

# Samples of Required Documents Submitted to SC HQ

This attachment includes examples of or links for some of the completed required documents referenced in Attachment 1, *List of Required Documents Submitted to SC HQ*, as follows:

1. Form SC-3812, *CIDH Pile Information for Piles Tested by the FTB*: See Figure 1
2. Form SC-4803, *Pile Quantity & Driving Record (Driven Piles)*: See Figure 2 and see the link for [Bridge No. 12-0204](#), Flag Canyon Creek Bridge
3. Form SC-4804, *Pile Quantity & Drilling Record (CIDH Piles)*: See Figure 3
4. Form SC-4805, *Log Pile Sheet*: See Figure 4
5. Form SC-4806, *Pile Layout Sheet*: See Figure 5
6. Form SC-6303, *Report of Completion – Bridges*: See link for [Bridge No. 27-0019](#), San Antonio Creek Bridge
7. Form SC-6304, *Report of Completion – Building Projects*: See link for [Building No. 33-BLD-80-PM2.2](#), SFOBB Maintenance Complex
8. Form SC-6305, *Paint Record*: See Figure 6 and link for [Bridge No. 23-0024](#), Sacramento River (Rio Vista) Bridge
9. Form BD-0307, *Joint Movement Calculations-LRFD*: See Figure 7 and the link for [Bridge No. 02-0202](#), Hilt Road OC (Replace), illustrating a similar form.
10. Form TR-0019, *Notice of Change in Clearance or Bridge Weight Rating*: See link for structures for [Contract 04-2640N4](#)
11. Form TR-0020, *Notice of Change in Vertical or Horizontal Clearance*: See link for structures for [Contract 04-260N4](#)
12. As-built CPM Schedule: See link for [Contract No. 04-264094](#)
13. As-built project plans: See link for [Bridge No. 27-0119](#), San Antonio Creek Bridge.

**Memorandum**

**To:** RICHARD FOLEY  
DEPUTY DIVISION CHIEF  
OFFICE OF STRUCTURE CONSTRUCTION  
DIVISION OF ENGINEERING SERVICES, MS 9-2/11H

**Date:** July 11, 2022

**ATTENTION:** CHAIRMAN – PILE MITIGATION COMMITTEE

**From:** Jordan Jarosz/Mohamed Kaddoura  
Structure Representative  
5675 B Gibraltar Drive  
Pleasanton, Ca, 94588  
(XXX) XXX-XXXX

**Subject:** CIDH Pile Information for Piles Tested by the Foundation Testing Branch (FTB)

Project No.: 04-297834		Project Name/ Location: 04-Ala-84/680-17.9/R22.9, R10.3/R15.3	
Bridge/Structure No.: 33-0352		Bridge/Structure Name: Scotts Corner Separation (Widen)	
Abut/Bent/RW/SW No: Bents NB&SB		Prime Contractor: Bay Cities Inc, and Bridgeway	
Const. Phase: (if applicable)		Drilling Contractor: Pacific Coast Drilling Company	
Slurry Type: (water, SlurryPro, etc) Slurry Pro		Concrete Mfr & Mix Design No.: Cemex 1617357	Max. Concrete Aggregate Size: 3/8"

PILE No.	From Acceptance Test Report, PILE was ACCEPTED (A) OR REJECTED (R)?	IF Pile was REJECTED, List ANOMALY X-Sections (A-A, B-B, etc)	FOR ANOMALY X-SECTIONS		
			Was MITIGATION REQUIRED? (Yes/No)	IF Mitigation Required, was Mitigation DUE to GEOTECH (G), STRUCTURE DESIGN (S), and/or CORROSION (C) concerns?	Describe Repair Method (simple repair, excavate/chip/concrete, waterblast/grout, etc) OR Amount of Administrative Deduction Taken (\$\$)
Bent 2 (NB)	A		N		
Bent 2 (SB)	R	A-A	Y	S	Simple repair
Bent 3 (NB)	A		N		
Bent 3 (SB)	A		N		

Sheet 1 of 1 pages

"Provide a safe and reliable transportation network that serves all people and respects the environment"

CALIFORNIA DEPARTMENT OF TRANSPORTATION  
CIDH Pile Information for Piles Tested by the Foundation Testing Branch (FTB)  
Form SC-3812 (NEW. 12/22/2022)

**Figure 1. Form SC-3812, CIDH Pile Information for Piles Tested by the FTB**



DEPARTMENT OF TRANSPORTATION

PILE QUANTITY & DRILLING RECORD  
(CIDH PILES)

FORM DC-3278A (8/78)

JOB STAMP  
11- Imp - 86 - 64.2 / 67.8  
11-195814

SHEET NO. 48 - 28-1

BRIDGE NO. 58-0721

ITEM DESCRIPTION 16" CIDH PILING

BRIDGE NAME Sparosa

ABUT OR BENT NO. 2 FTG Center FTG TYPE \_\_\_\_\_ BOTTOM FTG ELEV. 310.0

PILE DRILLING INSPECTED BY F. I. Travelot

REINFORCING STEEL INSPECTED BY F. I. Travelot

CONCRETE PLACING INSPECTED BY F. I. Travelot

QUANTITY CALCULATIONS BY F. I. Travelot DATE 10/9/81

QUANTITY CALCULATIONS CHECKED BY I. L. Stayawae DATE 10/19/81

PILE NO	DATE PILE DRILLED	DATE REBAR PLACED	DATE CONCRETE PLACED	(1) SPEC. TOP OF PILE ELEV.	(2) SPEC. PILE TIP ELEV.	(3) THEOR. LENGTH OF PILE (1-2)	(4) MEAS. LENGTH OF PILE	(5) ACTUAL PILE TIP ELEV. (1-4)	(6) PAY LENGTH - SEE NOTE BELOW	REMARKS	LENGTH OF REBAR USED
1	10/8/81	10/9/81	10/9/81	310.3	278.0	32.3	32.5	277.8	32.3	hard drilling	
2							32.8	277.5			
3							33.0	277.3		12" cobbles at Elev. 290 ±	
4							32.9	277.4			
5							32.0	278.3	32.0		
6							32.3	278.0	32.3		
7							32.7	277.6		Core barrel used Elev. 280-285	
8							33.1	277.2			
9	↓	↓	↓	↓	↓	↓	32.6	277.7	↓	groundwater at tip - minor seepage	
SHEET TOTAL											
ITEM NO. <u>28</u>											
290.4 LF.											

THE PAY LENGTH (6) IS THE THEORETICAL LENGTH (3) EXCEPT THAT IF THE MEASURED LENGTH (4) IS LESS THAN THE THEORETICAL LENGTH (3) THE MEASURED LENGTH (4) WILL BE THE PAY LENGTH (6)

FILE CATEGORY 48

Figure 3. Form SC-4804, Pile Quantity & Drilling Record (CIDH Piles)

STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION  
**LOG PILE SHEET**  
 SC-4805 (Formerly DH-OS C79) (REV. 12/17/13)

JOB STAMP  
 Big Bypass  
 Contract No. 01-263004  
 01-Men-101-69.4/78.9

Bridge Name Quail Meadows UC Sheet No. 1/16  
 Bridge No. 10-0173 Abut/Bent No. Abut 1 Pile No. 1  
 Hammer Make Deimag Model D30-32 Energy (ft-lbs) = 82,625 (max)  
 Reference Descr Bottom of Footing Reference Elev 1345.00 Pile Type HP14x89  
 Pile Length 50.33 Pile Tip Elev 1295.00 Pile Cutoff Elev 1345.33  
 Date(s) Driven 6/3/2015 Inspected by B. Bet

Penetration (ft.)	Tip Elev (ft)	Blows/ft	Blows/Min	Equiv Stroke	Time	Remarks
15.00	1330.00	2				Start - Pile tap to 15'
20.00	1325.00	3				
25.00	1320.00	6				
30.00	1315.00	10				
31.00	1314.00	11				
32.00	1313.00	10				
33.00	1312.00	13				
34.00	1311.00	12				
35.00	1310.00	14				
36.00	1309.00	14				
37.00	1308.00	14				
38.00	1307.00	15	46	6.8		
39.00	1306.00	16				
40.00	1305.00	15				
41.00	1304.00	16				
42.00	1303.00	18				
43.00	1302.00	19				
44.00	1301.00	18				
45.00	1300.00	20	44	7.5		
46.00	1299.00	20				
47.00	1298.00	23				
48.00	1297.00	27				
49.00	1296.00	28				
50.00	1295.00	30	42	8.2		Finish - Pile tip

Figure 4. Form SC 4805, Log Pile Sheet

# PILE LAYOUT SHEET

SC-4806 (Formerly DH-OS C80) (REV. 12/17/13)

JOB STAMP  
 Big Bypass  
 Contract No. 01-263004  
 01-Men-101-69.4/78.9

DRAWN BY B. Bet DATE 4/23/2015 SHT NO 1/2  
 CHECKED BY R. Deo DATE 4/24/2015  
 BRIDGE NO. 10-0173 FTG \_\_\_\_\_  
 ABUTMENT OR BENT NO 1 FTG TYPE \_\_\_\_\_  
 BOTTOM FTG ELEV 1345

PER PLAN	AS-BUILT	DATE REVISED
Pile Type: HP 14x89	_____	_____
Cutoff Elev: 1345.33	_____	_____
Tip Elev: 1295	_____	_____
Pile Length: 50.33	_____	_____

Abutment 1, looking up station

SCALE: NTS

**Figure 5. Form SC-4806, Pile Layout Sheet**

# PAINT RECORD

SC-6305 (Formerly DH-OS M11) (REV. 12/17/13)

BRIDGE NAME Eel River BOH	BRIDGE NUMBER 04-0015	DIST - CO - RTE - PM 01-HUM-283-0.1	DATES COVERED - THIS RPT (INC) 1/23/18 → 8/6/18
CONTRACT NUMBER 01-OE8404	COST OF JOB (PAINT ONLY) \$2,136,000	PAINT INSPECTOR Mike McCracken, Jacob Hurd	
CONTRACTOR Murphy Industrial Coatings		SUBCONTRACTOR	
DATE STARTED 1/23/18	DATE COMPLETED 8/6/18	WORKING DAYS ALLOWED 115	
DAYS WORKED 94	DAYS LOST-WEATHER 42	DAYS LOST-OTHER	DAYS OVERRUN

TYPE OF STRUCTURE - NUMBER AND LENGTH OF SPANS  
 Continuous riveted steel through truss in Spans 7-9 (240', 322', & 240' respectively).  
 Steel hand rail in spans 1-12.  
 Concrete "end posts" at south approach. See routine inspection rept for add'l details.

TOTAL AREA SQFT 93,000	AREA BLASTED SQFT 2,000 (spot blast SSPC-SP6)	TOTAL TONS 30
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DESCRIPTION OF PAINT SYSTEM  
 Brush off blast clean (SSPC-SP7) of existing 2003 coating system, with application of a new PuWB coating system. Handrail has white PuWB 174 finish coat.


REMARKS  
 The 15" exterior face of each sidewalk was hand-scrubbed with water (no SSPC-SP7), & two finish coats of PuWB were applied.

OPERATION	METHOD	SUPPLIER	SPEC NO	AMOUNT USED	SQ FT AREA	SQ FT/GAL	TOTAL COST	SQ FT COST	
pressure wash	pressure wash	Murphy Industrial Coatings performed the work	std spec. 59-2.01C(4)(c)	N/A	91,000	N/A	\$511,000	\$5.62/SQFT	
brush-off blast	SSPC-SP7	abrasive: Kleen Blast 30/60 Murphy Industrial Coatings performed the work	std spec. 59-2.01C(4)(c)	29	89,000	N/A	\$571,000	\$5.74/SQFT	
spot-blast clean	SSPC-SP6 & SSPC-SP11	abrasive: Kleen Blast 30/60 Murphy Industrial Coatings performed the work	std spec. 59-2.01C(4)(c)	1	2,000	N/A	\$32,000	\$16/SQFT	
hand clean	SSPC-SP1	Murphy Industrial Coatings performed the work	N/A - Extra work	N/A	2,000	N/A	\$50,000	\$25/SQFT	
under coats	~28% spray ~12% brush & roller	Stiles	std spec. 59-2.01C(4)(c) spec. prov. 59-2.01A(1)	617 gal	93,000	151 SQFT/gal	\$344,000	\$3.70/SQFT	
finish coats	~86% spray ~12% brush & roller	Stiles	std spec. 59-2.01C(4)(c) spec. prov. 59-2.01A(1)	1,252 gal	186,000	149 SQFT/gal	\$688,000	\$3.70/SQFT	
Note: "SQFT Area" column represents sum of area of each coat.				TOTALS:	N/A	N/A	N/A	\$2,136,000	N/A

REPORT BY Mike McCracken	TITLE Structure Rep	DATE 10/15/18
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Figure 6. Form SC-6305, Paint Record

STATE OF CALIFORNIA \* DEPARTMENT OF TRANSPORTATION  
**JOINT MOVEMENT CALCULATIONS**  
 BD-0307



Note: Specific instructions are included as footnotes

EA	200000	DISTRICT	1	COUNT	Men	ROUT	101	KP	50.00	BRIDGE NAME AND NUMBER	Example Bridge 10-0111		
TYPE		TYPE ABUTMENT		SEAT		TYPE BEARING		Elastomeric pads					
POST-TENSION BOX GIRDER													
1 TEMPERATURE EXTREMES (from Preliminary Report)													
Type of Structure		Design Range		2 THERMAL MOVEMENT (inches/100 feet)		ANTICIPATED SHORTENING (inches/100 feet)		3 MOVEMENT FACTOR (inches/100 feet)					
Maximum	115 °F	Steel	°F	1.2(.0000065 x 1200)	=	+							
Minimum	13 °F	Concrete (Conventional)	°F	1.2(.0000060 x 1200)	=	+	0.06						
Range	102 °F	Concrete (Pretensioned)	°F	1.2(.0000060 x 1200)	=	+	0.12 =g						
		Concrete (Post tensioned)	°F	1.2(.0000060 x 1200)	=	+	0.63 =g	1.23					
ITEM 1 DESIGNER	John Designer		DATE	9/30/2010		ITEM 2 CHECKED	Joe Checker		DATE	9/30/10			
To be filled in by Division of Structures Design <sup>b</sup>													
To be filled in by SR: <sup>c</sup>													
DATE:													
Skew (degrees) Do not use in calcs.				4 Contributing Length (feet)				Calculated Movement (inches) 3*4/100		M.R. (in) (Round up to 12")		Seal Type A,B, (Others) or Open Joint	
LOCATION				ABUTMENT #1				150.0		185		B	
ABUTMENT #2				136.9				169		2.0		B	
<p>a Project Designer. Send to RE or SR with preliminary report.</p> <p>b Show line drawing of Structure on reverse side: show points of no movement and contributory lengths. Retain copy for design calculations file.</p> <p>c RE or SR: Complete and return to structure construction with final report.</p> <p>d Type B information from Translab reports.</p> <p>e Groove width adjustment based on DelT = (maximum temperature extreme) minus (superstructure temperature).</p> <p>f Measure superstructure temperature by placing bulb of concrete thermometer + 6 inches into expansion joint.</p> <p>g When MR is greater than 4 inches, increase anticipated shortening 25%</p>													

Figure 7. Form BD-0307, Joint Movement Calculations-LRFD