Section # Page #	Description	Date
Section 1.7 Page 2	Modify 1 st sentence of 2 nd paragraph to read: An LOTB is typically associated with a structure, is part of the Project Plans, and has an accompanying Test Boring Layout sheet that presents location information of the test borings in a plan view.	3/2022
Figure 2-3 Page 7	 Part 8, <i>Hole Completion</i>, 2th bullet is amended to read: Sealing Method (e.g., grout, dry bentonite chips) 	10/2015
Figure 2-3 Page 7	 Add new: Part 9, "Instrumentation Installed" 	10/2015
Figure 2-3 Page 7	Item 4 is amended to read: o Northing and Easting, local coordinate reference system (required)	8/2018
Page 10	Add new: Section 2.5.1.3, " Description of Isolated Interbeds/layer " For small isolated layers or interbeds, it is acceptable to call out the isolated layer without having to create a new layer as long as the following conditions are met: (1) the isolated layer must be 2 feet thick or less, and (2) the isolated layer must be described completely per Sec. 2.5.1, and (3) predominant soil description above and below the isolated layer are the same. Poorly Graded SAND (SP); dense; brown; moist; fine sand. 6-inch thick interbed of Fat Clay (CH); very stiff; black; moist; PP=3 tsf.	10/2015
Page 10	Change 2.5.1.3 Description of Fills to 2.5.1.4	10/2015
Section 2.5.2 Page 11	The 2 nd paragraph is amended to read: The ASTM procedure for identifying and describing fine-grained and coarse-grained soil is only applicable to material passing the 3-inch sieve. The percentage(s) of cobbles and/or boulders (if encountered) must be reported per Section 2.5.17 and the group name must be modified accordingly.	10/2015

Section # Page #	Description				Date
Section 2.5.2	The text is modifie	d as follows:			10/2015
Page 11	The group name fr	or a soil with a borderlin	a symbol must be the a	roup name for the first	
	symbol. except for	÷	le symbol must be the g		
	• CL/CH lear	n to fat CLAY			
	• ML/CL CL/	AYEY SILT, and			
	● CL/ML SIL	I Y CLAY"			
Sec. 2.5.2 Page 11	Dual Symbol is mo	odified as follows:			10/2015
	A dual symbol is tw are used to indicate	o symbols separated b that a soil has about 1	y a hyphen, e.g., GP-Gl 10% fines.	И, SW-SC, GW-GC. They	
Figure 2-13	The figure is amen	ded to read:			10/2015
Page 17	Percent or Propo	ortion of Soil, Pp			
	Description	Criteria			
	Trace	Particles are pres estimated to be les	sent but s than 5%		
	Few	5 - 10%			
	Little	15 - 25%			
	Some	30 - 45%			
	Mostly	50 - 100%	6		
Figure 2-14	The figure is amon	ded to read:			10/2015
Page 17	The light is amen				10/2010
	Particle Size, Ps			-	
	Description	Sieve Size	Approximate Particle Size (in)		
	Boulder	Greater than 12 in.	12 < Ps		
	Cobble	3 - 12 in.	3 < Ps ≤ 12		
	Coarse Gravel	3/4 - 3 in.	3/4 < Ps ≤ 3		
	Fine Gravel	No. 4 - 3/4 in.	1/5 < Ps ≤ 3/4		
	Coarse Sand	No. 10 - No. 4	1/16 < Ps ≤ 1/5		
	Medium Sand	No. 40 - No. 10	1/64 < Ps ≤ 1/16		
	Fine Sand	No. 200 - No. 40	1/300 < Ps ≤ 1/64		
	Fines	Passing No. 200	Ps ≤ 1/300		

Section # Page #	Description	Date
Sec. 2.5.19 Page 21	"Additional Comments", add bullet:	10/2015
1 490 2 1	No SPT recovery from elev. XX to elev. XX	
Figure 2-23	Item 11, "Relative Strength of Intact Rock", is amended to read:	10/2015
raye 22	11 Relative Strength of Intact Rock 3.3 o	
Section	Add the following to the end of the section:	10/2015
Page 23	If subsequent changes only occur in the soil properties, these changes can be shown independently in parentheses.	
	SEDIMENTARY ROCK (SANDSTONE); medium grained; gray; intensely weathered; soft; unfractured (Well-graded SAND (SW); medium dense; moist; medium sand; weak cementation)	
	(dense)	
	(medium dense)	
Figure 2-44 Page 36-37	Add new row:	10/2015
	Test Method(s)Test NameMaterial RequiredTypical SampleTL-101 RequiredSize/Type	
	ASTM D 6467 Drained Residual 1 lb. 1 Tube No Shear Strength	
	 Also: Replace "ASTM D 5333" with ASTM D 4546" Delete "ASTM D 427" Replace "ASTM D 2938" with "ASTM D 7012 Method C" Replace "ASTM D 4767" with "ASTM D 7263" 	
Figure 4-3 Page 54	Change location information to Northing and Easting	8/2018
Section 5.1	Modify 1 st sentence to read:	3/2022
	An LOTB is typically associated with a structure, is part of the Project Plans, and has an accompanying Test Boring Layout sheet that presents location information of the test borings in a plan view.	
Figure 5-1 Page 58	Replace Figure 5-1 with:	3/2022
	 Figure 5-1A, Test Boring Layout Figure 5-1B, Log of Test Borings 	

Section # Page #	Description	Date
Section 5.2.1 Page 59	Entire section replaced with:	3/2022
	5.2.1 - Contents and Characteristics of the LOTB and Test Boring Layout Sheets	
	As part of the project plans, the Log of Test Borings (LOTB) and Test Boring Layout (Layout) sheets are displayed as separate plan sheets, and together they:	
	Present the boring logs on an elevation scale.	
	• Present a plan view showing the location of each boring relative to an alignment and/or existing or planned facility or structure.	
	 Present the type(s) of drilling method(s) used to perform the investigation, the type(s) of sampling performed, and how the sampler was advanced. 	
	• Present the location and description, both graphical and written, of the types of soil and rock encountered within the borehole.	
	Present the types of field and laboratory testing performed.	
	Present field and laboratory test data.	
	• Are optimized for printing on full-size plan sheets (24" x 36") and typically reproduced on 11" x 17" sized paper.	
	Allow presentation of more than one boring log per plan sheet.	
	Are accompanied by LOTB legend sheets.	

Section 5.2.2 Entite section replaced with: 3/2022 Page 59 5.2.2 - Notes on the LOTB and Layout Sheets 3/2022 Each LOTB and Layout sheet must contain a note section for presentation of relevant factual data and one of the following two notes: if the procedures of this manual were followed without exception, then the following note must be placed on the LOTB sheet: "This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (Date)" If the procedures of this manual were followed without exception, then the following note must be placed on the Test Boring Layout sheet: "This Test Boring Layout sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (Date)" If an exception to the procedures of this manual has been approved and implemented, then the notes must be modified to read: "This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (Date) except as noted below" and "This Test Boring Layout sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (Date) except as noted below" Optional notes may include: • Changes in drilling equipment • Site observations • Depth and length of no recovery • No SPT recovery from elevation XX to elevation XX Do not repeat the procedures or requirements set forth in this manual in the notes section. Notes specific to a borehole should be presented on the LOTB sheet. Only no	Section #	Description	Date
Page 59 5.2.2 - Notes on the LOTB and Layout Sheets Each LOTB and Layout sheet must contain a note section for presentation of relevant factual data and one of the following two notes: If the procedures of this manual were followed without exception, then the following note must be placed on the LOTB sheet: "This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (Date)" If the procedures of this manual were followed without exception, then the following note must be placed on the Test Boring Layout sheet: "This Test Boring Layout sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (Date)" If an exception to the procedures of this manual has been approved and implemented, then the notes must be modified to read: "This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (Date) except as noted below" Optional notes may include: • Changes in drilling equipment • Site observations • Other drilling observations • Other drilling observations • Other drilling observations • Depth and length of no recovery • No SPT recovery from elevation XX to elevation XX Do not repeat the procedures or requirements set forth in this manual in the notes section. Notes specific to a borehole should be presented on the LOTB sheet. Only notes that are generalized for the project and/or alignment are presented on the Layout sheet. Section 5.2.3	Section 5.2.2	Entire section replaced with:	3/2022
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Section 5.2.3 Entire section replaced with: 3/2022 Section 5.2.3 Entire section replaced with: 3/2022		5.2.2 - Notes on the LOTB and Layout sheets	
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Section 5.2.3 Page 59Entire section replaced with:3/20225.2.3 - LOTB and Layout Sheet Formatting Plan sheets must be prepared in accordance with this manual and the Caltrans Plans Preparation Manual. The plan sheet border must present the following:3/2022		Do not repeat the procedures or requirements set forth in this manual in the notes section. Notes specific to a borehole should be presented on the LOTB sheet. Only notes that are generalized for the project and/or alignment are presented on the Layout sheet.	
Page 59 5.2.3 - LOTB and Layout Sheet Formatting Plan sheets must be prepared in accordance with this manual and the Caltrans <i>Plans Preparation Manual.</i> The plan sheet border must present the following:	Section 5.2.3	Entire section replaced with:	3/2022
5.2.3 - LOTB and Layout Sneet Formatting Plan sheets must be prepared in accordance with this manual and the Caltrans <i>Plans</i> <i>Preparation Manual</i> . The plan sheet border must present the following:	Page 59		
Plan sheets must be prepared in accordance with this manual and the Caltrans <i>Plans</i> <i>Preparation Manual.</i> The plan sheet border must present the following:		5.2.3 - LOTB and Layout Sneet Formatting	
		Plan sheets must be prepared in accordance with this manual and the Caltrans <i>Plans</i> <i>Preparation Manual</i> . The plan sheet border must present the following:	

Section #	Description	Date
Section	Replace item "a" with:	3/2022
5.2.3.1		0/2022
Page 59	 a) The State of California Registered Civil Engineer, Geotechnical Engineer, Structure Engineer (for Layout only), Certified Engineering Geologist, or Professional Geologist seal with the signature, date, license number, and registration certificate expiration date of the Geoprofessional in responsible charge of the LOTB sheet; 	
Section	Replace items "c" and "d" with:	3/2022
5.2.3.2	a) "DDAMALDY". The name of the Engineering Orenhics Unit nerson whe	
Page 60	c) "DRAWN BY": The name of the Engineering Graphics Unit person who prepared the LOTB and draft Layout sheet.	
	 d) "CHECKED BY": The name of the person who performed the quality control check of the LOTB and Layout sheet 	
Section	Entire section replaced with:	3/2022
5.2.3.3	5233 - Plan View – Lavout	
Page 60-61	c) The first preject plan chect(c) for test beginne is used entirely for the Levent and	
	consists of a Plan View and a Borehole Location Table.	
	 b) Multiple Layout sheets must be numbered with reference to the stationing of the control line (i.e., showing the first sheet with the lowest stationing and the last sheet with the highest stationing). 	
	c) "BENCH MARK" provide a note stating "Bench Marks shown on the Log of Test Borings sheets are for Design purposes only. For complete list of survey monuments for this project, see Survey Control information provided in the ROADWAY PLANS."	
	d) Show the scale directly below the Plan View label.	
	e) Show a North arrow.	
	 f) Lines or control lines shown in the Plan View must be consistent with those shown on the General Plan sheet. 	
	g) Show stationing and names for control lines. Stationing must increase from left to right. Show a minimum of two stations on all lines.	
	h) Show control line intersection stationing and bearings.	
	i) Show names and directions of nearest cities.	
	j) Show names and directions of stream flows when applicable.	
	k) Show Table listing Hole Identification, Alignment Name, and Station and Offset	
	Plot boring locations with symbols as shown in the legend to identify drilling methods (e.g., auger hole, rotary hole, cone penetration). The Hole Identification must be presented with each symbol.	

Section # Page #	Description	Date
Section	Entire section replaced with:	3/2022
5.2.3.4	5.2.2.4 Profile View LOTP	
Page 61	5.2.3.4 - Prome view - LOTB	
	 a) Show the location, description, and elevation of the bench mark used for determining the top of boring elevations under the heading "BENCH MARK". Identify the vertical datum (National Geodetic Vertical Datum, U.S. Geological Survey, U.S. Coast & Geodetic Survey, District, etc.) used to determine the benchmark elevations. 	
	 b) Show the elevations and grid lines on both the left and right margins. Numerical values must be in multiples of 10 (e.g. 20, 10, 0, -10, -20). 	
	 Show the Hole Identification, top of hole elevation, Northing and Easting at the top of each boring log. 	
	d) Show types and diameters of drill tools.	
	e) Show the completion date of boring (m/d/y) at the bottom of each boring log.	
	f) Show "Terminated at EL. XX" to indicate the bottom of boring elevation.	
	g) Show the SPT hammer energy ratio, "Hammer Energy Ratio (ER _i) = XX%," at the bottom of each boring.	
	 h) Provide groundwater information for each boring. If groundwater was measured, show the date(s) and elevation(s) of groundwater measurement(s). If groundwater was not encountered, state "Groundwater was not encountered in boring(s) ####". If groundwater was encountered but not measured, state "Groundwater was encountered in boring(s) ####, but elevation was not measured." 	
	i) Show results from the Standard Penetration Test (SPT) at relevant elevations along the left side of the boring log <i>(see Appendix A.8)</i> .	
	 Show types of field and laboratory tests with symbols as indicated in the legend, at relevant elevations along the right side of the boring log. 	
	 k) Show the Profile scales (horizontal and vertical) under the heading "PROFILE". 	
	I) Show RQD and/or recovery along the left side of the boring log.	
Section	Replace item "c" with:	3/2022
5.2.4.3 Page 61-62	c) The State of California Registered Civil Engineer, Geotechnical Engineer, Structure Engineer (for Layout sheet only), Certified Engineering Geologist, or Professional Geologist seal with the signature, date, license number, and registration certificate expiration date of the Geoprofessional in responsible charge of the LOTB sheet.	

Section # Page #	Description	Date
Figure 5-3 Page 63	 Add: Groundwater symbol to CPT boring Next to the diamond "symbol", add Hole Type "RC" and Description "Rotary core with continuously-sampled, self-casing wire-line" 	10/2015
Figure 5-4 Page 64	 Under Field and Laboratory Testing: Add "DR – Drained Residual Shear Strength (ASTM D 6467)" Replace "CL – Collapse Potential (ASTM D 5333)" with "CL – Collapse Potential (ASTM D 4546)" Delete "SL – Shrinkage Limit (ASTM D 427)" Replace "Unconfined Compression – Rock (ASTM D 2938)" with "Unconfined Compression – Rock (ASTM D 7012 Method C)" Replace "UW – Unit Weight (ASTM D 4767)" with "UW – Unit Weight (ASTM D 7263)" 	10/2015
Section A.10 Page 81	 End of second paragraph, add: <i>"Mechanical breaks must be fitted together and counted as one piece."</i> 	10/2015



GN	BY X BY X	CHECKED X CHECKED X			sт CALI	AT F	E OF		DIVISIO	N OF ENG Bridg	GINEERI E DESI	NG SERVICE GN
				DEP	ARTMENT	OF	TRANSP	ORTATION		BKAN	CH	Χ
LOTTED = > example	> 15-APR-2022 TIME PLC e test boring layout wü ßE F	DTTED => 15:31 ORIGIN IN IN RojakonEne≠≽iosal 342141288 izeREBOC	AL SCALE CHES FOR ED PLANS	0	 1	I	2	3	UNIT: XX PROJECT	XX NUMBER &	& PHASE	: xxxxxxxxx

EGISTERED CIVIL ENGINEER LANS APPROVAL DATE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS LL NOT BE RESPONSIBLE FOR THE ACCURACY OR PLETENESS OF SCANNED COPIES OF THIS PLAN SHEET. S Test Boring Layout sheet was prepared accordance with the Caltrans Soil & Rock Iging, Classification, and Presentation Jual (2010 Edition).	EGISTERED CIVIL ENGINEER LANS APPROVAL DATE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS L NOT BE RESPONSIBLE FOR THE ACCURACY OR Deleteness of scanned copies of THIS PLAN SHEET. S Test Boring Layout sheet was prepared accordance with the Caltrans Soil & Rock ging, Classification, and Presentation ual (2010 Edition). 2018 Standard Plans A10F and A10G for I Legend, and A10H for Rock Legend.
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al (2010 Edition).	2018 Standard Plans A10F and A10G for Legend, and A10H for Rock Legend.
2018 Standard Plans A10F and A10G for	I Legend, and A10H for Rock Legend.

	BOREH	OLE LOCAT	ION TABLE	•	
	Northing	Easting		🗜 R†e 36	
JLL ID	Nor ming	Lusting	Station	Offset (ft)	Rt/Lt
C-21-001	2090438.2	5965310.7	100+30.2	18.8	R†
C-21-002	2090481.1	5965476.6	101+96.1	27.8	L+

S	BRIDGE No. XX-XXXX		PR	OJECT 1	ITLE			
	POST MILE	•	TEST	BORING	LAY	ουτ		
X1	COUNTY/R CONTRACT	OUTE: XXX/XXX No.: XX-XXXXX4	DISREGARD P EARLIER REV	PRINTS BEARING /ISION DATES	REVISI	ON DATES	SHEET X	of X



				S1	TAT	E O	F		DIVISION OF ENGINEERING SERVICE
	FIELD INVESTIGATION BY: X		DE	CAL PARTMENT	0F		SPORTA	A TION	BRANCH X
PLOT ∶> e	TED => 15-APR-2022 TIME PLOTTED => 15:30 xample log of test boring.d g6 ERNAME => s132428	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	I	2	Ι	3	UNIT: 3650 PROJECT NUMBER & PHASE: XXXXXXXXX

'EL and COBBLES (SW); medium dense; tle fine and coarse GRAVEL; trace , hard, 5-10", subrounded; (FILL).	N 2090481.1 E 5965476.6	-002
; dark bluish gray; moist; fine SAND; 0.35 tsf. 4 tsf.	<u>GWS Elev -2.0 0.0</u> 02-01-21 71.4	Well-graded SANE yellowish brown, COBBLES, hard, 8 SANDY lean CLAY
dark bluish gray with orange mottling;	PI2.0 UUPIPA	-stiff. -PP=1.5 tsf.
ely to slightly weathered; moderately ed. 00 psi.	100/8 1.4 REC=100% ROD=80%	SEDIMENTARY ROCH weathered. -moderately sof
	REC=100% Rec=100% RQD=100% REC=100% RQD=95% RQD=70%	
	02-01-21 Terminated at Elev - ER;= 90%	39.0

		Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL No. SHEETS
		REO PLA	GISTERED C ANS APPROV	IVIL ENGINI AL DATE	EER X DATE PRO	FESSIONAL X X X X X X X
		NOTE: Sporad up to	Interference of californ Not be Respons ETENESS OF SCAN LOTB sh the Cal sification 2018 Sto Legend,	ers at t eter.	prepared in o prepared in o resentation M lans A10F and for Rock Le he ground sur	riviL california accordance ging, anual A10G for gend. face
th GRAVEL t; little f ", rounded L); medium	and COBBL ine to coa ; (FILL). stiff; dar 3 tsf.	ES (SW); r rse GRAVE k gray; n	medium c EL;10%I noist;fi	lense; GNEOUS ne SAND;		<u> 0</u> <u> 10</u>
SHALE); dar slightly fr	-k bluish g -actured.	ray; mode	erately t	o slight	lу	-20
						-40
						•
			PROF Vert: 1	<u>ILE</u> " = 10'		-50
BRIDGE No. XX-XXXX		 PI	PROF Vert: 1	<u>ILE</u> " = 10' CT T	ITLE	-50
BRIDGE No. XX-XXXX POST MILE X.X	LOG	PI OF T	PROF Vert: 1 ROJE	<u>ILE</u> " = 10' CT T BORI	ITLE NGS X (-50 DF X