name of the structure, and District-County-Route-Post Mile
2. Concentrations of heavy metals expressed in mg/kg and mg/L
3. Name and address of the certified laboratory that performed the analyses
4. Chain-of-custody documentation

Replace section 14-11.13D with:

14-11.13D Work Area Monitoring

14-11.13D(1) General

Monitor the ambient air and soil in and around the work area to verify the effectiveness of the containment system. Work area monitoring includes:

1. Collecting, analyzing, and reporting air and soil test results
2. Recommending corrective action whenever specified air or soil concentrations are exceeded

Collect air and soil samples at locations designated by the Engineer.

14-11.13D(2) Air Monitoring

Air monitoring must be performed under the direction of a CIH.

Collect and analyze air samples to detect lead under the NIOSH Method 7082 using a detection limit of at least 0.05 µg/m3. Collect and analyze air samples to detect other metals under NIOSH Method 7300 using a detection limit of at least 1 percent of the appropriate PEL specified by Cal/OSHA. You may use alternative methods of sampling and analysis with equivalent detection limits.

Concentrations of airborne metals outside containment systems and work areas must not exceed any of the following:

1. Average of 1.5 µg/m^3 of air per day and 0.15 µg/m^3 per day on a rolling 90-day basis. Calculate the average daily concentrations based on accumulated monitoring data and projections based on monitoring trends for the next 90 days or to the end of the work subject to the lead compliance plan if less than the specified averaging period.
2. 10 percent of the action level specified for lead by 8 CA Code of Regs §1532.1.
3. 10 percent of the appropriate PELs specified for other metals by Cal/OSHA.

Collect air samples daily during work activities that disturb the existing paint system. Air samples must be analyzed within 48 hours by a facility accredited by the Environmental Lead Laboratory Accreditation Program of the American Industrial Hygiene Association. If concentrations of airborne metals exceed allowable levels, modify the containment system or work activities to prevent further release of metals. If the CIH recommends corrective action, collect and analyze additional samples after implementing the corrective action unless ordered otherwise.

Add to the beginning of section 14-11.13G(2):

After the Engineer accepts the waste characterization test results, dispose of the debris:

1. Within 30 days after accumulating 220 lb of debris
2. At a DTSC-permitted Class I facility located in California

Make all arrangements with the operator of the disposal facility.

If less than 220 lb of hazardous waste is generated in total, dispose of it within 30 days after the start of the accumulation of the debris.

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Replace the RSS for section 14-11.14 with:

14-11.14 TREATED WOOD WASTE

14-11.14A General

Section 14-11.14 includes specifications for handling, storing, transporting, and disposing of treated wood waste. Treated wood waste is a Department-generated hazardous waste. Manage treated wood waste under section 14-11.07.

Wood removed from guardrail is treated wood waste.

14-11.14B Storage of Treated Wood Waste

Until disposal, store treated wood waste in metal containers approved by the US Department of Transportation for the transportation and temporary storage of hazardous waste.

14-11.14C Transport and Disposal of Treated Wood Waste

Transport and dispose of treated wood waste. Dispose of treated wood waste at a California disposal site operating under a DTSC permit.

If less than 220 lb of hazardous waste is generated in total, dispose of it within 5 days after the start of the accumulation of the debris.

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15 EXISTING FACILITIES

Add to the end of the 1st paragraph of section 15-1.03B:

except for the concrete abutments and piles, and the intermediate pier wall. Remove abutment concrete and existing piles to the bottom of the proposed abutment footings. Remove the pier wall concrete down to the top of the existing pier wall footing.

Delete the 7th paragraph of section 15-1.03B.

Delete item 2 in the list in the 7th paragraph of section 15-1.03B.

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17 GENERAL

17-2 CLEARING AND GRUBBING

17-2.03 CONSTRUCTION

17-2.03A General, replace paragraphs 4 and 5 with:

Prior to applying any surface seals or performing any paving, reconstruction, repairs, and/or shoulder backing operations, clear and grub the entire length of the job site to the limits shown on the plans and as specified in the Standard Specifications and these Special Provisions.

Unless otherwise indicated on the plans, orchards, vineyards, and/or other cultivated areas must be protected in place.

17-2.03B Clearing, replace section with:

For roadway areas without existing curb or sidewalk:

1. Clear the area above the ground of all objectionable material including: trees, vines, logs, upturned stumps, downed trees, plants, brush grass, weeds, concrete, masonry, and cold-mix asphalt concrete along edge of pavement.

2. Tree branches extending over the roadway pavement and which hang within 15 feet of the finished grade must be cut off in a workmanship like manner. Cut other branches to give each tree a balanced appearance. Pruning must include removal of deadwood, suckers, and broken and bruised branches 1 inch or larger in diameter. Cut off branches close to the trunk in accordance with section 20-3.01C(2), “Pruning.”

3. Trim oversized vegetation/trees that obstruct the visibility of traffic control devices and construction area signs.

For roadway areas with existing curb and/or sidewalk that are to remain in place:

1. Clear and grubbing consists of removing objectionable material from curb, gutter, and sidewalks construction areas.

2. Unless otherwise shown on the plans, only trim oversized vegetation/trees that obstruct the visibility of traffic control devices and construction area signs.

3. All shade and ornamental trees behind said existing facilities must be preserved unless otherwise designated on the plans for removal.

4. Plants and lawn must be preserved adjacent to new shoulder construction where natural ground surface and finished grade are compatible, unless otherwise designated on the plans or directed by the Engineer.

For roadway areas that are to be widened, and/or that consist of existing curb and/or sidewalk

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areas that are to be reconstructed:

1. Clear the area above the ground of all objectionable material including: trees, vines, logs, upturned stumps, downed trees, plants, brush grass, weeds, concrete, masonry, and cold-mix asphalt concrete.

2. Tree branches extending over the roadway pavement and which hang within 15 feet of the finished grade must be cut off in a workmanship like manner. Cut other branches to give each tree a balanced appearance. Pruning must include removal of deadwood, suckers, and broken and bruised branches 1 inch or larger in diameter. Cut off branches close to the trunk in accordance with section 20-3.01C(2), "Pruning."

3. Trim oversized vegetation/trees that obstruct the visibility of traffic control devices and construction area signs.

Unless otherwise shown on the plans, existing driveway pipe culverts will remain in place.

17-2.03D Disposal of Materials, replace paragraph 1 with:

Unless the contract includes a bid item for Duff as specified in section 21-2.02B, "Duff," dispose (off-site) of objectionable materials resulting from clearing and grubbing activities.

17-2.04 PAYMENT, replace "Not Used" with:

Clearing and Grubbing, as described, is paid for at the contract lump sum price. When existing driveway pipe culverts are shown on the plans to be removed or salvaged, full compensation for the shown work, must be considered as included in the Clearing and Grubbing pay item. Unless there is a separate bid item for the removal of trees, full compensation for the removal and disposal of trees must be considered as included in the Clearing and Grubbing pay item.

When the contract does not include a separate bid item for clearing and grubbing, clear and grub only what is necessary in order to perform the specified construction operations. Full compensation for said work must be considered as included in the contract prices paid for the various items of work involved.

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19 EARTHWORK

19-3 STRUCTURE EXCAVATION AND BACKFILL

Add to the end of section 19-3.01A:

Structure backfill includes constructing the geocomposite drain system. The systems must comply with section 68-7.

19-3.03 CONSTRUCTION

19-3.03E Structure Backfill

19-3.03E(1) General, replace sentence 3 of paragraph 1 with:

Backfill layers must be at most 0.67 foot thick.

19-3.03E(1) General, replace paragraphs 5 and 6 with:

Ponding and jetting will not be permitted.

19-3.03E(1) General, add between paragraphs 7 and 8:

Compaction and Material Requirements: Unless otherwise shown on the plans, the compaction and material requirements within the limits of structure backfill for pipes and arches must be as follows:

(a) From the bottom of the trench to one-half of the outside diameter of the pipe must be no less than 95 percent relative compaction.

(b) From one-half the outside diameter of the pipe to 3 feet below finish grade must be no less than 85 percent relative compaction. Backfill material must be selected material from structure excavation.

(c) From 3 feet below finish grade to the finish grade of pavement must be no less than 95 percent relative compaction.

(d) From 3 feet below finish grade to the finish grade outside of pavement must be no less than 90 percent relative compaction.

Unless otherwise specified, structure backfill outside of the paved portions of the roadway must be native material selected for its resistance to erosion.

19-3.04 PAYMENT, add:

When the contract does not include a separate bid item for **Structure Excavation and Backfill**, full compensation for performing structure excavation and backfill must be considered as included in the contract prices paid for the various items of work involved.

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Add to section 19-7.02A:

Obtaining imported borrow includes the following:

1. Constructing an access road as shown.
2. Clearing and grubbing the material site.
3. Selecting material within the source.
4. Screening and wasting from 30 to 60 percent of the finer material.
5. Washing materials so that the imported borrow complies with the sand equivalent requirements.

Add to section 19-7.02C:

Imported borrow placed within 4 feet of the finished grade must have an R-value of at least 15.

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21 EROSION CONTROL

Replace section 21-2.02K with:

21-2.02K Compost

Compost must be derived from one or a combination of the following types of materials:

1. Green material consisting of chipped, shredded, or ground vegetation or clean, processed, recycled wood products
2. Biosolids
3. Manure
4. Mixed food waste

Compost must not be derived from mixed municipal solid waste and must not contain paint, petroleum products, pesticides, or other chemical residues harmful to plant or animal life. Metal concentrations in compost must not exceed the maximum listed under 14 CA Code of Regs § 17868.2.
Process compost materials under 14 CA Code of Regs § 17868.3.
The particle size must comply with the requirements shown in the following table:

Compost Gradation

Quality characteristic	Test method[a]	Requirement	
		Min	Max
Gradation Fine:(dry weight % passing)			
1-inch sieve	TMECC 02.02-B	100	--
3/8-inch sieve		95	--
Gradation Medium:(dry weight % passing)			
2-inch sieve	TMECC 02.02-B	95	--
3/8-inch sieve		40	55
Gradation Coarse:(dry weight % passing)			
3-inch sieve	TMECC 02.02-B	95	--
3/8-inch sieve		25	35

[a] TMECC refers to *Test Methods for the Examination of Composting and Compost*, published by the United States Department of Agriculture and the United States Compost Council (USCC).

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The quality characteristics of compost must have the values shown in the following table:

Compost

Quality characteristic	Test method[a]	Requirement	
		Fine	Medium/Coarse
pH	TMECC 04.11-A	6–8.5	6-8.5
Soluble salts (dS/m)	TMECC 04.10-A	0–10	0-10
Moisture content (% wet weight)	TMECC 03.09-A	25–60	25-60
Organic matter content (% dry weight)	TMECC 05.07-A	30–70	30-100
Maturity (seed emergence) (% relative to positive control)	TMECC 05.05-A	80 or above	80 or above
Maturity (seedling vigor) (% relative to positive control)	TMECC 05.05-A	80 or above	80 or above
Stability (mg CO_2-C/g OM per day)	TMECC 05.08-B	5 or below	8 or below
Pathogen Salmonella (most probable number per 4 grams dry weight basis)	TMECC 07.01-B	< 3	< 3
Pathogen Fecal coliform (most probable number per gram dry weight basis)	TMECC 07.01-B	< 1,000	< 1,000
Physical contaminants (% dry weight) Plastic, glass, and metal	TMECC 02.02-C	combined total: < 0.5	combined total: < 1.0
Film plastic (% dry weight)	TMECC 02.02-C	Combined total: < 0.1	Combined total: < 0.1

[a] TMECC refers to *Test Methods for the Examination of Composting and Compost*, published by the United States Department of Agriculture and the United States Compost Council (USCC).

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38 DRIVEWAYS

Replace **"38 Reserved"** with:

38-1 Driveways

38-1.01 General

Section 38-1 includes specifications for placement, repair, and/or replacement of driveways.

38-1.02 Materials

Not Used

38-1.03 Construction

Paved driveways and frontages must be sloped to drain.

38-1.04 PAYMENT

Payment quantity for all types of driveways is measured by the actual areas of graded driveways based on horizontal dimensions. Structural materials and placement will be paid for at the contract unit price for the type of hot mix asphalt used to construct the driveway.

No adjustment of compensation will be made for any increase or decrease in the quantities of Driveways, regardless of the reason for such increase or decrease. Section 9-1.06, "Changed Quantity Payment Adjustments," does not apply to pay items for Driveways.

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39 ASPHALT CONCRETE

39-1 GENERAL

39-1.02 MATERIALS, replace "Not Used" with:

Type of HMA to be produced and placed will be as shown on the plans and/or Bid Item List.

39-2 HOT MIX ASPHALT

39-2.01 GENERAL

39-2.01A(2) Definitions, revise definition of "miscellaneous areas" and add item 8 to said revised definition as follows:

miscellaneous areas: Areas outside and inside the traveled way and shoulders such as:

8. Skin patches on roadway

39-2.01A(3) Submittals

39-2.01A(3)(b) Job Mix Formula

39-2.01A(3)(b)(i) General, delete paragraph 3 and add:.

Submit Job Mix Formula Proposals for HMA mix designs before HMA production at least 10 working days prior to the construction start date.

39-2.01A(3)(c) Quality Control Plan, replace sentence 1 of paragraph 1 with:

QC plans are only required for all types of RHMA.

39-2.01A(4)(i)(ii) In-Place Density, replace section with:

The Engineer tests for Percent of Maximum Theoretical Density using California Test 375 (ASTM D2950 (c)), "Determining the In-Place Density and Relative Compaction of Hot Mix Asphalt Pavement Using Nuclear Gages," and Maximum Theoretical Density (Rice) using California Test 309, "Method of Test for Determining Theoretical Maximum Specific Gravity and Density of Hot Mix Asphalt." No single density result must represent more than the smaller of 500 tons or one day's production. Any single density result below 91% or over 97% must be subject to a reduction in pay per the following table:

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Reduced Payment Factors for Percent of Maximum Theoretical Density

HMA percent of maximum theoretical density	Reduced payment factor	HMA percent of maximum theoretical density	Reduced payment factor
91.0	0.0000	97.0	0.0000
90.9	0.0125	97.1	0.0125
90.8	0.0250	97.2	0.0250
90.7	0.0375	97.3	0.0375
90.6	0.0500	97.4	0.0500
90.5	0.0625	97.5	0.0625
90.4	0.0750	97.6	0.0750
90.3	0.0875	97.7	0.0875
90.2	0.1000	97.8	0.1000
90.1	0.1125	97.9	0.1125
90.0	0.1250	98.0	0.1250
89.9	0.1375	98.1	0.1375
89.8	0.1500	98.2	0.1500
89.7	0.1625	98.3	0.1625
89.6	0.1750	98.4	0.1750
89.5	0.1875	98.5	0.1875
89.4	0.2000	98.6	0.2000
89.3	0.2125	98.7	0.2125
89.2	0.2250	98.8	0.2250
89.1	0.2375	98.9	0.2375
89.0	0.2500	99.0	0.2500
<89.0	Remove and replace	>99.0	Remove and replace

39-2.01B(3) Asphalt Binder, replace paragraph 2 with:

Unless otherwise shown on the plans, the grade of asphalt binders for Type A HMA and RHMA-G must be PG 64-10 and PG 64-16, respectively.

39-2.01B(9) Geosynthetic Pavement Interlayer, replace paragraph 2 with:

The asphalt binder for geosynthetic pavement interlayer must be PG 70-10.

39-2.01B(10) Tack Coat, replace sentence 2 of paragraph 1 with:

Tack coat must be SS1h.

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39-2.01B(11) Miscellaneous Areas and Dikes, replace items 1 and 2 of paragraph 1 with:

1. For miscellaneous areas, use 1/2-inch Type A HMA aggregate gradation and asphalt binder Grade PG-64-10, unless otherwise shown.

2. For dikes, use 3/8-inch Type A HMA aggregate gradation and asphalt binder Grade PG-64-10, unless otherwise shown.

39-2.01C Construction

39-2.01C(2) Spreading and Compacting Equipment

39-2.01C(2)(a) General, add after item 5 of paragraph 1:

6. A ski device is required for longitudinal control. The minimum length of the device must be 27 feet.

39-2.01C(3) Surface Preparation

39-2.01C(3)(a) General, add after paragraph 1:

Existing pavement markers must be removed and disposed of, unless otherwise shown on the plans. During the removal of ceramic type pavement markers, screens or other protective devices must be furnished to contain any fragments as provided for in Section 7-1.04, "Public Safety."

39-2.01C(3)(g) Geosynthetic Pavement Interlayer, add between sentences 1 and 2 of paragraph 1:

Binder must not be placed when weather conditions will not remain suitable to complete the placement of the interlayer and hot mix asphalt resurfacing.

39-2.01C(3)(g) Geosynthetic Pavement Interlayer, replace paragraph 2 with:

Before placing the interlayer or asphalt binder:

1. Spalled areas on the existing pavement surface, less than 4 square feet and less than four 4 inches deep, must be tack coated, filled with hot mix asphalt and compacted as directed by the Engineer. Compensation for this work is considered as included in the contract unit price paid for Hot Mix Asphalt and no separate payment will be made thereof.

2. Clean the pavement of loose and extraneous material.

Placement of the interlayer must be limited to 1,500 feet in advance of the paving machine

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during any work shift unless otherwise authorized by the Engineer.

A small quantity of hot mix asphalt or sand, to be determined by the Engineer, may be spread over the fabric immediately in advance of placing hot mix asphalt surfacing in order to prevent fabric from being picked up by construction equipment. If sand is chosen to prevent interlayer pickup, it must be spread evenly at a rate not to exceed 2 pounds per square yard. The sand must be rolled into the fabric prior to placing HMA and excess sand must be swept off.

39-2.01C(3)(g) Geosynthetic Pavement Interlayer, add before paragraph 3:

Where geosynthetic pavement interlayer is shown to be placed in milled areas, increase the binder application in milled areas by an additional 0.05-0.10 gallons per square yard.

39-2.01C(3)(g) Geosynthetic Pavement Interlayer, replace sentence 1 of paragraph 7 with:

Overlap the interlayer borders between 2 to 6 inches.

39-2.01C(5) Pavement Edge Treatments, add between paragraphs 3 and 4:

Prior to placing hot mix asphalt or concrete pavement for mainline, grade the shoulder material 1-foot minimum width where the tapered edge will be placed to provide a foundation that will support the placement of the tapered edge.

If additional shoulder material is needed for foundation, import Class 2 Aggregate Base (shoulder backing) to fill in areas of low spots to provide a foundation that will support the placement of the tapered edge.

39-2.01C(5) Pavement Edge Treatments, replace paragraphs 6 and 7 with**:**

For tapered edge treatment, the angle of the slope must not deviate by more than ± 10 degrees from the angle shown. The angle will be measured from the plane of the adjacent finished pavement surface.

39-2.01C(15)(b) Method Compaction, replace paragraph 1 with:

Use method compaction when placing HMA.

39-2.01D Payment, replace section with:

Payment quantity for furnishing, placing, and compacting all types of hot mix asphalt, as described, will be measured by weight or area, whichever is shown on the Bid Item List.

Full compensation for removing pavement markers must be considered as included in the

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contract price paid for the type of hot mix asphalt involved, as shown on the Bid Item List.

When geosynthetic pavement interlayer is shown on the plans, full compensation for furnishing and placing asphalt binder for the geosynthetic pavement interlayer, including milled areas, must be considered as included in the contract price paid for **Geosynthetic Pavement Interlayer (Paving Fabric)**.
Full compensation for constructing tapered edge treatments is included in the contract price paid for the type of hot mix asphalt involved, as shown on the Bid Item List. Payment will be deducted by five dollars ($5.00) for every linear foot of tapered edge treatment not in compliance with this special provision and plan details.

When the plans require **Hot Mix Asphalt (Leveling)** or **Place Hot Mix Asphalt (Miscellaneous Areas),** but the contract does not include separate (corresponding) bid items, payment quantity for paving a leveling course or miscellaneous areas will be measured and paid for under the bid item for the type of hot mix asphalt used to perform said work.

Hot mix asphalt used for advance leveling, as provided in 39-2.02C, "Construction," when ordered by the Engineer and not shown on the plans, will be paid for by Force Account.

Payment quantity for imported shoulder backing for placement to support tapered pavement edge, as shown on the plans, is measured and paid for as Shoulder Backing.

39-2.02 TYPE A HOT MIX ASPHALT

39-2.02B(4)(b) Aggregate Gradations, replace sentence 1 and corresponding table of paragraph 1 with:

Hot Mix Asphalt (Type A) must comply with the 1/2-inch Type A HMA gradation table unless otherwise described.

39-2.02C Construction, replace sentences 1 and 2 and items 1 and 2 of paragraph 1 with:

Hot mix asphalt must be placed as follows:
1.

Total Thickness Shown on Plans[a]	No. of Layers	Top Layer Thickness (foot)		Next Lower Layer Thickness (foot)		All Other Lower Layer Thickness (foot)	
		Min.	Max.	Min.	Max.	Min.	Max.
0.24 - foot or less	1	–	–	–	–	–	–
0.25 - 0.29 foot	2	0.12	0.13	0.12	0.17	–	–
0.30 - 0.45 foot	2	0.15	0.20	0.15	0.25	–	–
0.46 - foot or more	b	0.15	0.20	0.15	0.25	0.15	0.4

a. When Geosynthetic Pavement Interlayer (Paving Fabric), mat or grid is shown to be placed between layers of HMA, the thickness of HMA above the Geosynthetic Pavement Interlayer (Paving Fabric) must be considered to be the "Total Thickness Shown on Plans" for the purpose of spreading and compacting the HMA above the

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Geosynthetic Pavement Interlayer (Paving Fabric). The minimum lift thickness of HMA over Geosynthetic Pavement Interlayer (Paving Fabric), mat or grid must be 0.12 foot.

b. At least 2 layers must be placed if total thickness is 0.45 - foot. At least 3 layers must be placed if total thickness is more than 0.45 - foot and less than 0.90 - foot. At least 4 layers must be placed if total thickness is 0.90 - foot or more. For Miscellaneous Areas or Pavement Repair, at least 2 layers must be placed if total thickness is 0.50 foot.

2. When hot mix asphalt gutters are designated on the plans, a string line or wire grade reference will be required to control longitudinal grade of the gutter. The gutter will be water tested before acceptance. The maximum deviation from a true grade must not result in ponding water for depth exceeding 0.04 foot.

39-2.02C Construction, add:

Portable delineators in conformance with Section 12-3.04, "Portable Delineators," must be furnished and placed at a maximum spacing of 300 feet on tangents and 100 feet on curves along any edge of new surfacing which has a drop off of more than 0.10 foot. Delineators must be staggered when required on both sides of traffic.

39-2.03 RUBBERIZED HOT MIX ASPHALT–GAP GRADED

39-2.03B(4)(b) Aggregate Gradations, replace paragraph 1 with:

When RHMA-G is specified for use, the corresponding gradation must comply with the 1/2-inch RHMA-G gradation table unless otherwise described.

39-3 EXISTING ASPHALT CONCRETE

39-3.03C Construction, replace “Reserved" with:

The asphalt concrete dike must be removed without damage to the adjacent pavement. Any damage that occurs to the existing pavement surface must be repaired at the Contractor's expense.

39-3.03D Payment, replace “Not Used” with:

Except for the removal of asphalt concrete dike within the limits of excavation, the payment quantity of **Remove Asphalt Concrete Dike** is the actual length measured along the top of the asphalt concrete dike prior to removal. When the contract does not include a separate bid item for removing asphalt concrete dike outside of the limits of excavation, full compensation for said work will be considered as included in the contract prices paid for the various items of work involved.

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48 TEMPORARY STRUCTURES

Replace *Reserved* under Section 48-7 with:

48-7 TEMPORARY DETOUR BRIDGE

48-7.01 GENERAL

48-7-0.1A Summary

Section 48-7 includes specifications for constructing, maintaining, and removing a temporary detour bridge.

The temporary bridge must be designed and constructed such that it is:

1. Safe and adequate.
2. Supports the required live loads.
3. Produces a completed structure that conforms to the lines and grades shown.

The temporary bridge shall be designed as a Prefabricated Modular Highway Bridge as specified in Caltrans Structure Technical Policy (STP) 17.1

48-7-01.B Definitions

Temporary Bridge – A bridge that is anticipated to be in service less than 5 years.

Modular Bridge – A temporary prefabricated modular steel panel truss bridge.

Modular Highway Bridge – A modular bridge built for carrying vehicular traffic.

48-7-01C Submittals

48-7.01C(1) General

Submit shop drawings and design calculations for temporary detour bridge. Design calculations must comply with STP 17.1

The temporary bridge shall comply with all permits, licenses, agreements, and certifications (PLAC) and environmental commitment record (ECR).

Submit a letter of certification that certifies all components of manufactured assemblies are used in compliance with the manufacturer's instructions.

Submit manufacturer's data for manufactured assemblies to verify manufacturer's instructions or perform tests demonstrating adequacy of the proposed assemblies.

Submit a letter of certification for all steel members with welded splices. The letter must certify that all welding and NDT, including visual inspection, comply with the Contract and the welding standard shown in the shop drawings. The letter must be signed by an engineered registered in the State of California. Submit the letter before erecting the members.

48-7.01C(2) Shop Drawings

Shop drawings must be submitted with supporting calculations.

Shop drawings and calculations must be signed by an engineer who is registered as a civil engineer in the State.

Submit 6 copies of shop drawings and 2 copies of design calculations. Include in the submittal:

1. Details of erection and removal activities.
2. Methods and sequences of erection and removal.
3. Assumed soil bearing values for abutment footings.
4. Design calculations including stresses and deflections in load carrying members.
5. Welding standard used for welded members.

48-7-01.D(2) Welding and Nondestructive Testing

See Section 48-2.01D(2).

Modular bridge company must authorize welding first.

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48-7.02 MATERIALS

48-7.02A Design Criteria

The Modular Highway Bridge shall be designed in accordance with the Caltrans Structure Technical Policy (STP) 17.1
The temporary bridge, bearings, substructure, and foundation must be designed in accordance with the current version of AASHTO LRFD BDS with Caltrans Amendments for the limit states: Strength I, Strength II, Strength III, Strength V, Fatigue I, Extreme Event I, Extreme Event II, Service I, and for Stability.
All bridge supports must be located outside of the active channel (ie. clear span) where the active channel is defined by the ordinary high water mark elevation.
Minimum structure width shall be 28 feet with one lane in each direction.
Barriers must be compliant with Manual for Assessing Safety Hardware (MASH).
Riding surface must have 2 inches of AC overlay (coordinate with roadway group) and the geofabric must be placed under overlay to prevent leaks between gaps in deck panels.

48-7.02B Loads

The temporary bridge shall be designed for the loads specified in Caltrans STP 17.1.4

48-7.02B(1) Stresses and Deflections

Vehicular live load HL-93 deflection must not exceed the limit of span length/800.
Abutments shall be designed to have minimal differential deflection beneath the trusses.

48-7.02B(3)(b) Timber

See Section 48-2.02B(3)(b) for timber piles.

48-7.02B(3)(c) Steel

See Section 48-2.02B(3)(c).

48-7.03 CONSTRUCTION

48-7.03A General

A representative from the modular bridge company must be onsite during construction.

48-7.03B Foundations/Abutments

Abutments should be design for both loads listed in Section 48-7.02B and installation loads.
Installation loads consists of longitudinal loads as well as vertical and lateral loads and may govern the design when a large bridge is being launched.)

The abutment backwalls shall be cast after the bridge is in place to allow for tolerances in the bridge.

All bearings on the abutment shall be set in the same plane to avoid maldistribution of stresses in the bridge.

48-7.03C Erection

The modular Bridge shall be erected in accordance with manufacturer's specifications.

48-7.03D Removal

Upon completion of the project, the temporary bridge shall be completely removed and work debris shall be removed from the project site.

48-7.04 PAYMENT

Not Used.

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49 PILING

Add to the end of section 49-1.01D(4):

Perform dynamic monitoring of the first production pile driven for each abutment or bent.

Add to section 49-1.03:

Expect difficult pile installation due to the conditions shown in the following table:

Pile location		Conditions
29C-476	All locations	Variable clay layer; dewatering requirements, proximity to existing abutments and piles.

Add to section 49-2.01A(3)(b):

Before installing driven piles, submit a driving system submittal for each pile type for each of the support locations or control zones shown in the following table:

Bridge no.	Pile type	Support location or control zone
29C-038	Class 200 Alt "Y"	Abutment 1
29C-038	24" Octagonal PC/PS	Bent 2
29C-038	Class 200 Alt "Y"	Abutment 3

Add to section 49-2.01D:

Payment for dynamic monitoring is included in payment for drive pile.

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50 PRESTRESSING CONCRETE

Replace the 2nd paragraph of section 50-1.01C(3) with:

For initial review, submit:
6 copies

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51 CONCRETE STRUCTURES

Add to section 51-1.01C(1):

If the methacrylate crack treatment is applied to a bridge deck within 100 feet of a residence, business, or public space, submit a public safety plan. Include with the submittal:

1. Copy of public notification letter with a list of delivery addresses and posting locations. The letter must describe the work to be performed and state the treatment work locations, dates, and times. Deliver copies of the letter to residences and businesses within 100 feet of the treatment work and to local fire and police officials, at least 7 days before starting treatment activities. Post a copy of the letter at the job site.
2. Airborne emissions monitoring plan. Plan must include monitoring point locations. A CIH certified in comprehensive practice by the American Board of Industrial Hygiene must prepare and execute the plan.
3. Action plan for protecting the public if levels of airborne emissions exceed permissible levels.
4. Copy of the CIH's certification.

After completing methacrylate crack treatment activities, submit results from monitoring production airborne emissions as an informational submittal.

Replace the 1st paragraph of section 51-1.01C(1) with:

Submit a deck placement plan for concrete bridge decks. Include in the placement plan your method and equipment for ensuring that the concrete bridge deck is kept damp by misting immediately after finishing the concrete surface.

Replace *Reserved* in section 51-1.01D(1) with:

The job site must have at least 4 airborne emissions monitoring points, including the mixing point, application point, and point of nearest public contact. Monitor airborne emissions during methacrylate crack treatment activities.

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52 REINFORCEMENT

Replace section 52-4 with:

52-4 ELECTRIC-RESISTANCE WELDED STIRRUPS FOR CONCRETE BARRIER REINFORCEMENT CAGES

52-4.01 GENERAL

52-4.01A Summary

Section 52-4 includes specifications for welding longitudinal support wire to stirrups using electric-resistance welding (ERW) to partially fabricate reinforcing cages for concrete barriers.
Electric-resistance welded supports may be used only for concrete barrier stirrups on structures.
You may use ERW to weld support wire to no.5 reinforcing bars or smaller. The support wire must be W 6.5 or smaller.

52-4.01B Definitions

partially fabricated reinforcing cage: Stirrups for concrete barrier reinforcing cages held in position by welded longitudinal support wires.

lot: 150 count, or fraction thereof, of welds for each size of reinforcing bar and support wire and for each change to the welding equipment settings.

52-4.01C Submittals

52-4.01C(1) General

Not Used

52-4.01C(2) Certificate of Compliance

Submit a certificate of compliance for each shipment of partially fabricated cages. Include with the submittal:

1. Identification of each cage including lot numbers, welds traceable by welding clamp, and location tracking information.
2. Grade and size of welded reinforcement used for the stirrups and support wire.
3. For the reinforcing bar and support wire:
   3.1. Heat number
   3.2. Mill certificate

52-4.01C(3) Test Samples

Submit QA test samples to METS.
Include copies of certificates of compliance with the test samples.

52-4.01C(4) Welding Quality Control Plan

Submit 2 copies of a welding QC plan for each subcontractor or supplier performing ERW. The QC plan must include:

1. WPSs
2. Names and certifications of welding personnel
3. Welding procedures including current setting, welding clamp force, weld time, and hold time for each size of reinforcement to be welded
4. Welding equipment manufacturer's operating instructions including the recommended calibration frequency of the welding equipment
5. Documentation of ERW equipment calibration
6. Fabricator's *QC Process Control Manual*
7. Method for identifying welds and tracking lots

For the contents, format, and organization required for a welding QC plan, go to the METS website.

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52-4.01C(5) Shop Drawings

Submit shop drawings showing the stirrup positioning, welded connections of the support wire to the stirrups, and welding equipment layout. Allow 15 days for the Engineer's review.

52-4.01C(6) Prefabrication Test Results

Submit the prefabrication test results within 3 days of prefabrication testing. The prefabrication test results must include:

1. Contract number
2. Bridge number
3. Welds identified by welding clamp
4. Reinforcement and support wire sizes
5. Test specimen length
6. Physical condition of test samples
7. Notable defects
8. Ultimate tensile strength of each sample
9. Location of necking area of each sample

Allow 3 business days for the Engineer's review.

52-4.01C(7) Quality Control Test Reports

Submit a QC test report within 7 days of testing for each lot. The report must be prepared by the authorized laboratory performing the testing. The report must be signed by the QC manager. For each lot, the report must include:

1. Contract number
2. Bridge number
3. Lot numbers with welds identified by welding clamp
4. Installed location of completed cages
5. Reinforcement and support wire sizes
6. Cage types
7. Cage lengths
8. Test specimen length
9. Physical condition of test samples
10. Notable defects
11. Ultimate tensile strength of each sample
12. Location of necking area of each test sample

Allow 3 business days for the Engineer's review.

52-4.01D Quality Assurance

52-4.01D(1) General

Provide a welding QC manager. The QC manager must be registered as a civil engineer in the State or currently certified as a CWI.

52-4.01D(2) Prewelding Meeting

Before submitting a welding QC plan, hold a prewelding meeting to discuss the work and the requirements for the welding QC plan. The meeting attendees must include the Engineer, your welding QC manager, and a representative from each entity performing welding or welding inspection.

52-4.01D(3) Test Samples

Samples must be a minimum length of 4 feet of bar reinforcing steel with a support wire welded at midpoint. You may furnish shorter length samples if authorized.
Prepare the samples using the same materials, procedures, equipment, and equipment settings used in

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the work.
The welding clamps that produce the samples are determined by the Engineer.
Prepare QC test samples and the Department acceptance test samples concurrently:
1. During fabrication of samples representing the 1st lot
2. From 1 of every 5 subsequent lots, or fraction thereof, randomly selected by the Engineer

After receiving notification that lots are ready for QC testing, the Engineer (1) randomly selects test samples to represent each lot and (2) places tamper-proof markings or seals on the test samples.
Before transporting test samples to an authorized laboratory and METS:
1. Securely bundle and package the test samples for each test in a way that preserves their condition during transportation
2. Identify each test sample by lot number and Contract number using weatherproof markings
3. Attach a completed Sample Identification Card to each bundle

If a sample show signs of tampering before testing, the sample is rejected.

52-4.01D(4) Quality Control

52-4.01D(4)(a) General

Test the samples for tensile strength under California Test 670, Section E, Part III, Tensile Test.
Tensile testing must be performed by an authorized laboratory. The laboratory must be on the Authorized Laboratories List for testing reinforcing steel splices.

52-4.01D(4)(b) Prefabrication Testing

Before the start of fabrication of production cages, prepare 4 samples from each welding clamp.
Notify the Engineer at least 5 business days before fabricating the samples.
If 3 or more of the 4 samples from each welding clamp attain the specified minimum tensile strength, the Department accepts the prefabrication test results.
If 2 of the 4 samples attain the specified minimum tensile strength, determine the cause of the failure and take corrective action as specified in section 52-4.01D(4)(c). Fabricate 4 additional samples from the clamp that produced the noncompliant samples, and perform tensile tests until at least 3 of the 4 samples attain the specified minimum tensile strength.
Do not start fabrication of production cages until the Department accepts the test results.

52-4.01D(4)(c) Fabrication Testing

During fabrication of production cages, for each lot prepare 8 test samples.
At least 5 business days before performing fabrication testing, notify the Engineer of:
1. Date of the testing
2. Location of the authorized laboratory where the tests will be conducted
3. Number of lots to be tested

Do not perform tests on test samples from bundles containing fewer than 8 samples. Test 4 of the samples. The Engineer determines the samples to be tested.
If 3 or more of the 4 samples from a lot attain the specified minimum tensile strength, the Department accepts the lot.
If 2 of the 4 samples from a lot attain the specified minimum tensile strength, perform additional tests on the remaining samples. If any of the additional samples do not attain the specified minimum tensile strength, the Department rejects the lot.
If a lot is rejected, stop production until the following corrective actions have been performed:
1. QC manager reviews your QC process
2. You have prepared a welding rejection mitigation report describing:
   2.1. Cause of the failure
   2.2. Method used to identify the cause of failure
   2.3. Identification of affected lots
   2.4. Provisions for preventing similar failures in future lots

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2.5. Procedure for repairing or replacing the welded connections in the rejected lot

3. Engineer has notified you that the welding rejection mitigation report is authorized

52-4.01D(5) Department Acceptance

The Department accepts lots based on your QC tension test results specified in section 52-4.01D(4)(c).
The Department performs tensile test on samples from the 1st lot and from 1 of every 5 subsequent lots, or fraction thereof, randomly selected by the Engineer.
If 3 or more of the 4 samples attain the specified minimum tensile strength, the Department accepts the lot.
If 2 of the 4 samples attain the specified minimum tensile strength, fabricate 4 additional samples using the same materials and welding machine settings as the noncompliant lot. If any of the 4 additional samples do not attain the minimum specified tensile strength, the Department rejects the lot.
If QC and Department acceptance testing results have different compliance determinations, the Department will perform QA testing for all subsequent lots until QC testing and the Department testing are consistent for 2 consecutive lots before resuming testing for 1 of every 5 lots, or fraction thereof, as determined by the Engineer.

52-4.02 MATERIALS

52-4.02A General

Reinforcing bars must comply with ASTM A706, Grade 60.
Support wire must comply with the specifications for plain wire in ASTM A1064.
The tensile strength of reinforcing bars with the support wire welded to the bar must be at least 80,000 psi.

52-4.02B Fabrication

Perform ERW at a fabrication shop using computer-controlled equipment.
Weld the support wire to the stirrups. The stirrups must be positioned as shown. The support wire must be capable of maintaining the dimensions, position, and shape of the stirrups until the cage is complete.

52-4.03 CONSTRUCTION

Provide bracing to avoid collapse of the cage during assembly, transportation, and placement as needed.
Field tack welding of support wire to reinforcement is not allowed.
Wiring longitudinal reinforcement at each stirrup intersection is not required.

52-4.04 PAYMENT

Not Used

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60 EXISTING STRUCTURES

Add to section 60-2.01A:

Remove the existing Escalon-Bellota Road Bridge over Littlejohns Creek, Bridge No. 29C-038.

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80 FENCES

80-1 GENERAL

80-1.03 CONSTRUCTION, add between paragraphs 1 and 2:

Temporary fences must be installed prior to removing existing fences.

80-1.04 PAYMENT, add after paragraph 2:

When the contract does not include a separate bid item for temporary fences, the payment quantity for installing and removing temporary fences is considered as included in the contract unit price paid for constructing new fence.

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82 SIGNS AND MARKERS

82-1 GENERAL

82-1.01 GENERAL

82-1.01A Summary, replace paragraph 2 with:

Signs must comply with the latest edition of the *California Manual on Uniform Traffic Control Devices* (CA MUTCD) and FHWA publication *Standard Highway Signs and Markings*. Sign construction must also comply with the *California Sign Specifications and Federal Standard Highway Signs and Markings* book available at the Caltrans Traffic Operations website under signs and work zones.

82-2 SIGN PANELS

82-2.02 MATERIALS

82-2.02A General, replace item 1 of paragraph 2 with:

Phrase *Property of San Joaquin County*

82-2.02B Aluminum Sheeting, add between paragraphs 1 and 2:

Aluminum sheeting thickness must be a minimum of 0.070-inch.

82-2.02F Fiberglass-Reinforced Plastic Panels, delete.

82-2.04 PAYMENT, replace section with:

Payment quantity of sign panels is measured by the actual unit count of installed sign panels. Each sign panel, regardless of type or dimensions, will be considered as one unit. The measurement unit for multiple sign panels on one post is the number of sign panels installed on the post. Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for all work involved in installing sign panels, complete in place, must be considered as included in the contract unit price paid for **Roadside Sign,** or the type of sign panel, whichever is shown on the Bid Item List.

82-9 EXISTING ROADSIDE SIGNS AND MARKERS

82-9.03 CONSTRUCTION

82-9.03A General, replace with:

Unless otherwise indicated on the plans, reset or relocate roadside signs using existing posts.

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82-9.04 PAYMENT, replace section with:

Payment quantity for relocation is measurement by the number of posts relocated/installed, regardless of the number of sign panels mounted/attached to the post.

Payment for relocating existing roadside signs and posts, or relocating roadside signs onto new posts if required by the plans, must be considered as included in the contract unit price paid for **Relocate Roadside Sign** and no additional compensation will be allowed therefor. In addition, any existing posts designated for removal must be considered as included in the payment made for Relocate Roadside Sign.

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83 RAILINGS AND BARRIERS

Replace *Reserved* in section 83-2.01B with:

83-2.01B(1) General

83-2.01B(1)(a) Summary

Section 83-2.01B includes specifications for constructing vegetation control around railing and barrier posts.
Constructing minor concrete vegetation control includes clearing and excavation.

83-2.01B(1)(b) Definitions

Not Used

83-2.01B(1)(c) Submittals

Submit a mix design for the minor concrete to be used for vegetation control. The mix design must show proportions of:

1. Coarse aggregate
2. Fine aggregate
3. Cementitious material
4. Reinforcing fiber
5. Water

Include compressive strength test results with the mix design.
Submit a certificate of compliance for the crumb rubber aggregate, if used. Include the quantity in pounds of crumb rubber.

83-2.01B(1)(d) Quality Assurance

Not Used

83-2.01B(2) Materials

83-2.01B(2)(a) General

Not Used

83-2.01B(2)(b) Minor Concrete

83-2.01B(2)(b)(i) General

Concrete for vegetation control must comply with the specifications for minor concrete, except the concrete:

1. Must include reinforcing fibers
2. May include crumb rubber aggregate
3. Must contain:
   3.1. At least 505 pounds of cementitious material per cubic yard, if crumb rubber aggregate is used
   3.2. At least 400 pounds of cementitious material per cubic yard, if crumb rubber aggregate is not used
4. Must have a maximum aggregate size of 3/8 inch

All ingredients must be added at the concrete plant before delivery to the job site.
You may use volumetric proportioning complying with ASTM C685/C685M or as specified.
The minor concrete must have a 28-day compressive strength from 1,400 to 2,500 psi.

83-2.01B(2)(b)(ii) Crumb Rubber Aggregate

Crumb rubber aggregate must consist of ground or granulated scrap tire rubber from automobile and truck tires. Do not use tire buffings.
Crumb rubber aggregate must be ground and granulated at ambient temperature.

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The crumb rubber aggregate gradation must comply with the requirements shown in the following table:

Gradation Requirements

Sieve size	Percentage passing
1/2"	100
3/8"	90–100
1/4"	35–45
No. 4	5–15
No. 8	0–5
No. 16	0

Crumb rubber aggregate must not contain more than 0.01 percent of wire by mass and must be free of oils and volatile organic compounds.
Do not commingle crumb rubber from different sources.
The crumb rubber aggregate must be 3.5 ± 0.5 percent by weight of the concrete.

83-2.01B(2)(b)(iii) Reinforcing Fibers

Reinforcing fibers for minor concrete must be:

1. Manufactured specifically for use as concrete reinforcement from one of the following:
   1.1. Polypropylene, polyethylene, or a combination of both.
   1.2. Copolymer of polypropylene and polyethylene.
2. Blended ratio from 4 to 5.67 parts by weight of macro synthetic fibers to 1 part by weight of micro synthetic fibers. Synthetic fibers must be:
   2.1. Nonfibrillated macro fibers with individual fiber lengths less than 2 ± 1/2 inches.
   2.2. Fibrillated or monofilament micro fibers of various lengths and thicknesses.
3. Supplied in sealed, degradable bags of appropriate size for adding whole bags to concrete batches.
4. From a commercial source.

The reinforcing fiber content of the minor concrete must be from 5 to 6 lb/cu yd.

83-2.01B(2)(b)(iv) Coloring Agent

Not Used

83-2.01B(2)(c) Block-Out Material

The block-out material must be a commercially available expanded polystyrene foam with a compressive strength of 13 ± 5 psi at 10 percent deformation when tested under ASTM D1621.
If authorized, you may substitute an alternative block-out material that complies with the compressive strength requirements of the expanded polystyrene foam.

83-2.01B(2)(d) Backfill Material

Backfill material must be Class 2 aggregate base complying with section 26.

83-2.01B(3) Construction

83-2.01B(3)(a) General

Not Used

83-2.01B(3)(b) Clearing

Clear areas to receive vegetation control of vegetation, trash, and debris. Dispose of the removed material.

83-2.01B(3)(c) Earthwork

Excavate or backfill areas to receive vegetation control.
If the vegetation control abuts the existing surfacing and the edge of the existing surfacing is not on a neat line, cut the surfacing on a neat line to a minimum depth of 2 inches before removing the surfacing.

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Perform grading so that the finished elevation of the vegetation control maintains the existing or planned flow lines, slope gradients, contours, and existing surfacing.
Grade the areas to receive vegetation control to a smooth, uniform surface and compact to a relative compaction of at least 90 percent.

83-2.01B(3)(d) Block Outs

For block-out material supplied in more than 1 piece, tape the pieces together to make a smooth surface on the top and sides.

Ensure that the block-out material does not move during concrete placement.

83-2.01B(3)(e) Forming

Forming must comply with section 73-1.03C.
Leave forms in place for at least 12 hours after surface finishing.

83-2.01B(3)(f) Minor Concrete

Strike off and compact the minor concrete until a layer of mortar is brought to the surface. Match the finished grade to the adjacent section of vegetation control, pavement, shoulder, or existing grade.
Construct contraction joints by scoring concrete with a grooving tool and rounding corners with an edger tool.

83-2.01B(3)(g) Backfill Material

Backfill material required for vegetation control under existing guardrail or barrier is change order work.
Excavate or backfill areas to receive vegetation control.

83-2.01B(4) Payment

Not Used

Replace *Reserved* in section 83-2.02C(3) with:

The offset from the face of the Type WB-31 transition railing to the hinge point must be at least 3'-6".
The offset from the face of the adjacent midwest guardrail system to the hinge point must be transitioned from the offset at the Type WB-31 transition railing to 4'-0" using a ratio of 6:1.

83-2.04 TERMINAL SYSTEMS

83-2.04B Alternative In-Line Terminal Systems and **83-2.04C Alternative Flared Terminal Systems,** replace each "Reserved" section with:

Terminal systems must be compliant with the *Manual for Assessing Safety Hardware* (MASH) and on the current Caltrans *Authorized Materials List* (AML). Submit a certificate of compliance for terminal systems meeting MASH compliance.

Terminal systems must be furnished and installed in accordance with the manufacturer's instructions and as described. Each terminal system installed must be identified by painting the type of terminal system in neat black letters and figures 2 inches high on the back side of the rail element between system posts number 4 and 5.

Excavated material to install terminal system must be disposed of outside the right-of way.

Replace section 83-2.04B with:

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83-2.04B Alternative In-line Terminal Systems

83-2.04B(1) General

83-2.04B(1)(a) Summary

Section 83-2.04B includes specifications for constructing alternative in-line terminal systems.

83-2.04B(1)(b) Definitions

Not Used

83-2.04B(1)(c) Submittals

Submit a certificate of compliance for alternative in-line terminal systems.

83-2.04B(1)(d) Quality Assurance

For each model of alternative in-line terminal system being installed, obtain the manufacturer's check list for the assembly and installation of the alternative in-line terminal systems from the manufacturer's representative or distributor. Notify the Engineer of the alternative in-line terminal systems to be installed at each location before starting installation activities. Complete, sign, and date the check list for each installed in-line terminal system and submit a copy of the completed and signed check list for each installed location, and include the following:

1. Contract number
2. Name of installation Contractor
3. Flare offset used in layout
4. Date of installation
5. Location on the project by post mile, and by station if stationing shown on plans
6. Name and signature of individual completing the checklist.

The Engineer signs and dates the completed check lists, verifying the in-line terminal system at each location was assembled and installed under the manufacturer's instructions and as described.
Use personnel trained by the manufacturer to install in-line terminal systems. A record of training provided by the manufacturer may be requested by the Engineer at any time.

83-2.04B(2) Materials

Alternative in-line terminal systems must be one of the following or a Department-authorized equal:

1. Type SoftStop terminal systems must be SoftStop End Terminal System manufactured by Trinity Highway Products, LLC, and must include the connection components. Type SoftStop terminal system - Type SoftStop terminal system must be a SoftStop terminal with a System length of 50'-9 1/2" for test level 3, manufactured by Trinity Highway Products, LLC, and must include items detailed for SoftStop terminal system, as shown. The SoftStop terminal can be obtained from the manufacturer:

Address	Telephone no.
TRINITY HIGHWAY PRODUCTS LLC PO BOX 99 CENTERVILLE UT 84012	(800) 772-7976

2. Type MSKT - Type MSKT terminal system must be a 31" MSKT Guard Rail End Terminal with a system length of 50'-0" as manufactured by Road Systems, Inc., located in Big Spring, Texas, and must include items detailed for Type MSKT terminal system shown on the plans. The MSKT Guard Rail End Terminal can be obtained from the distributor:

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Address	Telephone no.
UNIVERSAL INDUSTRIAL SALES PO BOX 699 PLEASANT GROVE UT 84062	(801) 785-0505
GREGORY INDUSTRIES INC 4100 13TH ST SW CANTON OH 44708	(330) 477-4800

3. Type MAX-Tension Tangent Guardrail End Treatment by Barrier Systems, Inc. is a tangent, re-directive gating guardrail terminal. The MAX-Tension has a length of 55'-1/2", and can be flared for an offset of 0 to 2 feet at the head. The MAX-Tension terminal can be obtained from the distributor:

Address	Telephone no.
STATEWIDE SAFETY AND SIGNS INC 130 GROBRIC COURT FAIRFIELD CA 94533	(800) 770-2644

83-2.04B(3) Construction

Identify each terminal system by painting the type of terminal system in 2-inch-high, neat, black letters and figures on the backside of the rail element between system posts number 4 and 5. Paint must be metallic acrylic resin type spray paint. Before applying terminal system identification, the surface to receive terminal system identification must be free of all dirt, grease, oil, salt, or other contaminants by washing the surface with detergent or other suitable cleaner. Rinse thoroughly with fresh water and allow to fully dry.

Install Type SoftStop terminal system under the manufacturer's installation instructions. For Type SoftStop terminal system, use W6 x 8.5 steel yielding terminal posts for Posts 1 and 2 and standard W6 x 8.5 steel posts for the other posts. Drive all posts or place them in drilled holes. Backfill the space around the posts with selected earth that is free of rock. Moisten and thoroughly compact each layer. For the terminal with a system length of 50'-9 1/2" or system length of 38'-3 1/2", all blocks must be wood or plastic and must be 8 or 12 inches deep.

For Type MSKT terminal system, install a W6x15 at lower section Post 1 with a soil plate attached and a 6 by 6 by 1/8 inches tube section at upper section Post 1. Install a W6x9 or W6x8.5 post assembly top and post assembly bottom at Post 2. Install W6x9 or W6x8.5 at Posts 3 through 8. Attach a 9'-4 1/2" W-beam MGS rail section to Post 3. Use 8-inch blocks. The posts must be, at your option, driven with or without pilot holes, or placed in drilled holes. Do not pound on the side plates when installing lower post #1 and lower post #2. Space around the posts must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer must be moistened and thoroughly compacted.

Install Type MAX-Tension terminal system under the manufacturer's installation instructions. Use 8- or 12-inch wood or composite blocks. Install W6x8.5 or W6x9 at post positions after Post 1. Backfill the space around the posts with selected earth that is free of rock. The posts must be, at your option, driven with or without pilot holes, or placed in drilled holes. Space around the posts must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer must be moistened and thoroughly compacted.

83-2.04B(4) Payment

Not Used

83-2.04D Payment, replace “Reserved” with:

Payment quantity of each type of terminal system, as described, is measured by the actual count of each installed system.

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Replace section 83-4.06 with:

83-4.06 CRASH CUSHIONS

83-4.06A General

83-4.06A(1) Summary

Section 83-4.06 includes specifications for constructing permanent crash cushions.
The same model must be used at all locations.
You may use alternative crash cushions. Alternative crash cushions must:

1. be approved at MASH Test Level 3
2. be listed on the Caltrans Authorized Material List for Highway Safety Features for Permanent Crash Cushions at the time of installation
3. have a maximum height of 34 inches
4. have a maximum length and width which provide clear widths shown

Crash cushions must be installed on concrete pads under the manufacturer's instructions.
Concrete for concrete pads must comply with the specifications for minor concrete.
Reinforcing steel for concrete pads must comply with section 52.

83-4.06A(2) Definitions

Not Used

83-4.06A(3) Submittals

Submit a copy of the manufacturer's plan and parts list as an informational submittal.
Submit a certificate of compliance for the crash cushions.

83-4.06A(4) Quality Assurance

Not Used

83-4.06B Materials

Not Used

83-4.06C Construction

Install crash cushions under the manufacturer's instructions.

83-4.06D Payment

Payment for concrete pads is included in the payment for crash cushions.

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84 MARKINGS

84-2 TRAFFIC STRIPES AND PAVEMENT MARKINGS

84-2.01 GENERAL

84-2.01A Summary, add:

Thermoplastic traffic stripes and pavement markings must be extruded thermoplastic. References made to 6-inch stripe in this section will be revised to 4-inch stripe unless shown otherwise on the plans. Application rates defined for materials placed per linear foot under Section 84 must be revised based on the width of striping or marking as defined on the project plans.

84-2.03 CONSTRUCTION

84-2.03A General, add before paragraph 1:

Before obliterating or applying any surfacing over any existing traffic stripes, pavement markings, and pavement markers to be replaced at the same location, reference the stripes, markings, and markers. Include limits and transitions with control points to reestablish the new stripes, markings, and markers. Submit your references to the control points at least 5 working days before obliterating or applying any surfacing over the stripes, markings, and markers. It is your responsibility to preserve all reference control points.

Contact the Engineer a minimum of 2 working days prior to the placement of stripes, pavement markings, and pavement markers to obtain approval for the alignment of traffic stripes and all layouts for pavement markings.

84-2.03C(2)(b) Extruded Thermoplastic Traffic Stripes and Pavement Markings, replace paragraph 2 with:

Apply extruded thermoplastic for a traffic stripe at a rate of at least 0.34 lb/ft of 4-inch-wide solid stripe. The applied thermoplastic stripe must be from 0.110 to 0.150-inch thick.

84-2.04 PAYMENT, replace section with:

The payment quantity for a thermoplastic traffic stripe is the length measured along the line of the thermoplastic traffic stripe without deductions for gaps in the broken traffic stripe. The payment quantity for a thermoplastic pavement marking is the actual area covered. A double extruded thermoplastic traffic stripe consisting of two 4-inch-wide yellow stripes is measured as 2 traffic stripes.

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84-9 EXISTING MARKINGS

84-9.03C Remove Traffic Stripes and Pavement Markings Containing Lead, replace "Reserved" with:

84-9.03C(1) General

Existing thermoplastic traffic stripes and pavement markings must be removed at existing locations within the project limits and as directed by the Engineer.

Attention is directed to Section 14-11.12, "Removal of Yellow Traffic Stripe and Pavement Marking with Hazardous Waste Residue," and Section 84-9, "Existing Markings," and Section 13, "Water Pollution Control."

The removed yellow thermoplastic must be disposed of at a Class 1 disposal facility in conformance with the requirements of the disposal facility operator within 30 days after accumulating 220 pounds of residue and dust. The Contractor must make necessary arrangements with the operator of the disposal facility to test the yellow thermoplastic residue as required by the facility and these special provisions. Testing must include, at a minimum, (1) Total Lead and Chromium by EPA Method 7000 series and (2) Soluble Lead and Chromium by California Waste Extraction Test. From the first 887 gallons of waste or portion thereof, if less than 887 gallons of waste are produced, a minimum of 4 randomly selected samples must be taken and analyzed. From each additional 222 gallons of waste or portion thereof, if less than 222 gallons are produced, a minimum of 1 additional random sample must be taken and analyzed. Submit the name and location of the disposal facility and analytical laboratory along with the testing requirements to the Engineer not less than 5 days prior to the start of removal of yellow thermoplastic. The analytical laboratory must be certified by the Department of Health Services Environmental Laboratory Accreditation Program. Test results must be provided to the Engineer for review prior to signing a waste profile as requested by the disposal facility, prior to issuing an EPA identification number, and prior to allowing removal of the waste from the site.

Prepare a project specific Lead Compliance Plan to prevent or minimize worker exposure to lead while handling removed yellow thermoplastic residue. Attention is directed to Title 8, California Code of Regulations, Section 1532.1, "Lead," for specific Cal-OSHA requirements when working with lead.

The Lead Compliance Plan must contain the elements listed in Title 8, California Code of Regulations, Section 1532.1(e)(2)(B). Before submission to the Engineer, the Lead Compliance Plan must be approved by an Industrial Hygienist certified in Comprehensive Practice by the American Board of Industrial Hygiene. Said plan must be submitted to the Engineer at least 7 days prior to beginning removal of yellow thermoplastic.

Prior to removing yellow thermoplastic, personnel who have no prior training, including County personnel, must complete a safety training program provided by the Contractor that meets the requirements of Title 8, California Code of Regulations, Section 1532.1, "Lead," and the Contractor's Lead Compliance Program.

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Personal protective equipment, training, and washing facilities required by the Contractor's Lead Compliance Plan must be supplied to County personnel by the Contractor. The number of County personnel will be two.

Where grinding or other methods approved by the Engineer are used to remove yellow thermoplastic, the removed residue, including dust, must be contained and collected immediately. Sweeping equipment must not be used. Collection must be by a high efficiency particulate air (HEPA) filter equipped vacuum attachment operated concurrently with the removal operations or other equally effective methods approved by the Engineer.

The Lead Compliance Plan submittal must include a written work plan for the removal, storage, and disposal of yellow thermoplastic to the Engineer for approval not less than 15 days prior to the start of the removal operations. Removal operations must not be started until the Engineer has approved the work plan.

The removed yellow thermoplastic residue must be stored and labeled in covered containers. Labels must conform to the provisions of Title 22, California Code of Regulations, Sections 66262.31 and 66262.32. Labels must be marked with date when the waste is generated, the words "Hazardous Waste", composition and physical state of the waste (for example, asphalt grindings with thermoplastic), the word "Toxic", the name and address of the Engineer, the Engineer's telephone number, contract number, and Contractor or subcontractor. The containers must be a type approved by the United States Department of Transportation for the transportation and temporary storage of the removed residue. The containers must be handled so that no spillage will occur. The containers must be stored in a secured enclosure at a location within the project limits until disposal, as approved by the Engineer.

If the yellow thermoplastic residue is transported to a Class 1 disposal facility, a manifest must be used, and the transporter must be registered with the California Department of Toxic Substance Control. The Engineer will obtain the United States Environmental Protection Agency Identification Number and sign all manifests as the generator within 2 working days of receiving sample test results and approving the test methods.

Assume that the yellow thermoplastic removed is regulated under the Federal Resource Conservation and Recovery Act (RCRA). Additional disposal costs for removal of residue regulated under RCRA, as determined by test results required by the disposal facility, will be paid for as extra work as provided in Section 4-1.05, "Changes and Extra Work."
Nothing in these Special Provisions will relieve you of the responsibilities specified in Section 7-1.04, "Public Safety."

84-9.04 PAYMENT, replace with:

Payment quantity for **Remove Thermoplastic Traffic Stripe** is the measured length multiplied by:

1. 1.34 for a single 8-inch-wide traffic stripe
2. 2 for a double traffic stripe
3. 3 for a triple traffic stripe

Payment quantity for **Remove Thermoplastic Traffic Stripe** does not include the gaps in

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broken traffic stripes. Payment for removal of paint evident in a gap is included in the payment for remove traffic stripe of the type involved.

Payment quantity for **Remove Thermoplastic Pavement Marking** is the measured by the area parallel to ground surface.

A Lead Compliance Plan must be prepared and implemented for the removal of any and all yellow thermoplastic striping and markings. Payment quantity for **Lead Compliance Plan** is paid for at the lump sum price. When there is no separate bid item for Lead Compliance Plan, preparing and implementing said plan for the removal, storage, testing and disposal of yellow thermoplastic, including compensation for the Certified Industrial Hygienist, and for providing personnel protective equipment, training, air monitoring, and medical surveillance, as specified, must be considered as included in the respective contract unit prices for **Remove Thermoplastic Traffic Stripe** and **Remove Thermoplastic Pavement Marking**.

When the Contract does not include separate bid items for the removal and disposal of thermoplastic traffic stripes and/or pavement markings, full compensation for the removal and disposal of thermoplastic traffic stripes and/or pavement markings and the preparation and implementation of a corresponding Lead Compliance Plan must all be considered as included in the various contract items of work involved.

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90 CONCRETE

Add to section 90-1.01A:

The specifications for CIP structural concrete members in sections 90-1.01C(6)(b), 90-1.01C(8)(b), 90-1.01C(11), 90-1.01C(12), 90-1.01D(7), 90-1.01D(8), 90-1.01D(9), 90-1.01D(10)(b), and 90-1.01D(11)(b) do not apply.

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96 GEOSYNTHETICS

Add to section 96-1.02B:

Filter fabric for geocomposite drains must be Class A.

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Replace **"99 RESERVED"** with**:**

99 Mobilization and Demobilization

99-1.01 GENERAL

This section covers the contract bid item **Mobilization and Demobilization** and includes:

1. Transporting to the work site and setting up the equipment required for the performance of the work.

2. Final site cleanup, including removal of all equipment and temporary facilities.

99-1.02 SUBMITTALS

Submit a list of equipment to be included in the mobilization and demobilization process. Submittal list must be approved by the Engineer prior to mobilization.

99-1.03 CONSTRUCTION

Notify the Engineer 5 days prior to mobilization or demobilization.

The equipment shall be complete with accessories and support materials. The equipment shall be completely functional, in good working order, and in compliance with applicable air quality standards and requirements.

99-1.04 MEASUREMENT AND PAYMENT

Mobilization and Demobilization will be measured and paid for as follows:

1. The mobilization portion of the Mobilization and Demobilization bid item will be 60 percent of the total lump sum contract price for the purposes of payment calculation and will not be paid until the equipment listed in the submittal list has been transported to the work site. Progress payments for mobilization will be paid in accordance with Section 9, "Payment," of the Standard Specifications and Special Provisions.

2. The demobilization portion of the contract item will be 40 percent of the lump sum contract price for the purposes of payment calculation and shall not be paid until the contract work has been completed, including removal of the temporary facilities and final site cleanup.

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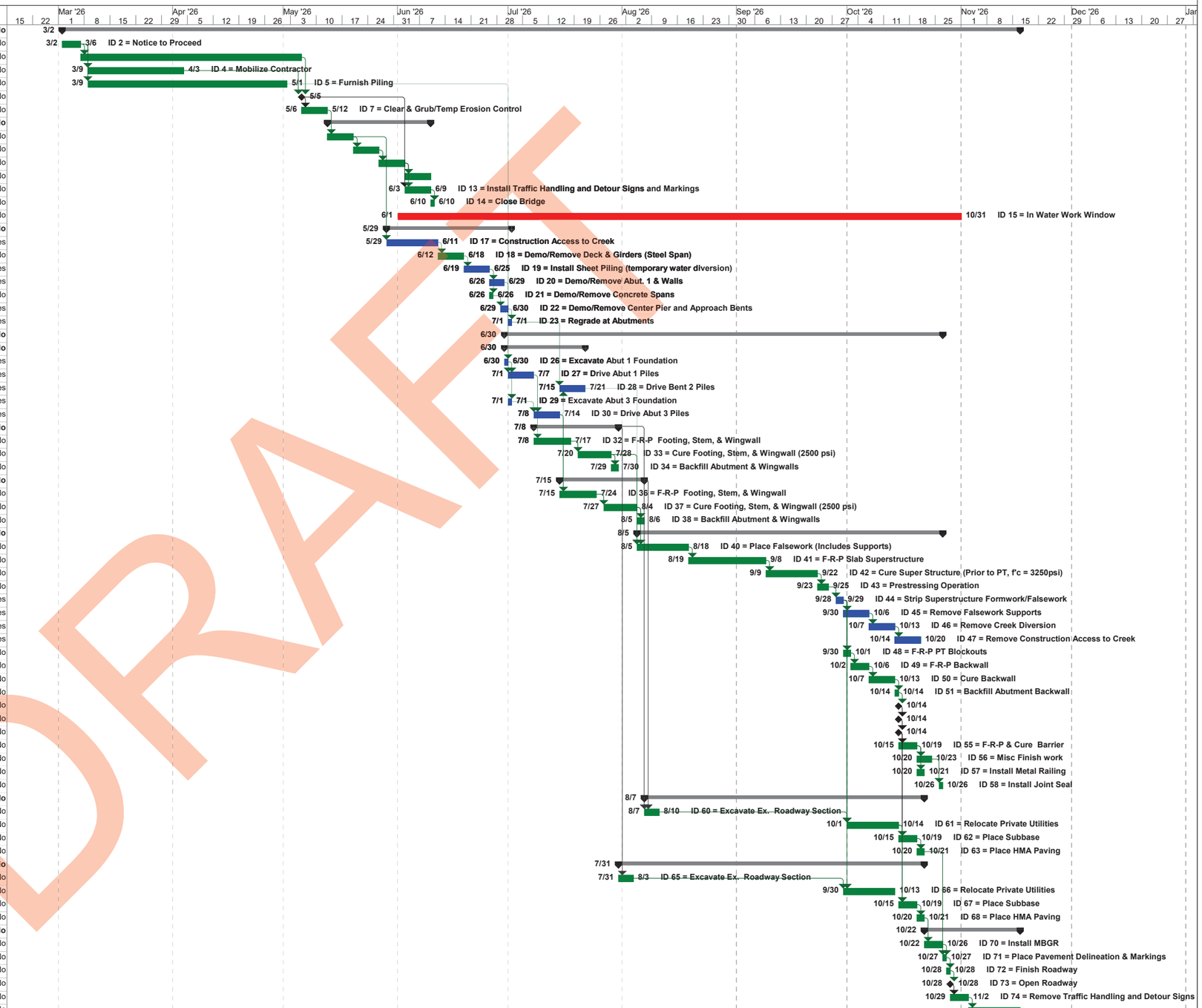
Project: 710077-Escalon-Bellota Road Constr Schedule
Date: Thu 3/27/25

ID	Task Name	Duration	Start	Finish	Predecessors	In-Water
1	**Construct Escalon-Bellota Road Bridge Over Littlejohns Creek**	**186 days**	**Mon 3/2/26**	**Mon 11/16/26**		**No**
2	Notice to Proceed	5 days	Mon 3/2/26	Fri 3/6/26		No
3	SWPP	60 edays	Fri 3/6/26	Tue 5/5/26	2	No
4	Mobilize Contractor	20 days	Mon 3/9/26	Fri 4/3/26	2	No
5	Furnish Piling	40 days	Mon 3/9/26	Fri 5/1/26	2	No
6	Start Construction	0 days	Tue 5/5/26	Tue 5/5/26	4,3	No
7	Clear & Grub/Temp Erosion Control	5 days	Wed 5/6/26	Tue 5/12/26	6	No
8	**Install Temporary Detour Bridge**	**20 days**	**Wed 5/13/26**	**Tue 6/9/26**		**No**
9	Detour Bridge - Abut 1	5 days	Wed 5/13/26	Tue 5/19/26	7	No
10	Detour Bridge - Abut 2	5 days	Wed 5/20/26	Tue 5/26/26	9	No
11	Launch Temp Bridge	5 days	Wed 5/27/26	Tue 6/2/26	10	No
12	Prep Deck & Barriers for Traffic	5 days	Wed 6/3/26	Tue 6/9/26	11	No
13	Install Traffic Handling and Detour Signs and Markings	5 days	Wed 6/3/26	Tue 6/9/26	6FS+3 days,11	No
14	Close Bridge	1 day	Wed 6/10/26	Wed 6/10/26	13	No
15	**In Water Work Window**	110 days	Mon 6/1/26	Sat 10/31/26		No
16	**Demo/Remove Existing Structure**	**24 days**	**Fri 5/29/26**	**Wed 7/1/26**		**No**
17	Construction Access to Creek	10 days	Fri 5/29/26	Thu 6/11/26	9FS+7 days	Yes
18	Demo/Remove Deck & Girders (Steel Span)	5 days	Fri 6/12/26	Thu 6/18/26	17	No
19	Install Sheet Piling (temporary water diversion)	5 days	Fri 6/19/26	Thu 6/25/26	18	Yes
20	Demo/Remove Abut. 1 & Walls	2 days	Fri 6/26/26	Mon 6/29/26	19	Yes
21	Demo/Remove Concrete Spans	1 day	Fri 6/26/26	Fri 6/26/26	19	No
22	Demo/Remove Center Pier and Approach Bents	2 days	Mon 6/29/26	Tue 6/30/26	21	Yes
23	Regrade at Abutments	1 day	Wed 7/1/26	Wed 7/1/26	22	Yes
24	**Construct Proposed Bridge**	**85 days**	**Tue 6/30/26**	**Mon 10/26/26**		**No**
25	**Construct Piles**	**16 days**	**Tue 6/30/26**	**Tue 7/21/26**		**No**
26	Excavate Abut 1 Foundation	1 day	Tue 6/30/26	Tue 6/30/26	20	Yes
27	Drive Abut 1 Piles	5 days	Wed 7/1/26	Tue 7/7/26	26,5	Yes
28	Drive Bent 2 Piles	5 days	Wed 7/15/26	Tue 7/21/26	23,30	Yes
29	Excavate Abut 3 Foundation	1 day	Wed 7/1/26	Wed 7/1/26	26	Yes
30	Drive Abut 3 Piles	5 days	Wed 7/8/26	Tue 7/14/26	29,27	Yes
31	**Construct Abutment 1**	**17 days**	**Wed 7/8/26**	**Thu 7/30/26**		**No**
32	F-R-P Footing, Stem, & Wingwall	8 days	Wed 7/8/26	Fri 7/17/26	27	No
33	Cure Footing, Stem, & Wingwall (2500 psi)	7 days	Mon 7/20/26	Tue 7/28/26	32	No
34	Backfill Abutment & Wingwalls	2 days	Wed 7/29/26	Thu 7/30/26	33	No
35	**Construct Abutment 3**	**17 days**	**Wed 7/15/26**	**Thu 8/6/26**		**No**
36	F-R-P Footing, Stem, & Wingwall	8 days	Wed 7/15/26	Fri 7/24/26	30	No
37	Cure Footing, Stem, & Wingwall (2500 psi)	7 days	Mon 7/27/26	Tue 8/4/26	36	No
38	Backfill Abutment & Wingwalls	2 days	Wed 8/5/26	Thu 8/6/26	37	No
39	**Construct Bridge Superstructure**	**59 days**	**Wed 8/5/26**	**Mon 10/26/26**		**No**
40	Place Falsework (Includes Supports)	10 days	Wed 8/5/26	Tue 8/18/26	33,37,28	No
41	F-R-P Slab Superstructure	15 days	Wed 8/19/26	Tue 9/8/26	40	No
42	Cure Super Structure (Prior to PT, f'c = 3250psi)	10 days	Wed 9/9/26	Tue 9/22/26	41	No
43	Prestressing Operation	3 days	Wed 9/23/26	Fri 9/25/26	42	No
44	Strip Superstructure Formwork/Falsework	2 days	Mon 9/28/26	Tue 9/29/26	43	Yes
45	Remove Falsework Supports	5 days	Wed 9/30/26	Tue 10/6/26	44	Yes
46	Remove Creek Diversion	5 days	Wed 10/7/26	Tue 10/13/26	45	Yes
47	Remove Construction Access to Creek	5 days	Wed 10/14/26	Tue 10/20/26	46	Yes
48	F-R-P PT Blockouts	2 days	Wed 9/30/26	Thu 10/1/26	44	No
49	F-R-P Backwall	3 days	Fri 10/2/26	Tue 10/6/26	48	No
50	Cure Backwall	5 days	Wed 10/7/26	Tue 10/13/26	49	No
51	Backfill Abutment Backwall	1 day	Wed 10/14/26	Wed 10/14/26	50	No
52	Approach Slab CTPB (No Appr Slab)	0 days	Wed 10/14/26	Wed 10/14/26	51	No
53	Approach Slab F-R-P (No Appr Slab)	0 days	Wed 10/14/26	Wed 10/14/26	52	No
54	Cure Approach Slab prior to barrier/work on deck (No Appr Slab)	0 days	Wed 10/14/26	Wed 10/14/26	53	No
55	F-R-P & Cure Barrier	3 days	Thu 10/15/26	Mon 10/19/26	54	No
56	Misc Finish work	4 days	Tue 10/20/26	Fri 10/23/26	55	No
57	Install Metal Railing	2 days	Tue 10/20/26	Wed 10/21/26	55	No
58	Install Joint Seal	1 day	Mon 10/26/26	Mon 10/26/26	56	No
59	**Northern Roadway Approach**	**54 days**	**Fri 8/7/26**	**Wed 10/21/26**		**No**
60	Excavate Ex. Roadway Section	2 days	Fri 8/7/26	Mon 8/10/26	31,35	No
61	Relocate Private Utilities	10 days	Thu 10/1/26	Wed 10/14/26	44FS+1 day,60	No
62	Place Subbase	3 days	Thu 10/15/26	Mon 10/19/26	61,54	No
63	Place HMA Paving	2 days	Tue 10/20/26	Wed 10/21/26	62	No
64	**Southern Roadway Approach**	**59 days**	**Fri 7/31/26**	**Wed 10/21/26**		**No**
65	Excavate Ex. Roadway Section	2 days	Fri 7/31/26	Mon 8/3/26	31	No
66	Relocate Private Utilities	10 days	Wed 9/30/26	Tue 10/13/26	44,65	No
67	Place Subbase	3 days	Thu 10/15/26	Mon 10/19/26	61,54	No
68	Place HMA Paving	2 days	Tue 10/20/26	Wed 10/21/26	67	No
69	**Finish Roadway**	**18 days**	**Thu 10/22/26**	**Mon 11/16/26**		**No**
70	Install MBGR	3 days	Thu 10/22/26	Mon 10/26/26	68	No
71	Place Pavement Delineation & Markings	1 day	Tue 10/27/26	Tue 10/27/26	63,70	No
72	Finish Roadway	1 day	Wed 10/28/26	Wed 10/28/26	71	No
73	Open Roadway	0 days	Wed 10/28/26	Wed 10/28/26	72	No
74	Remove Traffic Handling and Detour Signs and Markings	3 days	Thu 10/29/26	Mon 11/2/26	73	No
75	Remove Temporary Detour Bridge & Approaches	10 days	Tue 11/3/26	Mon 11/16/26	74	No



General Constr Task | Milestone | External Tasks | Inactive Milestone | Duration-only | Start-only | Deadline
In-Water Task | Summary | External Milestone | Inactive Summary | Manual Summary Rollup | Finish-only
Split | Project Summary | Inactive Task | Manual Task | Manual Summary | Progress

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