



**Bid Bulletin No. 2**  
**27 November 2020**

**PUBLIC BIDDING No. 20 – 037– 10**  
**ADVANCED WORK PACKAGE 2: DESIGN-BUILD WORKS FOR THE**  
**FUNCTIONAL REPLICATION OF BUILDING STRUCTURES AND IMPROVEMENT**  
**OF FACILITIES WITHIN CAMP AGUINALDO**

Issued pursuant to Sec. 22.5 of the IRR of R.A. 9184 to clarify and/or amend certain provisions in the Bidding Documents issued for this project, likewise, respond to bidders' written queries received within the prescriptive period for filing.

**I. Clarifications**

CLARIFICATIONS	RESPONSES
<p>1. On the eligibility and technical requirements, may we ask for your confirmation in the form of a bid bulletin regarding the following items verbally responded to by the Honorable BAC during the pre-bid conference last Nov 22, 2020:</p> <ul style="list-style-type: none"> <li>a. that the bidder shall follow or use the existing forms included in the issued bidding documents for the Omnibus Sworn Statements, etc:</li> <li>b. In the absence of quantities in the bidding documents, the bidder shall provide a minimum number of one (1) for each stipulated equipment required in this bidding;</li> </ul>	<p>a. <b><i>We confirm. Please refer to Section 19 of Instructions to Bidders.</i></b></p> <p>b. <b><i>Only one equipment is required under Bid Data Sheet 12.1(b)(ii.3). However, the bidders are not precluded from providing more than the minimum requirement.</i></b></p>
<p>2. May we request for your response if the written bank certificate is a bid requirement as stated on Page 15 of the Terms of Reference but is not in the list of requirements in the bid data sheet and in the presentation of requirements during the pre-bid conference.</p>	<p><b><i>Please refer to the issued Bid Bulletin No. 1.</i></b></p>
<p>3. May we request for a copy of the Soil Investigation result from the project site, if any, for the purpose of incorporating it to our proposed design and estimates?</p>	<p><b><i>Soil Investigation is part of the Contractor's</i></b></p>

*For the purpose of this Bulletin and for better understanding of its contents, the following rules shall apply: (a) ~~Double-Strike-out~~ – denotes deletion; (b) Underline – denotes inclusion or new item/requirement; and "xxx" – denotes separation of phrase/s being amended from the rest of the main text.*

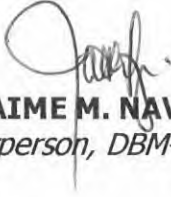
	<p><i>scope of work.</i></p> <p><b>Only for reference, attached as Annex A is the Borehole Test Result taken not exactly at the project site but within the driving range.</b></p>
<p>4. Should we find the Approved Budget for the Contract may not be sufficient based on the initial Concept Designs prepared by the end-users, may we clarify if Bidders are allowed to make modifications in terms of the size of the structures, space requirements and materials specifications? Relatively, if this may be allowed, can we not follow the quantities presented in the issued Bill of Quantities and present our own estimates based on our proposed design?</p>	<p><b>Prepare a Concept design based on DOTr's ABC</b></p>
<p>6. Relatively, are we allowed to add items or scope of works in the BOQ that we find necessary for the project?</p>	<p><b>You can include that in your Concept Design</b></p>
<p>7. Please confirm if we should submit an excel file of the financial bid form or a PDF copy would suffice.</p>	<p><b>Please refer to the issued Bid Bulletin No. 1.</b></p>
<p>8. May we ask if workers' barracks will be allowed inside the site premises?</p>	<p><b>This is allowed inside Camp Aguinaldo</b></p>
<p>9. For the duration of design which is ninety (90) calendar days, does this include the review and approval of the end-user? As we have no control on such, is it possible to exclude it in the design period?</p>	<p><b>Yes, that includes the approval of DND/AFP</b></p>
<p>10. We were able to conduct a site inspection in the project site but were not given a Certificate of Site Inspection, to whom we should follow up the same?</p>	<p><b>Only those who were able to conduct a site inspection until 27 November 2020 will be given a Certificate of Site Inspection.</b></p> <p><b>All those who conducted an inspection but were not given a certificate shall coordinate directly</b></p>

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	<p><i>to:</i> <b>Major Derman Impas</b> <b>+63 919 463 1914</b></p>
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The herein amendments form an integral part of the bidding documents. Correspondingly, all other provisions in the bidding documents affected by these amendments are similarly amended or modified.

The clarifications made explain in greater detail the purpose or intent of the requirement and do not necessarily amend that particular provision in the bidding documents.

  
**ENGR. JAIME M. NAVARRETE, JR.**  
*Chairperson, DBM-PS BAC X*

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## FINAL BORING LOG

ASTM D1586-08a, ASTM D1587-08, ASTM D2113-08

<b>Project Name:</b>	CONSTRUCTION OF MULTI-PURPOSE BUILDING (FOUR STOREY OFFICERS QUARTERS) CORPS AT PROFESSORS , AFP		
<b>Project Location:</b>	CAMP AGUINALDO, QUEZON CITY		
<b>Client:</b>	DPWH-QUEZON CITY 2ND DISTRICT ENG'G OFFICE	<b>Project Reference #:</b>	1910NCR2QZC5
<b>Client's Address:</b>	790 EDSA, DILIMAN, QUEZON CITY	<b>Contact Number:</b>	-
<b>Consultant:</b>	-	<b>Contact Number:</b>	-
<b>Sampling Location:</b>	CAMP AGUINALDO, QUEZON CITY		
<b>Date of Sampling:</b>	DS/DF: 3/12/20	<b>Borehole Number:</b>	BH1
<b>Site Topography:</b>	FLAT	<b>Borehole Depth (m):</b>	15.00
<b>Weather Condition:</b>	SUNNY	<b>Ground Elevation (m):</b>	-
<b>Coordinates:</b>	14.607889 N , 121.069478 E	<b>Ground Water Level (m):</b>	3.5
<b>Station:</b>	-	<b>Date/Time Measured:</b>	12/03/20
<b>Type of Drilling Machine:</b>	TOHO-7	<b>Drilling Orientation:</b>	VERTICAL
<b>Type of Hammer:</b>	SEMI-AUTOMATIC	<b>Type of Drill Pump:</b>	SUPPLY PUMP

DEPTH (m)	SAMPLING DEPTH (m)	SAMPLE ID	TYPE OF SAMPLING	REC. (%)	RQD (%)	SPT BLOWS PER 15 cm	N-VALUE	N-VALUE (Graphical)					CONSISTENCY RQD DESCRIPTION	SOIL DESCRIPTION	SOIL SYMBOL	REMARKS
								10	20	30	40	50				
1.50	1.05	SS1	X	33	-	50	-	-	-	-	-	-	VERY DENSE	Dark Brown Clayey SAND (SC)	[Symbol]	
3.00	1.50	CS1		30	0	-	-	-	-	-	-	-	VERY POOR	Dark gray, SANDSTONE	[Symbol]	
4.50	3.00	CS2		25	0	-	-	-	-	-	-	-	VERY POOR	Dark gray, SANDSTONE	[Symbol]	
6.00	4.50	CS3		28	0	-	-	-	-	-	-	-	VERY POOR	Dark gray, SANDSTONE	[Symbol]	
7.50	6.00	CS4		33	0	-	-	-	-	-	-	-	VERY POOR	Dark gray, SANDSTONE	[Symbol]	
9.00	7.50	CS5		34	0	-	-	-	-	-	-	-	VERY POOR	Dark gray, SANDSTONE	[Symbol]	
10.50	9.00	CS6		31	0	-	-	-	-	-	-	-	VERY POOR	Dark gray, SANDSTONE	[Symbol]	
12.00	10.50	CS7		30	0	-	-	-	-	-	-	-	VERY POOR	Dark gray, SANDSTONE	[Symbol]	
13.50	12.00	CS8		27	0	-	-	-	-	-	-	-	VERY POOR	Dark gray, SANDSTONE	[Symbol]	
15.00	13.50	CS9		31	0	-	-	-	-	-	-	-	VERY POOR	Dark gray, SANDSTONE	[Symbol]	

<b>LEGENDS, SYMBOLS, AND RANGE OF VALUES</b>	<b>TYPES OF SAMPLING</b> Wash Boring Coring Undisturbed Sampling Standard Penetration Test	<b>TYPES OF SOIL</b> Clay Sand Silt Gravel Shell Coring	<b>COHESIVE SOIL</b> <table style="font-size: small;"> <tr><td>N-VALUE</td><td>Consistency</td></tr> <tr><td>0 - 1</td><td>Very Soft</td></tr> <tr><td>2 - 4</td><td>Soft</td></tr> <tr><td>5 - 8</td><td>Medium Stiff</td></tr> <tr><td>9 - 15</td><td>Stiff</td></tr> <tr><td>16 - 30</td><td>Very Stiff</td></tr> <tr><td>31 - 50</td><td>Hard</td></tr> <tr><td>&gt; 50</td><td>Very Hard</td></tr> </table>	N-VALUE	Consistency	0 - 1	Very Soft	2 - 4	Soft	5 - 8	Medium Stiff	9 - 15	Stiff	16 - 30	Very Stiff	31 - 50	Hard	> 50	Very Hard	<b>GRANULAR SOIL</b> <table style="font-size: small;"> <tr><td>N-VALUE</td><td>Density</td></tr> <tr><td>0 - 4</td><td>Very Loose</td></tr> <tr><td>5 - 10</td><td>Loose</td></tr> <tr><td>11 - 24</td><td>Medium Dense</td></tr> <tr><td>25 - 50</td><td>Dense</td></tr> <tr><td>&gt; 50</td><td>Very Dense</td></tr> </table>	N-VALUE	Density	0 - 4	Very Loose	5 - 10	Loose	11 - 24	Medium Dense	25 - 50	Dense	> 50	Very Dense	<b>ROCK QUALITY DESIGNATION (RQD)</b> <table style="font-size: small;"> <tr><td>RQD %</td><td>Description</td></tr> <tr><td>&lt; 25</td><td>Very poor</td></tr> <tr><td>25 - 50</td><td>Poor</td></tr> <tr><td>51 - 75</td><td>Fair</td></tr> <tr><td>76 - 90</td><td>Good</td></tr> <tr><td>&gt; 90</td><td>Excellent</td></tr> </table>	RQD %	Description	< 25	Very poor	25 - 50	Poor	51 - 75	Fair	76 - 90	Good	> 90	Excellent
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Sizes and type of the samplers used are shown in the Field Boring Log

Performed by: NIEL RICHIE ESTRELLA  
*Senior Driller*

Approved by: REMEDIOS SOLDADO  
*Head of Engineering Department*



DPWH-BRS ACCREDITED TESTING LABORATORY








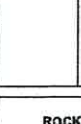
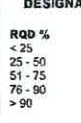
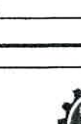
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 Page 1 of 1











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## FINAL BORING LOG

ASTM D1586-08a, ASTM D1587-08, ASTM D2113-08

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<b>Project Location:</b>	CAMP AGUINALDO, QUEZON CITY		
<b>Client:</b>	DPWH-QUEZON CITY 2ND DISTRICT ENG'G OFFICE	<b>Project Reference #:</b>	1910NCR2QZC5
<b>Client's Address:</b>	790 EDSA, DILIMAN, QUEZON CITY	<b>Contact Number:</b>	-
<b>Consultant:</b>	-	<b>Drilling Orientation:</b>	VERTICAL
<b>Sampling Location:</b>	CAMP AGUINALDO, QUEZON CITY	<b>Borehole Number:</b>	BH2
<b>Date of Sampling:</b>	DS/DF: 3/13/20	<b>Borehole Depth (m):</b>	15.00
<b>Site Topography:</b>	FLAT	<b>Ground Elevation (m):</b>	-
<b>Weather Condition:</b>	SUNNY	<b>Ground Water Level (m):</b>	3.50
<b>Coordinates:</b>	14.608042 N , 121.069455 E	<b>Date/Time Measured:</b>	3/13/20
<b>Station:</b>	-	<b>Type of Drilling Machine:</b>	TOHO-7
<b>Type of Drilling Machine:</b>	TOHO-7	<b>Type of Hammer:</b>	SEMI-AUTOMATIC
<b>Type of Hammer:</b>	SEMI-AUTOMATIC	<b>Type of Drill Pump:</b>	SUPPLY PUMP

DEPTH (m)	SAMPLING DEPTH (m)	SAMPLE ID	TYPE OF SAMPLING	REC (%)	RQD (%)	SPT BLOWS PER 15 cm	N-VALUE	N-VALUE (Graphical)					CONSISTENCY/ RQD DESCRIPTION	SOIL DESCRIPTION	SOIL SYMBOL	REMARKS
								10	20	30	40	50				
	0.00															
1.50	1.50	CS1		30	0	-	-	-	-	-	-		VERY POOR	Dark gray, SANDSTONE		
	1.50															
3.00	3.00	CS2		32	0	-	-	-	-	-	-		VERY POOR	Dark gray, SANDSTONE		
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6.00	6.00	CS4		37	0	-	-	-	-	-	-		VERY POOR	Dark gray, SANDSTONE		
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7.50	7.50	CS5		35	0	-	-	-	-	-	-		VERY POOR	Dark gray, SANDSTONE		
	7.50															
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13.50	13.50	CS9		23	0	-	-	-	-	-	-		VERY POOR	Dark gray, SANDSTONE		
	13.50															
15.00	15.00	CS10		20	0	-	-	-	-	-	-		VERY POOR	Dark gray, SANDSTONE		

<b>LEGENDS, SYMBOLS, AND RANGE OF VALUES</b>	<b>TYPES OF SAMPLING</b>	<b>TYPES OF SOIL</b>	<b>COHESIVE SOIL</b>	<b>GRANULAR SOIL</b>	<b>ROCK QUALITY DESIGNATION (RQD)</b>
	 Wash Boring  Coring  Undisturbed Sampling  Standard Penetration Test	 Clay  Sand  Silt  Gravel  Shell  Coring	<b>N-VALUE</b> 0 - 1 Very Soft 2 - 4 Soft 5 - 8 Medium Stiff 9 - 15 Stiff 16 - 30 Very Stiff 31 - 50 Hard > 50 Very Hard	<b>N-VALUE</b> Density 0 - 4    Very Loose 5 - 10    Loose 11 - 24    Medium Dense 25 - 50    Dense > 50    Very Dense	<b>RQD %</b> Description < 25    Very poor 25 - 50    Poor 51 - 75    Fair 76 - 90    Good > 90    Excellent

Sizes and type of the samplers used are shown in the Field Boring Log

<b>Performed by:</b>	 NIEL RICHIE ESTRELLA <i>Senior Driller</i>	 DPWH-BRS ACCREDITED TESTING LABORATORY
<b>Approved by:</b>	 REMEDIOS SOLDAO <i>Head of Engineering Department</i>	1910NCR2QZC5_RFBL_BH2_0 Page 1 of 1

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## FINAL BORING LOG

ASTM D1586-08a, ASTM D1587-08, ASTM D2113-08

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<b>Client:</b>	DPWH-QUEZON CITY 2ND DISTRICT ENG'G OFFICE	<b>Project Reference #:</b>	1910NCR2QZC5
<b>Client's Address:</b>	790 EDSA, DILIMAN, QUEZON CITY		
<b>Consultant:</b>	-	<b>Contact Number:</b>	-
<b>Sampling Location:</b>	CAMP AGUINALDO, QUEZON CITY		
<b>Date of Sampling:</b>	DS/DF: 3/14/20	<b>Borehole Number:</b>	BH3
<b>Site Topography:</b>	FLAT	<b>Borehole Depth (m):</b>	15.00
<b>Weather Condition:</b>	SUNNY	<b>Ground Elevation (m):</b>	-
<b>Coordinates:</b>	14.608211 N , 121.069415 E	<b>Ground Water Level (m):</b>	3.50
<b>Station:</b>	-	<b>Date/Time Measured:</b>	3/14/20
<b>Type of Drilling Machine:</b>	TOHO-7	<b>Drilling Orientation:</b>	VERTICAL
<b>Type of Hammer:</b>	SEMI-AUTOMATIC	<b>Type of Drill Pump:</b>	SUPPLY PUMP

DEPTH (m)	SAMPLING DEPTH (m)	SAMPLE ID	TYPE OF SAMPLING	REC. (%)	RQD (%)	SPT BLOWS		N-VALUE	N-VALUE (Graphical)					CONSISTENCY/ RQD DESCRIPTION	SOIL DESCRIPTION	SOIL SYMBOL	REMARKS	
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*Sizes and type of the samplers used are shown in the Field Boring Log*

<b>Performed by:</b>	 NIEL RICHIE ESTRELLA <i>Senior Driller</i>	 DPWH-BRS ACCREDITED TESTING LABORATORY
<b>Approved by:</b>	 REMEDIOS SOLDAO <i>Head of Engineering Department</i>	1910NCR2QZC5_RFB_L_BH3_0 Page 1 of 1



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**APPENDIX D: SUMMARIES OF TEST RESULTS AND  
PARTICLE SIZE ANALYSIS & ATTERBERG LIMITS  
TEST REPORTS**

## SUMMARY OF BOREHOLE TEST RESULTS

<b>Project Name:</b> CONSTRUCTION OF MULTIPURPOSE BUILDING (FOUR STOREY OFFICERS QUARTERS) CORPS AT PROFESSORS , AFP	<b>Borehole Number:</b> BH1	<b>Sampling Proc./Date:</b> ASTM D1586-08a/ASTM D1587-08; 3/12/20
<b>Project Locations:</b> CAMP AGUINALDO, QUEZON CITY	<b>Borehole Depth (m):</b> 15.00	<b>Date of Testing:</b> 3/13/20
<b>Client:</b> DPWH-QUEZON CITY 2ND DISTRICT ENG'G OFFICE	<b>Coordinates:</b> 14.607889 N , 121.069478 E	
<b>Client's Address:</b> 790 EDSA, DILIMAN, QUEZON CITY	<b>Station:</b> -	
<b>Consultant:</b> -	<b>Project Reference #:</b> 1910NCR2QZC5	
<b>Sampling Locations:</b> CAMP AGUINALDO, QUEZON CITY	<b>Contact Number:</b> -	
<b>Site Topography:</b> FLAT	<b>Weather Condition:</b> SUNNY	

SAMPLE ID	SAMPLE DEPTH (m)	USCS SYMBOL	ATTERBERG LIMITS		MOISTURE CONTENT (%)	PARTICLE SIZE GRADING (CUMULATIVE % PASSING)											HYDROMETER PERFORMED	SPECIFIC GRAVITY	UCT (kN/m <sup>2</sup> )	*TRIAxIAL (kg/cm <sup>2</sup> )	*CONSOLIDATION				
			LL (%)	PI (%)		3" (75.00 mm)	2 1/2" (63.00 mm)	2" (50.00 mm)	1 1/2" (37.50 mm)	1" (25.00 mm)	3/4" (19.00 mm)	3/8" (9.50 mm)	#4 (4.75 mm)	#10 (2.00 mm)	#40 (0.425 mm)	#100 (0.150 mm)					#200 (0.075 mm)	e <sub>s</sub>	C <sub>c</sub>		
SS1	1.05-1.2	SC	34	15	57.4	-	-	-	-	100	86	74	55	44	39	NO	-	-	-	-					
CS1	1.50-3.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
CS2	3.00-4.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
CS3	4.50-6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CS4	6.00-7.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CS5	7.50-9.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CS6	9.00-10.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CS7	10.50-12.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CS8	12.00-13.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CS9	13.50-15.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

<b>Encoded by:</b>  ELLAINE RAMIREZ Office Engineer	<b>Approved by:</b> REMEDIOS SOLDADO Head of Engineering Department	 DPWH-BRS ACCREDITED TESTING LABORATORY 1910NCR2QZC5_RSBHT_BH1_0 Page 1 of 1
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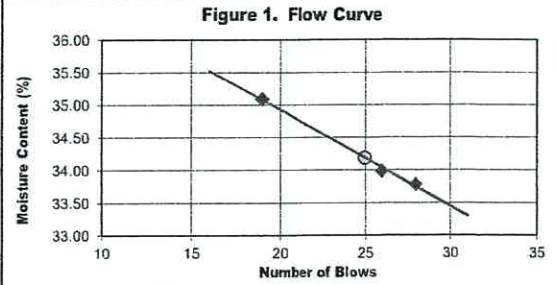


## PARTICLE SIZE ANALYSIS AND ATTERBERG LIMITS (ASTM) TEST REPORT

**Project Name:** CONSTRUCTION OF MULTI-PURPOSE BUILDING (FOUR STOREY OFFICERS QUARTERS) CORPS AT PROFESSORS , AFP  
**Project Location:** CAMP AGUINALDO, QUEZON CITY  
**Client:** DPWH-QUEZON CITY 2ND DISTRICT ENG'G OFFICE **Project Reference #:** 1910NCR2QZC5  
**Client's Address:** 790 EDSA, DILIMAN, QUEZON CITY  
**Consultant:** - **Contact Number:** -  
**Sampling Location:** CAMP AGUINALDO, QUEZON CITY  
**Sampling Procedure/Date:** ASTM D1586-08a/ASTM D1587-08; 3/12/20 **Borehole Number:** BH1  
**Coordinates:** 14.607889 N , 121.069478 E **Sample ID:** SS1  
**Station:** - **Sample Depth (m):** 1.05 - 1.20  
**Date of Testing:** 3/13/20

### LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS - ASTM D4318-10

Trial Number	Multipoint Liquid Limit			Plastic Limit	
	1	2	3	1	2
Can Number	GG	FF	DD	A27	A21
Wet Soil + Can (g)	18.46	18.87	18.01	39.86	38.61
Dry Soil + Can (g)	15.43	15.77	15.07	34.84	33.89
Mass of Can (g)	6.46	6.65	6.69	8.52	8.94
Moisture Loss (g)	3.03	3.10	2.94	5.02	4.72
Mass of Dry Soil (g)	8.97	9.12	8.38	26.32	24.95
Moisture Content (%)	33.78	33.99	35.08	19.07	18.92
Number of Blows	28	26	19	Ave. PL (%)	19
Liquid Limit (%)	34				
Plasticity Index (%)	15				



### PARTICLE SIZE ANALYSIS OF SOILS - ASTM D422-63 (2007)

Mechanical Method							Hydrometer Method	
Sieve #	Particle Diam. (mm)	Cum. Mass Ret. (g)	Cum. % Retained	Cum. % Passing	U95	Coverage Factor (k)	Particle Diam. (mm)	Percent Finer (%)
3"	75.000	0.00	0.00	100.00	-	-	-	-
2 1/2"	63.000	0.00	0.00	100.00	-	-	-	-
2"	50.000	0.00	0.00	100.00	-	-	-	-
1 1/2"	37.500	0.00	0.00	100.00	-	-	-	-
1"	25.000	0.00	0.00	100.00	-	-	-	-
3/4"	19.000	0.00	0.00	100.00	-	-	-	-
3/8"	9.500	0.00	0.00	100.00	-	-	-	-
#4	4.750	7.25	13.57	86.43	±0.21	1.96	-	-
#10	2.000	13.91	26.04	73.96	±0.3	1.96	-	-
#40	0.425	24.12	45.15	54.85	±2.13	1.96	-	-
#100	0.150	29.68	55.56	44.44	±3.01	1.96	-	-
#200	0.075	32.49	60.82	39.18	±3.68	1.96	-	-

\*for uncertainty values, refer to attached Hydrometer Test Report

### MOISTURE CONTENT OF SOILS - ASTM D2216-05

Wet Soil + Can (g):	106.50
Dry Soil + Can (g):	75.82
Mass of Can (g):	22.40
Moisture Loss (g):	30.68
Original Dry Mass (g):	53.42
<b>Moisture Content (%):</b>	<b>57.4</b>

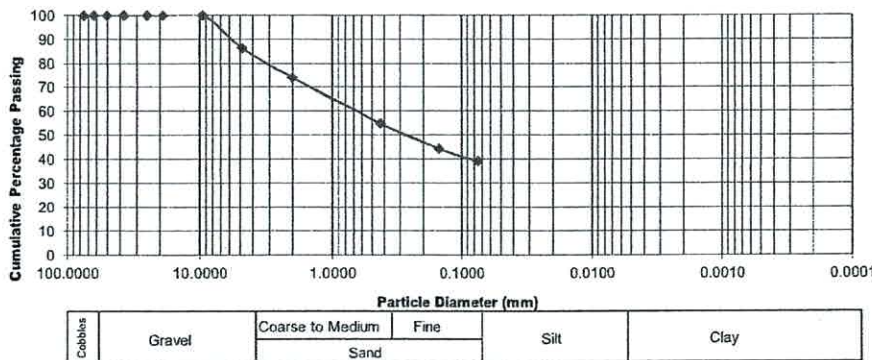
### SUMMARY OF TEST RESULTS

<b>Moisture Content (%):</b>	<b>57.4</b>
U <sub>95</sub>	±0.05
k	1.96
<b>Liquid Limit (%):</b>	<b>34</b>
U <sub>95</sub>	±0.18
k	1.96
<b>Plastic Limit (%):</b>	<b>19</b>
U <sub>95</sub>	±0.06
k	1.96
<b>Plasticity Index (%):</b>	<b>15</b>
<b>Specific Gravity:</b>	-
* for uncertainty value, refer to attached Specific Gravity of Soils Test Report	
<b>USCS Symbol:</b>	<b>SC</b>

### Soil Description:

Dark Brown, Clayey SAND

Figure 2. Particle Size Distribution Curve



\*Special specimen selection, sample description and sample preparation of all tests are presented in the Laboratory Worksheet.

Performed by:

**DANILO DELAN**  
 Senior Laboratory Technician

Approved by:

**REMEDIOS SOLDAO**  
 Head of Engineering Department



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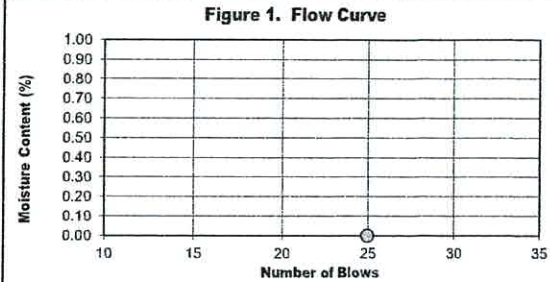


## PARTICLE SIZE ANALYSIS AND ATTERBERG LIMITS (ASTM) TEST REPORT

**Project Name:** CONSTRUCTION OF MULTI-PURPOSE BUILDING (FOUR STOREY OFFICERS QUARTERS) CORPS AT PROFESSORS , AFP  
**Project Location:** CAMP AGUINALDO, QUEZON CITY  
**Client:** DPWH-QUEZON CITY 2ND DISTRICT ENG'G OFFICE **Project Reference #:** 1910NCR2QZC5  
**Client's Address:** 790 EDSA, DILIMAN, QUEZON CITY  
**Consultant:** - **Contact Number:** -  
**Sampling Location:** CAMP AGUINALDO, QUEZON CITY  
**Sampling Procedure/Date:** ASTM D1586-08a/ASTM D1587-08; 3/14/20 **Borehole Number:** BH3  
**Coordinates:** 14.608211 N , 121.069415 E **Sample ID:** SS1  
**Station:** - **Sample Depth (m):** 1.05 - 1.250  
**Date of Testing:** 3/19/20

### LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS - ASTM D4318-10

Trial Number	Multipoint Liquid Limit			Plastic Limit	
	1	2	3	1	2
Can Number	0	0	0	0	0
Wet Soil + Can (g)	0.00	0.00	0.00	0.00	0.00
Dry Soil + Can (g)	0.00	0.00	0.00	0.00	0.00
Mass of Can (g)	0.00	0.00	0.00	0.00	0.00
Moisture Loss (g)	0.00	0.00	0.00	0.00	0.00
Mass of Dry Soil (g)	0.00	0.00	0.00	0.00	0.00
Moisture Content (%)	0.00	0.00	0.00	0.00	0.00
Number of Blows	0	0	0	Ave. PL (%)	NP
<b>Liquid Limit (%)</b>	NL				
<b>Plasticity Index (%)</b>	NP				



### PARTICLE SIZE ANALYSIS OF SOILS - ASTM D422-63 (2007)

Mechanical Method							Hydrometer Method	
Sieve #	Particle Diam. (mm)	Cum. Mass Ret. (g)	Cum. % Retained	Cum. % Passing	U <sub>95</sub>	Coverage Factor (k)	Particle Diam. (mm)	Percent Finer (%)
3"	75.000	0.00	0.00	100.00	-	-	-	-
2 1/2"	63.000	0.00	0.00	100.00	-	-	-	-
2"	50.000	0.00	0.00	100.00	-	-	-	-
1 1/2"	37.500	0.00	0.00	100.00	-	-	-	-
1"	25.000	0.00	0.00	100.00	-	-	-	-
3/4"	19.000	0.00	0.00	100.00	-	-	-	-
3/8"	9.500	11.03	13.56	86.44	±0.02	1.96	-	-
#4	4.750	18.14	22.30	77.70	±0.14	1.96	-	-
#10	2.000	29.42	36.16	63.84	±0.2	1.96	-	-
#40	0.425	47.44	58.31	41.69	±1.4	1.96	-	-
#100	0.150	56.96	70.01	29.99	±1.98	1.96	-	-
#200	0.075	61.22	75.25	24.75	±2.42	1.96	-	-

\*for uncertainty values, refer to attached Hydrometer Test Report

### MOISTURE CONTENT OF SOILS - ASTM D2216-05

Wet Soil + Can (g):	145.23
Dry Soil + Can (g):	100.42
Mass of Can (g):	19.06
Moisture Loss (g):	44.81
Original Dry Mass (g):	81.36
<b>Moisture Content (%):</b>	<b>55.1</b>

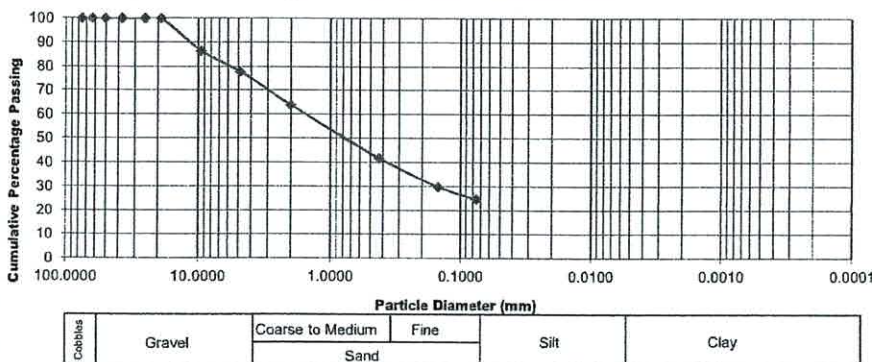
### SUMMARY OF TEST RESULTS

<b>Moisture Content (%):</b>	<b>55.1</b>
	U <sub>95</sub> ±0.03
	k 1.96
<b>Liquid Limit (%):</b>	<b>NL</b>
	U <sub>95</sub> -
	k -
<b>Plastic Limit (%):</b>	<b>NP</b>
	U <sub>95</sub> -
	k -
<b>Plasticity Index (%):</b>	<b>NP</b>
<b>Specific Gravity:</b>	-
* for uncertainty value, refer to attached Specific Gravity of Soils Test Report	
<b>USCS Symbol:</b>	<b>SM</b>

#### Soil Description:

Darl Brown, Silty SAND with Gravel

Figure 2. Particle Size Distribution Curve



\*Special specimen selection, sample description and sample preparation of all tests are presented in the Laboratory Worksheet.

Performed by:

**DANILO DELAN**  
 Senior Laboratory Technician

Approved by:

**REMEDIOS SOLDAO**  
 Head of Engineering Department



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