

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

CENTRAL OFFICE

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SUBJECT: Schedule of Minimum Testing Requirements Governing Items of Work of the DPWH Standard Specifications for Public Works Structures (Buildings, Ports and Harbors, Flood Control and Drainage Structures and Water Supply Systems), Volume III, 2019 Edition

In order to ensure the highest quality of projects being implemented by the Department and to strengthen the implementation of the Quality Control of the Contractors and Quality Assurance Program of the Department, the attached Schedule of Minimum Testing Requirements Governing Items of Work of the DPWH Standard Specifications for Public Works Structures (Buildings, Ports and Harbors, Flood Control and Drainage Structures and Water Supply Systems), Volume III, 2019 Edition is hereby prescribed as ready reference and guidance for DPWH Engineers, Consultants and Contractors.

This Order shall take effect immediately.

MARK A. VILLAR

Secretary

14.1.2 FET/RGT

Department of Public Works and Highways
Office of the Secretary

WIN1U02145

Schedule of Minimum Testing Requirements Governing Items of Work of the DPWH Standard Specifications for Public Works Structures (Buildings, Ports and Harbors, Flood Control and Drainage Structures and Water Supply Systems), Volume III, 2019 Edition

Introduction

An established policy of the Department is that all materials shall be tested and approved in accordance with the Standard Specifications, prior to incorporation into the work. In order that this policy can be fully implemented, the schedule of minimum requirements for testing materials in construction projects has been prepared as a guide and reference for the Engineers.

The Minimum Testing Requirements (MTR) is prepared to specify the type and frequency of tests to be undertaken for materials and products contained in the DPWH Standard Specifications. The implementation of the MTR shall strengthen the Quality Control of the Contractors and the Quality Assurance Program of the Department.

Under the Department of Public Works and Highways (DPWH), the first MTR was released on 1988. This was based on the 1959 Edition of the Materials Manual of the Bureau of Public Works. The 1988 MTR covers the materials and products in various Items of Work in the DPWH Standard Specifications for Highways, Bridges and Airports, Volume II. Succeeding the 1988 MTR is the 2019 MTR, which is based on the 2019 Edition of the DPWH Standard Specifications for Public Works Structures, Volume III. It was carefully drafted by the Bureau of Research and Standards (BRS), the research arm of the DPWH, and was deliberately circulated to and reviewed by representatives of different Bureaus, Unified Project Management Offices and Quality Assurance and Hydrology Division of various Regional Offices of this Department.

The MTR is issued together with the list of Quality Tests (**Annex A**) and list of Standard Test Methods (**Annex B**). In Annex A, the required Quality Tests in the MTR are specified per material. On the other hand, Standard Test Methods and reference Standard Specifications such as the American Society for Testing and Materials (ASTM), American Association of State Highway and Transportation Officials (AASHTO), International Organization for Standardization (ISO), and Philippine National Standards (PNS) are enumerated in Annex B. The listed reference standards' designation/code comprises its year/edition in which the values, specification or requirements are being used or referred from. Nevertheless, some standards will follow the latest year/edition when the Annexes are being prepared.

For easy reference purposes, materials in the MTR are presented per Item of Work. Composite materials are broken down into its basic components whenever separate/individual testing is applicable or required. Some materials are also repeatedly presented per Item where it is used for quick reference.

Inasmuch as new and improved testing methods and specifications are constantly being developed, it is contemplated that MTR will be revised from time to time.

Further, existing issuances relative to Quality Control and Quality Assurance shall continue to be enforced.

Guidelines on the Implementation of the MTR

1. Quality Tests

Quality Tests includes the chemical and/or physical tests required to be conducted on a material or product in accordance with the DPWH Standard Specifications. Quality tests are listed down in Annex A - Quality Tests on Construction Materials, with its corresponding Standard Test Method shown in Annex B – Reference Standards.

As much as possible, all quality tests are required to be satisfied. Tests shall be done based from the Frequency specified in the MTR. Where, the number of times the required tests must be done relative to the quantity specified in the MTR per size, type, layer, batch, lot, shipment or source.

For cases where not all of the required tests in quality test list can be performed, the Original Mill Certificate (OMC) will serve as supplemental document.

2. Original Mill Certificate (OMC)

OMC is a quality assurance document generated by the raw material manufacturer and provided with the material to intermediate suppliers and ultimately to a finished goods manufacturer. It certifies the materials' compliance with the standard specification such as ASTM, AASHTO, PNS, ACI, etc.

The OMC per batch production must be supplied by the Supplier/Contractor. For cases where original product Authentication Certificate (Red Ribbon) is not possible to obtain, supplier may opt to provide an Authentication Certificate issued by the Department of Foreign Affairs (DFA). For multiple copies of such document, a Certified True Copy will also be accepted.

OMC is a supplemental document for materials where not all of its required tests can be satisfied or performed.

3. Other Than Test

These are additional requirements that must be submitted/produced/accomplished by the Contractor as part of its Quality Control measure such as Welding Report, Inspection Report of Casting, Geotechnical Investigation Report, or Concrete Monitoring Record. The attached standard format for these documents should be strictly complied.

4. Engineer's Certificate (EC)

EC is part of DPWH's Quality Assurance and shall be issued provided that the specifications of the material/product satisfied/passed the requirements stipulated in the DPWH Standard Specifications.

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It is also an additional requirement if the DPWH Implementing Office (IO) or the third party has no capability to perform such test. The EC shall be prepared by the DPWH Materials Engineer or Consultant's Materials Engineer in a standard format approved by the DPWH IO. When signed "as received" by the DPWH Project Engineer or Consultant's Resident Engineer and DPWH Materials Engineer or Consultant's Quality Assurance Engineer, EC is a QA/QC record.

If in doubt, DPWH may have the option to conduct tests prior to issuance of the EC.

Definition of Terms

Test Required – Mandatory tests to be done on the materials prior to its incorporation/use in the implementation of Item of Work.

Contractor's Quality Control (QC) – All those activities such as materials handling and construction procedures, calibration and maintenance of equipment, production process control, and all sampling, testing, and inspection undertaken by the Contractor.

DPWH Quality Assurance – All Quality Assurance inspections, sampling and testing undertaken for and on behalf of the DPWH Implementing Office (IO) by the Project Engineer whenever necessary.

Frequency – The number of times the required tests must be done relative to the quantity specified in the MTR per size, type, layer, batch, lot, shipment or source.

Lot size – The lot size as stated in the MTR refers to the quantity of an item ordered for delivery on a specific date or manufactured in a single production run.

Shipment – This refers to an amount of a particular product/material that is sent to another country on a ship, train, airplane, or other vehicle.

Welding Report – It is an additional document required when welding works are conducted. The report shall be in accordance with the guidelines of the American Welding Society (AWS) and certified by an accredited welder.

Inspection Report of Casting – An evaluation report on activities during concrete casting to be checked by the DPWH Project Engineer or Project Inspector.

Concrete Monitoring Record – This document consists of pouring permit and report on concreting works per pouring day of a structure.

Geotechnical Investigation Report – It is a report that presents site-specific geotechnical data and consists of three major components (Background Information, Scope of Work and Data Presentation).



Sec. 6 Handle and		CONTRACTOR'S QU	JALITY CONTROL	DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	or based on ELEGNENCA Compaction	OTHER THAN TEST	OTHER REQUIREMENTS
	(ch)	PART B - OTHER GENERAL REQUIREM	IENTS	
TEM B.6 - INSTALLATION OF	ODA RECOGNITION PLATE	For every 1,000 m² of each laver of		
Recognition Plate	None TEST REQUIRED	None	OTHER THAN TEST	Engineer's Certificate
TEM B.8 - TRAFFIC MANAGE	MENT	CONTRACTOR'S Q	JALITY CONTROL	DPWH QUALITY ASSURANCE
Concrete Barrier, Bollards, Plastic Barrier, Steel Barricades, Construction Fence	(Buildings, Ports and Harbor	TONS FOR PUBLIC WORKS STRUC , Flood Control and Drainage Struc Noue	I .	1
TEM B.15 - DETOUR/ ACCESS	S ROAD	I	MINCILENCOL MODA OF THE	
Embankment Materials ALOBKE V	11 - Compaction Test	One (1) for every 3,000 m ³ per source or fraction thereof	mum Testing Requireme	nts



		CONTRACTOR'S QU	OTHER REQUIREMENTS	
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY OTHER THAN TEST		
	1 - Field Density Test (FDT)	For every 1,000 m² of each layer of compacted fill or fraction thereof at least one (1) group of three (3) in-situ density tests. The layers shall be placed not exceeding 200 mm in loose measurement		
Pipe Culverts and Storm Drain		or based on the result of compaction trials.		
Concrete Pipes	1 - Quality Test	IOME FOR EACH OWNER SERVICE	Inspection Report of Casting	Inspection Report for each size of not more than 25 pipes cast in the field
STORY WEEKS WE	T HICHMAN	One (1) - set consisting of three (3) concrete cylinder samples for not more than 25 pipes cast in the field		





DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Abrasion Test

Minimum Testing Requirements

	T - Bespitest required	CONTRACTOR'S QU	DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT		Ove (1) to FREQUENCY be some o	OTHER THAN TEST	OTHER REQUIREMENTS
- Concrete	1 - Compressive Strength Test	One (1) - set of three (3) concrete cylinder samples for every 75 m ³ of each class or fraction thereof placed each day		
a. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof	OTHER THAN TEST	OTHER REQUIREMENTS
b. Fine Aggregate	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof	JALITY CONTROL	DPWH QUALITY ASSURANC
Materials	1 - Quality Test (Bulldings, Ports and Harl		1)
c. Coarse Aggregate Materials	1 - Grading Test			110
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		
d. Water DEBVKIN	1 - Quality Test	One (1) per source	mum Tacting Populisme	ate.





		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
e. Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof		
f. Mortar for Joint	1 - Compressive Strength Test	One (1) set per pouring day		
Base Course Materials	1 - Grading Test 1 - Plasticity Test	One (1) for every 300 m³ per source or fraction thereof	- For grant	
te was a second as a second	 Grading Test Plasticity Test Abrasion Test California Bearing Ratio (CBR) 	One (1) for every 3,000 m ³ per source or fraction thereof		
	1 - Compaction Test	One (1) for every 1,500 m ³ per source or fraction thereof	Difference of the Carte of the	40
of the contract of the contrac		For every layer of 200 mm of compacted depth based on the result of laboratory compaction tests on the same materials: At least one (1) group of three (3) in-situ density tests for each 1,000 m ² or fraction thereof.		



	CIPIES OF LIPSCHOP THE CONTRACTOR'S QUAR		UALITY CONTROL	DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	Gue (1) FREQUENCY (2) course	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM B.16 - RECOGNITION P	LATE/PROJECT MARKER	One (1) - set Lonsisting of three (3 concrete cylinder samples for not mon the Period of the Period		
Recognition Plate/ Marker	None	None same yearnisments:		Engineer's Certificate
ITEM B.18 - CRANEWAY	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Timber	1 - Quality Test	One (1) per lot for each type	JALITY CONTROL	Engineer's Certificate
Steel/Metal	1 - Quality Test	One (1) per lot for each type/size	Welding Report	Engineer's Certificate
Bolts, Nuts and Washers	1 - Quality Test BOLE SUG HSLDO	One (1) per lot per shipment for each type/size	TURES, VOLUME III, 2019 EDITI ctures, and Water Supply System	Engineer's Certificate
Pipe Topped with Soil/Gravel	SCHEDNIS OF MARKEN	A TESTING REQUIREMENTS COVER	HING THEMS OF WORK OF THE	
Pipe Culverts and Storm Drain				
Concrete Pipes DEBUBLIA	11 - Quality Test	One (1) for every 100 pcs.	Inspection Report of Casting	Inspection Report for each size of n more than 25 pipes cast in the field



		CONTRACTOR'S QUAL	DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
		Alternative Requirements:		
		One (1) - set consisting of three (3) concrete cylinder samples for not more than 25 pipes cast in the field		
- Concrete	1 - Compressive Strength Test	One (1) - set of three (3) concrete	e la compania	
	25, 51 7, 187 5	cylinder samples for every 75 m³ of each class or fraction thereof placed each day		
a. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof	Tall of the second of the second	
b. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m³ per source or fraction thereof		
	1 - Grading Test	One (1) for every 75 m³ or fraction thereof	oci ya ya ngantasa be	100





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Minimum Testing Requirements

SCHEDULE OF MINIMUM TESTING REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES, VOLUME III, 2019 EDITION (Buildings, Ports and Harbors, Flood Control and Drainage Structures, and Water Supply Systems)

	11 - Grading Test	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT	TEST REQUIRED	or based or ELEGNENCA compaction	OTHER THAN TEST	OTHER REQUIREMENTS	
· · · · · · · · · · · · · · · · · · ·	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof			
d. Water	1 - Quality Test	One (1) per source			
e. Reinforcing Steel	1 - Quality Test REONINED	One (1) for every 10,000 kg for each size/source or fraction thereof	OTHER THAN TEST	DPWH QUALITY ASSURANCE OTHER REQUIREMENTS	
f. Mortar for Joint	1 - Compressive Strength Test	One (1) set per pouring day			
2. Embankment Materials	1 - Grading Test 1 - Plasticity Test 1 - Compaction Test 1 - Organic Content 1 - California Bearing Ratio (CBR)	One (1) for every 3,000 m ³ per source or fraction thereof) ()	



Minimum Testing Requirements



		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
	1 - Field Density Test (FDT)	For every 1,000 m² of each layer of compacted fill or fraction thereof at least one (1) group of three (3) in-situ density tests. The layers shall be placed not exceeding 200 mm in loose measurement or based on the result of compaction trials.		
3. Subgrade in Common Excavation	1 - Grading Test 1 - Plasticity Test 1 - Compaction Test 1 - Organic Content 1 - California Bearing Ratio (CBR)	One (1) for every 3,000 m³ per source or fraction thereof		
	1 - Field Density Test (FDT)	For every 1,000 m ² per layer of compacted fill or fraction thereof at least one (1) group of three (3) in-situ density tests. The layers shall be placed not exceeding 200 mm in loose measurement or based on the result of compaction trials.		





	The second secon	CONTRACTOR'S QU	ALITY CONTROL	DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
ITEM B.19 - GEOTECHNICAL I	INVESTIGATION	One (1) for every 75 m ² or haction			
In Situ Soil	Geotechnical Investigation Report (for confirmatory)	One (1) for every structure			
ITEM B.20 - TEMPORARY FEN	CE TEST REQUIRED	CONTRACTOR S QU	OTHER THAN TEST	OTHER REQUIREMENTS	
Barbed Wire	1 - Quality Test Original Mill Certificate	One (1) per lot for each size	INLEIA COMERCIE	Engineer's Certificate	
Chain Link Fence Fabric	Original Mill Certificate	One (1) per lot for each size		1	
Concrete Post	SUMBER OF STREET				
1. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof			
2. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof	mum Jesting Requireme	nts	



		CONTRACTOR'S QUALI	TY CONTROL	OTHER REQUIREMENTS
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	
·	1 - Quality Test	One (1) for every 1,500 m³ per source or fraction thereof		
3. Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof		
Materials	1 - Quality Test	One (1) for every 1,500 m³ per source or fraction thereof		
4. Water	1 - Quality Test	One (1) per source		
Steel Post	1 - Quality Test	One (1) per lot per shipment for each size	Object of Policy 1 does	Engineer's Certificate
leinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof		
Bolts, Nuts and Vashers	1 - Quality Test	One (1) per lot per shipment for each type/size	posti z bogodna — "us	





		CONTRACTOR'S QU	DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT	TEST REQUIRED	TREQUENCY COLUMN	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM B.21 - TEMPORARY BRI	D GE - Slump est	One (i) per truck	Concrete Menitoring Record	
Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof		
Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof	OTHER THAN TEST	OTHER REQUIREMENTS
	1 - Quality Test	One (1) for every 1,500 m³ per source or fraction thereof	,	
Coarse Aggregate Materials	1 - Grading Test Bours and Harpo DBMH STANDARD SPECIFIC	One (1) for every 75 m³ or fraction thereof	TURES, VOLUME III, 2019 EDITI))
	1 - Quality Test	One (1) for every 1,500 m³ per source or fraction thereof		
Water	1 - Quality Test	One (1) per source		
Chemical Admixture	1 - Quality Test	One (1) per lot	mum Testing Requiremen	ots
Curing Compound	1 - Quality Test	One (1) per lot		





MATERIAL OR PRODUCT		CONTRACTOR'S QU	DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Expansion Joint Materials	1 - Quality Test	One (1) per lot for each thickness of filler		
Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	
	1 - Compressive Strength	One (1) - set of three (3) concrete cylinder samples for every 75 m ³ of each class or fraction thereof placed each day		Extract to the control of
Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof		i.a
Polyvinyl Chloride (PVC) Pipe	1 - Quality Test Original Mill Certificate	One (1) per lot for each type/size		Engineer's Certificate
Galvanized Iron Pipe	1 - Quality Test Original Mill Certificate	One (1) per lot for each type/size		Engineer's Certificate
Structural Metal	1 - Quality Test	One (1) per lot for each type/size		





MATERIAL OR PRODUCT	TT = Cinelity 16st	CONTRACTOR'S QU	JALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Steel Shells	1 - Quality Test	One (1) per lot of each pile type of material used	Welding Report	
Steel Pipes	1 - Quality Test	One (1) per lot per shipment for each size	Welding Report	
Steel H-Piles	1 - Quality Test	One (1) per lot per shipment for each size	Welding Report	OTHER REQUIREMENTS
Sheet Piles	1 - Quality Test	One (1) per lot for each type/sized used	Welding Report	DPWH QUALITY ASSURANCE
Structural Steel	1 - Quality Test			1
Metal Beam 1. Flex Beam	1 - Quality Test		JING ITEMS OF WORK OF THE	
2. End Piece	1 - Quality Test	One (1) per lot		
Bolts, Nuts and Washers	1 - Quality Test	One (1) per lot per shipment for each type/size	mum Testing Requireme	nřs



MATERIAL OR PRODUCT		CONTRACTOR'S QU	TRACTOR'S QUALITY CONTROL DPWH QUALITY	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Steel Post	1 - Quality Test	One (1) per lot for each type/size	Menger Her.	
Timber Post	1 - Quality Test	One (1) per lot for each type		
Preservatives	1 - Quality Test Original Mill Certificate	One (1) per lot for each type		Engineer's Certificate
Lumber	1 - Quality Test	One (1) per lot	#F1, 7 e	Engineer's Certificate
Paint 1. 20-L Cans	1 - Quality Test	One (1) for every 100 cans or fraction thereof		
2. 4-L Cans	1 - Quality Test	One (1) for every 100 cans or fraction thereof		,
ITEM B.26 - REQUIREMENTS	AND STANDARDS FOR SERVICES O	F PERSONS WITH DISABILITY (PWD) A	ND AGED PERSON	
Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof		T ut





MATERIAL OR PRODUCT	d. Quality Test	CONTRACTOR'S QU	JALITY CONTROL	OTHER REQUIREMENTS
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	
Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
1 - Quality Test	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	OTHER THAN TEST	OTHER REQUIREMENTS
Coarse OK BRODICE Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		DPWH QUALITY ASSURANCE
1 - Quality Test	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		
Water	1 - Quality Test	One (1) per source	TURES, VOLUME III, 2019 EDITI turos, and Water Supply System	DM
Concrete	1 - Slump Test DIME OF MIMI	One (1) per truck I BENEFILE COALS	Concrete Monitoring Record	
	1 - Compressive Strength	One (1) - set of three (3) concrete cylinder samples for every 75 m3 of each class or fraction thereof placed each day		nts





MATERIAL OR PRODUCT		CONTRACTOR'S Q	DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Mortar for Joint	1 - Compressive Strength Test	One (1) set per pouring day		
Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof		
Wire and Wire Mesh	1 - Quality Test	One (1) per lot for each size		
Epoxy Coated Steel Bars	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof		
Expansion Joint Materials	1 - Quality Test	One (1) per lot for each thickness of filler		
Timber	1 - Quality Test	One (1) per lot for each type of material used		
Preservatives	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	e some stage of the	Engineer's Certificate
Metal	1 - Quality Test	One (1) per lot for each type/size used	Welding Report	





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Minimum Testing Requirements

MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL DPWH QUALITY		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Plastic Supplemental Supplement	1 - Quality Test	One (1) per lot for each type/size used		Engineer's Certificate
Concrete Hollow Blocks and Louvers	1 - Quality Test	One (1) for every 10,000 units or fraction thereof		rEngineer's Cerbicato
	TEST REQUIRED	Two (2) per lot of more than 10,000 and less than 100,000		OTHER REQUIREMENTS
	For lots of more than 100,000 units - One (1) per 50,000 units		DPWH QUALITY ASSURANCE	
Autoclaved Aerated Concrete (AAC) blocks	1 - Quality Test	uicicoi	TURES, VOLUME III, 2019 EDITI tures, and Water Supply System	E)
Paint 1. 20-L Cans	1 - Quality Test		NING ITEMS OF WORK OF THE	
2. 4-L Cans MOBKE V DELYBLE	1 - Quality Test	One (1) for every 100 cans or fraction thereof	mum Testing Requireme	nts
Prepainted Metal Sheets	1 - Total Thickness	One (1) per lot per thickness		





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		CONTRACTOR'S QUALITY CONTROL DPWH QUALITY ASSURAN		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS		
Hardware/Fasteners	None	None		Engineer's Certificate		
Electrical Cast Iron Soil Pipes and Fittings	1 - Quality Test	One per lot for each size		Engineer's Certificate		
Water Supply Pipes and Fittings	None	None		Engineer's Certificate		
Approved Alternate Pipes and Fittings	None	None		Engineer's Certificate		
Special Plumbing Fixtures	None	None	er i land let iv land	Engineer's Certificate		
Fire Protection System	1 - Pressure Test	One (1) per lot	N. KI	Engineer's Certificate		
Hollow Steel Doors	None	None		Engineer's Certificate		
Flush Doors	None	None		Engineer's Certificate		
Grille Doors	None	None	The state of the s	Engineer's Certificate		





MATERIAL OR PRODUCT	1 - Slump Test	CONTRACTOR'S QU	ALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Fire Rated Exit Doors	1- Fire Test Original Mill Certificate	One (1) per lot for each size		Engineer's Certificate
Steel Louver Door	None	None		Engineer's Certificate
Anchors and Fasteners	None	None	OTHER THAN TEST	Engineer's Certificate
Aluminum	1 - Quality Test Original Mill Certificate (BRIIGINGS BOLES SUG MELD	One (1) sample from each end of each parent coil, or parent plate, but no more than one sample per 1000 kg of sheet or 2000 kg of plate, or part thereof, in a lot	JALITY CONTROL	Engineer's Certificate DEMH ONVILLA VERNEVALCE
Steel Doors	None WH STANDARD SPECIED	110.10		Engineer's Certificate
Polyvinyl Doors	None	None		Engineer's Certificate
Glass and Glazing	None	None		Engineer's Certificate
Roll-up Doors	None BORTO	None William	mum Testing Requireme	Engineer's Certificate
Door Kick Plates	None	None	*	Engineer's Certificate





MATERIAL OR PRODUCT		CONTRACTOR'S QU	JALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY OTHER THAN TEST	OTHER REQUIREMENTS	
Moulding	None	None		Engineer's Certificate
Modular Partition	None	None		Engineer's Certificate
Hardwares and Fasteners	None	None		Engineer's Certificate
Electric Elevator	1 - Performance/Acceptance Test	One (1) per car for each type		Engineer's Certificate
Railings 1. Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	
	1 - Compressive Strength	One (1) - set of three (3) concrete cylinder samples for every 75 m ³ of each class or fraction thereof placed each day		k-
2. Forms and Falseworks				
a. Timber	1 - Quality Test	One (1) per lot for each type of material used	La regional de la constant	V ports







MATERIAL OR PRODUCT	Onginal Mili Certificate	DOUBLE CONTRACTOR'S QU	JALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	persol FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
b. Preservatives	1 - Quality Test Original Mill Certificate	One (1) per lot for each type		Engineer's Certificate
c. Metal	1 - Quality Test	One (1) per lot for each type/size		
d. Plastic	1 - Quality Test	One (1) per lot for each type/size	OTHER THAN TEST	OTHER REQUIREMENTS
3. Stone	1 - Specific Gravity 1 - Abrasion Test 1 - Absorption Test	One (1) for every 3,000 m³ per source or fraction thereof	IALITY CONTROL	Engineer's Certificate DBMH ONVILLA VERNEVNCE
4. Metal	1 - Quality Test	One (1) per lot for each type/size used	Welding Report	2)
5. Stainless Steel (Non-Ferrous Metal)	1 - Quality Test ADVKD 2BECILIO	One (1) per lot	TURES, VOLUME III, 2019 EDITI	Engineer's Certificate
6. Glass and Glazing	None	None		Engineer's Certificate
DEPARTM WORKS A	1 - Quality Test Original Mill Certificate	One (1) sample from each end of each parent coil, or parent plate, but no more than one sample per 1000 kg of sheet or 2000 kg of plate, or part thereof, in a lot	mum Testing Requireme	Engineer's Certificate





MATERIAL OR PRODUCT	1 - 1, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CONTRACTOR'S QU	CONTRACTOR'S QUALITY CONTROL	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
8. Paint	V 1502V 102	Description of a rechiptoring		
20-L Cans	1 - Quality Test	One (1) for every 100 cans or fraction thereof		
4-L Cans	1 - Quality Test	One (1) for every 100 cans or fraction thereof		
Aluminum	1 - Quality Test Original Mill Certificate	One (1) sample from each end of each parent coil, or parent plate, but no more than one sample per 1000 kg of sheet or 2000 kg of plate, or part thereof, in a lot		Engineer's Certificate
Reflective Sheeting/Signages	1 - Quality Test	One (1) per lot for each type	Restaurant and a construction	Engineer's Certificate
Post and Frames	1 - Quality Test	One (1) per lot for each type		5 40 40 50 50 50 50 50 50 50 50 50 50 50 50 50
Bracket Railing/Stiffener	1 - Quality Test	One (1) per lot for each type		





DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Minimum Testing Requirements

SCHEDULE OF MINIMUM TESTING REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES, VOLUME III, 2019 EDITION (Buildings, Ports and Harbors, Flood Control and Drainage Structures, and Water Supply Systems)

MATERIAL OR PRODUCT	11 - Plasticity Test	Lection thereon CONTRACTOR'S QUALI	DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Reflectorized Paint 20-L Cans	1 - Quality Test	One (1) for every 100 cans or fraction thereof		Engineer's Certificate
4-L Cans	1 - Quality Test	One (1) for every 100 cans or fraction thereof	OTHER THAN TEST	OTHER REQUIREMENTS
Adhesive	None	None	TTY CONTROL	Engineer's Certificate

PART C - EARTHWORK

ITEM 800 - CLEARING AND GRUBBING

ITEM 801 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS

					IF - ' I- C L'C L-
Area Cleared and Grubbed	None	None			Engineer's Certificate
					1
Structures and Obstructions					
	AND MIGHWAYS	li i			
Removed	A DIES AT PROPERTY NAMED		TATIFIE	Bunni resund kedancin	111.5
	and the second of the second o	li li	Market and the second of	and a control of the	





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
ITEM 802 - EXCAVATION					
Waste Excavated Materials	Grading Test Plasticity Test Organic Content	One (1) for every 3,000 m³ per source or fraction thereof		Engineer's Certificate	
Excavated Materials to be Incorporated into the Works	1 - Grading Test 1 - Plasticity Test 1 - Compaction Test 1 - Organic Content 1 - California Bearing Ratio (CBR)	One (1) for every 3,000 m³ per source or fraction thereof	1 3 4 4 7 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	1 - Field Density Test (FDT)	For every 1,000 m ² of each layer of compacted fill or fraction thereof at least one (1) group of three (3) in-situ density tests. The layers shall be placed not exceeding 200 mm in loose measurement or based on the result of compaction			
	- OF - 12 'Ye	trials.		g long	





MATERIAL OR PRODUCT	1 - Compaction Test 1 - Organizett REGNIRED (CBR)	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
		FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
ITEM 803 - STRUCTURE EXCA	T - Grading Test	One (1) for every 3,000 m² per source or			
Waste excavated materials	1 - Grading Test 1 - Plasticity Test 1 - Organic Content	One (1) for every 3,000 m³ per source or fraction thereof	OTHER THAN TEST	OTHER REQUIREMENTS	
Excavated materials to be incorporated into the works	1 - Grading Test 1 - Plasticity Test 1 - Compaction Test 1 - Organic Content 1- California Bearing Ratio (CBR)	One (1) for every 3,000 m³ per source or fraction thereof	JALITY CONTROL	DPWH QUALITY ASSURANCE	
	1 - Field Density Test CEDECLE (FDT) HEDDIE OF MINIM	For every 1,000 m² of each layer of compacted fill or fraction thereof at least one (1) group of three (3) in-situ density tests. The layers shall be placed not exceeding 200 mm in loose measurement or based on the result of compaction	IING ITEMS OF WORK OF THE FURES, VOLUME III, 2019 EDITI		



MATERIAL OR PRODUCT	TEST REQUIRED	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
		FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
TEM 804 - EMBANKMENT				icentorias socialisticas	
Embankment Materials	1 - Grading Test 1 - Plasticity Test 1 - Compaction Test 1 - Organic Content 1 - California Bearing Ratio (CBR)	One (1) for every 3,000 m³ per source or fraction thereof	TEACTER TO		
	1 - Field Density Test (FDT)	For every 1,000 m² of each layer of compacted fill or fraction thereof at least one (1) group of three (3) in-situ density tests. The layers shall be placed not exceeding 200 mm in loose measurement or based on the result of compaction trials.			
TEM 805 - DREDGING	41- 617/ct A+2 3				
redged Waste Materials	1 - Grading Test 1 - Organic Content	One (1) for every 3,000 m³ per source or fraction thereof	ana gyvera delegación casses	Engineer's Certificate	





DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Minimum Testing Requirements

	1 Sulfate Content Lost	fraction thereof		
MATERIAL OR PRODUCT	1 - Chlonde Content Test	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	exceeding 200 mm in loose measurement or based or ELEGNENCA of compactor	OTHER THAN TEST	OTHER REQUIREMENTS
Excavated materials to be	1 - Grading Test	One (1) for every 3,000 m ³ per source or		
incorporated into the works	1 - Plasticity Test	fraction thoroof		
personal production of the second of the sec	1 - Compaction Test	compacted fill or fraction thereof at least		
	1 - Organic Content	For every 1,000 mi of each layer o		
	1- California Bearing Ratio (CBR)			
		FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS -
	1 - Field Density Test	For every 1,000 m ² of each layer of	I C	
	(FDT)	compacted fill or fraction thereof at least		
		one (1) group of three (3) in-situ density		
		tests. The layers shall be placed not		
		exceeding 200 mm in loose measurement		
	(Buildings, Ports and Harbon	or based on the result of compaction		
	DPWH STANDARD SPECIFICA	trials'S FOR PUBLIC WORKS STRUC	TURES, VOLUME III, 2019 EDITIO	
ITEM 806 - RECLAMATION	SCHEDULE OF MINIMUN	TESTING REQUIREMENTS GOVER	NING TIEMS OF WORK OF THE	
TIEM 800 - RECEAMATION		1		
Fill Material	1 - Grading Test	One (1) for every 3,000 m ³ per source or		
	1 - Plasticity Test	fraction thereof		
	1 Compaction rest	MIN	mum Testing Requiremen	
	1 - Organic Content			





MATERIAL OR PRODUCT	f 1 1	CONTRACTOR'S QUA	CONTRACTOR'S QUALITY CONTROL	
	T TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
	1 - Field Density Test (FDT)	For every 1,000 m² of each layer of compacted fill or fraction thereof at least one (1) group of three (3) in-situ density tests. The layers shall be placed not exceeding 200 mm in loose measurement or based on the result of compaction trials.		
	- Chloride Content Test - Sulfate Content Test	One (1) for every 3,000 m ³ per source or fraction thereof		
ITEM 807 - SITE DEVELOP	MENT PLAN	C. AND MG FOR MICH OF PROPERTY AND CORP.	ettan (t. 1akvi, Terus Sefinist ka in vit. iska) /
Softscape 1. Trees	None	None		Engineer's Certificate
2. Shrubs	None	None		Engineer's Certificate
3. Grass	None	None		Engineer's Certificate







MATERIAL OR PRODUCT	TEST REQUIRED	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
		FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Hardscape 1. Fountains	Noue I - Grading Test	None One (1) for every 75 m) or fraction		Engineer's Certificate
2. Benches	None	None		Engineer's Certificate
3. Gazebos	None	None EREQUENCY	OTHER THAM TEST	Engineer's Certificate
Garden Soil	None	Noue CONTRACTOR'S QUI	ALITY CONTROL	Engineer's Certificate
Aquatic Plant	None	None		Engineer's Certificate
Aquatic Animal	Noue Buildings, Ports and Harb	Noue Tod Control and Drainage Struct	ures, and Water Supply Systen	Engineer's Certificate
Paver Blocks	1 - Compressive Strength Test	One (1) set of three (3) evlinder samples/	ING ITEMS OF WORK OF THE UREE, YOLUME III, 2019 EDIT	104
1. Cement	1 - Quality Test	One (1) for every 2,000 bags per shipment or fraction thereof		
Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof	num Testing Requirem	ents





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
	1 - Quality Test	One (1) for every 1,500 m³ per source or fraction thereof			
Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof			
	1 - Quality Test	One (1) for every 1,500 m³ per source or fraction thereof	Tax Tes 5	Kain also 1984 and also the second	
4. Water	1 - Quality Test	One (1) per source	and the state of t		
Curbs	i namada esperimentales Tanta Parada de Diales	Light rappressage species of a		S8	
1. Concrete	1 - Compressive Strength Test	One (1) - set of three (3) concrete (cylinder samples from each 75 m³ of each class or fraction thereof placed each day	Concrete Monitoring Record		
Expansion Joint Materials	1 - Quality Test	One (1) per lot for each thickness of filler	and the first seems		





DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Minimum Testing Requirements

MATERIAL OR PRODUCT	TEST REQUIRED	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
		FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
3. Mortar for Joint (Cement, Fine Aggregate and Water)	1 - Compressive Strength Test	One (1) set per pouring day	Concrete Monitorina Record	
a. Cement	1 - Quality Test	One (1) for every 2,000 bags per shipment or fraction thereof	OTHER THAN TEST	OTHER REQUIREMENTS
b. Fine Aggregate	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof	ALTEY CONTRÔL	DPWH QUALITY ASSURANCE
		One (1) for every 1,500 m ³ per source or fraction thereof	tures, and Water Supply System	
c. Water	1 - Quality Test	One (1) per source	HING ITEMS OF WORK OF THE TURES MOLUME LYI, 2019 EDIT	DIA
olumn Guards	None	None		Engineer's Certificate
/heel Guards	None	None		Engineer's Certificate



MATERIAL OR PRODUCT	TEST REQUIRED	CONTRACTOR'S QU	CONTRACTOR'S QUALITY CONTROL	
		FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Fence	Ì			
1. Concrete	1 - Compressive Strength Test	One (1) - set of three (3) concrete cylinder samples from each 75 m ³ of each class or fraction thereof placed each day		
Expansion Joint Materials	1 - Quality Test	One (1) per lot for each thickness of filler	N* 280° _ 18	ADM NOT SELECTED ASSESSMENT
Mortar for Joint (Cement, Fine Aggregate and Water)	1 - Compressive Strength Test	One (1) set per pouring day		in .
a. Cement	1 - Quality Test	One (1) for every 2,000 bags per shipment or fraction thereof		
b. Fine Aggregate	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof	urm a noi esdar ous	
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		



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Minimum Testing Requirements

MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
c. Water	1 - Quality Test	One (1) per source		
4. Metal	1 - Quality Test	One (1) per lot for each type/size	Welding Report	
Sate 1. Timber VE ON ANODACL	1 - Quality Test Books 50	One (1) per lot for each type	OTHER THAN TEST	OTHER REQUIREMENTS
2. Preservatives	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	ANLITY CONTROL	Engineer's Certificate
3. Metal	1 - Quality Test		Welding Report	0
TEM 808 - RAMMED AGGREG	GATE COLUMN EDOLE OF MINIM	IM TESTING REQUIREMENTS GOVER	INING ITEMS OF WORK OF THE	W.S.
ammed Aggregate Column	1 - Static Axial Compressive Load	One (1) pile per project site		Engineer's Certificate
T. Stones WORKS A	11 - ADIASION TEST	One (1) for every 3,000 m ³ per source of fraction thereof	imum Testing Requirems	nts





1 - Quality Test

Minimum Testing Requirements

SCHEDULE OF MINIMUM TESTING REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES, VOLUME III, 2019 EDITION (Buildings, Ports and Harbors, Flood Control and Drainage Structures, and Water Supply Systems)

MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
2. Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	304	And the second s
Net but		PART D - REINFORCED CONCRETE	1.00	n
ITEM 900 - STRUCTURAL CON	ICRETE			
STRUCTURAL CONCRETE	The same of the sa	and the state of t	The second of the second of the second	
Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof		6/1
Fine Aggregate	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		

One (1) for every 1,500 m³ per source or

fraction thereof



Materials



MATERIAL OR PRODUCT	al - Quality Test	CONTRACTOR'S QU	JALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	thereof ELEGNENCA	OTHER THAN TEST	OTHER REQUIREMENTS
Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
BEINEUS FO CONCECTE	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		
Mater * TEPTAL OR PRODUCT	1 - Quality Test	One (1) per source	OTHER THAN TEST	OTHER REQUIREMENTS
Chemical Admixture	1 - Quality Test	One (1) per lot	IALITY CONTROL	DPWH QUALITY ASSURANCE
Curing Compound	1 - Quality Test	One (1) per lot of and Dramage Street	tures, and Water Supply System	2)
Expansion Joint Materials	1 - Quality Test	One (1) per lot for each thickness of filler	IING ITEMS OF WORK OF THE TURES, VOLUME III, 2019 FOITI	DW .
Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	-
	1 - Compressive Strength Test	One (1) - set of three (3) concrete cylinder samples for every 75 m ³ of each class or fraction thereof placed each day	mum Testing Requireme	





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL DPWH QUALITY		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
REINFORCED CONCRETE		7.60		
Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof		
Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof		
ridendis	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	Weg department	period for programme end
Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof	g a se a grand and a second	
rideridie	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		,
Water	1 - Quality Test	One (1) per source		
Chemical Admixture	1 - Quality Test	One (1) per lot		
Curing Compound	1 - Quality Test	One (1) per lot		





DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Minimum Testing Requirements

MATERIAL OR PRODUCT		LISTERIOR (PIELEO) CONTRACTOR'S QU	CONTRACTOR'S QUALITY CONTROL DPWH QUALITY ASS	
	TEST REQUIRED	LEGUENCA LEGUEN	OTHER THAN TEST	OTHER REQUIREMENTS
Expansion Joint Materials	1 - Quality Test	One (1) per lot for each thickness of filler		
Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg per size/source or fraction thereof		
Coucrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	OTHER REQUIREMENTS
	1 - Compressive Strength Test	One (1) - set of three (3) concrete cylinder samples for every 75 m ³ of each class or fraction thereof placed each day		DPWH QUALITY ASSURANCE
		bors, Flood Control and Drainage Stru		2)
ITEM 901 - LEAN CONCRETE				DM
Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof		
Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof	mum Testing Requireme	nts





MATERIAL OR PRODUCT	1.4 -22- 1.1-49 2-41	CONTRACTOR'S QU	CONTRACTOR'S QUALITY CONTROL	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		
Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		to the Salary
Water	1 - Quality Test	One (1) per source		
Curing Compound	1 - Quality Test	One (1) per lot	SPACE and advant country that or	}
Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	
	1 - Compressive Strength Test	One (1) - set of three (3) concrete cylinder samples for every 75 m ³ or fraction thereof placed each day		





Free agent repaire compe	5101	CONTRACTOR'S QUALITY CONTROL DPWH Q		DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	BLE - LIMIT FREQUENCY OTHER CLAT	OTHER THAN TEST	OTHER REQUIREMENTS
TEM 902- REINFORCING STE	ET = Quality Test	One (1) per lot for each type/sire		
Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof	Welding Report	
Epoxy Coated Steel Bars	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof		OTHER REQUIREMENTS
Vire and Wire Mesh	1 - Quality Test	One (1) per lot for each size	IVILLA CAMEBER	UBMH INISTITA SECHRUMI
Vire Rope/ Wire Cable	1 - Quality Test	One (1) per lot for each size	ttures, and Water Supply System	2)
TEM 903 - FORMS AND FALS	LMODIC	MUM TESTING REQUIREMENTS GOVER FICATIONS FOR PUBLIC WORKS STRUC		ON
imber	1 - Quality Test	One (1) per lot for each type of material used		
Preservatives MOBICE TO	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	mum Testing Requireme	Engineer's Certificate





MATERIAL OR PRODUCT	1 10 2 10 22 1 2 2 2 2 2 2 2 2 2 2 2 2 2	CONTRACTOR'S	CONTRACTOR'S QUALITY CONTROL	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Metal	1 - Quality Test	One (1) per lot for each type/size	Welding Report	
Plastic	1 - Quality Test	One (1) per lot for each type/size		
e Pala Lag V		PART E - FINISHINGS AND OTHER C		
ITEM 1000 - TERMITE CONT	ROL			
Soil Poisoning	None	None	F . F . WIN F . J DR. W.	Engineer's Certificate
Wood Preservative	None	None	all than the Figure 1 const	Engineer's Certificate
Powder Termicide	None	None		Engineer's Certificate





DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Minimum Testing Requirements

		CONTRACTOR'S QU	JALITY CONTROL	DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1001 - STORM DRAINAG	GE AND SEWERAGE SYSTEM	One (1) for every 1,500 m² per source of		
Concrete pipes	1 - Quality Test	One (1) for every 100 pcs.	Inspection Report of Casting	Inspection Report for each size of not more than 25 pipes cast in the field
	TEST REQUIRED	Alternative Requirements: One (1) - set consisting of three (3) concrete cylinder samples for not more than 25 pipes cast in the field	IALITY CONTROL OTHER THAN TEST	DPWH QUALITY ASSURANCE OTHER REQUIREMENTS
1. Concrete	1 - Slump Test Ports and Harbo		Concrete Monitoring Record	
	1 - Compressive Strength	One (1) - set of three (3) concrete cylinder samples for every 75 m ³ of each class or fraction thereof placed each day		
a. Cement WORKS	1 - Quality Test	One (1) for every 2,000 bags per shipment or fraction thereof	mum Testing Requireme	nts



		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
b. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof			
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof			
Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		Carrier of the Carrie	
	1 - Quality Test	One (1) for every 1,500 m³ per source or fraction thereof			
d. Water	1 - Quality Test	One (1) per source	25° 74,21 5-60 - 10 - 14, 70 - 27,350	gr	
e. Reinfocing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof			
f. Mortar for Joint	1 - Compressive Strength Test	One (1) set per pouring day			
gh Density (HDPE) yethylene Pipes	1 - Quality Test	One (1) per shipment for every plastic type/sized used		5 -	





DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Minimum Testing Requirements

MATERIAL OR PRODUCT	1 - Quality Test	DPWH QUAL		DPWH QUALITY ASSURANCE
	Culdinal Will Certificate	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Galvanized Iron Pipes	1 - Quality Test Original Mill Certificate	One (1) per lot per shipment		Engineer's Certificate
Cast Iron Pipes	1 - Quality Test Original Mill Certificate	One (1) per lot per shipment	OTHER THAN TEST	Engineer's Certificate
Metal Frames and Gratings 1. Gray Iron Castings	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	JALITY CONTROL	Engineer's Certificate
2. Carbon Steel Castings		One (1) per lot for each type	TURES, VOLUME III, 2019 EDITI	II.
Hot-Dip Galvanized Coatings	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	mum resung keguirem	Engineer's Certificate





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
ITEM 1002 - PLUMBING					
Galvanized Iron Pipes	1 - Quality Test 1 - Hydraulic Pressure Test Original Mill Certificate	One (1) per lot for each type		Engineer's Certificate	
High-Density Polyethylene (HDPE) Pipe	1 - Quality Test 1 - Hydraulic Pressure Test Original Mill Certificate	One (1) per lot for each type		Engineer's Certificate	
Polypropylene Random/ Copolymer (PPP/PPR-C)	1 - Quality Test 1 - Hydraulic Pressure Test Original Mill Certificate	One (1) per lot for each type		Engineer's Certificate	
Polyvinyl Chloride (PVC) Pipes	1 - Quality Test 1 - Hydraulic Pressure Test Original Mill Certificate	One (1) per lot for each type		Engineer's Certificate	





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Minimum Testing Requirements

MATERIAL OR PRODUCT		CONTRACTOR'S QUA	CONTRACTOR'S QUALITY CONTROL	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
cPVC) Pipes	1 - Quality Test 1 - Hydraulic Pressure Test Original Mill Certificate	One (1) per lot for each type		Engineer's Certificate
UPVC) Pipes	1 - Quality Test 1 - Hydraulic Pressure Test Original Mill Certificate	One (1) per lot for each type	OTHER THAN TEST	OTHER REQUIREMENTS
Ductile Iron Pipes	1 - Quality Test 1 - Hydraulic Pressure Test Original Mill Certificate	One (1) per lot for each type	ALITY CONTROL	Engineer's Certificate
Steel Pipes	1 - Hydraulic Pressure Test 1 - Quality Test	One (1) per lot for each type	URES, VOLUME III, 2019 EDITI	ON
Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof		
Fine AGBRE WI Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof	num Testing Requireme	nts





		CONTRACTOR'S QU	JALITY CONTROL	DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
	1 - Quality Test	One (1) for every 1,500 m³ per source or fraction thereof		
Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof		
,	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		5 3844 - 1 1 1 1 1
Water	1 - Quality Test	One (1) per source		
Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg per size/source or fraction thereof		
Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	
	1 - Compressive Strength	One (1) - set of three (3) concrete cylinder samples for every 75 m ³ of each class or fraction thereof placed each day		
Water Closet	None	None		Engineer's Certificate







Les pattada	Mane	CONTRACTOR'S Q	UALITY CONTROL	DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT PRODUCT TEST REQUIRED	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
n old stad Hot Water Lines	None	None	Ī	Engineer's Certificate
Kitchen Sink	None	None		Engineer's Certificate
Lavatory	None	None	OTREK INAM TEST	Engineer's Certificate
Floor Drain Plates & BEODALL	None TEST REQUIRED	None		Engineer's Certificate
Bidet	None	None COSTISTED	HALITY CONTROL	Engineer's Certificate
Stainless Steel Grab Bar	None	None		Engineer's Certificate
Shower Head/ Shower Valve	Noue WH STANDARD SPECIF	Noue S FOR PUBLIC WORKS STRUED IN PRODUCTION OF STRUE AND STRUE ST		Engineer's Certificate
Facial Mirror	None	None 12 MC BEGINDEMENTS COAES	HING ITEMS OF WORK OF THE	Engineer's Certificate
Faucet	None	None		Engineer's Certificate
Hose Bibb MOKKE Y	None GHAVAS	None	mum Testing Requireme	Engineer's Certificate
Gate Valve	None	None		Engineer's Certificate





MATERIAL OR PRODUCT TEST REQUIRE		CONTRACTOR'S QUALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY OTHER THAN T	TEST OTHER REQUIREMENTS
Water Meter	None	None	Engineer's Certificate
Cold and Hot Water Lines	None	None	Engineer's Certificate
Fire Extinguisher	None	None	Engineer's Certificate
Yard Hydrant	None	None	Engineer's Certificate
	None	No.	Engineer's Cortificate
Fire Pump	None	None	Engineer's Certificate
TTEM 1003 - CARPENTRY AN			Engineer's Certificate
ITEM 1003 - CARPENTRY AN	ID JOINERY WORKS		
ITEM 1003 - CARPENTRY AN	1 - Quality Test 1 - Quality Test 1 - Quality Test 1 - Quality Test	One (1) per lot	Engineer's Certificate







MATERIAL OR PRODUCT	TEST REQUIRED	CONTRACTOR'S QUALITY CONTROL	DPWH QUALITY ASSURANCE
		FREQUENCY OTHER THAN TEST	OTHER REQUIREMENTS
Fiber Cement Board	1 - Quality Test	One (1) per lot	Engineer's Certificate
Gypsum Board	1 - Quality Test	One (1) per lot	Engineer's Certificate
Prepainted Metal Panel	1 - Total Thickness	One (1) per lot	Engineer's Certificate
Plastic Sheet	None TEST REQUIRED	None	Engineer's Certificate
Glue	None	None Course Course Course	Engineer's Certificate
Fasteners	Noue (Buildings, Ports and har	None	Engineer's Certificate
Moulding	Noue WH STANDARD SPECIF	ICA Nouel'S FOR PUBLIC WORKS STRUC TURES, VOLUME III, 2019 EDIT	Engineer's Certificate
Modular Partition	None	None None	Engineer's Certificate
Nails, Screw, Bolts, Rivets and Straps	None	None	Engineer's Certificate
Polyvinyl Chloride PVC) Pipes	1 Hydraulic Proceure Toet	One (1) per lot for each type/size	Engineer's Certificate





MATERIAL OR PRODUCT	TEST REQUIRED	CONTRACTOR'S QUA	CONTRACTOR'S QUALITY CONTROL	
		FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Aluminum Cladding	1 - Quality Test Original Mill Certificate	One (1) sample from each end of each parent coil, or parent plate, but no more than one sample per 1000 kg of sheet or 2000 kg of plate, or part thereof, in a lot		Engineer's Certificate
ITEM 1004 - HARDWARE	78 Mar 1 1255		277	
Rough Hardware (Nails,Screws, Bolts, Fasteners)	None	None		Engineer's Certificate
Finishing Hardware (Door Locksets, Latches, Door Closers, Knobs, Handles, Hinges, Door Pull, Hook, Bumper and Silencer)	None	None		Engineer's Certificate



TITE JUNE - STEFF DOORS & I	CONTRACTOR'S QUALITY CONTROL		ALITY CONTROL	OTHER REQUIREMENTS
MATERIAL OR PRODUCT TEST REQUIRED	FREQUENCY	OTHER THAN TEST		
TEM 1005 - STEEL WINDOWS	Mone	Mone		Enquerrs Carblinate
Steel Windows – Hot Rolled and	1 - Air Infiltration Test	One (1) per lot		Engineer's Certificate
Hot Rolled Fire Rated	1 - Water Penetration Test Original Mill Certificate	FREQUENCY		OTHER REQUIREMENTS
Steel Windows – Cold Formed and Cold Formed Fire Rated	1 - Air Infiltration Test 1 - Water Penetration Test Original Mill Certificate	One (1) per lot	ALITY CONTROL	Engineer's Certificate
Casement Windows	Noue and man Ports and Par	rbor Noue od Control and Dramage Strue	tures, and Water Supply System	Engineer's Certificate
Projected Windows	None SCHEDGIE OF MINI	None REGULERENLE COAES	IING ITEMS OF WORK OF THE FURSE, YOUMS TH, 2019 ADTE	Engineer's Certificate
Awning Windows	None	None		Engineer's Certificate
Double and Single Hung Windows	None D HIGHMAN	None	mum resting kequirems	Engineer's Certificate
Galvanized Steel Anchors	None	None		Engineer's Certificate





MATERIAL OR PRODUCT	TEST REQUIRED	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
		FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
Screens	None	None		Engineer's Certificate	
Accessories (Anchors, Hardware, Fasteners)	None	None	-	Engineer's Certificate	
Glass and Glazing	None	None		Engineer's Certificate	
ITEM 1006 - STEEL DOORS & FR	RAMES				
TEM 1006 - STEEL DOORS & FI	RAMES				
Hollow Steel Door	None	None		Engineer's Certificate	
lollow Steel Door	None	None		Engineer's Certificate	
Hollow Steel Door	None	A service of the serv			
Hollow Steel Door Flush Doors Frille Doors Fire Rated Exit Doors	None	None		Engineer's Certificate	
Hollow Steel Door Flush Doors Fire Rated Exit Doors	None None 1- Fire Test	None None		Engineer's Certificate Engineer's Certificate	





SCHEDULE OF MINIMUM TESTING REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES, VOLUME III, 2019 EDITION (Buildings, Ports and Harbors, Flood Control and Drainage Structures, and Water Supply Systems)

MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	than one can ELEGNENCA light sheet of 2000 kg of plate, or part thereof, in a lot	OTHER THAN TEST	OTHER REQUIREMENTS
Anchors and Fasteners	None Page 153	None (1) sample from each and of each		Engineer's Certificate
ITEM 1007 - ALUMINUM GLAS				
Aluminum	1 - Quality Test Original Mill Certificate	One (1) sample from each end of each parent coil, or parent plate, but no more		Engineer's Certificate
		than one sample per 1000 kg of sheet or 2000 kg of plate, or part thereof, in a lot	JALITY CONTROL	DPWH QUALITY ASSURANCE
Vinyl	None Hall Hall Bolls and Hall	not Noue od Control and Drainage Strui	tures, and Water Supply System	Engineer's Certificate
·,	DPWH STANDARD SPECIFI		TURES, VOLUME IXI, 2019 EDITI	юи
Screws, Nuts, Washers, Bolts, Rivets	Nous SCHEDULE OF MINIM			Engineer's Certificate



WORKS AND HIGHWAYS

Minimum Testing Requirements



	UCT TEST REQUIRED	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT		FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
ITEM 1008 - ALUMINUM GLA	SS WINDOWS				
Aluminum	1 - Quality Test Original Mill Certificate	One (1) sample from each end of each parent coil, or parent plate, but no more than one sample per 1000 kg of sheet or 2000 kg of plate, or part thereof, in a lot		Engineer's Certificate	
Vinyl	None	None		Engineer's Certificate	
Screws, Nuts, Washers, Bolts, Rivets	None	None		Engineer's Certificate	
Glass and Glazing			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
1. Float Glass	None	None		Engineer's Certificate	
Ordinary Window and Sheet Glass	None	None	thought at geometric s	Engineer's Certificate	
3. Tempered Glass Doors	None	None		Engineer's Certificate	





MATERIAL OR PRODUCT TEST REQUIRED	11 - Quelly Test	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
		FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
4. Tempered Glass Windows	None	None		Engineer's Certificate	
5. Tempered Glass Walls/ Barriers, Etc.	None	Noue 11 per lot ret thickness	None	Engineer's Certificate	
6. Glass and Glazing	Noue TEST REQUIRED	None	CAPIED AND A SECOND	Engineer's Certificate	
7. Facial Mirror	None	None COMIRACIOR'S C	NALITY CONTROL	Engineer's Certificate Veans VMCE	
TEM 1009 - JALOUSIE WINDO	None None	INOTIC	None - AUTHME AU 3010 EDA	Engineer's Certificate	
alousie Metal Frame	(Buildings Ports and Har	None 2 EOS BITELLE MOBRE CLBIR	None - AUTHME AU 3010 EDA		
alousie Metal Frame Glass Slats	Nous AH STANDARD SPECTS	None a for Public Works STRING	VING TTEMS OF WORK OF THE None & VOLUME III. 2019 EDIT	Engineer's Certificate	
	None SCHEDNIE OF MINIS None	Noue Noue Noue LESTING REQUIREMENTS GOVER Noue LOS PIETT WORKS STREET	Nous AND UME III 2019 EDIT	Engineer's Certificate Engineer's Certificate	





MATERIAL OR PRODUCT TEST F		CONTRACTO	CONTRACTOR'S QUALITY CONTROL	
	T TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Wood Jambs	1 - Thickness 1 - Moisture Content	One (1) per lot per thickness	None	Engineer's Certificate
TTEM 1010 - WOODEN DOO	DRS AND WINDOWS			
Doors	J. Prince Section			
1. Flush	1 - Quality Test	One (1) per lot	ere u e man	Engineer's Certificate
2. Wood Panel	1 - Quality Test	One (1) per lot	F. Milestration is seen to provide the second second	Engineer's Certificate
3. Glass Panel	None	None		Engineer's Certificate
rames	1 - Quality Test	One (1) per lot		Engineer's Certificate
Vindow Sashes	1 - Quality Test	One (1) per lot		Engineer's Certificate
Capiz Shells	None	None		Engineer's Certificate
Hardware	None	None		Engineer's Certificate







		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Adhesive	None WSUG	None		Engineer's Certificate
ITEM 1011 - ROLL-UP DOORS				
Curtain	None LEST REQUIRED	None EREQUENCY	OTHER THAN TEST	Engineer's Certificate
Counter Balance Barrel Assembly	None	None CONTRACTOR'S	QUALITY CONTROL	Engineer's Certificate
Hood	None	None None	ners sal mus wasse or bluk alassu	Engineer's Certificate
Bracket Plates	Noue WH STANDARD SPECIE		UCTURES, VOLUME III, 2019 EDIT	Engineer's Certificate
Guides/ Wall Angles	None	None		Engineer's Certificate
ITEM 1012 – GLASS AND GLAZ	ING-TEHANVAS	IAI	nimum Testing Requirem	ents
Float Glass	None	None		Engineer's Certificate





y		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
Ordinary Window and Sheet Glass	None	None		Engineer's Certificate	
Tempered Glass Doors	None	None		Engineer's Certificate	
Tempered Glass Windows	None	None		Engineer's Certificate	
Tempered Glass Walls/ Barriers, Etc.	None	None	-	Engineer's Certificate	
Glass and Glazing	None	None		Engineer's Certificate	
Facial Mirror	None	None		Engineer's Certificate	
ITEM 1013 - CORRUGATED ROO	OFING	19 10 10 10 10 10 10 10 10 10 10 10 10 10		2 :	
Corrugated and Plain Glavanized Iron Sheets	1 - Quality Test	One (1) per 1,000 sheets or fraction thereof			
Corrugated Asphalt Roofing	1- Quality Test Original Mill Certificate	One (1) per lot	omi, jean G	Engineer's Certificate	
Strap Fasteners	None	None		Engineer's Certificate	







MATERIAL OR PRODUCT	L. Onaula Toch	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	Conginal Mill Certificate **Text Section 1.00 **T	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
livets, Washers and Burrs	None	None 1) ber jor jor 690p phospage		Engineer's Certificate	
oldering Lead	None	None		Engineer's Certificate	
Fabricated Metal Roofing Accessories Plain G.I. Sheets - Ridge/hip rolls, Valleys, flashings and counter lashings, gutters and downspouts)		COMTRACTOR 3 Q	ALITY CONTROL OTHER THAN TEST	DPWH QUALITY ASSURANCI OTHER REQUIREMENTS	
TEM 1014 - PREPAINTED MET	TAI CHEFTS				
repainted Roofing Sheets	1 - Total Thickness	One (1) per lot	TING TIEMS OF WORK OF IH	E	
Hardware/Fasteners	None	None		Engineer's Certificate	



		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
TEM 1015 - CLAY ROOF TILE		700		As II	
Clay Roof Tile	1 - Quality Test Original Mill Certificate	One (1) per lot for each type/size		Engineer's Certificate	
asteners	None	None	A-10	Engineer's Certificate	
Inderlayment	1 - Quality Test Original Mill Certificate	One (1) per lot	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Engineer's Certificate	
Sheating a. Corrugated G.I. Sheet	1 - Quality Test	One (1) per lot	granista organista organista organista.	V.	
o. Plywood	1 - Quality Test	One (1) per lot per thickness		Engineer's Certificate	
Vood Batten	None	None		Engineer's Certificate	
lips and Ridges	None	None	mati vegiti tudeju se	Engineer's Certificate	







		(One (E) per shipmen(dor ead, hype/size		Harman Francisco	
MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
ITEM 1016 - WATERPROOFIN		One (1) per shipment for each type/sac		Enginger's Certificate	
Cement-base Waterproofing	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	Cours town (sq.)	Engineer's Certificate	
Built-Up and Preformed Bituminous Membrane Waterproofing	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	ALITY CONTROL	Engineer's Certificate	
Liquid Waterproofing	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	tures, and Water Supply System	Engineer's Certificate	
ITEM 1017 - ROOF DRAIN WI	TH STRAINER DOTE OF MEALWOO	A TESTING REQUIREMENTS COVER	MING ITEMS OF WORK OF THE		
Roof Drain with Srainer	None	None		Engineer's Certificate	
Canopy Drain with Strainer	None None	None	mum Testing Requireme	Engineer's Certificate	
Gutter Drain with Strainer	None	None	Marine Torbing Bandingson	Engineer's Certificate	



	8 10 10 10 10 10 10 10 10 10 10 10 10 10	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
ITEM 1018 - CERAMIC AND G	RANITE TILES			THE RESERVE OF THE RE	
Ceramic Tiles	1 - Quality Test	One (1) per shipment for each type/size		Engineer's Certificate	
Granite Tiles	1 - Quality Test	One (1) per shipment for each type/size		Engineer's Certificate	
Synthetic Granite Tiles	1 - Quality Test	One (1) per shipment for each type/size		Engineer's Certificate	
Accessories	None	None	CETTAL REGISTER TO THE	Engineer's Certificate	
Mortar Materials	A 1 2 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
1. Cement	1 - Quality Test	One (1) for every 2,000 bags per source or fraction thereof			
2. Fine Aggregates	1 - Grading Test	One (1) for every 75 m³ per source or fraction thereof		- 2	



DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Minimum Testing Requirements

Fall 250 M 000 Files	1 Quality Test	CONTRACTOR'S QUALITY CONTROL	DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY OTHER THAN TEST	OTHER REQUIREMENTS
FIEW TOTS - WOOD TILES	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	
3. Hydrated Lime	1 - Quality Test Original Mill Cerificate	One (1) for every 2,000 bags or fraction thereof	Engineer's Certificate
4. Water of Scopnel	1 - Quality Test BEGOINED	One (1) per source	DPWH QUALITY ASSURANCE
Grouting Materials 1. Cement	1 - Compressive Strength Test (Remode Board Sugar Sug		ms)
2. Fine Aggregates	1 - Grading Test	One (1) for every 75 m³ per source or fraction thereof	
		One (1) for every 1,500 m ³ per source or fraction thereof	oluje





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY OTHER THAN TEST	OTHER REQUIREMENTS
3. Water	1 - Quality Test	One (1) per source	
TTEM 1019 - WOOD TILES			
Hardwood	1 - Quality Test	One (1) per lot	Engineer's Certificate
aminated Wood Tiles	1 - Quality Test	One (1) per lot	Engineer's Certificate
Adhesive	None	None	Engineer's Certificate
inishes	Appendix of the control of the control	There are two in the contract of the contract	
L. Varnishes	1 - Quality Test Original Mill Certificate	One (1) per lot	Engineer's Certificate
. Lacquer	1 - Quality Test Original Mill Certificate	One (1) per lot	Engineer's Certificate
. Shellac	1 - Quality Test Original Mill Certificate	One (1) per lot	Engineer's Certificate





MATERIAL OR PRODUCT	ii. Anajak jear	CONTRACTOR'S QUAL	CONTRACTOR'S QUALITY CONTROL	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
IITEM 1020 - VINYL FLOOR T	ILES Onglik Jest	Une (1) per lot		
Vinyl Tiles	None	None		Engineer's Certificate
Adhesive	None	None FREQUENCY	OTHER THAN TEST	Engineer's Certificate
Seal Polish	None	None COMUSACIONS OF A	CITTCOMIKOL	Engineer's Certificate
ITEM 1021 - CEMENT FLOOR	FINISH			
Cement	1 - Quality Test	shipment or fraction thereof 8K2 21800		5N 5)
Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
4. 花 4	1 - Quality Test	One (1) for every 1,500 m³ per source or fraction thereof	num Testing Requireme	nts
Water	1 - Quality Test	One (1) per source		





*		CONTRACTOR'S QU	CONTRACTOR'S QUALITY CONTROL	
MATERIAL OR PRODU	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Coloring Material	None	None		Engineer's Certificate
Curing Compound	1 - Quality Test	One (1) per lot		
ITEM 1022 - STUCCO FIN	IISH	1 1 7 pc	56a - S	ACTOR OF AR
Cement	1 - Quality Test	One (1) for every 2,000 bags per shipment or fraction thereof	^ . cs = 24_3	
Fine Aggregates	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
Hydrated Lime	1 - Quality Test Original Mill Certificate	One (1) for every 2,000 bags or fraction thereof		Engineer's Certificate
Water	1 - Quality Test	One (1) per source		
Fibers	None	None	-W	Engineer's Certificate
Pigment	None	None		Engineer's Certificate







MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	THE REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1023 - GRANOLITHIC M	ARBLE WORK	fraction thereof		
Marble Chips	None	None		Engineer's Certificate
MATERIAL OR PRODUCT	1 - Quality Test	One (1) for every 2,000 bags per shipment or fraction thereof	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1024 - PEA GRAVEL WA	1 - Grading Test House sug Haupo		ures, and Water Supply System	
Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof	ING TTEMS OF WORK OF THE URES, YOLUME III, 2019 EDITI	DM.
ITEM 1025 - BUSH HAMMERE	D FINISH	Milita	num Testing Keguireme	UE2
Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof		



		CONTRACTOR'S QUALI	TTY CONTROL	DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Adobe Aggregates	1 - Grading Test	One (1) for every 1,500 m ³ per source or fraction thereof		
ITEM 1026 - PEBBLE WASHOU	T FINISH			
Pebble	1 - Grading Test	One (1) for every 300 m ³ per source or fraction thereof		
Cement	1 - Quality Test	One (1) for every 2,000 bags per shipment or fraction thereof		
Colored Cement	None	None	Set of to an earlier of all	Engineer's Certificate
Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		- , - ,
50 SS 74-04	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	so the property of the same and the same	
Water	1 - Quality Test	One (1) per source		





DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Minimum Testing Requirements

SCHEDULE OF MINIMUM TESTING REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES, VOLUME III, 2019 EDITION (Buildings, Ports and Harbors, Flood Control and Drainage Structures, and Water Supply Systems)

MATERIAL OR PRODUCT	1-Ouality Test	CONTRACTOR'S QU	CONTRACTOR'S QUALITY CONTROL	
	MOUG TEST REQUIRED	Shipment or fraction thereof LEEONENCA Mona	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1027 - CEMENT PLASTE		One (1) for every 2,000 begs por		
Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof	VI PEA VIIAN 1EST	UTHER REQUIREMENTS
Hydrated Lime OK BRODICE	1 - Quality Test Original Mill Certificate	One (1) for every 2,000 bags per source or fraction thereof		Engineer's Certificate
Water	1 - Quality Test	One (1) per source		
Fine Aggregate Materials	1 - Grading Test Succession and Park Park Park Park Park Park Park Park	One (1) for every 75 m³ or fraction thereof	rures, volume III, 2019 EDITI tures, and Water Supply System	e) DM
Piacerais	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		



WORKS AND HIGHWAYS

Minimum Testing Requirements





MATERIAL OR PRODUCT		CONTRACTOR'S QUALI	CONTRACTOR'S QUALITY CONTROL	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
TEM 1028 - SYNTHETIC ADO	BE			
Cement	1 - Quality Test	One (1) for every 2,000 bags per shipment or fraction thereof		
Adobe Stones	None	None		Engineer's Certificate
Metal Lath	1-Quality Test Original Mill Certificate	One (1) per lot		Engineer's Certificate
ITEM 1029 - GRANITE WASH	OUT FINISH			
Granite Granules	1 - Grading Test	One (1) for every 300 m ³ per source or fraction thereof		
Pea Gravel	1 - Grading Test	One (1) for every 300 m ³ per source or fraction thereof		







MATERIAL OR PRODUCT		CONTRACTOR'S QU	ALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Gement 883 PAINTING VARN	1 - Quality Test THER BELVIED MOR	One (1) for every 2,000 bags per source or fraction thereof		
Vater	1 - Quality Test	One (1) per source		Enginent's Certificate
TEM 1030 - ACOUSTICAL CEIL	ING TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Acoustical Ceiling Panel	1 - Quality Test	One (1) per lot for each thickness	IALITY CONTROL	Engineer's Certificate
Metal Hangers (Wire Hanger, Angle Hanger, hanger Rod and Flat Hangers)	(Buildings, Ports and Harbor	One (1) per lot for each thickness	TURES, VOLUME III, 2019 EDTTI	1
TEM 1031 - ACOUSTICAL TRE	ATMENT	LECTING BEGILDENENTS COVER		
Acoustical (Tile)	1 - Quality Test	One (1) per lot for each thickness		Engineer's Certificate
Acoustical (Board)	1 - Quality Test	One (1) per lot for each thickness	mum Testing Requireme	Engineer's Certificate
Acoustical (Panel)	1 - Quality Test	One (1) per lot for each thickness		Engineer's Certificate





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURAN	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
Sprayed-on acoustical material	None	None		Engineer's Certificate	
ITEM 1032 - PAINTING, VARN	ISHING AND OTHER RELATED \	WORKS			
Paint 1. 20-L Cans	1 - Quality Test	One (1) for every 100 cans or fraction thereof			
2. 4-L Cans	1 - Quality Test	One (1) for every 100 cans or fraction thereof			
Tinting Colors	1 - Color Test Original Mill Certificate	One (1) per lot	ile de la companya de	Engineer's Certificate	
Acry-colors	1 - Color Test Original Mill Certificate	One (1) per lot		Engineer's Certificate	
Concrete Neutralizer	None	None	arrendo e de es	Engineer's Certificate	
Silicon Water Repellant	None	None		Engineer's Certificate	





MATERIAL OR PRODUCT	1 - (1991) 164	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
Patching Compound	None PSHIA 2002	None (1) Doction to reach thickness		Engineer's Certificate	
/arnish	1 - Quality Test Original Mill Certificate	One (1) per lot	OTREK LINAR TEST	Engineer's Certificate	
acquer FRINT OR BRODUCT	1 - Quality Test Original Mill Certificate	One (1) per lot	ALITY CONTROL	Engineer's Certificate	
Shellac	1 - Quality Test Original Mill Certificate	One (1) per lot		Engineer's Certificate	
Sanding Sealer	None WH STANDARD SPECIFICA	Nous S FOR PUBLIC WORKS STRUG	FURES, VOLUME III, 2019 EDIT Türes, and Water Supply System	Engineer's Certificate	
Dil Wood Stain	None	None	HING TIEMS OF WORK OF THE	Engineer's Certificate	
Glazing Putty	None	None		Engineer's Certificate	
Natural Wood Paste Filler	None	None	mum Tasting Requirem	Engineer's Certificate	





MATERIAL OR PRODUCT	As a second	CONTRACTOR'S QU	JALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1033 - METAL DECK				Argent and a second a second and a second and a second and a second and a second an
Structural Metal	1 - Quality Test	One (1) per lot for each thickness		
ITEM 1034 - DAMPPROOFING	G 1 TO THE			
Asphalt Cement	1 - Quality Test Original Mill Certificate	One (1) per lot		Engineer's Certificate
Coal-Tar Pitch	1 - Quality Test Original Mill Certificate	One (1) per lot	the ender you are selected with	Engineer's Certificate
Emulsified Asphalt	1 - Quality Test Original Mill Certificate	One (1) per lot		Engineer's Certificate
Polyethylene Sheet	1 - Quality Test Original Mill Certificate	One (1) per lot		Engineer's Certificate
rimer	1 - Quality Test Original Mill Certificate	One (1) per lot		Engineer's Certificate





MATERIAL OR PRODUCT	Mone	CONTRACTOR'S QUA	ALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1035 - NON-STRUCTURA	L METAL FRAMING	Dine (1) per lot		Englneer's Certificate
Non-Load Metal Partitions	1 - Quality Test	One (1) per lot for each thickness		Engineer's Certificate
Metal Studs Wall Systems, Ceiling or Soffit Suspended or Furred Framing, Wall Furring)		FREQUENCY		OTHER REQUIREMENTS
Fasteners and Accessories	None	None	ACTIT CONTROL	Engineer's Certificate
ITEM 1036 - POLYCARBONATE Polycarbonate Sheet/ Panels		One (1) per lot for each thickness		
Polycarbonate Sheet/ Panels Fastening Hardware and Accessories	1 - Quality Test	TCA LLONS FOR PUBLIC WORKS STRUCT	URES, VOLUME DI, 2019 PDI	LTOM





MATERIAL OR PRODUCT		CONTRACTOR'S QUA	CONTRACTOR'S QUALITY CONTROL	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1037 - CONCRETE ROO	FTILE			
Concrete Roof Tile	1 - Quality Test Original Mill Certificate	One (1) per lot	# 13 mm	Engineer's Certificate
Wood Batten	None	None		Engineer's Certificate
asteners	None	None		Engineer's Certificate
Gutters, Valleys and Flashings	None	None		Engineer's Certificate
Jnderlayment	1 - Quality Test Original Mill Certificate	One (1) per lot		Engineer's Certificate
ITEM 1038 - REFLECTIVE INS	SULATION			
Reflective Insulation	1 - Quality Test Original Mill Certificate	One (1) per lot		Engineer's Certificate



MATERIAL OR PRODUCT	17 - Quality T 23	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1039 - ALUMINUM CLAD	DING	One (1) per lot		Engineer's Certificate
Aluminum and Aluminum Alloy	1 - Quality Test	One (1) sample from each end of each		Engineer's Certificate
MATERIAL OR PRODUCT	Original Mill Certificate	parent coil, or parent plate, but no more than one sample per 1000 kg of sheet or 2000 kg of plate, or part thereof, in a lot		OTHER REQUIREMENTS
		CONTRACTOR'S Q		DPWH QUALITY ASSURANCE
Rivets	None	None		Engineer's Certificate
ITEM 1040 - METAL LATH AND Metal Lath	ACCESSORIES	Oue (1) bet lot OUR EMEMIS GOVER STRUCTORS FOR PUBLIC WORKS STRUCTORS, Flood Control and Drainage Sure		
Accessories (Corner Beads/Casing	1- Quality Test	One (1) per lot	mum Testing Requiremo	Engineer's Certificate





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL DPWH Q		DPWH QUALITY ASSURANCE
	TEST REQUIRED		OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1041 - GYPSUM BOARD				
Gypsum Board	1 - Quality Test Original Mill Certificate	One (1) per lot	,	Engineer's Certificate
Accessories 1. Joint Materials, Metal Furring Runners, Hangers, Inserts and Anchors, Drywall Furring Channels and Resilient Drywall Furring	1 - Quality Test	One (1) per lot for each thickness		Engineer's Certificate
2. Nails and Steel Drill Screws	None	None	2.72	Engineer's Certificate
3. Laminating Compound	None	None		Engineer's Certificate
4. Casing Beads, Corner Beads, Control Joints and Edge Trim	None	None		Engineer's Certificate
5. Insulating Strip	None	None		Engineer's Certificate







MATERIAL OR PRODUCT	1 Mode	CONTRACTOR'S Q	UALITY CONTROL	DPWH QUALITY ASSURANCE
	MOUS TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
. Joint Compound	None	None		Engineer's Certificate
TEM 1042 - STAINLESS STEE	1655.10.1051			
Stainless Steel Doors	None TEST REQUIRED	None EBEOTERICA	OTHER THAN TEST	Engineer's Certificate
tainless Steel Frames	None	Noue CONTRACTOR'S C	NALITY CONTROL	Engineer's Certificate
rame Anchors	None	None		Engineer's Certificate
TEM 1043 - PVC DOORS AND	FRAMES 21MMDVKD 25ECT	ICATIONS FOR PUBLIC WORKS STRU bors, Flood Control and Drainage Stri		
VC Doors and Frames	None	None None	CMINE INTINZ DE MONICOLUL	Engineer's Certificate
lardware	None	None		Engineer's Certificate





MATERIAL OR PRODUCT	4	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
TEM 1044 - FOLDING DOOR/	PARTITION			
Poors/Partition Panel 1. Wooden	None	None		Engineer's Certificate
2. Steel/Aluminum	None	None		Engineer's Certificate
3. Plastic/PVC	None	None		Engineer's Certificate
rames	None	None		Engineer's Certificate
ardware and Accessories	None	None		Engineer's Certificate
ITEM 1045 - ALUMINUM CEIL	ING PANEL			
Perforated Ceiling Panel	1 - Quality Test Original Mill Certificate	One (1) per lot for each type		Engineer's Certificate





		HOLIPOTE OF MICH. CONTRACTOR'S QU	JALITY CONTROL	DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	Two (2) per ELEGNENCA 10,000 and	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1046 - MASONRY WORK	R I - Ouelity Test	One (1) for every 10,000 units or fraction		
Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof	OTHER INFAILEST	OTHER REQUIREMENTS
Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		DPWH QUALITY ASSURANCE
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		
Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction	TURES, VOLUME III, 2019 EDITI	DM .
Piacriais	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		
Water AAOBK2 V	1 - Quality Test	One (1) per source	mum Testing Requireme	กเร
Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof		





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Mortar for Joint	1 - Compressive Strength Test	One (1) set per pouring day		
Concrete Hollow Blocks and Louvers	1 - Quality Test	One (1) for every 10,000 units or fraction thereof		
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Two (2) per lot of more than 10,000 and less than 100,000 For lots of more than 100,000 units - One		
		(1) per 50,000 units		





MATERIAL OR PRODUCT	7 - 500-0 1000	CONTRACTOR'S QU	CONTRACTOR'S QUALITY CONTROL	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Autoclaved Aerated Concrete (AAC) blocks	1 - Quality Test	One (1) for every 5,000 units or fraction thereof	Welding Report	
Backer Material	1 - Quality Test Original Mill Certificate	One (1) per lot	UTBER SPAR LEST	Engineer's Certificate
Adobe Blocks TOK BEODRICE	1 - Compressive Strength Test	One (1) per lot	ALLENDO ARCHITAGA	
Structural Steels a. Built-Up Shapes		One (1) per lot per shipment for each size		1
b. Cold Formed Plate Shapes	1 - Quality Test	One (1) per lot per shipment for each size		
c. Cold Formed Light Gage Shapes	s 1 - Quality Test	One (1) per lot per shipment for each size	mum Testing Requireme	nts





=		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
d. Rolled Steel Shapes	1 - Quality Test	One (1) per lot per shipment for each size		
e. Metal Decks	1 - Quality Test	One (1) per lot per shipment for each size	Welding Report	
f. Hot-Rolled Structural Shapes	1 - Quality Test	One (1) per lot per shipment for each size		real marks are real and a second
g. Structural Tubing	1 - Quality Test	One (1) per lot per shipment for each size		10 AV 50
h. Steel Pipe	1 - Quality Test	One (1) per lot per shipment for each size	Welding Report	
i. Steel Plates	1 - Quality Test	One (1) per lot per shipment for each size		
j. Steel Bars	1 - Quality Test	One (1) per lot per shipment for each size		
k. Steel Sheets	1 - Quality Test	One (1) per lot per shipment for each size		







MATERIAL OR PRODUCT	 Quality Test One not full Certificate 	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	II - Quality Test	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
. Steel Castings and Forgings	1 - Quality Test	One (1) per lot per shipment for each size	Welding Report	Engineer's Combinate
m. Bolts, Washers and Nuts	1 - Quality Test	One (1) per lot per shipment for each size		
n. Anchor Rods and Threaded Rods	1 - Quality Test	One (1) per lot per shipment for each size	OTHER THAN TEST	OTHER REQUIREMENTS
b. Headed Stud Anchors	1 - Quality Test	One (1) per lot per shipment for each size	ALITY CONTROL	DPWH QUALITY ASSURANCE
p. Turnbuckle	1 - Quality Test		tures, and Water Supply System	E)
q. Stainless Steel Flagpole Post	1 - Quality Test			DM
ITEM 1048 - FIBER REINFORG				
Carbon Fiber Sheet (CFS)	1 - Quality Test	One (1) per lot for each size	mum Testing Requireme	THE STATE OF THE S





MATERIAL OR PRODUCT		CONTRACTOR'S QU	JALITY CONTROL	DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
Carbon Fiber Plate (CFP)	1 - Quality Test	One (1) per lot for each size			
Epoxy Adhesive	1 - Quality Test Original Mill Certificate	One (1) per lot	to the second se	Engineer's Certificate	
Glass Fiber Sheet (GFS)	1 - Quality Test	One (1) per lot for each size		11,160 - 77	
Aramid Fiber Sheet (AFS)	1 - Quality Test Original Mill Certificate	One (1) per lot for each size		Engineer's Certificate	
Sealant for Epoxy Injection	1 - Quality Test Original Mill Certificate	One (1) per lot	rija ilikanon jangsi jabeada	Engineer's Certificate	
Polymer Cement Patching Material	1 - Quality Test Original Mill Certificate	One (1) per lot	AND	Engineer's Certificate	







MATERIAL OR PRODUCT	1 Slump Test	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURAN	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
TEM 1049 - JET GROUTING	1 - Quality Test	One (1) per lot			
Grout Cubes	1 - Compressive Strength	One (1) - set of three (3) grout cube samples per batch			
	1 - Density Test BEGRESED	One (1) per batch	OTHER THAN TEST		
		CONTRACTOR'S Q	ALLITEONIKOL	DEWH QUALITY ASSURANCE	
Cement Grout I. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof	tures, and water Supply System		
2. Water	1 - Quality Test	One (1) per source	URES, YOLUME III, 2019 EDITI	NC	
3. Admixtures	1 - Quality Test	One (1) per lot			
ITEM 1050 - NON-SHRINK GR	ND HIGHWAYS	None	num Testing Paquirame	Engineer's Certificate	
Pre-mixed Powder)					





		CONTRACTOR'S QU	JALITY CONTROL	DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Water	1- Quality Test	One (1) per source		
Curing Compound	1 - Quality Test	One (1) per lot		
ITEM 1051 - RAILINGS	1 1 1 1 1 1 1 1		F Van	
Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	1 × 1/2 × 1/2 × 1/2
	1 - Compressive Strength Test	One (1) - set of three (3) concrete cylinder samples for every 75 m ³ of each class or fraction thereof placed each day		
1. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof		
2. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof	EST LOS ADVISOS DE LOS ESTADOS	and
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		







MATERIAL OR PRODUCT		CONTRACTOR'S QU	JALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
3. Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		Engineer's Certificate
Materials	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	OTHER THAN (ES)	Vinex Regulation 113
4. Water MI OK BRODECL	1 - Quality Test KEONISED	One (1) per source		
Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof	INLITY CONTROL	PENNH QUALTEY ASSUBANCE
Forms and Falseworks	(Buildings, Ports and Harbo	ors, Flood Control and Drainage Stru-	tures, and Water Supply System	1)
1. Timber	1 - QualityTest	One (1) per lot for each type	VING TIEMS OF WORK OF THE TURES, VOLUME IXI, 2019 EDITE	DM .
2. Preservatives	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	-	Engineer's Certificate
3. Metal	1 - Quality Test	One (1) per lot for each type/size	Welding Report	nts
4. Plastic	1 - Quality Test	One (1) per lot for each type/size		





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	DPWH QUALITY ASSURANCE OTHER REQUIREMENTS Engineer's Certificate Engineer's Certificate Engineer's Certificate Engineer's Certificate
Lumber	1 - Quality Test	One (1) per lot	- ·	Engineer's Certificate
Plywood	1 - Quality Test	One (1) per lot per thickness	-	Engineer's Certificate
Hardware 1. Rough Hardware (Nails,Screws, Bolts, Fasteners)	None	None		Engineer's Certificate
2. Finishing Hardware (Door Locksets, Latches, Door Closers, Knobs, Handles, Hinges, Door Pull, Hook, Bumper and Silencer	None	None		Engineer's Certificate
Masonry 1. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof		
2. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof	ra ve a na ana	







SCHEDULE OF MINIMUM TESTING REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES, VOLUME III, 2019 EDITION (Buildings, Ports and Harbors, Flood Control and Drainage Structures, and Water Supply Systems)

MATERIAL OR PRODUCT	1 - Quality Test	OUG 11 LOU GAGE A CONTRACTOR'S QUALITY CONTROL		OTHER REQUIREMENTS DIMER REGOTAL WELLS DEATH OFFILIA VESSIEVANCE
	TEST REQUIRED	(1) ber 50,00 FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
States and Louvers	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		
3. Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof	UTHER (DAIN 125)	DINER REQUIRENERS
MATERIAL OR PRODUCT	1 - Quality Test	One (1) for every 1,500 m³ per source or fraction thereof		DPWH QUALITY ASSURANCE
4. Water	1 - Quality Test	One (1) per source		
5. Mortar for Joint	1 - Compressive Strength Test	One (1) set per pouring day	TURES, VOLUME III, 2019 EDITI)
6. Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof		



WORKS AND HIGHWAYS

Minimum Testing Requirements





MATERIAL OR PRODUCT	0 21 1 2 C ()	CONTRACTOR'S QU	CONTRACTOR'S QUALITY CONTROL	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
7. Concrete Hollow Blocks and Louvers	1 - Quality Test	One (1) for every 10,000 units or fraction thereof Two (2) per lot of more than 10,000 and less than 100,000		
		For lots of more than 100,000 units - One (1) per 50,000 units		
8. Autoclaved Aerated Concrete (AAC) blocks	1 - Quality Test	One (1) for every 5,000 units or fraction thereof	Miles & Gaires	
Stone	1 - Specific Gravity 1 - Abrasion Test 1 - Absorption Test	One (1) for every 3,000 m³ per source or fraction thereof	NEST EL COME D'AN PRÉSENTANT RELECTION DE L'ANDRE DE LA COME INCLUMENT DE LA COME DE LA	Engineer's Certificate
Metal	1 - Quality Test	One (1) per lot for each type/size	Welding Report	
Stainless Steel (Non-Ferrous Metal)	1 - Quality Test	One (1) per lot per shipment for each size	Manganan Talahira sahai	Engineer's Certificate
Glass and Glazing	None	None		Engineer's Certificate





DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Minimum Testing Requirements

SCHEDULE OF MINIMUM TESTING REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES, VOLUME III, 2019 EDITION (Buildings, Ports and Harbors, Flood Control and Drainage Structures, and Water Supply Systems)

MATERIAL OR PRODUCT	LEST REQUIRED I - Quality Test Cridinal Mill Certificate	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
		thereof ELEGNENCA	OTHER THAN TEST	OTHER REQUIREMENTS	
Aluminum 80-1 (2908	1 - Quality Test Original Mill Certificate	One (1) sample from each end of each parent coil, or parent plate, but no more than one sample per 1000 kg of sheet or 2000 kg of plate, or part thereof, in a lot		Engineer's Certificate	
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
		CONTRACTOR'S QUALITY CONTROL			

SCHEDULE OF MINIMUM TESTING REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES, VOLUME III, 2019 EDITION (Buildings, Ports and Harbors, Flood Control and Drainage Structures, and Water Supply Systems)



WORKS AND HIGHWAYS

Minimum Testing Requirements





		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
Paint 20-L Cans	1 - Quality Test	One (1) for every 100 cans or fraction thereof			
4-L Cans	1 - Quality Test	One (1) for every 100 cans or fraction thereof			
Varnishes	1 - Quality Test Original Mill Certificate	One (1) per lot	r lga — , 'a	Engineer's Certificate	
Shellac	1 - Quality Test Original Mill Certificate	One (1) per lot		Engineer's Certificate	
Lacquer	1 - Quality Test Original Mill Certificate	One (1) per lot		Engineer's Certificate	
Tinting Colors	1 - Color Test Original Mill Certificate	One (1) per lot	20 MINUTES NO. 142 M. 12 MINUTES NO. 1700	Engineer's Certificate	







MATERIAL OR PRODUCT	T Onen, TEST REQUIRED	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
		FREQUENCY One (1) for every 1,500 m² per source of	OTHER THAN TEST	OTHER REQUIREMENTS
2 - 500	1 Grading Test	One (1) for every 75 m3 or fraction	A CONTRACTOR OF THE CONTRACTOR	
ITEM 1052 - PILING				
Timber Piles	1 - Quality Test	One (1) per shipment for each size		
Concrete Piles (Bridges)	(CrossHole Sonic Logging Test and	One (1) per size of pile and for each abutment and every other pier (for multi-		OTHER REQUIREMENTS
	Low-Strain Pile Dynamic Test)	span bridges) COMIRACTOR'S Q	IALITY CONTROL	
		At least 50% of the total number of Piles at each abutment and pier		
	(Buildings, Ports and Harbor	s, Flood Control and Drainage Structure		
		At least one (1) at each abutment and pier		
Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	
	1 - Compressive Strength	One (1) - set of three (3) concrete cylinder samples from each 75 m ³ of each class or fraction thereof placed each day		



MATERIAL OR PRODUCT		CONTRACTOR'S QUA	CONTRACTOR'S QUALITY CONTROL	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
1. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof		
2. Fine Aggregate	1 - Grading Test	One (1) for every 75 m³ or fraction thereof	- 5m	
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	All Comments	
3. Coarse Aggregate	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		be
4. Water	1 - Quality Test	One (1) per source		A
5. Chemical Admixture	1 - Quality Test	One (1) per lot		
6. Special Curing Agent	1 - Quality Test	One (1) per lot	3113	





MATERIAL OR PRODUCT	1 - drading Test	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED	Cue (1) to FREQUENCY as or traction	OTHER THAN TEST	OTHER REQUIREMENTS	
7. Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg per size/source or fraction thereof			
Steel Pipes Piles/Steel Pipe Sheet Piles	1 - Quality Test	One (1) per lot for each pile type/size used	Welding Report	GINEK KEQUINEMENIS	
Steel H-Piles VF OK BRODUCE	1 - Quality Test BEOLIBED	One (1) per lot per shipment for each size	Welding Report	DENTI ANKELLI MODNIVALEE	
Steel Sheet Piles	1 - Quality Test	One (1) per lot for each pile type/size of material used		DEATH OFFICE PROFILE VICE	
Polyvinyl Chloride (PVC) Sheet Piles	1 - Quality Test Original Mill Certificate	One (1) per lot for each pile type/size of material used	TURES, VOLUME III, 2019 EDITI	Engineer's Certificate	
Steel Pile Shoes	1 - Quality Test	One (1) per lot for each size	Welding Report		
	1 - Quality Test	One (1) for every 100 cans or fraction thereof	mum Testing Requireme	nts	





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
4-L Cans	1 - Quality Test	One (1) for every 100 cans or fraction thereof			
Cement Mortar	1 - Compressive Strength Test	One (1) set per pouring day			
1. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof	Alletta i zaza i wasina		
2. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof			
Platerials	1 - Quality Test		se la le la regulare d'Assenta Se la la company de la company	54	
3. Water	1 - Quality Test	One (1) per source			
Slurry	1 - Density 1 - Viscosity Test 1 - pH Test	One (1) per lot for each type		Engineer's Certificate	





MATERIAL OR PRODUCT		CONTRACTOR'S QUAL	ITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1053 - CARPET FLOOR 1	LITE I - Ous ^{lity} Test	One (1) his every 1.500 m per source of		
Carpet Floor Tiles	None	None (1) All of the Az as the particular		Engineer's Certificate
		HISEOREMUA	DIHEK THAK 152	OTHEK KEGUIKEMENTS
ITEM 1054 - GLASS FIBER RE	INFORCED CONCRETE (GFRC) C	CONTRACTOR'S QUA	LITY CONTROL	DPWH QUALITY ASSURANCE
1. Cement	1 - Quality Test (Buildings, Ports and Ha	One (1) for every 2,000 bags or fraction thereof		
2. Alkali-Resistant Glass Fiber	1 - Quality Test Original Mill Certificate	One (1) per lot	NG ITEMS OF WORK OF THE MES WOLLIME HT 2019 EDITH	Engineer's Certificate
3. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	rum Testing Requireme	ints





MATERIAL OR PRODUCT	name i smountaine (mare) es co	CONTRACTOR'S QUALITY CONTROL	DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY OTHER THAN TEST	OTHER REQUIREMENTS	
4. Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		
5. Silica Sand	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		
6. Water	1 - Quality Test	One (1) per source		
7. Chemical Admixture	1 - Quality Test	One (1) per lot	Ž	
8. Polymer Curing Admixture	1 - Quality Test Original Mill Certificate	One (1) per lot	Engineer's Certificate	
9. Coloring Pigments	None	None	Engineer's Certificate	







MATERIAL OR PRODUCT		CONTRACTOR'S QU	DPWH QUALITY ASSURANCE	
	TEST REQUIRED	One bay per ELEGNENCA of cach 928 m ² , whichever provides the greate	OTHER THAN TEST	OTHER REQUIREMENTS
iteel Framing Materials	Original Mill Certificate	element		
1. Metal Studs and Track	1 - Tensile Strength 1 - Yield Strength 1 - Zinc Coating Test	One (1) per lot for each size		Engineer's Certificate
	Original Mill Certificate	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
2. Structural Tubing	1 - Quality Test	One (1) per lot per shipment for each size	h	Engineer's Certificate
		CONTRACTOR'S Q	MALITY CONTROL	DPWH QUALITY ASSORANCE
3. Flex Anchors	1 - Quality Test	One (1) per lot per shipment for each size		Engineer's Certificate
Reinforcing Steel (Deformed)	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof	TURES, VOLUME III, 2019 EDITI fures, and Water Supply System	S)
,	SCHEDULE OF MINIT	YUM TESTING REQUIREMENTS GOVER	NING LIEMS OF WORK OF THE	
5. Headed Stud Embed Anchors	1 - Quality Test	One (1) per lot per shipment for each size		Engineer's Certificate
6. Anchor Bolts	1 - Quality Test	One (1) per lot per shipment for each size		Engineer's Certificate
AND THE STREET	NIN LITEUMANC	The state of the s	mum resting Requireme	
GFRC Composites	1-Quality Test Original Mill Certificate	One (1) per lot		Engineer's Certificate





		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1055 - INTERIOR CEME	NTITIOUS FIREPROOFING			
Sprayed Cementitious Fireproofing Materials	g 1 - Quality Test Original Mill Certificate	One (1) per lot per type of structural element		Engineer's Certificate
	1 - Thickness Test 1 - Density Test	One bay per floor or one bay for each 929 m², whichever provides the greater number of tests		
ITEM 1056 - ASPHALT ROOF S	SHINGLES			
Asphalt Roof Shingles	1 - Quality Test Original Mill Certificate	One (1) per lot	TREADON TO STATE OF STORY	Engineer's Certificate
Ventillation	None	None		Engineer's Certificate
Sheating a. Corrugated G.I. Sheet	1 - Quality Test Original Mill Certificate	One (1) per lot	Our see the temperature	Engineer's Certificate
		1		





MATERIAL OR PRODUCT	1 - Quality Test	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	MOUR TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Vood Batten	None	None		Engineer's Certificate
Underlayment	1 - Quality Test Original Mill Certificate	One (1) per lot		Engineer's Certificate
asteners	None	None FREQUENCY	OTHER THAN TEST	Engineer's Certificate
Asphalt Roof Cement	1 - Quality Test Original Mill Certificate	One (1) per lot	Q IALITY CONTROL	Engineer's Certificate
Orip and Rake Edge	None	None		Engineer's Certificate
TTEM 1058 - FLOOD PROTECT	None	Noue HUM TESTING REQUIREMENTS GOVE ICATIONS FOR PUBLIC WORKS STREET TO STR		Engineer's Certificate
Window Cover Flood Barrier	None	None		Engineer's Certificate
MOKK?	HICHMAYS	None	nimum Testing Requireme	Engineer's Certificate
Swinging Flood Gate	None	None	Toching Doniego	





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
Flip-Up Flood Barrier	None	None		Engineer's Certificate	
Drop-down Flood Barrier	None	None		Engineer's Certificate	
Sliding Flood Barrier	None	None		Engineer's Certificate	
Glass Paneled Flood Barrier	None	None		Engineer's Certificate	
Sealings and Gaskets	1- Quality Test Original Mill Certificate	One (1) per lot for each type		Engineer's Certificate	
Coating 1. Powder Coating	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	5 47 7 75 75 66 76	Engineer's Certificate	
2. Zinc Coating (Galvanizing)	1 - Zinc Coating Test	One (1) per lot for each type		Engineer's Certificate	
Structural Concrete 1. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof			







MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
2. Fine Aggregate	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
Materials 1 - Quality Test	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	Concrete Monitoring Record	UI DEK KEŲOTKEMERI IS
3. Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		DPWH QUALITY ASSURANCE
Pidentils	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		Α
4. Water	1 - Quality Test		TURES, VOLUME III, 2019 EDITI	DM C
5. Chemical Admixture	1 - Quality Test	A COLUMN TO THE RESIDENCE OF THE PARTY OF TH	HING TIEMS OF WORK OF THE	
6. Curing Compound	1 - Quality Test	One (1) per lot		
7. Expansion Joint Materials	1 - Quality Test	One (1) per lot for each thickness of filler	mum Testing Requireme	nts





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL DPWI		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
8. Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	
	1 - Compressive Strength Test	One (1) - set of three (3) concrete cylinder samples for every 75 m ³ of each class or fraction thereof placed each day		
9. Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof		
		PART F - ELECTRICAL		

Conduit, Boxes and Fittings	None	None		Engineer's Certificate
Rigid Metall Conduit (RMC)	None	None	2 2	Engineer's Certificate
Intermediate Metal Conduit (IMC)	None	None		Engineer's Certificate







MATERIAL OR PRODUCT		CONTRACTOR'S QU	DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Flexible Metal Conduit (FMC)	None	None		Engineer's Certificate
Electrical Metallic Tubing (EMT)	None None	None WAR CHARLE CALESCONICE AT THE	DESCRION DEVICES	Engineer's Certificate
Rigid Polyvinyl Chloride Conduit (PVC)	None	None	OTHER THAN TEST	Engineer's Certificate
iquidtight Flexible Nonmetallic Conduit (LFNC)	None	Noue CONTRACTOR'S Q	JALITY CONTROL	Engineer's Certificate
Veatherhead	None	None	and the second second second	Engineer's Certificate
Conduit Boxes, Fittings and	None WHISTANDARD SPECIFICA	Mana	TURES, VOLUME III, 2019 EDITI	Engineer's Certificate
TEM 1101 - WIRES, CABLES	AND WIRING DEVICES	TELEVISCO CONTINUENCE CONTINUE		
Vires and Cables	None	None		Engineer's Certificate
witches DEBARIN	None	None	mum Testing Requireme	Engineer's Certificate
Receptacles	None	None		Engineer's Certificate





		CONTRACTOR'S QU	DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1102 - POWER LOAD CEN	TER, SWITCHGEAR AND PANELBO	ARDS, AND OTHER OVERCURRENT PRO	OTECTION DEVICES	
Panelboard with Main & Branch Breakers	None	None		Engineer's Certificate
Motor Control Center with Main, Branch Breakers and Motor Starters/Controllers, NEMA 1, Flushed Type	None	None	- · · · · · · · · · · · · · · · · · · ·	Engineer's Certificate
Copper Bus Bar NEMA I Enclosure, Surface Mounted	None	None		Engineer's Certificate
Manual Transfer Switch with Renewable Fuse, Flushed Type	None	None		Engineer's Certificate
Manual Transfer Switch, Breaker Type, Free Standing	None	None		Engineer's Certificate
Automatic Transfer Switch, Breaker Type, Flushed Type	None	None		Engineer's Certificate





MATERIAL OR PRODUCT	1 -	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Automatic Transfer Switch, Breaker Type, Free Standing	None None	None		Engineer's Certificate
Pad Mounted Distribution Transformer (OISC) with Complete Accessories		None	OTHER THAN TEST	Engineer's Certificate
Pad Mounted Power Transformer (OISC) with Complete Accessories, single or three phase, Free Standing		None CORRECTOR	JALITY COMTROL	Engineer's Certificate
Pole Mounted Distribution Fransformer (OISC) with Complete Accessories, Pole Type	DPWH STANDARD SPECIFICA (Buildings, Ports and Harbot	TONS FOR PUBLIC WORKS STRUC	TUPES, VOLUME III, 2019 EDITI	Engineer's Certificate
Pole Mounted Power Transformer (OISC) with Complete Accessories, single or three phase, Pole type or Flatform		None WE SECREBENEZ COARB	NEWG ITEMS OF WORK OF THE	Engineer's Certificate
Ory Type Transformer, single or three phase, Free Standing or Flatform	None	None	mun Testino Requireme	Engineer's Certificate





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL DPWH QUA		
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Current Transformer	None	None		Engineer's Certificate
Potential Transformer	None	None		Engineer's Certificate
Isolation Transformer	None	None		Engineer's Certificate
Generator, single or three phase, Stand-by	None	None		Engineer's Certificate
Generator, single or three phase, Continuous	None	None	-	Engineer's Certificate
Synchronizing Panel for Generators	None	None		Engineer's Certificate
Solar Panel with inverter, battery and other devices	None	None		Engineer's Certificate
Apitong or Approved Equal Creosoted Wood Pole	None	None		Engineer's Certificate
Anchor Rod	None	None	a sa fin	Engineer's Certificate
Anchor Log	None	None		Engineer's Certificate





MATERIAL OR PRODUCT	NOTE	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Powerload Studs with Nuts	None	None		Engineer's Certificate
Repair/Replacement of Power Load Center, Switchgear and Panelboards, and other		None		Engineer's Certificate
Overcurrent Protection Devices		EREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1103 - LIGHTING FIXTUR	RES			
Linear Flourescent Fixtures	None	None		Engineer's Certificate
Compact Flourescent Fixtures	Noue midings, Ports and Har	bo- Noue of Control and Prainage Struct	tures, and Water Supply System	Engineer's Certificate
Environmental Rooms and Exterior Lighting Fixtures	None SCHEDULE OF MININ	None	AING ITEMS OF WORK OF THE THREE YOUNG HE SOAD POIT	Engineer's Certificate
Return Air Troffer	None	None		Engineer's Certificate
Emergency Exit Signs	None	None		Engineer's Certificate
Lamps	None	None MU	mum Testing Requirem	Engineer's Certificate
Ballasts for Flourescent	None	None		Engineer's Certificate





MATERIAL OR PRODUCT		CONTRACTOR'S QUA	CONTRACTOR'S QUALITY CONTROL DPWH QUALITY A		
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
Ballasts for Compact Flourescent Lamps	None	None		Engineer's Certificate	
Ballasts for High Intensity Discharge (HID) Lamps	None	None		Engineer's Certificate	
ITEM 1104 - AUXILIARY SYSTE	M				
		IN.		TE : 1 0 1/0 1	
Auxiliary System	None	None		Engineer's Certificate	
ITEM 1105 - NETWORK CABLIN	IG SYSTEM			027	
ITEM 1105 - NETWORK CABLIN	IG SYSTEM None	None		Engineer's Certificate	
TTEM 1105 - NETWORK CABLIN	IG SYSTEM			027	
Data Cabinet Distribution Frame Panel	IG SYSTEM None	None		Engineer's Certificate	
Data Cabinet Distribution Frame Panel Ferminal Block	IG SYSTEM None None	None None		Engineer's Certificate Engineer's Certificate	







MATERIAL OR PRODUCT	igoalt.	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Fiber Optic Cable	None	None		Engineer's Certificate
Fiber Connector	None	None		Engineer's Certificate
Patch Cord	None	None		Engineer's Certificate
Fiber Patch Cord	None LEZI BEÓLEKED	None	OTHER THAN TEST	Engineer's Certificate
Modular Jack	None	None CONTRACTOR'S	QIALITY CONTROL	Engineer's Certificate
Network Equipment (Servers, Fir Wall, Repeaters, etc.)	re None	None		Engineer's Certificate
JTP Cable	None and dings, Ports and Hari	Noue od Control and Drainage Str	ur tures, and Water Supply System	Engineer's Certificate
ITEM 1106 - CLOSED-CIRCUI	T TELEVISION (CCTV) SYSTEM None	Noue UM TESTING REOUREMENTS GOVE	FRAING ITEMS OF WORK OF THE	Engineer's Certificate
IP-Fixed Dome Camera	None	None		Engineer's Certificate
P-Pinhole Type Camera	None - DIBITE	None	nimum Testing Requirem	Engineer's Certificate
Movable Camera	None	None		Engineer's Certificate





MATERIAL OR PRODUCT		CONTRACTOR'S QU	DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Veather Proof Camera	None	None		Engineer's Certificate
ata Digital Video Recorder	None	None		Engineer's Certificate
letwork Video Recorder	None	None		Engineer's Certificate
Centralized Power Supply with	None	None		Engineer's Certificate
CD, LED Monitor	None	None		Engineer's Certificate
CTV Console	None	None		Engineer's Certificate
G59 Coaxial Cable	None	None		Engineer's Certificate
igital Disc Recorder	None	None		Engineer's Certificate
TEM 1107 - PUBLIC ADDRESS	SYSTEM			- An - 20 - 10 - 10 - 10 - 10 - 10 - 10 - 10
ublic Address System	None	None		Engineer's Certificate
ystem Management Amplifier	None	None		Engineer's Certificate
ower Amplifier	None	None		Engineer's Certificate



MATERIAL OR PRODUCT	Beada	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Voice Announcement Board	None	None		Engineer's Certificate
Remote Microphone	None SO BENDER EXELEN	None		Engineer's Certificate
CD/DVD Player	None	None		Engineer's Certificate
MP3 Player	None LEGAL REGALGED	None LECONEMCA	OTHER THAN TEST	Engineer's Certificate
USB	None	None COMISACTOR'S	QUALITY CONTROL	Engineer's Certificate
AM/ FM Tuner	None	None		Engineer's Certificate
Speakers	Noue Noue Ports and Ha	rbor Noue Control and Drainage Str	urtures, and Water Supply System	Engineer's Certificate
Fabricated Rack	None MARZINADARO EBECTA	None = 505 bilbill MOSKE PLB	IGTURES, VOLUME III, 2019 EDITI	Engineer's Certificate
Booster Transformer	None	None None	TOTAL TENS OF WORK OF THE	Engineer's Certificate
External Volume Control	,	None		Engineer's Certificate
Horn WORKS A	None	None		Engineer's Certificate
Wires/Cables	None	None	minum Testing Requirem	Engineer's Certificate





		CONTRACTOR'S QU	ALITY CONTROL	DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1108 - DOOR ACCESS AN	D CARD READER SYSTEM			
Door Access and Card Reader System	Performance and Functionality Verification Test Comissioning Test	One (1) per lot		Engineer's Certificate
Security Cabinet	None	None		Engineer's Certificate
Magnetic Card	None	None		Engineer's Certificate
Magnetic Door Contact	None	None		Engineer's Certificate
ITEM 1109 - GROUNDING SYST	ГЕМ	10. * . 1: 45.64*		
Grounding System	None	None		Engineer's Certificate
Exothermic Weld Connector	None	None		Engineer's Certificate
Booster pump with control	None	None	the action of the second	Engineer's Certificate
Air Terminal	None	None		Engineer's Certificate





MATERIAL OR PRODUCT	i Grane Engl	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Bare Copper Wire	None	None		Engineer's Certificate
Grounding Clamps for Electric Wires	Noue MICAL/CIVIL WORKS	None		Engineer's Certificate
Grounding Rod Copper Clad	None	None	OTHER THAN TEST	Engineer's Certificate
ITEM 1110 - NURSE CALL SYS	TEST REQUIRED.	CONTRACTOR'S		
Nurse Call System	None	None		Engineer's Certificate
Area Control Unit (ACU)	Noue Suildings, Ports and Har	hor Noue od Control and Drainage Str	uctures, and Water Supply Syst	Engineer's Certificate
Nurse Call Console	None WIT STANDARD ERECTE	None None	RHING ITEMS OF WORK OF THE ICTURES VOLUMETIL, 2019 ED	Engineer's Certificate
Patient Bed Station	None	None	DISTRIBUTE VEHICLE OF TH	Engineer's Certificate
Corridor Lights and Zone Lights	None	None		Engineer's Certificate





		CONTRACTOR'S QU	IALITY CONTROL	DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1111 - MISCELLANEOUS	ELECTRICAL/CIVIL WORKS			
Reinforced Concrete Pedestel/Pole, Envelope/Encasement				Last States
1. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof		
2. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	Tatal	
3. Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		7 9 7





MATERIAL OR PRODUCT		CONTRACTOR'S QU	DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
4. Water	1 - Quality Test	One (1) per source		Engineer's Cerbhoate
5. Chemical Admixture	1 - Quality Test	One (1) per lot		Engineer's Certificate
6. Curing Compound	1 - Quality Test	One (1) per lot	ALUEN TINUTES	DULLA ACQUITMENTS
7. Reinforcing OB BEODACL Steel	1 - Quality Test	One (1) for every 10,000 kg per size/source or fraction thereof		DPWH QUALITY ASSURANCE OTHER REQUIREMENTS
Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	
	1 - Compressive Strength Test	cylinder samples for every 75 m ³ of each		
Hand Hole	None	None		Engineer's Certificate
Man Hole WORKS A	None I CHWAYS	None	mum Testing Requireme	Engineer's Certificate
Cable Tray	None	None	offer W. S. College Co.	Engineer's Certificate





		CONTRACTOR'S	QUALITY CONTROL	DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
lounting Bolts/Eye Bolts	None	None		Engineer's Certificate
rench Excavation	None	None		Engineer's Certificate
Spool Insulator Secondary Rack	None	None	The second secon	Engineer's Certificate
e e e estado e estado.	27 FE ELEVEN	PART G - MECHANICAL		

Air Conditioning System, VRF/VRV	None	None	and a state of the	Engineer's Certificate
Ventilation System	None	None	DATE THE PLANT OF THE PARTY OF THE	Engineer's Certificate
Refrigerants	None	None		Engineer's Certificate
Ventilating Equipment	None	None		Engineer's Certificate
Oscillating Stand Fan	None	None		Engineer's Certificate





MATERIAL OR PRODUCT	y100L	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Oscillating Wall Fan	None	None		Engineer's Certificate
Oscillating Ceiling Fan	None	None		Engineer's Certificate
Stand Fan Industrial Type	None	None	DINER HAWLER	Engineer's Certificate
Propeller Wall, Mounted Fan	None TEST POULRED	None	THE HELD THE TEST	Engineer's Certificate
Propeller Ceiling Fan	None	None	CONTROL	Engineer's Certificate
Propeller Tube Axial Fan Roof Mounted	1	ors, Flood Control and Drainage Structures, Noue	and Water Supply System	Engineer's Certificate
Exhaust Fan Ceiling Casette	None CHEDITE OF MINIM	Noue None	TEMS OF WORK OF THE WOLLINE LTL 2019 SOLD	Engineer's Certificate
Exhaust Fan Wall Mounted	None	None		Engineer's Certificate
Exhaust Fan Wall Mounted, Industrial Type	None D HIGHWAYS	None		Engineer's Certificate
Exhaust Fan Tubular in Line	None L BORTE	None	Techina Requireme	Engineer's Certificate





MATERIAL OR PRODUCT	+	CONTRACTOR'S QUA	DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Supply Fan Ceiling Casette	None	None		Engineer's Certificate
Centrifugal Cabinet in Line Fan Ducted Type (CCI)	None	None		Engineer's Certificate
Centrifugal Fan Backward Inclined	None	None		Engineer's Certificate
Kitchen Hood	None	None		Engineer's Certificate
induced Jet Fan	None	None	-	Engineer's Certificate
Air Conditioning System, Centralized Air-Condition Ducting	None	None		Engineer's Certificate
ITEM 1201 - WATER PUMPING	STATION			
Centrifugal pump with control	1 - Pump Performance Test	One (1) for every size for each station		Engineer's Certificate
Submersible Multi-Stage Deepwell bump with control	1 - Pump Performance Test	One (1) for every size for each station		Engineer's Certificate





DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Minimum Testing Requirements

MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANC
	NOTICES TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Booster pump with control	1 - Pump Performance Test	One (1) for every size for each station		Engineer's Certificate
Jet pump with control LOW 2A211	1 - Pump Performance Test	One (1) for every size for each station		Engineer's Certificate
Water tank	None	None		Engineer's Certificate
Saddle for Water Tank	Noue TEST REQUIRED	None EBEONEMCA	OTHER THAN TEST	Engineer's Certificate INEMENTE
Overhead Tank (Stainless, Galvanized Iron, Polyethylene, Concrete)		None COMPRACTOR'S QUA	ALITY CONTROL	Engineer's Certificate
	Noue (Buildings, Ports and Ha	rbor Noue Control and Drainage Struct	unes, and water Supply Syste	Engineer's Certificate
Electrode	None WH STANDAPD SPECIE	TICA Noue 5 FOR PUBLIC WORKS STRUCT		Engineer's Certificate
Submersible sewage ejector pump with control	None SCHEDARE OF MANY	None	THG TEMS OF WORK OF THE	Engineer's Certificate
ITEM 1202 - AUTOMATIC WAT	ER SPRINKLER SYSTEM (AFSS)		num Testing Requirer	HCHES
Automatic Water Sprinkler System	1 - Hydrostatic Test	One (1) per lot	Men Joseph & Modificat	Engineer's Certificate





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL DPWH C		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1203 - ELEVATOR SYSTE	M and the second			
Electric Elevator	1 - Performance/Acceptance Test	One (1) per car and type used		Engineer's Certificate
ITEM 1204 - ELECTRIC DUMB	WAITER			, , , a= b'
Electric Dumbwaiter	None	None		Engineer's Certificate
ITEM 1205 - OXYGEN, NTROU Oxygen, Ntrous Oxide, Gas Manifold and	S OXIDE, VACCUM AND FUEL GAS 1 - Pump Performance Test	One (1) for every size for each station		Engineer's Certificate
Duplex Vacuum Pump				
Humidifier, Vacuum Trap	None	None	77° ° - 17° ° ° °	Engineer's Certificate
Bottle Outlets, Valves				





DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Minimum Testing Requirements

MATERIAL OR PRODUCT		CONTRACTOR'S QU	ALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1206 - HEATING SYSTEM	I - Gualiby Fag	One (1) for every 1 500 m² per source or		
Boiler (including fittings and attachments)	None	None (1/ 10/ 6/6/7) As its as header		Engineer's Certificate
Pipings, Fittings and Valves	None TEST REQUIRED	None	Other with there	Engineer's Certificate
Dil Transfer Pump	1 - Pump Performance Test	One (1) for every size for each station	JALITY CONTROL	Engineer's Certificate
Fuel Storage Tank	None	None		Engineer's Certificate
Fuel Day Tank		Noue od Control and Drainage Strur	tures, and Water Supply System	Engineer's Certificate
Power Supply (pull box, main circuit breaker, starter, conduits, wirings, fittings, devices and all other equipment)		Noue TING REQUIREMENTS GOVER	AING ITEMS OF WORK OF THE TURES, YOUUME LEE, 2019 EDITE	Engineer's Certificate
DEPARTMI Cement WORKS A	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof	mum Testing Requireme	nts





51		CONTRACTOR'S Q	UALITY CONTROL	DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		
Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		e
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	r	
Water	1 - Quality Test	One (1) per source	MAR AND THE BUSE	ų.
Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	
	1 - Compressive Strength	One (1) - set of three (3) concrete cylinder samples for every 75 m³ of each class or fraction thereof placed each day		
Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg per size/source or fraction thereof	r	



MATERIAL OR PRODUCT		CONTRACTOR'S QUA	CONTRACTOR'S QUALITY CONTROL	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1207 - BOILER	уют	None		Enginec" s Certificate
Boiler (including fittings and attachments)	1 - Hydrostatic Test	One (1) per lot	OTHER DIAM LESS	Engineer's Certificate
ITEM 1208 - FIRE ALARM SYS	TEST REQUYRED	CONTRACTOR'S QUA		DPWH QUALITY ASSURANCE
Smoke Detector with Base	None	None		Engineer's Certificate
Heat Detector with Base	Noue Buildings, Ports and Har		ures, and Water Supply System	Engineer's Certificate
Fire Alarm Bell	None SCHEDULE OF MININ	News	ING TTEMS OF WORK OF THE	Engineer's Certificate
Fire Alarm Control Panel	None	None		Engineer's Certificate
Manual Pull Station Switch	None	None		Engineer's Certificate
Back-up Battery Pack	None	None	num Testing Requireme	Engineer's Certificate
Automatic Voltage Regulator	None	None		Engineer's Certificate





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Extended Power Supply	None	None		Engineer's Certificate
Loop Expander Module	None	None		Engineer's Certificate
Loop Control Module	None	None		Engineer's Certificate
Annunciator Addressable Module	None	None		Engineer's Certificate
		PART H - PILING		
ITEM 1300 - PILING	DISCRIPTION OF THE PROPERTY OF			
Timber Piles		One (1) per shipment for each size		



MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
Concrete Piles (Bridges)		One (1) per size of pile and for each abutment and every other pier (for multispan bridges)			
	1 - Dynamic Load Test	At least 50% of the total number of Piles at each abutment and pier At least one (1) at each abutment and pier	OTHER THAN TEST	DPWH QUALITY ASSURANCE OTHER REQUIREMENTS	
Concrete	1 - Slump Test 1 - Compressive Strength		Concrete Monitoring Record CREES, AND WASTER SUDDIY SYSTEMS!) FURES, WOLUME III 2019 EDITIY FURES, WOLUME III 2019 EDITIY FURES, WOLUME III 2019 EDITIY		
1. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof			



	CONTRACTOR CONTRACTOR	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
2. Fine Aggregate	1 - Grading Test	One (1) for every 75 m³ or fraction thereof			
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof			
3. Coarse Aggregate	1 - Gradino Test	One (1) for every 75 m ³ or fraction thereof	7 (2 1, 5) = 19 (5)		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof			
4. Water	1 - Quality Test	One (1) per source	ikez konas un an enure	VI	
5. Chemical Admixture	1 - Quality Test	One (1) per lot	Min. 5280/2		
6. Special Curing Agent	1 - Quality Test	One (1) per lot		0 10 00 00 00 00 00 00 00 00 00 00 00 00	
7. Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg per size/source or fraction thereof	nun Tastiny eequareme	\$50	





DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Minimum Testing Requirements

MATERIAL OR PRODUCT	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	Ous (7) to FREQUENCY or traction OTHER THAN TEST	OTHER REQUIREMENTS
Steel Pipes Piles/Steel Pipe Sheet Piles	1 - Quality Test	One (1) per lot for each pile type/size Welding Report used	
Steel H-Piles	1 - Quality Test	One (1) per lot per shipment for each size Welding Report	
Steel Sheet Piles	1 - Quality Test	One (1) per lot for each pile type/size of Welding Report & INVALENT material used	OTHER REQUIREMENTS
Polyvinyl Chloride (PVC) Sheet Piles	1 - Quality Test Original Mill Certificate	One (1) per lot for each pile type/size of material used	Engineer's Certificate
Steel Pile Shoes	1 - Quality Test	One (1) per lot for each size Welding Report	
Paint 20-L Cans	1 - Quality Test	One (1) for every 100 cans or fraction thereof	
4-F Cans DEPARTM	1 - Quality Test	One (1) for every 100 cans or fraction thereof	ents





		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
Cement Mortar	1 - Compressive Strength Test	One (1) set per pouring day			
1. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof			
2. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof	The second second second	스타() 제공 () - 12 () - 12 () - 12 () - 12 () - 12 () - 12 () - 12 () - 12 () - 12 () - 12 () - 12 ()	
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof			
3. Water	1 - Quality Test	One (1) per source	ta' signi isanin gazif 18 gilin ma		
Slurry	1 - Quality Test Original Mill Certificate	One (1) per lot for each type		Engineer's Certificate	





DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Minimum Testing Requirements

[] Liver La Lyser (Bridges)	1 - Me Inlegrity Text	CONTRACTOR'S QU	CONTRACTOR'S QUALITY CONTROL	
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
JUDA - 105 - LEWBER CERSIES	Original Mill Contracts	PART I - PROTECTIVE WORKS AND ACCES	SSORIES	
Present Mes	I - Organia Tash	One (1) ser lot for each type		Frigi, ser's Cerénicatio
ITEM 1400 – MOORING FIXTU	RES		OTHER THAN TEST	OTHER MEGOTINEMENTS
Mooring Cleat (Spheroidal	1 - Quality Test BEORGED	One (1) per lot for each size	IALITY CONTROL	DPWH QUALITY ASSURANCE
Mooring Post (Spheroidal Graphite Cast Iron)	1 - Quality Test	One (1) per lot for each size		
Mooring Bitt (Spheroidal Graphite Cast Iron)	1 - Quality Test	One (1) per lot for each size	tures, and Water Supply System:)
Mooring Bollard (Spheroidal Graphite Cast Iron)	1 - Quality Test	One (1) per lot for each size	AING ITEMS OF WORK OF THE	217
ITEM 1401 - TIMBER WALING				
Timber MOBK2 VI	1 - QualityTest	One (1) per lot for each type	mum Testing Requireme	nts
Hardware	None	None		Engineer's Certificate





MATERIAL OR PRODUCT		CONTRACTOR'S QU	JALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Preservatives	1 - Quality Test Original Mill Certificate	One (1) per lot for each type		Engineer's Certificate
ITEM 1402 - FENDER CLUSTE	ERS AND DOLPHINS			
Timber Piles	1 - Quality Test	One (1) per shipment for each size		Start Charles
Concrete Piles (Bridges)	1 - Pile Integrity Test (CrossHole Sonic Logging Test and Low-Strain Pile Dynamic Test)	One (1) per size of pile and for each abutment and every other pier (for multispan bridges)		
	The state of the s	At least 50% of the total number of Piles at each abutment and pier		v.
	1 - Dynamic Load Test	At least one (1) at each abutment and pier	27 - 4 200 - 40 - 40 - 40 - 40 - 40 - 40 -	
Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	
	1 - Compressive Strength Test	One (1) - set of three (3) concrete cylinder samples from each 75 m ³ of each class or fraction thereof placed each day		



DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Minimum Testing Requirements

	i - Orelity Test	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT	1 - Onspitest required	FREQUENCY OUE (1) DOL OF DEL SHIPMENT FOR EACH SIZE	OTHER THAN TEST	OTHER REQUIREMENTS	
1. Cement 62 25 6 6106 2 Poet	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof	Welding Report		
2. Fine Aggregate	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof	OTHER DIVINE ITS	Αιμεν νεδοικεμεμιο	
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		DPWH QUALITY ASSURANCE OTHER REQUIREMENTS	
3. Coarse Aggregate	1 - Grading Test	One (1) for every 75 m³ or fraction thereof	tures, and water Supply Systems)	
	1 - Quality Test ADARD SPECIFICA	One (1) for every 1,500 m³ per source or fraction thereof	TURES, VOLUME III, 2019 EDITID	M	
4. Water	1 - Quality Test	One (1) per source			
5. Chemical Admixture	1 - Quality Test	One (1) per lot			
6. Special Curing Agent	1 - Quality Test	One (1) per lot	mum Testing Requireme	152	





		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
7. Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg per size/source or fraction thereof		
Steel Pipes Piles/Steel Pipe Sheet Piles	1 - Quality Test	One (1) per lot for each pile type/size used	Welding Report	
Steel H-Piles	1 - Quality Test	One (1) per lot per shipment for each size	Welding Report	
Steel Sheet Piles	1 - Quality Test	One (1) per lot for each pile type/size of material used	Welding Report	
Polyvinyl Chloride (PVC) Sheet Piles	1 - Quality Test Original Mill Certificate	One (1) per lot for each pile type/size of material used	noted access to bould access	Engineer's Certificate
Steel Pile Shoes	1 - Quality Test	One (1) per lot for each size	Welding Report	
Paint 20-L Cans	1 - Quality Test	One (1) for every 100 cans or fraction thereof		





DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Minimum Testing Requirements

		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT	TEST REQUIRED	One (1) per lot per shipment for each	OTHER THAN TEST	OTHER REQUIREMENTS	
4-L Cans	1 - Quality Test	One (1) for every 100 cans or fraction thereof			
Cement Mortar	1 - Compressive Strength Test	One (1) set per pouring day		Engineer's Certificate	
TO CEMENT OR PRODUCT	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof	OTHER THAN TEST	OTHER REQUIREMENTS	
2. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof	IALETY CONTROL	DPWH QUALETY ASSURANCE	
Pidentis	1 - Quality Lest Ports and Harbo	[C	TURES, VOLUME III, 2019 EDITI tures, and Water Supply System	1	
3. Water	1 - Quality Test	One (1) per source	NING TIEMS OF WORK OF THE		
Slurry	1 - Quality Test Original Mill Certificate	One (1) per lot for each type		Engineer's Certificate	
Extruder Fender	None	None MIUI	mum Testing Requireme	Engineer's Certificate	
Molded Fenders	None	None		Engineer's Certificate	





MATERIAL OR PRODUCT	1	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
Elastomer	1 - Quality Test Original Mill Certificate	One (1) per lot		Engineer's Certificate	
Bolts and Nuts	1 - Quality Test	One (1) per lot per shipment for each type/size			
Steel Plates and Angles	1 - Quality Test	One (1) per lot per shipment for each type/size		- Grand and Article	
ITEM 1403 - RUBBER DOCK FI	ENDERS				
Extruder Fender/ Molded Fender	1 - Quality test	One (1) per lot		Engineer's Certificate	
(Elastomer)	Original Mill Certificate	LES THE REST. MENTERS OF THE GO			
Foam-Filled Fender (Foam Core and Elastomer)	1 - Quality test Original Mill Certificate	One (1) per lot		Engineer's Certificate	
Pneumatic and Hydro-Pneumatic	1 - Quality Test	One (1) per lot	e - Capai adam no	Engineer's Certificate	





MATERIAL OR PRODUCT	TEST REQUIRED	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
		One (a) - LEEGNENCA (3) concrete	OTHER THAN TEST	OTHER REQUIREMENTS	
Bolts and Nuts	1 - Quality Test	One (1) per lot per shipment for each type/size	oncrete Manitonng Record		
Stainless Steel Plates and Angles	1 - Quality Test	One (1) per lot per shipment for each type/size	OLBER HAW (CO)	OTPEN NEQUINEPERIS	
TEM 1404— FILTER FABRIC A	AND AGGREGATES	CONTRACTOR'S QUA	LEFY CONTROL	DPWH QUALITY ASSURANCE	
Filter Fabric Material	1 - Quality Test Original Mill Certificate	One (1) for each lot and type of material used	nres, and water Supply System	Engineer's Certificate	
ilter Aggregate Material	1 - Grading Test	One (1) for every 75 m ³ or fraction	ING TTEMS OF WORK OF THE URES, VOLUME III, 2019 EDITI	ON	
ITEM 1405 - REINFORCING M	AT				
Reinforcing Mat	1 - Quality Test Original Mill Certificate	One (1) per lot		Engineer's Certificate	





MATERIAL OR PRODUCT	TEST REQUIRED	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
		FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
TEM 1406 - DEFLECTOR WAL	L, BULKHEAD CURB, STAIR LAND	DING			
Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	man to make the second of the	
	1 - Compressive Strength	One (1) - set of three (3) concrete cylinder samples from each 75 m ³ of each class or fraction thereof placed each day			
1. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof	1		
2. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof	DESCRIPTION AND THE PARTY		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof			



		LMO (5) DOLOR CONTRACTOR'S QUA	LITY CONTROL	DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	One (1) for election	OTHER THAN TEST	OTHER REQUIREMENTS
3. Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	OTHER THAN TEST	OTHER REQUIREMENTS
4. Water WOOM BRODACL	1 - Quality Test SEGNISED	One (1) per source	2001120 20130 220	
5. Chemical Admixture	1 - Quality Test	One (1) per lot	ALTTY CONTROL	
6. Special Curing Agent	1 - Quality Test	One (1) per lot	ures, and water supply system)
Reinforcing Steel	1 - Quality Test MD VBD 2BECKLICA 2CHEDDIE OF MINIMU	One (1) for every 10,000 kg per		M
Forms and Falseworks 1. Timber	1 - Quality Test	One (1) per lot for each type		
2. Preservatives	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	num Testing Requireme	Engineer's Certificate





MATERIAL OR PRODUCT	2 To 1 To 1	CONTRACTOR'S QU	TOR'S QUALITY CONTROL DPWH QUALI		
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
3. Metal	1 - Quality Test	One (1) per lot for each type/size	Welding Report		
4. Plastic	1 - Quality Test	One (1) per lot for each type/size			
Masonry (Clay or Shale Brick, Concrete Brick and Concrete Masonry Blocks)	1 - Quality Test	One (1) for every 10,000 units or fraction thereof	1 =		
		Two (2) per lot of more than 10,000 and less than 100,000	and		
	versamba wood to son	For lots of more than 100,000 units - One (1) per 50,000 units	and the second second		
Mortar	1 - Compressive Strength Test	One (1) set per pouring day	1622.91 1 1	ls.	
Structural Steels	1 - Quality Test	One (1) per lot per shipment for each size		· · · · · · · · · · · · · · · · · · ·	
ITEM 1407- PRECAST BREAK	WATER STRUCTURE	i maxiy	o s savistico e espera		
Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record		





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	1 - Quality Test REGNIKED	FREQUENCY FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Coena al Camixture Succial Curren Agent	1 - Compressive Strength	One (1) - set of three (3) concrete cylinder samples from each 75 m ³ of each class or fraction thereof placed each		
Cement OR PRODUCT	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof	OTHER THAN TEST	OTHER REQUIREMENTS
Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof	IALITY CONTROL	DPWH QUALITY ASSURANCE
Pidecidis	1 - Quality Test	maction thereof	TUKES, VOLUME III, 2019 EDITION tures, and Water Supply Systems)
Coarse Aggregate Materials	1 - Grading Test OF MINIM	One (1) for every 75 m ³ or fraction thereof		114
B. A. F.	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		
Water DEBYKIN	1 - Quality Test	One (1) per source	mum Testing Requiremen	lis





		CONTRACTOR'S QUAL	CONTRACTOR'S QUALITY CONTROL DPWH QUALITY	
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Chemical Admixture	1 - Quality Test	One (1) per lot		
Special Curing Agent	1 - Quality Test	One (1) per lot		
Expansion Joint Materials	1 - Quality Test	One (1) per lot for each thickness of filler	F - 158 - 255 - 1	
Preformed Elastomeric Compression Joint Seals	1 - Quality Test	One (1) per lot for each type		6 6, 1 ° 1 ° 1 ° 1 ° 1 ° 1
Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg per size/source or fraction thereof		-
	1	PART J - BULKHEADS	and the second of the second o	
ITEM 1500 - SAND MATTRESS		e di estre del como para de la consenia del consenia del consenia de la consenia del consenia del consenia de la consenia della consenia dell		1 40 20 3
Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		ž, prvo





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		
Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof	OTHER THAN 1551	OTALE WEQUIPERSON
MATERIAL OR PRODUCT	1 - Quality Test	One (1) for every 1,500 m³ per source or fraction thereof	IALITY CONTROL	DPWH QUALITY ASSURANCE
ITEM 1501 - ROCKWORKS	(is, ribou chita bi ana bi aniage sa se		
Rocks	1 - Specific Gravity 1 - Abrasion Test 1 - Absorption Test	One (1) for every 3,000 m³ per source or	Annual Mahan Committee Combiner	Engineer's Certificate
Concrete Grout 1. Cement ANORES V	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof	mum Testing Kequireme	nts
2. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		





MATERIAL OR PRODUCT		CONTRACTOR'S QU	CONTRACTOR'S QUALITY CONTROL DPWH QUALITY AS		
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof			
3. Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof			
= q ₌ , t = t ₀ r ₀ ,	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	$g_1 \circ g_2 = g_1 \circ g_2$	Day on the standards	
4. Water	1 - Quality Test	One (1) per source			
Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record		
	1 - Compressive Strength Test	One (1) - set of three (3) concrete cylinder samples for every 75 m ³ of each class or fraction thereof placed each day			





Minimum Testing Requirements

	1 - Organic Contera	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1503 – EXCAVATION FO	PR WATERFRONT IMPROVEMENT	PART K - WATER SUPPLY		
Waste	1 - Grading Test	One (1) for every 3,000 m³ per source or		Engineer's Certificate
excavated material	1 - Plasticity Test 1 - Organic Content	fraction thereof		OTHER REQUIREMENTS
Excavated materials to be incorporated into the works	1 - Grading Test 1 - Plasticity Test 1 - Compaction Test 1 - Organic Content 1 - California Bearing Ratio (CBR)	One (1) for every 3,000 m³ per source or fraction thereof		DPWH QUALITY ASSURANCE
	1 - Field Density Test (FDT)	For every 1,000 m² of each layer of compacted fill or fraction thereof at least one (1) group of three (3) in-situ density tests. The layers shall be placed not exceeding 200 mm in loose measurement or based on the result of compaction trials.	NING ITEMS OF WORK OF THE	





		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
		PART K - WATER SUPPLY		
ITEM 1600 - EXCAVATION				
Waste excavated material	1 - Grading Test 1 - Plasticity Test 1 - Organic Content	One (1) for every 3,000 m³ per source or fraction thereof		Engineer's Certificate
Excavated materials to be incorporated into the works	1 - Grading Test 1 - Plasticity Test 1 - Compaction Test 1 - Organic Content 1 - California Bearing Ratio (CBR)	One (1) for every 3,000 m³ per source or fraction thereof		





Minimum Testing Requirements

SCHEDULE OF MINIMUM TESTING REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES, VOLUME III, 2019 EDITION (Buildings, Ports and Harbors, Flood Control and Drainage Structures, and Water Supply Systems)

		CONTRACTOR'S QUALI	CONTRACTOR'S QUALITY CONTROL DPWH QUALITY	
MATERIAL OR PRODUCT	TEST REQUIRED	exceeding 200 mm in loose measurement or based or LEEÓNENCA of compaction trials.	OTHER THAN TEST	OTHER REQUIREMENTS
MATERIAL OR PRODUCT	1 - Field Density Test (FDT) (For every 1,000 m² of each layer of compacted fill or fraction thereof at least one (1) group of three (3) in-situ density tests. The layers shall be placed not exceeding 200 mm in loose measurement or based on the result of compaction trials.	OTHER THAN TEST	OTHER REQUIREMENTS
EM 1601 - FILL AND BACKF.	TI	CONTRACTOR'S QUAL	ITY CONTROL	DPWH QUALITY ASSURANCE
	It. Conding Took	One (4) for even 2 000 m3 new course or		1
ll and Backfill	 1 - Grading Test 1 - Plasticity Test 1 - Compaction Test 1 - Organic Content 1 - California Bearing Ratio (CBR) 	One (1) for every 3,000 m³ per source or fraction thereof		TION mf)



WORKS AND HIGHWAYS

finimum Testing Requirements



	=	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
	1 - Field Density Test (FDT)	For every 1,000 m ² of each layer of compacted fill or fraction thereof at least one (1) group of three (3) in-situ density tests. The layers shall be placed not			
	the sections	exceeding 200 mm in loose measurement or based on the result of compaction trials.			
Item 1602 - PIPELINE SYSTEN		COMES TO SECURITION	TRANSPORT		
Mortar Lined and Enamel Mortar Coated Steel Pipe	(gray, #8' caprum yaya USAN ZIVNDYKD energic	THE OWNER AND ADDRESS OF THE PARTY OF THE PA	ent bugger i pebak ge seek	for	
a. Cement	1 - Quality Test	TOTILE (1) TOT EVERY 2,000 DAGS OF TRACLIONS	WE TO DESCRIPTION OF THE		
b. Fine Aggregates	1 - Grading Test	One (1) for every 75 m³ per source or fraction thereof			
	A PART OFFICE	One (1) for every 1,500 m ³ per source or	LINE TO STORY REPORTS OF	In The Control of the	



MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
c. Water	1 - Quality Test	One (1) per source		Poemocial Cadalitatio
d. Cylinder Material (Hot Rolled Carbon	1 - Quality Test	One (1) per lot per shipment for each size		
Steel Sheets or Plates)	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	Engineer's Certificate
e. Rubber Gasket	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	JALITY CONTROL	Engineer's Certificate
f. Coating	(managinida) uni ca mon i mi		more than the combined at a con-	
- Coal Tar Enamel	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	1	Engineer's Certificate
- Cement Mortar	1 - Compressive Strength Test	One (1) set per pouring day		
ast Iron and Ductile Iron ater Pipe	1 - Quality Test Original Mill Certificate	One (1) per lot	mum Testing Requiremen	Engineer's Certificate
- Brover	NT OF PUBLIC	Miln	mum Tasting Spanicant	ONT.





	1	CONTRACTOR'S QU	CONTRACTOR'S QUALITY CONTROL	
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Polyvinyl Chloride (PVC) Pipe	1 - Quality Test Original Mill Certificate	One (1) per lot		
Polvethylene (PE) Plastic Pipe	1 - Ouality Test Original Mill Certificate	One (1) per lot		Engineer's Certificate
ITEM 1603 - VALVES				
Gate Valve	None	None		Engineer's Certificate
Globe Valve	None	None	A 1 2 2 2 2 2 2 2 2	Engineer's Certificate
Double Regulating Valve	None	None		Engineer's Certificate
Check Valve	None	None		Engineer's Certificate
Butterfly Valve	None	None		Engineer's Certificate
Pressure Reducing Valve	None	None	18 - 2.1 - 15 1.0/3 1.8 1.2.2	Engineer's Certificate
	T .	14		



MATERIAL OR PRODUCT	Land Service Control Control	CONTRACTOR'S QUAI	LITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Float Valve	None	None (1) but jot tor sach type		Engineer's Certificate
Automatic Air Valve	None That Many Es vive	None		Engineer's Certificate
ITEM 1604 - WATER TREATM		FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Water Treatment Plant (WTP), Modular/Skid Type	TEST REQUIRED	CONTRACTOR'S QUA	LITY CONTROL	DPWH QUALITY ASSURANCE
Pre-Filtration Treatment System	(Buildings, Ports and Har Noue	ber 4, Flood Control and Drainage Structs Noue		Engineer's Certificate
2. Activated Carbon Filtration	None SCHEDOLE OF MENTA	INone	NG ITEMS OF WORK OF THE INES, VOLUME III, 2019 5 DITI	Engineer's Certificate
3. Water Softener System	None	None		Engineer's Certificate
4. Ultra-Filtration System	None	None		Engineer's Certificate





		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
Item 1605 - FILTER FABRIC W	ITH ALUMINUM FRAME				
Filter Fabric	1 - Quality Test Original Mill Certificate	One (1) per lot for each type		Engineer's Certificate	
Aluminum Frame	1 - Quality Test Original Mill Certificate	One (1) sample from each end of each parent coil, or parent plate, but no more than one sample per 1000 kg of sheet or 2000 kg of plate, or part thereof, in a lot		Engineer's Certificate	
Screws, rivets and other miscellaneous fastening devices	None	None		Engineer's Certificate	



(9-511)	CONTRACTOR'S QUA	CONTRACTOR'S QUALITY CONTROL	
TEST REQUIRED	ELEGNENCA LANGUE EVENT AND	OTHER THAN TEST	OTHER REQUIREMENTS
1 - Plasticky Test 1 - Compaction Test 1 - Organic Content	ART L - FLOOD AND RIVER CONTROL AND I	DRAINAGE	
11 - Gradina Test	One (1) for every 3,000 m² per source or		
GRUBBING		OTHER THAN TEST	
None TEST REQUIRED	None		Engineer's Certificate
	CONTRACTOR'S Q	ALITY CONTROL	DPWH QUALITY ASSURANC
DPWH STANDARD SPECIF	TCALLONS FOR PUBLIC WORKS STRUCT		LION
1 - Grading Test1 - Plasticity Test1 - Organic Content	One (1) for every 3,000 m³ per source or fraction thereof	ING ITEMS OF WORK OF THE	Engineer's Certificate
	GRUBBING None 1 - Grading Test 1 - Grading Test 1 - Grading Test	PART L - FLOOD AND RIVER CONTROL AND INCOME. SRUBBING None None 1 - Grading Test One (1) for every 3,000 m³ per source or	PART L - FLOOD AND RIVER CONTROL AND DRAINAGE None



MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
Excavated Materials to be incorporated into the Works	1 - Grading Test 1 - Plasticity Test 1 - Compaction Test 1 - Organic Content 1 - California Bearing Ratio (CBR)	One (1) for every 3,000 m³ per source or fraction thereof			
	1 - Field Density Test (FDT)				
TEM 1702 - STRUCTURE EXC		Che (1) for every 3 000 m3 per source or		Engineerie Cortificate	
Vaste Excavated Materials	1 - Grading Test 1 - Plasticity Test 1 - Organic Content	One (1) for every 3,000 m³ per source or fraction thereof		Engineer's Certificate	



Minimum Testing Requirements

MATERIAL OR PRODUCT	(FDr)	CONTRACTOR'S QU	ALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Excavated Materials to be Incorporated into the Works	1 - Grading Test 1 - Plasticity Test 1 - Compaction Test 1 - Organic Content 1 - California Bearing Ratio (CBR)	One (1) for every 3,000 m³ per source or fraction thereof		OTHER REQUIREMENTS
		For every 1,000 m² of each layer of compacted fill or fraction thereof at least one (1) group of three (3) in-situ density tests. The layers shall be placed not exceeding 200 mm in loose measurement or based on the result of compaction trials.		DPWH QUALITY ASSURANCE
TEM 1703 – DREDGING		LIESTING REQUIREMENTS COVERS		201
Oredged Waste Materials ANOMICS VI	1 - Grading Test 1 - Organic Content	One (1) for every 3,000 m³ per source or fraction thereof	mum Testing Requireme	Engineer's Certificate





Minimum Testing Requirements

MATERIAL OR PRODUCT	Let 1	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
Excavated materials to be incorporated into the works	1 - Grading Test 1 - Plasticity Test 1 - Compaction Test 1 - Organic Content 1 - California Bearing Ratio (CBR)	One (1) for every 3,000 m³ per source or fraction thereof			
1	1 - Field Density Test (FDT)	For every 1,000 m ² of each layer of compacted fill or fraction thereof at least one (1) group of three (3) in-situ density tests. The layers shall be placed not exceeding 200 mm in loose measurement		DOMEST REPRODUCE	
	CHARLING STELLING	1	Properties of the addition of		
ITEM 1704 - EMBANKMENT					
Embankment Materials	 Grading Test Plasticity Test Compaction Test Organic Content California Bearing Ratio (CBR) 	One (1) for every 3,000 m³ per source or fraction thereof	- 199 Style Style Style F	્રનો	



Minimum Testing Requirements

SCHEDULE OF MINIMUM TESTING REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES, VOLUME III, 2019 EDITION (Buildings, Ports and Harbors, Flood Control and Drainage Structures, and Water Supply Systems)

MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED	exceeding 200 mm in loose measurement or based or LEEÓNENCA frompaction trials.	OTHER THAN TEST	OTHER REQUIREMENTS	
MATERIAL OR PRODUCT	1 - Field Density Test (FDT) 1 - Held Density Test LEZI REONINED	For every 1,000 m² of each layer of compacted fill or fraction thereof at least one (1) group of three (3) in-situ density tests. The layers shall be placed not exceeding 200 mm in loose measurement or based on the result of compaction trials.	OTHER THAN TEST	OTHER REQUIREMENTS	
		CONTRACTOR'S QU	ALTIY CONTROL	DPWH QUALITY ASSURANCE	
ITEM 1705 - FILL AND BACKF	ILL				
Fill and Backfill	Grading Test Plasticity Test Compaction Test Organic Content California Bearing Ratio (CBR)	One (1) for every 3,000 m³ per source or fraction thereof	URES, VOLUME III, 2019 EDITI))	



WORKS AND HIGHWAYS

Minimum Testing Requirements





MATERIAL OR PRODUCT		CONTRACTOR'S QUALI	CONTRACTOR'S QUALITY CONTROL	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
	1 - Field Density Test (FDT)	For every 1,000 m² of each layer of compacted fill or fraction thereof at least one (1) group of three (3) in-situ density tests. The layers shall be placed not exceeding 200 mm in loose measurement or based on the result of compaction trials.		
TEM 1706 - OVERHAUL		CONTRACTOR'S OUA.	I Act Count	DOWN ORNING WISHES MOE
Overhaul Material	None	None company of specific state of se	a, unu Weber Supply Cyster	Engineer's Certificate
TEM 1707 - AGGREGATE SUI	BBASE COURSE		and the state of t	
Subbase Course Materials	1 - Grading Test 1 - Plasticity Test	One (1) for every 300 m ³ per source or fraction thereof		





MATERIAL OR PRODUCT TE	1 - Field Density Test (FDT)	Letter Deuzha Lezh (EDL)		DPWH QUALITY ASSURANCE
	I - Compaction Test Lest REGNIRED	One (1) for r ŁŁEÓNENCX per source of fraction thereof	OTHER THAN TEST	OTHER REQUIREMENTS
	1 - Grading Test 1 - Plasticity Test 1 - Abrasion Test 1 - California Bearing Ratio (CBR)	One (1) for every 3,000 m³ per source or fraction thereof		
MATERIAL OR PRODUCT	1 - Compaction Test	One (1) for every 1,500 m ³ per source or fraction thereof	OTHER THAN TEST	OTHER REQUIREMENTS
	1 - Field Density Test (FDT) (Bulldings, Ports and Harb DPWH STANDARD SPECIFIC	density tests for each 1,000 m ² or fraction	tures, and Water Supply System :)	N DPWH QUALITY ASSURANC
EM 1708 – AGGREGATE BAS	SE COURSE 1 - Grading Test	One (1) for every 300 m ³ per source or		
WORKS A	1 - Plasticity Test	fraction thereof	mum Testing Requiremen	





MATERIAL OR PRODUCT	The second of the	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
	1 - Grading Test 1 - Plasticity Test 1 - Abrasion Test 1 - California Bearing Ratio (CBR)	One (1) for every 3,000 m ³ per source or fraction thereof		
	1 - Compaction Test	One (1) for every 1,500 m³ per source or fraction thereof		Differ outside the Early
	1 - Field Density Test (FDT)	For every layer of 200 mm of compacted depth based on the result of laboratory compaction tests on the same materials: At least one (1) group of three (3) in-situ density tests for each 1,000 m ² or fraction thereof.		
TEM 1709 – CRUSHED AGGR ushed Aggregate Base Cours aterials	EGATE BASE COURSE e 1 - Grading Test 1 - Plasticity Test	One (1) for every 300 m ³ per source or		





Minimum Testing Requirements

SCHEDULE OF MINIMUM TESTING REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES, VOLUME III, 2019 EDITION (Buildings, Ports and Harbors, Flood Control and Drainage Structures, and Water Supply Systems)

MATERIAL OR PRODUCT	1 - Quality Test	OF (1) TO GOOD CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED 1 - VPCONTON LOSE 1 - VPCONTON LOSE	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
TTEM 1710 - RIPRAP AND GR	1 - Grading Test 1 - Plasticity Test 1 - Abrasion Test 1 - California Bearing Ratio (CBR) 1 - Fractured Face	One (1) for every 3,000 m ³ per source or fraction thereof		Engineer's Certificate	
MATERIAL OR PRODUCT	1 - Compaction Test	One (1) for every 1,500 m ³ per source or fraction thereof		OTHER REQUIREMENTS	
	SCHEDULE OF MINIMED PHAN STANDARD SPECIFIC (Buildings, Ports and Harb 1 - Lield Deusith Lest (LDL)	For every layer of 200 mm of compacted depth based on the result of laboratory compaction tests on the same materials: At least one (1) group of	TURES, VOLUME III, 2019 EDITI tures, and Water Supply System	E)	



WORKS AND HIGHWAYS

Minimum Testing Requirements





		CONTRACTOR'S QUA	CONTRACTOR'S QUALITY CONTROL	
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1710 – RIPRAP AND GI	ROUTED RIPRAP			
Stones	1 - Specific Gravity1 - Abrasion Test1 - Absorption Test	One (1) for every 3,000 m ³ per source or fraction thereof		Engineer's Certificate
Cement	1 - Quality Test	One (1) for every 2,000 bags per shipment or fraction thereof	Free state of the	
Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		
Water	1 - Quality Test	One (1) per source		
Filter Materials	1 - Quality Test Original Mill Certificate	One (1) per lot for each type		Engineer's Certificate







Minimum Testing Requirements

SCHEDULE OF MINIMUM TESTING REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES, VOLUME III, 2019 EDITION (Buildings, Ports and Harbors, Flood Control and Drainage Structures, and Water Supply Systems)

MATERIAL OR PRODUCT		SHIPMING OF THE CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	1 - Onsili TEST REQUIRED	FREQUENCY Laction thereof	OTHER THAN TEST	OTHER REQUIREMENTS	
DAC Meebholes	1 - Quality Test Original Mill Certificate	One (1) per lot for each type/size used		Engineer's Certificate	
Backfilling Materials WYJERIYF OR BRODUCT	1 - Grading Test 1 - Plasticity Test 1 - Compaction Test 1 - Organic Content 1 - California Bearing Ratio (CBR)	One (1) for every 3,000 m³ per source or fraction thereof	OTHER THAN TEST	DPWH QUALITY ASSURANCE OTHER REQUIREMENTS	
	1 - Field Density Test (FDT) (BENIQUES BOLES SUG HSLPO DEATH SLYMDARD SPECIFICA SCHEDNIE OF MINIMAL	tests. The layers shall be placed not		E)	



DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Minimum Testing Requirements





MATERIAL OR PRODUCT	Home Program of the Augustian	CONTRACTOR'S QUALITY CONTROL DPWH QUALIT		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Item 1711 - STONE MASONR	3.91 (61.5)			
Stones	1 - Specific Gravity 1 - Abrasion Test 1 - Absorption Test	One (1) for every 3,000 m ³ per source or fraction thereof		Engineer's Certificate
Cement	1 - Quality Test	One (1) for every 2,000 bags per shipment or fraction thereof	11, 11 ft - 112	to a refyrent removed a fi
Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof	TT 145 (2 15 15 15 15 15 15	
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	array as on a region of	1.
Water	1 - Quality Test	One (1) per source		
Filter Materials	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	rak yekangilan dibangilahya	Engineer's Certificate





	II - (omparion ted	CONTRACTOR'S QUA	NI ITY CONTROL	DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	One (1) for s ELEGNENCA per source of	OTHER THAN TEST	OTHER REQUIREMENTS
PVC Weepholes	1 - Quality Test Original Mill Certificate	One (1) per lot for each type/size used		Engineer's Certificate
TTEM 1712 - CONCRETE SLOP		FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Cement REIST ON BRODUCT	1 - Quality Test MEGNIMED	One (1) for every 2,000 bags or fraction thereof	ALITY CONTROL	DPWH QUALITY ASSURANCE
Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof	tures, enu mater puppiy bysteni	
riateriais	1 - Quality Test ADMED SECTE SCHEDOLE OF MINIS	One (1) for every 1,500 m ³ per source or		ON
Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	mum Testing Requireme	nts





MATERIAL OR PRODUCT		CONTRACTOR'S QUAL	OR'S QUALITY CONTROL DPWH QUALITY AS	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Water	1 - Quality Test	One (1) per source		
Subbase Course Materials	1 - Grading Test 1 - Plasticity Test	One (1) for every 300 m ³ per source or fraction thereof		odus g
	1 - Abrasion Test 1 - California Bearing Ratio (CBR)	One (1) for every 3,000 m ³ per source or fraction thereof		
	1 - Compaction Test	One (1) for every 1,500 m ³ per source or fraction thereof		1 1,999 Parison
	1 - Field Density Test (FDT)	For every layer of 200 mm of compacted depth based on the result of laboratory compaction tests on the same materials: At least one (1) group of three (3) in-situ density tests for each 1,000 m ² or fraction thereof.		
Chemical Admixture	1 - Quality Test	One (1) per lot	nu i schai Regultens	(C)
Curing Compound	1 - Quality Test	One (1) per lot		





Minimum Testing Requirements

jalo su jalosta		CONTRACTOR'S QU	ALITY CONTROL	DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	LEEÓNENCA One (1) for every 75 m³ or fraction	OTHER THAN TEST	OTHER REQUIREMENTS
Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg per size/source or fraction thereof		
Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	
	1 - Compressive Strength	One (1) - set of three (3) concrete cylinder samples for every 75 m ³ of each		OTHER REQUIREMENTS
	class or fraction thereof placed each day	IALITY CONTROL	DPWH QUALITY ASSURANCE	
PVC Weepholes	1 - Quality Test Original Mill Certificate	One (1) per lot for each type/size	tures, and Water Supply System	Engineer's Certificate
ITEM 1713 - RUBBLE CONCRE	DPWH STANDARD SPECIF	MUM TESTING REQUIREMENTS GOVER ICATIONS FOR PUBLIC WORKS STRUC		
Stones	1 - Specific Gravity 1 - Abrasion Test 1 - Absorption Test	One (1) for every 3,000 m ³ per source or fraction thereof		Engineer's Certificate
Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof	mum Testing Requireme	nts





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	UCT TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	Control of the Contro	
Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m³ per source or fraction thereof		
Water	1 - Quality Test	One (1) per source	CONTRACTOR SPECIAL CONTRACTOR	4
ITEM 1714 - GABIONS A	AND MATTRESSES			
Gabions	1 - Quality Test	One (1) per shipment per lot		Engineer's Certificate
Mattresses	1 - Quality Test	One (1) per shipment per lot	the daring the production	Engineer's Certificate





Minimum Testing Requirements

MATERIAL OR PRODUCT	Low otrom rate bynamic result	CONTRACTOR'S QUA	ALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
RockFill Me	1 - Specific Gravity 1 - Abrasion Test 1 - Absorption Test	One (1) for every 3,000 m ³ per source or fraction thereof		Engineer's Certificate
Filter Materials (Fabric)	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	OTHER THAN TEST	Engineer's Certificate
Erosion Control Mats	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	ALITY CONTROL	Engineer's Certificate DEMH ONVILLA VERNEVUCE
Roving	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	tures, and Water Supply System	Engineer's Certificate
Polyester Net Gabion	SCHEDULE OF MINIM DPWH STANDARD SPECIE		IING TTEMS OF WORK OF THE URES, VOLUME III, 2019 EDITI	DN
1. Net Bag	1 - Quality Test Original Mill Certificate	One (1) per lot for each type/size		Engineer's Certificate
2. Net Yarn ANOKKS N	1 - Quality Test Original Mill Certificate	One (1) per lot for each type/size	mum Testing Requireme	Engineer's Certificate
Rope	1 - Quality Test	One (1) per lot for each type/size		





MATERIAL OR PRODUCT	egra, en ege p	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1716 - PILING				
Timber Piles	1 - Quality Test	One (1) per shipment for each size		
Concrete Piles (Bridges)		One (1) per size of pile and for each abutment and every other pier (for multispan bridges)		
	1	At least 50% of the total number of Piles at each abutment and pier		The second of th
	그 그 아이들이 아무지 않는데 아이들이 가장 가장 하는데 아이들이 아무지 않는데 그를 모르는데 그를 모르는데 그를 모르는데 그렇게 되었다.	At least one (1) at each abutment and pier		45
Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	
	1 - Compressive Strength	One (1) - set of three (3) concrete cylinder samples from each 75 m ³ of each class or fraction thereof placed each day		
1. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof		







Minimum Testing Requirements

MATERIAL OR PRODUCT	D. Challeden	CONTRACTOR'S QUALITY C		DPWH QUALITY ASSURANCE
	TEST REQUIRED	One (1) be FREQUENCY to the Index and	Mague OTHER THAN TEST	OTHER REQUIREMENTS
2. Fine Aggregate	1 - Grading Test	One (1) for every 75 m³ or fraction thereof	Melding Report	
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	OTHER THAN TEST Welding Report	OTHER REQUIREMENTS
3. Coarse Aggregate	1 - Grading Test	One(1) for every 75 m ³ or fraction thereof		DPV/H QUALITY ASSURANCE
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	tures, and Water Supply System	3
4. Water	1 - Quality Test	One (1) per source	TURES, VOLUME III, 2019 EDITI	N
5. Chemical Admixture	1 - Quality Test	One (1) per lot		
6. Special Curing Agent	1 - Quality Test	One (1) per lot		
7. Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg per size/source or fraction thereof	mum Testing Requireme	nts





		CONTRACTOR'S QUALITY CONTROL DPWH QUALITY A		
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Steel Pipes Piles/Steel Pipe Sheet Piles	1 - Quality Test	One (1) per lot for each pile type/size used	Welding Report	
Steel H-Piles	1 - Quality Test	One (1) per lot per shipment for each size	Welding Report	
Steel Sheet Piles	1 - Quality Test	One (1) per lot for each pile type/size used	Welding Report	
Polyvinyl Chloride (PVC) Sheet Piles	1 - Quality Test Original Mill Certificate	One (1) per lot for each pile type/size of		Engineer's Certificate
Steel Pile Shoes	1 - Quality Test	One (1) per lot for each size	Welding Report	
Paint 20-L Cans	1 - Quality Test	One (1) for every 100 cans or fraction thereof	90	
4-L Cans	1 - Quality Test	One (1) for every 100 cans or fraction thereof		
Cement Mortar	1 - Compressive Strength Test	One (1) set per pouring day		





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
1. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof		
2. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof	Concrete Monitoring Record	0.0000000000000000000000000000000000000
MATERIAL OR PRODUCT	1 - Quality Test REOMISED	One (1) for every 1,500 m ³ per source or fraction thereof	JALITY CONTROL	DPWH QUALITY ASSURANCE
3. Water	1 - Quality Test	One (1) per source		
lurry	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	Fringe and Mateur Crimelia Cuctom	Engineer's Certificate
TEM 1717 - SHEET PILES	SCHEDULE OF MINIE	HIM TESTING REQUIREMENTS COVER	MING TIEMS OF WORK OF THE	
. Timber Sheet Pile	1 - Quality Test	One (1) per shipment for each type/size		Engineer's Certificate
. Concrete Sheet Pile	1 - Compressive Strength Test		Inspection Report of casting if precast concrete manufactured in supplier	nts





MATERIAL OR PRODUCT		CONTRACTOR'S QU	JALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	
	1 - Compressive Strength Test	One (1) - set of three (3) concrete cylinder samples for every 75 m ³ of each class or fraction thereof placed each day		
a. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof		7/11 din 2 % 2000.
b. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof	more and agreed troops are start	
,	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		ΥI
c. Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	una gerrer gedand we	能





MATERIAL OR PRODUCT	1 - CoditacciA6	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	ONG (1) DEL OFREQUENCY	Courter OTHER THAN TEST	OTHER REQUIREMENTS
d. Water	1 - Quality Test	One (1) per source to the design of the contract of the contra		
e. Chemical Admixture	1 - Quality Test	Oue (1) bel lot 1 consisting of three (3)		
g. Curing Compound	1 - Quality Test	One (1) per lot	OTHER THAN TEST	OTHER REQUIREMENTS
h. Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg per size/source or fraction thereof	IALITY CONTROL	DPWH QUALITY ASSURANCE
. Steel Sheet Pile	1 - Gnalith Lest	One (1) per lot of each pile type of material used		()
 Polyvinyl Chloride (PVC) Sheet Pile 	1 - Quality Test Original Mill Certificate	One (1) per shipment for each pile type of material used	the second secon	Engineer's Certificate
ITEM 1718 - PIPE CULVERTS A	ND STORM DRAINS			
	1 - Quality Test	One (1) for every 100 pcs.	Inspection Report of Casting	Inspection Report for each size of not more than 25 pipes cast in the field





		CONTRACTOR'S QUALITY CONTROL DPWH QUAL		DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
		Alternative Requirements: One (1) - set consisting of three (3) concrete cylinder samples for not more than 25 pipes cast in the field		
1. Concrete (Pipe/Lined Canal)	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	QUEEN STANDARD TO
	1 - Compressive Strength	One (1) - set of three (3) concrete cylinder samples for every 75 m ³ of each class or fraction thereof placed each day		DBRITO, W.Y.A. W. YRIVACE
a. Cement	1 - Quality Test	One (1) for every 2,000 bags per shipment or fraction thereof	TREE A TRUTTE IN TOACTOUTS	W
b. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	in	\$E







MATERIAL OR PRODUCT	E. Quality Test	CONTRACTOR'S QU	JALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
c. Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof		
C.AV PIDCS	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		Engineer's Combicate
d. Water OR PRODUCT	1 - Quality Test SEONISED	One (1) per source	OTHER HARTEST	OTHER REQUIREMENTS
e. Reinfocing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof	IN ITY CONTROL	DPWH OUALITY ASSURANCE
f. Mortar for Joint	1 - Compressive Strength Test	One (1) set per pouring day	a second of the	:)
Steel Pipes	1 - Quality Test	One (1) per lot of each size	Welding Report	334
Aluminum Pipe	1 - Quality Test Original Mill Certificate	One (1) per lot of each type		Engineer's Certificate
Plastic Pipes DEBAKET	1 - Quality Test Original Mill Certificate	One (1) per lot for each type/size used	mum Testing Requireme	Engineer's Certificate





MATERIAL OR PRODUCT	CONTRACTOR'S QUALITY CONTROL			DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Clay Pipes	1 - Quality Test Original Mill Certificate	One (1) - pipe for every 200 pieces each size, with a minimum of 2 specimens for test		Engineer's Certificate
Fiber Pipe	1 - Quality Test Original Mill Certificate	One (1) per shipment for each size		Engineer's Certificate
Forms and Falseworks 1. Timber	1 - Quality Test	One (1) per lot for each type of material used		
2. Preservatives	1 - Quality Test Original Mill Certificate	One (1) per lot for each type		Engineer's Certificate
3. Metal	1 - Quality Test	One (1) per lot for each type/size used	Welding Report	
4. Plastic	1 - Quality Test	One (1) per lot for each type/size used		





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED (Add an Will Countries (Add an Will Countries (Add an Will Countries)	FREQUENCY Out (1) belief of each (Abeliese	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1719 - UNDERDRAINS AN	ND FLAP GATES			
Underdrain 1. Zinc Coated (Galvanized) Corrugated Iron or Steel Culverts and Underdrains		One (1) per lot for each type/size	OTHER THAN TEST	Engineer's Certificate
Extra Strength and Standard Strength Clay Pipe and Perforated Clay Pipe		One (1) per lot for each type/size	IALITY CONTROL	Engineer's Certificate
3. Perforated Concrete Pipe	1 - Quality Test bours and Hall	One (1) per lot for each type/size	tures, and Water Supply System	Engineer's Certificate
4. Porous Concrete Pipe	1 - Quality Test	One (1) per lot for each type/size	JING TEMS OF WORK OF THE	Engineer's Certificate
5. Bituminized-fiber non-pressure sewer drain and underdrainage pipe systems	1 - Quality Test Original Mill Certificate	One (1) per lot for each type/size		Engineer's Certificate
	1 - Quality Test Original Mill Certificate	One (1) per lot for each type/size	mum Testing Requireme	Engineer's Certificate





MATERIAL OR PRODUCT		CONTRACTOR'S QUA	ALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
7. Poly (Vinyl Chloride) (PVC) Profile Wall Drain Pipe and Fittings		One (1) per lot for each type/size		Engineer's Certificate
8. Polypropylene Pipe	1 - Quality Test Original Mill Certificate	One (1) per lot for each type/size		Engineer's Certificate
9. Asbestos-Cement Perforated Underdrain Pipe	1 - Quality Test Original Mill Certificate	One (1) per lot for each type/size	1 12 1	Engineer's Certificate
Filter Fabric Material	1 - Quality Test Original Mill Certificate	One (1) for each lot and type	and the second second	Engineer's Certificate
Blind Drain/ Granular Backfill Filter Material for Underdrains (Fine Aggregates)	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
(Time riggregates)	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		
Fiber Reinforced Plastic Mortar Pipe (FRPM)	1 - Quality Test Original Mill Certificate	One (1) per lot for each size		Engineer's Certificate





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	PREQUENCY FREQUENCY OUG (1) LOL GAGIA 1'200 III. DGC SGALCE OF	OTHER THAN TEST	OTHER REQUIREMENTS
Flap Gate	1- Hydrostatic Test	One (1) for every size for each station		
1. Fiber Reinforced Plastic (FRP)	1 - Quality Test Original Mill Certificate	One (1) per lot for each size		Engineer's Certificate
2. Aluminum Flap Gate	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	OTHER THAN TEST	Engineer's Certificate
	1 - Compressive Strength Test	One (1) - set of three (3) concrete cylinder samples from each 75 m ³ of each		1 3
ITEM 1720 - MANHOLES, INLE Concrete	1 - Compressive Strength Test			1 3
	SCHEDULE OF MINIMUN	class or fraction thereof placed each day	NING ITEMS OF WORK OF THE	
Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof		
Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof	mum Testing Requireme	nts





MATERIAL OR PRODUCT		CONTRACTOR'S QUAL	DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ୁ ଅଟନ ଓ ଜନ	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		
Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	= 501 (190)	TOUR ARE ARE ARE TO SEE TO
Water	1 - Quality Test	One (1) per source	CONTROL OF THE CONTRO	AND SOCIETY SAME TO SEE A ST
Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof		κ.
Joint Mortar	1 - Compressive Strength Test	One (1) set per pouring day		
Concrete Hollow Blocks and Louvers	1 - Quality Test	One (1) for every 10,000 units or fraction thereof	taa ogereelijaareks toolikuja saa Ska	to e





Minimum Testing Requirements

MATERIAL OR PRODUCT	Mone	CONTRACTOR'S OUR	CONTRACTOR'S QUALITY CONTROL	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
8 - Service Start	T - Quality Test Original Nin Certificate T - Qualify Test	Two (2) per lot of more than 10,000 and less than 100,000 For lots of more than 100,000 units - One (1) per 50,000 units		Engineer's Certificate
Autoclaved Aerated Concrete (AAC	1- Quality Test	For lots of more than 100,000units - One (1) per 50,000 units	OTHER THAN TEST	OTHER REQUIREMENTS
		One (1) for every 5,000 units or fraction thereof	ALITY CONTROL	DPWH QUALITY ASSURANCE
Frames, Gratings, Covers, Ladder 1. Gray Iron Casting	1 - Quality Test Original Mill Certificate	One (1) per lot for each type/size	VING ITEMS OF WORK OF THE TURES, VOLUME III, 2019 EDITI tures, and Water Supply System	Engineer's Certificate
2. Mild to Medium - Strength Carbon Steel Cast	1 - Quality Test Original Mill Certificate	One (1) per lot for each type/size		Engineer's Certificate
3. Structural Steel (Carbon Structural Steel)	1 - Quality Test Original Mill Certificate	One (1) per lot for each type/size	mum Testing Requireme	Engineer's Certificate





MATERIAL OR PRODUCT		CONTRACTOR'S QUALI	TTY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
4. Galvanizing	1 - Quality Test Original Mill Certificate	One (1) per lot for each type/size		Engineer's Certificate
5. Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof		
ITEM 1721 - CLEANING AND Existing Drainage Structures	None None	None None		Engineer's Certificate
Item 1722 – FENCE AND RAI	LINGS		ulonga – grotingas. Er to kanto Lingand	1.84 1.70g
Fence (CHB/Precast)/ Plantbox (Precast) 1. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof		
2. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		



Minimum Testing Requirements

SCHEDULE OF MINIMUM TESTING REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES, VOLUME III, 2019 EDITION (Buildings, Ports and Harbors, Flood Control and Drainage Structures, and Water Supply Systems)

MATERIAL OR PRODUCT	F. Chalde First	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED	COLUMN TREQUENCY OF THE COLUMN TREATMENT OF THE COLUMN	OTHER THAN TEST	OTHER REQUIREMENTS	
Supremental suprem	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof			
3. Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof	STUEN THAT ISS	DITIES ACQUINEMENTS	
WATERIAL OR PRODUCT	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		DPWH QUALITY ASSURANCE	
4. Water	1 - Quality Test	One (1) per source			
5. Reinforcing Steel	1 - Quality Test		TURES, VOLUME III, 2019 EDITI Tures, and Water Supply System	S)	
6. Mortar for Joint	1 - Compressive Strength Test		NING TIEMS OF WORK OF THE		



WORKS AND HIGHWAYS

Minimum Testing Requirements



MATERIAL OR PRODUCT		CONTRACTOR'S QU	UALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
7. Concrete Hollow Blocks and Louvers	1 - Quality Test	One (1) for every 10,000 units or fraction thereof		
The second of th		Two (2) per lot of more than 10,000 and less than 100,000 For lots of more than 100,000 units - One (1) per 50,000 units		
8. Autoclaved Aerated Concrete (AAC Blocks)	1- Quality Test	One (1) for every 5,000 units or fraction thereof		
Fence (Welded Wire)	1 - Ouality Test	One (1) per lot for each size	ran sugger seki jesses e	
Railings 1. Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	
	1 - Compressive Strength Test	One (1) - set of three (3) concrete cylinder samples for every 75 m³ of each class or fraction thereof placed each day		4 0 00 AA
a. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof		



Minimum Testing Requirements

MATERIAL OR PRODUCT	Prodity Pro	CONTRACTOR'S QU	ALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
b. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof	Welding Report	
Materials	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	WITHER TOAR 1251	Chymear's Certificate
c. Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		DPWH QUALITY ASSURANCE
ridendio	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		
d. Water	1 - Quality Test	One (1) per cource	TURES, VOLUME III, 2019 EDITI	DM
e. Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof	MING TIEMS OF WORK OF THE	
2. Forms and Falseworks				
a. Timber	1 - QualityTest	One (1) per lot for each type	mum Testing Requireme	nts





MATERIAL OR PRODUCT		CONTRACTOR'S	QUALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
b. Preservatives	1 - Quality Test Original Mill Certificate	One (1) per lot for each type		Engineer's Certificate
c. Metal	1 - Quality Test Original Mill Certificate	One (1) per lot for each type/size	Welding Report	
d. Plastic	1 - Quality Test	One (1) per lot for each type/size		
3. Lumber	1 - Quality Test	One (1) per lot		Engineer's Certificate
4. Plywood	1 - Quality Test	One (1) per lot per thickness		Engineer's Certificate
5. Hardware a. Rough Hardware (Nails,Screws, Bolts, Fasteners)	None	None		Engineer's Certificate







MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED	Out (1) the FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
b. Finishing Hardware (Door Locksets, Latches, Door Closers, Knobs, Handles,	None	One (1) for every 1,500 mr per seurce of frequent merent		Engineer's Certificate	
Hinges, Door Pull, Hook, Bumper and Silencer	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
6. Masonry		CONTRACTOR'S Q IA	ALITY CONTROL	DPWH QUALITY ASSURANCE	
a. Cement	1 - Quality Test (Buildings, Ports and Harbo	One (1) for every 2,000 bags or fraction thereof		e)	
b. Fine Aggregate Materials	1 - Grading Test Wiso 25ECIEIC			DIA	
1.1.0	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof			
c. Coarse	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof	num Testing Requireme	nts	





	N 5444 X 64	CONTRACTOR'S QUA	CONTRACTOR'S QUALITY CONTROL		
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
north and the second	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof			
d. Water	1 - Quality Test	One (1) per source		AT THE STATE OF TH	
e. Mortar for Joint	1 - Compressive Strength Test	One (1) set per pouring day	31 - 12 - L ₂ , o	i ser esta e	
		*** ** *** *** ***	11 × 400		
f. Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof			
g. Concrete Hollow Blocks and Louvers	1 - Quality Test	One (1) for every 10,000 units or fraction thereof Two (2) per lot of more than 10,000 and less than 100,000 For lots of more than 100,000 units - One (1) per 50,000 units			
h. Autoclaved Aerated Concrete (AAC) blocks	1 - Quality Test	One (1) for every 5,000 units or fraction thereof			





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	OUS (1) DEC OF FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
7. Stone	1 - Specific Gravity 1 - Abrasion Test 1 - Absorption Test	One (1) for every 3,000 m ³ per source or fraction thereof		Engineer's Certificate
8. Metal	1 - Quality Test	One (1) per lot for each type/size	Welding Report	OTHER REQUIREMENTS
MATERIAL OR PRODUCT	TEST REQUIRED			Engineer's Certificate
9. Stainless Steel (Non-Ferrous Metal)	1 - Quality Test	One (1) per lot per shipment for each size	IALITY CONTROL	DPWH QUALITY ASSURANCE
10. Glass and Glazing	(Buildings, Ports and Harbon Noue	s, Flood Control and Drainage Stru- Noue	tures, and Water Supply System	Engineer's Certificate
11. Aluminum	1 - Quality Test Original Mill Certificate LIMINAL OFFICE	One (1) sample from each end of each parent coil, or parent plate, but no more than one sample per 1000 kg of sheet or 2000 kg of plate, or part thereof, in a lot		Engineer's Certificate
12. Paint 20-L Cans	1 - Quality Test	One (1) for every 100 cans or fraction thereof	mum Testing Requireme	nts





MATERIAL OR PRODUCT	v 1-, '	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
4-L Cans	1 - Quality Test	One (1) for every 100 cans or fraction thereof			
13. Varnishes	1 - Quality Test Original Mill Certificate	One (1) per lot		Engineer's Certificate	
14. Shellac	1 - Quality Test Original Mill Certificate	One (1) per lot		Engineer's Certificate	
15. Lacquer	1 - Quality Test Original Mill Certificate	One (1) per lot		Engineer's Certificate	
16. Tinting Colors	1 - Color Test Original Mill Certificate	One (1) per lot		Engineer's Certificate	
TEM 1724 - Main Pumping S	tation				
Submersible Axial and Mixed Flor Pump	v 1 - Pump Performance Test	One (1) for every size for each station	The second section	Engineer's Certificate	







MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY OTHER THAN TEST	OTHER REQUIREMENTS
/ertical Axial Flow Pump	1 - Pump Performance Test	One (1) for every size for each station	Engineer's Certificate
Horizontal Axial Flow Pump	1 - Pump Performance Test	One (1) for every size for each station	Engineer's Certificate
Suction Column Pipe set with Flanges and Bolts & Nuts	None TEST REQUIRED	None EBEGIEWEA CINEB IHWW IFZI	Engineer's Certificate
Discharge Column Pipe Set with Flanges and Bolts & Nuts	None	None None	Engineer's Certificate
Flap Valve	1 - Hydrostatic Test	One (1) for every size for each station	
Butterfly Valve	1 - Hydrostatic Test	One (1) for every size for each station	Engineer's Certificate
Water Level Indicator	None	None	Engineer's Certificate
Bulk Fuel Storage Tank	None None	None	Engineer's Certificate
Fuel Day Tank	None	None None	Engineer's Certificate





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Fuel Transfer Pump	1 - Pump Performance Test	One (1) for every size for each station		Engineer's Certificate
Overhead Water Tank with Pump	1 - Pump Performance Test	One (1) for every size for each station		Engineer's Certificate
Water Supply Centrifugal Pump	1 - Pump Performance Test	One (1) for every size for each station	3 × 1 · 4 · 245 · 1855	Engineer's Certificate
Portable Submersible Pump	1 - Pump Performance Test	One (1) for every size for each station		Engineer's Certificate
Rectangular Flap Gate	1 - Hydrostatic Test	One (1) for every size for each station		Engineer's Certificate
Pump House	None	None		Engineer's Certificate
Pump House and Accessories				
Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	î î e





Minimum Testing Requirements

MATERIAL OR PRODUCT	1	CONTRACTOR'S QU	ALITY CONTROL	OTHER REQUIREMENTS
	TEST REQUIRED	One (1) per let	OTHER THAN TEST	
5 Partenung Steel	1 - Compressive Strength Test	One (1) - set of three (3) concrete cylinder samples for every 75 m ³ of each class or fraction thereof placed each day		
1. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof	OTHER THAN TEST	OTHER REQUIREMENTS
Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof	IVILLA CONTROI	DBWH QUALITY ASSURANCE
ागवाचा वाड	1 - Quality Lest Ports and Harbo	One (1) for every 1,500 m ³ per source or fraction thereof		NO DM
3. Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof	HING ITEMS OF MORK OF THE	
	1 - Quality Test D HIGHMYAZ	One (1) for every 1,500 m ³ per source or fraction thereof	mum Testing Requireme	nts
4. Water	1 - Quality Test	One (1) per source		





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
5. Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof			
6. Chemical Admixture	1 - Quality Test	One (1) per lot			
Curing Compound	1 - Quality Test	One (1) per lot			
Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg per size/source or fraction thereof		LEINTEN, ALM DE F	
Mortar for Joint	1 - Compressive Strength Test	One (1) set per pouring day			
Concrete Hollow Blocks and Louvers	1 - Quality Test	One (1) for every 10,000 units or fraction thereof Two (2) per lot of more than 10,000 and less than 100,000 For lots of more than 100,000 units - One (1) per 50,000 units			





Minimum Testing Requirements

MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
	TEST REQUIRED	LEEÓNENCA Ome (1) for every size for each station	OTHER THAN TEST	OTHER REQUIREMENTS	
Autoclaved Aerated Concrete (AAC) blocks	1 - Quality Test	One (1) for every 5,000 units or fraction thereof		Engineer's Certificate	
Prepainted Roofing Sheets	1 - Total Thickness	One (1) per lot		Engineer's Certificate	
Hardware/Fasteners	Noue TEST REQUIRED	None	OTHER THAN TEST	Engineer's Certificate	
ITEM 1725 - INTERMEDIATE		CONTRACTOR'S QUAL		DPWH QUALETY ASSURANCE	
Submersible Axial and Mixed Flow Pump	1 - Pump Performance Test	ICA ITONS FOR PUBLIC WORKS STRUCTUR			
Submersible Vertical Axial Flor Pump		One (1) for every size for each station		Engineer's Certificate	
Suction Column Pipe set wit Flanges and Bolts & Nuts		None	um Testing Requireme	Engineer's Certificate	





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL DPWH QU		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Discharge Column Pipe Set with Flanges and Bolts & Nuts	None	None		Engineer's Certificate
Flap Valve	1 - Hydrostatic Test	One (1) for every size for each station		Engineer's Certificate
Butterfly Valve	1 - Hydrostatic Test	One (1) for every size for each station		Engineer's Certificate
Water Level Indicator	1 - Hydrostatic Test	One (1) for every size for each station		Engineer's Certificate
Fuel Transfer Pump	1 - Pump Performance Test	One (1) for every size for each station		Engineer's Certificate
Bulk Fuel Storage Tank	None	None		Engineer's Certificate
Fuel Day Tank	None	None		Engineer's Certificate
Vertical Axial Flow Pump	1 - Pump Performance Test	One (1) for every size for each station		Engineer's Certificate
				<u> </u>







MATERIAL OR PRODUCT	hope	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1726 – ELECTROMECHAN	ICAL EQUIPMENT AND FACILITIES	FOR PUMPING STATIONS		
Motor Control Center (for main pumps and facilities)	None	None		Engineer's Certificate
Generating Set	1 - Exhaust Emission Test 1 - Load Bank Test (Running No-Load and Running Full Load)	One (1) for every size for each station	ALITY CONTROL OTHER THAN TEST	Engineer's Certificate DEWN OUALTY ASSURANCE
Local Control Panel Center (for Auxiliary Equipment)	(Buildings, Ports and Harbor Noue	None	tures, and Water Supply Syste	Engineer's Certificate
ITEM 1727 – AUXILIARY AND F		TESTING REQUIREMENTS GOVER TIONS FOR PUBLIC WORKS STRUC		
Hoist Crane	1 - Load Test	One (1) for every size for each station		Engineer's Certificate
Overhead Crane MOSKE VI	1 - Load Test	One (1) for every size for each station	иши техоид медацен	Engineer's Certificate
Gantry Crane	1 - Load Test	One (1) for every size for each station		Engineer's Certificate





MATERIAL OR PROPERT		CONTRACTOR'S QU	CONTRACTOR'S QUALITY CONTROL		
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
Automatic trash rake complete with accessories ready for service, Primary		None		Engineer's Certificate	
Trash screen rake complete with accessories ready for service, Secondary	I	None		Engineer's Certificate	
Hydraulic gate complete with accessories ready for service	None	None		Engineer's Certificate	
Horizontal conveyor complete with accessories ready for service	None	None		Engineer's Certificate	
Inclined conveyor and hopper complete with accessories ready for service		None		Engineer's Certificate	
Trash Hopper	None	None		Engineer's Certificate	





Minimum Testing Requirements

MATERIAL OR PRODUCT	1 - Quality Test	ODE (1) DE SANDA CONTRACTOR'S QU	UALITY CONTROL	OTHER REQUIREMENTS
	TEST REQUIRED	Traction thereof LEGALENCA One (1) per source	OTHER THAN TEST	
ITEM 1728 - CONCRETE BLOCK	SLOPE PROTECTION	One (1) for every 1 500 m² per source o		
Cast-in-Place Concrete Blocks/	1 - Grading Test	One (1) for every 75 m3 or fraction		
Precast Concrete Blocks Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	
	1 - Compressive Strength Test	One (1) - set of three (3) concrete cylinder samples for every 75 m ³ of each class or fraction thereof placed each day		
1. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof	TURES, VOLUME III, 2019 EDITI))
2. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof	1	
	1 - Quality Test	One (1) for every 1,500 m ³ per source of fraction thereof	mum Testing Requireme	nts





MATERIAL OR PRODUCT		CONTRACTOR'S QUALI	TY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		arestro romando
4. Water	1 - Quality Test	One (1) per source	Bulg land	
5. Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof		
6. Chemical Admixture	1 - Quality Test	One (1) per lot	Programme Section 1	
Curing Compound	1 - Quality Test	One (1) per lot		3/
Bed Course (Subbase Course Materials)	1 - Grading Test 1 - Plasticity Test	One (1) for every 300 m ³ per source or fraction thereof		







MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	MOURE TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Agricofrateral	1 - Grading Test 1 - Plasticity Test 1 - Abrasion Test 1 - California Bearing Ratio (CBR)	One (1) for every 3,000 m³ per source or fraction thereof		Engineer's Certificato
	1 - Compaction Test	One (1) for every 1,500 m ³ per source or fraction thereof	STHER THAN TEST	DPWH QUALITY ASSURANCES OTHER REQUIREMENTS
	1 - Field Density Test (FDT) (Buildings Ports and Harbo DPWH STANDARD SPECIFICA SCHEDULE OF MINIMUL	three (3) in-situ density tests for each	tures, and Water Supply System) Эи
oint Filler/Sealant 1. Hot-Poured Elastic Type	1 - Quality Test	One (1) per lot for each type		
2. Cold-Applied Type	1 - Quality Test	One (1) per lot for each type	mum Testing Requireme	nts





MATERIAL OR PRODUCT		CONTRACTOR'S QU	JALITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Backer Material	1 - Quality Test Original Mill Certificate	One (1) per lot for each type		Engineer's Certificate
ITEM 1729 - SEWERAGE TREAT	MENT PLANT (STP)			
Combined Pre-Treatment Unit with degreasing and grit removal process		None		Engineer's Certificate
Manual Bar Fine Screen	None	None		Engineer's Certificate
Influent Non-contact Doppler Flowmeter	None	None		Engineer's Certificate
Equalization Submersible Non-Clog Channel Type Transfer Pump with Cutter		None		Engineer's Certificate
Equalization Wide Band Coarse Bubble Diffusers	None	None	te fact of the Street start fact	Engineer's Certificate







		CONTRACTOR'S QU	JALITY CONTROL	DPWH QUALITY ASSURANCE
MATERIAL OR PRODUCT	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
SBR Air Motorized Valve	None	None		Engineer's Certificate
SBR Turbo Air Blower	None	None		Engineer's Certificate
SBR Waste Sludge Non-Clog Submersible Pump	1 - Pump Performance Test	One (1) for every size for each station	COHEN WANTEST	Engineer's Certificate
SBR Fine Bubble Diffusers	None Waldedalked	None		Engineer's Certificate
Floating Decanter with Motorized Valve	None	None downstrations of	WHILE CONTROL	Engineer's Certificate
Decanter Motorized Valve	Noue Sundings, Ports and Har	hor a Flood Control and Drainage Stru	rough suc atoms proble passent	Engineer's Certificate
Decanter Air Solenoid Valve	None WH STANDARD SPECTS		TURES, VOLUME 111, 2019 EQITI	Engineer's Certificate
Dissolve Oxygen (DO) Meter	None	None	ATMO TIEMS OF WORK OF THE	Engineer's Certificate
Jltraviolet (UV) Sterilizer	None	None		Engineer's Certificate
Effluent Electro Magnetic	None IGHWAYS	None	mum Testing Requireme	Engineer's Certificate





MATERIAL OR PRODUCT		CONTRACTOR'S QU	ALITY CONTROL DPWH QUALITY ASSUR		
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
Aerobic Sludge Digester (ASD) Wide Band Coarse Bubble Diffusers	PRODUCTION OF THE PRODUCTION O	None		Engineer's Certificate	
ASD Non-Clog Submersible Transfer Pump/Screw Press Feed Pump	1 - Pump Performance Test	One (1) for every size for each station		Engineer's Certificate	
ASD Air Blower	None	None		Engineer's Certificate	
Sludge Reaction Loop	None	None		Engineer's Certificate	
Volute Dewatering Press	None	None		Engineer's Certificate	
Polymer Dosing Pump	1 - Pump Performance Test	One (1) for every size for each station	VV y	Engineer's Certificate	
Polymer Stock Solution Tank	None	None		Engineer's Certificate	
Polymer Stock Solution Tank Air Mixing	None	None	The angle of the same of the s	Engineer's Certificate	





Minimum Testing Requirements

SCHEDULE OF MINIMUM TESTING REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES, VOLUME III, 2019 EDITION (Buildings, Ports and Harbors, Flood Control and Drainage Structures, and Water Supply Systems)

One (1) for every 75 m³ or fraction

MATERIAL OR PRODUCT	Le Securé uses	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
ITEM 1730 - FLOOD BARRIER	SYSTEM COSCORO 20 SUBLIC LISTS	One (1) - set of three (3) condi- extrader samples for every 75 m² of e	ete achi	
Demountable Flood Barrier	None Mus 1621	None (T. Disc priess	Concrete Monitoring Record	Engineer's Certificate
Sliding Flood Barrier	None	None	OTHER THAN TEST	Engineer's Certificate
Glass-Paneled Flood Barrier	None AERI BEOFISED	None		Engineer's Certificate
Sealings and Gaskets	1- Ouality Test Original Mill Certificate	One (1) per lot for each type	O WILLY CONTROL	Engineer's Certificate
Coatings 1. Powder Coating	1 - Quality Test Original Mill Certificate	long (1) por lot for each type		1
2. Zinc Coating (Galvanizing)	1 - Quality Test Original Mill Certificate	One (1) per lot for each type	manunu resting kedunam	Engineer's Certificate





MATERIAL OR PRODUCT	/	CONTRACTOR'S QU	DPWH QUALITY ASSURANCE	
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Concrete	1 - Slump Test	One (1) per truck	Concrete Monitoring Record	
	1 - Compressive Strength Test	One (1) - set of three (3) concrete cylinder samples for every 75 m ³ of each class or fraction thereof placed each day		
1. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof		Michael Chapter and Market
2. Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof		4
3. Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m³ or fraction thereof		
	1 - Quality Test	One (1) for every 1,500 m ³ per source or fraction thereof	The second second	(c)





Minimum Testing Requirements

MATERIAL OR PRODUCT	1 - Undity Test	CONTRACTOR'S QUAI	LITY CONTROL	DPWH QUALITY ASSURANCE
	TEST REQUIRED	Oue (1) Is FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
4. Water COMCRESS AOT	1 - Quality Test	One (1) per source		
Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof		Engineer's Certificate
ITEM 1731 - PUMP-GATE FAC	ILITIES IEZL BEÖNIKED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Submersible Pump	1 - Pump Performance Test	One (1) for every size for each station	LITY CONTROL	Engineer's Certificate
Gate Leaf	None	None		Engineer's Certificate
Guide Frames	None Museum a Burte Sug Haus	None ad Control and Drainage Struct	ires, and Water Supply Systen	Engineer's Certificate
Gate Seals	1- Quality Test Original Mill Certificate	One (1) per lot for each type	NG ITEMS OF WORK OF THE PRES, WOLLING HIS 2019 FOFT	Engineer's Certificate
Flap Valve	1 - Hvdrostatic Test	One (1) for every size for each station		Engineer's Certificate
Rack Bar	None	None		Engineer's Certificate
Spindle or Screw Hoist	None Language	None	uum Testing Requirem	Engineer's Certificate
Staff Gauge	None	None		Engineer's Certificate





MATERIAL OR PRODUCT		CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE
	TEST REQUIRED	FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS
Mainternance Hooks	None	None		Engineer's Certificate
TEM 1732 - CONCRETE VOLU	ITE PUMP			
Pump Pull Out Unit	1 - Pump Performance Test	One (1) for every size for each station		Engineer's Certificate
Formworks 1. Timber	1 - Quality Test	One (1) per lot for each type		
2. Preservatives	None	None		Engineer's Certificate
3. Metal	1 - Quality Test	One (1) per lot for each type/size	Welding Report	Y 1.7
4. Plastic	1 - Quality Test	One (1) per lot for each type/size	1 2 2 11	





Minimum Testing Requirements

SCHEDULE OF MINIMUM TESTING REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES, VOLUME III, 2019 EDITION (Buildings, Ports and Harbors, Flood Control and Drainage Structures, and Water Supply Systems)

	- dread room	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
MATERIAL OR PRODUCT	TEST REQUIRED	Moue FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
Concrete geogloscold greet	1 - Slump Test	One (1) per truck thou thereof	Concrete Monitoring Record		
	1 - Compressive Strength Test	One (1) - set of three (3) concrete cylinder samples for every 75 m ³ of each class or fraction thereof placed each day			
1. Cement	1 - Quality Test	One (1) for every 2,000 bags or fraction thereof	DALITY CONTROL	DPWH QUALITY ASSURANCE	
Fine Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof	ctures, and Water Supply System)	
Pidentis	1 - Quality Test OF WIMIWIN	One (1) for every 1,500 m ³ per source of fraction thereof			
3. Coarse Aggregate Materials	1 - Grading Test	One (1) for every 75 m ³ or fraction thereof			
DEPARTM	1 - Quality Test	One (1) for every 1,500 m ³ per source of fraction thereof	mum Testing Requireme	nts	





Minimum Testing Requirements

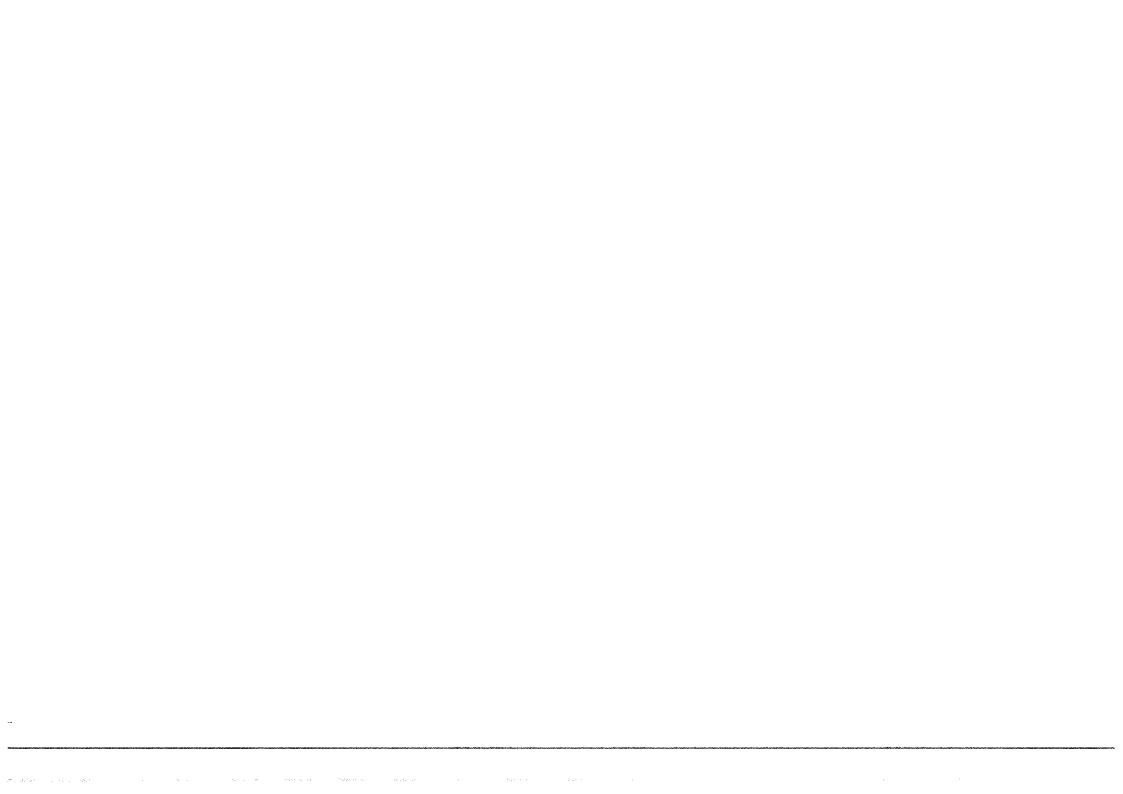
SCHEDULE OF MINIMUM TESTING REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES, VOLUME III, 2019 EDITION (Buildings, Ports and Harbors, Flood Control and Drainage Structures, and Water Supply Systems)

MATERIAL OR PRODUCT	TEST REQUIRED	CONTRACTOR'S QUALITY CONTROL		DPWH QUALITY ASSURANCE	
		FREQUENCY	OTHER THAN TEST	OTHER REQUIREMENTS	
4. Water	1 - Quality Test	One (1) per source			
Reinforcing Steel	1 - Quality Test	One (1) for every 10,000 kg for each size/source or fraction thereof	No. of the control of		
Maintenance Manhole	None	None		Engineer's Certificate	
Bolts, Nuts, and Washers	1 - Quality Test	One (1) per lot per shipment for each size		Engineer's Certificate	



QUALITY TESTS ON CONTRUCTION MATERIALS

ANNEX A





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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD
SOIL AND SOIL AGGREGATES		Specific Gravity	
	B.18, 802, 803, 805, 806, 1503, 1600, 1701, 1702, 1703	Grading Test	AASHTO T 88-19
		Plasticity Test and bloom disc siduled.	AASHTO T 89-13 and T 90-16
1. EXCAVATED		Laboratory Compaction (Standard)	AASHTO T 180-18
MATERIALS		Field Density Test (FDT) not no each	AASHTO T 191-14
		Organic Content Instruction	AASHTO T 267
	AASHTO	California Bearing Ratio (CBR)	AASHTO T 193-13 / ASTM D 1883-16
2. EMBANKMENT	804, 1601, 1704, 1705, 1710	Same as No. 1 above	
MATERIALS OF THE COMMENT OF THE COME	AASHTO	54, 1111, 1206, Abrasion Test test pribary Services test test test pribary test test test test pribary test test test test test test test tes	AASHTO T 27-14(2018)/(ASTM C 136M-19) AASHTO T 11-05(2018)/ (ASTM C 117-17)
	B.18, B.20, B.21, B.26,	Bulk Specific Gravity	AASHTO T 84-13(2017)/(ASTM C 128-15)
	807, 808, 900, 901, 1001, 1002, 1018, 1021,	Absorption	7,10,110
	1022, 1026, 1027, 1029, 1046, 1051, 1052, 1054,	Effect of Organic Impurities on Strength of Mortar	AASHTO T 71-08(2017) (ASTM C 87M-17)
3. FINE AGGREGATES	1111, 1206, 1300, 1402,	Soundness Test	AASHTO T 104-99(2016) (ASTM C 88M-18)
	1406, 1407, 1602, 1710, 1711, 1712, 1713, 1716, 1718, 1720, 1722, 1724, 1728	Organic Impurities 3291 NOISENDA TOTAL	AASHTO T 21M-15 (ASTM C 40M-20)
		Unit Weight	AASHTO T 19M-14(2018)/ (ASTM C 29M- 17a)
	AASHTO I	Clay Lumps and Friable Particles	AASHTO T 112-00(2017) (ASTM C 142M- 17)

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TEST METHOD	TESTS TO BE PERFORMED	ILEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	TOUGONG NO STAINGLEM	
ASTM C144-18	Grading Test			
· Paris Laurence ·	Specific Gravity			
	Silica Content			
	Soluble Salts (Sulfates, Chlorides, and Alkalies such as Na ₂ O, K ₂ O, CAO)	1024	4. SILICA SAND	
ASTM C146-94a(2014)	Clay and Organic Matter			
	Loss on Ignition			
	Moisture Content			
(81.97) (81.19) (81.18) (41.11) (41.11) (41.11) (41.11)	Grading Test	B.18, B.20, B.21, B.26,		
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Bulk Specific Gravity	,±06 ,006 ,808 ,708		
Z1-7S1 D MT2A\(810S)+1-28 T OTH2AA	Absorption	1022, 1054, 1111, 1206, 1001, 1	5. COARSE AGGREGATES	
(02-M1£1 D MT2A)/(0102)20-96 T OTH2AA	Abrasion Test	1300, 1402, 1406, 1407,		
ASHTO T 104-99(2016) (ASTM C 88M-18)	Soundness Test	8271 ,4251 ,2271 ,0271 8271 ,4251 ,2271 ,0271		
-Mes D MT2A) (810S)+1-Me1 T OTH2AA	Jheight Weight	07/7/1-7/7/1-7/-	The state of the s	
AASHTO T 27-14(2018) / T 11-05(2018)	Jest Priading Test			
61-09 T bns (\(\(\)\)(\(\)\)(\(\)\)	Plasticity Test			
(ASTM C 131M-144)	Abrasion Test		6. AGGREGATE SUBBASE	
19S1-7221 G MT2A/81-081 T OTH2AA	Laboratory Compaction (Modified)		COURSE MATERIALS	
61-E881 Q MT2A \ (\(\tau\)\)\S1-E61 T OTH2AA	California Bearing Ratio (CBR)			
-Mazat d MT2A \ (8102)+1-161 T OTH2AA 1921	Field Density Test (FDT)			



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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	TESTS TO BE PERFORMED	
	1708	Same as No. 6 above	
AGGREGATE BASE COURSE MATERIALS	1700	Same as No. 6 above	ASTM D 5821-13(2017)
. CRUSHED AGGREGATE BASE COURSE	1709		ASTM D 6913M-17
MATERIALS	A STATE SAME	Grading Test	AASHTO T 89-13 and T 90-16
THE COMPLETE	1775-1646 	Plasticity Test	ASHTO T 100-15(2019) / ASTM D854-14
	B.19, 807	Specific Gravity	AASHTO T 88-19
9. FINE-GRAINED SOIL		Hydrometer Analysis	AASHTO T 265-15(2019) / ASTM D2216-19
		Moisture Content Determination	AASHTO T 176-17
9-02(2019) (ASTM CL31M-201 7-19(2011) (ASTM CL35M-19) 0-02/2019 (ASSM CL416) AS		Sand Equivalent Test	ASTM D 4959-16 ASCHTO T 255-00(2017) (ASTM C566-19)
		Moisture Content Determination	AASHTO T 217-14(2018) AASHTO T 265-15(2019)
TELETE I		Sensity (for emerger)	AASHTO T 88-19
H 14 LOLET (ASTM C29M-1 a)		Particle Size Analysis of Soils Amount of Materials Finer than 75µm (No.200) sieve by	AASHTO T 11-05(2018) (ASTM C117-17)
05-1	- 10 007 808	Washing Page Rocks and Amount of Place Rocks	ASTM D 4318-17e1
10. SOIL AND SOIL AGGREGATES	B.19, 807, 808	Plasticity Test	ASTM D4943-18
		Shrinkage Limit of Soil	ASTM D854-14
M IR (ASTM CLASM-15a)	en i other i	Specific Gravity of Soil by Water Pycnometer Sempartion Test /	AASHTO T 99-18 / T 180-18 ASTM D698-12e2 / D1557-12e1
(81 MEDER) MTEALLS)	COL TOTAL	Laboratory Compaction Test / Moisture Density Relation urrent issue. The parties to construction contracts shall rely on the issue.	sue current at the time of bidding.

13. CONCRETE

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Quality Tests on Construction Materials

OS-MEALID MTZA	teat noitisatilust motte	IRED PRODUCTS	CONCRETE AND OTHER MANUFACTL
(BC1-Mess MT2A) (810s)+1-Me1 T OTH2AA	Jest Teulubo	All the Control Control	0.0
(\(\sigma\) (\(\sigma\) (\(\sigma\) (\(\sigma\) (\(\sigma\) (\(\sigma\)) (\(\sigma\) (\(\sigma\)) (\(\sigma\) (\(\sigma\)) (\(\sigma\) (\(\sigma\)) (\(\sigma\)) (\(\sigma\) (\(\sigma\)) (ensity (for crushed slag)		LS. RAMMED AGGREGATE
(0S-M1E13 MT2A) (ASTM C131M-20)	ractured Face (for crushed gravel)		Lie Jako parajija
(61-M3E13 MT2A) (81018) (ASTM C136M-19)	test noiserd		77000
(0S-M1E13 MT2A) (0102)S0-06 T OTH2AA	teating Test	0.71	11. CRUSHED STONE SLAG GRAVEL
() () () () () () () ()	dorestine Content ment test noiserd		
12 13 (STOC) E1-18 UIHCHA	Specific Gravity and Absorption of Fine and Course Aggregates	T. Control of the Con	it with a time to a superior
(81-M88) (ASTM C88M-18)	Specific Gravity and Absorption of Tringers of Tringer		
(\tau \tau \tau \tau \tau \tau \tau \tau	Soundness Test (by use of sodium or magnesium sulfate)	5 P F ₂	Of the Annual Annual page
MSH10 1 SIM-15(2019) (ASTM C40M-20)	Effect of Organic Impurities in Fine Aggregates on Strength of Mortar		
(BST1-MGS) (ASTM C29M-178)	Organic Impurities in Fine Addredates for Garage		34 11 11
91-E881d MT2A	Unit Weight of Aggregates		8 28 m 25
1921-M922IQ MT2A	California Bearing Ratio		
TEST METHOD	Density of Soil In-placed by Sand Cone Method		
TEST METHOD	TESTS TO BE PERFORMED	VOL III, 2019 EDITION)	
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Page No			MATERIAL
Date OCTORED see	SIRITATEMENT		

NOTE: The calendar year indicated for the above standards is the current issue. The parties to construction contracts shall rely on the issue current at the time of bidding. (671-M8E13 MT2A) e1-M1S1 T OTH2AA (81-ME0+2) MT2A) 11-M761 T OTH2AA 1052, 1054, 1111, 1206, (BZI-MEAI) MT2A) 81-MEII T OTH2AA Time of Setting 1002, 1018, 1049, 1051,

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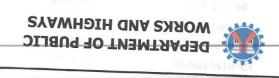
1001, 100, 000, TOOL, 1001,

8.18, B.20, B.21, B.26,



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MATERIALS OR PRODUCT		TESTS TO BE PERFORMED	TEST METHOD ALREY AM
PIATERIALO	1300, 1402, 1406, 1407,	Bleeding (when Air-entraining admixture is used)	AASHTO T 158-11(2019) (ASTM C 232M- 14)(2019)
107M-18 (ASTM CISIM-18)	1712, 1713, 1716, 1718, 1720, 1722, 1724, 1728	Weight per cubic meter	AASHTO T 121M-19 (ASTM C138M-17a)
T 106M-18 (ASTM C199M-20a)		a supported vertical triangle of World	AASHTO T 152-19
37-15		Air Content	
	AASHTO	Yield Compressive Strength Test	AASHTO T 22M-20 (ASTM C39M-20)
		(Concrete Cylinders and Cores)	AASHTO T 97-18 (ASTM C78M-18)
	AASHTO	Flexural Strength Test (Third-Point Loading) Flexural Strength Test (Center-Point Loading)	AASHTO T 177-17 (ASTM C293M-16)
		Obtaining and Testing Drilled Cores and Sawed Bearis	AASHTO T 24M-15(2019) (ASTM C42M-20)
		of Concrete Splitting Tensile Strength of Cylindrical Concrete	AASHTO T 198-15(2019) (ASTM C496M-17
	ASTM CLS	Specimens Test Length Change of Hardened Hydraulic Cement Mortar	AASHTO T 160-17 (ASTM C157M-17)
	ASTM DS	and Concrete Length of Drilled Concrete Core/	AASHTO T 148-15(2019)/ ASTM C174M-17
		Thickness of Specimen Test	======================================
	B.18, B.20, B.21, B.26, 807, 900, 901, 1001,	Specific Gravity/Density	AASHTO T 153-20 (ASTM C204-18)
14. PORTLAND CEMENT Physical Tests	1002, 1018, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1046,	Fineness (By Air Permeability)	AASHTO T 129-14(2018) (ASTM C187-16)
		Normal Consistency	AASHTO T 131-20 (ASTM C191-19)
(55-13(2017) / ASTM C156-17	1049, 1051, 1052, 1054 1111, 1206, 1300, 1402 1406, 1407, 1602,	Time of Setting: By Vicat Needle Time of Setting: By Gilmore Needles	AASHTO T 154-18 (ASTM C266-18)



Quality Tests on Construction Materials Pate Date Date October 2020

TEST METHOD	TESTS TO BE PERFORMED	ILEMS OF WORK (DPWH STANDARD SPECIFICATIONS, AND III, 2019 EDITION)	MATERIALS OR PRODUCT	
302.4 03	Autoclave Expansion	1710, 1711, 1712, 1713, 1713,	44 II(A 144 ASHI C 232M	
(81-M121) MT2A) 81-M701 T OTH2AA	Mortar Test/Compressive Strength	1722, 1724, 1728		
(50S-M901 MTSA) 81-M901 T OTHSAA	Flow of Cement Mortar (other than Portland Cement)	- 1V c. 1 7		
ASTM C1437-15	Air Content of Cement Mortar			
(0S-281 C MTZA) (0SOS)S1-7E1 T OTH2AA	1 16 (17)		TWO (FEW Cathol)	
	Sulfur Trioxide			
	Aagnesium Oxide		Chemical Tests	
(81-411) MT2A) 0S-201 T OTH2AA	Insoluble Residue	75-35 TO		
	Loss on Ignition	B.18. B.20. B.21 B.20		
	Ohtaining and Testing DrilledtsTHq	'IOOT 'TOE 'OOE '		
	Percent Total Solids	CCOL LCOL STOT COUL	я , то	
ASTM C1602M-18	Mortar Strength	MCRETING 1054, 1111, 1206, 1300, 1049, 1050, 1052, 105		
SI-SIZO MT2A	Sulfate Content by Gravimetric Method	1602, 1710, 1711, 1712,	The Contraction	
	Chloride Content	1/13, 1716, 1718, 1720	(a (a (a a a a a a a a a a a a a a a	
90 / 67:3 9 0 / 67:3	Test Test Trees The Art Horning Its Test Ho	B.21, 900, 1049, 1052,	adilty1MQA A	
ASTM C494M-19	pecific Gravity		S. ADMIXTURE	
ASTM C260M-10a(2016)	otal Solid (Residue by Oven Drying), % by mass	8271,4271,0171	131 m (92,00 cm)	
77.77	pecific Gravity	8'51' 600' 601' 1020'	сиктие сомроимр	
ASHTO T 155-13(2017) / ASTM C156-17 ASHTO M 148-05/ASTM C309-19	est on Appearance on Concrete Surface	1052, 1111, 1300, 1402,	: The calendar year indicated for the	



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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	TESTS TO BE PERFORMED MAGNETIC CONTROL OF CHARGE CONTROL OF CONTROL OF CONTROL OF CONTROL OF CHARGE CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF C	TEST METHOD ALREAM
	1406, 1407, 1712, 1713,	Character of Film nolsegnol	
	1716, 1722, 1724, 1728	Water Retention Test	
	ACTM E1	Drying Time	
	TA NETTA	Liquid Membrane-Forming Compounds	Chemical Tests
18. HYDRATED LIME		Grading	
Physical Tests 1981-210A MTZA) 21-M1E N	1018, 1022, 1027, 1052,	Specific Gravity	ASTM C110-16e1
	1714	Percentage Residue	ASTM CITO-IDEI
		Standard Consistency	
68M-09 (ASTM E8M-16ae1)		Calcium Oxide (CaO)	ASTM C25-19 JEETS GETAGO YXOSI
Chemical Tests TRAY 81-AAS TOTAL	AASHTO	Magnesium Oxide (MgO)	BAR
	1040	Compressive Strength	
19. GROUT CUBES	1049	Density	
METALLIC MATERIALS	ara myaa	Phosphorous Content	
20. REINFORCING STEEL BAR	P 40 P 20 P 21 P 26	Actual Unit Mass seem Jinickness	
Physical Tests 81-M88 M OT 581-M800 A	1402, 1406, 1407, 1712, 1716, 1718,	Variation in Mass	AASHTO M 31M-19 (ASTM A615-18e1
		Deformation Measurement Description See One Description Measurement	PNS 49:2002 AASHTO T 68M-09 (ASTM E8M-16ae1)
		Test for Tensile Properties Yield Point Tensile Strength Tensile Strength	AASHTO T 244-18 (ASTM A370-19e1)

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	4771,400 ,20 <u>9</u>	Tensile Strength	81-156A MT2A	
	1000	Elongation	POT 1-11-007 V 1-11-01/	
22. WIRE MESH	B.26, 900, 902	Bend Test	81-MƏEE M OTHZAA 681-M+301 A MTZA	
	9.0	Tensile Strength Test	008° E3	
		Coating Thickness	61-M456A MT2A \ 61-M255A MT2A	
		Phosphorous Content	81-02E 3 MT2A \ 691-13\A MT2A	
		Fracture	ASTA E1820	
		Test for Bending Properties	a 73-5	
		Elongation		
21. EPOXY COATED STEEL BAR	706	Yield Point	(1961-075A MT2A) 80-M86 T OTH2AA (1961-075A MT2A) 81-442 T OTH2AA	
		Properties Tensile Strength Test	M366A MTZA) (610S)01-MSSE M OTHZAA (61 (61)	
		Deformation Measurement	81-M805A MTZA	
		sam ni noiteireV	1981-218A MT2A) 91-M18 M OTH2AA 2002:94 2N9	
	-	Actual Unit Mass	V 157 1787	
		Phosphorous Content	81-02E	
Chemical Tests		Fracture	ASTM E1820	
		Test for Bending Properties		
		Flongation	2 - 10 7.26, 2.72	
MATERIALS OR PRODUCT	ILEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD	



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MATERIALS OR PRODUCT	(DPWH STAN	S OF WORK DARD SPECIFICATIONS, I, 2019 EDITION)	ROBRES DE TESTS TO BE PERFORMED NAGW TO 21	TEST METHOD AT 9 T AM NO.
			Bend Test (Tipnerus elizaet)	AASHTO M 30-15(2019) ASTM A741-11(2016)
			Elongation nitgnersd Strength	ASTM A/41-11(2016) A 733
	ASEA MIGA	Breaking Strength		- Wide Flange, BW - Heavy Column, BH
			Ductility noisnami@	Wide Flange Tee
23. WIRE ROPE OR WIRE CABLE	-		Dimension and Construction	BWT ti Cold Formed Plate
	ASTM A35M		Coating Weight (s) as old as emiss	Shapes
	- ASTM ASM-		Adherence	- Angle, BA Channel, BC
			Continuity	c. Cold Formed Light Gage Shapes
PI-MASA MIZA		Uniformity	eage stapes Lip Cee, LC	
			Tensile Strength (8) dx on as small	- Up Zee, LZ - Rectangular 81-160A MTSA
24. WIRE STRAND		902	Bend Test	AASHTO M 203M-20 / ASTM A416M-18
			Elongation	Square Tubing L'02-M1001A MTZA
25. PRESTRESSING REINFORCING STEEL				- Wide Flange, W - S Shape, S
			Tensile Strength	- Channel, C - Structural Tee, WT
a High-Tensile Wire		2,1300,1716,17 17	Yield Strength (a) 26 (a) Same as No. 26 (a)	ASTM A421M-15
	ZOZICI CNI		Elongation	- Pipe - Standard, PS
b. High-Tensile Wire Strand			Breaking Strength	Pipe - Extra strong,
	904,1052,1300,1716,17	Yield Strength	ASTM A416M-18	
or Rope			Elongation	EXUA, PD
	ASTM A1008		Stress Relaxation Properties Stress Relaxation Properties	e. Metal Deck 1.0

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M-20	18001A MTZA			Tensile Strength	4501 'EE01	e. Metal Deck
	050S:64 SNG	1200,1716,17	Tiongalion Tiongalion Tiongalion Tiongalion Tiongalion Tiongalion Tiongalion Tiongalion Tiongalion	Same as No. 26 (a)		d. Rolled Steel Shapes - Wide Flange, W - S Shape, S - Channel, C - Structural Tee, WT - Angle, L - Pipe - Standard, PS - Pipe - Extra Strong, PE - Pipe - Double - Pipe - Double
	-M3EA MTZA 21-M3A MTZA		Rend ie.	Same as No. 26 (a)	Z 0 0T	c. Cold Formed Light Gage Shapes - Lip Cee, LC - Lip Zee, LZ - Rectangular - Rectangular - Square Tubing, LS
	-M3EA MT2A 11-M3A MT2A		Cheding Magain	Same as No. 26 (a)		b. Cold Formed Plate Shapes - Angle, BA - Channel, BC
			Salsajak	Dimension		- Wide Flange Tee, TWT
	I-M3A MT2A		Breaking Schill.	Flongation		- Wide Flange, BW - Heavy Column, BH
61-M8EA MTSA	-M3EA MTZA		Mendation	Yield Strength		a. Built-Up Shapes
			P658[] GEL	Tensile Strength		26. STRUCTURAL STEEL / METAL
TEST METHOD	D.V. E.	WED NUMBER OF THE STATE OF THE	яоняя эв от з	SLSSILD BE LEKENN	OF III' 3018 EDITION) EWS OF WORK	MATERIALS OR PRODUCT (DPWH S



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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	TESTS TO BE PERFORMED	AS OF WOR	TEST METHOD ALFATA
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ASTM A4	Yield Strength ridges of Sensor		ASTM A653M-20
83-15		Elongation feat notated Tisks		
	ASTM F4 ASTM E9	Base Metal Thickness		
	ASTM RE		20, B.21, 1 047, 1403,	ASTM A36M-19 ASTM A529M-19 ASTM A572M-15 ASTM A588M-19 ASTM A709M-15 ASTM A913M-03 ASTM A992M-20
g. Structural Tubing	1047	Same as No. 26 (a)		ASTM A500M-20 ASTM A501M-14 ASTM A618M-04(2015) ASTM A847M-14 ASTM A513M-20a
93M-20 54-17e2 49-14	ASTM AS ASTM AS ASTM AS	(a) (a) Same as No. 26 (a)	1047	ASTM A36M-19 ASTM A242M-13(2018) ASTM A283M-18 ASTM A514M-18e1 ASTM A529M-19
	ASTM A2	Same as No. 26 (a)		ASTM A572M-18 ASTM A588M-19
		Same as No. 26 (a)		ASTM A709M-15 ASTM A1011M-18a
i. Steel Casting and Forgings	EA MTZA 1047	Same as No. 26 (a) dispensive Strength	1047	ASTM A216M-18 ASTM A668M-20a Issue azsimista
j. Bolts, Nuts and	ASTM AS	Hardness dispersion of the Hardness dispersion o	7702	ASTM A307-14e1

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91-422A MT2A	Yield Strength	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Flagpole Post
61-MSIEA MTZA	Tensile Strength	ΖΦΟΤ	n, Stainless Steel
(\$102)30-24117 MT2A (\$102)36-962 M OTH2AA	Same as No. 26 (a)	Z+0T	m. Turnbuckle
0S-Mesa mtsa	Same as No. 26 (a)	1047	I. Headed Stud Anchors
61-M3EA MT2A 0S-M5E1A MT2A S9C1-P3EA MT2A P1-9PPA MT2A 81-MSC2A MT2A 81-P321-1 MT2A	Same as No. 26 (a)	Z†0T	k. Anchor Rods and
	Chemical Composition	V 4.78	NAC CE
Fair Date on the	Protrusion Tangential Diameter Values		namina namina
	Number of Protrusions		Set 1-361
	Compression Load		runi de Martij
, 10 1 20	Inside and Outside Diameter	90+1 '20+1' 1401' 1409	
ASTM F844-07a(2013)	Dimension	B.16, B.20, B.21, 1007,	ZES
ASTM F593-17 ASTM F594-09(2020)	Flongation		Salamura Salamura
ASTM F436M-19 ASTM F959M-17a	Yield Point And Washington Theorem		
21-E92A MT2A	Frangation Test noisins Tisia		
₽1 – 8₽₽A MT2A 60S-M₽61 A MT2A -	Tensile Strength the Strength		Mashers
TEST METHOD ALSO NOT NOT NOT NOT NOT NOT NOT NOT NOT NO	TESTS TO BE PERFORMED	NOF III' 5019 EDILION) (DEWH STRUDKED SPECIFICATIONS)	TOUDORY RO ELERIALS OR PRODUCT



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		Elongation meneral of control	
		Dimension (Length, Diameter, Thickness)	29. METAL STUDS AND TRACK
		Hardness Test	
	MICC CITE RELEATER	Mechanical Test: -Transverse/Longitudinal Tension Test -Flattening Test	PLEX ANCHORS
	100 170	Tolerance (Straightness, Ovality)	
		Heat Analysis	31. HEADED STUD EMBED
	30 A MTex	Weld Decay Test	ANCHORS
		Grain Size Determination	52714
		Hydrostatic Test Hydrostatic Test	
202M-19(ASTR AS28M-	MOREE	Dimension (Outside Diameter, Wall Thickness, Eccentricity, Toe-in and Special Sizes)	32. STEEL SHEET PILE 1052, 12
	ALTM AS CO	Tensile Strength	AASHTO M 36M-16(2020) (ASTM A760M- 15(2020))
		Flexural Modulus	AASHTO M 218-03(2020)
27. STEEL PIPE	1718	Hydrostatic Strength	AASHTO M 245-20 (ASTM A762M-19) AASHTO M 246-15(2019) (ASTM A742M-2
		Melt Index alternate lanuxali	AASHTO M 190-04(2017)
	CRIV MICH	Slow Crack Growth Resistance	
(A102)01-3F-17-ATPA		Color Idea and Idea a	ASTM A53M-20 PILES (3V9)
	ASTM DRAS	UV Stabilizer, HDB and HDS	
28. ANCHOR BOLTS	1054	Same as No. 26 (j)	

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		Thickness	AACHOR COLLS	
		Heat Deflection Temperature	81-849d MT2A	
(PVC) SHEET PILES		Notched Izod Impact	ASTM D256-10(2018)	
33. POLYVINYL CHLORIDE	2121	Modulus of Elasticity	/T 06 /G LUGY	
. 30 1 15 120	0.0° 0.00	Flexural Strength	71-0670 MTSA	
		Tensile Strength	P1-8E9D MT2A	
		Dimension		
entre 18 25 Orangemen	v/E =1	Elongation	81-MSTZA MTZA	
2. STEEL SHEET PILE	1052, 1300, 1716, 1717	Yield Point	-M8SEA MT2A) 01-MSOS M OTH2AA ((810S)₅E1	
		Tensile Strength	* L	
SILLES		Stati Size Deletimates		
I. HEADED STUD EMBED	702¢	Same as No. 26 (I)	81-801 A MT2A	
30. FLEX ANCHORS	7024	Same as No. 26 (I)	0S-M9SA MT2A 81-801A MT2A 91-8E38 MT2A	
29. METAL STUDS AND TRACK		Zinc Coating Test		
	1024	Yield Strength	0S-MEZƏA MTZA 681-M1101A MTZA	
	-	Tensile Strength The French Park		
MATERIALS OR PRODUCT	ILEMS OF WORK (DPWH STRUDERD SPECIFICATIONS) VOL III, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD	



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		Weight	-
		Moment of Inertia	-
	1 feb. 12 - 154	Section Modulus	- Spanner August and
	TO STEEL	Ultimate Moment	- 810
		Allowable Moment	-
34. STEEL H-PILES	1052, 1300, 1716	Same as No. 26 (d)	ASTM A36M-19 ASTM A690M-13a(2018)
35. STEEL PILE SHOES	1052, 1300, 1716	Same as No. 26 (i)	ASTM A148M-20e1
		Density	ASTM D4380-12
36. SLURRY	1052, 1300, 1716	Viscosity	ASTM D6910-19
		Thickness	-
EXPANSION JOINT MATERIA	LS	(SURREMARKS) (CENTRAL)	
		Recovery	
		Compression	8. CONCRETE HOLLOW BLOCKS AND
37. EXPANSION JOINT a. Bituminous Type	OFFICE RESERVED	Extrusion	AASHTO M 33M-20 (ASTM D994M-
	900	Density	11(2016))
		Asphalt Content	
		Water Absorption (1991) Vilane	
		Dimension (Width, Length, Thickness)	

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	Кесолегу		
\ 02-EZI M OTHSAA	Compression		
	noizurtxa	000	b. Sponge Rubber and
81-SZTIQ MTSA	Density	006	Cork
	Expansion in Boiling Water		
	Boiling in Hydrochloric Acid	-14	do al
61-24-20 MT2A) (81-13719 M OTH2AA	Same as No. 37-a above	006	c. Nonextruding and Resilient Bituminous Type
			MISCELLANEOUS MATERIALS
	Load-Bearing Concrete Hollow Blocks:		21 W-
	Thickness		
ASTM C90-168	Strength (compressive)		
	Water Absorption		
	Density (oven-dry) Compression Test		38. CONCRETE HOLLOW BLOCKS AND COUVERS
ASTM C140M-20a			
ASTM C426-16	Moisture Content and Water Absorption.		
ar gering an indicate vide-	Mon-load bearing Concrete Hollow Blocks and Louver Blocks:		
	Density (oven-dry)		
	Strength (compressive)		



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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	NOTIFICATION OF WORK DEPTORMED NOT STEET BE PERFORMED.	TEST METHOD AIRSTAM	
		Moisture-Content Instinct enutrioM		
		Compression Test	ASTM C140M-20a	
12465;2017	, PNS 150	Moisture Content and Water Absorption.	ASTM C426-16	
		Nominal Dry Bulk Density Control		
39. AUTOCLAVED AERATED CONCRETE	1046	Compressive Strength Test	ASTM C1693-11(2017)	
(AAC) BLOCKS		Average Drying Shrinkage / Moisture Content & Bulk Density Determination		
40. ADOBE BLOCKS	1046	Compressive Strength Test	ASTM C67M-20	
		Initial Moisture Content		
		Basic Density		
	B.18, B.21, B.26, 807, 903, 1003, 1019, 1051,	Tensile Test	AASHTO M 168-07(2020) AASHTO M 133-12(2020)	
41. TIMBER (2020) 138-881 M	1052, 1300, 1401,	Compressive Test (Stress-Strain Relationship)		
	1402, 1716, 1717, 1722	Shrinkage (Tangential, Radial and Differential)		
	ASTM D1	Diffusion emiT griyn0		
371 19	ASTM D2	26, 1032, 1051 Total Pigment (Extraction) senshirt	Z. PAINT B.21, B	
42. LUMBER	SO MTZA 1003	Shear Test (Jriggiew yd) abilos listoT	AASHTO M 168-07(2020)	
	I'U MT2A	Moisture Content		
CF TCA		Thickness	PNS ISO 12465:2017	
43. PLYWOD C5-078	1003, 1015	Shear Test Drying Time test Page 1722	PNS ISO 12466-1:2016 PNS ISO 12466-2:2016	

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HCTNINA 101	1035, 1051, 1722	Drying Time	ASTM D1640M-14(2018)	
HSINAAV .84	1032 1021 1233	Density/Specific Gravity	E1-27-11 MT2A	
THE RESERVE AND THE PERSON OF		Fineness	(+102)20-0151d MT2A	
	Vage 1.73	Total Solids (by weight) Total Solids (by volume)	19(2102)01-69ESQ MT2A	
TNIA9 . 74	B.21, B.26, 1032, 1051	Total Pigment (Extraction)	61-17520 MT2A	
		Prying Time	(8102)+1-M0+91D MT2A	
	ercosta!?	Density/Specific Gravity	E1-27+10 MT2A	
46. PRESERVATIVE	8.21, 8.26, 807, 903, 2271, 1401, 1722	130	(0202)S1-EE1 M OTH2AA	
1000 0 000 000		Water Absorption/Resistance	8.18.7	
		Permeance		
		Mail Pull Resistance		
45. GYPSUM BOARD	1003, 1041	Deflection	ASTM C1396-17	
	7545 - 3 5 6 1 ₆ 6	Flexural strength	No Ci Brothe	
	731km 1	Dimension (Thickness, Width)	FOR YORK TOMELOUS	
		Moisture Content		
44. PLYBOARD	1003	Sheari Test and line trioding a governor	PNS ISO 12465:2017	
	Version Co	Thickness teal and enginess		
		Moisture Content and action Moisture		
MATERIALS OR PRODUCT	ILEWS OF WORK (DPWH STANDARD SPECIFICATIONS,	TESTS TO BE PERFORMED	TEST METHOD	



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MATERIALS OR PRO	DDUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	NORK DEPORTS TO BE PERFORMED SECTION OF STREET BE PERFORMED. 2019 ELECTION.	ITEI (DPWH STA VOL	TEST METHOD IATS TAN
			Total Pigment (Extraction) and redsW	ASTM D2	2371-19
			Total Solids (by weight) Total Solids (by volume)	ASTM D2	2369 - 20
			Homogeneity: Clarity and Cleanness Fineness		
			Design Thickness rolo2		
	039M-17	EQ MIZA	Viscosity dignana slians (
	VITTHECUL	50.71107	Flash Point VIDUS OF EIGSTON SAGE		
			Film Thickness Viranga		
	- ASTM 07234-19		Gloss 2000 Strength to Concresion		
49. SHELLAC and	34-16	ASTM 10	Elongation/Flexibility (discosity)	EPOXY ADHESTVE FOR CARBON FIBER	
LACQUER	38-14	1051, 1722	Hardness dignards Strength		,
	MOG	ASTM D7	Abrasion Resistance deposit Isruxell		
		ASTM DE	Compressive Strength triangle	SHEET	
		ASTM D1	Household Chemical Resistance		
		ASTM D7	Outdoor Exposure		
			Temperature-Change Resistance		
		-	Salt Fog (Jb)W 8501		
	039M-17	EU MISA	Water Fog Test dipneral elizaet		
		La la Lora	Modulus of Flasticity		

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11831-10	THE OR	Water Immersion Testure no de la	
११व - ११	v27 = 3	Perspiration Resistance	
2		Plasticizer Migration	
		Chip Resistance	
		Design Thickness	
		Tensile Strength	
TEER SHEET	1048	Modulus of Elasticity	71-M65050 MT2A
		Density	
		Pull-off Bond Strength to Concrete	61-45270 MT2A
		Viscosity	61-4801 MT2A
a la	= 14 = 1	Tensile Strength	P1-8E3M MTSA
FOR CARBON FIBER		Flexural Strength	M0e7d MT2A
SHEET	1048	Compressive Strength	MZ69G MTZA
	= 1	Tensile Shear Bond to Steel	(E10S)01-S001G MT2A
		Pull-off Bond Strength	61-4527d MT2A
		Design Thickness	-
arv id dadra Noddvo	3701	Width	-
SARBON FIBER PLATE	1048	Tensile Strength	ZI WOOOG WESV
		Modulus of Elasticity	ZI-M68080 MT2A ─



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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	ROBERTS TO BE PERFORMED MAD BE RESTRICTED BY THE BY THE BY THE BY THE BY THE RESTRICTED BY THE B	TEST METHOD AIR TANK
		Density digneral offene	
		Carbon Fiber Weight	P
		Pull-off Bond Strength	ASTM D7234-19
6+ 9EZ	KG MTZA	Specific Gravity appends and Turklus	ASTM D792-13
	ASTRI DA	Flexural Strength viivs is allosed	ASTM D790-17
	astm de	Compressive Strength	ASTM D695/D3410
53. EPOXY ADHESIVE FOR CARBON FIBER	KOMISA	Modulus of Elasticity Ingrand Issues 84-01	ASTM D695-15 MOTTOBUMI
PLATE (0105)01-500	1048	Tensile Strength, briog about allians I	ASTM D638-14
	ASTM DZ	Tensile Shear Bond of disposal 2 book y	ASTM D1002-10(2019)
	ASTM CS	Bond Strength to: Carbon Fiber Plate and Concrete Carbon Fiber Plate and Steel	Z. POLYMER CEMENT 91-48270 MT2A
PM-20		Fiber Areal Weight easy pulbering	
		Design Thickness jas in Algorithm Thickness	-
SECULIARIO MEDIA A CREDITA CARDI LA CARDINI LA CARDI LA C	OTFEAA L	Density Water Absorption Test	-
54. GLASS FIBER SHEET	OTHEAA 1048	Tensile Strength	S. CONCRETE PIPE
		Modulus of Elasticity a bead lemental	- ASTM D3039M-17
		Pull-off Bond Strength	ASTM D7234-19
4 196 16 (ASTM B745M 15) M 219-92(2017) (ASTM B746M-16)	AASHTO AASHTO	Design Thickness viscaed 81%1	9. ALUMINUM PIPE -
55. ARAMID FIBER SHEET	83 MT2A 1048	Fiber Areal Weight	ASTM D3039M-17

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TOUGORA RO PLEATERIALS OR PRODUCT	ILEMS OF WORK VOL III, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD	
		Tensile Strength		
		Modulus of Elasticity		
77.35	8. 24 8	Tensile Capacity		
	- AP - 103	Pull-off Bond Strength	61-45270 MT2A	
	9, 21	Specific Gravity	E1-2670 MT2A	
YXO9 FOR EPOXY		Compressive Strength	ASTM D695-15	
INJECTION	1048	Flexural Strength	AT-0970 MT2A	
	v - 69	Tensile Shear Bond Strength	(610S)01-S001G MT2A	
		Bond Strength to Concrete	61-45270 MT2A	
POLYMER CEMENT	2 12.44	Compressive Strength	ASTM C39M-20	
PATCHING MATERIAL	1048	Pull-Off Bond Strength to Concrete	61-45270 MT2A	
		Bleeding Rate	ASTM C39M-20	
		Strength Test		
CONCRETE PIPE	8171 81 9	Water Absorption Test	ASHTO T 280-14(2018) (ASTM C497-19a	
	B.18, 1718	noiznamia	(461-97) MT2A) 0S-071 M OTH2AA	
		External Load Crushing Strength		
		Dimension	ASHTO M 196-16 (ASTM B745M-15) ASHTO M 219-92(2017) (ASTM B746M-16) L9601-M83 MT2A	
ALUMINUM PIPE	8171	Density		
		Jest Tersile Test		



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MATERIALS OR PRODUCT	ITEMS OF VOLUME (DPWH STANDARD SPE	CIFICATIONS,	ROBERT TO BE PERFORMED NOTICE PERFORMED NOTICE PERFORMENT OF THE P	TEST METHOD AT STANK
			Bend Test nakenemici	3. EXTRA STRENGTH AND
81-01	TO METAAL!		Dimension	TANDARD STRENGTH CLAY RE AND RERFORATED CLAY
			Density	35
			Melt Index solution	AASHTO M 252-20
60. PLASTIC PIPE	OTHERA 1718		Flexural Modulus validasems9 0171	ASTM F714-13(2019)
			Tensile Strength JesT DubisonbyH	AASHTO M 278-15(2019)
			Slow Crack Growth Resistance	
			Hydrostatic Strength Test T dela 1614	
n 176M-20 (ASTM C654-19)			Tensile Strength dispersion	
			Hardness noitgroadA	
			Breaking Load DidataonbyH	ASTM A74-20
			Machined Diameter	ASTM A48M-03(2016) ASTM A47M-99(2018)e1
	OTHEAA 1001		Chemical composition (phosphorous, sulfur, chromium, titanium, aluminum, lead, and carbon)	ASTM A536-84(2019)e1
			Dimension (for hub, spigot, barrel, grooves, water seal and trap)	
			Coating teeT used a trios	
			Ultraviolet (UV) Radiation Stability	ASTM D4355M-14(2018)
62. ZINC COATED (GALVANIZED) CORRUGATED	1719		Mass (Weight) of Coating	AASHTO M 36M-16(2020) [ASTM A760M- 15(2020)]
IRON PIPE 81-MES	ASTM CZ		Dimension noisemid 2773	-

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		6121	Dimension Colembra Dimension	ASTM C293M-16
r ar the graft thagailse mail eaglife	100		Off-Center Hydrostatic Joint Test	CRC COATED
Marie Tolking	7216		Alkalinity of Concrete Mixture	
3			Joint Shear Test	
			Gasket Lubricant Tests	
			Cylinder Strength	
2 30 30 16 41	and the second of the second of the second of	I man a sample of the re-	Manhole Step	(810S)+1-08S T OTH2AA
5. POROUS CONCRETE PIPE	10 mi	6121	Permeability	(A24-19)
		Hydrostatic		
		Absorption		
			Core Strength	
			Flat Slab Tops	
			Three-Edge-Bearing Test Method	
A SHR HE' ILUI	F 8 - 119 - 129		Hydrostatic Test	
4. PERFORATED CONCRETE IPE	70.0 1 6	6171	Permeability	(0202)20-MZ\I M OTH2AA
aladakos darvadada v	2300 200		Dimension	
3d1	11		Acid Resistance Test	
TANDARD STRENGTH CLAY IPE AND PERFORATED CLAY	61/1		tecT earching bisA	ASTM C700-18
3. EXTRA STRENGTH AND			Dimension Dimension	
MATERIALS OR PRODUCT	MAT2 HW90)	II, 2019 EDITION) MORR SPECIFICATIONS, MORK	TESTS TO BE PERFORMED	TEST METHOD



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66. BITUMINIZED-FIBER NON-PRESSURE SEWER DRAIN AND UNDERDRAINAGE PIPE SYSTEMS	OTHE		Modulus of Rupture anoisessmid agiq	gard awa Ivangov (on .co
67. CORRUGATED POLYETHYLENE DRAINAGE		1719	Pipe Stiffness Pipe Flattening	AASHTO M 25220
PIPE (2015)			Environmental Stress Cracking Brittleness	70. ASBESTOS-CEMENT PERFORATED UNDERDRAIN PIPE
M 105-09(2018)/ASTM A74-			Workmanship (Color, Opacity, Density) Dimension (Diameter, Thickness, Bell Wall Thickness) Pipe Flattening	
A 48M-03(2016)/ASTM A27N: A126-04(2019) (VINYL CHLORIDE)			Pipe Impact Strength Pipe Stiffness Pipe Stiffness	A. GRAY IRON CASTING
(PVC) PROFILE WALL DRAIN PIPE		1719 (nuit	Soiltight Joints Watertight Joints Extrusion Quality:	AASHTO M 304-11(2019)
5M-19			Acetone Immersion Heat Reversion Perforations	
			Internal Sleeve Dimensions	

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TEST METHOD	TESTS TO BE PERFORMED	NOF III' SOTO EDILION) LLEMS OF WORK	MATERIALS OR PRODUCT		
THE THE CHERT IS	Workmanship				
CONTROL POMER	Dimensions	į.			
OC-OEE WOTHSVV	Pipe Stiffness	0121	99' DOLYPROPYLENE PIPE		
0S-0EE M OTHSAA -	Environmental Stress Crack Resistance	6121	141 TENE LILEN		
1773 S. W. 132 S.	Systems Systems				
TO THE REPORT OF THE THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPOR	Brittleness		'		
ASTM C508M-00(2015)	Crushing Strength	6141	70. ASBESTOS-CEMENT PERFORATED UNDERDRAIN PIPE		
	Tensile Strength				
	Yield Point	Mar Paris 7			
-PSA MT2A\(810S)90-201 M OTH2AA -MSSA MT2A\(310S)80-M8AA MT2A\0S	Elongation	IRON CASTING 1720	1220	71. GRAY IRON CASTING	
-MYSA MT2A\(8105)E0-M84A MT2A\02 - 20\R31A MT2A\03	Reduction of Area	07.77	ONTICKO NOVIT I VOIG IT		
L F Y LAZRA L CIPLOREDEA	Dimension				
ROMO MALLDETIA	Chemical Analysis (Phosphorus and Sulfur)	(90.6	the state of the s		
	Tensile Strength	2301 2701 1001			
01-M35A MT2A	Vield Strength	1001, 1047, 1052, 1001 1403, 1			72. CARBON STRUCTURAL
61-M3EA MT2A -	Elongation	7727 '5727 '\$727 1750' 1756	STEEL		
	Chemical Composition				



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		Tensile Strength ZeenbasH llevaboR	
73. CARBON STEEL CAST	1001 1730	Yield Point nousequand summer	
73. CARBON STEEL CAST	1001, 1720	Elongation grapping Sheners	ASTM A27M-20
	ASTM D7	Reduction in Area vnegotia istuxeia	(6) FIBER REINFORCED
95-15	ASTM D6	Tensile Strength #25T noiszengmo0	PLASTIC (FRP)
	ASTM DS	Yield Strength Rollq coldA 1916W	
		Elongation Tensile Test noise Tensile Test	
74. DUCTILE IRON 05-MV	E 8 MT2A	Hardness notegnola	
		Chemical Composition alternated blef?	
	1002, 1724, 1729	Microstructure Insulational Heat Treatment	ASTM A536-84(2019)e1
974	SIP 558-	Pressure Tightness 201100-nodellohal	
		Radiographic Soundness	
		Magnetic Particle Inspection Dimensions	
		Surface Finish dipositive blair	
75. SILICON BRONZE	ASTM A3	Dimension (mass, diameter, shape, length, straightness, and edge contour)	18. STATNLESS STEEL
	1719, 1724	Diameter/Thickness Internal Planner	ASTM B98M-13(2019)
0-12B(2019)e1	ASTM E14	Yield Strength	13(2013)
1-1-49		Elongation robinsolition Chemical Composition	

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	1	Chemical Composition	6₽1-12√A MT2A	
		Hardness	15(2019)e1	
	T 50T	Diameter/Thickness Determination	1 Jenny 243E	
78. STAINLESS STEEL		Elongation	T2CT 0.4CM H1CM	
		Yield Strength	1961-07£A MTZA	
	(A)	Tensile Strength	9	
	-	Chemical Composition by Chemical and Spectrochemical Test Methods	BZ11M-19	
		Exfoliation-Corrosion Resistance	₽791-1974	
MUNIMUJA . TT	B.26, 1008, 1045, 1719	Heat Treatment	0S-M7088 MT2A	
711114271117		Yield Strength	ZI-YZZ 8 MTZA	
		Rlongation		
		Tensile Test		
		Water Absorption	(810S)86-0720 MT2A	
(987) OITEAJ9		Compression Test	Z1-Z690 MTZA	
76. FIBER REINFORCED	6TZT	Flexural Property	₹1-06₹₫ MTSA	
	11 0 0 00	Tensile Property	+1-8E3Q MT2A\(\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
		Chemical Composition		
		Rockwell Hardness and all all all all all all all all all al		
MATERIALS OR PRODUCT	ILEMS OF MORK (DPWH STRUDARD SPECIFICATIONS)	TESTS TO BE PERFORMED	TEST METHOD	



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12-43	NG MIRA!	Heat Treatment (Austinitic)	ASTM A479M-20
	ha mrea i	Corrosion Test (Austinitic)	ASTM A479M-20
		Magnetic Permeability (Severn-Type Indicator)	-
79. SPHEROIDAL GRAPHITE CAST IRON	TO MTEA	Yield Strength interegment associations	
a. Mooring Cleat	1400	Tensile Strength phasour to adpis W	ASTM A27M-20
b. Mooring Postc. Mooring Bittd. Mooring Bollard	DO MTRA	Elongation Strength Apparent Opening Size	
ASTM D4491M-20		Workmanship (color, opacity, density, and other physical properties)	
		Snat Tensile Strength noisnemid	
	ASTM D4	Impact Resistance and endish dead	ASTM D2241 - 15 ASTM D1785 - 15e1
		Pipe Stiffness privated privated mass?	ASTM D2665 - 14
80. PVC WEEPHOLES	PO MT2A	Extrusion: -Acetone Immersion -Heat Reversion	- ASTM D2680 – 01(2014) ASTM F679 -16 ASTM D2729 – 17
	NA MIDA	Soil Tightness talbast (VU) toloward	ASTM D3034-16
(0103)4.14(00	are then	Water Tightness granger and share T	
			-
81. GABIONS AND		Tensile Strength Test angles anabiW 4.101	ASTM D638-14
MATTRESSES	1714	Elongation nonzeomoo Nesh	
		Hardness esi2 daeM	ASTM D2240-15e1

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	-21 to 15	əziz AzəM	-
	****	Mesh Composition	A STABSSES -
83. NET BAGS		Width, Height	
		Elongation	-
		Tensile Strength was more analysis	-
		Ultraviolet (UV) Radiation Stability	(8102)+1-MZZEPQ MT2A
12-16 00 - 10 2 - 1	Velu 13	Tear Strength	ZI-MEE340 MTSA
	72 L	Puncture Resistance	\$1-14C9d MTSA
(TAM \ DIABAT)	- ASTM 02	Seam Breaking Strength	FSI-MSE3PM MTSA
82. FILTER MATERIALS	1402, 1714	Grab Failure Strain and a second programmer Strain	
	A AC SELLY	Grab Tensile Strength	
		Water Permittivity	0S-M16+49 MTSA
	->	Apparent Opening Size	0Z-121-D4751-20
		Punch Strength	The State of Society
		Weight of Coating	(010S)11-276A MT2A
	-	Brittleness Temperature	PY46-14 MTSA
		Resistance to Abrasion	-
		Modulus of Elasticity	81-2140 MT2A
	축은 10개 작곡	Specific Gravity and the manufacture of the second description of the	E1-2670 MT2A
MATERIALS OR PRODUCT	ILEMS OF MORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD



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				Capacity validixel and beautiful would	-	
OA NET VARN	61-M50	as MTZA	1714	Tensile Strength manual white years	ASTM D7179-18	
84. NET YARN	61-M8	VB MTRA		Elongation .mm, .mmed 5 trength, mim.	ASTM 0/1/9-16	
	51M-32(2020)	AS MISV		Compression, 10% Deform ratamaid	-	
85. ROPE	9PM 92(2020)		1714	Tensile Strength	-	
	87M-92(2020)			Elongation acisomo?	- SPRAYED	
	(0202)28 MR LE MIRA Furol Viscosity nounded 2201	CEMENTITIOUS FIREPROOFING				
28 + 20 36 - 136 20 36 - 136	60M-92(2020)			Distillation the part broad	ASTM D41M - 11(2016)	
				Plame Spread noitrained	ASTM D41M - 11(2010)	
	+20			Matter Soluble in Trichloroethylene		
	36-19A			Viscosity villiditsudmos-noM		
			Volume and Weight Of Solids			
	ing		1016	Behavior on heating: noisegnol3		
	erproofing			Tensile Strength		
ASTM D2161M - 20 ASTM E118 - 20a ASTM D4977M - 20 ASTM D226M - 17 ASTM D869M - 16a ASTM D6757M - 18			Permeance sonstriance acou	ASTM D6083M - 18 - 3009 TJAH92A .8		
			Water Swelling gnillew2 rateW			
				Adhesion noiseAdhesion		
				Fungi Resistance digneral real		
				Tear Resitance https://doi.org/10.1001	S, UNDERLAYMENT	

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BST - M72790 MT2A ASTM D6757M - 18	Breaking Strength	0507	
71 – M2SA MT2A	Tear Strength	T026	89. UNDERLAYMENT
02 - M77640 MTSA	Granule Adhesion		
ASTM E108 - 20a	Fire Resistance		
OS - MIÐIEG MTSA	Wind Resistance	1026	88. ASPHALT ROOF SHINGLES
BGI - M8SSQ MTSA	Behavior on heating: Loss of volatile matter Sliding of granular surfacing		52 1511115 1000 21111057 00
ASTM G21-15	Mold Resistance		
A91-9813 MT2A	Non-combustibility	_	
07.107.1116.	Zwoke Development		
ASTM E84-20	Flame Spread		
ASTM E760M-92(2020)	Bond Impact	- 2100	87. SPRAYED CEMENTITIOUS FIREPROOFING MATERIALS
ASTM E759M-92(2020)	Deflection	T022	
(2020)ASATM E937M-92(2020)	Corrosion		
W2TM E859M-92(2020)	Air Erosion, max.		·
ASTM E761M-92(2020)	Compression, 10% Deformation		
45 MTSA MT2A	Bond Strength, min.		
ASTM E605M-19	Dry Density, Minimum Average	Vel = (1)	
	Low Temperature Flexibility	И	
TEST METHOD	POPURE SELECTED BE PERFORMED SELECTION OF SE	ITEMS OF WORK (DPWH STRUDARD SPECIFICATIONS, VOL III, 2019 EDITION)	MATERIALS OR PRODUCT



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MATERIALS OR PRODUCT	ITEMS OF WC (DPWH STANDARD SPECIF VOL III, 2019 EDITI	CATIONS, TESTS TO BE PERFORMED	MATERIAL DOHTSM TRST METHOD AIR DARD UL 201
473±1,5	ASTM C	Pliability noubefied DefiblimuH	
152-13		Loss on Heating gonaletter Resistance	
1229-94(2015)		Liquid Water Transmission	
		Dimensional Stability nation Sinconix	
		Roll Width the state of the sta	
-130 (2009)		Roll Area Winned	2. ALKALI-RESISTANT
B66H-08(2015)		Behavior on Heating tigned a slane T	GLASS FIBERS
		Saturation Percent of Felt Magnus Y	
		Uniformity notisenel	
OO ACRUALT DOOF CEMENT	1056	Workability agyT bnuogmc0	ASTM D4586M - 07(2018)
90. ASPHALT ROOF CEMENT	1056	Pliability sqyT remylo9	ASTIM D4380M - 07(2018)
		Behavior at Given Temperature	
(0.001.001		Tension Test	ASTM C1230-96(2015)
130 (2019)		Compressive Strength	ASTM C109M-20b
91, GLASS FIBER		Flexural Strength mo-1-mi-1 muminiM	ASTM C947-03(2016)
REINFORCED CONCRETE	1054	Ultraviolet Resistance seenthal	ASTM D2583-13a/ASTM D785-08(2015)
(GFRC) COMPOSITES		Impact Resistance entrained ilsalia	ASTM D256-10(2018)
18		Surface Burning Test Coating Test	82f ASTM E84-20 DVIITAOJ DVIITA
		Thermal Expansion	ASTM D696-16

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94. ZINC COATING (GALVANIZING)	1058, 1730	Zinc Coating Test	81-98 MT2A
dd 7213g-87	, velal es	Alkali Resistance	(GERC) COMPOSTIES
813 12 IONS EN 12 WOLEKU 075 I		Ultraviolet Resistance	REDNEON COMURETE
er-Cartico		Minimum Film-Formation Temperature	- 108841118
BAUTXIMDA		Appearance Tunder of the Street	(5107) 051 7011 12 1
93. РОLYMER СИRING	1054	Hq Hq	- PCI MNL-130 (2019)
V		gehanici ai gartia paraciaj inspilos	
		Polymer Type	
2000	* 10.00	Compound Type	e. ASPHALT ROOF CONENT
		Elongation	
- 1 2 5		sninboM s'gnuoY	
GLASS FIBERS		Tensile Strength	V2TM C1666M-08(2015)
92. ALKALI-RESISTANT	1024	Density	PCI MNL-130 (2009)
		Гелдтр	
		Zirconia Content	
		Glass Fiber Content and Wall and Wall	W2TM C1229-94(2015)
		Weather Resistance	ASTM G152-13
		Humidified Deflection	ASTM C473-19
MATERIALS OR PRODUCT	ILEMS OF WORK (DPWH STANDARD SPECIFICATION)	TESTS TO BE PERFORMED	TEST METHOD MISS.



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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	POR SELECTION OF PERFORMED NAME OF STREET BE PERFORMED NAME OF STREET BE PERFORMED NAME OF STREET BE PERFORMED.	TEST METHOD IALRED A
171-18	ASTM D1	Gloss Test sonce Resistance	ASTM D523-14(2018)
	EG MTZA	Bending Test sqm1 anusereque I would	ASTM D522M-17
	DI MTSA	Hardness Test valened	ASTM D3363-20
95. POWDER COATING	1058, 1730	Cross Hatch Adhesion Test a plieneT	ASTM D3359-17
	EG MTEA	Chemical Resistance Test Application	ASTM D1308-02(2013)
567-17	24-hour ASTM D1	Impact Test Percention Dercer Test	ASTM D2794-93(2019)
562-17	ASTM DA	Salt Spray Corrosion Test	ASTM B117-19
575-20	EG MTZA	Tension Strength Test	
	ASTM DZ	Tensile Modulus	
96. SEALINGS AND GASKETS	1058, 1602	Elongation diposite sliggs T	ASTM D412-16
31-S	1038, 1002 AG MT2A	Abrasion Resistance	Propose and a second contract to the second c
		Resilience diagonal 359T	9. ELASTOMER (FOAM- FILLED FENDER)
152-09/2019)	MCLMT2A	Compression Set	
30-16	ASTM D1	Durometer Hardness	ASTM D2240-15e1
		Tensile Strength	ACTM DA12 16
97. FENDER – ELASTOMER (EXTRUDED, MOLDED,	1403	Elongation	ASTM D412-16
PNEUMATIC AND HYDRO-	ASTM DE	Tear Strength Wolf 8511,0511	ASTM D624-00(2020)
i italiania)		Water Absorption	ASTM D471-16a
		Heat Resistance	ASTM D1667-17

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81-1711G MT2A	Ozone Resistance Sons Sanct	1 ye 13 451	F. 473.62	
(610S)E0-6SSIG MT2A	Low Temperature Impact Resistance	798712 19		
CI-79310 MT2A	Density tast Test Density	1 5 gov (4	<u>e</u> .	
61-2140 MT2A/02-272E0 MT2A	Tensile strength	* 8 22	les ,	
81-S140 MT2A\0S-272E0 MT2A	(ejtemiju) noijegnol		3. FENDER - FOAM CORE	
CI-CAAID MT2A	Water absorption percent volume after 24-hour exposure	1403	(FORM-FILLED FENDER)	
71-79910 MT2A	25 percent compressive set	10%	· .	
0S-272EQ MT2A	50 percent compressive set			
1921-045CD MT2A	Shore A hardness			
91-21+0 MT2A	Tensile strength		9. ELASTOMER (FOAM-	
91-2140 MT2A	Elongation (Ultimate)	2071		
£1-0740 MT2A	Tear Strength	1403	FILLED FENDER)	
(610S)e0-S201G MT2A	Flex life (Ross)			
91-0£91G MT2A	Abrasion resistance (NBS)	00 _0	460-5 <i>a</i> me	
TO BE TOWN BUILDING	Point Point	a vällu ita		
ASTA D5329-20 OS-6SEZO MTZA	Penetration	B.26, 900, 1018, 1023,	TMA 1432/ G3 1 113 TM 10F O	
0S-6SE20 MT2A	Flow	8741 '0741 '7141	O. JOINT FILLER/SEALANT	
	puog			



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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	ROADER TESTS TO BE PERFORMED AROUND BE PERFORMED BE PERFO	TEST METHOD AIR TAM
		Density team's equipment rigit	
		Tensile Strength	
		Water Absorption	
101. BACKER MATERIAL	1046, 1728	Compression Deflection Force	ASTM D5249-10(2016)
		Compression Recovery	
027/ISO 10545-7	STM CI	Heat Resistance	
3-6	150 1054	Maximum Shrinkage	
400 FRANCE CRATTINGO OF THE	C S PATTON	Tensile Strength	ASTM A27M-20 - AASHTO M 105-09
102. FRAMES, GRATINGS, COVERS, LADDER RUNGS	1720	Yield Point 8101	ASTM A36M-19
AND CORRUGATED METAL	ASTM C6	Elongation	AASHTO M 111M-19 ASTM A123M-17
103. CHAIN LINK FENCE FABRIC	B.20	Weight of Coating	AASHTO T65M-19 (ASTM A90M- 13(2018))/AASHTO T213M-19 (ASTM A428M-10(2019))
)27/ISO 10545-7	ASTM CI	Softening Point sons lates 9 notes id A	ASTM D36M-14(2020)
	ISO 1054	Abrasion Resistance - thr (daA) relliF	ASTM D2415-20
104. COAL TAR ENAMEL CORE	ED MTZA 1602	Fineness of Filler holiquoidA ratisW	ASTM D546-17
	ASTM C6	Specific Gravity Ponetales A Ispimento	ASTM D71-94(2019)
	ASTM C6-	Break Strength noitrange	AWWA C203-15

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	-	High-temperature Test	
		Low-temperature Test	
A TOWNS CONTRACTOR AND	w2.000	Impact Test	
		Peel Test	
		Abrasion Resistance - Glazed	ASTM C1027/ISO 10545-7
		Abrasion Resistance – through body	9-S+2-P
CERAMIC TILES	8101	Water Absorption	ASTA C373/ISO 10545-3
- V 2-20 V 1. V 1.	(* 2-m)	Chemical Resistance	WZLW C650/ISO 10545-13
WASTER TO STATE OF THE SERVICE THE SERVICE OF THE S		Break Strength	VSTM C648/ISO 10545-4
, 1958/19 (No. 19) 18 (NOR INSVERSION 1813/1818 (1821.)	, 1.53 kpl 1 1.40 cup	Stain Resistance	VSTM C1378/ISO 10545-14
	95 mm 35	Abrasion Resistance - Glazed	ASTM C1027/ISO 10545-7
WALL'S SET	Will 16	Abrasion Resistance – through body	9-S+2-0SI
SEAUITE TILES 1018	8101	Water Absorption	V2TM C373/ISO 10545-3
- Tille District Visit	- Tan D	Chemical Resistance	YZLW C020/ISO 10242-13
the state of the s	= in op	Break Strength	Y21M C648/ISO 10545-4
		Stain Resistance	ASTM C1378/150 10545-14



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107. AGGREGATE RAMMED COLUMN	808	Static Axial Compressive Load	D1143M - 20
		Dimension (digneral blery)	
	ASTRI CLE	Density nodsphof3	
		Melt Index paiding sending	
108. CHLORINATED POLYVINYL CHLORIDE	1002	Flexural Modulus	ASTM D2846M – 19a
(CPVC) PIPES		Tensile Strength	
		Slow Crack Growth Resistance	
		Hydrostatic Strength Test	
		Sulfur	
		Carbon	
109. SHEATHING -		Manganese	
CORRUGATED G.I. SHEET	1015	Phosphorus	ASTM A761M - 18
		Silicon	
		Yield Strength	
		Tensile Strength	

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A - A - GREGARE RANNED CT - GAN	302	Static Axial court	Elongation	DIT JEM	ξį.
		Private Ziou	Yield Strength	,	
02 - MEZƏA MTZA		tournity	Elongation		
		MG (17.49)	Bending	2	

QUALITY TESTS ON CONTRUCTION MATERIALS

ANNEX A

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SOIL AND SOIL AGGREGATES			
		Grading Test	AASHTO T 88-19
		Plasticity Test	AASHTO T 89-13 and T 90-16
1. EXCAVATED	B.18, 802, 803, 805,	Laboratory Compaction (Standard)	AASHTO T 180-18
MAIEKTALS	806, 1503, 1600, 1701, 1702, 1703	Field Density Test (FDT)	AASHTO T 191-14
		Organic Content	AASHTO T 267
		California Bearing Ratio (CBR)	AASHTO T 193-13 / ASTM D 1883-16
2. EMBANKMENT MATERIALS	804, 1601, 1704, 1705, 1710	Same as No. 1 above	1807 E
		Grading Test	AASHTO T 27-14(2018)/(ASTM C 136M-19) AASHTO T 11-05(2018)/ (ASTM C 117-17)
	B.18, B.20, B.21, B.26,	Bulk Specific Gravity	(3) act 2 MT2AN/(5) 0010 T OT OTA
	1001, 1002, 1018, 1021,	Absorption	AASHIO 84-13(201/)/(ASIN C 128-13)
2 ETNE ACCDECATES	1046, 1051, 1052, 1054,	Effect of Organic Impurities on Strength of Mortar	AASHTO T 71-08(2017) (ASTM C 87M-17)
	1111, 1206, 1300, 1402, 1406, 1407, 1602.	Soundness Test	AASHTO T 104-99(2016) (ASTM C 88M-18)
	1710, 1711, 1712, 1713,	Organic Impurities	AASHTO T 21M-15 (ASTM C 40M-20)
	1/16, 1/18, 1/20, 1/22, 1/24, 1/28	Unit Weight	AASHTO T 19M-14(2018)/ (ASTM C 29M-17a)
		Clay Lumps and Friable Particles	AASHTO T 112-00(2017) (ASTM C 142M-17)

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		Grading Test	ASTM C144-18
		Specific Gravity	t
		Silica Content	
4. SILICA SAND	1054	Soluble Salts (Sulfates, Chlorides, and Alkalies such as Na ₂ O, K ₂ O, CAO)	
	044 044000	Clay and Organic Matter	ASTM C146-94a(2014)
		Loss on Ignition	
		Moisture Content	
	R 18 R 20 R 21 R 26	Grading Test	AASHTO T 27-14(2018)/(ASTM C 136M-19) AASHTO T 11-05(2018)/ (ASTM C 117-17)
	807, 808, 900, 901,	Bulk Specific Gravity	AACLTO T OF 14/2010//ACTA C 127 15
	1001, 1002, 1046, 1051,	Absorption	AASHIO 1 85-14(2018)/ASIM C 127-13
5. COARSE AGGREGATES	1300, 1402, 1406, 1407,	Abrasion Test	AASHTO T 96-02(2019)/(ASTM C 131M-20)
	1712, 1713, 1716, 1718,	Soundness Test	AASHTO T 104-99(2016) (ASTM C 88M-18)
	1720, 1722, 1724, 1728	Unit Weight	AASHTO T 19M-14(2018)/ (ASTM C 29M- 17a)
		Grading Test	AASHTO T 27-14(2018) / T 11-05(2018) (ASTM C 117-17)
		Plasticity Test	AASHTO T 89-13(2017) and T 90-16
6, AGGREGATE SUBBASE		Abrasion Test	AASHTO T 96-02(2015) (ASTM C 131M-14)
COURSE MATERIALS	1/0/	Laboratory Compaction (Modified)	AASHTO T 180-18/ASTM D 1557-12e1
	Κ	California Bearing Ratio (CBR)	AASHTO T 193-13(2017) / ASTM D 1883-16
		Field Density Test (FDT)	AASHTO T 191-14(2018) / ASTM D 1556M- 15e1

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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD
7. AGGREGATE BASE COURSE MATERIALS	1708	Same as No. 6 above	
8. CRUSHED AGGREGATE		Same as No. 6 above	
BASE COURSE MATERIALS	1709	Fractured Face	ASTM D 5821-13(2017)
		Grading Test	ASTM D 6913M-17
		Plasticity Test	AASHTO T 89-13 and T 90-16 ASTM D 4318-17e1
9 FINE-GRAINED SOTI	R.19.807	Specific Gravity	AASHTO T 100-15(2019) / ASTM D854-14
		Hydrometer Analysis	AASHTO T 88-19
		Moisture Content Determination	AASHTO T 265-15(2019) / ASTM D2216-19
		Sand Equivalent Test	AASHTO T 176-17
		Moisture Content Determination	ASTM D 4959-16 AASHTO T 255-00(2017) (ASTM C566-19) AASHTO T 217-14(2018) AASHTO T 265-15(2019)
		Particle Size Analysis of Soils	AASHTO T 88-19
10. SOIL AND SOIL	B.19, 807, 808	Amount of Materials Finer than 75µm (No.200) sieve by Washing	AASHTO T 11-05(2018) (ASTM C117-17)
AGGKEGAIES		Plasticity Test	ASTM D 4318-17e1
		Shrinkage Limit of Soil	ASTM D4943-18
		Specific Gravity of Soil by Water Pycnometer	ASTM D854-14
		Laboratory Compaction Test / Moishure Density Relation	ASHTO T 99-18 / T 180-18 ASTM D698-12-2 / D1557-12-1

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	13. CONCRETE		CONCRETE AND OTHER MANUFACTURED PRODUCTS	COLUMN	12. RAMMED AGGREGATE		GRAVEL	11. CRUSHED STONE/ SLAG/										MATERIALS OR PRODUCT
1052, 1054, 1111, 1206,	807, 900, 901, 1001, 1002, 1018, 1049, 1051,	B.18, B.20, B.21, B.26,	MANUFACTURED PROD		m 808		90	55		-								ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL. III, 2019 EDITION)
			UCTS	Е	-		-			7	· .	10			_			WORK ECIFICATIONS, DITION)
Density (when Chemical Admixture is used)	Time of Setting	Slump		Bottom Stabilization Test	Modulus Test	Density (for crushed slag)	Fractured Face (for crushed gravel)	Abrasion Test	Grading Test	Abrasion Test	Specific Gravity and Absorption of Fine and Course Aggregates	Soundness Test (by use of sodium or magnesium sulfate)	Effect of Organic Impurities in Fine Aggregates on Strength of Mortar	Organic Impurities in Fine Aggregates for Concrete	Unit Weight of Aggregates	California Bearing Ratio	Density of Soil In-placed by Sand Cone Method	TESTS TO BE PERFORMED
AASHTO T 121M-19 (ASTM C138M-17a)	AASHTO T 197M-11 (ASTM C403M-16)	AASHTO T 119M-18 (ASTM C143M-15a)		7011101101	ASTM D1143M-20	AASHTO T 19M-14(2018) (ASTM C29M-17a)	ASTM D 5821-13(2017)	AASHTO T 96-02(2019) (ASTM C131M-20)	AASHTO T 27-14(2018) (ASTM C136M-19)	AASHTO T 96-02(2019) (ASTM C131M-20)	AASHTO T 84-13(2017) (ASTM C128-15) AASHTO T 85-14(2018) (ASTM C127-15)	AASHTO T 104-99(2016) (ASTM C88M-18)	AASHTO T 71-08(2017) (ASTM C87M-17)	AASHTO T 21M-15(2019) (ASTM C40M-20)	AASHTO T 19M-14(2018) (ASTM C29M-17a)	ASTM D1883-16	ASTM D1556M-15e1	TEST METHOD

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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL. III, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD
	1300, 1402, 1406, 1407, 1712, 1713, 1716, 1718,	Bleeding (when Air-entraining admixture is used)	AASHTO T 158-11(2019) (ASTM C 232M-14)(2019)
	1720, 1722, 1724, 1728	Weight per cubic meter	AASHTO T 121M-19 (ASTM C138M-17a)
		Air Content	AASHTO T 152-19
		Yield	
		Compressive Strength Test (Concrete Cylinders and Cores)	AASHTO T 22M-20 (ASTM C39M-20)
		Flexural Strength Test (Third-Point Loading)	AASHTO T 97-18 (ASTM C78M-18)
		Flexural Strength Test (Center-Point Loading)	AASHTO T 177-17 (ASTM C293M-16)
		Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	AASHTO T 24M-15(2019) (ASTM C42M-20)
		Splitting Tensile Strength of Cylindrical Concrete Specimens Test	AASHTO T 198-15(2019) (ASTM C496M-17)
		Length Change of Hardened Hydraulic Cement Mortar and Concrete	AASHTO T 160-17 (ASTM C157M-17)
		Length of Drilled Concrete Core/ Thickness of Specimen Test	AASHTO T 148-15(2019)/ ASTM C174M-17
	B.18, B.20, B.21, B.26,	Specific Gravity/Density	AASHTO T 133-19 (ASTM C188-17)
	1002, 1018, 1021, 1022,	Fineness (By Air Permeability)	AASHTO T 153-20 (ASTM C204-18)
14. PORTLAND CEMENT Physical Tests	1023, 1024, 1025, 1026, 1027, 1028, 1029, 1046.	Normal Consistency	AASHTO T 129-14(2018) (ASTM C187-16)
	1049, 1051, 1052, 1054,	Time of Setting: By Vicat Needle	AASHTO T 131-20 (ASTM C191-19)
	1406, 1407, 1602,	Time of Setting: By Gilmore Needles	AASHTO T 154-18 (ASTM C266-18)



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	17 CHRING COMPONING		16. ADMIXTURE				15. WATER FOR CONCRETING				Circumoti Com	Chemical Tests				1 20		MATERIALS OR PRODUCT
1052, 1111, 1300, 1402,	B.21, 900, 901, 1050,	1716, 1724, 1728	1054, 1111, 1300, 1402, 1406, 1407, 1712, 1713,	B.21, 900, 1049, 1052,	1713, 1716, 1718, 1720, 1722, 1724, 1728	1402, 1406, 1407, 1602, 1710, 1711, 1712,	1049, 1050, 1051, 1052, 1054, 1111, 1206, 1300,	1002, 1018, 1021, 1022, 1026, 1027, 1029, 1046,	B.18, B.20, B.21, B.26, 807, 900, 901, 1001.							1722, 1724, 1728	1710, 1711, 1712, 1713, 1716, 1717, 1718, 1720	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)
Test on Appearance on Concrete Surface	Specific Gravity	Total Solid (Residue by Oven Drying), % by mass	Specific Gravity	pH Test	Chloride Content	Sulfate Content by Gravimetric Method	Mortar Strength	Percent Total Solids	pH Test	Loss on Ignition	Insoluble Residue	Magnesium Oxide	Sulfur Trioxide	Air Content of Cement Mortar	Flow of Cement Mortar (other than Portland Cement)	Mortar Test/Compressive Strength	Autoclave Expansion	TESTS TO BE PERFORMED
AASHTO M 148-05/ASTM C309-19	AASHTO T 155-13(2017) / ASTM C156-17		ASTM C260M-10a(2016)	ASTM C494M-19	U U		ASTM C1602M-18 ASTM D512-12				AASHIO 103-20 (ASHI C114-10)	AASUTO T 10E 20 (ASTM C114 10)		AASHTO T 137-12(2020) (ASTM C 185-20)	ASTM C1437-15	AASHTO T 106M-18 (ASTM C109M-20a)	AASHTO T 107M-18 (ASTM C151M-18)	TEST METHOD

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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL. III, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD
	1406, 1407, 1712, 1713,	Character of Film	
	1/10, 1/22, 1/24, 1/28	Water Retention Test	
	1900 P	Drying Time	
		Liquid Membrane-Forming Compounds	
18. HYDRATED LIME		Grading	
רוואאולמו ובאנא	1018 1000 1007 1050	Specific Gravity	
	1714	Percentage Residue	ASTM C110-16e1
		Standard Consistency	
The state of the s		Calcium Oxide (CaO)	C P LL CO P RELIGION
Chemical Lests		Magnesium Oxide (MgO)	AS I'M (25-19
	*	Compressive Strength	
19, GROUI CUBES	1049	Density	
METALLIC MATERIALS			
20. REINFORCING STEEL BAR	000000000000000000000000000000000000000	Actual Unit Mass	
Physical Tests	900, 902, 1001,1046,	Variation in Mass	AASHTO M 31M-19 (ASTM A615-18e1
	1047, 1051, 1052, 1111, 1206, 1300,	Deformation Measurement	PNS 49:2002
	1402, 1406, 1407, 1712, 1716, 1718, 1720, 1722, 1724, 1728	Test for Tensile Properties Yield Point	AASHTO T 244-18 (ASTM A370-19e1)

NOTE: The calendar year indicated for the above standards is the current issue. The parties to construction contracts shall rely on the issue current at the time of bidding.

Tensile Strength



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		22. WIRE MESH	-					BAK	21. EPOXY COATED STEEL					CIGIIICAI TESO	Chamical Tarts			MATERIALS OR PRODUCT
902, 904,1727		B.26, 900, 902							EL 902									ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)
Tensile Strength	Elongation	Bend Test	Tensile Strength Test	Coating Thickness	Phosphorous Content	Fracture	Test for Bending Properties	Elongation	Yield Point	Properties Tensile Strength Test	Deformation Measurement	Variation in Mass	Actual Unit Mass	Phosphorous Content	Fracture	Test for Bending Properties	Elongation	TESTS TO BE PERFORMED
ASTM A931-18	-	AASHTO M 336M-18 ASTM A 1064M-18a		ASTM A775M-19 / ASTM A934M-19	ASTM A751-14a / ASTM E 350-18	ASTM E1820			AASHTO T 244-18 (ASTM A370-19e1)	AASHTO M 322M-10(2019) (ASTM A996M- 16)	ASTM A706M-16	AASHTO M 31M-19 (ASTM A615-18e1 PNS 49-2002		ASTM A751-14a / ASTM E 350-18	ASTM E1820			TEST METHOD

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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD
		Bend Test	AASHTO M 30-15(2019)
		Elongation	
		Breaking Strength	
		Ductility	
23, WIRE ROPE OR WIRE		Dimension and Construction	
CABLE		Coating Weight	
		Adherence	
		Continuity	
5		Uniformity	
	Bar Millou	Tensile Strength	ASTM A931-18
24. WIRE STRAND	902	Bend Test	AASHTO M 203M-20 / ASTM A416M-18
		Elongation	ASIM AIUGIM-ZU
25. PRESTRESSING REINFORCING STEEL			
	1	Tensile Strength	
a. High-Tensile Wire	904,1052,1300,1716,17	Yield Strength	ASTM A421M-15
		Elongation	
		Breaking Strength	
b. High-Tensile Wire Strand	904,1052,1300,1716,17	Yield Strength	ASTM A416M-18
	17	Elongation	
		Stress Relaxation Properties	ing front to state the



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e. Metal Deck	d. Rolled Steel Shapes - Wide Flange, W - S Shape, S - Channel, C - Structural Tee, WT - Angle, L - Pipe - Standard, PS - Pipe - Extra Strong, PE - Pipe - Double Extra, PD	c. Cold Formed Light Gage Shapes - Lip Cee, LC - Lip Zee, LZ - Rectangular Tubing, LR - Square Tubing, LS	b. Cold Formed Plate Shapes - Angle, BA - Channel, BC	26. STRUCTURAL STEEL / METAL a. Built-Up Shapes - Wide Flange, BW - Heavy Column, BH - Wide Flange Tee, BWT	MATERIALS OR PRODUCT
1033, 1047		1047			ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)
Tensile Strength	Same as No. 26 (a)	Same as No. 26 (a)	Same as No. 26 (a)	Tensile Strength Yield Strength Elongation Dimension	TESTS TO BE PERFORMED
ASTM A1008M-20	ASTM A6M-19 PNS 49:2020	ASTM A36M-19 ASTM A6M-19	ASTM A36M-19 ASTM A6M-19	ASTM A36M-19 ASTM A6M-19	TEST METHOD

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MATERIALS OR PRODUCT	ITEM (DPWH STAN	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL. III, 2019 EDITION)	ROPERTO SE TESTS TO BE PERFORMED	4ED	TEST METHOD
			Yield Strength		ASTM A653M-20
15 To			Elongation [29] Septemble Sport		
			Base Metal Thickness		
4 98 SUSD)			S langerings		ASTM A529M-19 ASTM A529M-19 ASTM A572M-15
f. Hot Rolled Structural Shapes		1047	Same as No. 26 (a)		ASTM A588M-19 ASTM A709M-15
			100 m 100 m 100 m		ASTM A913M-03 ASTM A992M-20
					ASTM A500M-20
o. Structural Tubing		1047	Same as No. 26 (a)		ASTM A618M-04(2015)
			Christiana, escario		ASTM AS13M-20a
8.75.80	4 1 1 2 1 A 1				ASTM A36M-19 ASTM A242M-13(2018)
# 100 A	A 171 24		The second secon		ASTM A283M-18
7.57.78	A LE SI	770	Same as No. 26 (a)		ASTM A514M-18e1 ASTM A529M-19
h. Steel Plates		TOT	2001 Ca 110. Ed (c)		ASTM A572M-18
	A STATE OF		145 CAS 1987 SAS 1987		ASTM A588M-19
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A STATE OF				ASTM A709M-15
S 1487-140 STIRL	Contractor.		States of the St		ASTM A1011M-18a
i. Steel Casting and Forgings	AMTCA	1047	Same as No. 26 (a)		ASTM A216M-18 ASTM A668M-20a
1	W. 150 M. V.				ASTM A307-14e1
i Bolte, Nuts and	V V V V V V		Hardness		4



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Flagpole Post	n. Stainless Steel	m. Turnbuckle	I. Headed Stud Andhors	k. Anchor Rods and Threaded Rods		4								Washers	MATERIALS OR PRODUCT
100 100 100 100 100 100 100 100 100 100	1047	1047	1047	1047					1008, 1047, 1403, 1406	B.16, B.20, B.21, 1007,					TTEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)
Yield Strength	Tensile Strength	Same as No. 26 (a)	Same as No. 26 (a)	Same as No. 26 (a)	Chemical Composition	Protrusion Tangential Diameter Values	Number of Protrusions	Compression Load	Inside and Outside Diameter	Dimension	Elongation	Yield Point	Axial Tension Test	Tensile Strength	TESTS TO BE PERFORMED
ASTM A554-16	ASTM A312M-19	ASTM F1145-05(2017) AASHTO M 269-96(2018)	ASTM A29M-20	ASTM A36M-19 ASTM A193M-20 ASTM A354-17e2 ASTM A449-14 ASTM A572M-18						ASTM F844-07a(2013)	ASTM F593-17	ASTM F436M-19 ASTM F959M-17a	ASTM A563-15	ASTM A449 - 14 ASTM A 194M-203	TEST METHOD



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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD
		Elongation dipursme warmen	
	RBA MITSA	Dimension (Length, Diameter, Thickness)	AD MAN STANDARD TOWNS AND THE
	9	Hardness Test	
	BSA MTZA DIA MISA	Mechanical Test: -Transverse/Longitudinal Tension Test -Flattening Test	aO BJ EX Janes Estate a
	State MTRA	Tolerance (Straightness, Ovality)	
		Heat Analysis	With the Residence of the State
		Weld Decay Test	AWACHORA:
		Grain Size Determination	克科·克 克
		Hydrostatic Test	
SOLVE I SELECT M. R.S.S.A.M.	N OTHERA Bright set	Dimension (Outside Diameter, Wall Thickness, Eccentricity, Toe-in and Special Sizes)	
		Tensile Strength	AASHTO M 36M-16(2020) (ASTM A760M-
		Flexural Modulus	AASHTO M 218-03(2020)
Surger Byros	30 PTEA	Hydrostatic Strength	AASHTO M 245-20 (ASTM A762M-19) AASHTO M 246-15(2019) (ASTM A742M-20)
	O A COM DA	Melt Index	AASHTO M 190-04(2017)
		Slow Crack Growth Resistance	ASTM A252M-19
10 Sul 8	AST M TZA	Color Dearn! Bos! bost told	ASTM A53M-20
	WELL DOWN	UV Stabilizer, HDB and HDS	
28, ANCHOR BOLTS	1054	Same as No. 26 (i)	

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		(PVC) SHEET PILES	33, POLYVINYL CHLORIDE					32 STEEL SHEET DILE		PILES	31. HEADED STUD EMBED ANCHORS	30, FLEX ANCHORS		29, METAL STUDS AND TRACK		MATERIALS OR PRODUCT
		1000	1717				recent energy and an en	1052 1300 1716 1717			1054	1054		1054		ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)
Thickness	Heat Deflection Temperature	Notched Izod Impact	Modulus of Elasticity	Flexural Strength	Tensile Strength	Dimension	Elongation	Yield Point	Tensile Strength		Same as No. 26 (I)	Same as No. 26 (I)	Zinc Coating Test	Yield Strength	Tensile Strength	TESTS TO BE PERFORMED
	ASTM D648-18	ASTM D256-10(2018)	7501 6706 47	ASTM D790-17	ASTM D638-14		ASTM A572M-18	AASHTO M 202M-19(ASTM A328M-			ASTM A 108-18	ASTM A29M-20 ASTM A108-18 ASTM B633-19		ASTM A1011M-18a		TEST METHOD

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		Weight	τ
		Moment of Inertia	4
M 183-20 /	370 mag 1	Section Modulus	
	47 I.S.	Ultimate Moment	1
		Allowable Moment	1
34, STEEL H-PILES	1052, 1300, 1716	Same as No. 26 (d)	ASTM A36M-19 ASTM A690M-13a(2018)
25 STEEL PLIE SHOES	1052, 1300, 1716	Same as No. 26 (I)	ASTM A148M-20e1
		Density	ASTM D4380-12
36. SHIRRY	1052, 1300, 1716	Viscosity	ASTM D6910-19
		Hď	1
EXPANSION JOINT MATERIALS	S		
		Recovery	
	ACTIVITY OF	Compression	
		Extrusion	AASHTO M 33M-20 (ASTM D994M-
—		Density	11(2016))
a. Bituminous Type		Asphalt Content	
		Water Absorption	
		Dimension (Width, Length, Thickness)	



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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL 111, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD
		Recovery	
		Compression	
b. Sponge Rubber and		Extrusion	AASHTO M 153-20 /
Cork	900	Density	ASTM D1752-18
		Expansion in Boiling Water	
		Boiling in Hydrochloric Acid	
c. Nonextruding and Resilient Bituminous Type	900	Same as No. 37-a above	ASTM D545-19 AASHTO M 213-01(2019) (ASTM D1751-18)
MISCELLANEOUS MATERIALS			
		Load-Bearing Concrete Hollow Blocks:	
		Thickness	
		Strength (compressive)	ASTM C90-16a
		Water Absorption	
38. CONCRETE HOLLOW		Density (oven-dry)	
LOUVERS	1046	Compression Test	ASTM C140M-20a
		Moisture Content and Water Absorption.	ASTM C426-16
		Non-load bearing Concrete Hollow Blocks and Louver Blocks:	
		Density (oven-dry)	
		Strength (compressive)	



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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD	
		Moisture-Content		
		Compression Test	ASTM C140M-20a	
	1021 21/4	Moisture Content and Water Absorption.	ASTM C426-16	
		Nominal Dry Bulk Density		
39, AUTOCLAVED	1046	Compressive Strength Test	ASTM C1693-11(2017)	
(AAC) BLOCKS		Average Drying Shrinkage / Moisture Content & Bulk Density Determination		
40, ADOBE BLOCKS	1046	Compressive Strength Test	ASTM C67M-20	8 3 6 6 6
		Initial Moisture Content		
		Basic Density		
	B.18, B.21, B.26, 807,	Tensile Test	AASHTO M 168-07(2020)	
41. TIMBER (PSDE) SI - REI		Compressive Test (Stress-Strain Relationship)	AASHTO M 133-12(2020)	
	1402, 1716, 1717, 1722	Shrinkage (Tangential, Radial and Differential)		
	ALU MIZA	Diffusion		
	W. C.	Thickness		
42. LUMBER	3 TO 1 TO 3	Shear Test	AASHTO M 168-07(2020)	
0-08(30)4	SIG MIZA	Moisture Content		
	CHICKER	Thickness (Ilvered of Programmer)	PNS ISO 12465:2017	
43. PLYWOOD BIOSTHEMO	1003, 1015	Shear Test.	PNS ISO 12466-2:2016	

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-	48. VARNISH			47. PAINT			46. PRESERVATIVE				45. GYPSUM BOARD		Omercia internalización		44. PLYBOARD			MATERIALS OR PRODUCT
	1032, 1051, 1722			B.21, B.26, 1032, 1051			B.21, B.26, 807, 903, 1051, 1401, 1722				1003, 1041		P.		1003			DDUCT (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)
Drying Time	Density/Specific Gravity	Fineness	Total Solids (by weight) Total Solids (by volume)	Total Pigment (Extraction)	Drying Time	Density/Specific Gravity		Water Absorption/Resistance	Permeance	Nail Pull Resistance	Deflection	Flexural strength	Dimension (Thickness, Width)	Moisture Content	Shear Test	Thickness	Moisture Content	TESTS TO BE PERFORMED
ASTM D1640M-14(2018)	ASTM D1475-13	ASTM D1210-05(2014)	ASTM D2369-10(2015)e1	ASTM D2371-19	ASTM D1640M-14(2018)	ASTM D1475-13	AASHTO M 133-12(2020)			ASIM C1396-17					PNS ISO 12465;2017			TEST METHOD

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ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL. III, 2019 EDITION)

MATERIALS OR PRODUCT

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TESTS TO BE PERFORMED	TEST METHOD
Total Pigment (Extraction)	ASTM D2371-19
Total Solids (by weight) Total Solids (by volume)	ASTM D2369 - 20
Homogeneity: Clarity and Cleanness Fineness	
Color	
Viscosíty	AC CONTRACTOR STREET AT ACT
Flash Point	
Film Thickness	
Gloss	
Elongation/Flexibility	ASTM D333 -01(2013)
Hardness	English Color Colorador
Abrasion Resistance	0
Print Test	
Household Chemical Resistance	
Outdoor Exposure	
Temperature-Change Resistance	
Salt Fog	THE STATE OF THE S
Water Fog Test	

1051, 1722

49. SHELLAC and LACQUER

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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD
		Water Immersion Test	
		Perspiration Resistance	
		Plasticizer Migration	,
		Chip Resistance	
		Design Thickness	
		Tensile Strength	
50. CARBON FIBER SHEET	1048	Modulus of Elasticity	ASTM D3039M-17
		Density	
		Pull-off Bond Strength to Concrete	ASTM D7234-19
		Viscosity	ASTM 1084-16
51. EPOXY ADHESIVE		Tensile Strength	ASTM D638-14
FOR CARBON FIBER	1048	Flexural Strength	ASTM D790M
		Compressive Strength	ASTM D695M
		Tensile Shear Bond to Steel	ASTM D1002-10(2019)
		Pull-off Bond Strength	ASTM D7234-19
		Design Thickness	T .
52. CARBON FIBER PLATE	1048	Width	1
		Tensile Strength	
		Modulus of Elasticity	ASTM D3039M-17

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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD
		Density	
		Carbon Fiber Weight	
		Pull-off Bond Strength	ASTM D7234-19
		Specific Gravity	ASTM D792-13
		Flexural Strength	ASTM D790-17
		Compressive Strength	ASTM D695/D3410
53. EPOXY ADHESIVE		Modulus of Elasticity	ASTM D695-15
FOR CARBON FIBER	1048	Tensile Strength	ASTM D638-14
		Tensile Shear Bond	ASTM D1002-10(2019)
		Bond Strength to: Carbon Fiber Plate and Concrete Carbon Fiber Plate and Steel	ASTM D7234-19
		Fiber Areal Weight	
		Design Thickness	4
TROUGHT TOTAL CALLS A CALL	10" MEAN	Density	1
54, GLASS FIBER SHEET	1048	Tensile Strength	ASTM D3039M-17
		Modulus of Elasticity	
		Pull-off Bond Strength	ASTM D7234-19
STANGER WIGHT OF THE	NOTHERA NOTHERA	Design Thickness	Section Company of Company
55, ARAMID FIBER SHEET	1048	Fiber Areal Weight	ASTM D3039M-17

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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL. II, 2019 EDITION)	TESTS TO BE PERFORMED Tensile Strength Modulus of Elasticity Tensile Capacity	TEST METHOD
		Pull-off Bond Strength	ASTM D7234-19
		Specific Gravity	ASTM D792-13
56. SEALANT FOR EPOXY		Compressive Strength	ASTM D695-15
INJECTION	1048	Flexural Strength	ASTM D790-17
		Tensile Shear Bond Strength	ASTM D1002-10(2019)
		Bond Strength to Concrete	ASTM D7234-19
57. POLYMER CEMENT	27	Compressive Strength	ASTM C39M-20
PATCHING MATERIAL	1048	Pull-Off Bond Strength to Concrete	ASTM D7234-19
		Bleeding Rate	ASTM C39M-20
		Strength Test	
58. CONCRETE PIPE	R 18 1718	Water Absorption Test	AASHTO T 280-14/2018) (ASTM CA97-19-)
		Dimension	AASHTO M 170-20 (ASTM C76-19b)
		External Load Crushing Strength	
		Dimension	
59. ALUMINUM PIPE	1718	Density	AASHTO M 196-16 (ASTM B745M-15) AASHTO M 219-92(2017) (ASTM B746M-16)
		Tensile Test	ASTM E8M-16ae1
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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDAR) VOL. III, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD
		Bend Test	SOCIETATION OF A STANDARD CONTRACTOR OF A STAN
		Dimension	DILLE VINE CONTROL OF THE STATE
		Density	
		Melt Index	AASHTO M 252-20
60. PI ASTIC PIPE	1718	Flexural Modulus	ASTM F714-13(2019)
		Tensile Strength	
		Slow Crack Growth Resistance	
		Hydrostatic Strength Test	
		Tensile Strength	
		Hardness	
		Breaking Load	ASTM A74-20
NUT ASSOCIATED SENSIT IN	OTHEAM	Machined Diameter	ASTM A48M-U3(2018) ASTM A47M-99(2018)e1
61. CAST IRON PIPE	1001	Chemical composition (phosphorous, sulfur, chromium, titanium, aluminum, lead, and carbon)	ASTM A536-84(2019)e1
		Dimension (for hub, spigot, barrel, grooves, water seal and trap)	
		Coating	
		Illtraviolet (UV) Radiation Stability	ASTM D4355M-14(2018)
62. ZINC COATED		Mass (Weight) of Coating	AASHTO M 36M-16(2020) [ASTM A760M-15(2020)]
(GALVANIZED) CORRUGATED	1719 TATES	Dimension	E

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							65. POROUS CONCRETE PIPE							PIPE	64. PERFORATED CONCOSTS		63. EXTRA STRENGTH AND STANDARD STRENGTH CLAY	MATERIALS OR PRODUCT
1719							1719							1719		1719		ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)
Dimension	Off-Center Hydrostatic Joint Test	Alkalinity of Concrete Mixture	Joint Shear Test	Gasket Lubricant Tests	Cylinder Strength	Manhole Step	Permeability	Hydrostatic	Absorption	Core Strength	Flat Slab Tops	Three-Edge-Bearing Test Method	Hydrostatic Test	Permeability	Dimension	Acid Resistance Test	Dimension	TESTS TO BE PERFORMED
ASTM C293M-16						AASHTO T 280-14(2018)	AASHTO M 176M-20 (ASTM C654-19)			J				AASHTO M 175M-05(2020)		ASTM C700-18		TEST METHOD

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DOT BOXX	PRODUCT	I NO POSTARA
TESTS TO BE PERFORMED	TEST METHOD	ЕТНОБ
Modulus of Rupture	SE Earlie	PARTOCALIOR RE
Dimension		
Pipe Stiffness		
Pipe Flattening	AASHTO M 25220	
Environmental Stress Cracking		
Brittleness		
Workmanship (Color, Opacity, Density)		
Dimension (Diameter, Thickness, Bell Wall Thickness)		
Pipe Flattening		
Pipe Impact Strength		
Pipe Stiffness		
Soiltight Joints	AASHTO M 304-11(2019)	19)

1719

POLYETHYLENE DRAINAGE

67, CORRUGATED

ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)

MATERIALS OR PRODUCT

66. BITUMINIZED-FIBER NON-PRESSURE SEWER

UNDERDRAINAGE PIPE

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Internal Sleeve Dimensions

Acetone Immersion

Heat Reversion

Perforations

Extrusion Quality: Watertight Joints

1719

(PVC) PROFILE WALL DRAIN PIPE 68. POLY (VINYL CHLORIDE)



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		72. CARBON STRUCTURAL		71. GRAY IRON CASTING						PERFORATED UNDERDRAIN PIPE	TO ACCURATION OF THE PARTY OF T	69. POLYPROPYLENE PIPE					
1001, 1047, 1052, 1054, 1300, 1403, 1716, 1720, 1722, 1724, 1725, 1729				1720						1719		1719					ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)
Chemical Composition	Elongation	Yield Strength	Tensile Strength	Chemical Analysis (Phosphorus and Sulfur)	Dimension	Reduction of Area	Elongation	Yield Point	Tensile Strength	Crushing Strength	Brittleness	Joining Systems	Environmental Stress Crack Resistance	Pipe Stiffness	Dimensions	Workmanship	TESTS TO BE PERFORMED
	ASTM A36M-19			AASHTO M 105-09(2018)/ASTM A74- 20/ASTM A48M-03(2016)/ASTM A27M- 20/ASTM A126-04(2019)						ASTM C508M-00(2015)	AASHTO M 330-20					TEST METHOD	

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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	ROSNER RETESTS TO BE PERFORMED	TEST METHOD
		Tensile Strength etenthologies and the strength etenthologies are strength etenthologies are strength etenthologies are strength etenthologies and the strength etenthologies are strength et	
		Yield Point Strengthey removed a	ACTIVA ANTONIA
73. CARBON STEEL CAST	1001, 1720	Elongation (Test offsets a 2	A01M AZ/ 77.20
	ACCIMINATION OF THE PERSON OF	Reduction in Area	1997年 1998年 4月日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日
	BO WIZA	Tensile Strength	
	SC Mices	Yield Strength	
		Elongation	
		Hardness	
		Chemical Composition	ACTA ACTO ON OHOUS
74. DUCTILE IRON	1002, 1724, 1729	Microstructure	
	11 2 2 2 E	Pressure Tightness	
	Ct-Micsa (symbological	Radiographic Soundness	
		Magnetic Particle Inspection Dimensions	
		Surface Finish	
0-1363	ACA COLOR	Dimension (mass, diameter, shape, length, straightness, and edge contour)	
TING THE CASE IN COLUMN TO SERVICE T	1710 1726	Tensile Strength	ASTM B98M-13(2019)
75. SILLCON BRONKE	ASTM ELS	Yield Strength	
	TA MITCA	Elongation Rethangence Sevenation	



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			78. STAINLESS STEEL					77. ALONGROP	77 Alimania				PLASIIC (FRP)	76. FIBER REINFORCED				MATERIALS OR PRODUCT
			1051					D.20, 1000, 1040, 1/19					1719					TIEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)
Chemical Composition	Hardness	Diameter/Thickness Determination	Elongation	Yield Strength	Tensile Strength	Chemical Composition by Chemical and Spectrochemical Test Methods	Exfoliation-Corrosion Resistance	Heat Treatment	Yield Strength	Elongation	Tensile Test	Water Absorption	Compression Test	Flexural Property	Tensile Property	Chemical Composition	Rockwell Hardness	TESTS TO BE PERFORMED
ASTM A751-14a	ASTM E140-12B(2019)e1		NO 111 NO 70-1961	ACTM ASSO 1001	L	B211M-19	STP 558-1974	ASTM B807M-20		ASTM B 557-15		ASTM D570-98(2018)	ASTM D695-15	ASTM D790-17	ASTM D2924-12(2017)/ASTM D638-14			TEST METHOD

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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD
	YO MIKA	Heat Treatment (Austinitic)	ASTM 4479M-20
25.50	VALW DV	Corrosion Test (Austinitic) To proceed the Corrosion Test (Austinitic) To proceed the Corrosion Test (Austinitic) To proceed the Corrosion Test (Austinitic)	27 (17 11 17
		Magnetic Permeability (Severn-Type Indicator)	T
79. SPHEROIDAL GRAPHITE	AND MIREA	Yield Strength and secretary	
CAST IRON a. Mooring Cleat	BA MISSA	Tensile Strength paratic at tilpasa	ASTM A27M-20
b. Mooring Post c. Mooring Bitt d. Mooring Bollard		Elongation	
	ACT NI TOA	Workmanship (color, opacity, density, and other physical properties)	
		Dimension despress states are	
SZIM-TRA	THE WILLIAM DATE	Impact Resistance waster are to a management of the same of the sa	ASTM D2241 = 15 ASTM D1785 = 15e118338 888 888 888 888
		Pipe Stiffness tenend gravement once?	ASTM D2665 - 14
80. PVC WEEPHOLES	DQ PITER	Extrusion: -Acetone Immersion -Heat Reversion	ASTM F679 -16 ASTM D2729 - 17 ASTM D3034-16
25 No. 12		Soil Tightness Islas Programmers	
		Water Tightness	
		Stub Compression Test	
Clark Clark		Tensile Strength Test argumentable marks	ASTM D638-14
MATTRESSES	1714	Elongation redisequing dentity	
		Hardness san team	ASTM D2240-15e1



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		83. NET BAGS						(FABRIC / MAT)	82. FILTER MATERIALS										MATERIALS OR PRODUCT
		1714						Part of the second	1405 1714										ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)
Mesh Size	Mesh Composition	Width, Height	Elongation	Tensile Strength	Ultraviolet (UV) Radiation Stability	Tear Strength	Puncture Resistance	Seam Breaking Strength	Grab Failure Strain	Grab Tensile Strength	Water Permittivity	Apparent Opening Size	Punch Strength	Weight of Coating	Brittleness Temperature	Resistance to Abrasion	Modulus of Elasticity	Specific Gravity	TESTS TO BE PERFORMED
1	1	1	1	ı	ASTM D4355M-14(2018)	ASTM D4533M-15	ASTM D6241-14		ASTM D4632M-15a		ASTM D4491M-20	ASTM D4751-20		ASTM A975-11(2016)	ASTM D746-14	1	ASTM D412-16	ASTM D792-13	TEST METHOD

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84. NET YARN

85. ROPE

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ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD
	Capacity	
W. T.	Tensile Strength	ASTM D7179-18
1714	Elongation	
	Diameter	1
1714	Tensile Strength	1
	Elongation	
	Furol Viscosity	241704212
	Distillation	ASTM D41M - 11(2016)
	Penetration	
	Matter Soluble in Trichloroethylene	
	Viscosity	
	Volume and Weight Of Solids	
1016	Elongation	
	Tensile Strength	SE SEPTIMENT RUDE PRINCESS
	Permeance	ASTM D6083M 18
	Water Swelling	
	Adhesion	
	Fungi Resistance	TYLING & SACKLUS
	Tear Resitance	

Waterproofing Liquid Waterproofing

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86. WATERPROOFING
a. Cement-base

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	89. UNDERLAYMENT				88. ASPHALT ROOF SHINGLES					TALENTALS	FIREPROOFING	87. SPRAYED CEMENTITIOUS						MATERIALS OR PRODUCT
	1056			1056							1055							CT (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)
Breaking Strength	Tear Strength	Granule Adhesion	Fire Resistance	Wind Resistance	Behavior on heating: Loss of volatile matter Sliding of granular surfacing	Mold Resistance	Non-combustibility	Smoke Development	Flame Spread	Bond Impact	Deflection	Corrosion	Air Erosion, max.	Compression, 10% Deformation	Bond Strength, min.	Dry Density, Minimum Average	Low Temperature Flexibility	TESTS TO BE PERFORMED
ASTM D4869M ~ 16a ASTM D6757M ~ 18	ASTM D226M - 17	ASTM D4977M ~ 20	ASTM E108 - 20a	ASTM D3161M - 20	ASTM D228M 19a	ASTM G21-15	ASTM E136-19A	AS IM E84-20	A Company of the Comp	ASTM E760M-92(2020)	ASTM E759M-92(2020)	ASTM E937M-92(2020)	ASTM E859M-92(2020)	ASTM E761M-92(2020)	ASTM E736M-19	ASTM E605M-19		TEST METHOD

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	ITEMS OF WORK	TESTS TO BE PERFORMED	TEST	TEST METHOD
MAIERIALS ON PRODUCT	VOL III, 2019 EDITION)			
J. J. J.		Pliability		
		Loss on Heating		
59 04 5015		Liquid Water Transmission		
		Dimensional Stability		
		Roll Width		
18.00		Roll Area		
100 M 2013		Behavior on Heating		
		Saturation Percent of Felt		
		Uniformity		
		Workability	ACTM D4586M - 07(2018)	2018)
90, ASPHALT ROOF CEMENT	1056	Pliability		
		Behavior at Given Temperature		
		Tension Test	ASTM C1230-96(2015)	(5)
		Compressive Strength	ASTM C109M-20b	
		Flexural Strength	ASTM C947-03(2016)	5)
91. GLASS FIBER	1054	Hardness	ASTM D2583-13a/A	ASTM D2583-13a/ASTM D785-08(2015)
(GFRC) COMPOSITES		Impact Resistance	ASTM D256-10(2018)	8)
18	BA M ZA	Burning Programme Control	ASTM E84-20	DMISION VAD
		Thermal Expansion	ASTM D696-16	

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(GALVANIZING)	94. ZINC COATTING	93. POLYMER CURING ADMIXTURE							92. ALKALI-RESISTANT GLASS FIBERS								MATERIALS OR PRODUCT	
1058, 1730					1054							1054						ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)
Zinc Coating Test	Alkali Resistance	Ultraviolet Resistance	Minimum Film-Formation Temperature	Appearance	pH	Solids	Polymer Type	Compound Type	Elongation	Young's Modulus	Tensile Strength	Density	Length	Zirconia Content	Glass Fiber Content	Weather Resistance	Humidified Deflection	TESTS TO BE PERFORMED
ASTM B6-18				PCI MNL-130 (2019)							ASTM C1666M-08(2015)	PCI MNI-130 (2009)			ASTM C1229-94(2015)	ASTM G152-13	ASTM C473-19	TEST METHOD

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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL. III, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD
		Gloss Test	ASTM D523-14(2018)
	STEM OF	Bending Test	ASTM D522M-17
	10 1115	Hardness Test	ASTM D3363-20
OF DOWNER COATING	1058, 1730	Cross Hatch Adhesion Test	ASTM D3359-17
	A21124	Chemical Resistance Test	ASTM D1308-02(2013)
		Impact Test	ASTM D2794-93(2019)
	ASTU DA	Salt Spray Corrosion Test	ASTM B117-19
\$2-50	KOMEA	Tension Strength Test	
	OTO MILY	Tensile Modulus	
	4218 D4	Elongation	ASTM D412-16
96. SEALINGS AND GASKETS	1058, 1602	Abrasion Resistance	BB STEELONER LEDVO
		Resilience "To work and The State of the Sta	
	12 13 CA	Compression Set	
30	TOTAL	Durometer Hardness	ASTM D2240-15e1
		Tensile Strength	ASTM D412-16
97. FENDER – ELASTOMER		Elongation	
(EXIRUDED, MOLDED, PNEUMATIC AND HYDRO-	2 2 M TEA 1403	Tear Strength	ASTM D624-00(2020)
PNEUMATIC)		Water Absorption	ASTM D471-16a
		Heat Resistance	ASTM D1667-17



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		100, JOINT FILLER/SEALANT					99. ELASTOMER (FOAM-					(FOAM-FILLED FENDER)	98. FENDER - FOAM CORE					MATERIALS OR PRODUCT
	1/12, 1720, 1728	B.26, 900, 1018, 1023,					1403					30 m di	1403					ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)
Bond	Flow	Penetration	Pour Point	Abrasion resistance (NBS)	Flex life (Ross)	Tear Strength	Elongation (Ultimate)	Tensile strength	Shore A hardness	50 percent compressive set	25 percent compressive set	Water absorption percent volume after 24-hour exposure	Elongation (uitimate)	Tensile strength	Density	Low Temperature Impact Resistance	Ozone Resistance	TESTS TO BE PERFORMED
	AS IM D5329-20			ASTM D1630-16	ASTM D1052-09(2019)	ASTM D470-13	ASTM D412-16	ASTM D412-16	ASTM D2240-15e1	ASTM D3575-20	ASTM D1667-17	ASTM D1667-17	ASTM D3575-20/ASTM D412-16	ASTM D3575-20/ASTM D412-16	ASTM D1667-17	ASTM D1229-03(2019)	ASTM D1171-18	TEST METHOD

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MATERIALS OR PRODUCT	(DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)	TESTS TO BE PERFORMED	TEST	TEST METHOD
		Density Jean and Density		
		Tensile Strength		
		Water Absorption		
ANA BACKED MATERIAL	1046, 1728	Compression Deflection Force	ASTM D5249-10(2016)	(9
בי ב		Compression Recovery		
		Heat Resistance		
		Maximum Shrinkage		
	A MATTER	Tensile Strength	ASTM A27M-20 AASHTO M 105-09	
102. FRAMES, GRATINGS,	1720	Yield Point	ASTM A36M-19	
AND CORRUGATED METAL		Flondation	ASTM A123M-17	
103. CHAIN LINK FENCE	B.20	Weight of Coating	AASHTO T65M-19 (ASTM A90M- 13(2018))/AASHTO T213M-19 (ASTM A428M-10(2019))	ASTM A90M- T213M-19 (ASTM
FABRAC	N STACE	Softening Point	ASTM D36M-14(2020)	(0)
	100 100	Filler (Ash)	ASTM D2415-20	
104 COAL TAR ENAMEL	1602	Fineness of Filler	ASTM D546-17	
NEO 10242-13	RED MITCA	Specific Gravity	ASTM D71-94(2019)	()
	A. L.		AMMA C203-15	

NOTE: The calendar year indicated for the above standards is the current issue. The parties to construction contracts shall rely on the issue current at the time of bidding.



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NOTE: The calendar year indicated			106. GRANITE TILES				· V		105. CERAMIC TILES							MATERIALS OR PRODUCT
for the above standards is the current is			1018						1018							UCT (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)
NOTE: The calendar year indicated for the above standards is the current issue. The parties to construction contracts shall rely on the issue current at the time of hidding	Break Strength	Chemical Resistance	Water Absorption	Abrasion Resistance – through body	Abrasion Resistance - Glazed	Stain Resistance	Break Strength	Chemical Resistance	Water Absorption	Abrasion Resistance - through body	Abrasion Resistance - Glazed	Peel Test	Impact Test	Low-temperature Test	High-temperature Test	TESTS TO BE PERFORMED
ASTM C1378/ISO 10545-14	ASTM C648/ISO 10545-4	ASTM C650/ISO 10545-13	ASTM C373/ISO 10545-3	ISO 10545-6	ASTM C1027/ISO 10545-7	ASTM C1378/ISO 10545-14	ASTM C648/ISO 10545-4	ASTM C650/ISO 10545-13	ASTM C373/ISO 10545-3	ISO 10545-6	ASTM C1027/ISO 10545-7					TEST METHOD



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MATERIALS OR PRODUCT	ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL 111, 2019 EDITION)	TESTS TO BE PERFORMED	TEST METHOD
107. AGGREGATE RAMMED COLUMN	808	Static Axial Compressive Load	D1143M - 20
		Dimension	
	60 NOT 40	Density	
		Melt Index	
108. CHLORINATED POLYVINYL CHLORIDE	1002	Flexural Modulus	ASTM D2846M - 19a
(CPVC) PIPES		Tensile Strength	
		Slow Crack Growth Resistance	
		Hydrostatic Strength Test	
		Sulfur	
		Carbon	
109. SHEATHING -		Manganese	
CORRUGATED G.I.	1015	Phosphorus	ASTM A761M - 18
		Silicon	
		Yield Strength	
		Tensile Strength	

NOTE: The calendar year indicated for the above standards is the current issue. The parties to construction contracts shall rely on the issue current at the time of bidding.



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				MATERIALS OR PRODUCT
				ITEMS OF WORK (DPWH STANDARD SPECIFICATIONS, VOL III, 2019 EDITION)
Bending	Elongation	Yield Strength	Elongation	TESTS TO BE PERFORMED
	ASTM A653M - 20			TEST METHOD



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Description OTHEAS	AASHTO	ASTM	Other
SOILS AND STABILIZATION	inst, Plastic Limit, a	3 hupt3 not 8xo18 4442 8	M teal Instanct
Standard Method of Test for Particle Size Analysis of Soils	Т 88-19	a sa Large a	1150
Standard Method of Test for Determining the Liquid Limit of Soils	T 89-13 (2017)	en _{er} test	
Standard Method of Test for Determining the Plastic Limit and Plasticity Index of Soils	T 90-16	Herita (C. C. C	
Standard Method of Test for Moisture-Density Relations of Soils Using a 4.54 kg (10 lb) Rammer and a 457 mm (18 in) Drop	180-18	gertigt granten Lind verbignigt	
Standard Method of Test for Density of Soil In-Place by the Sand-Cone Method	T 191-14 (2018)	D1556M-15e1	
Standard Method of Test for Determination of Organic Content in Soils by Loss on Ignition	T 267-86 (2018)	[,(7')=" , 5,1' ,	
Standard Method of Test for The California Bearing Ratio	T 193-13 (2017)	D1883-16	4 15-3-3-3-3
Standard Method of Test for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	T 96-02 (2015)	C131M-14	the second
Standard Method of Test for Moisture-Density Relations of Soils Using a 2.5-kg (5.5-lb) Rammer and a 305-mm (12-in.) Drop	T 99-18	My at Try with the	The second second
Standard Test Method for Water-Soluble Sulfate in Soil	FVV to except to	C1580-15	A CONTRACTOR OF THE STATE OF TH
Standard Test Method for Mechanical Cone Penetration Testing of Soils	genst a colone of	D3441-16	enger mal
Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft 3 (2,700 kN-m/m 3))	Andrews and the second	D1557-12e1	Africa Constitution
Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	Logan and	D6913M-17	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



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Description	AASHTO	ASTM	Other
Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils		D4318-17e1	
Standard Method of Test for Grain — Size Analysis for Granular Soil Materials	T 311-00 (2019)		
Standard Method of Test for Laboratory Determination of Moisture Content of Soils	T 265-15 (2019)	32	
Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass		D2216-19	
Standard Method of Test for One – Point Method for Determining Maximum Dry Density and Optimum Moisture	T 272-18		
Standard Method of Test for Specific Gravity of Soils	T 100-15 (2019)		
Standard Test Methods for Specific Gravity of Soil Solids by Water Pycnometer		D854-14	
Standard Method of Test for Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	T 176-17	i de la companya de l	
Standard Method of Test for Determination of Water Content of Soil by Direct Heating		D4959-16	
Standard Method of Test for Total Evaporable Moisture Content of Aggregate by Drying	T 255-00 (2017)	C566-19	
Standard Method of Test for Determination of Moisture n Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester	T 217-14 (2018)		× ×
Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-of/ft³ (600 kN-m/m³))		D698-12e2	



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Description CT PEACE	AASHTO	ASTM	Other
Standard Method of Test for Shrinkage Factors of Cohesive Soils by the Water Submersion Method	y y = 10 ² -	D4943-18	
Standard Test Method for Standard Penetration Test (SPT) and Split -Barrel Sampling of Soils		D1586M-18	
Standard Test Method for Water-Soluble Sulfate in Soil	ga, oo ya Agaaliya	C1580-15	AJ AND ST
AGGREGATES	te for Masonry Mor	spend for Aggrega	Standard Specific
Standard Method of Test for Sieve Analysis of Fine and Coarse Aggregates	T 27-14 (2018)	C136M-19	
Standard Method of Test for Materials Finer Than 75-micro m (No. 200) Sieve in Mineral Aggregates by Washing	T 11-05 (2018)	C117-17	
Standard Test Method for Relative Density (Specific Gravity) and Absorption of Fine Aggregate	T 84-13 (2017)	C128-15	
Standard Method of Test for Effect of Organic Impurities in Fine Aggregate on Strength of Mortar	T 71-08 (2017)	C87M-17	
Standard Method of Test for Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	T 104-99 (2016)	C88M-18	
Standard Method of Test for Organic Impurities in Fine Aggregates for Concrete	T 21M/T 21-15 (2019)	C40M-20	
Standard Method of Test for Bulk Density ("Unit Weight) and Voids in Aggregates	T 19M-14 (2018)	C29M-17a	1 1 1000
Standard Test Method for Clay Lumps and Friable Particles in Aggregates	T 112-00 (2017)	C142M-17	
Standard Test Method for Relative Density (Specific Gravity) and Absorption of Coarse Aggregate	T 85-14 (2018)	C127-15	
Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	T 96-02 (2019)	C131M-20	
Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate		D5821- 13(2017)) - 1 - 1



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Description	AASHTO	ASTM	Other
Standard Specification for Concrete Aggregates		C33M-18	
Standard Specification for Lightweight Aggregates for Structura Concrete		C330M-17a	
Standard Specification for Materials for Soil-Aggregate Subbase, Base, and Surface Courses		D1241-15	7 10
Standard Test Methods for Deep Foundations Under Static Axial Compressive Load		D1143M-07 (2013)e1	
Standard Specification for Aggregate for Masonry Mortar		C144-18	
Standard Test Methods for Chemical Analysis of Glass Sand		C146-94a (2014)	
Standard Test Methods for Deep Foundation Elements Under Static Axial Compressive Load		D1143M - 20	1 1 - 1
CEMENT EL-MET M	cresc) virginal evi	Marca for Relat	Pal Insuns?
Standard Method of Test for Density of Hydraulic Cement	T 133-19	C188-17	
Standard Method of Test for Fineness of Hydraulic Cement by Air Permeability Apparatus	T 153-20	C204-18	
Standard Method of Test for Amount of Water Required for Normal Consistency of Hydraulic Cement Paste	T 129-14(2018)	C187-16	
Standard Method of Test for Time of Setting of Hydraulic Cement by Vicat Needle	T 131-20	C191-19	
Standard Method of Test for Time of Setting of Hydraulic Cement Paste by Gillmore Needles	T 154-18	C266-18	
Standard Method of Test for Autoclave Expansion of Portland Cement	T 107M-18	C151M-18	22
Standard Method of Test for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)	T 106M-18	C109M-20a	×
Standard Test Method for Flow of Hydraulic Cement Mortar		C1437-15	



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Description OTHEAM	AASHTO	ASTM	Other
Standard Method of Test for Air Content of Hydraulic Cement Mortar	T 137-12(2020)	C185-20	o galanda Sangara
Standard Test Methods for Chemical Analysis of Hydraulic Cement	T 105-20	C114-18	1 2 7 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Standard Practice for Use of Apparatus for the Determination of Length Change of Hardened Cement Paste, Mortar, and Concrete		C490M-17	
Standard Test Methods for Fineness of Hydraulic Cement by the 45-µm (No. 325) Sieve		C430-17	
Standard Specification for Portland Cement	M 85-20	C150M-20	
Standard Specification for Blended Hydraulic Cements	M 240M-20	C595M-20	
Standard Specification for Masonry Cement		C91M-18	the state of the
Standard Test Method for Potential Expansion of Portland-Cement Mortars Exposed to Sulfate		C452-19e1	
Standard Test Method for Length Change of Hydraulic- Cement Mortars Exposed to a Sulfate Solution		C1012M-18b	
Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink)		C1107M-20	
CONCRETE, WATER, ADMIXTURES AND CURING COMPOUND	TOTAL TO STEEL SEE	Mass Concrete	VIS TIDENTYEE
Standard Test Method for Slump of Hydraulic Cement Concrete	T 119M-18	C143M-15a	100 mg 10 mg 1 mg
Standard Test Method for Time of Setting of Concrete Mixtures by Penetration Resistance	T 197M-11 (2019)	C403M-16	
Standard Method of Test for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete	T 121M-19	C138M-17a	A Table of
Standard Test Method for Bleeding of Concrete	T 158-11 (2019)	C232M-14 (2019)	
Standard Method of Test for Air Content of Freshly Mixed Concrete by the Pressure Method	T 152-19	at the Property of	5.15



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Description	AASHTO	ASTM	Other
Standard Method of Test for Compressive Strength of Cylindrical Concrete Specimens	T 22M-20	C39M-20	
Standard Method of Test for Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	T 97-18	C78M - 18	2 to " = -
Standard Method of Test for Flexural Strength of Concrete (Using Simple Beam with Center-Point Loading)	T 177-17	C293M-16	
Standard Method of Test for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	T 24M-15 (2019)	C42M-20	
Standard Test Method for Splitting Tensile Strength of Cylindrical Concrete Specimens	T 198-15 (2019)	C496M-17	
Standard Test Method for Length Change of Hardened Hydraulic-Cement Mortar and Concrete	T 160-17	C157M - 17	7.4 31.
Standard Method of Test for Measuring Length of Drilled Concrete Core	T 148-15 (2019)		Par and the second
Standard Method of Test for Making and Curing Concrete Test Specimens in the Field	T 23-18	C31M-19a	
Standard Practice for Sampling Freshly Mixed Concrete		C172M-17	
Standard Test Method for Measuring Thickness of Concrete Elements Using Drilled Concrete Cores		C174M-17	V. vo
Standard Practice for Selecting Proportions for Normal, Heavyweight and Mass Concrete	, 5		ACI 211.1- 91(2009)
Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete	1	C1602M-18	
Standard Test Methods for Chloride Ion in Water	o o o o o o o o	D 512-12	
Standard Test Method of Measurement of Solids in Water		C1603-16	
tandard Specification for Chemical Admixtures for Concrete	-1 to 13747, 11 to	C494M-19	
tandard Specification for Chemical Admixtures for Concrete	al _i t _a e e e	C494M - 19	= <u>11</u> //
tandard Specification for Air-Entraining Admixtures for oncrete		C260M-10a (2016)	61 A.L. 3 - 273



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Description OTHEAA	AASHTO	ASTM	Other
Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete	gradie to der news, is. of larger, il 1992 had	C618-19	
Standard Method of Test for Water Retention by Liquid Membrane-Forming Curing Compounds for Concrete	T 155-13(2017)		hear hear
Standard Test Method for Water Loss (from a Mortar Specimen) Through Liquid Membrane-Forming Curing Compounds for Concrete	de la men y maj	C156-17	
Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete	M 148-05	C309-19	por est de la
Standard Test Methods for Chemical Analysis of Limestone, Quicklime, and Hydrated Lime	na behalo to x mereko da.	C25-19	
Standard Test Methods for Physical Testing of Quicklime, Hydrated Lime, and Limestone	MeW by seriviciano arsunot no larga	C110-16e1	
REINFORCING STEEL MATERIALS	oR entWilealS bed	ation for Zinc-Contehnal	Mesons brokenste France Markers
Standard Specification for Deformed and Plain Carbon and Low Alloy-Steel Bars for Concrete Reinforcement	M 31M-19	A615M-18e1	e and irreduced
Steel Bars for Concrete Reinforcement - Specification			PNS 49:2002
Standard Method of Test for Tension Testing of Metallic Materials	T 68M-09	E8M-16ae1	
Standard Method of Test for Mechanical Testing of Steel Products	T 244-18	A370-19e1	
Standard Specification for Welded Deformed Steel Bar Mats for Concrete Reinforcement	M 54M-19	A184M-19	7710000
Standard Specification for Rail-Steel and Axle-Steel Deformed Bars for Concrete Reinforcement	M 322M-10 (2019)	A996M-16	15.00.100.000
Standard Specification for Corrosion-Resistant Coated Dowel Bars	M 254-06 (2019)	Marin Tarras 4 A	Carry out of a
Standard Test Method for Measurement of Fracture Toughness	17%	E1820 - 20e1	
Standard Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products	Clural freed	A751-14a	Page Ship Lind Ship



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Description	AASHTO	ASTM	Other
Standard Test Methods for Chemical Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron		E350 - 18	
Standard Specification for Deformed and Plain Low-Alloy Steel Bars for Concrete Reinforcement		A706M-16	2
Standard Specification for Epoxy-Coated Steel Reinforcing Bars	ata - To To you	A775M-19	
Standard Specification for Epoxy-Coated Prefabricated Steel Reinforcing Bars		A934M -19	
Standard Specification for Steel Wire and Welded Wire, Plain and Deformed, for Concrete Reinforcement	M 336M-18		
Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete	Tr	A1064M-18a	
Standard Specification for Zinc-Coated Steel Wire Rope and Fittings for Highway Guardrail	M 30-15 (2019)		= = =
Standard Specification for Metallic-Coated Steel Wire Rope and Fittings for Highway Guardrail		A741-11 (2016)	
Standard Test Method for Tension Testing of Wire Ropes and Strand	and a stronger for a second sequence	A931-18	
Standard Specification for Uncoated Stress-Relieved Steel Wire for Prestressed Concrete	M 204M-19	A421M-15	
Standard Specification for Steel Strand, Uncoated Seven- Wire for Concrete Reinforcement	M 203M-20		
Standard Specification for Low-Relaxation, Seven-Wire Steel Strand for Prestressed Concrete	De 1 2 2 1 1	A416M-18	
Standard Test Methods for Testing Multi-Wire Steel Prestressing Strand	28 M 2 2 2592	A1061M	
Standard Test Method for Analysis of Carbon and Low- Alloy Steel by Spark Atomic Emission Spectrometry			
STRUCTURAL STEEL	end to description	mort vet borthold	Aee? Institut
Standard Specification for Carbon Structural Steel	NATO STATE OF STATE O	A36M - 19	



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Description (Charles)	AASHTO	ASTM.	Other
Standard Specification for General Requirements for Rolled Structural Steel Bars, Plates, Shapes, and Sheet Piling	j gjant jeden gervini in	A6M-19	
Standard Specification for High-Strength Carbon- Manganese Steel of Structural Quality		A529M - 19	
Standard Specification for High-Strength Low-Alloy Columbium-Vanadium Structural Steel	7-y-7-(= . ° 120-1	A572M - 18	
Standard Specification for High-Strength Low-Alloy Structural Steel, up to 50 ksi [345 MPa] Minimum Yield Point, with Atmospheric Corrosion Resistance	IA - Br d	A588M - 19	9 = 10
Standard Specification for Structural Steel for Bridges		A709M - 15	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Standard Specification for High-Strength Low-Alloy Steel Shapes of Structural Quality, Produced by Quenching and Self-Tempering Process (QST)		A913M-03	
Standard Specification for Structural Steel Shapes	The state of the s	A992M - 20	
Standard Specification for Steel Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable	to see an in the fit.	A1008M-20	
Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process	4172	A653M-20	no a self y
Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength		A1011M-18a	
Standard Specification for Sampling Procedure for Impact Testing of Structural Steel		A673M-01	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Steel Bars for Concrete Reinforcement – Specification			PNS 49:2020
Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes		A500M - 20	
Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing	Dall bed on 2	A501M-14	



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Description	AASHTO	ASTM	Other
Standard Specification for Hot-Formed Welded and Seamless High-Strength Low-Alloy Structural Tubing	1 2 2	A618M-04 (2015)	
Standard Specification for Cold-Formed Welded and Seamless High-Strength, Low-Alloy Structural Tubing with Improved Atmospheric Corrosion Resistance		A847M - 14	
Standard Specification for Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing		A513M-20a	
Standard Specification for High-Strength Low-Alloy Structural Steel		A242M-13 (2018)	2 1
Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates		A283M-18	
Standard Specification for High-Yield-Strength, Quenched and Tempered Alloy Steel Plate, Suitable for Welding		A514M-18e1	
Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength		A1011M-18a	
tandard Specification for Steel Castings, Carbon, uitable for Fusion Welding, for High-Temperature ervice		A216M-18	
tandard Specification for Steel Forgings, Carbon and Illoy, for General Industrial Use		A668M-20a	
tandard Specification for Carbon Steel Bolts, Studs, and hreaded Rod 60,000 PSI Tensile Strength		A307 - 14e1	
tandard Specification for High Stregth Structural Bolts nd Assemblies, Steel and Alloy Steel, Heat Treated, Inch pimensions 120 ksi and 150 ksi Minimum Tensile Stregth, nd Metric Dimensions 830 MPa and 1040 MPa Minimum pensile Stregth		F3125M-19e1	
tandard Specification for Hex Cap Screws, Bolts and tuds, Steel, Heat Treated, 120/105/90 ksi Minimum ensile Strength, General Use		A449 - 14	
andard Specification for Carbon Steel, Alloy Steel, and ainless Steel Nuts for Bolts for High Pressure or High emperature Service, or Both		A194M - 20a	ā
andard Specification for Carbon and Alloy Steel Nuts		A563 - 15	7 2 -



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Description (ATCHER)	AASHTO	ASTM	Other
Standard Specification for Hardened Steel Washers Inch and Metric Dimensions	0.0 2.30	F436M - 19	
Standard Specification for Compressible-Washer-Type Direct Tension Indicators for Use with Structural Fasteners, Inch and Metric Series	v, tõe lases. La?	F959M - 17a	
Standard Specification for High Strength Structural Bolts and Assemblies, Steel and Alloy Steel, Heat Treated, Inch Dimensions 120 ksi and 150 ksi Minimum Tensile Strength, and Metric Dimensions 830 MPa and 1040 Mpa Minimum Tensile Strength		F3125M-19e1	enue e
Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware		A153M-16a	
Standard Specification for Alloy-Steel and Stainless Steel Bolting for High Temperature or High Pressure Service and Other Special Purpose Applications	e engen s	A193M-20	
Standard Specification for Quenched and Tempered Alloy Steel Bolts, Studs, and Other Externally Threaded Fasteners		A354-17e2	
Standard Specification for Hex Cap Screws, Bolts and Studs, Steel, Heat Treated, 120/105/90 ksi Minimum Tensile Strength, General Use	Francisco Company	A449-14	
Standard Specification for Anchor Bolts, Steel, 36, 55, and 105-ksi Yield Strength		F1554-18	i gayar sa
Standard Specification for Stainless Steel Bolts, Hex Cap Screws, and Studs		F593-17	
Standard Specification for Stainless Steel Nuts		F594-09 (2020)	
Standard Specification for Washers, Steel, Plain (Flat), Unhardened for General Use		F844-07a (2013)	
Standard Specification for General Requirements for Steel Bars, Carbon and Alloy, Hot-Wrought	May the The	A29M-20	
Standard Specification for Steel Bar, Carbon and Alloy, Cold-Finished	30 - 4 to 181	A108-18	
Standard Specification for Electrodeposited Coatings of Zinc on Iron and Steel		B633-19	
Standard Specification for Turnbuckles, Swaged, Welded, Forged	n self plan i	F1145-05 (2017)	Agmin Palgage a



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Description	AASHTO	ASTM	Other
Standard Specification for Turnbuckles and Shackles	M 269-96 (2018)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	fu _n
Standard Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes	5 × = 0 £ _ * *****, × 1	A312M-19	
Standard Specification for Welded Stainless Steel Mechanical Tubing		A554-16	-71,
Standard Specification for Steel Castings, Carbon, for General Application	5.4-1. — g =	A27M-20	
Standard Specification for Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels	The second of th	A479M-20	
Standard Specification for Welded and Seamless Steel Pipe Piles		A252M-19	r eg h
Standard Specification for Pipe, Steel, Black and Hot- Dipped, Zinc-Coated, Welded and Seamless	fm _	A53M-20	
Standard Specification for Steel Castings, High Strength, for Structural Purposes		A148M-20e1	
Standard Specification for High-Strength Low-Alloy Nickel, Copper, Phosphorus Steel H-Piles and Sheet Piling with Atmospheric Corrosion Resistance for Use in Marine Environments		A690M-13a (2018)	140 (c. ₁₀ , 30)
PILES	Steel Bolts, Hex 1	estract act note.	Apage Inde
Standard Specification for Steel Sheet Piling	M 202M-19	A328M-13a (2018)	
Standard Specification for High-Strength Low-Alloy Columbium-Vanadium Structural Steel		A572M - 18	
Standard Specification for Steel Castings, High Strength, for Structural Purposes	0 0 0 1	A148M-20e1	
Standard Test Method for Tensile Properties of Plastics	. III 34	D638-14	
Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials		D790-17	y i be
Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics	Company of the same	D256-10 (2018)	21



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Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position	at meta, a Pitte ye	D648-18	to a large of
SLURRY	rone5 beteleA hev	ations for Autocle	tandard Koacrit KAC)
Standard Test Method for Density of Bentonite Slurries	migress and south	D4380-12	in the last transfer of transfer of the last transf
Standard Test Method for Marsh Funnel Viscosity of Construction Slurries		D6910M-19	2007 - 021 1857 - 027 27 757 1 1 1 5
EXPANSION JOINT MATERIALS		cation for Quid	tandard Specifi
Standard Specification for Preformed Sponge Rubber and Cork Expansion Joint Fillers for Concrete Paving and Structural Construction	М 153-20	g	M ^{erc} ale Co
Standard Specification for Preformed Sponge Rubber, Cork and Recycled PVC Expansion Joint Fillers for Concrete Paving and Structural Construction	nd orken lage - eard Jane	D1752-18	
Standard Specification for Joint and Crack Sealants, Hot Applied, for Concrete and Asphalt Pavements	t general although deligate	D6690-15	
Standard Specification for Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types)	M 213-01 (2019)	D1751-18	
Standard Specification for Preformed Expansion Joint Fillers for Concrete (Bituminous Type)	M 33M-20	D994M-11 (2016)	
Standard Test Methods for Preformed Expansion Joint Fillers for Concrete Construction (Nonextruding and Resilient Types)		D545-19	
CONCRETE HOLLOW BLOCKS AND LOUVERS, ADOBE BLOCKS AND AUTOCLAVED AERATED CONCRETE (AAC) BLOCKS	2	PETAVOLIS APPA	
Standard Specifications for Loadbearing Concrete Masonry Units	N	C90-16a	
Standard Specification for Mortar for Unit Masonry	1.2	C270-19ae1	
Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units	(= ¥-, 1	C140M-20a	4
Standard Test Method for Linear Drying Shrinkage of Concrete Masonry Units		C426-16	



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Standard Specifications for Autoclaved Aerated Concrete (AAC)		C1693-11 (2017)	
Standard Specification for Thin-bed Mortar for Autoclaved Aerated Concrete (AAC) Masonry		C1660-10 (2018)	
Standard Specification for Backer Material for Use with Cold- and Hot- Applied Joint Sealants in Portland-Cement Concrete and Asphalt Joints.		D5249-10 (2016)	1 E 2
Standard Specification for Quicklime for Structural Purposes.		C5-18	3×
Standard Specification for Gypsum		C22M-00 (2015)	
Standard Specification for Rail-Steel and Axle-Steel Deformed Bars for Concrete Reinforcement	M322M-10 (2019)	A996M-16	
Standard Specification for Lightweight Aggregates for Insulating Concrete		C332-17	
Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan in Concrete		C618-19	4.
TIMBER	Polyfran E gyenget by		s grand does Degal based
Standard Specification for Wood Products	M 168-07 (2020)		= =
Standard Test Method for Centrifuge Moisture Equivalent of Soils	G Salar Republic	D425-17	7 (0)
PRESERVATIVE	ANGER AGRATEG EAGR	OCCUPATION OF A	AM PARKE O
Standard Specification for Preservatives and Pressure Treatment Processes for Timber	M 133-12 (2020)		
GYPSUM BOARD AND ACCESSORIES	vincesitinii	Chattaly not notice	nderd Speci
Standard Specification for Gypsum Board		C1396M - 17	



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Standard Specification for Application and Finishing of Gypsum Board	** yest?* -	C840-01	F
Standard Specification Glass Mat Gypsum Panels		C1658M-19e1	
Standard Specification for Nails for the Application of Gypsum Board		C514-04 (2020)	
Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs from 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness		C954-18	garden gerag
Standard Specification for Steel Self-Piercing Tapping Screws for Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs	No plan	C1002-18	c - Conforma
Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board		C475M-17	
PAINT, SHELLAC, LACQUER AND VARNISH		PageW) sale? Took	nal nationalization
Standard test Method for Density of Liquid Coatings, Inks, and Related Products		D1475-13	To the second second
Standard test Methods for Drying, Curing, or Film Formation of Organic Coatings		D1640M-14 (2018)	aced to recen
Standard Test Methods for Pigment Content of Solvent- Reducible Paints		D2371-19	
Standard Test Method for Volatile Content of Coatings		D2369-10 (2015)e1	paga gi
Standard Test Method for Fineness of Dispersion of Pigment-Vehicle Systems by Hegman-Type Gage	raka Bumpanya	D1210-05 (2014)	
Specification for Flat Latex Paint			PNS 139
Specification for Semi-gloss Latex Paint		1	PNS 463
Specification for Semi-gloss Enamel Paint			PNS 225
Specification for Enamel Paint			PNS 226



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Specification for Alkyd-based Metal Primer		1 7 7 1 1 1	PNS 366
Specification for Epoxy Metal Primer			PNS 2113
Specification for Flatwall Enamel Paint	7. y =		PNS 227
Specification for Gloss Latex Paint			PNS 462
Specification for Water Based Gloss Roof Paint	w 2 2		PNS 612
Specification for Elastomeric Wall Coating	no De la Verie		PNS 2116
Specification for Epoxy Enamel			PNS 2118
Specification for Roof Paint (Water Based, Flat)			PNS 464
Specification for Roof Paint (Portland Cement)			PNS 465
Paints and Varnishes – Clear Gloss Lacquer - Specification	81 10	27	PNS 368:2017
Standard Guide for Clear and Pigmented Lacquers		D333 -01 (2013)	
CARBON FIBER, CARBON FIBER SHEET AND ADHESIVE	apelled 36 medical	street for Volatile I	M tes? tribbusit
Standard Test Method for Tensile Properties of Polymer Matrix Composite Materials		D3039M-17	
Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers		D7234-19	
Standard Test Methods for Viscosity of Adhesives		D1084-16	
Standard Test Method for Tensile Properties of Plastics		D638-14	T _e and



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Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials	Tuga e Personation es profesa de la cris	D790-17	
Standard Test Method for Compressive Properties of Rigid Plastics	- Mer Sven Sell in a	D695-15	i grant their
Standard Test Method for Apparent Shear Strength of Single-Lap-Joint Adhesively Bonded Metal Specimens by Tension Loading (Metal-to-Metal)	2.0 F sace 3	D1002-10 (2019)	Song Land
Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers		D7234-19	e estre i infrae
Standard Test Method for Compressive Properties of Polymer Matrix Composite Materials with Unsupported Gage Section by Shear Loading	a talib Maha seg ^{er} tadh t	D3410M-16	The same of the
Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement	- Space Const	D792-13	
Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens	ts in any	C39M-20	
PIPE CULVERT AND STORM DRAINS		de lees not nobs	Special Specials
Standard Test Methods for Concrete Pipe, Concrete Box Sections , Manhole Sections, or Tile	T 280-14 (2018)	C497-19a	
Standard Specification for Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe	M 170-20	C76-19b	
Standard Specification for Reinforced Concrete Arch Culvert, Storm Drain and Sewer Pipe	M 206M-20	C506-19a	
Standard Specification for Reinforced Concrete Elliptical Culvert, Storm Drain and Sewer Pipe	M 207M-20	C507-19a	
Standard Specification for Nonreinforced Concrete Sewer, Storm Drain and Culvert Pipe	M 86M-20	C14-20	40
Standard Specification for Reinforced Concrete D-Load Culvert, Storm Drain and Sewer Pipe	M 242M-20	C655-19a	
Standard Specification for Precast Reinforced Concrete Monolithic Box Sections for Culverts, Storm Drains and Sewers	Kalen Byr	C1433-19	
Standard Specification for Precast Reinforced Concrete Box Sections for Culverts, Storm Drains and Sewers	M 259-20		



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Standard Specification for Precast Reinforced Concrete Box Sections for Culverts, Storm Drains and Sewers with Less Than 2 ft of Cover Subjected to Highway Loadings	M 273-20	12	7
Standard Specification for Perforated Concrete Pipe	M 175M-05 (2020)	C444-17	
Standard Specification for Concrete Drain Tile	M 178M-20	C412-19	
Standard Specification for Porous Concrete Pipe	M 176M-20	C654-19	harry and
Standard Specification for Pipe, Steel, Black and Hot- Dipped, Zinc-Coated, Welded and Seamless		A53M-20	
Standard Specification for Corrugated Steel Pipe, Metallic- Coated, for Sewers and Drains	M 36M-16 (2020)	A760M-15 (2020)	V
Standard Specification for Steel Sheet, Zinc- Coated (Galvanized), for Corrugated Steel Pipe	M 218-03 (2020)	BQ P P S P P	
Standard Specification for Corrugated Steel Pipe, Polymer-Precoated, for Sewers and Drains	M 245-20	A762M-19	
Standard Specification for Steel Sheet, Metallic-Coated and Polymer-Precoated. for Corrugated Steel Pipe	M 246-15 (2019)	A742M-20	
Standard Specification for Bituminous Coated Corrugated Metal Culvert Pipe and Pipe Arches	M 190-04 (2017)		
Standard Specification for Steel Sheet, Aluminum-Coated (Type 2), for Corrugated Steel Pipe	M 274-87 (2017)		
Standard Specification for Corrugated Aluminum Pipe for Sewers and Drains	M 196-16	B745M-15	
Standard Specification for Corrugated Aluminum Alloy Structural Plate for Field-Bolted Pipe, Pipe-Arches, and Arches	M 219-92 (2017)	B746M-16	
Standard Test Methods for Tension Testing of Metallic Materials	ras i era yaze	E8M-16ae1	
Standard Specification for Corrugated Polyethylene Orainage Pipe	M 252-20		
Standard Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based on Outside Diameter		F714- 1 3 (2019)	



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Standard Specification for Class PS46 Poly(Vinyl Chloride) (PVC) Pipe	M 278-15 (2019)	2 30 1 1 1 x 1 1 x 2 x 2 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3	
Standard Specification for Poly(Vinyl Chloride) (PVC) Large-Diameter Plastic Gravity Sewer Pipe and Fittings	N . sail of min	F679-16	
Standard Specification for Poly(Vinyl Chloride) (PVC) Profile Wall Drain Pipe and Fittings Based on Controlled Inside Diameter	M 304-11 (2019)	5 24 W W	
Standard Specification for Ductile Iron Culvert Pipe		A716-08	
Standard Specification for Clay Drain Tile and Perforated Clay Drain Tile		C4-04 (2018)	Toron Contract
Standard Specification for Vitrified Clay Pipe, Extra Strength, Standard Strength, and Perforated	y a , — 15 1975)) - 17	C700-18	
Standard Specification for Vtrified Clay Pipe and Joints for Use in Microtunneling, Sliplining, Pipe Bursting, and Tunnels		C1208M-18	30-1
Standard Specification for Acrylonitrile-Butadiene- Styrene (ABS) and Poly(Vinyl Chloride)(PVC) Composite Sewer Piping	M 264-03	D2680-01 (2014)	
Standard Specification for Cast Iron Soil Pipe and Fittings		A74-20	
Standard Specification for Gray Iron Castings		A48M-03 (2016)	eal met
Standard Specification for Ferritic Malleable Iron Castings		A47M-99 (2018)e1	
Standard Specification for Ductile Iron Castings		A536-84 (2019)e1	in the second
Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems	massissi at ta	D2846M - 19a	Silver to the second
Standard Specification for Corrugated Steel Structural Plate, Zinc-Coated, for Field-Bolted Pipe, Pipe-Arches, and Arches		A761M - 18	The state of the s
PVC WEEPHOLES	ses (Metalik:-Cost Wire With Poly(VIII	and Revet Matther raffic-Coated Steel partners	s ahoide) pas ah na asiM lea ni 2000 yantshir
Standard Specification for Type PSM Poly(Vinyl Chloride) (PVC) Sewer Pipe and Fittings		D3034 - 16	



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Standard Specification for Poly(Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series)	5_04_5_4	D2241 - 15	P
Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120	ξ ⁽¹⁾ = 1 = 1(= 1	D1785 - 15e1	
Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings	70 m m g m m	D2665 - 14	16
Standard Specification for Acrylonitrile-Butadiene- Styrene (ABS) and Poly(Vinyl Chloride) (PVC) Composite Sewer Piping		D2680 - 01 (2014)	
Standard Specification for Poly(Vinyl Chloride) (PVC) Large-Diameter Plastic Gravity Sewer Pipe and Fittings	, g= w	F679 - 16	9 <u> </u>
Standard Specification for Poly(Vinyl Chloride) (PVC) Sewer Pipe and Fittings		D2729 – 17	
Standard Specification for Poly(Vinyl Chloride) (PVC) Profile Wall Drain Pipe and Fittings Based on Controlled Inside Diameter	M 304-11 (2019)		
GABIONS AND MATTRESES	elasturk-kurtinak elastatu (DVP) (eb	u A in a moderation of the color of the colo	osol lika i Kulha mer
Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire	п	A641M-19	eserces States
Standard Specification for Zinc-5% Aluminum-Mischmetal Alloy-Coated Carbon Steel Wire		A856M-03 (2014)	
Standard Specification for Aluminum-Coated (Aluminized) Carbon Steel Wire	ties of	A809-08 (2017)	2 m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Standard Specification for Zinc-5% Aluminum (Hot-Dip) Coatings on Iron and Steel Products		A1072M-11 (2020)	17
Standard Specification for Metallic Coated Carbon Steel Wire, Coated at Size and Drawn to Size for Mechanical Springs	e Bernelle en	A764-07 (2017)	
Standard Test Methods and Definitions for Mechanical Testing of Steel Products		A370-19e1	
Standard Specification for Double-Twisted Hexagonal Mesg Gabions and Revet Mattresses (Metallic-Coated Steel Wire or Metallic-Coated Steel Wire With Poly(Viny)		A975-11 (2016)	1



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Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement	North and the second	D792-13	
Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers - Tension	. They also ex	D412-16	1 7 - 1
Standard Test Method for Rubber Property – Durometer	estante de la companya della companya de la company	D2240-15e1	
Standard Test Method for Brittleness Temperature of Plastics and Elastomers by Impact		D746-14	186
Standard Test Method for Determining Geonet Breaking Force		D7179-18	Sunday of a
FILTER MATERIALS (FABRIC)	active Strength applied to Structur	fethed for Com lative Nateral /	Kandard Test koreyed Pro-Ret fembers-
Standard Test Methods for Determining Apparent Opening Size of a Geotextile	a le estable la se	D4751-20	
Standard Test Methods for Water Permeability of Geotextiles by Permittivity		D4491M-20	
Standard Test Method for Grab Breaking Load and Elongation of Geotextiles	Vicini Vicini Ballini Vicini Bernari	D4632M-15a	
Standard Test Method for Static Puncture Strength of Geotextiles and Geotextile-Related Products Using a 50- mm Probe		D6241-14	
Standard Test Method for Trapezoid Tearing Strength of Geotextiles	-πι ²	D4533M-15	
Standard Test Method for Deterioration of Geotextiles by Exposure to Light, Moisture and Heat in a Xenon Arc-Type Apparatus		D4355M- 14(2018)	l l'iss
WATERPROOFING	AND THE STATE OF T	20 TEACH TEACH TO THE LAND	hotel pointing.
Standard Specification for Asphalt Primer Used in Roofing, Dampproofing, and Waterproofing	v20-932 0(0 - 0)	D41M-11 (2016)	V 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10
Standard Specification for Liquid Applied Acrylic Coating Used in Roofing	/	D6083M-18	Variable Car



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Standard Guide for Design of Built-Up Bituminous Membrane Waterproofing Systems for Building Decks		C981-20	
Standard Specification for Asphalt Used in Damproofing and Waterproofing		D449M-03 (2014)e1	1 1 10 10 10 10 10 10 10 10 10 10 10 10
SPRAYED CEMENTITIOUS FIREPROOFING	anized Rusper	ky not abordak sassif alemenar	das Tildrysba 19 adrialograd
Standard Test Methods for Thickness and Density of Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members		E605M-19	
Standard Test Method for Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members	100	E736M-19	
Standard Test Method for Compressive Strength of Sprayed Fire-Resistive Material Applied to Structural Members		E761M-92 (2020)	
Standard Test Method for Air Erosion of Sprayed Fire- Resistive Materials (SFRMs) Applied to Structural Members		E859M-93 (2020)	Sa a
Standard Test Method for Corrosion of Steel by Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members		E937M-93 (2020)	× .
Standard Test Method for Effect of Deflection on Sprayed Fire-Resistive Material Applied to Structural Members	10 To	E759M-92 (2020)	
Standard Test Method for Effect of Impact on Bonding of Sprayed Fire-Resistive Material Applied to Structural Members		E760M-92 (2020)	
Standard Test Method for Surface Burning Characteristics of Building Materials		E84-20	
Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750°C	2	E136-19A	
Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi		G21-15	



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ASPHALT ROOF SHINGLES, ASPHALT ROOF CEMENT AND UNDERLAYMENT		Matheds for Det Resistance of Plan	rasii bushasii pegmi mubansii
Standard Test Methods for Sampling, Testing, and Analysis of Asphalt Roll Roofing, Cap Sheets and Shingles Used in Roofing and Waterproofing		D228M - 19a	3 29 4 m/2 (200 2 2 4 m/2 (200)
Standard Test Method for Wind Resistance of Steep Slope Roofing Products (Fan-Induced Method)	des e l ei v	D3161M - 20	
Standard Test Methods for Fire Tests of Roof Coverings		E108 20a	g gypters
Standard Test Method for Granule Adhesion to Mineral- Surfaced Roofing by Abrasion		D4977M - 20	
Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing		D226M - 17	
Standard Specification for Asphalt-Saturated Organic Felt Underlayment Used in Steep Slope Roofing	Ris (M) 120 Los Charles (E)	D4869M - 16a	
Standard Specification for Underlayment Felt Containing Inorganic Fibers Usd in Steep-Slope Roofing	characteristics	D6757M - 18	
Standard Specification for Asphalt Roof Cement, Asbestos-Free	0.0 A	D4586M - 07(2018)	
GLASS-FIBER-REINFORCED CONCRETE (GFRC) COMPOSITES, ALKALI-RESISTANT GLASS FIBERS AND PLYMER CURING ADMIXTURE		stion for Zinc	Candard Specific
GFRC QC Manual: Manual for Quality Control of Plants and Production of Glass Fiber Reinforced Concrete Products	Grand ell mark		PCI MNL-130- 2009
Standard Test Method for Performing Tension Tests on Glass-Fiber Reinforced Concrete (GFRC) Bonding Pads	and Proposition	C1230-96 (2015)	g graf y Joseph National
Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50 mm] Cube Specimens)	ু স্থা	C109M-20b	
Standard Test Method for Flexural Properties of Thin- Section Glass-Fiber-Reinforced Concrete (Using Simple Beam With Third-Point Loading)		C947-03 (2016)	Span (C.C. 195)
Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor		D2583-13a	13.500 mg



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Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics		D256-10 (2018)	
Standard Test Method for Surface Burning Characteristics of Building Materials		E84-20	
Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C with a Vitreous Silica Dilatometer	- j 2:	D696-16	, n , n , n , n , n , n , n , n , n , n
Standard Test Methods for Physical Testing of Gypsum Panel Products	f_ s_g v , l s	C473-19	1 1
Standard Practice for Operating Open Flame Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials	parties of the state of the	G152-13	
Standard Test Method for Determination of Glass Fiber Content in Glass Fiber Reinforced Concrete (GFRC) (Wash-Out Test)	da se se	C1229-94 (2015)	The second second
Standard Specification for Alkali Resistant (AR) Glass Fiber for GFRC and Fiber-Reinforced Concrete and Cement		C1666M-08 (2015)	
Standard Specification for Pigments for Internally Colored Concrete		C979M-16	20
POWDER AND ZINC (GALVANIZING) COATING			en 4-antea
Standard Specification for Zinc		B6-18	63177 W
Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware		A153M-16a	-
Standard Guide for Testing Coating Powders and Powder Coatings		D3451-06 (2017)	
Standard Test Method for Specular Gloss	, , , , ,	D523-14 (2018)	
Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings		D522M-17	
Standard Test Method for Film Hardness by Pencil Test		D3363-20	



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Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes	2004	D1308-02 (2013)	
Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)	e	D2794-93 (2019)	
Standard Practice for Operating Salt Spray (Fog) Apparatus	COLUMN COLUMN	B117-19	
Standard Method of Test for Mass [Weight] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings	T 65M-19	A90M-13 (2018)	
Standard Method of Test for Mass [Weight] of Coating on Aluminum-Coated Iron or Steel Articles	T 213M-19	A428M-10 (2019)	
SEALINGS AND GASKETS	Sase Englishers		cated, for Sewellandard Specifi
Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers - Tension	a San San San San	D412-16	
Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials	rogs/M Substitution	G155-13	
JOINT FILLER/SEALANT	-lot-Dtp Galvanize	Clay or Shale) ation for 2nd (
Standard Specification for Preformed Expansion Joint Filler for Concrete (Bituminous Type)	M 33M-20		
Standard Specification for Preformed Sponge Rubber, Cork, and Recycled Rubber Expansion Joint Fillers for Concrete Paving and Structural Construction	M 153-06		
Standard Specification for Joint and Crack Sealants, Hot Applied, for Concrete and Asphalt Pavements	THE THE STATE OF	D6690-15	The second of the second
Standard Specification for Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types)	M 213-05	mily distributed to a	man manent
Standard Specification for Preformed Polychloroprene Elastomeric Joint Seals for Concrete Pavements	dre.) oler bes t Moon palents	D2628-91 (2016)	
Standard Test Methods for Sealants and Fillers, Hot- Applied, for Joints and Cracks in Asphalt Pavements and Portland Cement Concrete Pavements	no et al out	D5329-20	



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Standard Test Method for Electromagnetic Shielding Effectiveness of Durable Rigid Wall Relocatable Structures		E1851-15	
BACKER MATERIAL	PARTICIA LACIDA STAR		r sear dhear Glear and Rig
Standard Specification for Backer Material for Use with Cold-and Hot-Applied Joint Sealants in Portland-Cement Concrete and Asphalt Joints		D5249-10 (2016)	
FRAMES, GRATINGS, COVERS, LADDER RUNGS AND CORRUGATED METAL	onia.	Monage not matter	
Standard Specification for Steel Castings, Carbon, for General Application		A27M-20	
Standard Specification for Corrugated Steel Pipe, Metallic- Coated, for Sewers and Drains	M 36 -16		
Standard Specification for Asphalt-Base Emulsions for Use as Protective Coatings for Metal		D1187M-97 (2018)	
Standard Specification for Sewer and Manhole Brick (Made From Clay and Shale)		C32-13 (2017)	
Standard Specification for Building Brick (Solid Masonry Units Made From Clay or Shale)		C62-17	
Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products		A123M-17	
Standard Specification for Asphalt-Base Emulsions for Use as Protective Coatings for Metal		D1187M-97 (2018)	
Standard Specification for Gray Iron Castings	M 105-09		is a
Standard Specification for Carbon Structural Steel		A36M-19	
Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products	M 111M-19		
Standard Specification for Deformed and Plain Carbon and Low-Alloy Steel Bars for Concrete Reinforcement	M 31M-19		
Standard Specification for Sheet Materials for Curing Concrete	M 171-05		



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Description Description	AASHTO	ASTM	Other
Standard Specification for Precast Reinforced Concrete Manhole Sections	M 199M-17	1 - 1 - 1 - 1	
Standard Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals	a so especial in a	D3212-07 (2020)	
Standard Specification for Corrugated Aluminum Pipe for Sewers and Drains	M 196-16	eli gu la resulta	
Standard Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals	1948 - 1950 - 1964 - 1964 - 1964 - 1964 - 1964 - 1964 - 1964 - 1964 - 1964 - 1964 - 1964 - 1964 - 1964 - 1964	D3212-07 (2020)	
Standard Specification for Asbestos-Cement Underdrain Pipe	ÿ	C508M-00 (2015)	
UNDERDRAINS AND FLAP GATES	ess Steel Bars a	cation for Stain	Recogn Specifications
Standard Test Method for External Pressure Resistance of "Fiberglass" (Glass-Fiber-Reinforced Thermosetting- Resin) Pipe		D2924-12 (2017)	
Standard Specification for Gray Iron Castings for Valves, Flanges, and Pipe Fittings		A126-04 (2019)	Real Property
Standard Specification for Copper-Silicon Alloy Road, Bar and Shapes		B98M-13 (2019)	
Standard Specification for Ductile Iron Castings	112 1 2 2 2 2 2 3 3 3 4 3 4 3 4 3 4 3 4 3 4 3	A536-84 (2019)e1	1100
Standard Specification for Copper Alloy Sand Castings for General Applications	ngeryddiai a gyraghillan	B584-14	
Standard Specification for Stainless Steel Bolts, Hex Cap Screws, and Studs		F593-17	
Standard Test Method for Tensile Properties of Plastics	paristic efficient	D638-14	
Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials		D790-17	
Standard Test Method for Compressive Properties of Rigid Plastics	870 1077 37 107	D695-15	1 1 1 1
Standard Test Method for Water Absorption of Plastics	-0.4 2	D570-98 (2018)	



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Description	AASHTO	ASTM	Other
Standard Practice for Outdoor Weathering of Plastics	0 "	D1435-13	
Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate		B209-14	
Standard Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets	25 st	C443-20	
Standard Test Method for Tensile Properties of Polymer Matrix Composite Materials	- 2 2 2 10°	D3039M-17	
STAINLESS STEEL	ametril memetr	edevisk sot notice	Popal Immuni
Standard Specification for Stainless Steel Bars and Shapes		A276M-17	
Standard Specification for Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels.		A479M-20	
Standard Test Methods and Definitions for Mechanical Testing of Steel Products		A370-19e1	
Standard Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products		A751-14a	_01H
Standard Specification for General Requirements for Stainless Steel Bars, Billets, and Forgings		A484M-20b	
Standard Specification for Chromium and Chromium- Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications		A240M-20	
Standard Hardness Conversion Tables for Metals Relationship Among Brinell Hardness, Vickers Hardness, Rockwell Hardness, Superficial Hardness, Knoop Hardness, Scleroscope Hardness, and Leeb Hardness		E140-12B (2019)e1	
		FT vot abordati FT beautous b	Standard Test
Standard Specification for Aluminum-Alloy 6061-T6 Standard Structural Profiles		B308M-20	
standard Specification for Aluminum and Aluminum-Alloy extruded Bars, Rods, Wire, Profiles, and Tubes		B221-14	
tandard Specification for Aluminum and Aluminum-Alloy olled or Cold Finished Bar, Rod, and Wire		B211M-19	



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Description OTHEAS	AASHTO	ASTM	Other
Standard Specification for Aluminum and Aluminum Alloy Sheet and Plate	war de 1 zola	B209-14	e de la compa
Standard Specification for Aluminum-Alloy Sand Castings	Signal recoler	B26M-18e1	
Standard Practice for Operating Salt Spray (Fog) Apparatus	Cap. March 1	B117-19	
Standard Specification for Corrugated Aluminum Pipe for Sewers and Drains	M 196-16	B745M-15	
Corrosion in Natural Environments Exfoliation Corrosion Testing of 7075 and 7178 Aluminum Alloys—Interim Report on Atmospheric Exposure Tests	ng ser ser A		STP 558-1974
Standard Test Methods for Tension Testing Wrought and Cast Aluminum- and Magnesium-Alloy Products		B557 - 15	
Standard Specification for Aluminum and Aluminum – Alloy Rivet and Cold – Heading Wire and Rods	a and Artendaria	B316M-15	100 mm
Standard Practice for Extrusion Press Solution Heat Treatment for Aluminum Alloys		B807M-20	
FENDER - ELASTOMER (EXTRUDED, MOLDED, PNEUMATIC AND HYDRO-PNEUMATIC)		COME TAK EMANG	
Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension	sputte or troy	D412-16	
Standard Test Method for Rubber Property—Durometer Hardness	er such a lar	D2240-15e1	E TOTAL PARTIES
Standard Test Method for Rubber Deterioration—Surface Ozone Cracking Outdoors (Triangular Specimens)	glog dans grif fil og	D1171-18	e de la company
Standard Test Method for Rubber Property—Compression Set at Low Temperatures	and go off a steel	D1229-03 (2019)	
Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers	Company of the state of the sta	D624-00 (2020)	
Standard Test Method for Rubber Property—Effect of Liquids		D471-16a	1 6 6
Standard Test Method for Rubber—Deterioration in an Air Oven	1 1 - 15 - 10 - 10 - 10	D573-04 (2019)	to the constant



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Description	AASHTO	ASTM	Other
Standard Specification for Flexible Cellular Materials— Poly (Vinyl Chloride) Foam (Closed-Cell)	1 / 2	D1667-17	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Standard Test Methods for Flexible Cellular Materials Made from Olefin Polymers		D3575-20	
Standard Test Methods for Crosslinked Insulations and Jackets for Wire and Cable	- 0	D470-13	1 2 2
Standard Test Method for Measuring Rubber Deterioration – Cut Growth Using Ross Flexing Apparatus	~ . · · · · · · · · · · · · · · · · · ·	D1052-09 (2019)	· · · · · · · · · · · · · · · · · · ·
Standard Test Method for Rubber Property – Abrasion Resistance (Footwear Abrader)		D1630-16	2 - 7
Standard Classification System for Rubber Products in Automotive Applications	- 1 302 5	D2000-18	
Ships and Marine Technology – Floating Pneumatic Rubber Fenders – Part 2: Low Pressure	4-14		ISO 17357- 2:2014
Rubber, Vulcanized or Thermoplastic – Determination of Compression Set – Part 1: At Ambient or Elevated Temperatures	ges .	T1 4	ISO 815- 1:2019
COAL TAR ENAMEL			2011年 - 1892年11日 1月1日 - 1892年11日
Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)		D36M - 14(2020)	
Standard Test Method for Coking Value of Tar and Pitch (Alcan)	Laren e y Garden	D2415-20	
Standard Test Method for Sieve Analysis of Mineral Filler for Asphalt Paving Mixtures		D546-17	, a
Standard Test Method for Relative Density of Solid Pitch and Asphalt (Displacement Method)		D71 - 94(2019)	
Standard for Coal-Tar Protective Coatings And Linings For Steel Water Pipes			AWWA C203 -
CERAMIC/GRANITE TILES	toeffsvirisges is	actual not contin	7 Per Coches abun
Standard Test Method for Determining Visible Abrasion Resistance of Glazed Ceramic Tile		C1027- 09(Reapprove d 2017)	

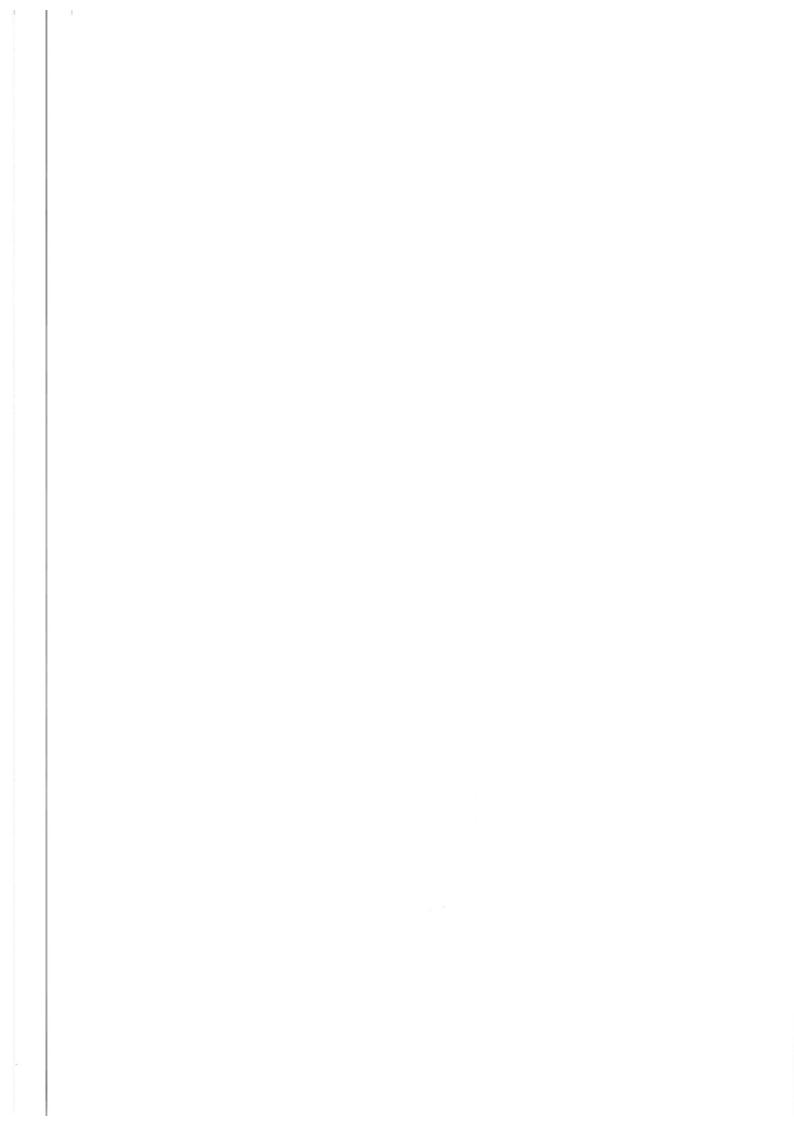


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Description	AASHTO	ASTM	Other
Determination of Resistance to Surface Abrasion of Glazed Tiles			ISO 10545- 7:1996
Ceramic Tiles – Part 6; Determination of Resistance to Deep Abrasion for Unglazed Tiles			ISO 10545- 6:2010
Standard Test Methods for Determination of Water Absorbtion and Associated Properties by Vacuum Method for Pressed Ceramic Tiles and Glass Tiles and Boil Method for Extruded Ceramic Tiles and Non-tile Fired Ceramic Whiteware Products		C373-18	
Determination of Water Absorption, Apparent Porosity, Apparent Relative Density and Bulk Density			ISO 10545-3
Standard Test Method for Resistance of Ceramic Tile to Chemical Substances		C650-20	
Determination of Chemical Resistance			ISO 10545-13
Standard Test Method for Breaking Strength of Ceramic Tile		C648-20	
Determination of Modulus Rupture and Breaking Strength			ISO 10545-4
Standard Test Method for Determination of resistance to Staining		C1378-20	
Determination of Resistance to Stains			ISO 10545-14

NOTE: Where no standard is shown, refer to the Bureau of Research and Standards (BRS) for guidance.

CERTIFICATE AND INSPECTION REPORT OF STANDARD FORMAT FOR ENGINEER'S **CASTING**





ENGINEER'S CERTIFICATE

Date:		EC No.:
Contract ID Contract Description	:	
Name of Contractor Description		
Contract Cost	:	
City/Municipality Station Limits Quantity	:	
	<material used=""> i</material>	n < Item of work> on the above project was
Project Engineer or Consultant's Reside Accreditation No.:	nt Engineer	Materials Engineer or Consultant's QA Engineer Accreditation No.:



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STADISTRED PRESMONE

Contract Description
Consultant's Resident Engineer



DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS <IMPLEMENTING OFFICE> <ADDRESS OF IMPLEMENTING OFFICE>

	Control No:	Date:
	INSPECTION REPO	PRT FOR CASTING
CONTRACT ID	:	
CONTRACT DESCRIPTI	ON :	
NAME OF CONTRACTO	OR :	
ITEM NO.	:	
DESCRIPTION	:	
QUANTITY	:	
DATE OF CASTING	:	
LOCATION/PRECAST Y	YARD :	

Activity	Satisfactory	Unsatisfactory	Remarks
Check all members/reinforcements are correct size, dimensions, location and elevation.			
Check specified concrete grade () was utilized.			
Check cylinder samples were promptly demoulded and placed in curing tank; Record Date:			
Check pour was continuous without interruption.			
Check specified finishing was complete and correct.			
Check correct curing method was promptly initiated.			
Check strength of (th) day cylinder samples			
Check form striking satisfactory and record date:			
Check concrete surface free of cold joints, honeycomb, exposed rebar or embedded timbers.			
Check no cracks			
Check concrete surface within spec.tolerances and free of off-sets,bends & dips			
Check minor surface repairs complete and compliant.			

DPWH PROJECT ENGINEER	or			
PROJECT INSPECTOR				
Accreditation No.				



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INSPECTION PERSON FOR CASTING

Activity	Satisfactory	Unsatisfactory	
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CONTRACTOR'S LOGO

NAME OF CONTRACTOR <OFFICE ADDRESS OF THE CONTRACTOR> <CONTACT NO. OF OFFICE OF THE CONTRACTOR>

Date: _____

Control No:_____

INSPECTION REPORT FOR CASTING				
CONTRACT ID :	*			
CONTRACT DESCRIPTION :				
NAME OF CONTRACTOR :				
ITEM NO. :				
DESCRIPTION :				
QUANTITY :				
DATE OF CASTING :				
LOCATION/PRECAST YARD :				
Activity	Satisfactory	Unsatisfactory	Remarks	
Check all members/reinforcements are correct size, dimensions, location and elevation.				
Check specified concrete grade () was utilized.				
Check cylinder samples were promptly demoulded and placed in curing tank; Record Date:				
Check pour was continuous without interruption.				
Check specified finishing was complete and correct.				
Check correct curing method was promptly initiated.				
Check strength of (th) day cylinder samples				
Check form striking satisfactory and record date :				
Check concrete surface free of cold joints, honeycomb, exposed rebar or embedded timbers.				
Check no cracks				
Check concrete surface within spec.tolerances and free of off-sets, bends &				

CONTRACTOR'S PROJECT				
ENGINEER				
Accreditation No.				

compliant.

Check minor surface repairs complete and

CONTACT NO. OF OFFICE OF THE CONTRACTOR>

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		Unsatisfactory	Remarks
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