

BOREHOLE LOG													
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u> <u>IMPROVEMENT PROJECT (PHASE-IV)</u>				Location: Calumpang		DATE STARTED: May 26, 2019		Borehole No.:					
LOCATION : <u>PASIG-MARIKINA</u>				Surface Elevation: 13.514m		DATE FINISHED: May 29, 2019		DD-BH-L11					
				Coordinates: N: 1,617,863 E: 508,815		GWT : 2.0 meters		Total Depth : 20.0 meters					
DEPTH (m)	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE No. (MNC)	Atterberg Limit % (ASTM D 2487)				N-Value	PHOTOGRAPH			
					LI	PL	PI	F.C. (% Passing 200)					
10	(10.0-10.45 m.) Brown, medium dense, <i>clayey SAND</i> , medium plastic, with traces of fine gravel. (Rec: 45/20 cm.)	GFW	SPT-10	ss-10	15	39	22	17	31	14			
11	(11.0-11.15 m.) Brown, hard, <i>SAND and CLAY mixture</i> . (Rec: 15/15 cm.)			SPT-11	ss-11	44	15	15	40		50		
12	(11.15-12.0 m.) Brownish gray, highly weathered, <i>fine-grained SANDSTONE</i> , moderately cemented. (Rec: 85/50/30 cm.)	GFT		cs-1							CORING		
13	(12.0-13.0 m.) Brown, completely weathered, <i>fine-grained SANDSTONE</i> , weakly cemented. (Rec: 100/70/40 cm.)				cs-2							CORING	
14	(13.0-13.5 m.) Gray, completely weathered, <i>fine-grained SANDSTONE</i> , weakly cemented. (Rec: 50/40/10 cm.)				cs-3							CORING	
15	(13.5-14.0 m.) Gray, <i>GRAVEL</i> . (Rec: 50/10/0 cm.)				cs-4							CORING	CORE LOSS
16	(14.0-14.5 m.) Gray, completely weathered, <i>fine-grained SANDSTONE</i> , weakly cemented. (Rec: 50/20/0 cm.)				cs-5							CORING	CORE LOSS
17	(14.5-15.0 m.) - same materials - (Rec: 50/20/0 cm.)				cs-6							CORING	CORE LOSS
18	(15.0-15.5 m.) Gray, highly weathered, <i>fine-grained SANDSTONE</i> , weakly cemented. (Rec: 50/40/35 cm.)				cs-7							CORING	CORE LOSS
19	(15.5-16.0 m.) No Recovery (Rec: 50/0/0 cm.)				cs-8							CORING	NO RECOVERY
20	(16.0-16.5 m.) Gray, highly weathered, <i>fine-grained SANDSTONE</i> , weakly cemented. (Rec: 50/30/30 cm.)				cs-9							CORING	CORE LOSS
21	(16.5-17.0 m.) Gray, highly weathered, <i>fine-grained SANDSTONE</i> , weakly cemented. (Rec: 50/20/0 cm.)				cs-10							CORING	CORE LOSS
22	(17.0-17.5 m.) - same materials - (Rec: 50/30/20 cm.)				cs-11							CORING	CORE LOSS
23	(17.5-18.0 m.) - same materials - (Rec: 50/20/0 cm.)				cs-12							CORING	CORE LOSS
24	(18.0-18.5 m.) - same materials - (Rec: 50/35/0 cm.)				cs-13							CORING	CORE LOSS
25	(18.5-19.0 m.) - same materials - (Rec: 50/30/0 cm.)				cs-14							CORING	CORE LOSS
26	(19.0-19.5 m.) Brownish gray, highly weathered, <i>fine-grained SANDSTONE</i> , weakly cemented. (Rec: 50/35/0 cm.)				cs-15							CORING	CORE LOSS
27	(19.5-20.0 m.) - same materials - (Rec: 50/25/0 cm.)				cs-16							CORING	CORE LOSS

図5-3-1 (32/103) 柱状図 (本詳細設計実施分)

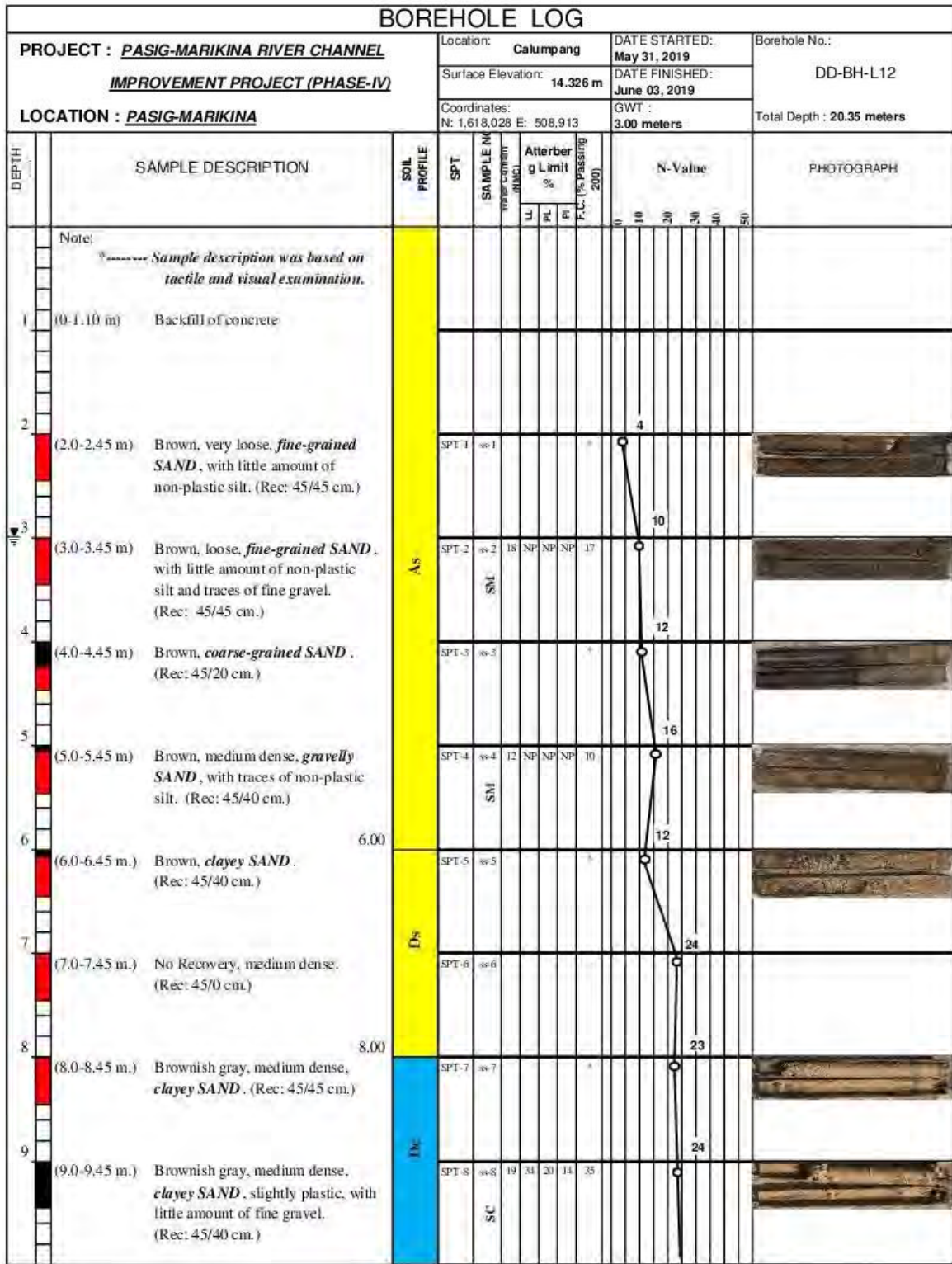


図5-3-1 (33/103) 柱状図 (本詳細設計実施分)

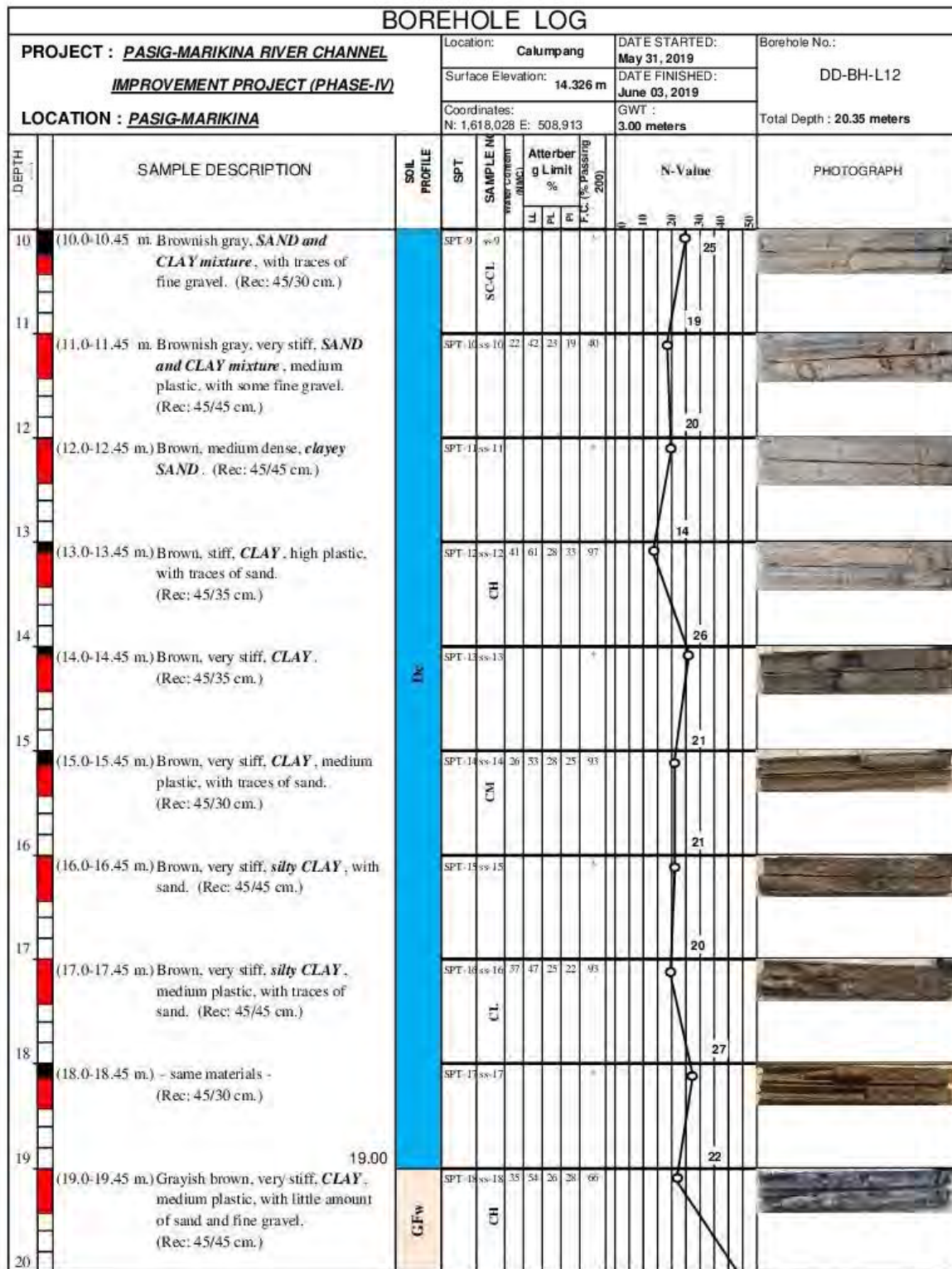


図5-3-1 (34/103) 柱状図 (本詳細設計実施分)

BOREHOLE LOG																				
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u> <u>IMPROVEMENT PROJECT (PHASE-IV)</u>				Location: Calumpang		DATE STARTED: May 31, 2019		Borehole No.: DD-BH-L12												
LOCATION : <u>PASIG-MARIKINA</u>				Surface Elevation: 14.326 m		DATE FINISHED: June 03, 2019		Total Depth : 20.35 meters												
				Coordinates: N: 1,618,028 E: 508,913		GWT : 3.00 meters														
DEPTH	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE No. (MKS)	Atterberg Limit %			N-Value					PHOTOGRAPH							
					LI	PL	FL	0	10	20	30	40		50	60					
0	(20.0-20.35 m.) Gray, very dense, <i>medium-grained SAND</i> , with some fine gravel. (Rect: 35/30 cm.)	GFw	SPT 19 ss 19																	
21																				
22	<i>End of borehole @ 20.35m depth</i>																			
23																				
24																				
25																				
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図5-3-1 (35/103) 柱状図 (本詳細設計実施分)

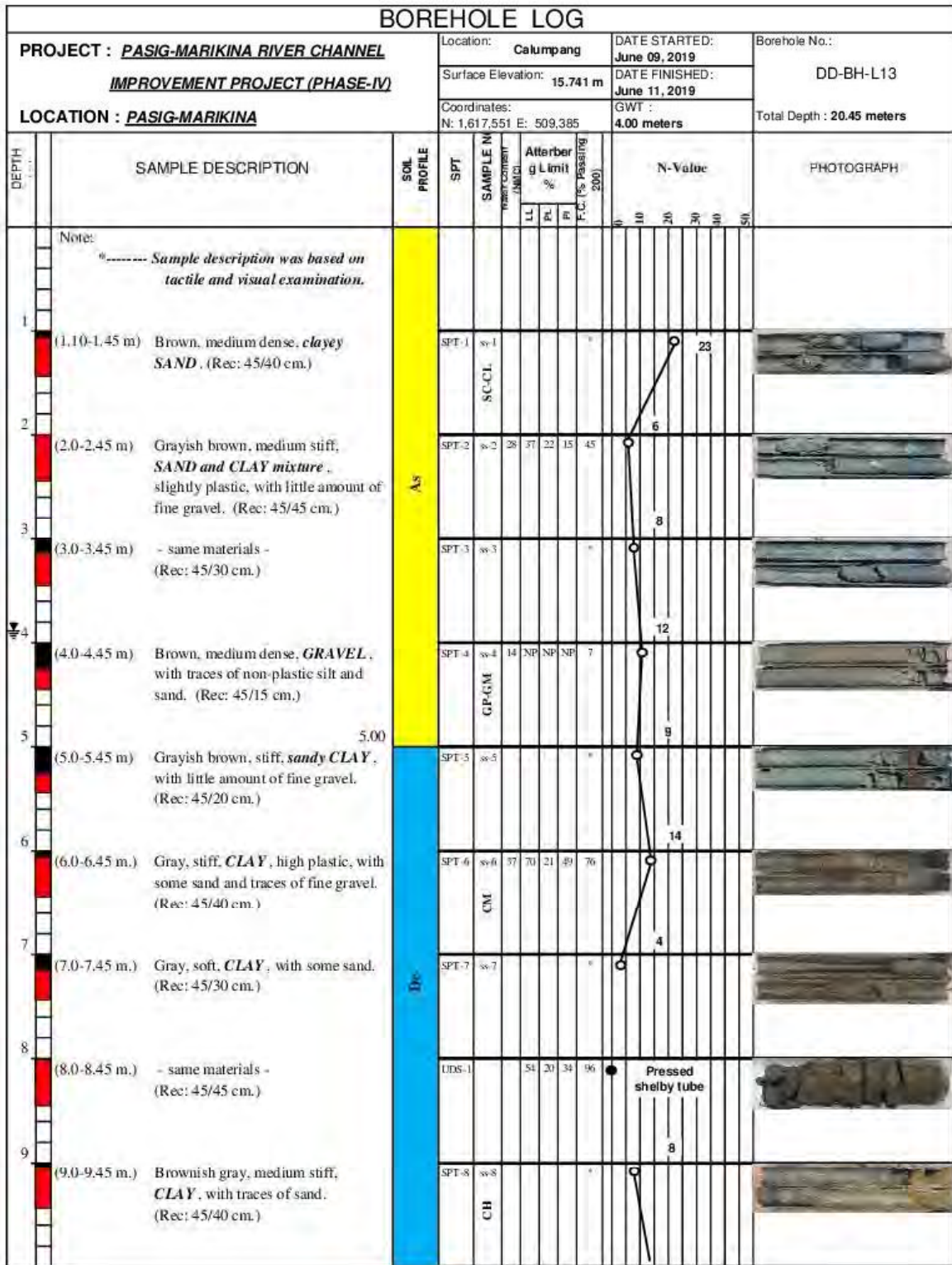


図5-3-1 (36/103) 柱状図 (本詳細設計実施分)

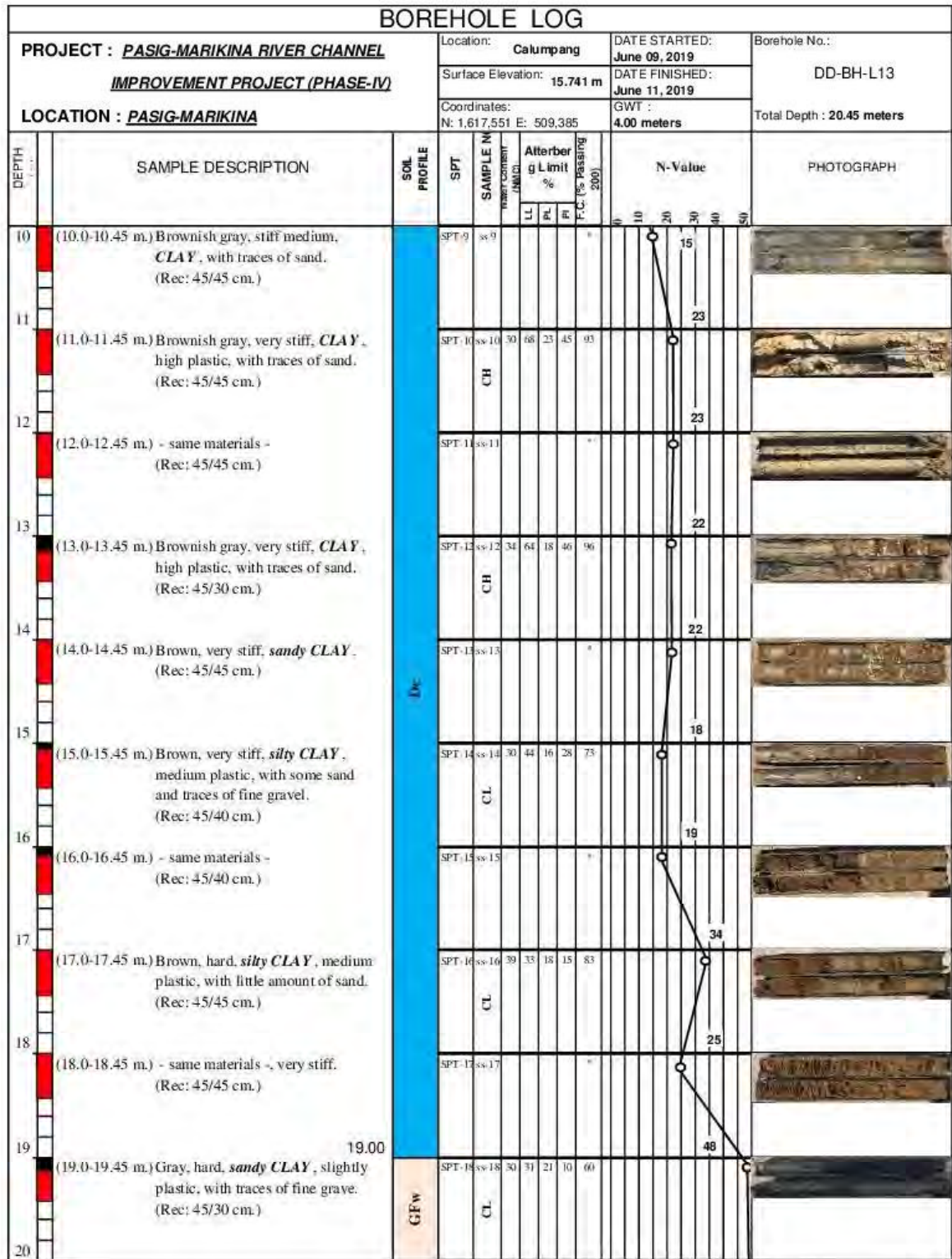


図5-3-1 (37/103) 柱状図 (本詳細設計実施分)

BOREHOLE LOG																		
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u> <u>IMPROVEMENT PROJECT (PHASE-IV)</u> LOCATION : <u>PASIG-MARIKINA</u>				Location: Calumpang		DATE STARTED: June 09, 2019		Borehole No.: DD-BH-L13 Total Depth : 20.45 meters										
				Surface Elevation: 15.741 m		DATE FINISHED: June 11, 2019												
				Coordinates: N: 1,617,551 E: 509,385		GWT : 4.00 meters												
DEPTH m	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE No. (M/C)	Atterberg Limit %			N-Value					PHOTOGRAPH					
					LL	PL	PI	10	20	30	40	50						
20.0-20.45	Gray, hard, <i>sandy CLAY</i> , medium plastic. (Rec: 45/30 cm.)	GFw	13	CL	25	35	18	17	60									
21																		
22																		
23	<i>End of borehole @ 20.45m depth</i>																	
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25																		
26																		
27																		
28																		
29																		
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図5-3-1 (38/103) 柱状図 (本詳細設計実施分)

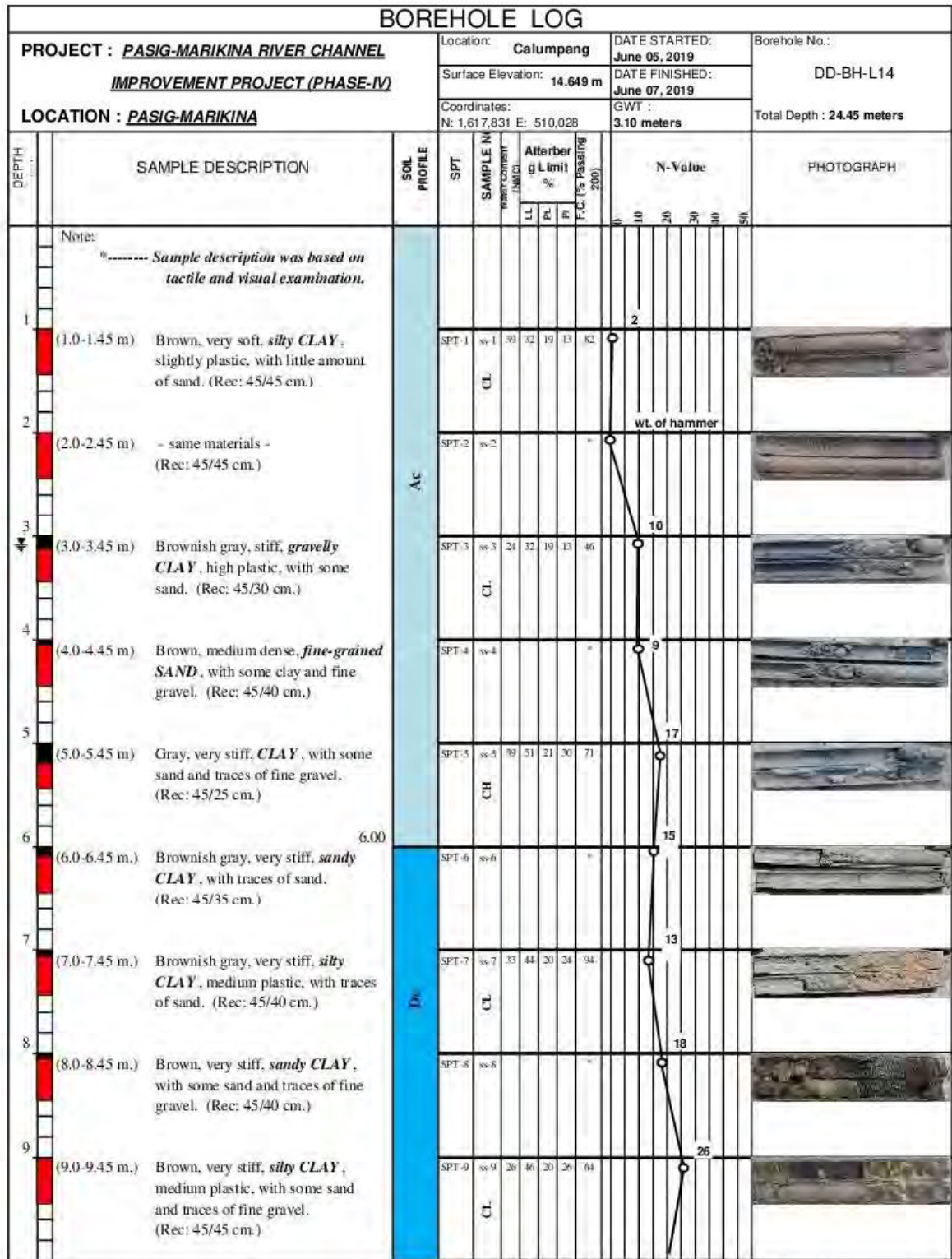


図5-3-1 (39/103) 柱状図 (本詳細設計実施分)

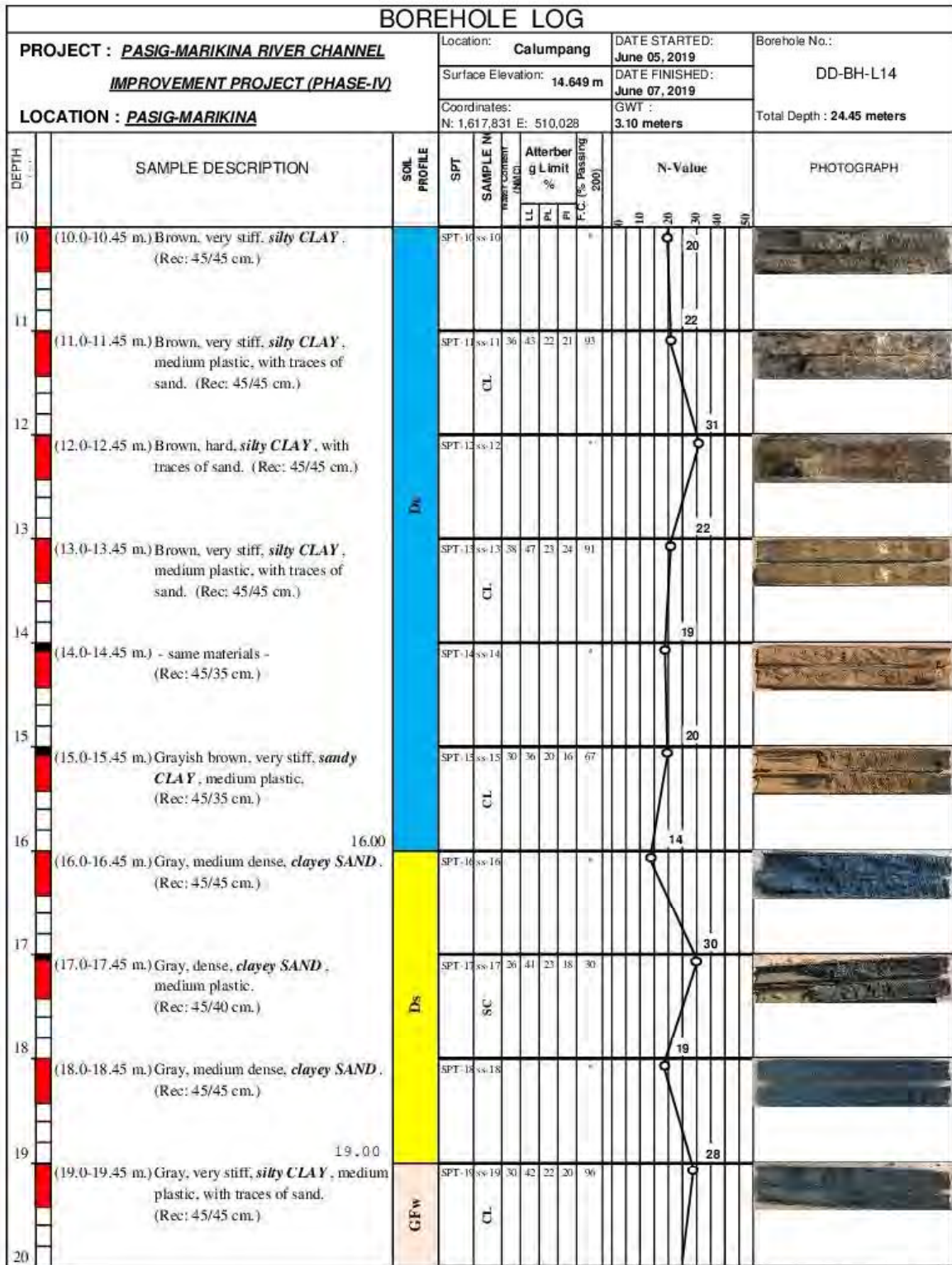


図5-3-1 (40/103) 柱状図 (本詳細設計実施分)

BOREHOLE LOG																	
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u> <u>IMPROVEMENT PROJECT (PHASE-IV)</u> LOCATION : <u>PASIG-MARIKINA</u>				Location: Calumpang		DATE STARTED: June 05, 2019		Borehole No.:									
				Surface Elevation: 14.649 m		DATE FINISHED: June 07, 2019		DD-BH-L14									
				Coordinates: N: 1,617,831 E: 510,028		GWT : 3.10 meters											
								Total Depth : 24.45 meters									
DEPTH (m)	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE No.	Water content (%)			Atterberg Limit %	F.C. (% Passing 200)	N-Value					PHOTOGRAPH		
					LL	PL	PI			10	15	20	30	40		50	
20.0-20.45	(20.0-20.45 m.) Grayish brown, very stiff, CLAY , some sand. (Rec: 45/40 cm.)	CFW	SPT-20	ss-20										25			
21.0-21.45	(21.0-21.45 m.) Gray, very stiff, CLAY , high plastic, with traces of sand. (Rec: 45/45 cm.)		SPT-21	ss-21	32	55	22	33	95								
22.0-22.45	(22.0-22.45 m.) Gray, hard, CLAY , with traces of sand. (Rec: 45/40 cm.)		SPT-22	ss-22													
23.0-23.45	(23.0-23.45 m.) Gray, hard, CLAY , high plastic, with traces of sand. (Rec: 45/35 cm.)		SPT-23	ss-23	27	57	24	33	99								
24.0-24.45	(24.0-24.45 m.) Gray, hard, CLAY , with traces of sand. (Rec: 45/40 cm.)		SPT-24	ss-24													
25	<i>End of borehole @ 24.45m depth</i>																
26																	
27																	
28																	
29																	
30																	

図5-3-1 (41/103) 柱状図 (本詳細設計実施分)






BOREHOLE LOG																		
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u> <u>IMPROVEMENT PROJECT (PHASE-IV)</u>				Location: MCGS		DATE STARTED: September 13, 2019		Borehole No.:										
LOCATION : <u>PASIG-MARIKINA</u>				Surface Elevation: 12.912 m		DATE FINISHED: September 13, 2019		BH-R01										
				Coordinates: N: 1,615,058 E: 508,743		GWT : Offshore		Total Depth : 5.0 meters										
DEPTH (m)	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE NO. TEST COMMENT (AMUC)	Atterberg Limit % F.C. (% Passing 200)					N-Value					PHOTOGRAPH			
					LL	PL	PI	F.C.	0	10	20	30	40	50				
0-1.0	Gray, moderately weathered, <i>fine-grained SANDSTONE</i> , moderately cemented. (Rec: 100/80/60 cm.)	GFT	CD	cs-1														
1.0-2.0	- same materials - (Rec: 100/100/100 cm.)		CD	cs-2														
2.0-3.0	- same materials - (Rec: 100/100/100 cm.)		CD	cs-3														
3.0-4.0	- same materials - (Rec: 100/100/100 cm.)		CD	cs-4														
4.0-5.0	Brownish gray, <i>fine-grained SANDSTONE</i> , well cemented. (Rec: 100/100/100 cm.)		CD	cs-5														
5.0																		
6.0	<i>End of borehole @ 5.00m depth</i>																	
7.0																		
8.0																		
9.0																		
10.0																		

図5-3-1 (42/103) 柱状図 (本詳細設計実施分)

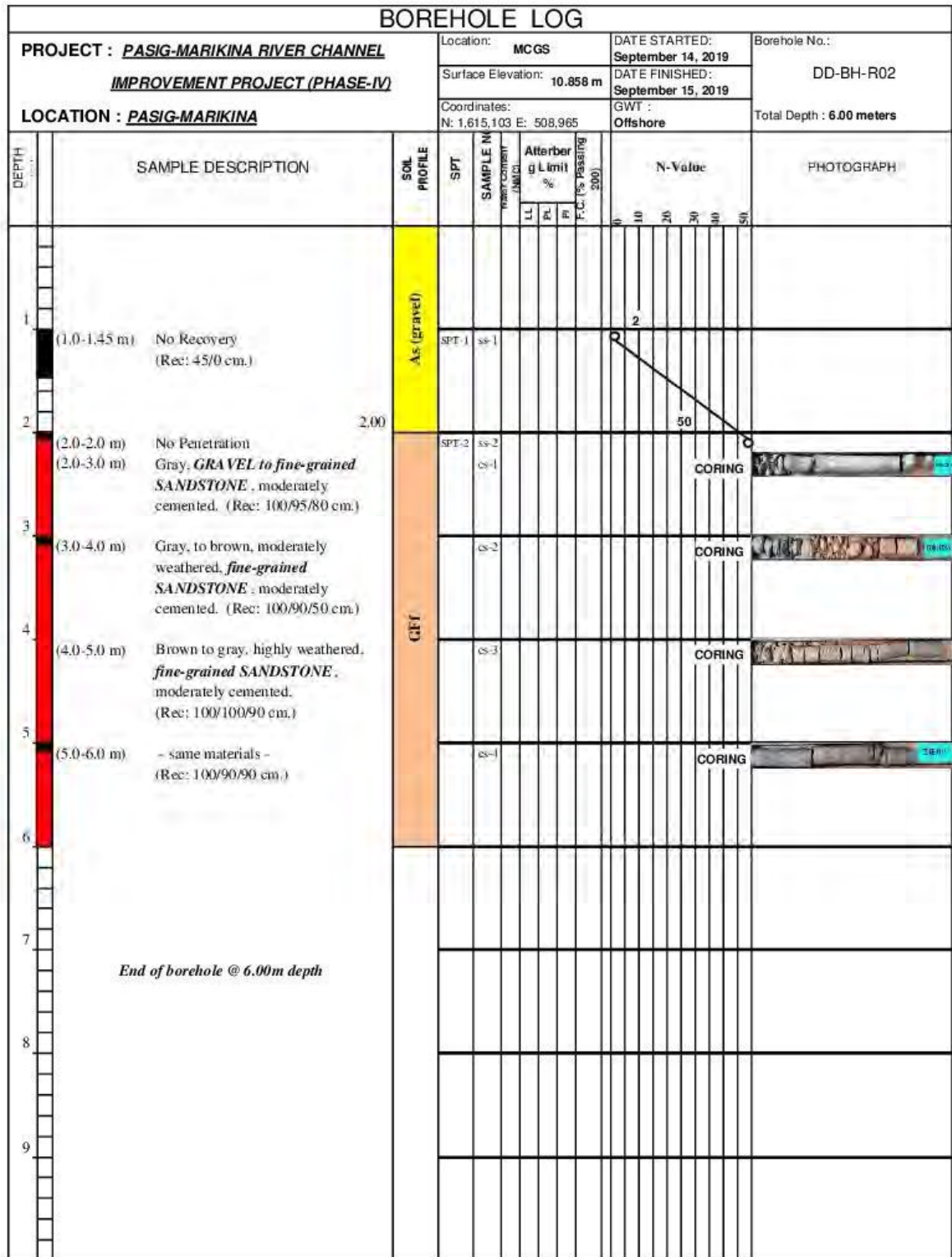


図5-3-1 (43/103) 柱状図 (本詳細設計実施分)

BOREHOLE LOG										
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u> <u>IMPROVEMENT PROJECT (PHASE-IV)</u>				Location: Bagumbayan		DATE STARTED: June 13, 2019		Borehole No.:		
LOCATION : <u>PASIG-MARIKINA</u>				Surface Elevation: 10.862 m		DATE FINISHED : June 15, 2019		DD-BH-R03		
				Coordinates: N: 1,614,938 E: 509,538		GWT : Offshore		Total Depth : 20.45 meters		
DEPTH (m)	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE No. (M/C)	Atterberg Limit (%)				N-Value	PHOTOGRAPH
					LL	PL	PI	F.C. (% passing 200)		
0.0-0.5	Gray, SAND and GRAVEL mixture with traces of non-plastic silt.	As		GM-SC	12	NP	NP	NP	3	
1.0-1.45	Gray, soft, silty CLAY. (Rec: 45/40 cm.)	Ds	SPT-1	sv-1						
2.0-2.45	Gray, soft, SAND and CLAY mixture, high plastic, with some fine gravel. (Rec: 45/40 cm.)	Ds	SPT-2	sv-2	24	69	29	40	44	
3.0-3.45	Gray, very soft, CLAY, medium plastic, with traces of sand. (Rec: 45/45 cm.)		UIDS-1		52	28	24	96		Pressed shelby tube
4.0-4.45	Gray, stiff, CLAY, medium plastic, with little amount of sand and fine gravel. (Rec: 45/35 cm.)		SPT-3	sv-3	61	54	27	27	76	
5.0-5.45	- same materials - (Rec: 45/40 cm.)		SPT-4	sv-4						
6.0-6.45	Gray, stiff, CLAY, high plastic, with little amount of sand. (Rec: 45/35 cm.)		SPT-5	sv-5	39	51	20	31	85	
7.0-7.45	- same materials - (Rec: 45/45 cm.)		SPT-6	sv-6						
8.0-8.45	Gray, stiff, CLAY, medium plastic, with little amount of sand. (Rec: 45/40 cm.)		SPT-7	sv-7	47	51	25	26	83	
9.0-9.45	- same materials -, very stiff. (Rec: 45/40 cm.)		SPT-8	sv-8						

図5-3-1 (44/103) 柱状図 (本詳細設計実施分)

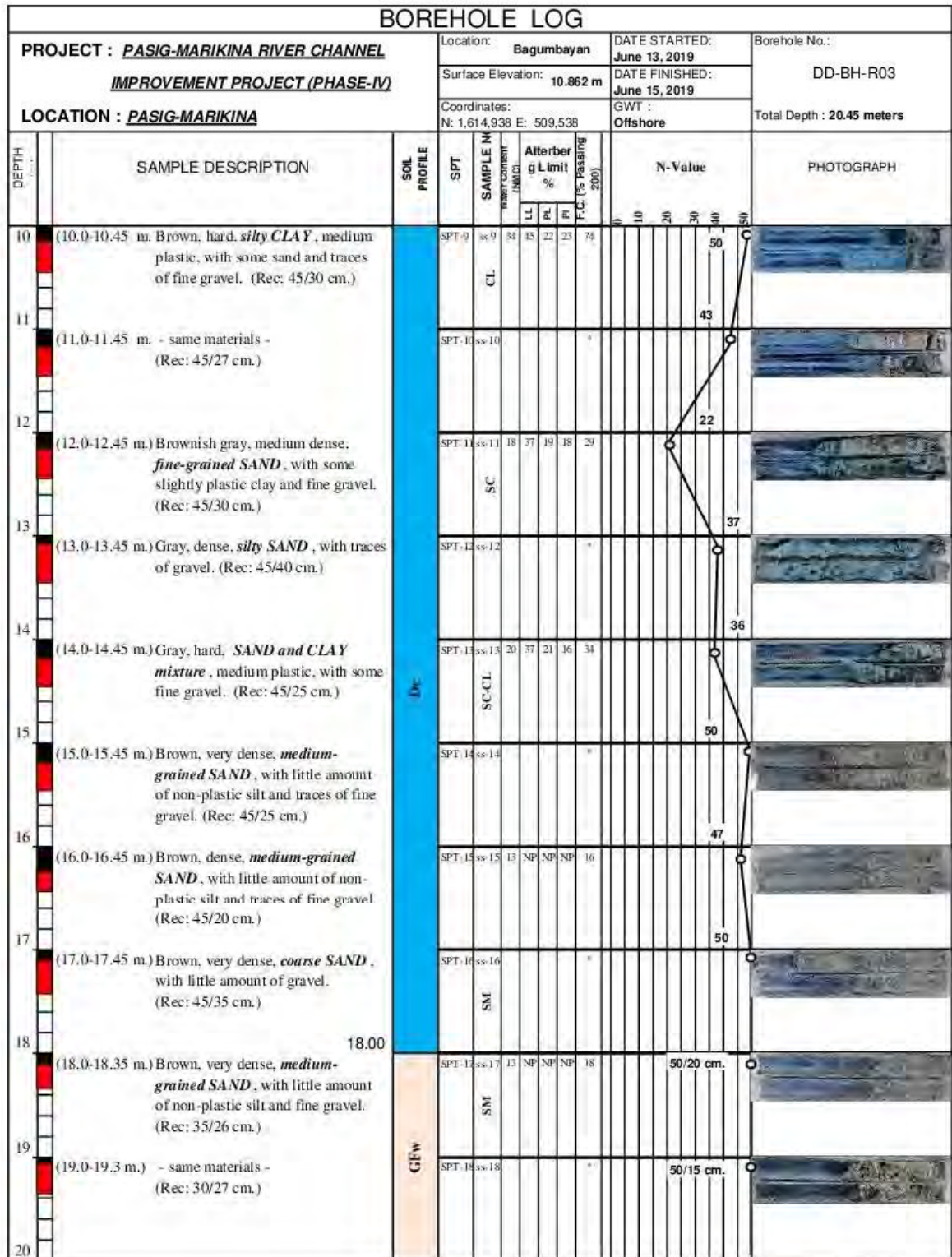


図5-3-1 (45/103) 柱状図 (本詳細設計実施分)


BOREHOLE LOG																			
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u> <u>IMPROVEMENT PROJECT (PHASE-IV)</u> LOCATION : <u>PASIG-MARIKINA</u>			Location: Bagumbayan				DATE STARTED: June 13, 2019		Borehole No.: DD-BH-R03										
			Surface Elevation: 10.862 m				DATE FINISHED: June 15, 2019		Total Depth : 20.45 meters										
			Coordinates: N: 1,614,938 E: 509,538				GWT : Offshore												
DEPTH	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE M percent content (M/M ₁₀₀)	Atterberg Limit % (% passing 200)					N-Value					PHOTOGRAPH				
					LI	PL	PI	FC	LC	10	20	30	40	50					
	(20.0-20.45 m.) Brown, SAND and GRAVEL mixture , with some non-plastic silt. (Rec: 45/30 cm.)	CFW	SPT 13	ss 19	16	37	22	15	23										
21	End of borehole @ 20.45m depth																		
22																			
23																			
24																			
25																			
26																			
27																			
28																			
29																			
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図5-3-1 (46/103) 柱状図 (本詳細設計実施分)

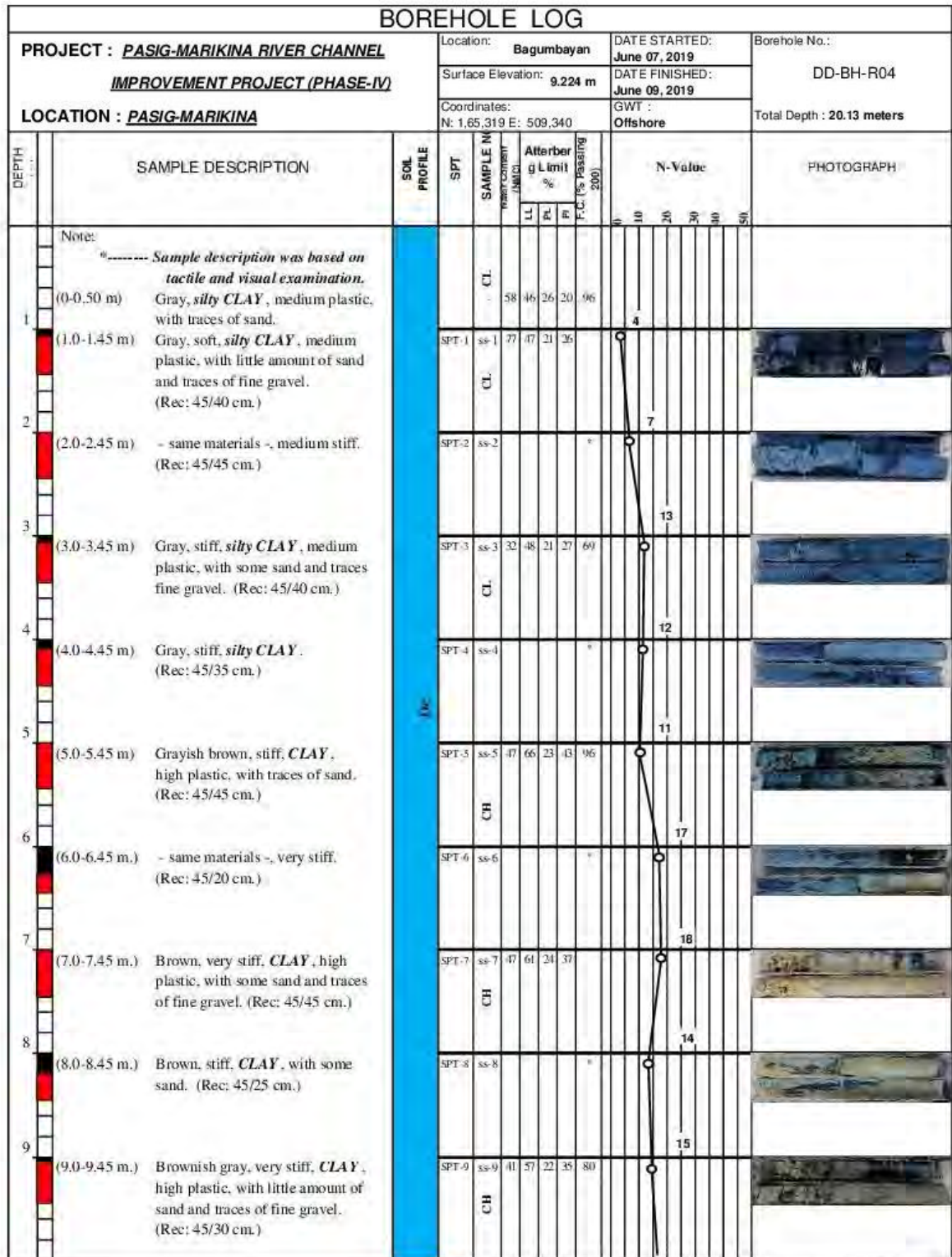


図5-3-1 (47/103) 柱状図 (本詳細設計実施分)

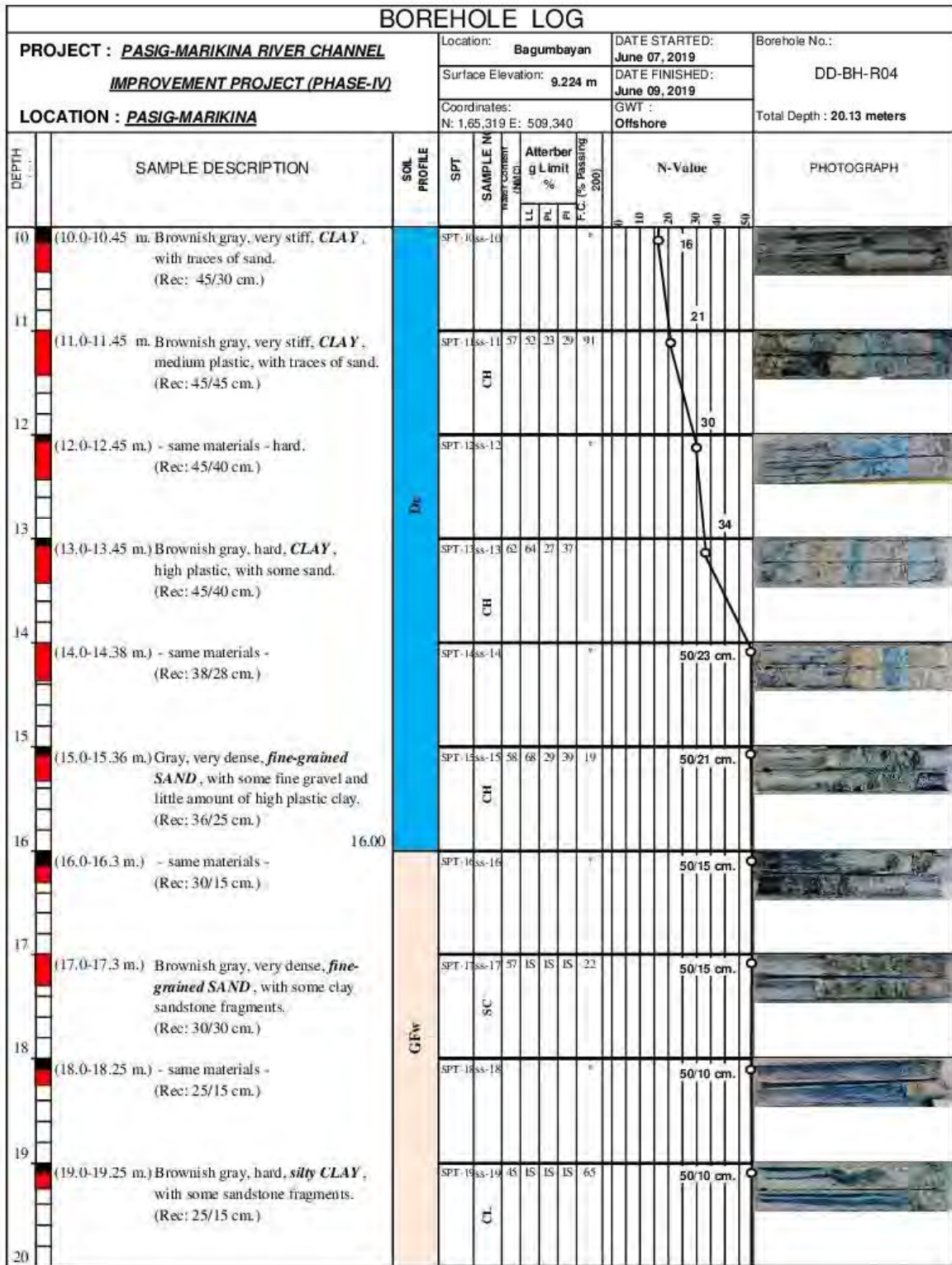


図5-3-1 (48/103) 柱状図 (本詳細設計実施分)


BOREHOLE LOG														
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u> <u>IMPROVEMENT PROJECT (PHASE-IV)</u>				Location: Bagumbayan		DATE STARTED: June 07, 2019		Borehole No.:						
LOCATION : <u>PASIG-MARIKINA</u>				Surface Elevation: 9.224 m		DATE FINISHED: June 09, 2019		DD-BH-R04						
				Coordinates: N: 1,65,319 E: 509,340		GWT : Offshore		Total Depth : 20.13 meters						
DEPTH (m)	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE No. (M/C)	Atterberg Limit %			N-Value					PHOTOGRAPH	
					LL	PL	PI	10	20	30	40	50		
20.0-20.13	(20.0-20.13 m.) Brownish gray, hard, <i>silty CLAY</i> , with some sandstone fragments. (Re: 13/8 cm.)	GFw	SPT 30 ss-20											
21														
22														
23	<i>End of borehole @ 20.13m depth</i>													
24														
25														
26														
27														
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29														
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図5-3-1 (49/103) 柱状図 (本詳細設計実施分)

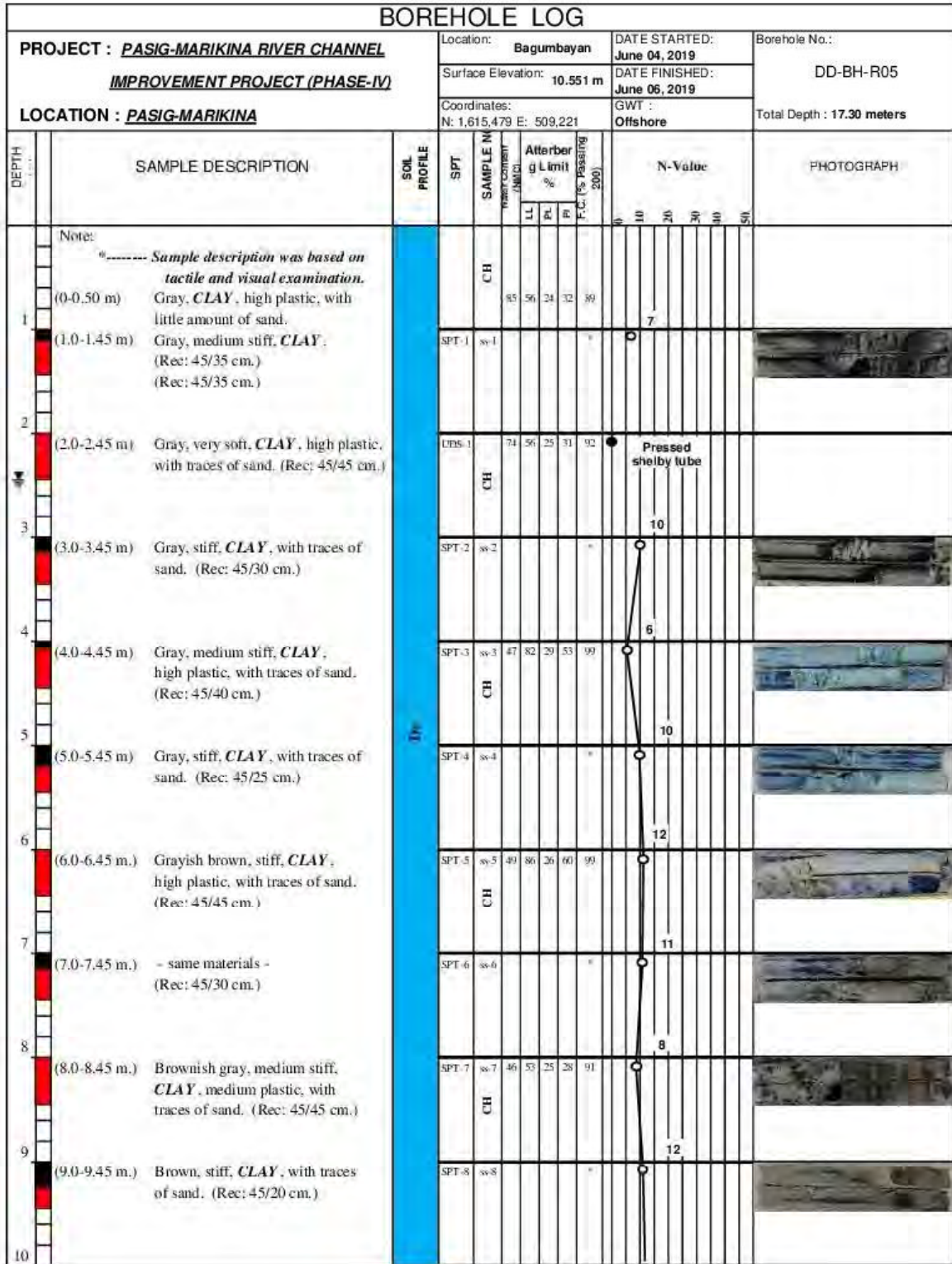


図5-3-1 (50/103) 柱状図 (本詳細設計実施分)

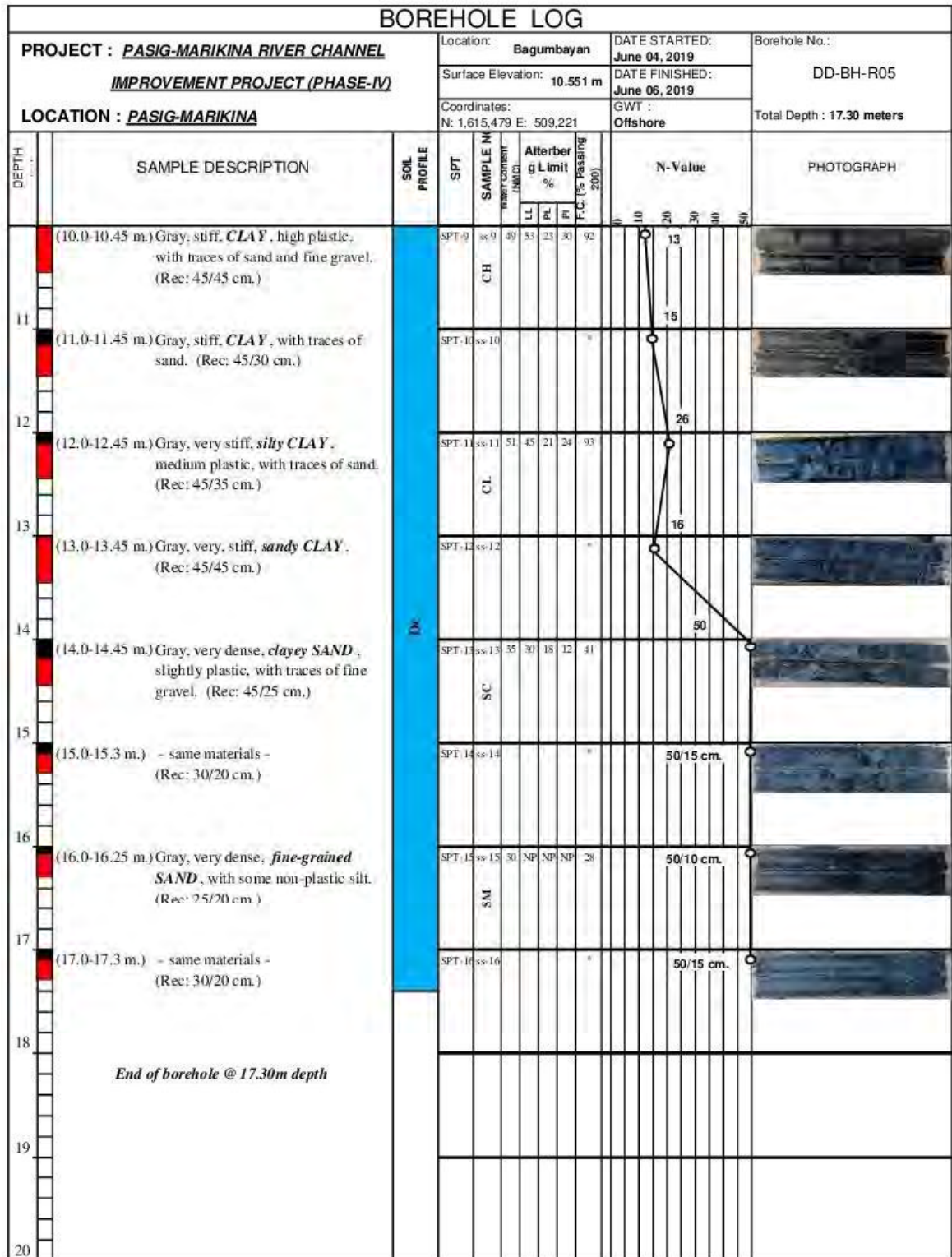


図5-3-1 (51/103) 柱状図 (本詳細設計実施分)

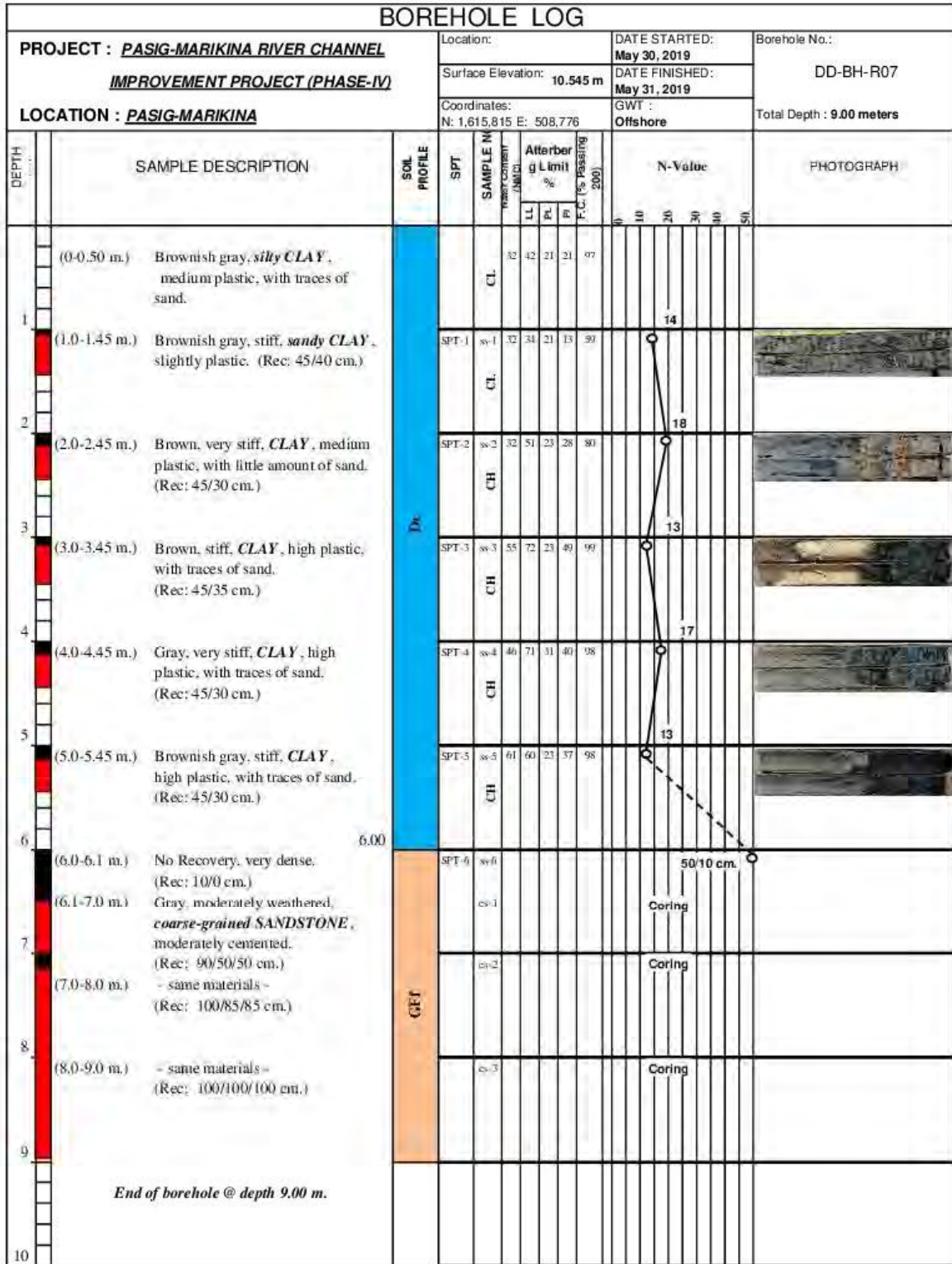


図5-3-1 (52/103) 柱状図 (本詳細設計実施分)

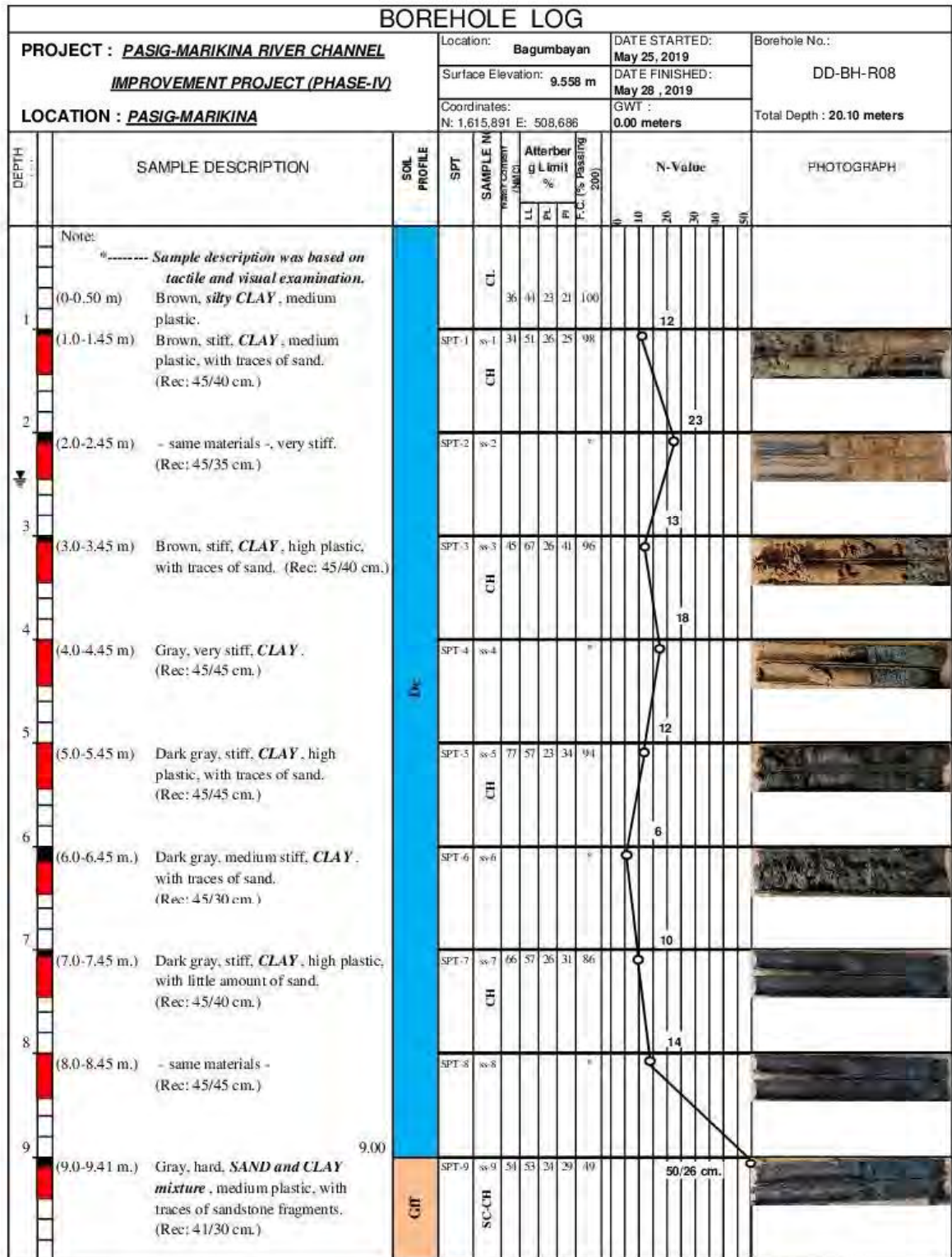


図5-3-1 (53/103) 柱状図 (本詳細設計実施分)

BOREHOLE LOG															
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u> <u>IMPROVEMENT PROJECT (PHASE-IV)</u>				Location: Bagumbayan		DATE STARTED: May 25, 2019		Borehole No.:							
LOCATION : <u>PASIG-MARIKINA</u>				Surface Elevation: 9.558 m		DATE FINISHED : May 28, 2019		DD-BH-R08							
				Coordinates: N: 1,615,891 E: 508,686		GWT : 0.00 meters		Total Depth : 20.10 meters							
DEPTH (m)	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE No. (M/C)	Atterberg Limit % (ASTM D 2487)			N-Value					PHOTOGRAPH		
					LI	PL	PI	0	10	20	30	40		50	
10	(10.0-10.3 m.) Gray, very dense, <i>clayey SAND</i> , (Rec: 30/20 cm.)	GFI	SPT-10	ss-10									50/15 cm.		
11	(11.0-11.38 m.) Gray, very dense, <i>silty SAND</i> , non-plastic. (Rec: 38/25 cm.)		SPT-11	ss-11	30	NP	NP	NP						50/23 cm.	
12	(12.0-12.3 m.) - same materials - (Rec: 30/20 cm.)		SPT-12	ss-12										50/15 cm.	
13	(13.0-13.30 m.) Gray, very dense, <i>medium-grained SAND</i> , with little amount of non-plastic silt. (Rec: 30/30 cm.)		SPT-13	ss-13	30	NP	NP	NP						50/15 cm.	
14	(14.0-14.25 m.) - same materials - (Rec: 25/25 cm.)		SPT-14	ss-14										50/10 cm.	
15	(15.0-15.15 m.) Gray, very dense, <i>fine-grained SAND</i> , with some non-plastic silt. (Rec: 15/10 cm.)		SPT-15	ss-15	36	NP	NP	NP						50/15 cm.	
16	(16.0-16.35 m.) - same materials - (Rec: 35/25 cm.)		SPT-16	ss-16										50/20 cm.	
17	(17.0-17.25 m.) Gray, very dense, <i>fine-grained SAND</i> , with little amount of non-plastic silt and sandstone fragments. (Rec: 25/15 cm.)		SPT-17	ss-17	47	NP	NP	NP						50/10 cm.	
18	(18.0-18.3 m.) - same materials - (Rec: 30/15 cm.)		SPT-18	ss-18										50/15 cm.	
19	(19.0-19.35 m.) Gray, very dense, <i>fine-grained SAND</i> , with some non-plastic silt. (Rec: 35/15 cm.)		SPT-19	ss-19	31	NP	NP	NP						50/20 cm.	
20															

図5-3-1 (54/103) 柱状図 (本詳細設計実施分)


BOREHOLE LOG											
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u> <u>IMPROVEMENT PROJECT (PHASE-IV)</u> LOCATION : <u>PASIG-MARIKINA</u>				Location: Bagumbayan		DATE STARTED: May 25, 2019		Borehole No.: DD-BH-R08 Total Depth : 20.10 meters			
				Surface Elevation: 9.558 m		DATE FINISHED: May 28, 2019					
				Coordinates: N: 1,615,891 E: 508,686		GWT : 0.00 meters					
DEPTH (m)	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE No.	Water content (%)			Atterberg Limit (%)		N-Value	PHOTOGRAPH
					W _c	W _L	W _P	LL	PL		
0	(20.0-20.1 m.) Gray, very dense, <i>medium-grained SAND</i> , (Rec: 10/7 cm.)	Gf	SPT 20 blows/20 cm							50/20 cm.	
21	(Rec: 10/7 cm.)										
	<i>End of borehole @ 20.10m depth</i>										
22											
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図5-3-1 (55/103) 柱状図 (本詳細設計実施分)

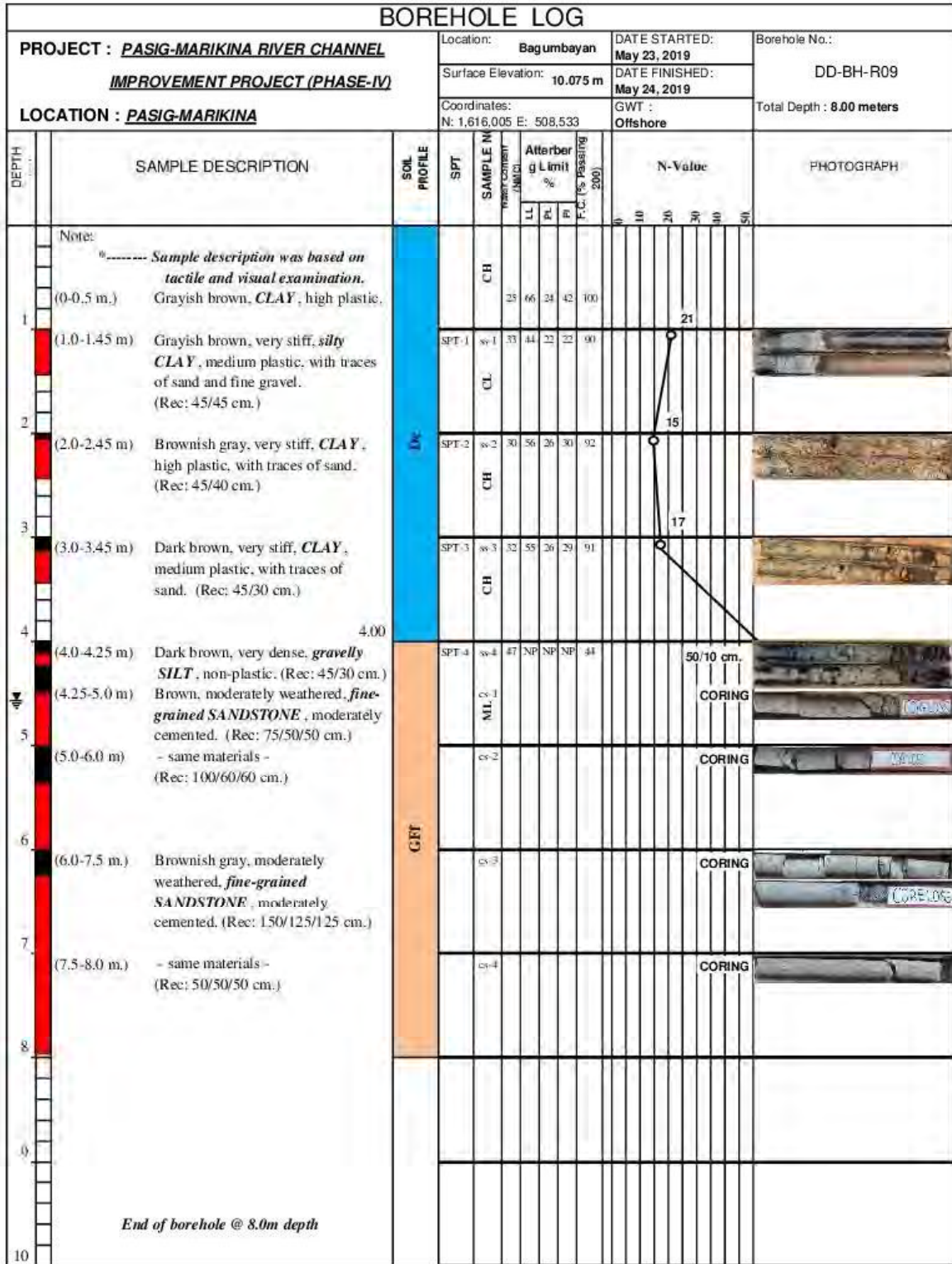


図5-3-1 (56/103) 柱状図 (本詳細設計実施分)

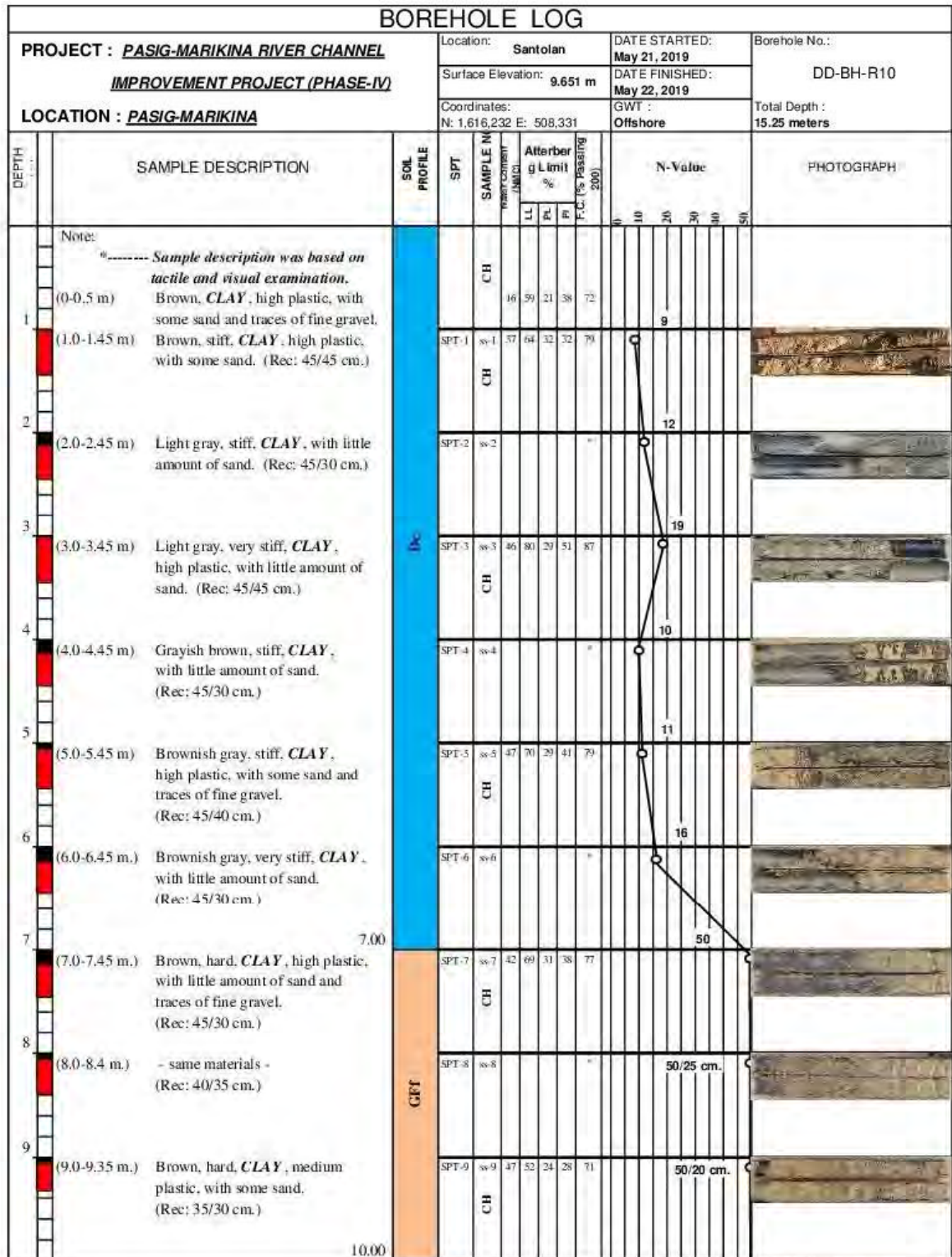


図5-3-1 (57/103) 柱状図 (本詳細設計実施分)

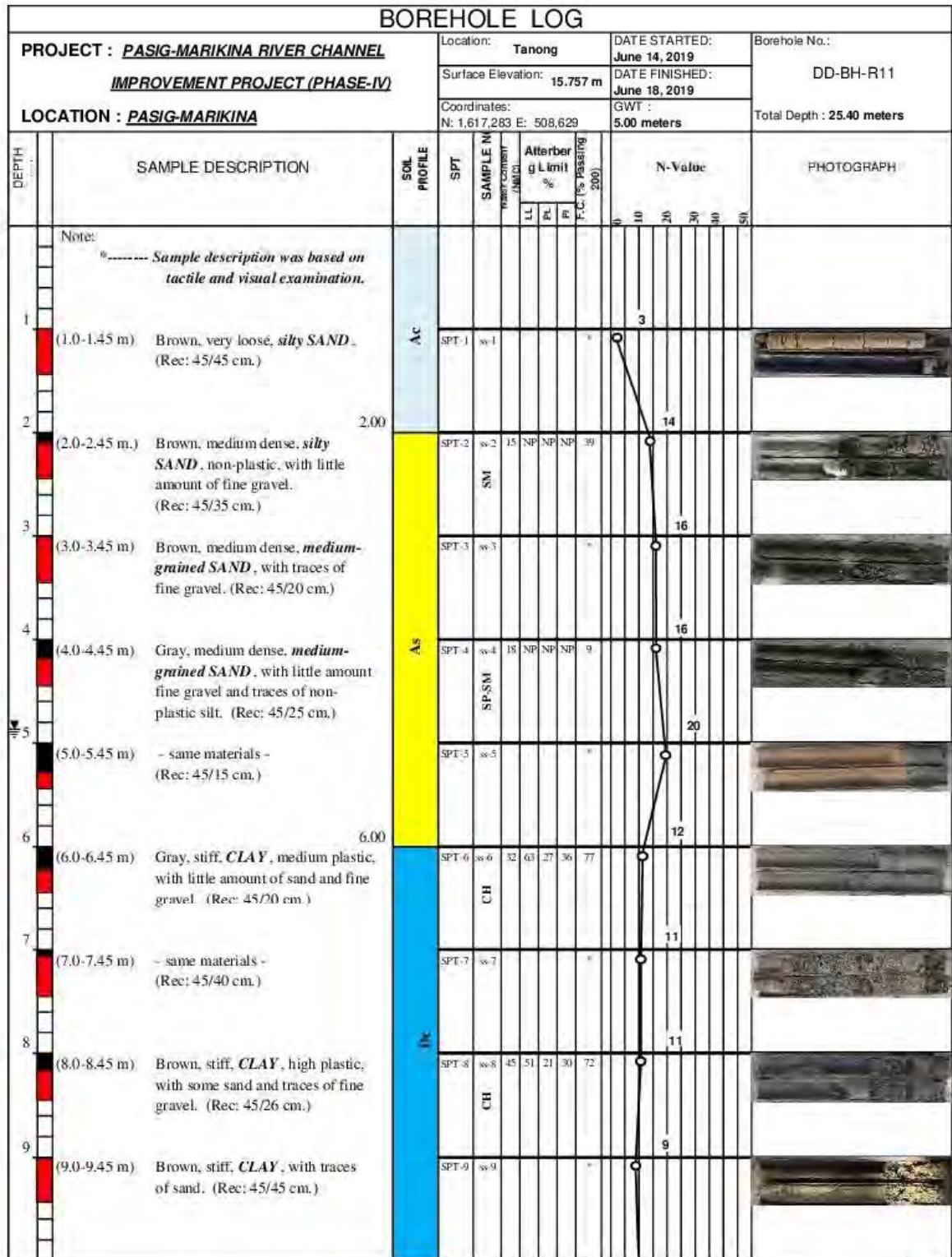


図5-3-1 (59/103) 柱状図 (本詳細設計実施分)

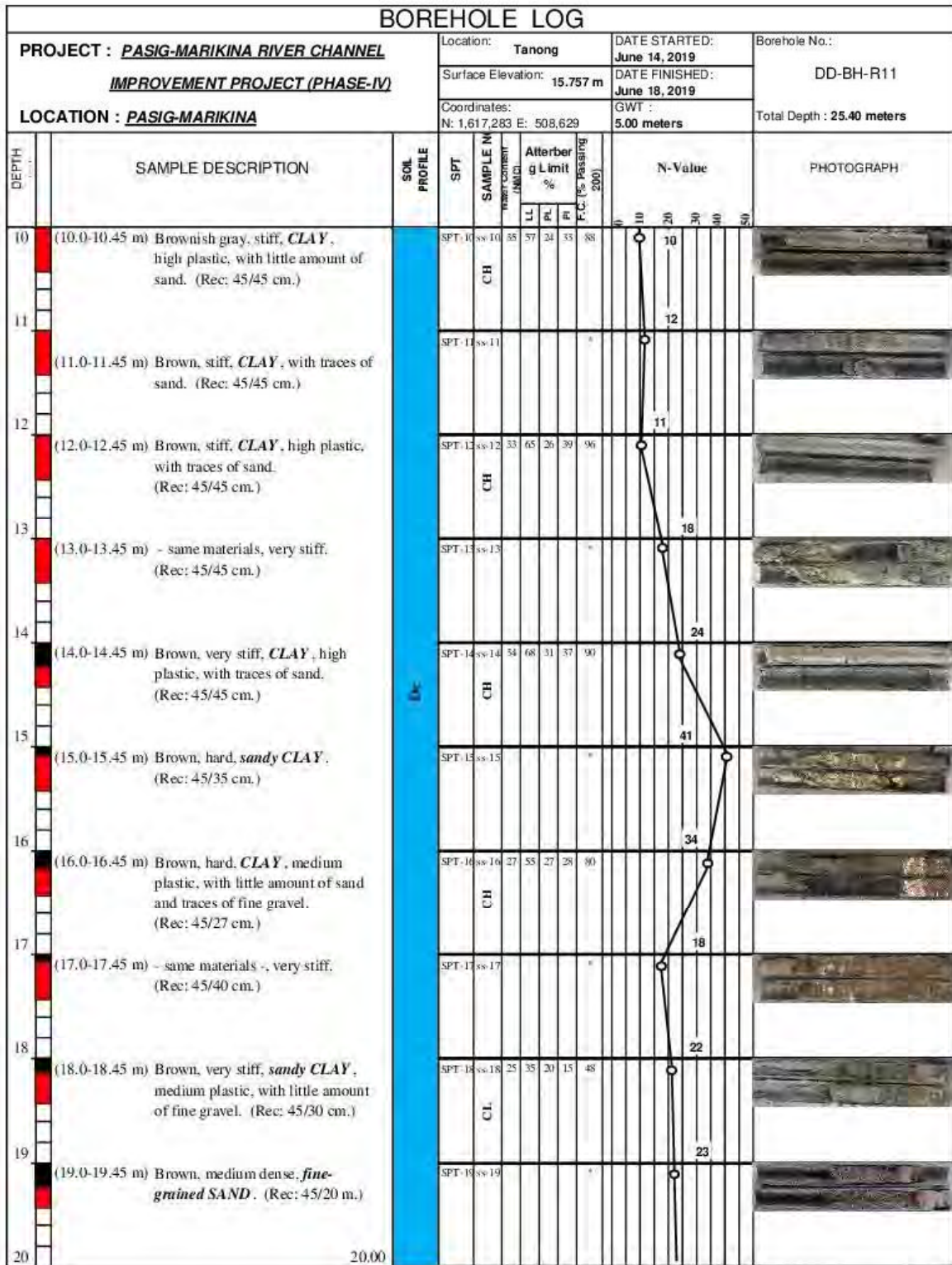


図5-3-1 (60/103) 柱状図 (本詳細設計実施分)

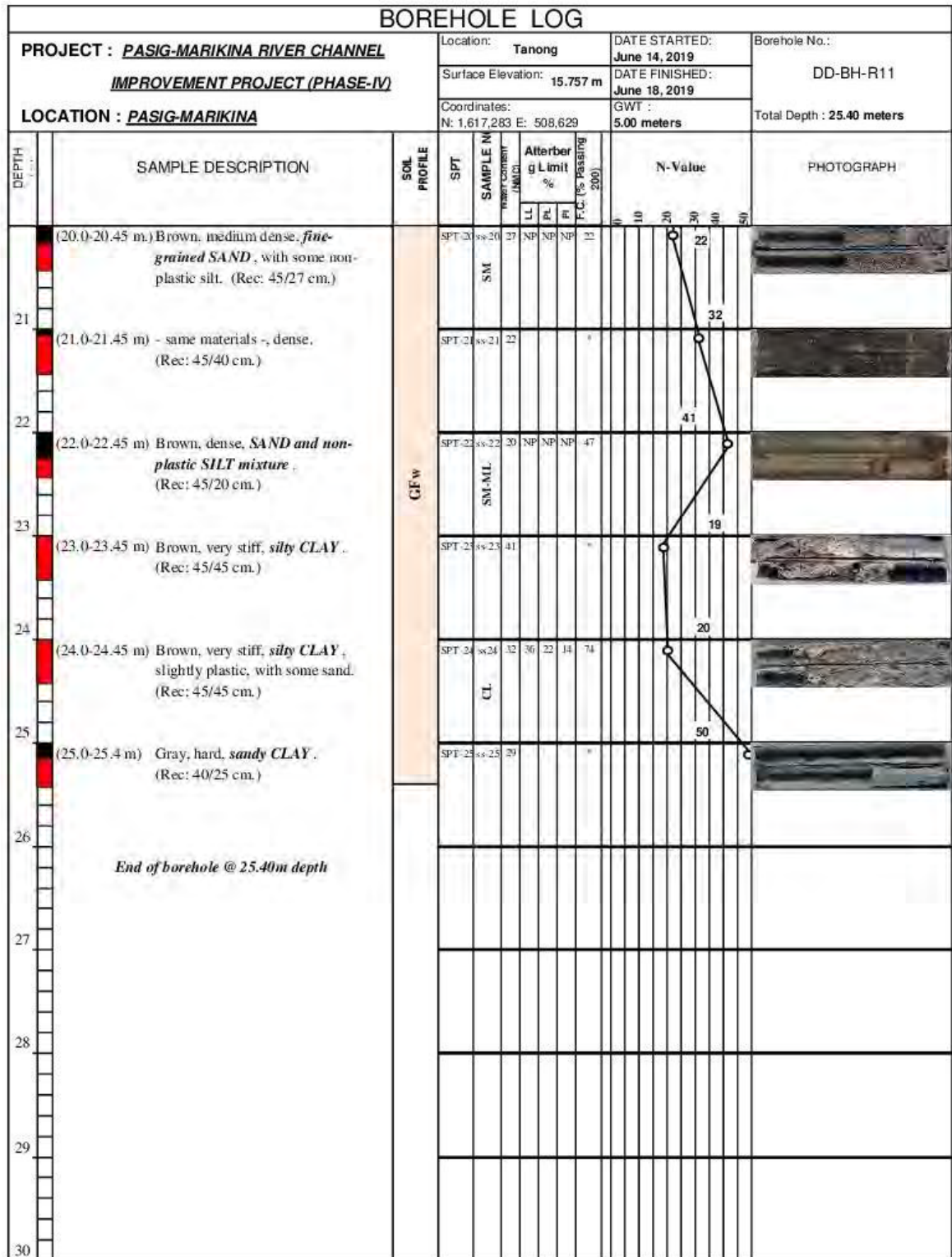


図5-3-1 (61/103) 柱状図 (本詳細設計実施分)

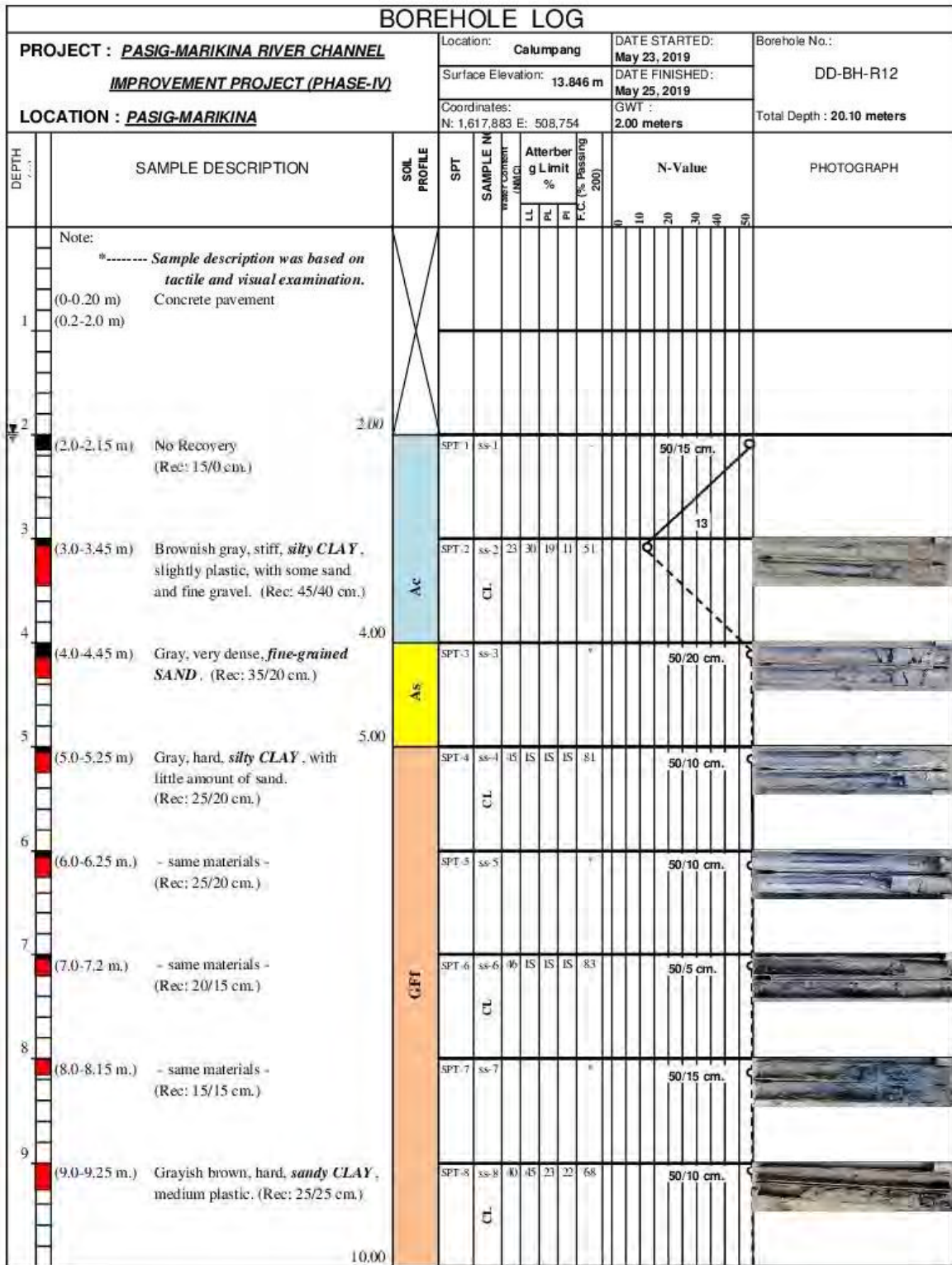


図5-3-1 (62/103) 柱状図 (本詳細設計実施分)

BOREHOLE LOG												
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u> <u>IMPROVEMENT PROJECT (PHASE-IV)</u>				Location: Calumpang		DATE STARTED: May 23, 2019		Borehole No.:				
LOCATION : <u>PASIG-MARIKINA</u>				Surface Elevation: 13.846 m		DATE FINISHED: May 25, 2019		DD-BH-R12				
				Coordinates: N: 1,617,883 E: 508,754		GWT : 2.00 meters		Total Depth : 20.10 meters				
DEPTH (m)	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE No.	Liquid Limit			Plasticity Index	N-Value	PHOTOGRAPH		
					LL	PL	PI					
10	(10.0-10.15 m) Brownish gray, hard, <i>SAND and CLAY mixture</i> , with traces of fine gravel. (Rec: 15/15 cm.)	GFF	SPT-9	ss-9					50/15 cm.			
11	(11.0-11.15 m) Brown, hard, <i>SAND and CLAY mixture</i> , medium plastic, with traces of fine gravel. (Rec: 15/15 cm.)		SPT-10	ss-10	51	57	25	32	43	50/15 cm.		
12	(12.0-12.45 m) Gray, dense, <i>fine to medium SAND</i> . (Rec: 45/45 cm.)		SPT-11	ss-11						44		
13	(13.0-13.3 m) Dark gray, very dense, <i>fine-grained SAND</i> , with little amount of non-plastic and traces of fine gravel. (Rec: 30/25 cm.)		SPT-12	ss-12	28	NP	NP	NP	NP	16	50/15 cm.	
14	(14.0-14.3 m) - same materials - (Rec: 30/20 cm.)		SPT-13	ss-13							50/15 cm.	
15	(15.0-15.15 m) Dark gray, very dense, <i>fine-grained SAND</i> , with some non-plastic silt and traces of fine gravel. (Rec: 15/15 cm.)		SPT-14	ss-14	24	NP	NP	NP	NP	27	50/15 cm.	
16	(16.0-16.3 m) Brown, very dense, <i>silty SAND</i> , with traces of gravel. (Rec: 30/25 cm.)		SPT-15	ss-15							50/15 cm.	
17	(17.0-17.1 m) No Recovery, very dense. (Rec: 10/0 cm.)		SPT-16	ss-16							50/10 cm.	
18	(18.0-18.15 m) Gray, very dense, <i>medium-grained SAND</i> , with traces of non-plastic silt. (Rec: 15/10 cm.)		SPT-17	ss-17							50/10 cm.	
19	(19.0-19.1 m) Brown, very dense, <i>fine-grained SAND</i> , with some non-plastic silt and traces of fine gravel. (Rec: 10/10 cm.)		SPT-18	ss-18	24	NP	NP	NP	NP	21	50/10 cm.	
20												

図5-3-1 (63/103) 柱状図 (本詳細設計実施分)

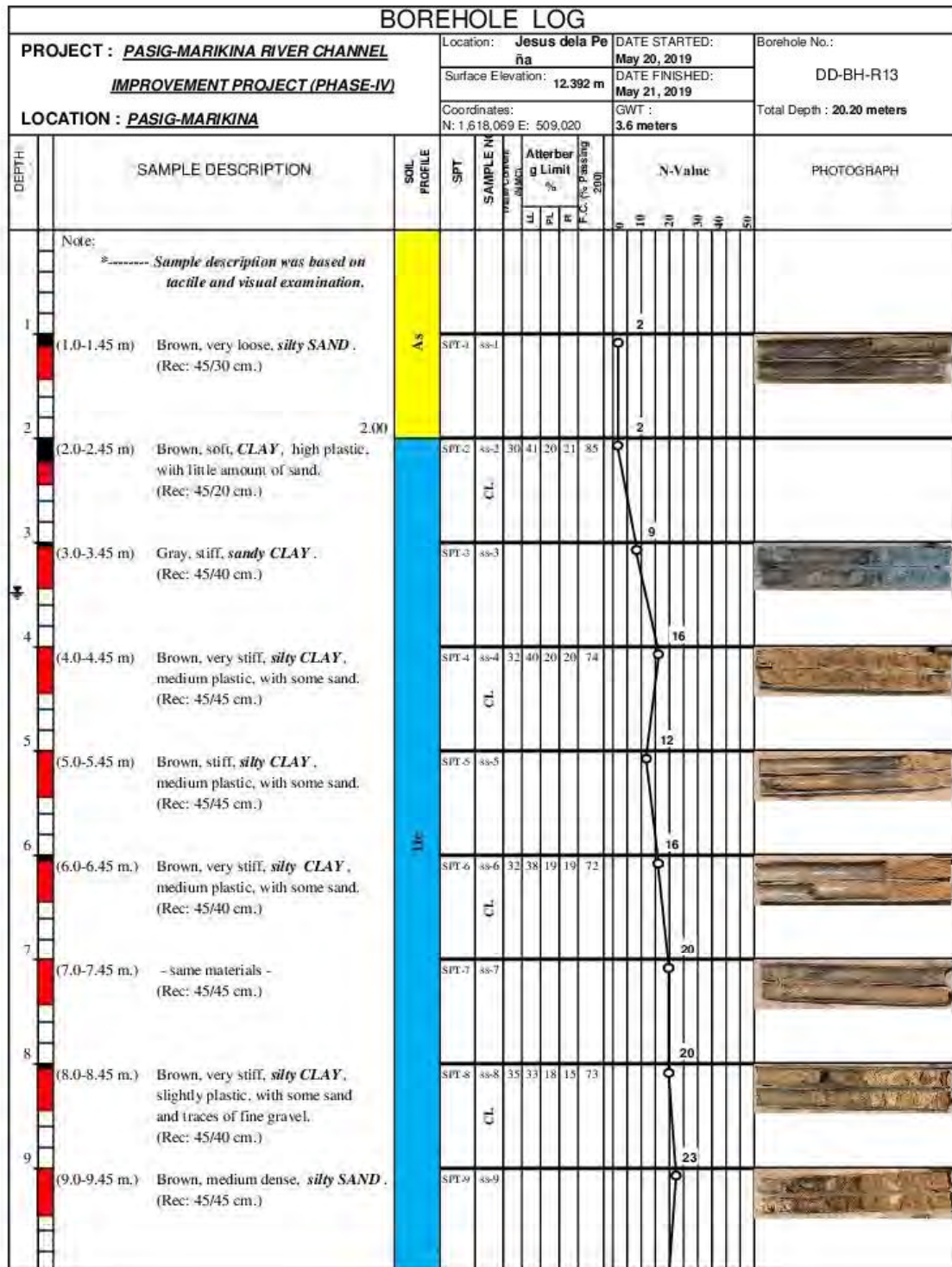


図5-3-1 (65/103) 柱状図 (本詳細設計実施分)

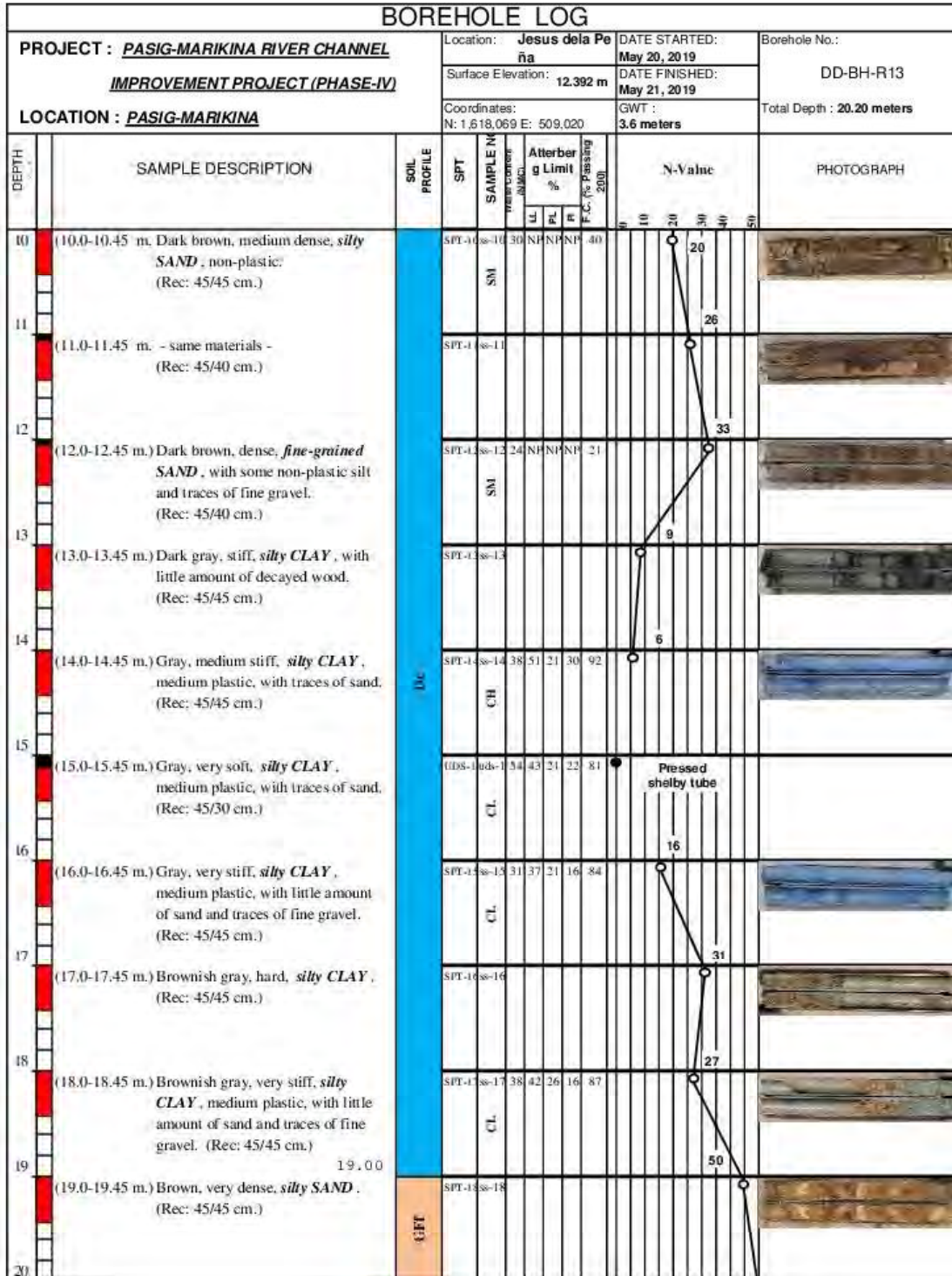


図5-3-1 (66/103) 柱状図 (本詳細設計実施分)


BOREHOLE LOG																
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u> <u>IMPROVEMENT PROJECT (PHASE-IV)</u>				Location: Jesus dela Peña		DATE STARTED: May 20, 2019		Borehole No.: DD-BH-R13								
LOCATION : <u>PASIG-MARIKINA</u>				Surface Elevation: 12.392 m		DATE FINISHED: May 21, 2019		Total Depth : 20.20 meters								
				Coordinates: N: 1,618,069 E: 509,020		GWT : 3.6 meters										
DEPTH (m)	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE NO. (M/MC)	Atterberg Limit %			N-Value					PHOTOGRAPH			
					LL	PL	P	0	10	20	30	40		50		
20.0-20.20	(20.0-20.20 m.) Brownish gray, very dense, GRAVEL , with some sand and clay. (Rec: 20/20 cm.)	GF	SPT-19	18	18	15	15	29								
21																
22	<i>End of borehole @ 20.20m depth</i>															
23																
24																
25																
26																
27																
28																
29																
30																

図5-3-1 (67/103) 柱状図 (本詳細設計実施分)

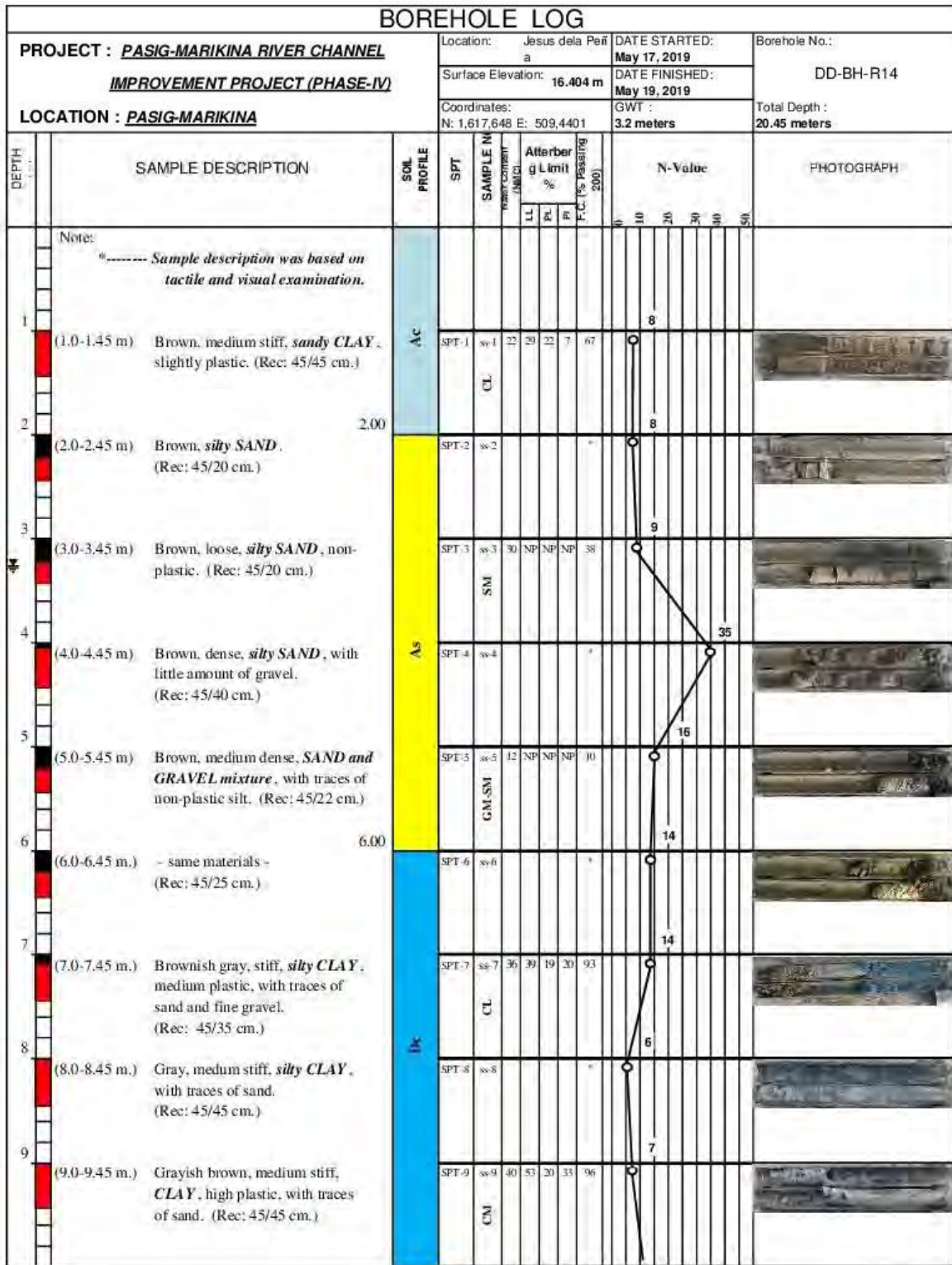


図5-3-1 (68/103) 柱状図 (本詳細設計実施分)

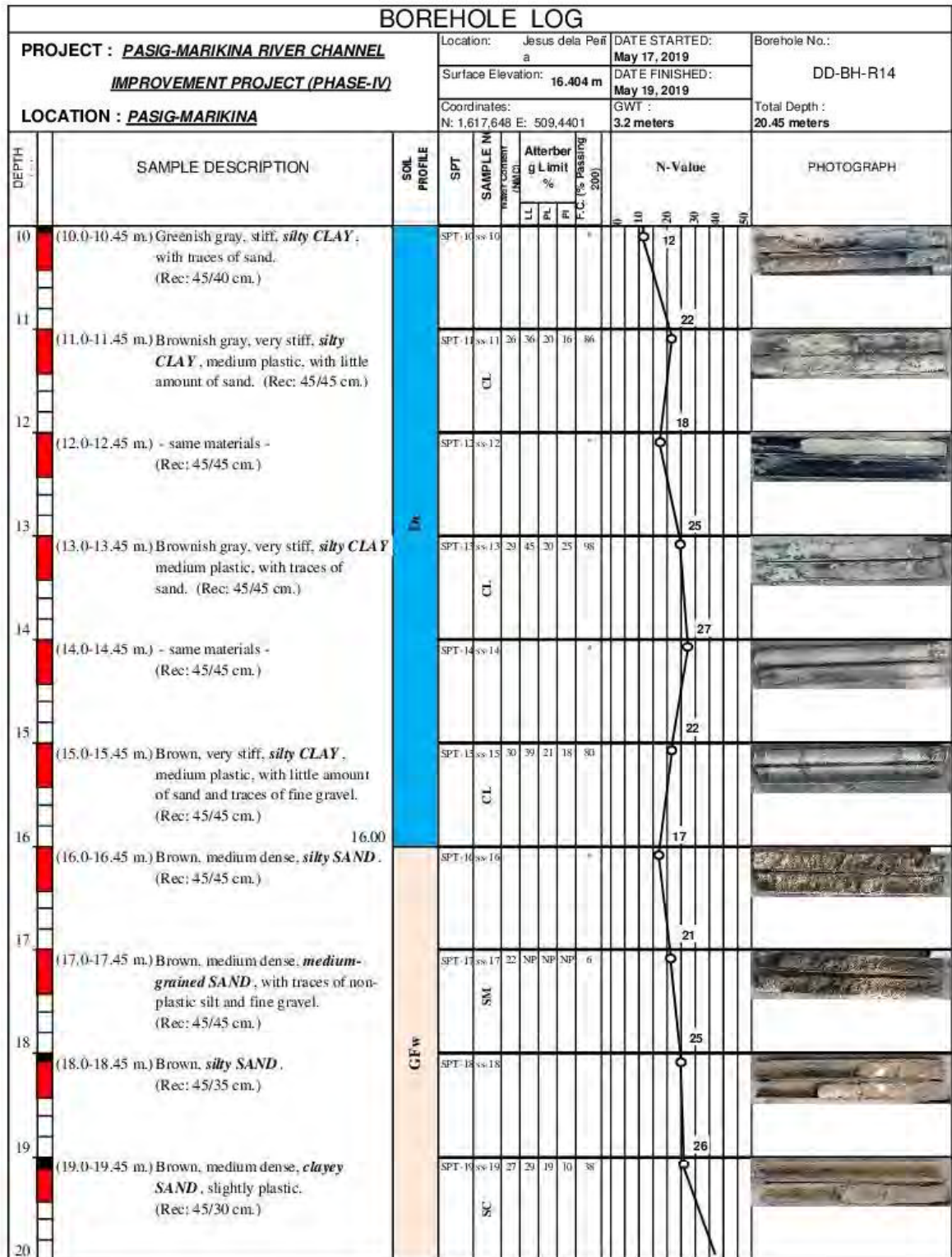


図5-3-1 (69/103) 柱状図 (本詳細設計実施分)


BOREHOLE LOG																	
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u> <u>IMPROVEMENT PROJECT (PHASE-IV)</u>				Location: Jesus dela Peña		DATE STARTED: May 17, 2019		Borehole No.: DD-BH-R14									
LOCATION : <u>PASIG-MARIKINA</u>				Surface Elevation: 16.404 m		DATE FINISHED: May 19, 2019		Total Depth : 20.45 meters									
				Coordinates: N: 1,617,648 E: 509,4401		GWT : 3.2 meters											
DEPTH (m)	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE NUMBER	Atterberg Limit			N-Value					PHOTOGRAPH				
					LI (%)	PL (%)	PI (%)	0	10	20	30	40		SPT			
20.0-20.45	(20.0-20.45 m.) Brown, dense, <i>silty SAND</i> , with traces of fine gravel. (Rec: 45/25 cm.)	GfW	SPT 21	SP-20													
21																	
22	End of borehole @ 20.45m depth																
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	

図5-3-1 (70/103) 柱状図 (本詳細設計実施分)

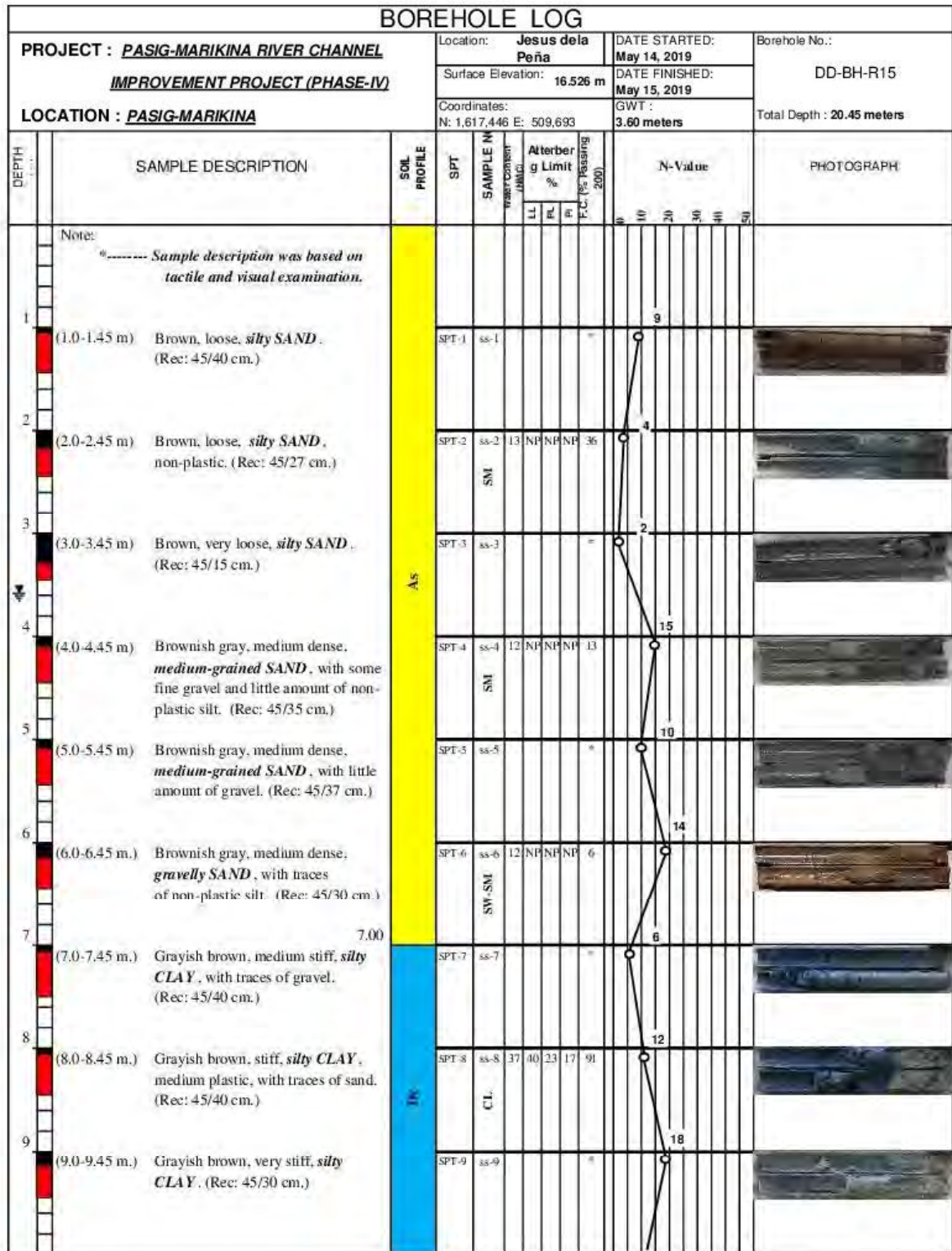


図5-3-1 (71/103) 柱状図 (本詳細設計実施分)

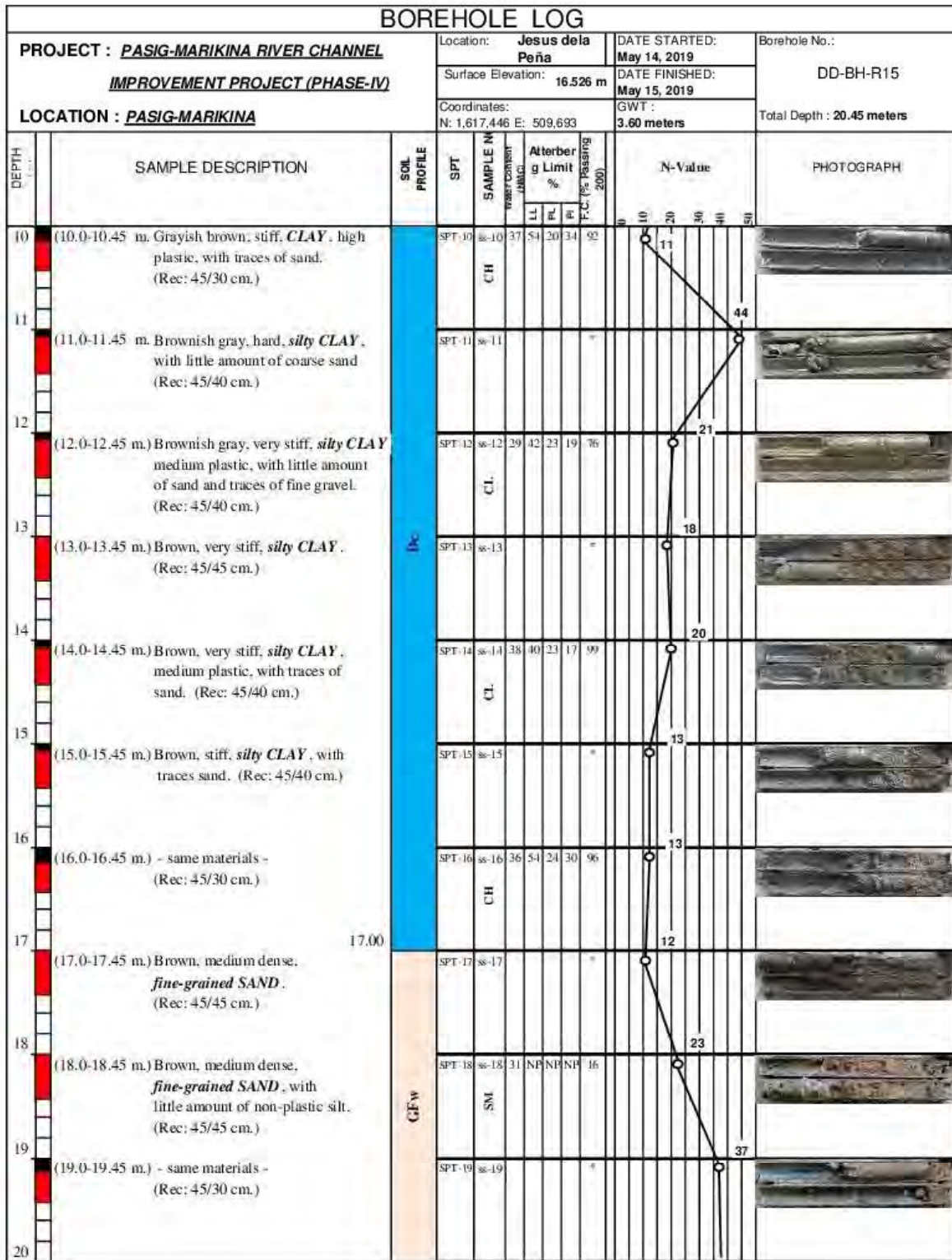


図5-3-1 (72/103) 柱状図 (本詳細設計実施分)


BOREHOLE LOG																	
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u> <u>IMPROVEMENT PROJECT (PHASE-IV)</u> LOCATION : <u>PASIG-MARIKINA</u>				Location: Jesus dela Peña		DATE STARTED: May 14, 2019		Borehole No.: DD-BH-R15 Total Depth : 20.45 meters									
				Surface Elevation: 16.526 m		DATE FINISHED: May 15, 2019											
				Coordinates: N: 1,617,446 E: 509,693		GWT : 3.60 meters											
DEPTH (meters)	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE NO.	WATER CONTENT (%)	Atterberg Limit %			N-Value					PHOTOGRAPH			
						LL	PL	PI	0	10	20	30	40		50		
20.0-20.45	(20.0-20.45 m.) Brown, medium dense, <i>fine-grained SAND</i> , with some non-plastic silt and traces of fine gravel. (Rec: 45/36 cm.)	GF-W	SPT 30	SM-20	36	NH	NH	5	18								
21																	
22																	
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	

図5-3-1 (73/103) 柱状図 (本詳細設計実施分)

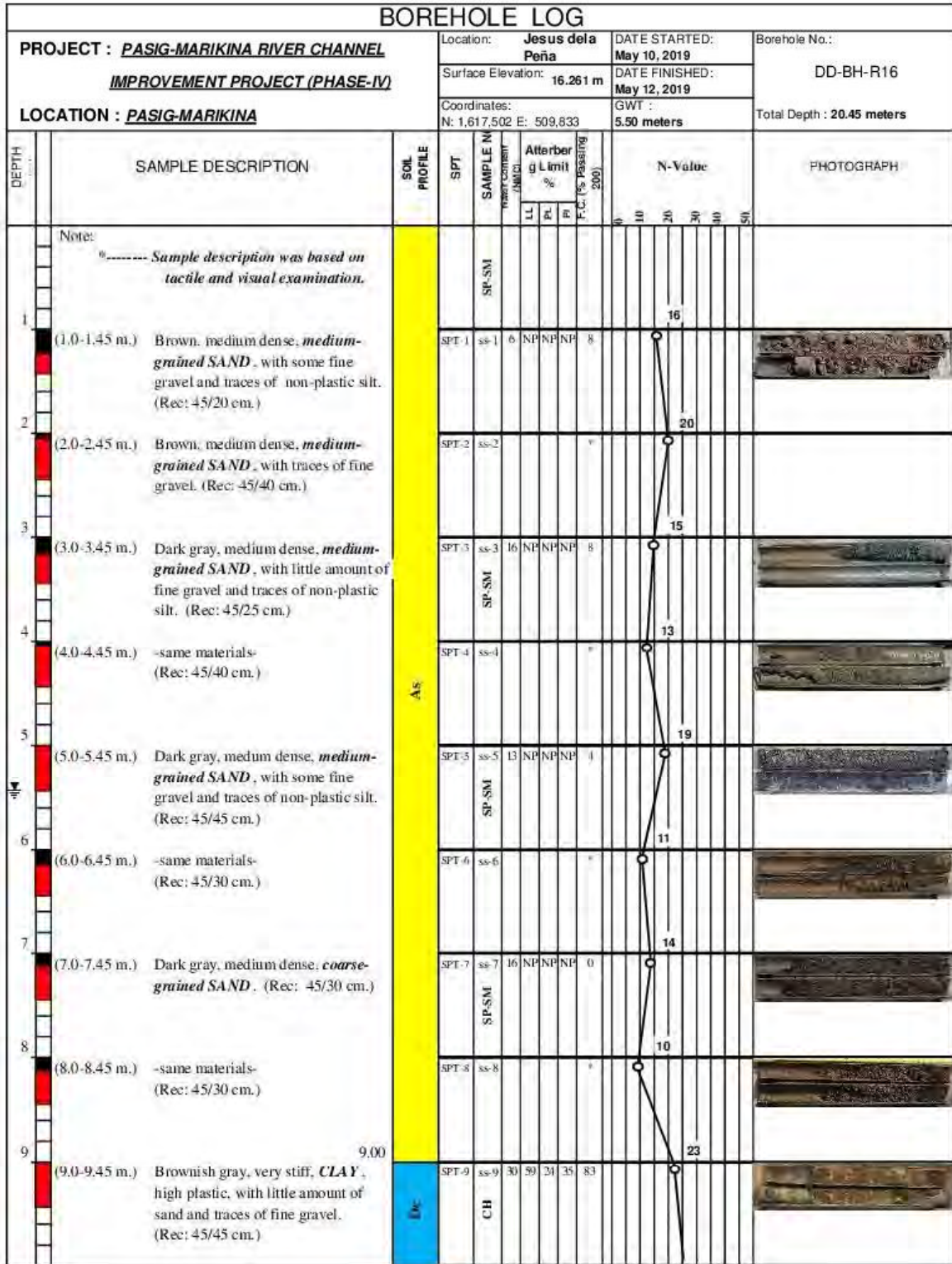


図5-3-1 (74/103) 柱状図 (本詳細設計実施分)

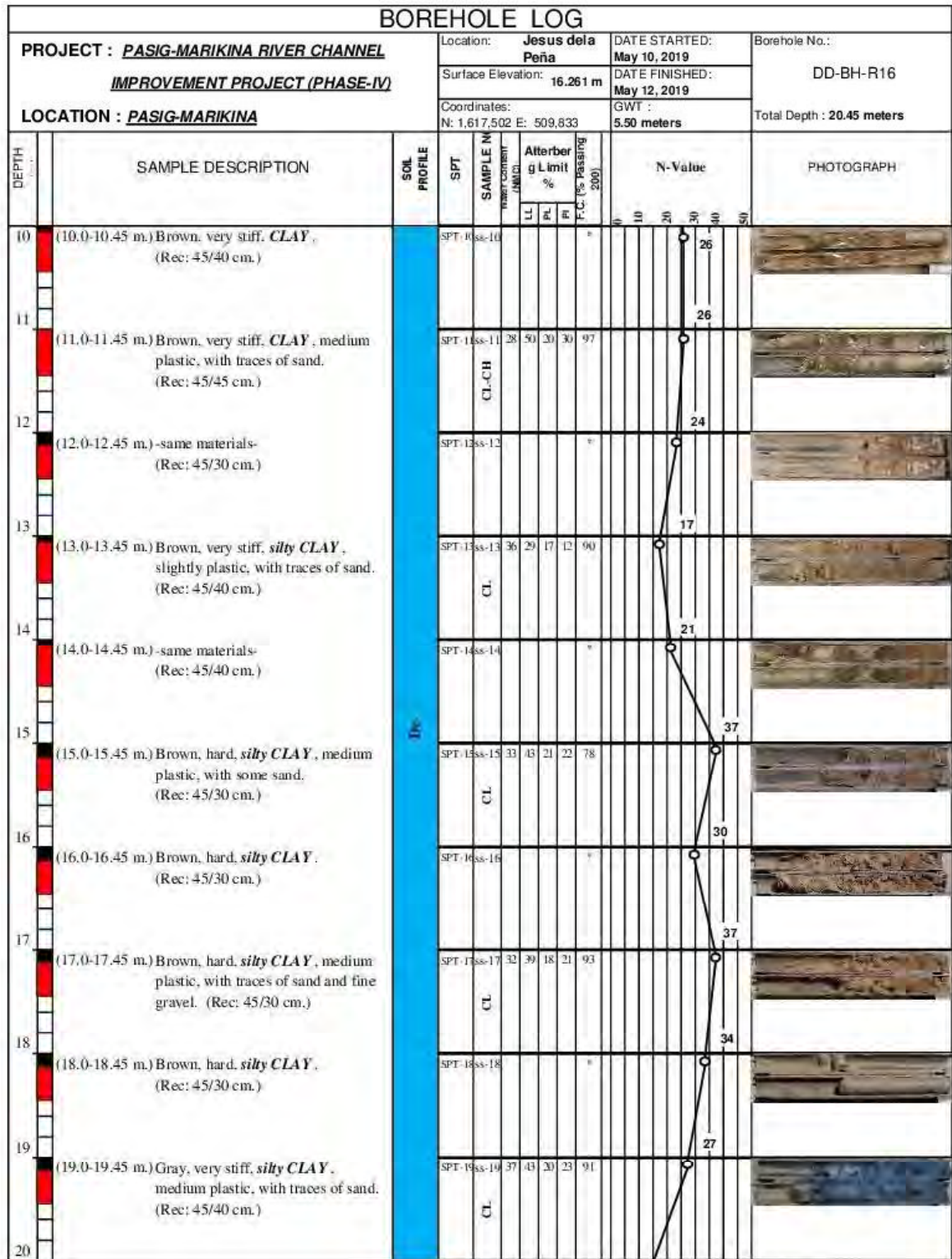


図5-3-1 (75/103) 柱状図 (本詳細設計実施分)

BOREHOLE LOG																				
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u> <u>IMPROVEMENT PROJECT (PHASE-IV)</u>				Location: Jesus dela Peña		DATE STARTED: May 10, 2019		Borehole No.: DD-BH-R16												
				Surface Elevation: 16.261 m		DATE FINISHED: May 12, 2019														
LOCATION : <u>PASIG-MARIKINA</u>				Coordinates: N: 1,617,502 E: 509,833		GWT : 5.50 meters		Total Depth : 20.45 meters												
DEPTH (m)	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE No. (M/C)	Atterberg Limit %			N-Value					PHOTOGRAPH							
					LL	PL	PI	0	10	20	30	40		50						
20.0-20.45	(20.0-20.45 m.) Gray, very stiff, <i>silty CLAY</i> . (Rec: 45/45 cm.)	Pe	SPT 33-20																	
21	<i>End of borehole @ depth 20.45 m.</i>																			
22																				
23																				
24																				
25																				
26																				
27																				
28																				
29																				
30																				

図5-3-1 (76/103) 柱状図 (本詳細設計実施分)

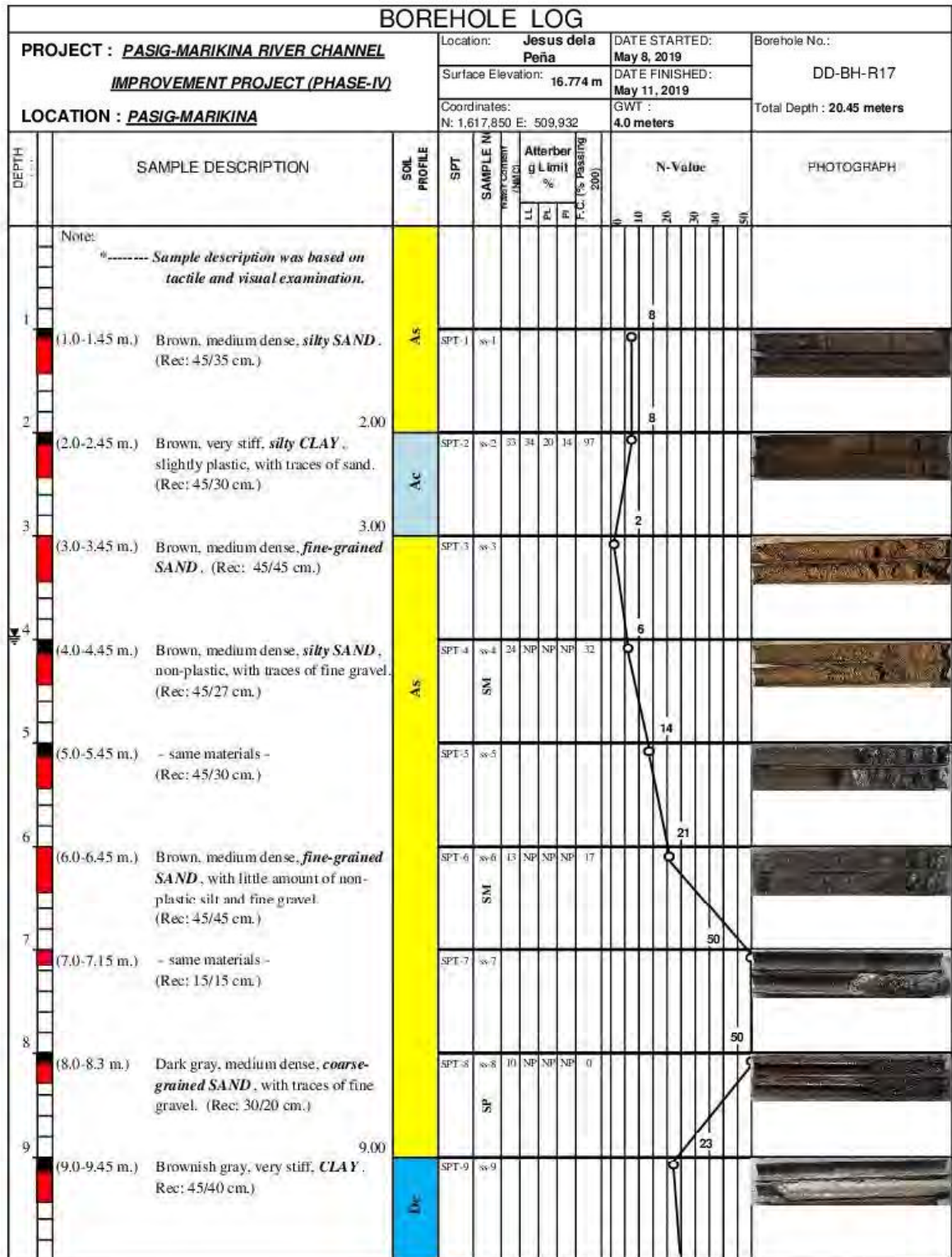


図5-3-1 (77/103) 柱状図 (本詳細設計実施分)

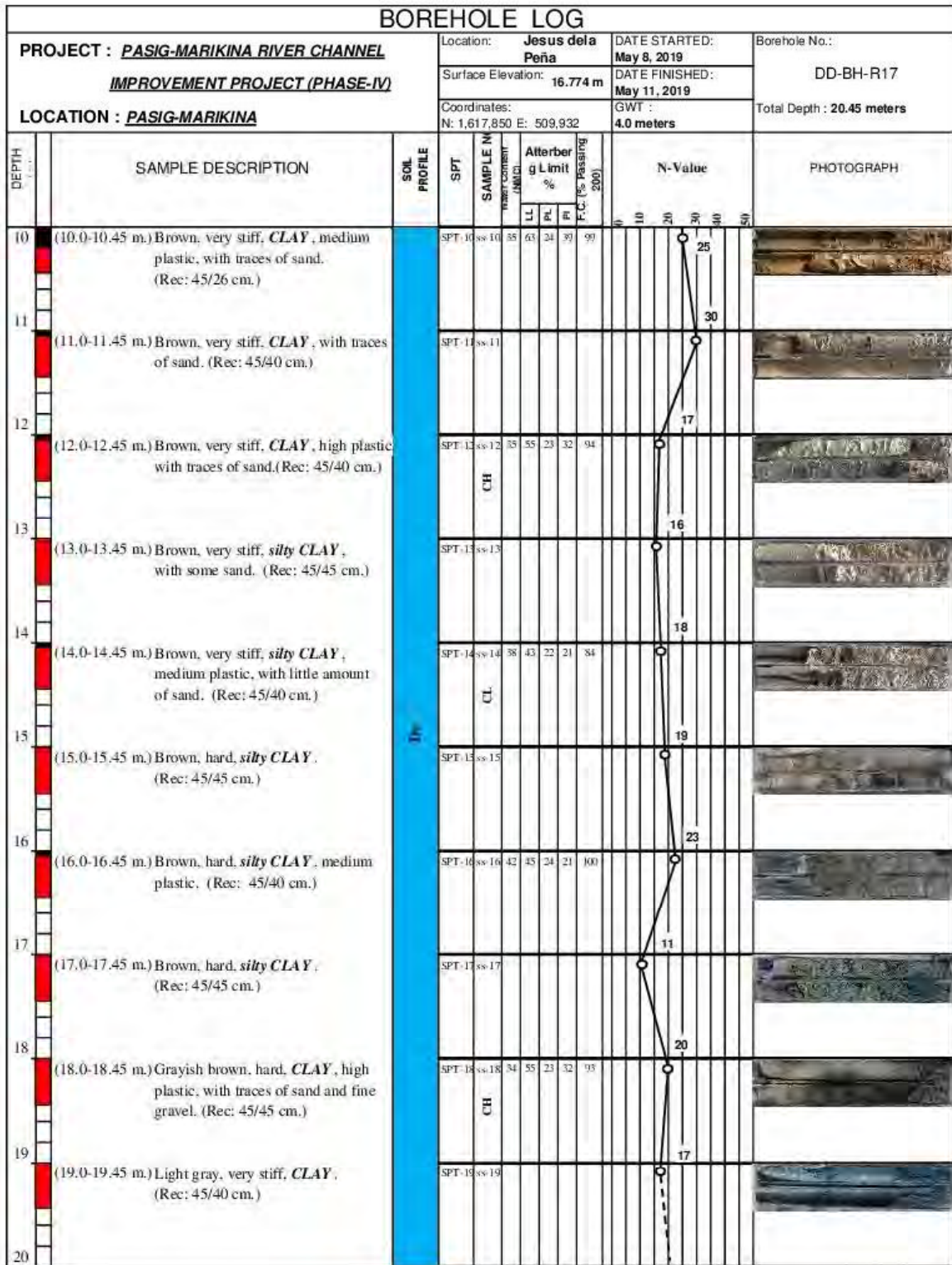


図5-3-1 (78/103) 柱状図 (本詳細設計実施分)


BOREHOLE LOG																	
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u> <u>IMPROVEMENT PROJECT (PHASE-IV)</u> LOCATION : <u>PASIG-MARIKINA</u>				Location: Jesus dela Peña		DATE STARTED: May 8, 2019		Borehole No.: DD-BH-R17									
				Surface Elevation: 16.774 m		DATE FINISHED: May 11, 2019											
				Coordinates: N: 1,617,850 E: 509,932		GWT: 4.0 meters		Total Depth: 20.45 meters									
DEPTH (meters)	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE No.	Moisture content (%)	Atterberg Limit (%)			F.C. (% Passing 200)	N-Value					PHOTOGRAPH		
						LL	PL	PI		10	15	20	30	40		50	
20.0-20.45	Light gray, very stiff, CLAY , high plastic, with traces of sand and fine gravel. (Rec: 45/40 cm.)	Dr	SPT-3	CH	34	69	22	47	96								
21																	
22	<i>End of borehole @ depth 20.45 m.</i>																
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	

図5-3-1 (79/103) 柱状図 (本詳細設計実施分)

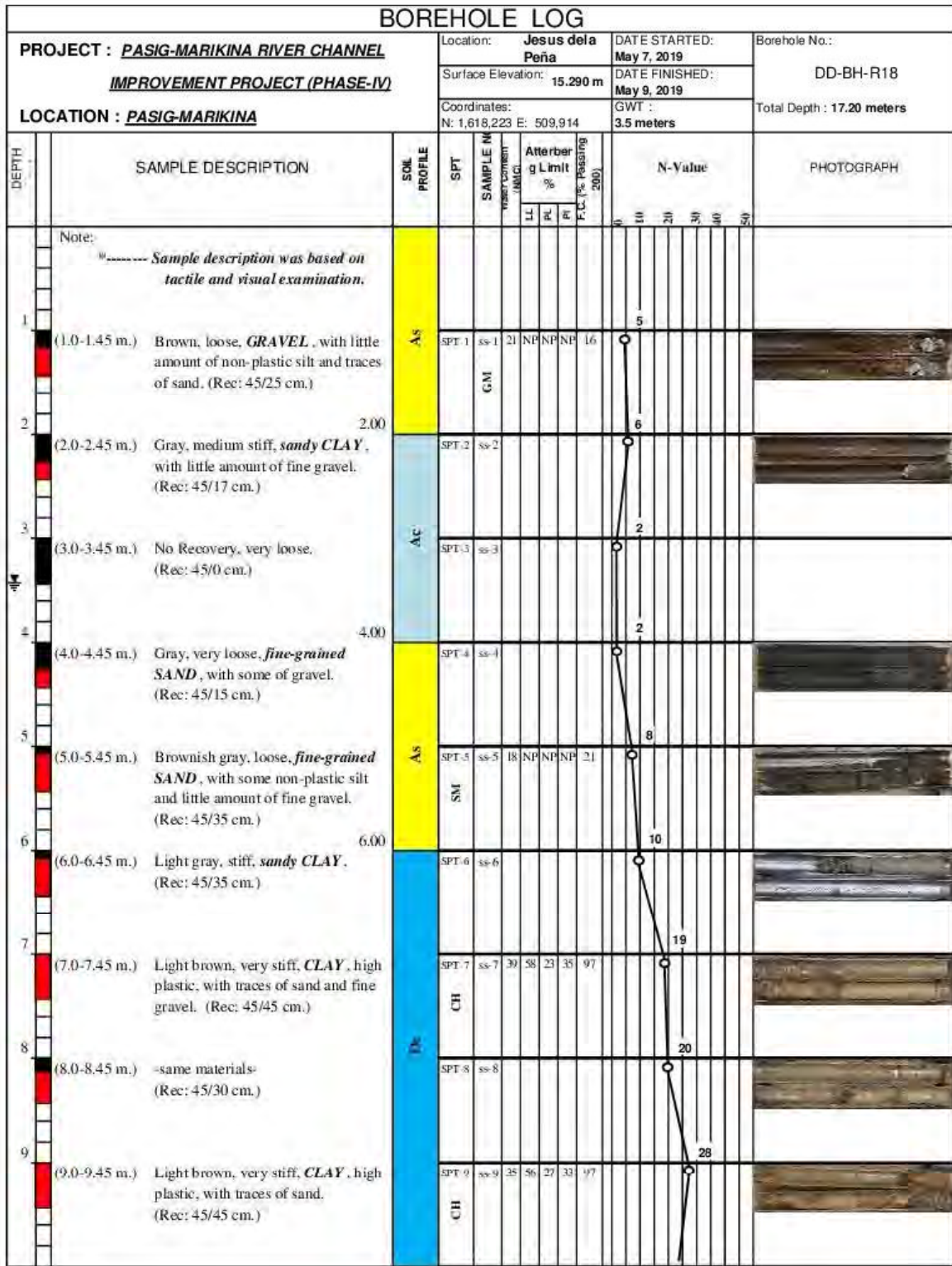


図5-3-1 (80/103) 柱状図 (本詳細設計実施分)

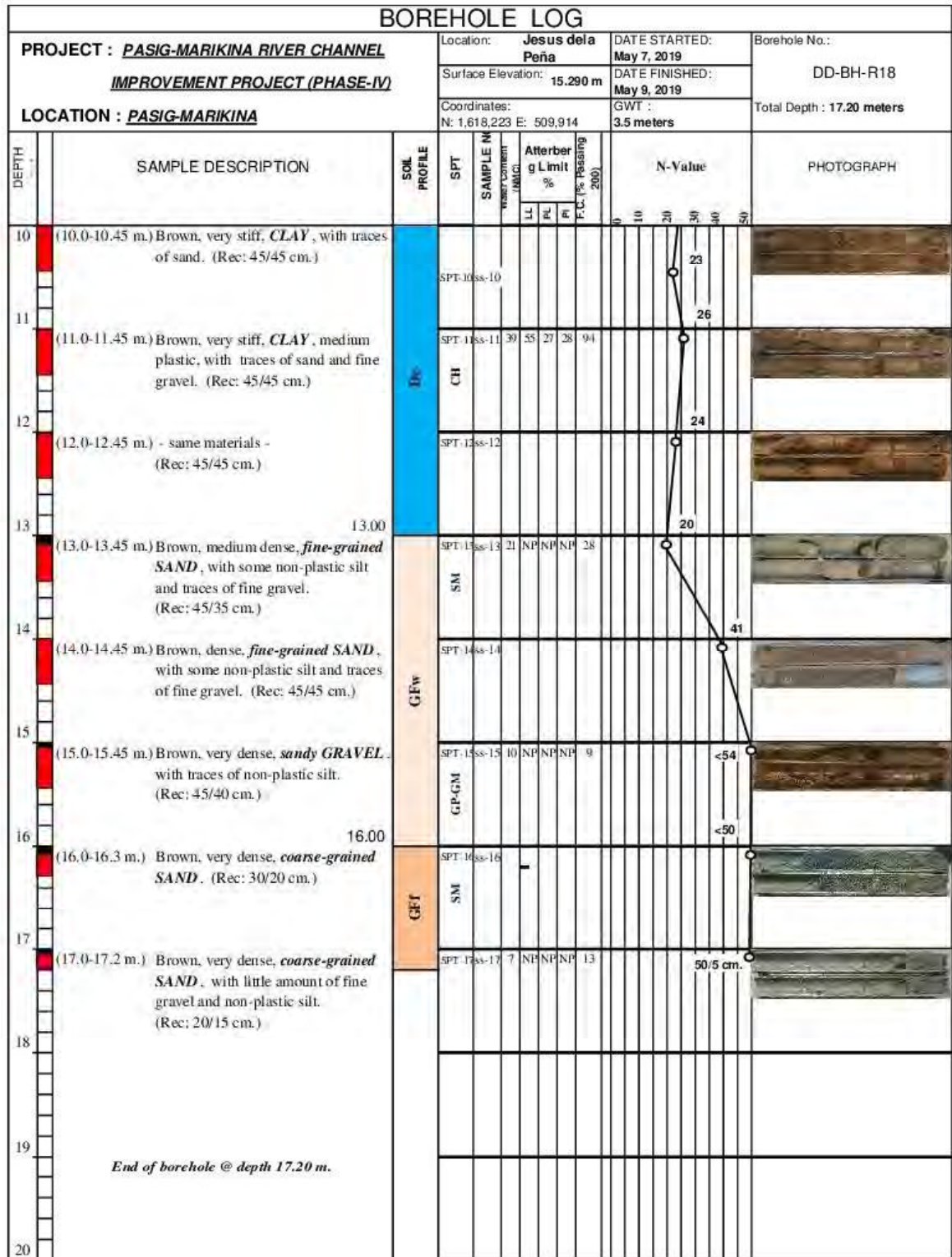


図5-3-1 (81/103) 柱状図 (本詳細設計実施分)

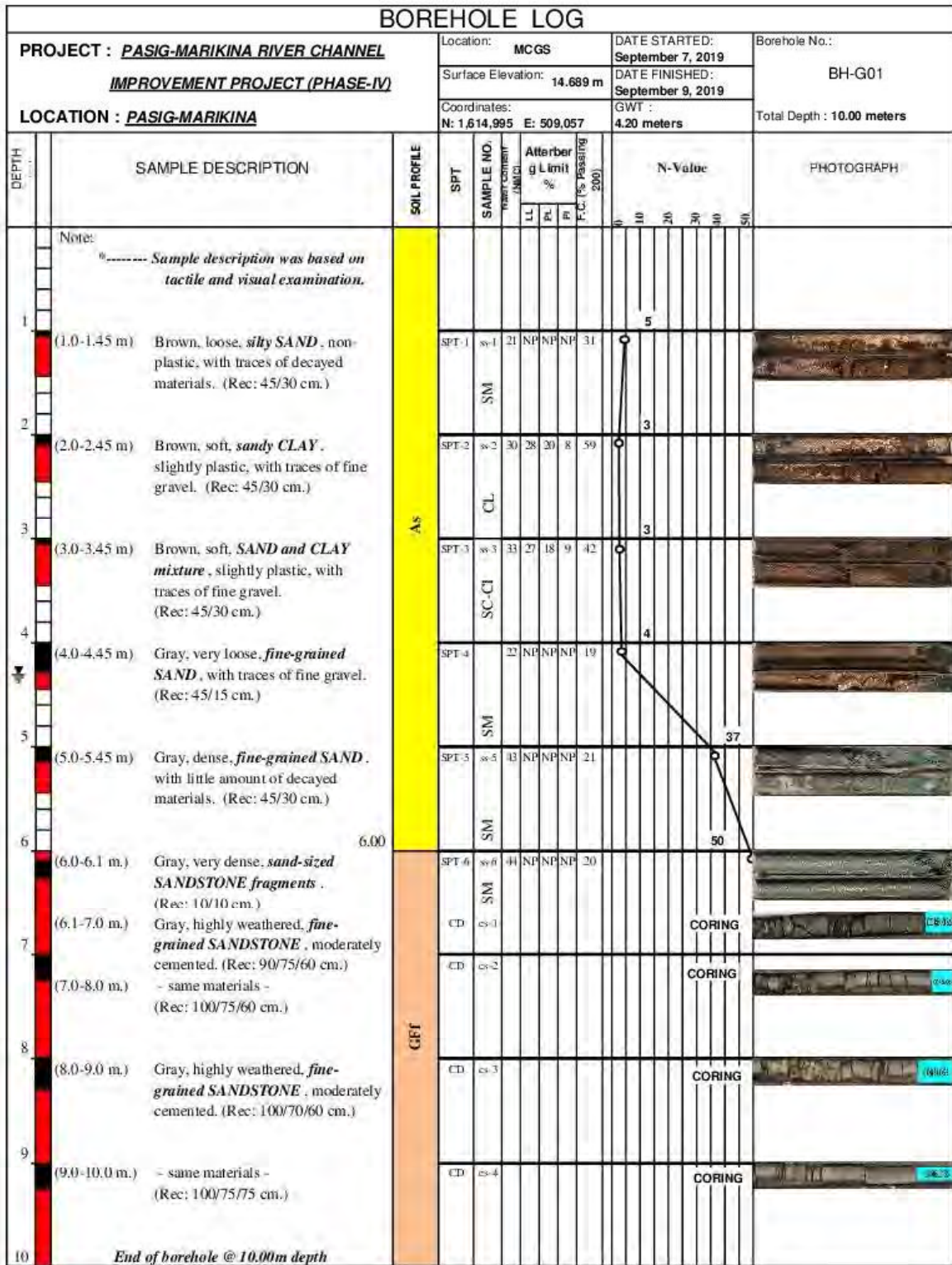


図5-3-1 (82/103) 柱状図 (本詳細設計実施分)





BOREHOLE LOG										
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u> <u>IMPROVEMENT PROJECT (PHASE-IV)</u>				Location: MCGS		DATE STARTED: September 17, 2019		Borehole No.:		
LOCATION : <u>PASIG-MARIKINA</u>				Surface Elevation: 10.709 m		DATE FINISHED: September 17, 2019		DD-BH-G02		
				Coordinates: N: 1,615,040 E: 509,076		GWT : Offshore		Total Depth : 6.0 meters		
DEPTH (m)	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE NO. <small>from cement / MUCI</small>	Atterberg g L limit %				N-Value	PHOTOGRAPH
					LL	PL	P	F.C. (% passing 200)		
	Note: *----- <i>Sample description was based on tactile and visual examination.</i>									
1	(1.0-1.45 m) No Recovery (Rec: 45/0 cm.)	As	SPT-1	ss-1					2	
2	(2.0-2.0 m) No Penetration (2.0-3.0 m) Gray, GRAVEL to highly weathered, fine-grained SANDSTONE , weakly cemented. (Rec: 100/30/0 cm.)	2.00 GPT	SPT-2	ss-2					50	
3	(3.0-4.0 m) Gray, highly wethered, fine-grained SANDSTONE , moderately cemented. (Rec: 100/80/50 cm.)			cs-1						CORING 
4	(4.0-5.0 m) - same materials - (Rec: 100/70/60 cm.)			cs-2						CORING 
5	(5.0-6.0 m) - same materials - (Rec: 100/100/90 cm.)			cs-3						CORING 
6				cs-1						CORING 
7	<i>End of borehole @ 6.00m depth</i>									
8										
9										

図5-3-1 (83/103) 柱状図 (本詳細設計実施分)

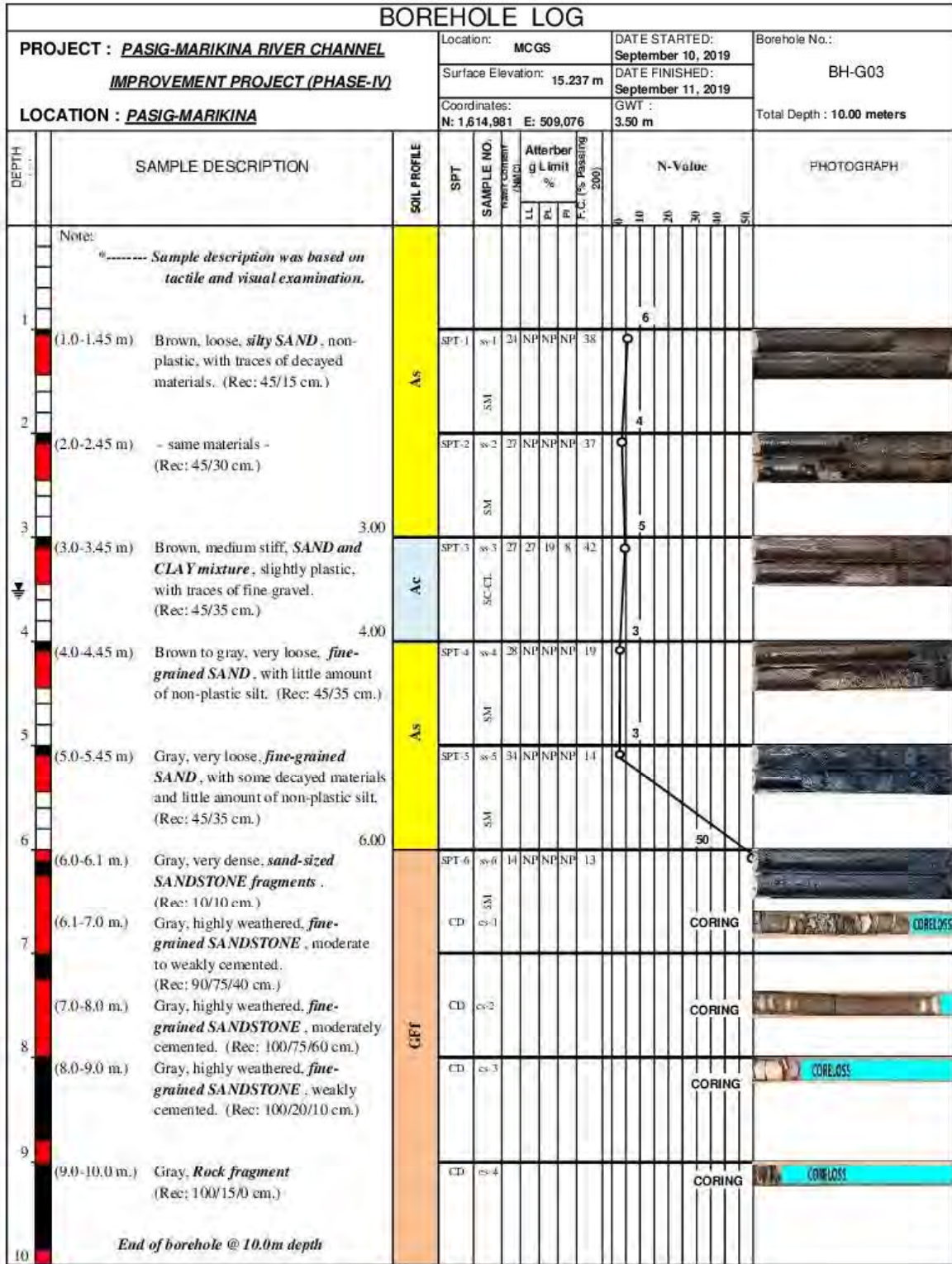


図5-3-1 (84/103) 柱状図 (本詳細設計実施分)

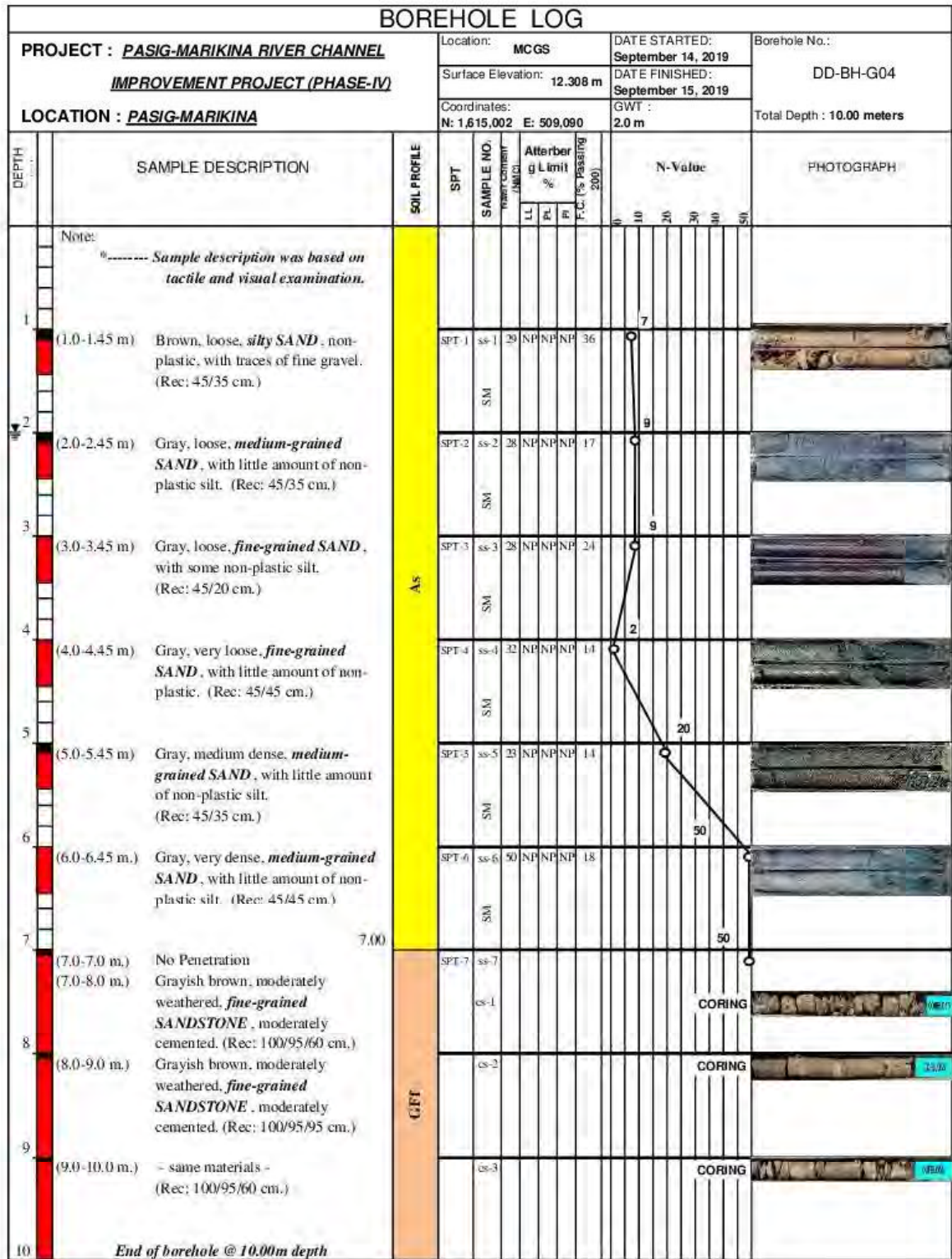


図5-3-1 (85/103) 柱状図 (本詳細設計実施分)






BOREHOLE LOG																	
PROJECT : PASIG-MARIKINA RIVER CHANNEL IMPROVEMENT PROJECT (PHASE-IV) LOCATION : PASIG-MARIKINA			Location: MCGS			DATE STARTED: September 18, 2019			Borehole No.: DD-BH-G05								
			Surface Elevation: 10.916 m			DATE FINISHED: September 18, 2019			Total Depth : 5.0 meters								
			Coordinates: N: 1,615,018 E: 509,104			GWT : Offshore											
DEPTH (m)	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE NO. TEST COMMENT (M/M/C)	Atterberg Limit % F.C. (% Passing 200)			N-Value					PHOTOGRAPH				
					LL	PL	PI	0	10	20	30	40		50			
0-1.0	Gray, highly weathered, GRAVEL to fine-grained SANDSTONE , moderate to weakly cemented. (Rec: 100/60/20 cm.)	GFT	cs-1												CORING		
1.0-2.0	Brown, moderately weathered, fine-grained SANDSTONE , moderately cemented. (Rec: 100/75/50 cm.)		cs-2													CORING	
2.0-3.0	- same materials - (Rec: 100/90/70 cm.)		cs-3													CORING	
3.0-4.0	Brown, highly weathered, fine-grained SANDSTONE , moderately cemented. (Rec: 100/75/75 cm.)		cs-4													CORING	
4.0-5.0	- same materials - (Rec: 100/75/75 cm.)		cs-5													CORING	
5																	
6	<i>End of borehole @ 5.00m depth</i>																
7																	
8																	
9																	

図5-3-1 (86/103) 柱状図 (本詳細設計実施分)

BOREHOLE LOG																		
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u>				Location: MCGS		DATE STARTED: September 18, 2019		Borehole No.: DD-BH-G06										
IMPROVEMENT PROJECT (PHASE-IV)				Surface Elevation: 12.661 m		DATE FINISHED: September 18, 2019												
LOCATION : <u>PASIG-MARIKINA</u>				Coordinates: N: 1,614,997 E: 509,126		GWT : Offshore		Total Depth : 5.00 meters										
DEPTH (m)	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE NO.	Liquid Content (%)			Atterberg Limit (%)	F.C. (% Passing 200)	N-Value					PHOTOGRAPH			
					LL	PL	P			10	15	20	25	30		35	40	
0-1.0	Brown, highly weathered, <i>fine-grained SANDSTONE</i> , moderately cemented. (Rec: 100/100/60 cm.)	GFT		cs-1												CORING		
1.0-2.0	Gray, moderately weathered, <i>fine-grained SANDSTONE</i> , moderately cemented. (Rec: 100/80/65 cm.)			cs-2													CORING	
2.0-3.0	- same materials - (Rec: 100/80/65 cm.)			cs-3													CORING	
3.0-4.0	- same materials - (Rec: 100/80/80 cm.)			cs-4													CORING	
4.0-5.0	- same materials - (Rec: 100/80/80 cm.)			cs-5													CORING	
5.00		5.00																
6	<i>End of borehole @ 5.00m depth</i>																	
7																		
8																		
9																		

図5-3-1 (87/103) 柱状図 (本詳細設計実施分)

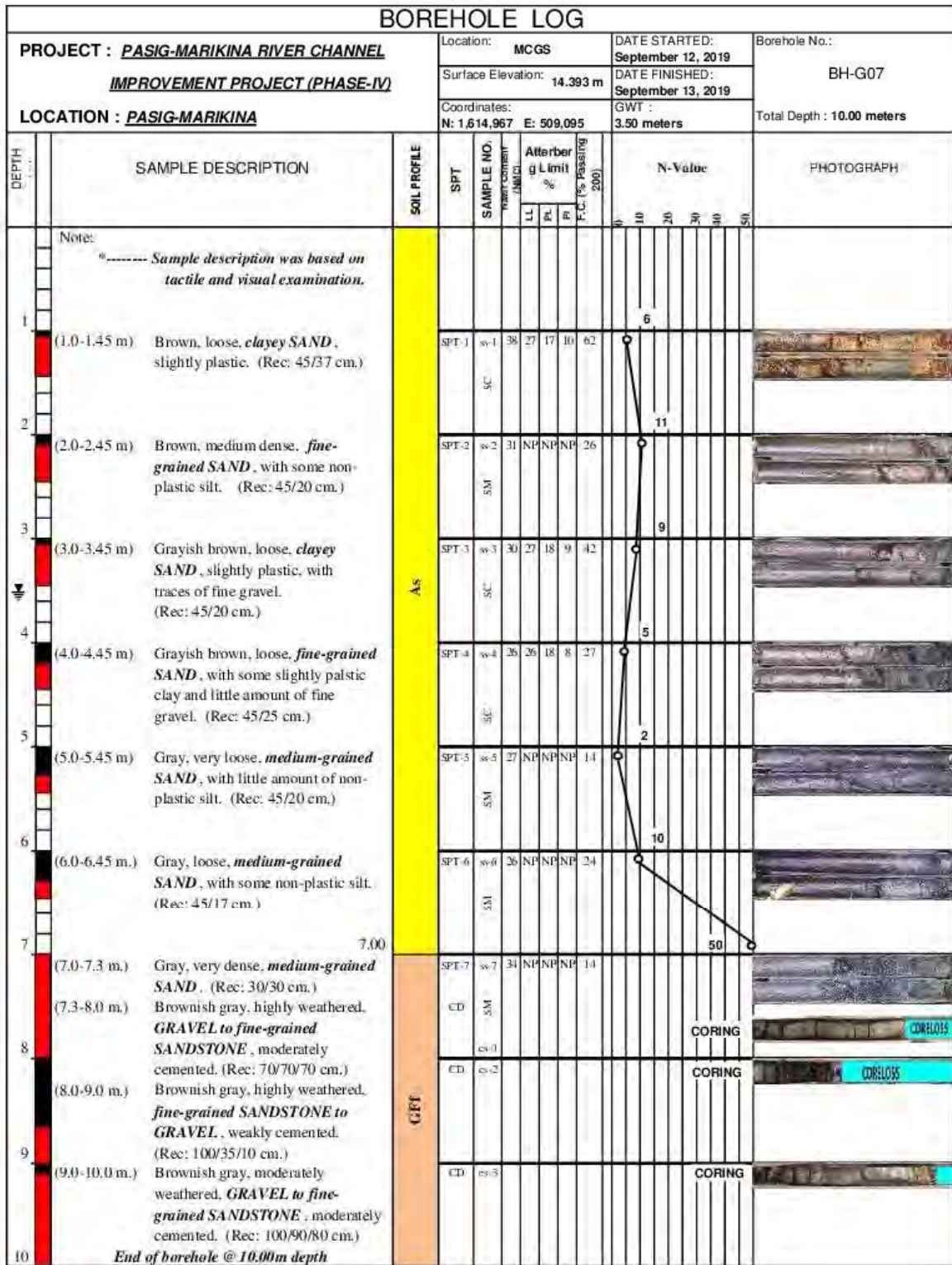


図5-3-1 (88/103) 柱状図 (本詳細設計実施分)

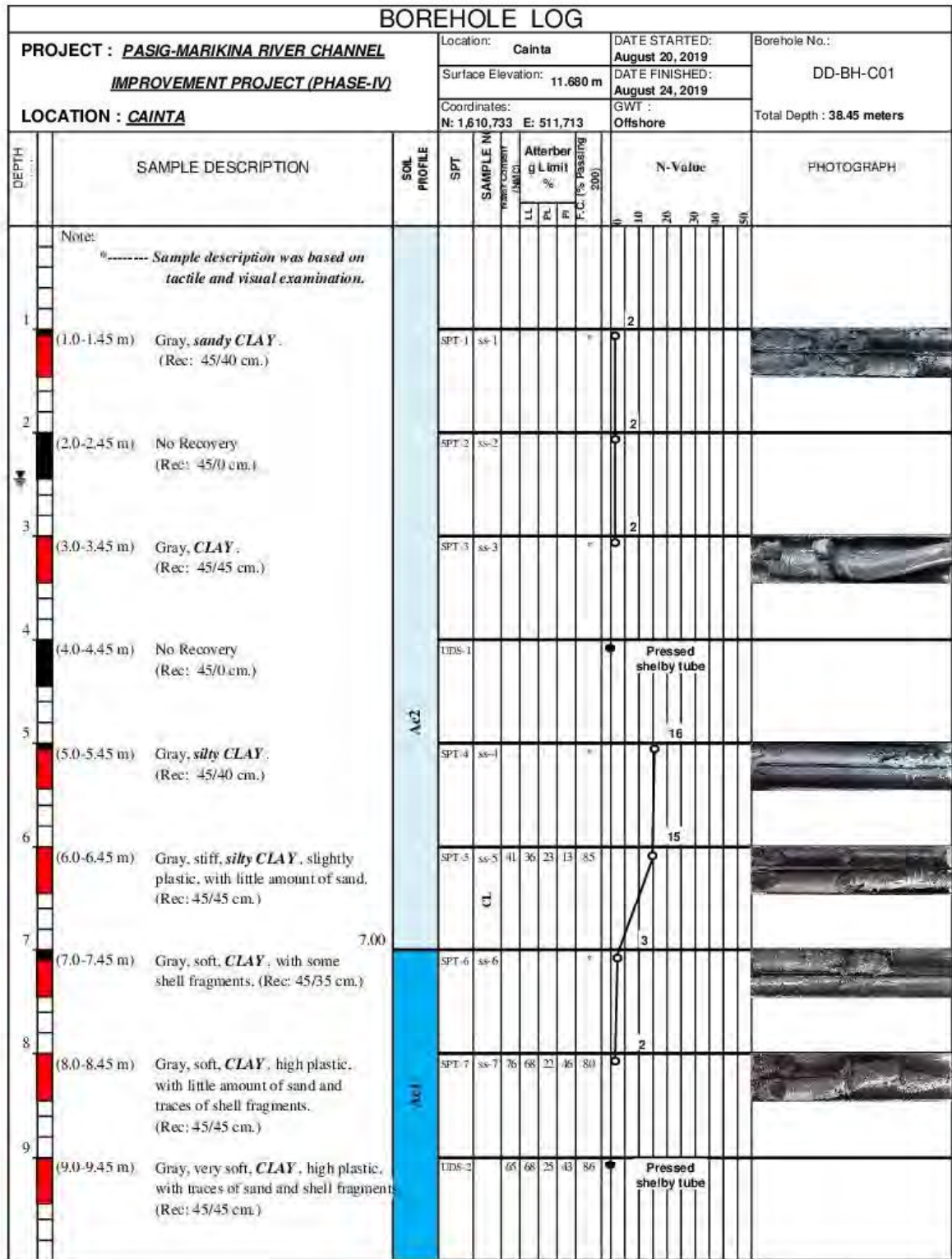


図5-3-1 (89/103) 柱状図 (本詳細設計実施分)

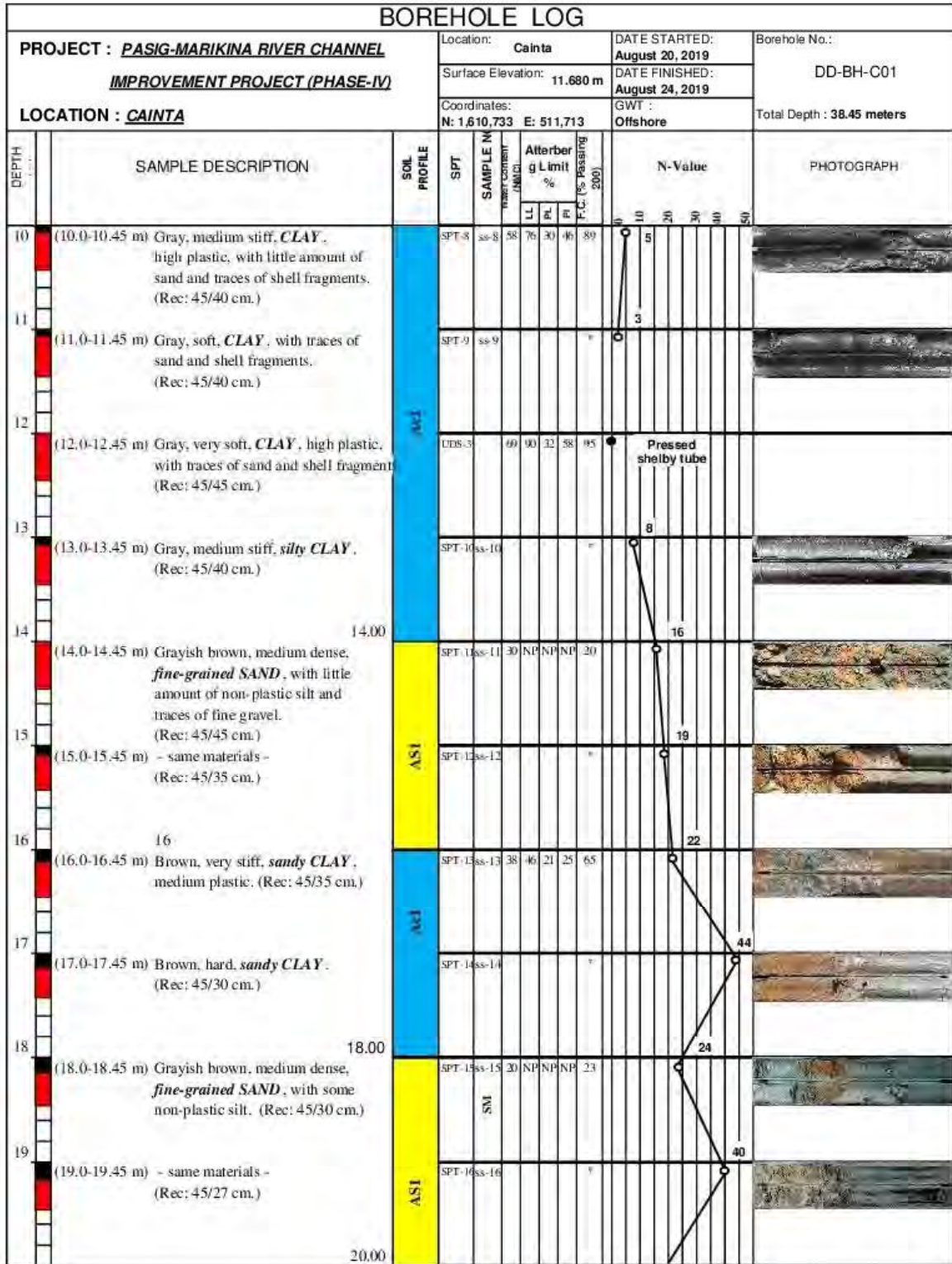


図5-3-1 (90/103) 柱状図 (本詳細設計実施分)

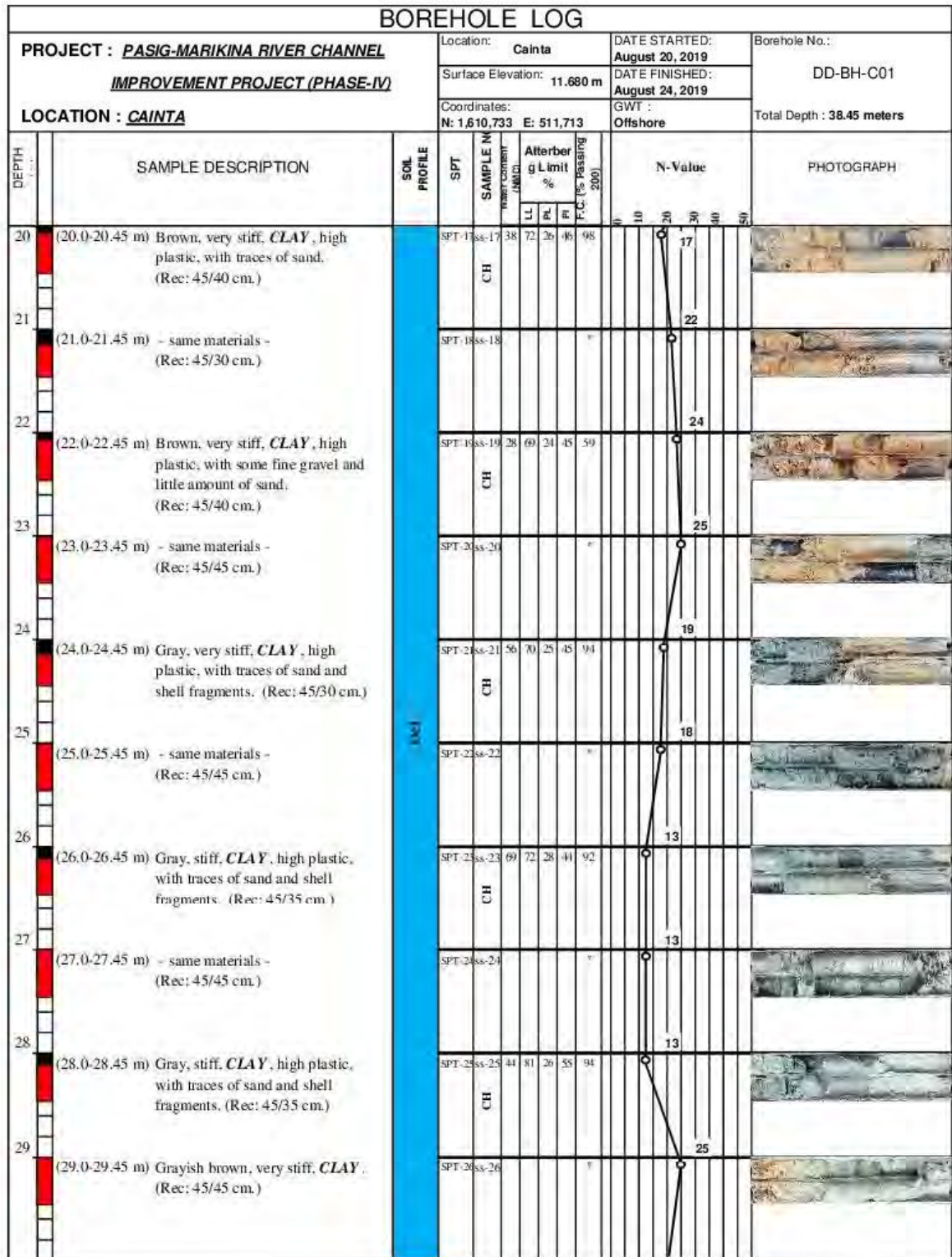


図5-3-1 (91/103) 柱状図 (本詳細設計実施分)

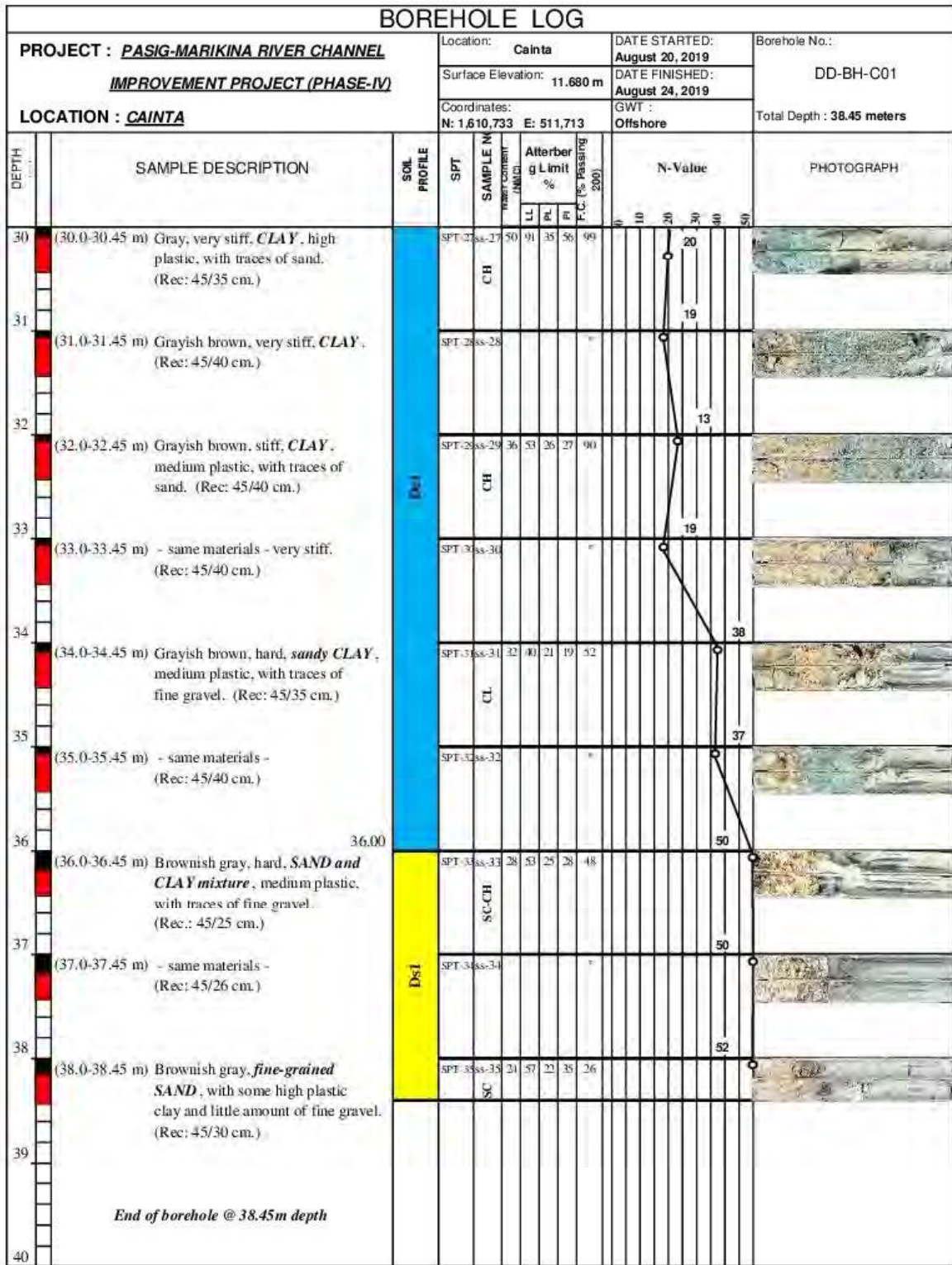


図5-3-1 (92/103) 柱状図 (本詳細設計実施分)

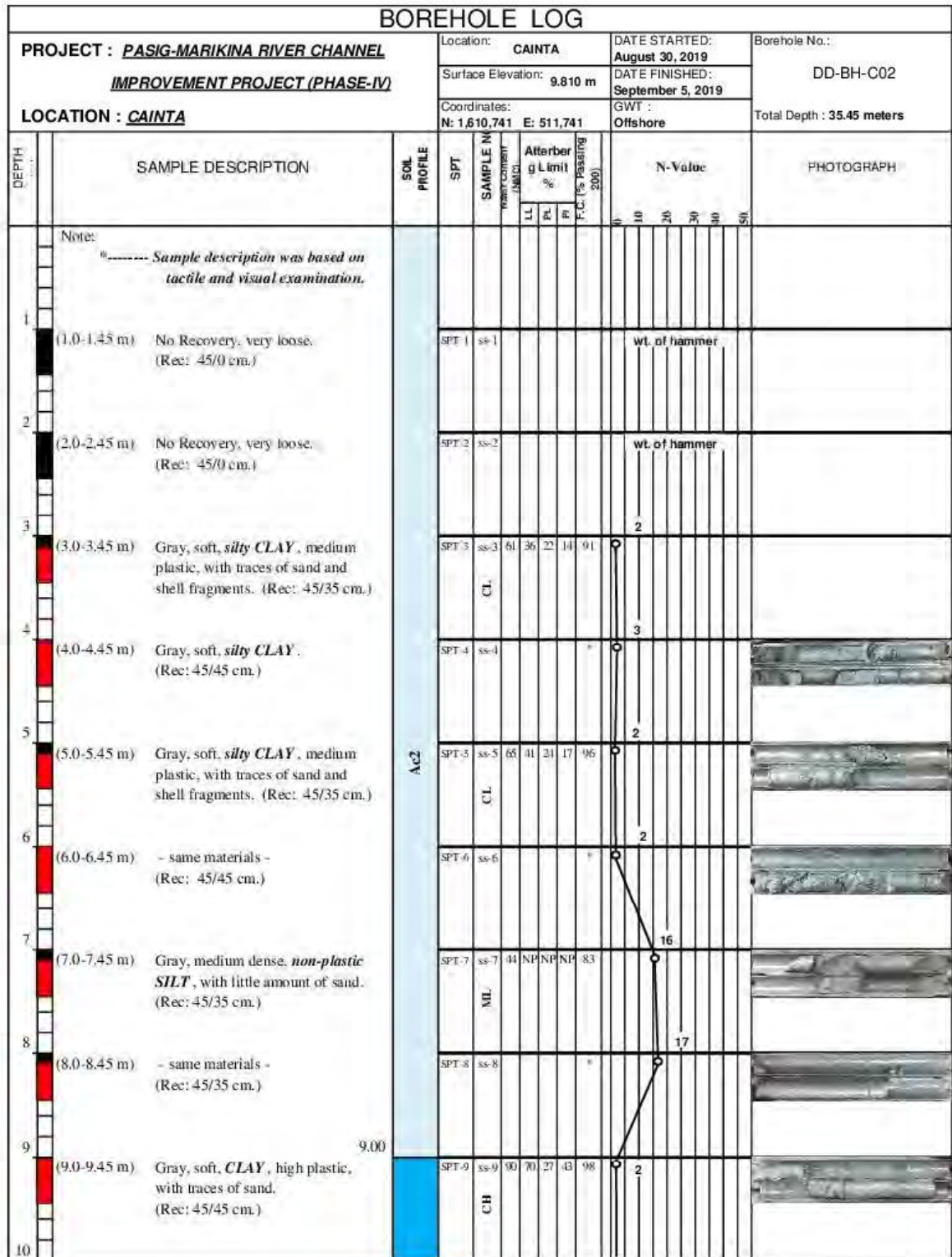


図5-3-1 (93/103) 柱状図 (本詳細設計実施分)

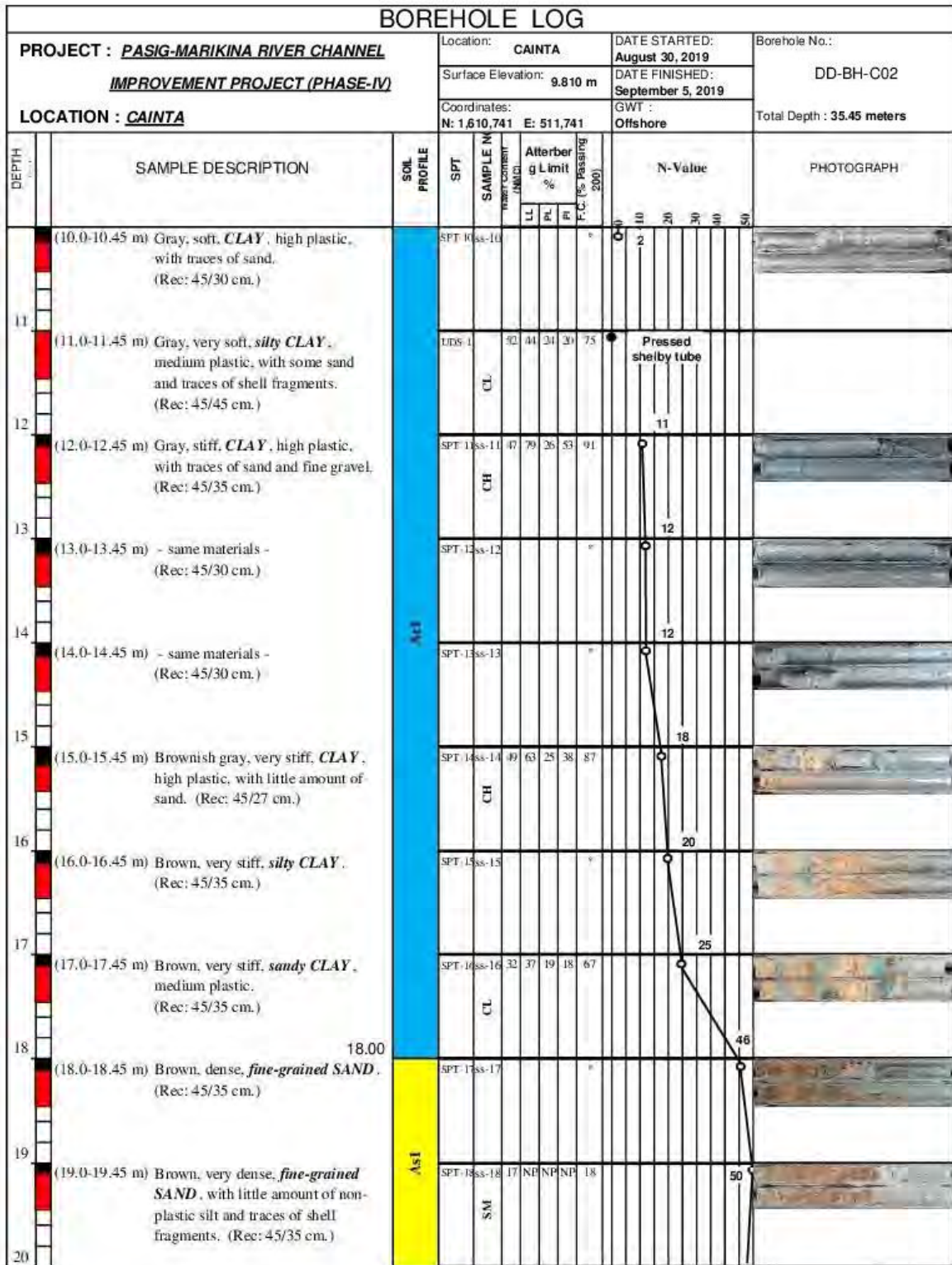


図5-3-1 (94/103) 柱状図 (本詳細設計実施分)

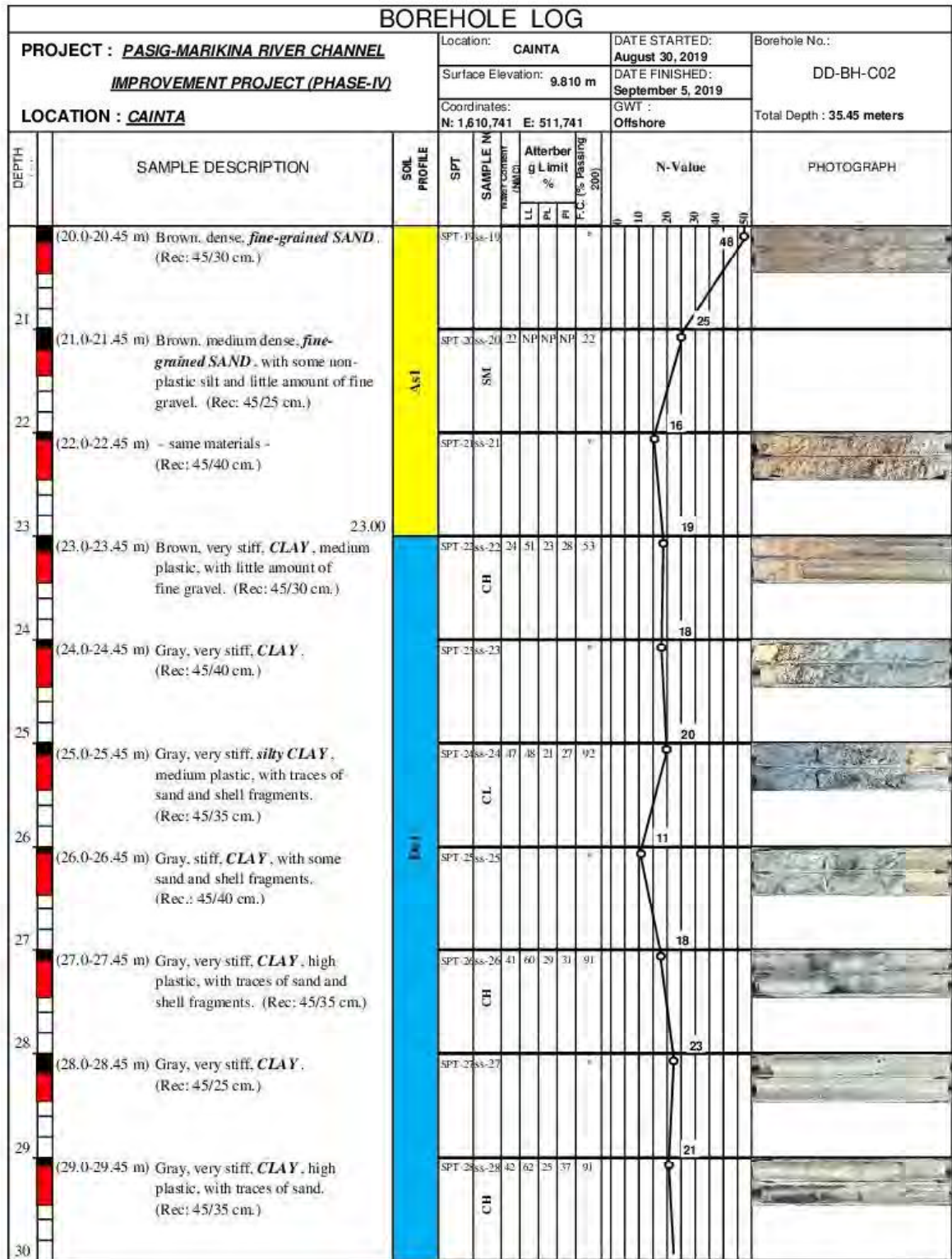


図5-3-1 (95/103) 柱状図 (本詳細設計実施分)

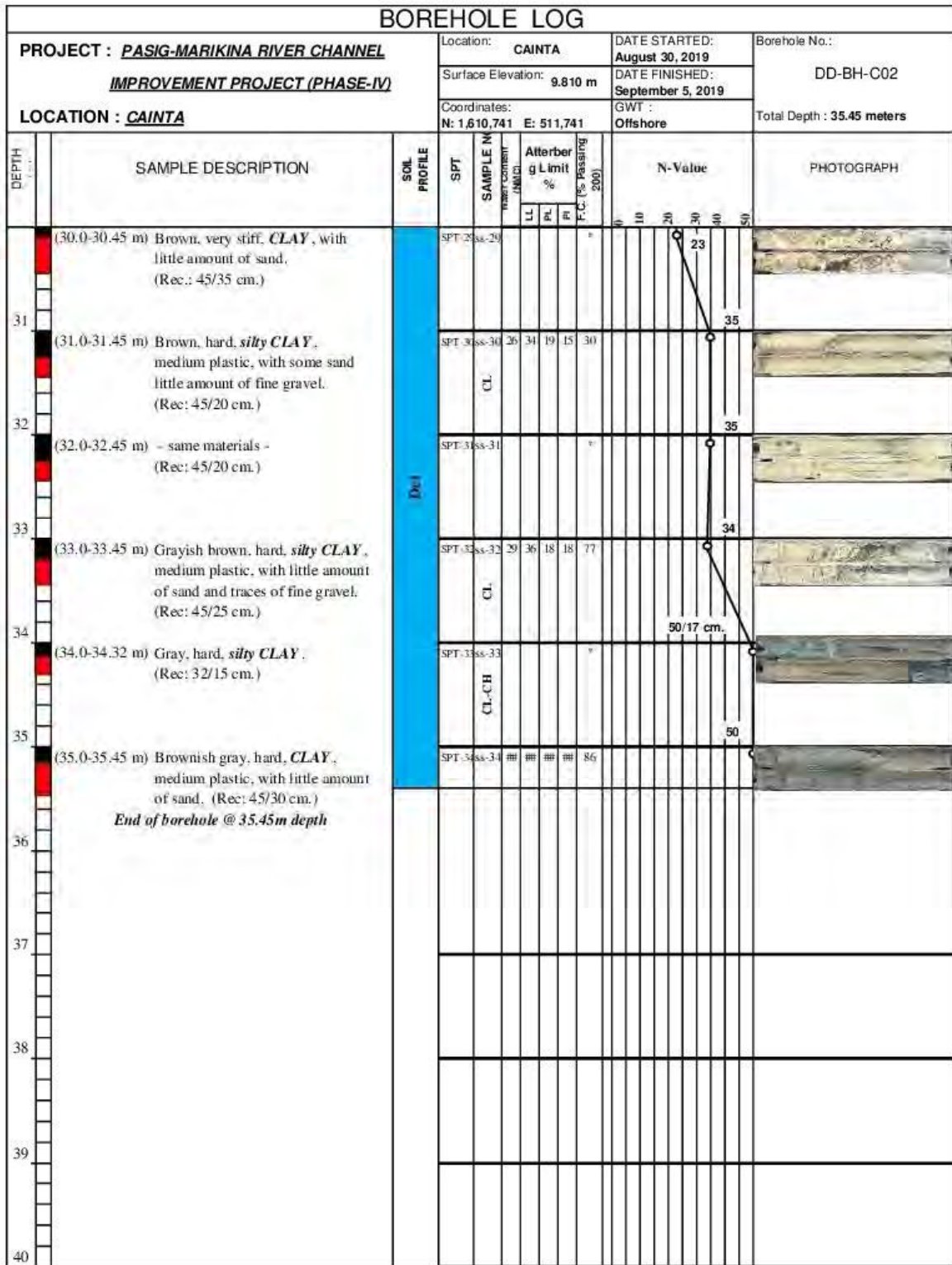


図5-3-1 (96/103) 柱状図 (本詳細設計実施分)

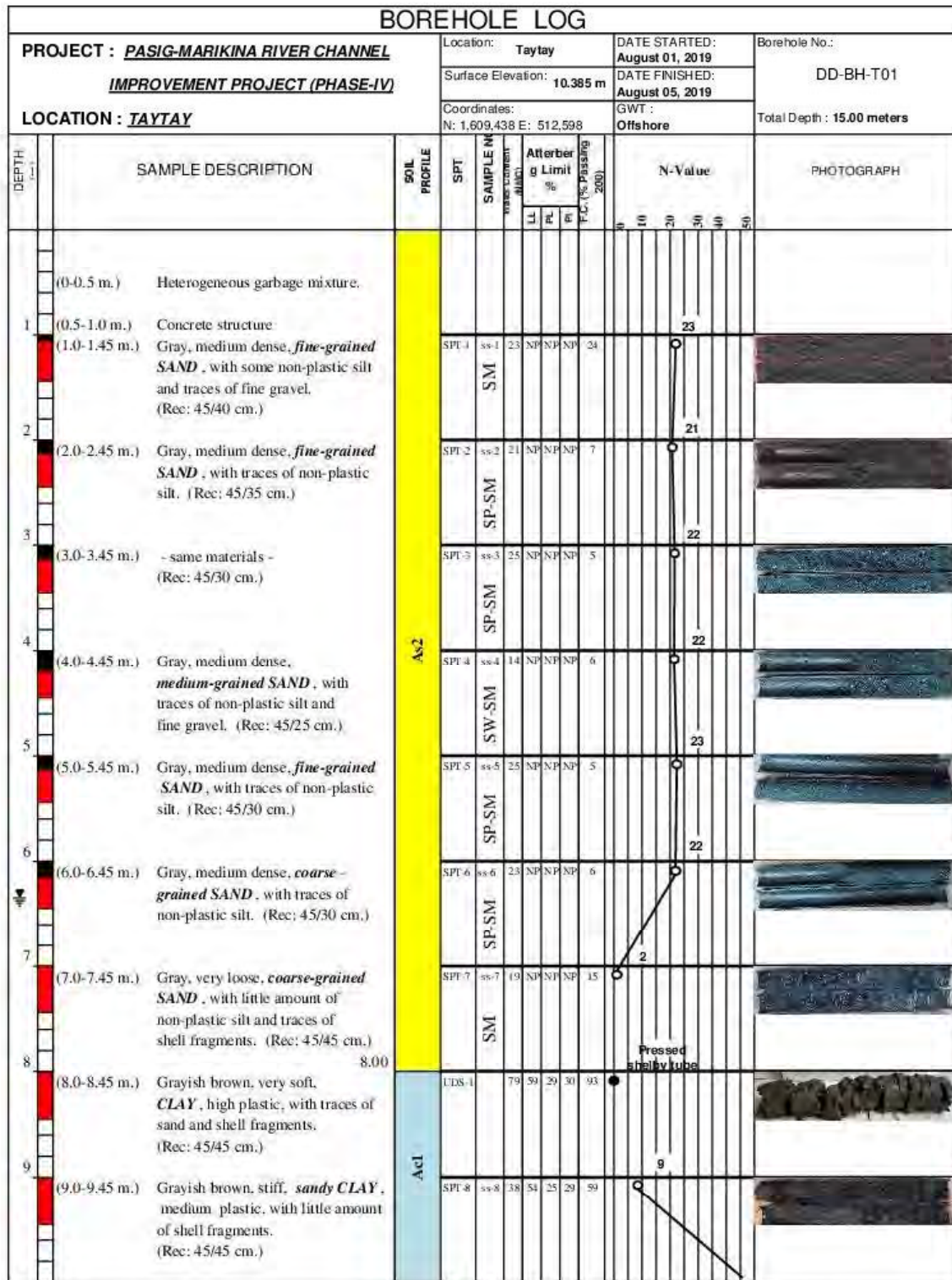


図5-3-1 (97/103) 柱状図 (本詳細設計実施分)







BOREHOLE LOG																		
PROJECT : PASIG-MARIKINA RIVER CHANNEL IMPROVEMENT PROJECT (PHASE-IV) LOCATION : TAYTAY				Location: Taytay		DATE STARTED: August 01, 2019		Borehole No.: DD-BH-T01										
				Surface Elevation: 10.385 m		DATE FINISHED: August 05, 2019		Total Depth : 15.00 meters										
				Coordinates: N: 1,609,438 E: 512,598		GWT : Offshore												
DEPTH (m)	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE NO	water content (%)	Liquid Limit (%)	Plastic Limit (%)	Shrinkage Limit (%)	T.C. (% Passing 200)	N-Value					PHOTOGRAPH			
										10	20	30	40	50				
10	(10.0-10.45 m.) Grayish brown, hard, CLAY , medium plastic, with some sand. (Rec: 45/40 cm.)	Acl	SPT 9	cs-9	51	52	24	28	79									
11	(10.45-11.0 m.) Gray, highly weathered fine-grained SANDSTONE , moderately cemented. (Rec: 55/45/20 cm.)		CD	cs-1														
	(11.0-12.0 m.) - same materials - (Rec: 100/100/100 cm.)		CD	cs-2														
12	(12.0-13.0 m.) Brownish gray, highly weathered SILTSTONE , weakly cemented. (Rec: 100/50/25 cm.)		CD	cs-3														
13	(13.0-14.0 m.) - same materials - (Rec: 100/55/30 cm.)		CD	cs-4														
14	(14.0-15.0 m.) Brownish gray, highly weathered, fine-grained SANDSTONE to SILTSTONE , moderate to weakly cemented. (Rec: 100/100/70 cm.)	CD	cs-5															
15																		
16	<i>End of borehole @ 15.0m depth</i>																	
17																		
18																		
19																		
20																		

図5-3-1 (98/103) 柱状図 (本詳細設計実施分)

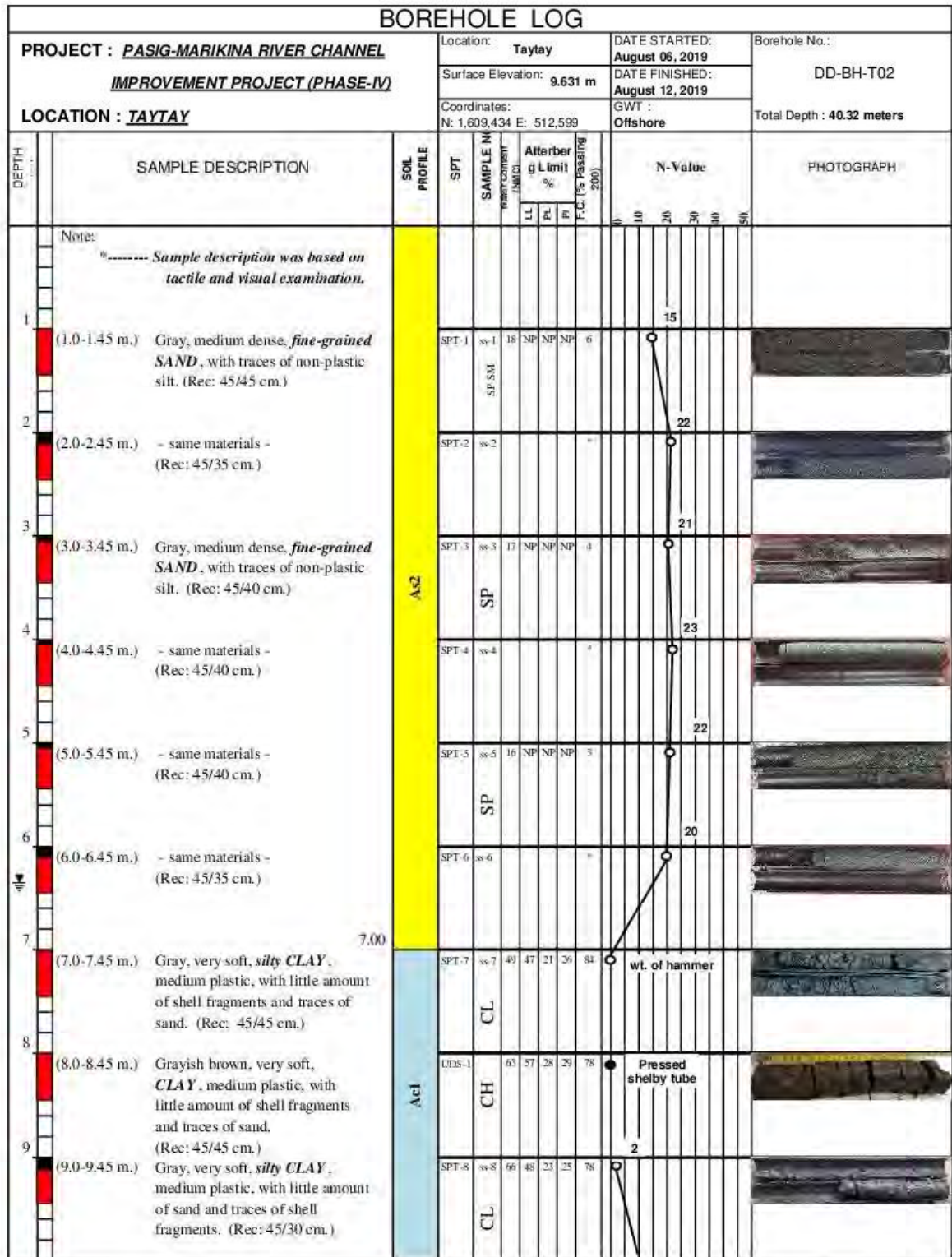


図5-3-1 (99/103) 柱状図 (本詳細設計実施分)

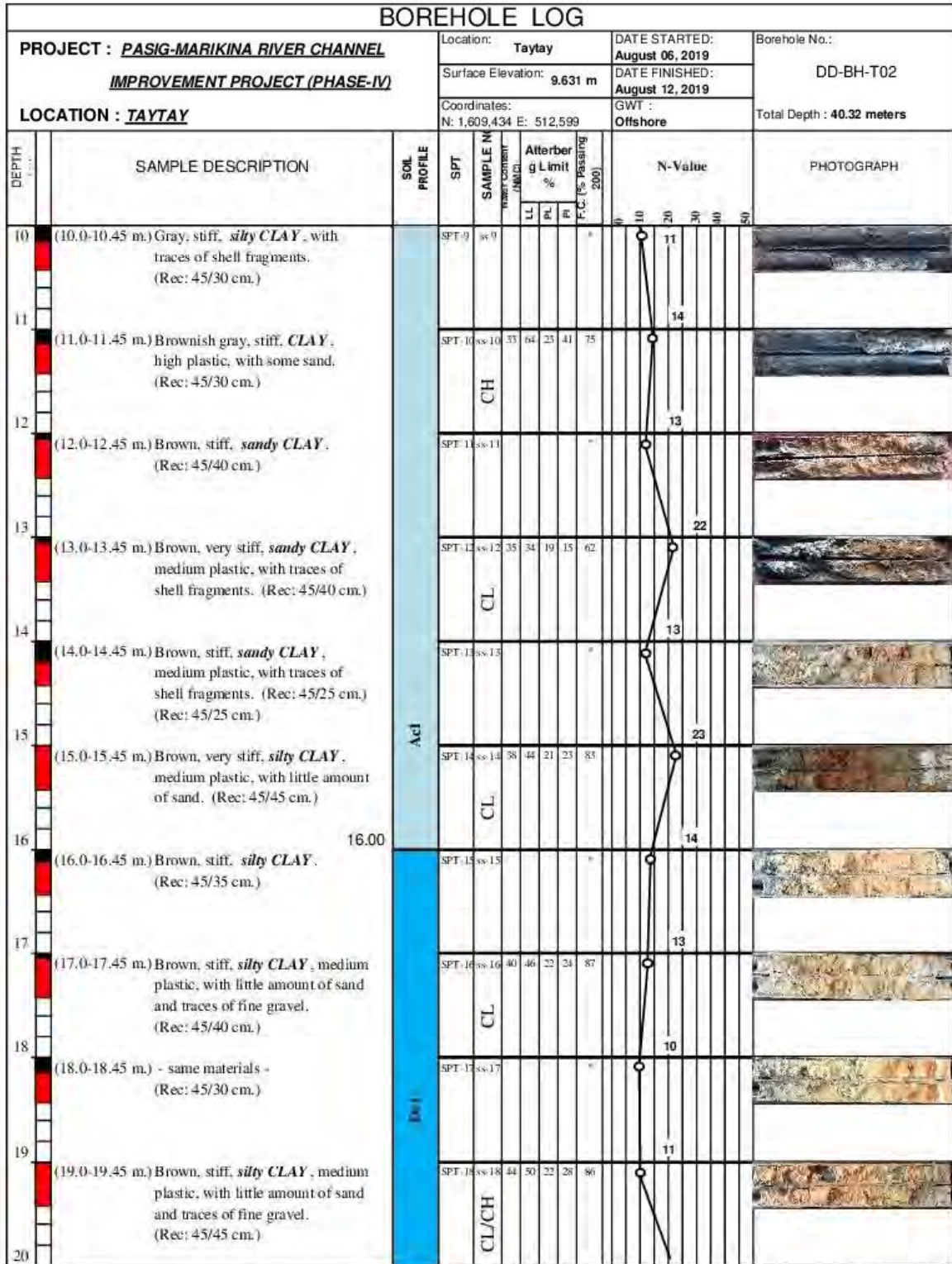


図5-3-1 (100/103) 柱状図 (本詳細設計実施分)

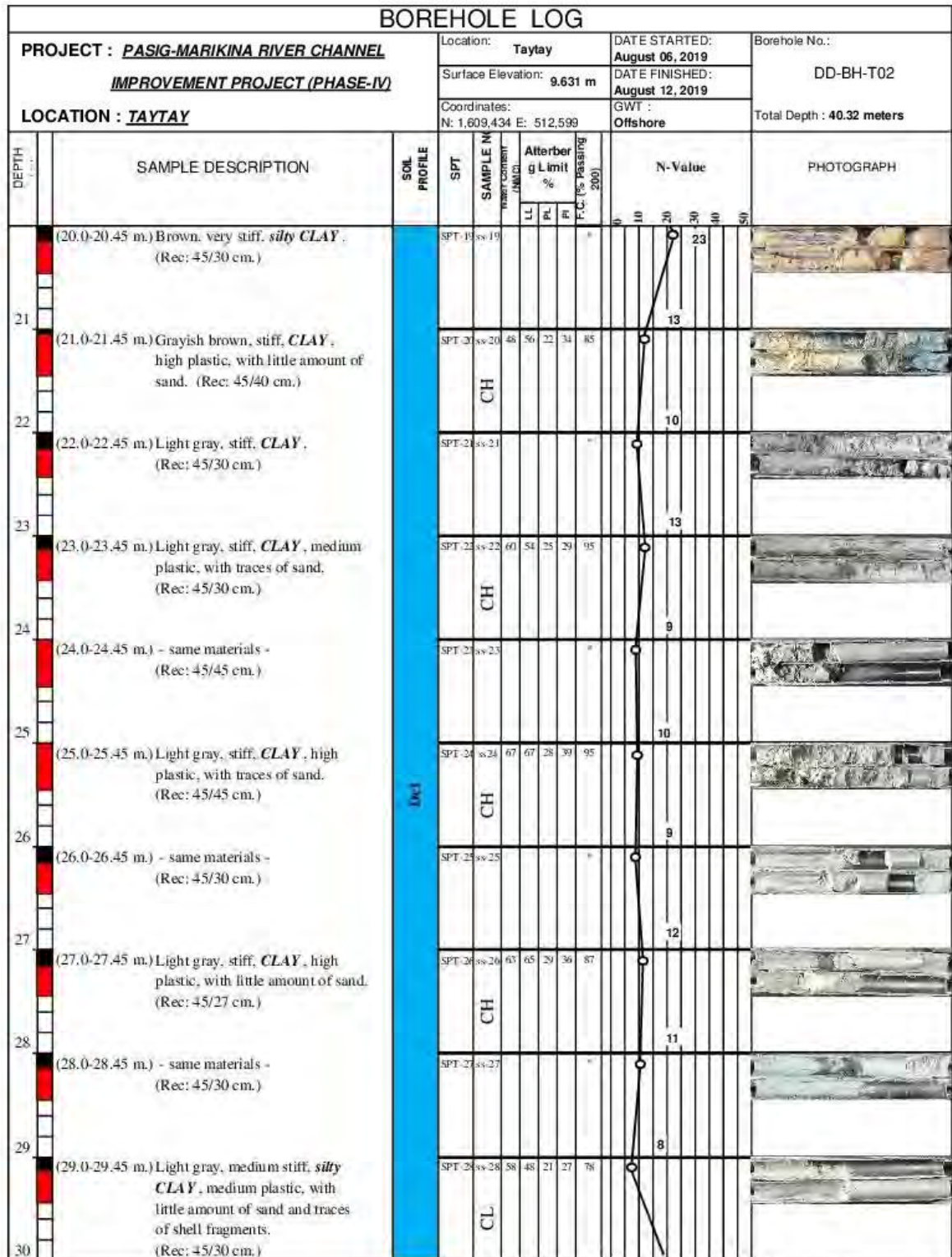


図5-3-1 (101/103) 柱状図 (本詳細設計実施分)

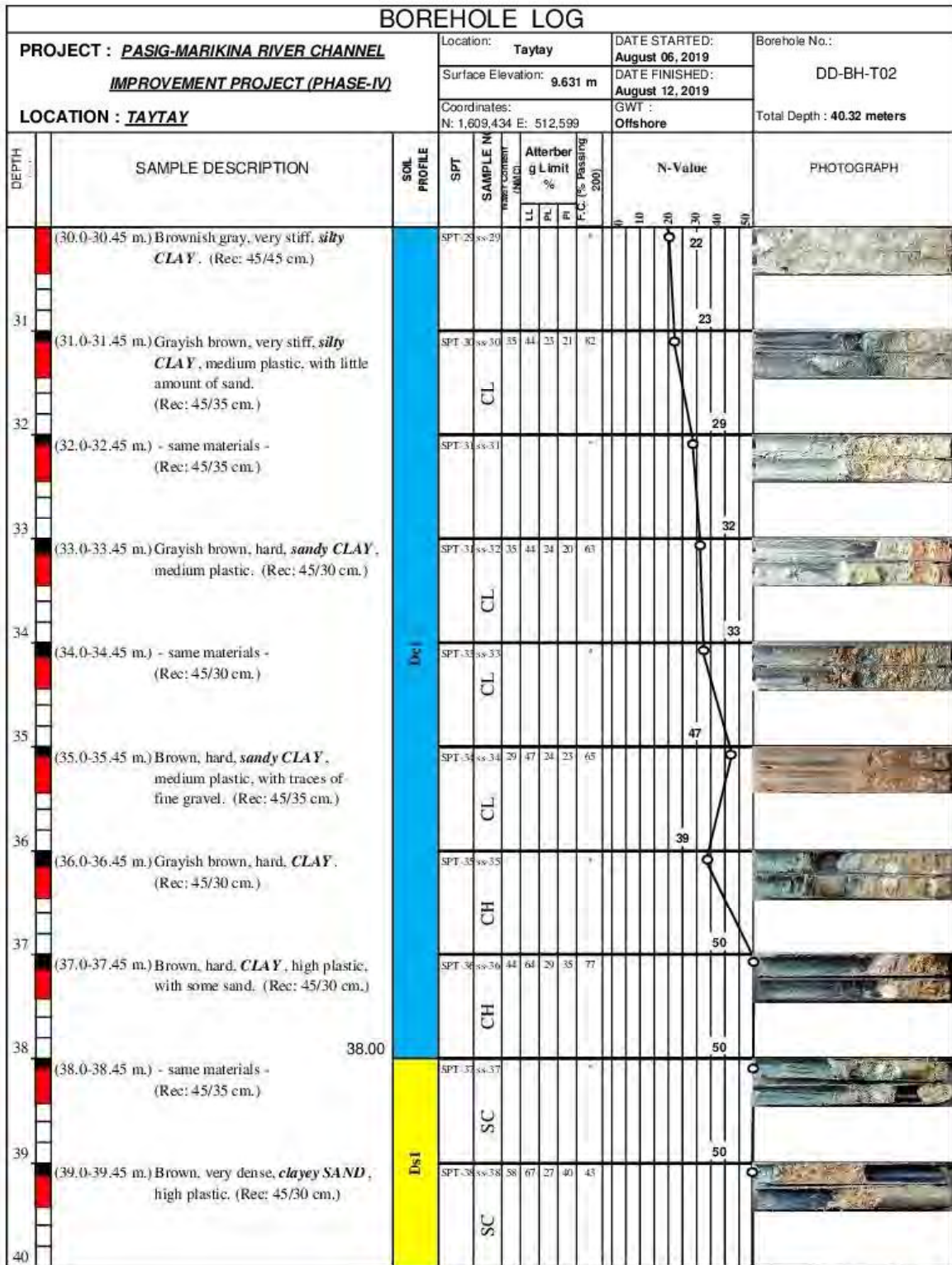


図5-3-1 (102/103) 柱状図 (本詳細設計実施分)


BOREHOLE LOG																
PROJECT : <u>PASIG-MARIKINA RIVER CHANNEL</u> <u>IMPROVEMENT PROJECT (PHASE-IV)</u>				Location: <u>Taytay</u>		DATE STARTED: <u>August 06, 2019</u>		Borehole No.: <u>DD-BH-T02</u>								
LOCATION : <u>TAYTAY</u>				Surface Elevation: <u>9.631 m</u>		DATE FINISHED: <u>August 12, 2019</u>		Total Depth : <u>40.32 meters</u>								
				Coordinates: N: 1,609,434 E: 512,599		GWT : <u>Offshore</u>										
DEPTH (m)	SAMPLE DESCRIPTION	SOIL PROFILE	SPT	SAMPLE No. (MUC)	Atterberg Limit %			N-Value					PHOTOGRAPH			
					LL	PL	PI	10	15	20	30	40		50		
40.0-40.32	(40.0-40.32 m.) Brown, hard, CLAY , with some sand. (Rec: 32/27 cm.)		SPT-93-ss-39													
41	<i>End of borehole @ 40.32m depth</i>															
42																
43																
44																
45																
46																
47																
48																
49																
50																

図5-3-1 (103/103) 柱状図 (本詳細設計実施分)

Boring log with Core box, SPT sample and SPT graph

In order to clarity, the SPT soil
sample photo is processed

Legend

Geological Age	Symbol/colour	MARIKINA/MCGS	Symbol/colour	CAINTA/TAYTAY	
Quaternary	Holocene (Alluvium)	Alluvial sand、	As2	Alluvial sand、TAYTAY表層に分布	
			As1	Alluvial sand、CAINTAで確認	
	Ac	Alluvial clay	Ac2	Alluvial clay、CAINTA表層に分布	
			Ac1	Alluvial clay、CAINTA、TAYTAYに分布	
	Pleistocene (Diluvium)	Ds	Diluvial sand	Ds1	Diluvial sand、CAINTA、TAYTAYで確認
				De1	Diluvial clay、CAINTA、TAYTAYで確認
		Dc	Diluvial clay		
		GfW	Weathered Guadalupe Formation (Lapilli tuff, Sand stone)		
Gff	Fresh Guadalupe Formation (Lapilli tuff, Sand stone)				

図5-3-2 (1/17) 柱状図 (本詳細設計実施分コア写真入り)

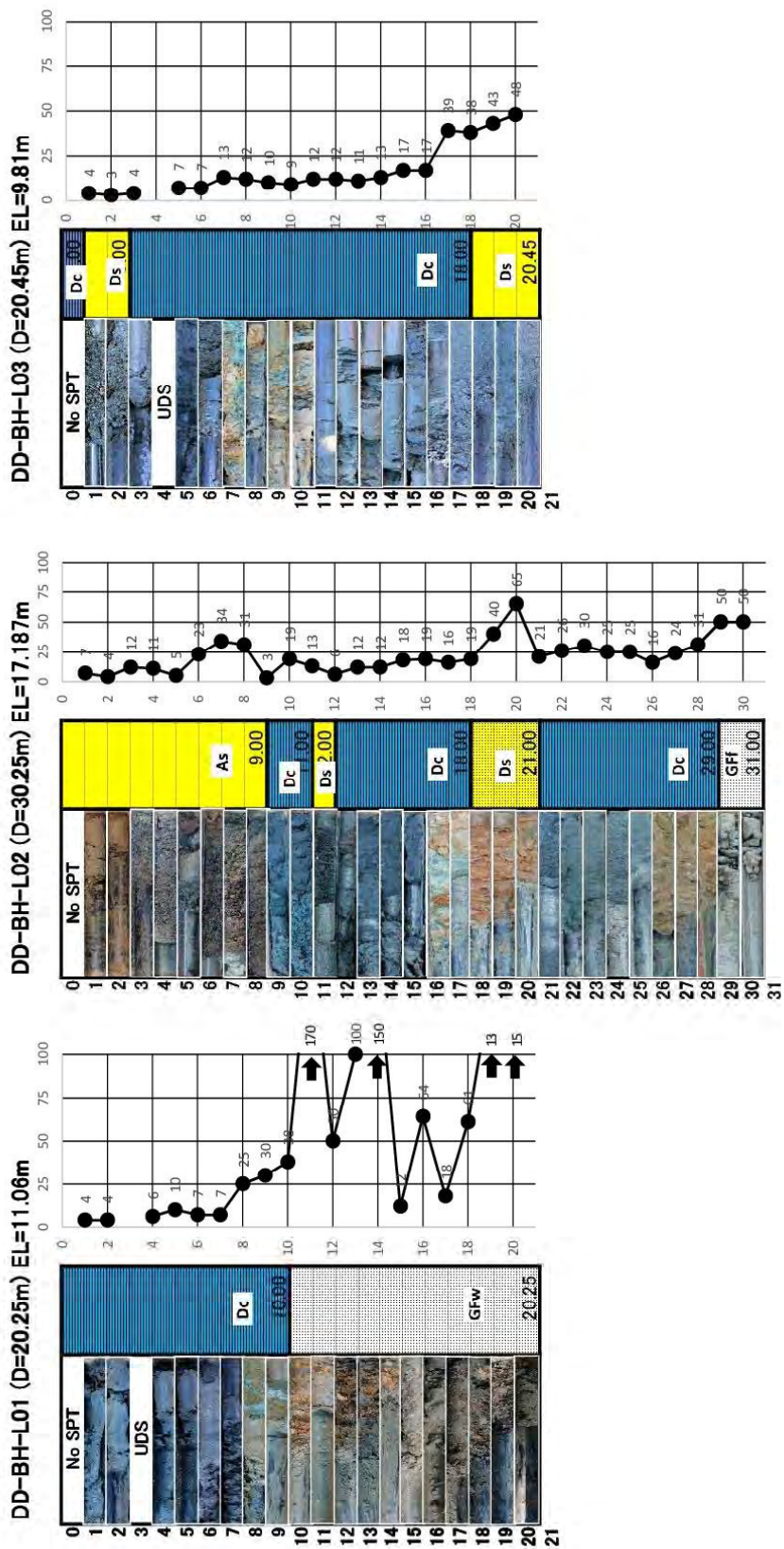


図5-3-2 (2/17) 柱状図 (本詳細設計実施分コア写真入り)

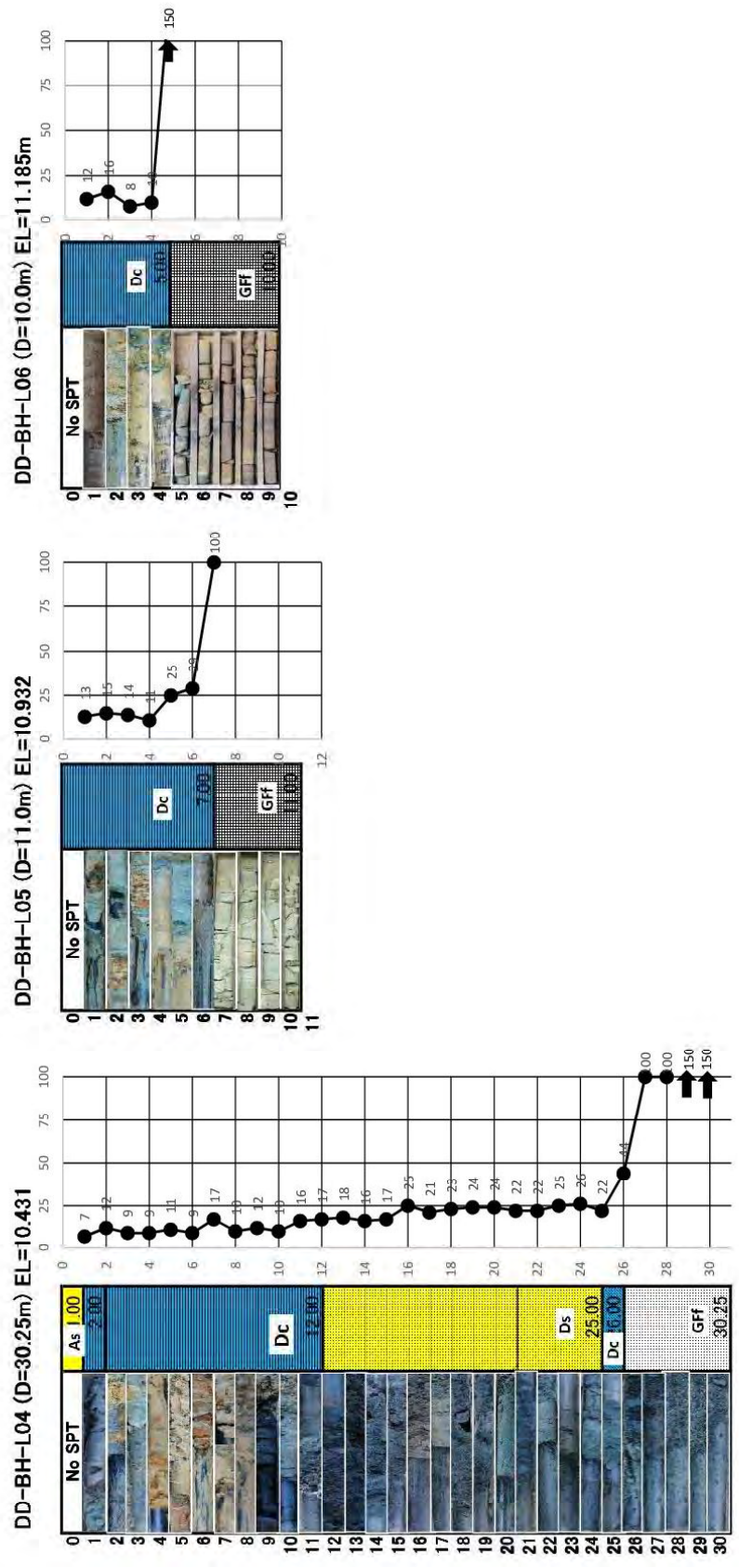


図5-3-2 (3/17) 柱状図 (本詳細設計実施分コア写真入り)

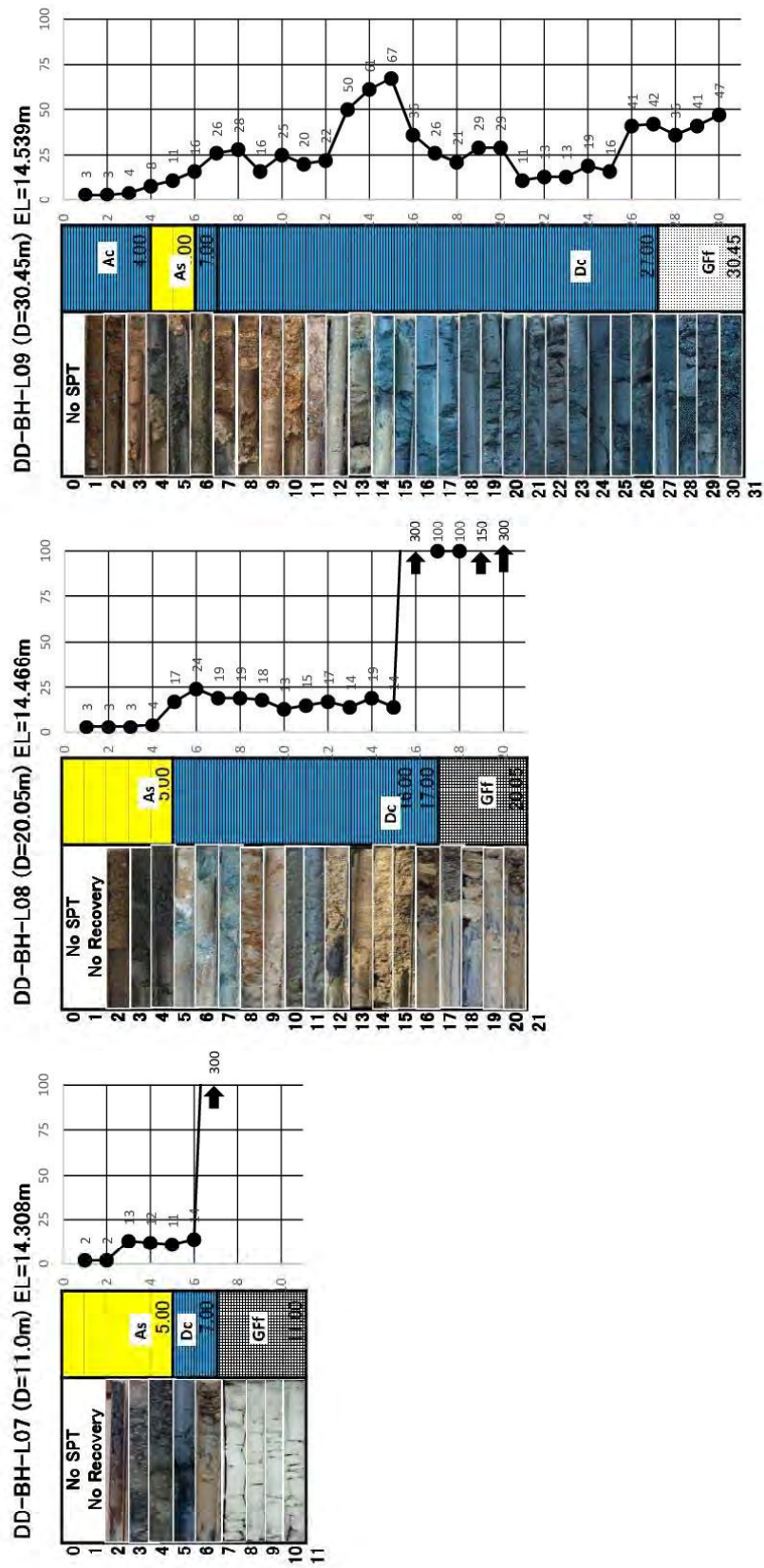


図5-3-2 (4/17) 柱状図 (本詳細設計実施分コア写真入り)

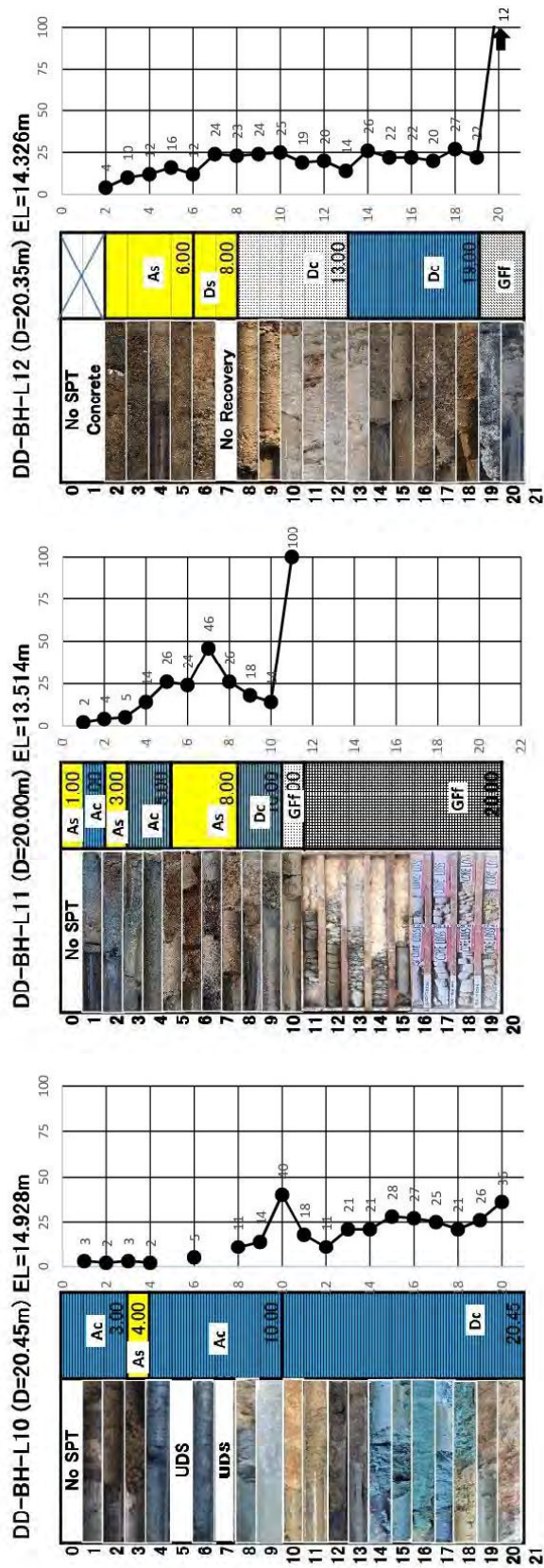


図5-3-2 (5/17) 柱状図 (本詳細設計実施分コア写真入り)

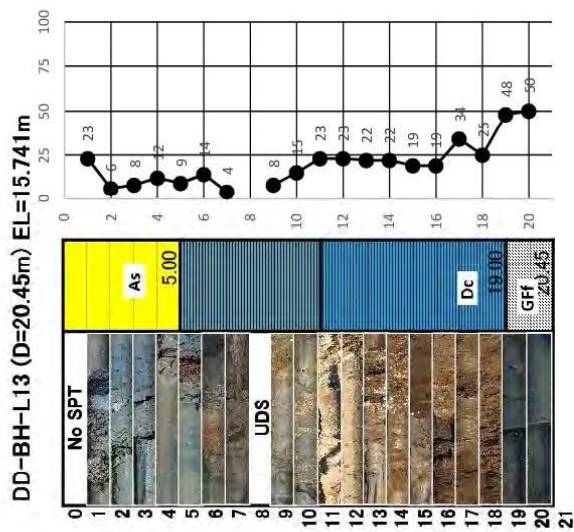
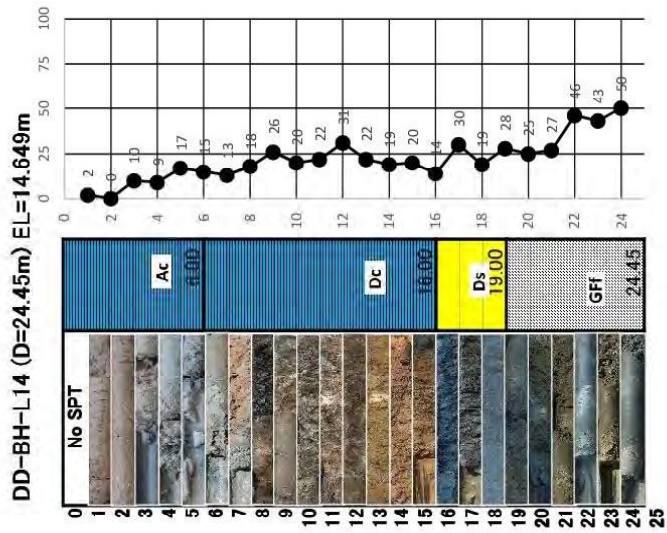


図5-3-2 (6/17) 柱状図 (本詳細設計実施分コア写真入り)

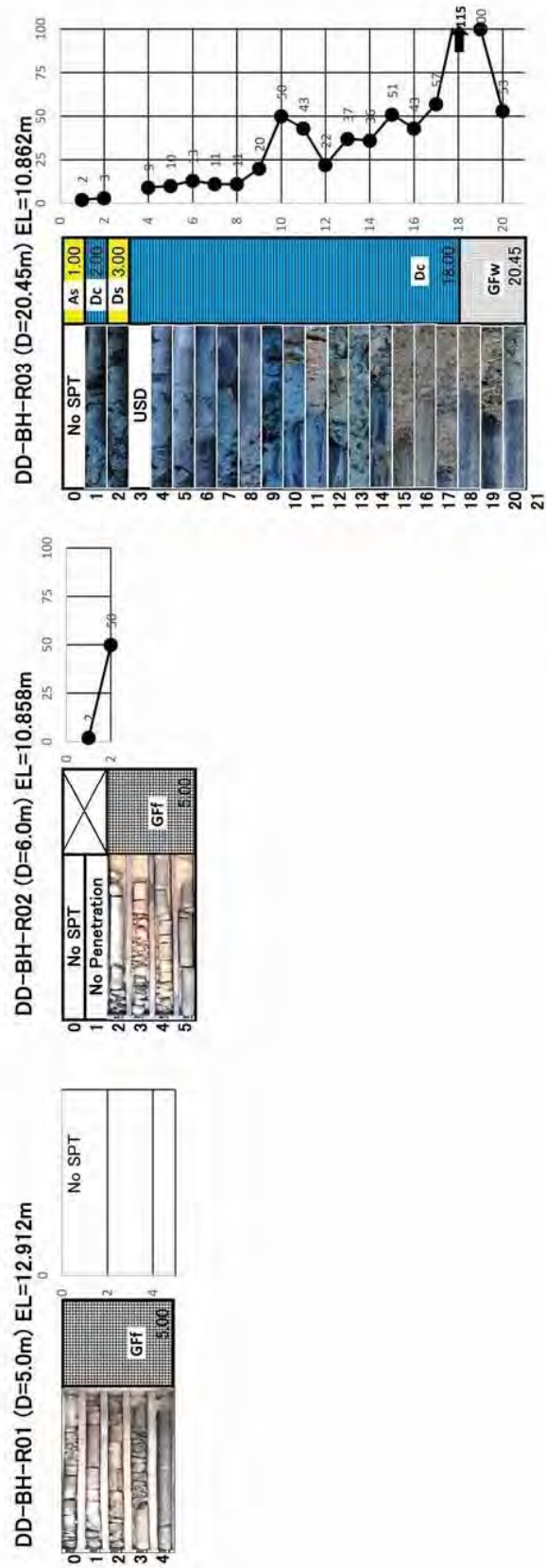


図5-3-2 (7/17) 柱状図 (本詳細設計実施分コア写真入り)

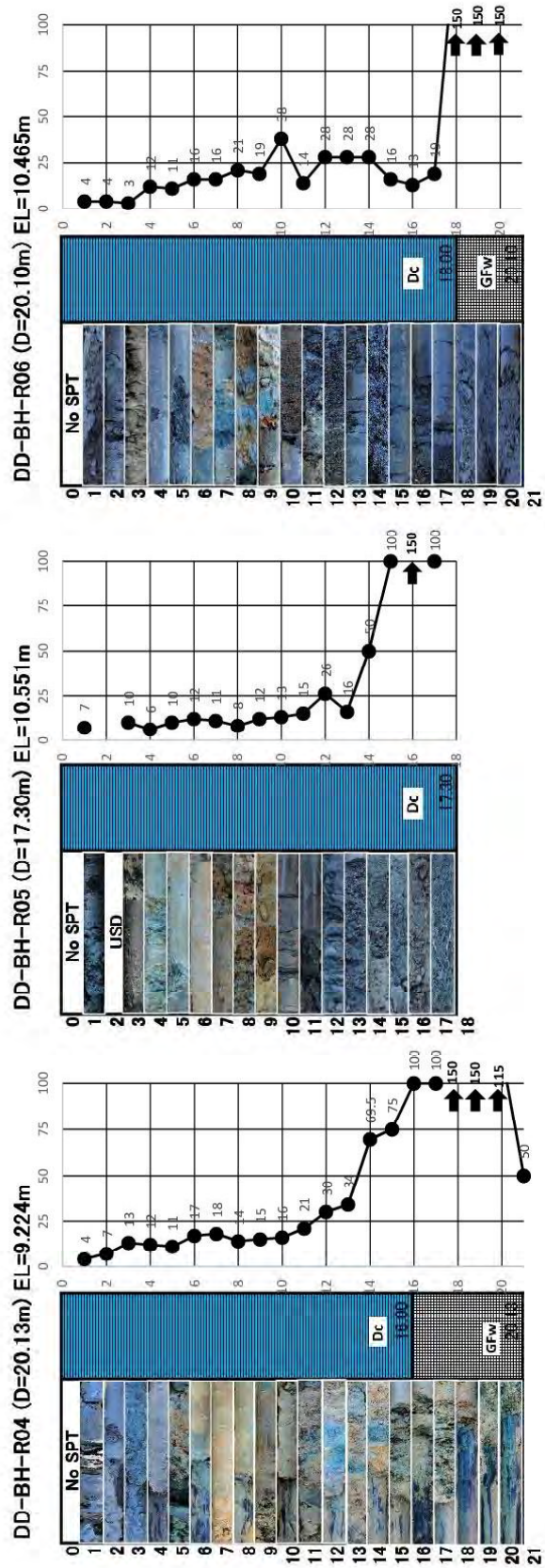


図5-3-2 (8/17) 柱状図 (本詳細設計実施分コア写真入り)

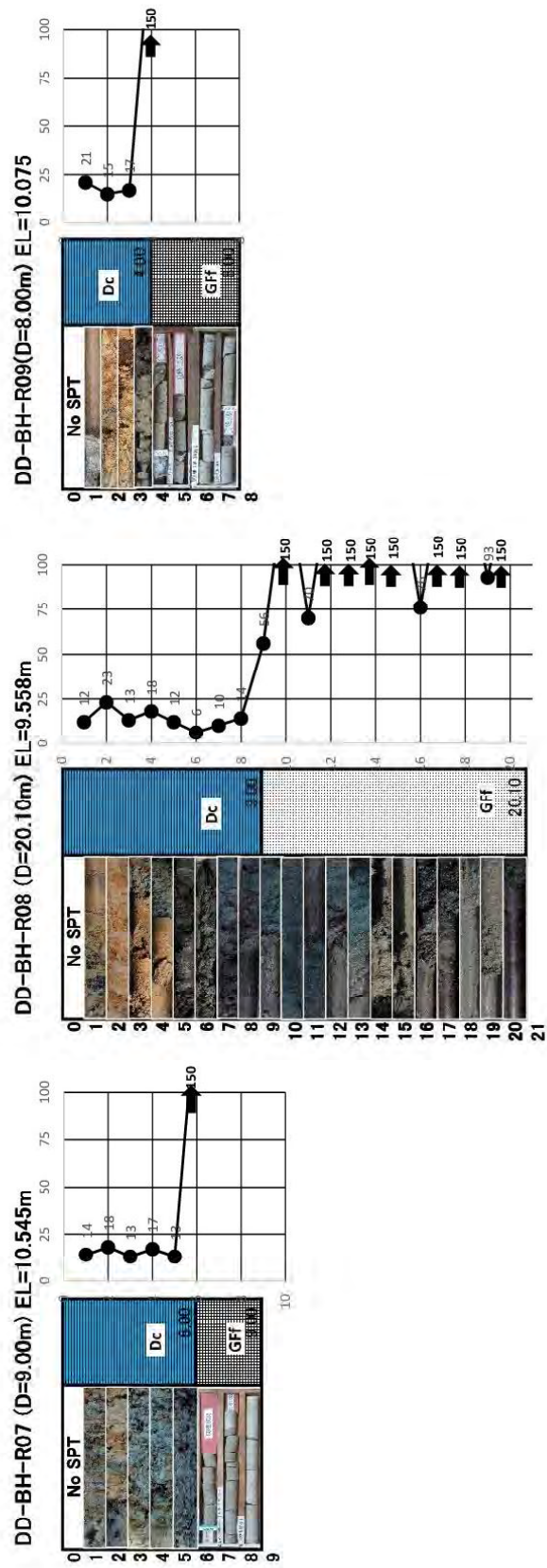


図5-3-2 (9/17) 柱状図 (本詳細設計実施分コア写真入り)

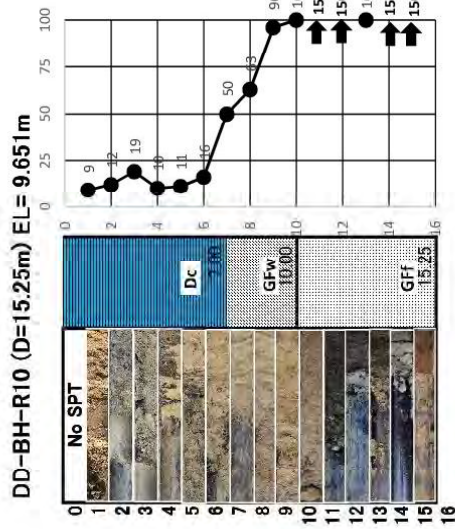
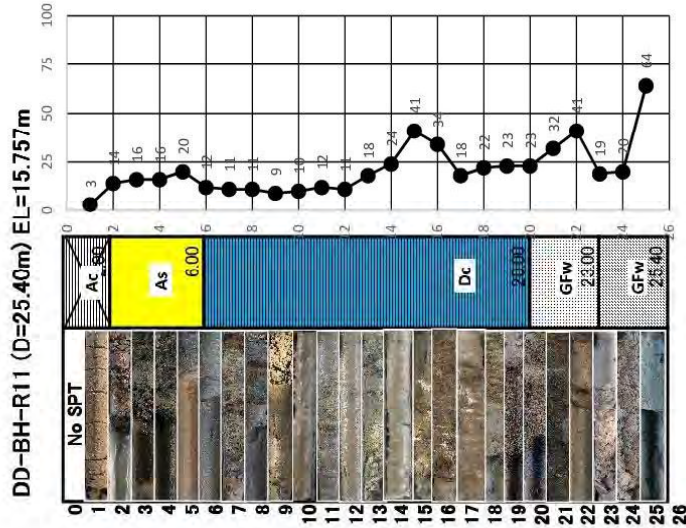
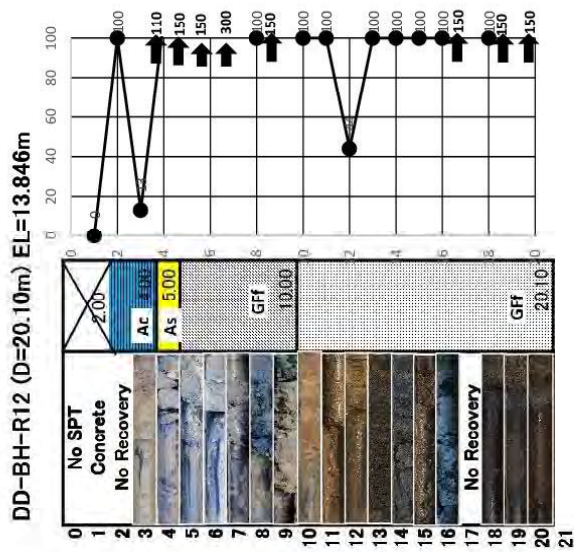


図5-3-2 (10/17) 柱状図 (本詳細設計実施分コア写真入り)

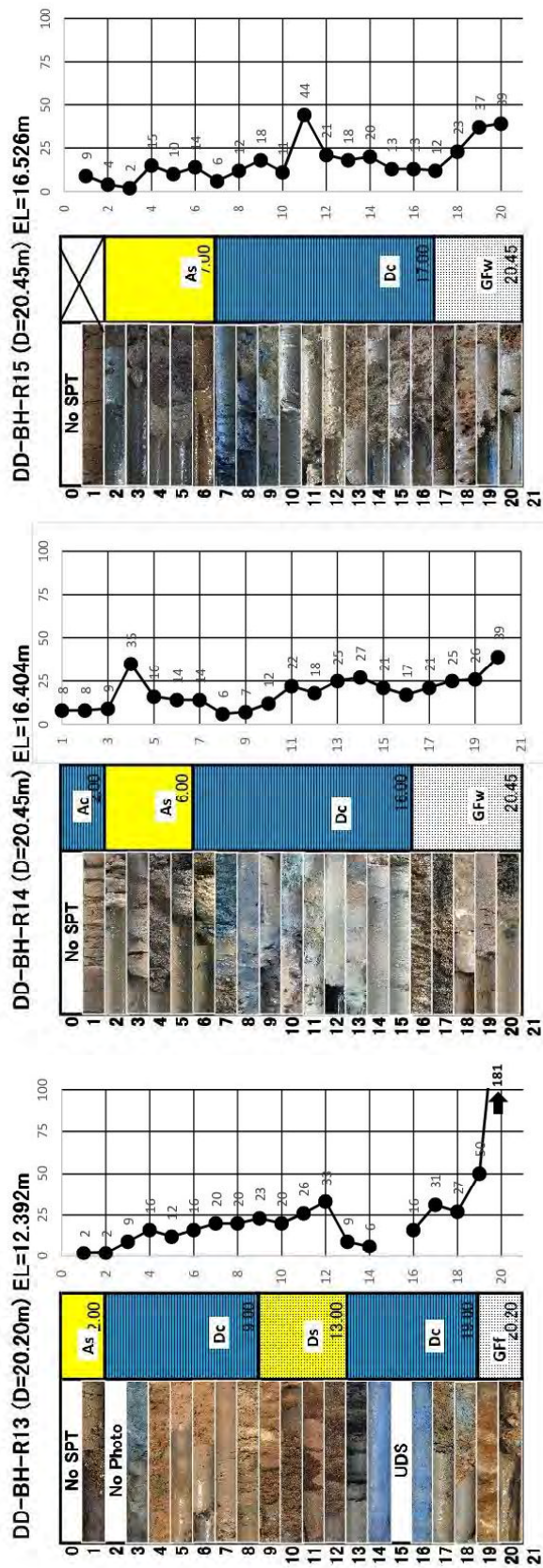


図5-3-2 (11/17) 柱状図 (本詳細設計実施分コア写真入り)

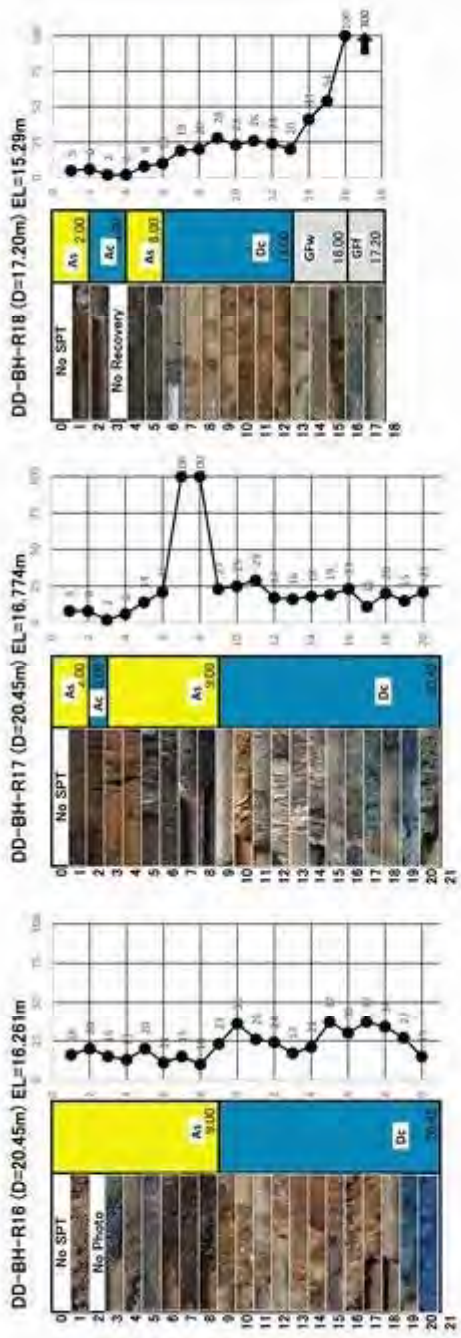


図5-3-2 (12/17) 柱状図 (本詳細設計実施分コア写真入り)

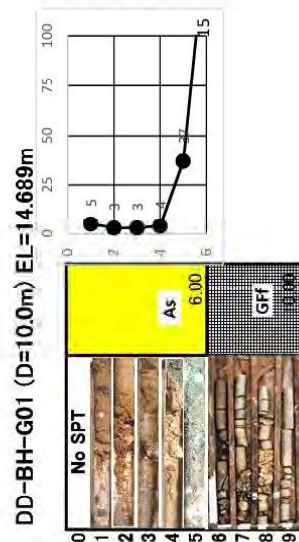
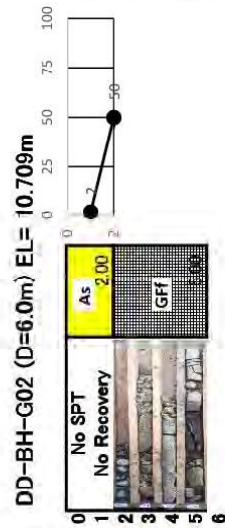
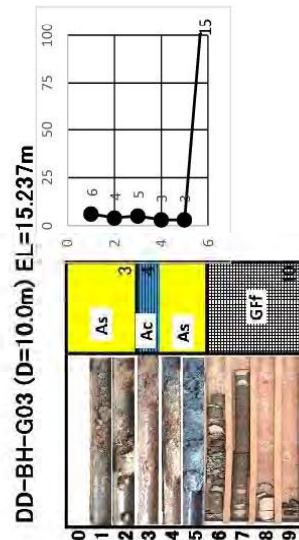


図5-3-2 (13/17) 柱状図 (本詳細設計実施分コア写真入り)

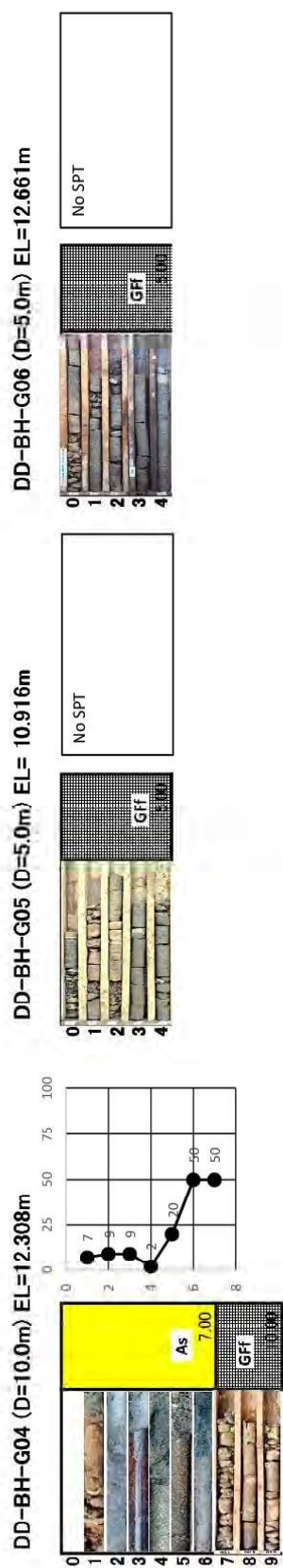


図5-3-2 (14/17) 柱状図 (本詳細設計実施分コア写真入り)

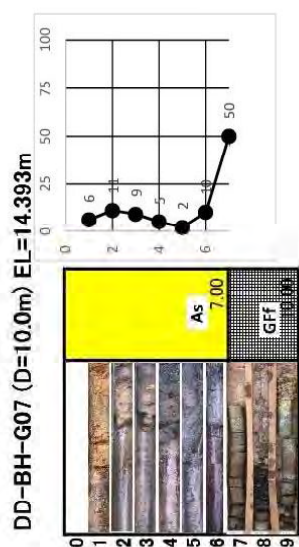


図5-3-2 (15/17) 柱状図 (本詳細設計実施分コア写真入り)

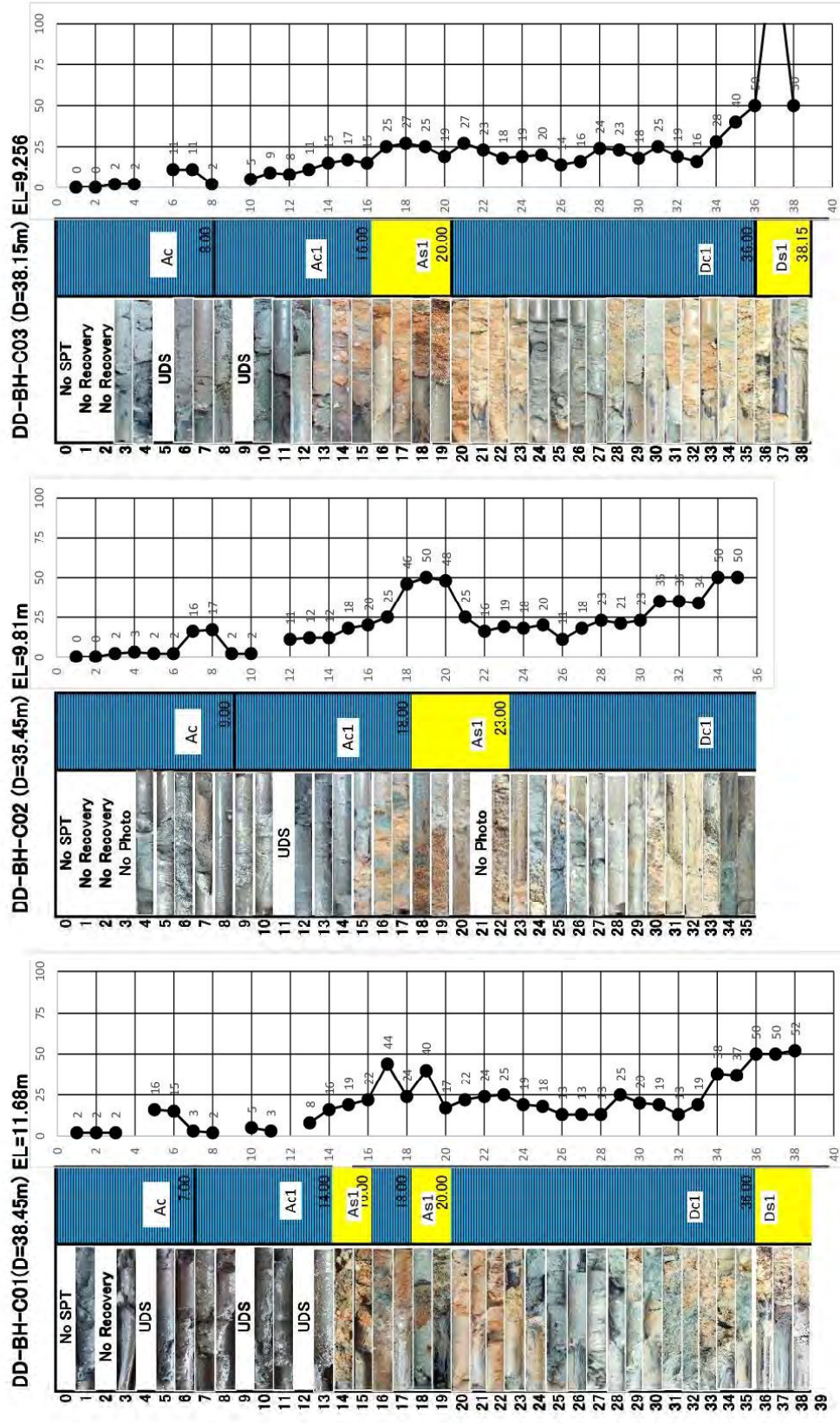


図5-3-2 (16/17) 柱状図 (本詳細設計実施分コア写真入り)

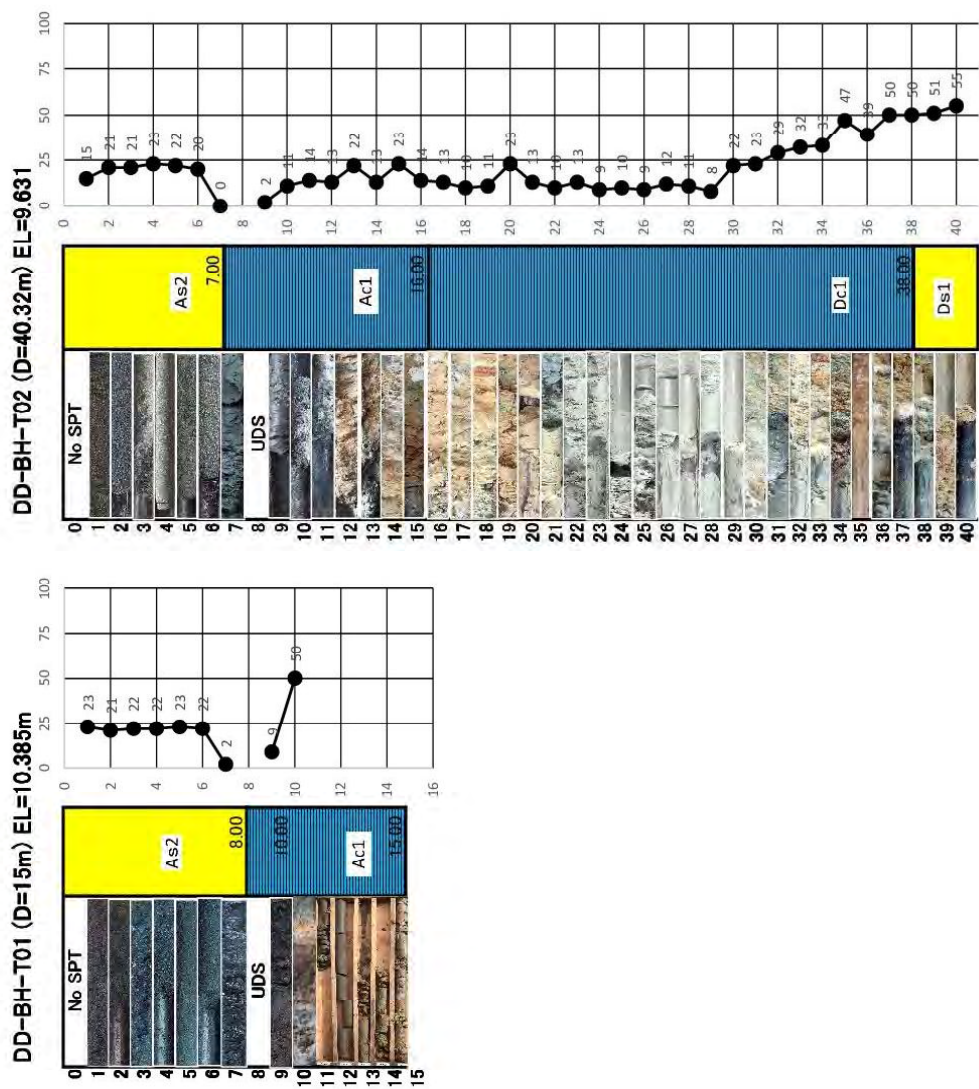


図5-3-2 (17/17) 柱状図 (本詳細設計実施分コア写真入り)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **BDM - 9**

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Right Bank, Libis, Quezon City
BH NO: BDM-9 **DATE DRILLED:** 12 - 13 July 2001

GROUND ELEV. (MLLW = Zero Datum) + 14.387
STATION NO.: 7 + 255
WEATHER: FAIR
COORDINATES: 1615299.547 N, 509307.691 E

DEPTH OF WATER: 2.00 m.
DATE MEASURED: 13 July 2001
TIME MEASURED: 6:00 PM

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
							15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200
1	SS-1	67		SM		Silty Gravelly SAND; grayish brown; 13% non-plastic silt; 28% sub-rounded to angular gravel; 17% coarse sand; 26% medium sand; 16% fine sand; DENSE.	10	15	18	10	20	30	40	50	17			2.64		72	55	29	13		
2	SS-2	89		GM		Silty Sandy GRAVEL; grayish brown; 14% non-plastic silt; 16% coarse sand; 18% medium sand; traces of fine sand; 47% sub-rounded to angular gravel; MEDIUM DENSE.	5	6	6																
3	SS-3	89		GM		Silty Sandy GRAVEL; grayish brown; 14% non-plastic silt; 16% coarse sand; 18% medium sand; traces of fine sand; 47% sub-rounded to angular gravel; MEDIUM DENSE.	6	6	6						31			2.65		53	37	21	14		
4	CR-1	50		ST	0	SANDSTONE; light gray; boulder; HARD.	CORING																		
5	SS-4	100		SM		Silty SAND; dark gray; coarse to fine sand; traces of sub-angular gravel; non-plastic silty fines; MEDIUM DENSE.	4	4	5																
6	SS-5	87		CH		Sandy CLAY; gray; 12% coarse sand; 13% medium sand; 10% fine sand; 61% high plasticity clay; contains little amount of sub-angular gravel; FIRM.	4	4	4						45	58	33	2.61		96	84	71	61*		
7	SS-6	89		CH		Silty CLAY; dark gray to light grayish brown; 89% high plasticity clay; contains little amount of coarse to fine sand; SOFT TO VERY STIFF.	2	2	2																
8	SS-7	89		CH			3	2	2																
9	SS-8	100		CH			2	2	2						52	60	37	2.60		99	87	94	89*		
10	SS-9	100		CH			8	12	15																
11	SS-10	100		CH		8	12	16																	
12	SS-11	89		CL		Silty CLAY; light grayish brown; contains little amount of medium to fine sand; 95% medium to low plasticity clay; VERY STIFF TO HARD.	9	11	16						38	44	19	2.60		100	88	87	95*		
13	SS-12	89		CL		Sandy CLAY; gray; light grayish brown; 13% fine sand; traces of sub-angular gravel; 78% medium to low plasticity clay; contains little amount of medium sand; HARD.	20	22	25																
14	SS-13	100		CL			25	25	25																
15	SS-14	95		CL			29	30	12						32	45	19	2.61		94	93	91	78		
16						End of Borehole (14.97 m)																			



BASIC TECHNOLOGY AND MANAGEMENT CORPORATION
 2nd Floor Prudential Bank Building,
 1377 A. Mabini St., Ermita, Manila

MACHINE: ACKER ACE
DRILLER: R. CASCAYAN
 N. JIMENEZ
SUPERVISOR: M. ESTAURA
 M. VILLAFUERTE

LEGEND:



SS - SPLIT SPOON SAMPLE
 WS - WASH SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 * - HYDROMETER ANALYSIS

図5-3-3 (1/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS BDM - 10

PROJECT: Pasig-Marikina River Channel Imp. Proj. LOCATION: R. Bank, Tawiran, Santolan, Pasig City BH NO: BDM-10 DATE DRILLED: 09 - 11 July 2001	GROUND ELEV. (MLLW = Zero Datum) + 13.033 STATION NO.: 7 + 850 WEATHER: FAIR	DEPTH OF WATER: 2.00 m. DATE MEASURED: 11 July 2001 TIME MEASURED: 12:00 NN COORDINATES: 1615696.578 N, 508904.455 E
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DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE							
							15 cm	15 cm	15 cm	(N-VALUE) 10 20 30 40 50							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH Agrom [†] , kN/m ²	STRAIN W, %	4	10	40	200				
1	SS-1	100		CH		Sandy CLAY; brown; 18% fine sand; 81% medium to low plasticity clay; FIRM.	4	3	3						40	45	22	2.61					100	99	81				
2	SS-2	100		CL		Silty CLAY; brown; 95% medium plasticity clay; traces of fine sand; STIFF.	3	4	3																				
3	SS-3	100					5	4	5						39	48	27	2.60							100	95			
4	SS-4	100					4	4	4																				
5	SS-5	100					3	5	4																				
6	SS-6	100				Silty CLAY; brownish gray to dark gray; 97-98% high plasticity clay; STIFF TO VERY STIFF.	4	4	6						72	71	47	2.60							100	99	98		
7	SS-7	100					5	6	6																				
8	SS-8	100					7	6	7																				
9	SS-9	100		CH			8	9	9						51	55	31	2.60							100	97			
10	SS-10	100					10	11	10																				
11	SS-11	100					11	12	14																				
12	SS-12	89					12	13	13						33	50	28	2.61							100	97	94	64	
13	SS-13	100				Sandy CLAY; grayish brown to dark gray; 24-30% fine sand; 64-74% high plasticity clay; contains little amount of coarse and medium sand-sized shell fragments; VERY STIFF.	14	12	12																				
14	SS-14	100					12	12	11																				
15	SS-15	100					11	11	12						43	54	31	2.61							100	98	74		
16	SS-16	100					10	12	12																				
17	SS-17	100					13	12	12																				
18	SS-18	100		SM		Silty SAND; light gray; 44% non-plastic silt; 14% coarse sand; 21% medium sand; 18% fine sand; contains little amount of angular gravel; VERY DENSE.	10	27	10						60			2.64								97	83	62	44
19	SS-19	98					11	30	11																				
20	SS-20	70				End of Borehole (19.98 m)	12	21	13																				



BASIC TECHNOLOGY AND MANAGEMENT CORPORATION
 2nd Floor Prudential Bank Building,
 1377 A. Mabini St., Ermita, Manila

MACHINE: ACKER ACE
DRILLER: J. MOGOL
 D. DUNA
SUPERVISOR: M. ESTAURA
 M. VILLAFUERTE

LEGEND:

	SS - SPLIT SPOON SAMPLE
	WS - WASH SAMPLE
	UDS - UNDISTURBED SAMPLE
	CR - CORE SAMPLE
*	WI - HYDROMETER ANALYSIS

図5-3-3 (2/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **BDM - 11**

PROJECT: Pasig-Marikina River Channel Imp. Proj. **GROUND ELEV.** (MLLW = Zero Datum) + 12.895 **DEPTH OF WATER:** 1.50 m.
LOCATION: Camp Atienna, Libis, Quezon City **STATION NO.:** 8 + 751 **DATE MEASURED:** 02 July 2001
BH NO: BDM-11 **DATE DRILLED:** 01 - 02 July 2001 **WEATHER:** RAINY **TIME MEASURED:** 3:00 PM
COORDINATES: 1616353.247 N, 508274.451 E

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RCD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
							15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200
										10	20	30	40	50											
1	SS-1	100	⊗	CH		Sandy CLAY; reddish brown to brownish gray; 12-18% fine sand; 72-88% high plasticity clay; traces of sub-rounded gravel; FIRM TO STIFF.	3	4	3					46	54	32	2.60					100	88*		
2	SS-2	100	⊗		3	3	3																		
3	SS-3	100	⊗		4	4	3								43	58	34	2.61				92	92	90	72*
4	SS-4	100	⊗		3	6	6																		
5	SS-5	100	⊗		6	7	6																		
6	SS-6	100	⊗	CL		Gravelly CLAY; brown; 13% gravel; 76% medium to low plasticity clay; with little amount of coarse to fine sand; VERY STIFF.	7	8	8					32	45	22	2.61					87	82	79	76*
7	SS-7	88	⊗		9	8	9																		
8	SS-8	89	⊗		9	8	8																		
9	SS-9	69	⊗		9	10	10								34	48	24	2.60						100	99*
10	SS-10	89	⊗		11	12	15																		
11						End of Borehole (10.00 m)																			
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									

<p>BASIC TECHNOLOGY AND MANAGEMENT CORPORATION 2nd Floor Prudential Bank Building, 1377 A. Mabini St., Ermita, Manila</p>	MACHINE: <u>ACKER ACE</u>	LEGEND: ⊗ SS - SPLIT SPOON SAMPLE ⊙ WS - WASH SAMPLE ⊠ UDS - UNDISTURBED SAMPLE CR - CORE SAMPLE * W/ HYDROMETER ANALYSIS
	DRILLER: <u>J. MOGOL</u> <u>DUNA</u>	
	SUPERVISOR: <u>M. ESTAURA</u> <u>M. VILLAFUERTE</u>	

図5-3-3 (3/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS BDM - 12

PROJECT: Pasig-Marikina River Channel Imp. Proj.	GROUND ELEV. (MLLW = Zero Datum) <u>+ 13.463</u>	DEPTH OF WATER: <u>1.00</u> m.
LOCATION: Left Bank, Santolan, Pasig	STATION NO.: <u>9 + 748</u>	DATE MEASURED: <u>04 July 2001</u>
BH NO: BDM-12 DATE DRILLED: 03 - 04 July 2001	WEATHER: <u>RAINY</u>	TIME MEASURED: <u>1:00 PM</u>
COORDINATES: <u>1617247.859</u> N, <u>508740.199</u> E		

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	ROD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE														
							15 cm	15 cm	15 cm	(N-VALUE) 10 20 30 40 50							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200											
1	SS-1	100	[Symbol]	CH		Sandy CLAY; brown to gray; with little amount of medium sand; 27% fine sand; 71% high plasticity clay; SOFT.	2	2	2						37	52	30	2.61																		
2	SS-2	100	[Symbol]	SM		Silty SAND; brown to gray; 30% non-plastic silt; 68% fine sand; LOOSE TO DENSE.	1	1	2																											
3	SS-3	89	[Symbol]						3	3	3						45			2.63																
4	SS-4	100	[Symbol]				1	1	3																											
5	SS-5	89	[Symbol]				3	3	30																											
6	SS-6	100	[Symbol]				22	23	28						48			2.60																		
7	SS-7	100	[Symbol]				25	24	26																											
8	SS-8	100	[Symbol]				25	25	26																											
9	SS-9	100	[Symbol]	CH		Silty CLAY; brownish gray; 95% to 98% high plasticity clay; with little amount of medium to fine sand; HARD.	20	24	25						40	62	40	2.60																		
10	SS-10	100	[Symbol]					21	23	25																										
11	SS-11	89	[Symbol]					18	21	25																										
12	SS-12	100	[Symbol]					27	24	25						39	56	36	2.60																	
13	SS-13	100	[Symbol]					19	22	26																										
14	SS-14	100	[Symbol]				20	24	26																											
15	SS-15	89	[Symbol]			Sandy CLAY; brown; with little amount of gravel and medium sand; 15% fine sand; 79% high plasticity clay; HARD.	23	23	27						37	52	26	2.61																		
16						End of Borehole (15.00 m)																														

BASIC TECHNOLOGY AND MANAGEMENT CORPORATION
 2nd Floor Prudential Bank Building,
 1377 A. Mabini St., Ermita, Manila

MACHINE: ACKER ACE
DRILLER: R. CASCAYAN
N. JIMENEZ
SUPERVISOR: M. ESTAURA
M. VILLAFUERTE

LEGEND:

- SS - SPLIT SPOON SAMPLE
- WS - WASH SAMPLE
- UDS - UNDISTURBED SAMPLE
- CR - CORE SAMPLE
- W/ HYDROMETER ANALYSIS

図5-3-3 (4/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **BDM - 13**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**

GROUND ELEV. (MLLW = Zero Datum) **+ 15.533**

DEPTH OF WATER: **2.60** m.

LOCATION: **R. Bank, River Bank, Marikina City**

STATION NO.: **10 + 550**

DATE MEASURED: **01 July 2001**

WEATHER: **RAINY**

TIME MEASURED: **5:00 PM**

BH NO: **BDM-13** DATE DRILLED: **30 June - 01 July 2001**

COORDINATES: **1618051.901 N, 508823.952 E**

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
							15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200
1	SS-1	100		CL		Gravelly Sandy CLAY; brown; 14% gravel; 14% fine sand; traces of coarse to medium sand; 80% medium to low plasticity clay; STIFF.	4	4	5						30	44	22	2.62		86	81	74	60*		
2	SS-2	100		SW		Gravelly SAND; brown to gray; 24% sub-angular gravel; 14% coarse sand; 30% medium sand; 30% fine sand; with little amount of non-plastic silt; MEDIUM DENSE TO DENSE.	5	6	8																
3	SS-3	22					22	23	23						4			2.64		76	62	33	2		
4	SS-4	33		SW SM		Silty Gravelly SAND; light grayish to brown; 16% non-plastic silt; 21% gravel; 39% medium sand; 20% fine sand; with little amount of coarse sand; VERY DENSE TO DENSE.	30	33	36																
5	SS-5	40					17	22	27						30			2.65		79	75	36	16		
6	CR-1	18			0		CORING																		
7	CR-2	10			0		CORING																		
8	CR-3	10			0	SANDSTONE; brownish gray; medium to coarse grain; highly to completely weathered; SOFT.	CORING																		
9	CR-4	15			0		CORING																		
10	CR-5	15			0		CORING																		
11	CR-6	12			0		CORING																		
12	CR-7	12			0		CORING																		
13	CR-8	37			0	Sandy TUFF; light gray; fine grain; moderately weathered; HARD.	CORING																		
14	CR-9	85			40		CORING																		
15	CR-10	37			12		CORING								22	1.41				26.252	3.333				
16						End of Borehole (15.00 m)																			



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MACHINE: **ACKER ACE**
 DRILLER: **D. SAYSON**
 M. ESTAURA
 SUPERVISOR: **M. VILLAFUERTE**

LEGEND:
 SS - SPLIT SPOON SAMPLE
 WS - WASH SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 * W/ HYDROMETER ANALYSIS

図5-3-3 (5/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS BDM - 14

PROJECT: Pasig-Marikina River Channel Imp. Proj. LOCATION: R. Bank, River Bank, Marikina City BH NO: BDM-14 DATE DRILLED: 02 - 04 July 2001	GROUND ELEV. (MLLW = Zero Datum) <u>+ 13.573</u> STATION NO.: <u>10 + 800</u> WEATHER: <u>RAINY</u>	DEPTH OF WATER: <u>2.00</u> m. DATE MEASURED: <u>04 July 2001</u> TIME MEASURED: <u>3:00 PM</u> COORDINATES: <u>1618019.113</u> N, <u>509116.158</u> E
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DEPTH, m	SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE										
							15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200							
1	SS-1	100	[Symbol]	CH		Silty CLAY; brown to brownish gray; 92% high plasticity clay; traces of fine sand; SOFT.	1	1	1	10	20	30	40	50	42	57	34	2.60									100	92*				
2	SS-2	87	[Symbol]	CH		Gravelly Sandy CLAY; brown to gray; 18% sub-angular gravel; 10% coarse sand; 20% fine sand; 44% high plasticity clay; traces of medium sand; MEDIUM DENSE.	1	1	3	10	20	30	40	50	52	64	39	2.64						82	72	64	44					
3	SS-3	100	[Symbol]	CH		Sandy CLAY; light grayish brown; 11% coarse sand; 20% medium sand; 15% fine sand; with little amount of sub-angular gravel; 51% medium to low plasticity clay; STIFF TO VERY STIFF.	13	15	14	10	20	30	40	50	28	43	20	2.62														
4	SS-4	100	[Symbol]	CH			3	3	5	10	20	30	40	50																		
5	SS-5	89	[Symbol]	CL			8	11	14	10	20	30	40	50																		
6	SS-6	100	[Symbol]	CL			10	12	16	10	20	30	40	50																		
7	SS-7	100	[Symbol]	CL		Silty SAND; brown; 38% non-plastic silt; 55% fine sand; traces of medium sand; DENSE.	6	9	11	10	20	30	40	50	22			2.63														
8	SS-8	100	[Symbol]	SM			8	12	14	10	20	30	40	50																		
9	SS-9	67	[Symbol]	SM			10	16	19	10	20	30	40	50																		
10	SS-10	67	[Symbol]	SM			12	18	24	10	20	30	40	50																		
11	SS-11	100	[Symbol]	CL			16	19	26	10	20	30	40	50																		
12	SS-12	100	[Symbol]	CL			14	24	36	10	20	30	40	50																		
13	SS-13	100	[Symbol]	SM		Silty SAND; brown; 42% non-plastic silt; 44% fine sand; traces of medium sand; contains little amount of gravel and coarse sand; VERY DENSE.	16	26	32	10	20	30	40	50	23			2.63														
14	SS-14	89	[Symbol]	SM			18	24	33	10	20	30	40	50																		
15	SS-15	89	[Symbol]	SM			20	26	37	10	20	30	40	50																		
15	End of Borehole (15.00 m)																															

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DRILLER: D. SAYSON
 M. ESTAURA
SUPERVISOR: M. VILLAFUERTE

LEGEND:
 SS - SPLIT SPOON SAMPLE
 WS - WASH SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 W/HYDROMETER ANALYSIS

図5-3-3 (6/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **BDM - 15**

PROJECT: Pasig-Marikina River Channel Imp. Proj. **GROUND ELEV.** (MLLW = Zero Datum) + 13.437 **DEPTH OF WATER:** 1.50 m.
LOCATION: L. Bank, Kagitingan St., Calumpang, Marikina **STATION NO.:** 11 + 565 **DATE MEASURED:** 08 July 2001
BH NO: BDM-15 **DATE DRILLED:** 07 July 2001 **WEATHER:** FAIR **TIME MEASURED:** 1:00 PM
COORDINATES: 1617392.466 N, 509567.402 E

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE					
							15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200		
1	SS-1	88		CH		Silty CLAY; brownish gray; 87% high plasticity clay; with little amount of sub-rounded gravel and coarse sand; traces of fine sand; FIRM.	3	3	2	10	20	30	40	50	46	60	37	2.61			98	96	95	87*			
2	SS-2	88					Silty CLAY; brown; 94% high plasticity clay; with little amount of fine sand; FIRM.	2	3	2						44	61	38	2.60					100	99	94*	
3	SS-3	100						3	3	3																	
4	SS-4	100		CL		Sandy CLAY; light brownish gray; with little amount medium sand; 15% fine sand; 83% medium to low plasticity clay; VERY STIFF.	2	3	2																		
5	SS-5	100						4	8	9																	
6	SS-6	100						5	9	11							37	46	25	2.60					100	98	83*
7	SS-7	100						10	12	13																	
8	SS-8	100						10	14	16																	
9	SS-9	100						11	16	17							34	44	21	2.60					100	99	95*
10	SS-10	100				13	18	18																			
10	End of Borehole (10.00 m)																										



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SUPERVISOR: M. ESTAURA
 M. VILLAFUERTE

LEGEND:
 SS - SPLIT SPOON SAMPLE
 WS - WASH SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 W/ HYDROMETER ANALYSIS

図5-3-3 (7/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **BDM - 16**

PROJECT: Pasig-Marikina River Channel Imp. Proj.	GROUND ELEV. (MLLW = Zero Datum) <u>+ 14.575</u>	DEPTH OF WATER: <u>2.70</u> m.
LOCATION: <u>L. Bank, Sta. Elena, Marikina City</u>	STATION NO.: <u>12 + 682</u>	DATE MEASURED: <u>06 July 2001</u>
BH NO: <u>BDM-16</u> DATE DRILLED: <u>05 - 06 July 2001</u>	WEATHER: <u>RAINY</u>	TIME MEASURED: <u>4:00 PM</u>
COORDINATES: <u>1618224.591</u> N, <u>509991.862</u> E		

DEPTH, m	SAMPLE NO.	RECOVERY (%)	SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE)	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
								15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200
1	SS-1	89			SM SW		Gravelly Silty SAND; brown; 11% sub-angular gravel; 32% non-plastic silt; 22% coarse sand; 15% medium sand; 20% fine sand; LOOSE.	3	3	3	10	23			2.84			88	67	52	32	
2	SS-2	89						2	1	1	20											
3	SS-3	89			CH		Silty CLAY; grayish brown; 92% to 93% high plasticity clay; with traces of fine sand; SOFT TO STIFF.	1	1	1	30	52	67	46	2.80		100	99	99	92*		
4	UDS-1	100						PRESSED			50	1.65	69	45	2.80	Cc 0.330 Pc 1.800	12,000	100	99	93*		
5	SS-4	87						6	4	6	30											
6	SS-5	67						7	7	8	30											
7	SS-6	89			CH		Silty CLAY; light brownish gray; 98% medium to high plasticity clay; with little amount of fine sand; VERY STIFF.	7	10	12	30	42	54	33	2.80				100	98*		
8	SS-7	89						10	12	14	30											
9	SS-8	67						11	14	15	30											
10	SS-9	67					Silty CLAY; bluish brown; 96% to 97% medium to low plasticity clay; with little amount of fine sand; VERY STIFF.	10	13	17	30	37	44	23	2.80				100	96*		
11	SS-10	71			CL			11	14	15	30											
12	SS-11	67						11	14	16	30											
13	SS-12	76						10	12	16	30	36	44	22	2.80				100	97*		
14	SS-13	67					Sandy CLAY; bluish brown; 18% fine sand; 80% medium to low plasticity clay; HARD.	11	13	17	30											
15	SS-14	67						10	14	18	30	33	48	25	2.80				100	98	80*	
16	End of Borehole (15.00 m)																					



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 2nd Floor Prudential Bank Building,
 1377 A. Mabini St., Ermita, Manila

MACHINE: ACKER ACE
 DRILLER: D. BAYON
 SUPERVISOR: M. ESTAURA
M. VILLAFUERTE

LEGEND:
 [Symbol] SS - SPLIT SPOON SAMPLE
 [Symbol] WS - WASH SAMPLE
 [Symbol] UDS - UNDISTURBED SAMPLE
 [Symbol] CR - CORE SAMPLE
 [Symbol] * W/ HYDROMETER ANALYSIS

図5-3-3 (8/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **BL - 1a**

PROJECT: Pasig-Marikina River Channel Imp. Proj. **GROUND ELEV.** (MLLW = Zero Datum) + 12.090 **DEPTH OF WATER:** 1.00 m
LOCATION: Left Bank, Jones Bridge, Intramuros, Mla. **STATION NO.:** 1 + 820 **DATE MEASURED:** 05 Dec. 2000
BH NO: BL-1 **DATE DRILLED:** 29 Nov. - 05 Dec. 2000 **WEATHER:** FAIR **TIME MEASURED:** 8:00 AM
COORDINATES: 1614175.951 N, 497420.525 E

DEPTH, m	SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE)	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
							15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200
1	SS-1	89	[Symbol]	SW		Gravelly SAND; dark gray; 73% fine to coarse sand; 18% sub-angular gravel with shell fragments; 9% non-plastic silt; MEDIUM DENSE.	9	11	13	10	13			2.60		82	60	30	9		
2	SS-2	89	[Symbol]				10	12	14												
3	SS-3	89	[Symbol]				11	14	15												
4	SS-4	67	[Symbol]	Bs	0	Gravelly SAND; dark gray; 57% fine to coarse sand; 36% sub-angular gravel with shell fragments; 7% non-plastic silt; VERY DENSE.	20	25	28	10	45			2.63		64	51	26	7		
5	CR-1	22	[Symbol]				CORING	Basalt BOULDERS; dark gray; broken rock cores; VERY HARD.													
6	SS-5	100	[Symbol]	SW		Gravelly SAND; dark gray; sub-angular gravel; fine to coarse sand; MEDIUM DENSE.	14	10	7	10											
7	SS-6	100	[Symbol]				9	8	8												
8	SS-7	100	[Symbol]	CH		Silty CLAY; dark greenish gray to dark gray; about 93-97% high plasticity silty clay; few sand particles with shell fragments; SOFT to FIRM.	2	2	2	10	74	65	43	2.60		96	95	94	83		
9	SS-8	100	[Symbol]				1	3	2												
10	SS-9	100	[Symbol]				2	3	1												
11	SS-10	100	[Symbol]				3	2	1												
12	SS-11	100	[Symbol]				2	1	3												
13	SS-12	100	[Symbol]				4	2	1												
14	SS-13	100	[Symbol]				2	2	1												
15	SS-14	100	[Symbol]				1	1	3												
16	SS-15	100	[Symbol]				14	6	4												
17	SS-16	100	[Symbol]				6	6	5												
18	SS-17	100	[Symbol]	3	4	3															
19	SS-18	100	[Symbol]	6	4	2															
20	SS-19	100	[Symbol]			Sandy CLAY; dark gray; 12-24% fine sand; 75-86% high plasticity clay; FIRM.	2	4	2	10	73	61	37	2.60		99	99	98	86		

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MACHINE: ACKER ACE
DRILLER: J. MOGUL
SUPERVISOR: M. Estaura

LEGEND:
 [Symbol] SS - SPLIT SPOON SAMPLE
 [Symbol] WS - WASH SAMPLE
 [Symbol] UDS - UNDISTURBED SAMPLE
 [Symbol] CR - CORE SAMPLE
 [Symbol] * W/ HYDROMETER ANALYSIS

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS

BL - 1b

PROJECT: Pasig-Marikina River Channel Imp. Proj.

GROUND ELEV. (MLLW = Zero Datum) +12.09

DEPTH OF WATER: 1.00 m

LOCATION: Left Bank, Jones Bridge, Intramuros, Mla.

STATION NO.: 1 + 820

DATE MEASURED: 05 Dec. 2000

BH NO: BL-1 DATE DRILLED: 29 Nov. - 05 Dec. 2000

WEATHER: FAIR

TIME MEASURED: 8:00 AM

COORDINATES: 1614175.951 N, 497420.525 E

DEPTH, m	SAMPLE NO.	RECOVERY (%)	LOG \$ SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
							15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200
21	SS-21	100		CH		Sandy CLAY; dark gray; 75-86% high plasticity silty to clayey fines with 12-24% very fine sand; FIRM.	4	4	3												
22	SS-21	100		CH			3	4	3												
23	SS-22	100		CH			3	3	2												
24	SS-23	100		CH			4	3	1		49	52	31	2.61				100	99	75	
25	SS-24	100		CH			2	2	3												
26	SS-25	100		CH		Silty CLAY; dark gray; 91% high plasticity clay with 7% medium to fine sand; FIRM to STIFF.	1	3	3												
27	SS-26	100		CH			3	3	3		124	61	32	2.60				100	98	94	91
28	SS-27	100		CH			4	5	6												
29	SS-28	100		MH		Clayey SILT; dark gray; 94% high plasticity clay with 6% medium to fine sand; FIRM TO STIFF.	10	15	19												
30	SS-29	100		MH			20	20	25		89	58	26	2.60				100	98	94	
31	SS-30	100		MH			4	3	4												
32	SS-31	100		MH		Silty CLAY; dark gray; 96% high plasticity clay with 11% fine to medium sand; FIRM to HARD.	5	7	9												
33	SS-32	100		MH			15	15	15		73	63	46	2.60				100	97	96	
34	SS-33	100		MH			18	19	19												
35	SS-34	56		CH			17	22	24												
36	SS-35	100		CH			19	22	23		38	63	42	2.60				100	99	94	91
37	SS-36	100		CH		Silty CLAY; dark gray; 87-91% high plasticity silty clay with 10% medium to fine sand; HARD.	21	21	23												
38	SS-37	100		CH			20	23	23												
39	SS-38	67		CH			23	21	24		37	61	40	2.60				100	92	87	
40	SS-39	67		CH			23	25	26												

BTA BASIC TECHNOLOGY AND MANAGEMENT CORPORATION
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LEGEND:
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 CR - CORE SAMPLE
 * W/ HYDROMETER ANALYSIS

図5-3-3 (10/221) 柱状図 (フェーズI実施分)