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GENERAL PROVISIONS

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SPECIFICATION SECTION 01000 - GENERAL PROVISIONS

1. DESCRIPTION

The General Specifications shall be read in conjunction with the Conditions of Contract and the Technical Specifications.

The terms " approval ", " acceptance " or " consent " used in this Specification shall be effective when issued in writing. Verbal approval, acceptance or consent shall be followed up in writing.

1.1 Abbreviations

In addition to the Definitions and Interpretation shown in subclauses 1.1 and 1.2 of the Conditions of Contract the following abbreviations used in the Specification shall be interpreted as follows:

AASHTO	American Association of State Highway and Transportation Officials
ACI	American Concrete Institute
ANSI	American National Standards Institute
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
AC or A/C	Asphalt Concrete
BS	British Standard
BOQ	Bill of Quantities
CBR	California Bearing Ratio
CPM	Critical Path Method
CSI	Construction Standards Institute
Dia or ϕ	Diameter
Diaph	Diaphragm
Drg. or Dwg	Drawing
Ea	Each
FHWA	Federal Highway Administration of USA
Guss.	Gusset
IRI	International Roughness Index
HV	High Voltage
hr	Hour
LV	Low Voltage
LS	Lump Sum
Max., max	Maximum
Min., min.	Minimum
MONROE	Ministry of National Resources and Environment
MUTCD	Manual on Uniform Traffic Control Devices
No.	Number

NLEP	National Law on Environment Protection
PC or PrsC	Prestressed Concrete
PCC	Portland Cement Concrete
PrcC	Precast Concrete
PS	Provisional Sum
QA	Quality Assurance
QC	Quality Control
QCP	Quality Control Plan
RC	Reinforced Concrete
Sht.	Sheet
Spl.	Splice
W or Wt	Weight

1.2 Units of measure

Unless otherwise stated in these Specification Sections all the units of measurement used herein and in the Bill of Quantities are expressed in the standard metric system. Abbreviations of units used in the Specification are as follows:

°C or oC	Celsius or Centigrade
°F	Fahrenheit
cm	Centimeter(s)
cu.m or m ³	Cubic meter(s)
Gr	Gram
G/m ³	Grams per cubic meter
Ha	Hectare
HP or Hp	Horsepower
Hz	Hertz (Cycles per Second)
Kg	Kilogram
Kg/cm ²	Kilogram per square centimeter
Kg/cm ³	Kilogram per cubic centimeter
Kg/m ²	Kilogram per square meter
Kg/m ³	Kilogram per cubic meter
Km	Kilometer
Km/h	Kilometer per hour
L or lt	Liter
lm or m	Linear Meter
m ² or sq. m	Square meter
m ³ or cu.m	Cubic meter
mm	Millimeter(s)
mm ²	Square millimeter
MPa	Mega Pascal
m/s	Meter per second

Mg/L	Milligram per liter
N	Newton
N/mm ²	Newton per square millimeter
no.	Number
nos.	Numbers
rpm	Revolutions per minute
ppm	Part per million
sq. cm or cm ²	Square centimeter(s)
sq. m or m ²	Square meter(s)
T, t or ton	Metric ton (1000 kg)
USD or \$	United States Dollar
VND or VD	Vietnamese Dong
Y or ¥	Japanese Yen

2. REQUIREMENTS

2.1 Applicable Standards

- (a) The latest versions of current Vietnamese Standards and codes shall be applied. If an ambiguity or discrepancy is found in the Specification the Engineer shall issue any necessary clarification or instruction.
- (b) In addition to the Vietnamese Standards; AASHTO, ACI, ANSI, ASTM, FHWA, AWS, BS, JIS, etc. are to be applied.
- (c) The Engineer shall determine; the materials to be used, tolerances, measurement or payment methods, etc., unless otherwise described in the; Specification, or the Drawings, or the Standards and codes.
- (d) If the Contractor's proposed materials are in compliance with Standards other than those specified then the Contractor shall submit, for the Engineer's and the Employer's review and approval a detailed construction statement, including drawings and engineering data, documentation, to demonstrate that the proposed standards of his materials are, at least, comparable to those specified in the Specification and are in compliance with and equivalent to internationally recognized Standards.

2.2 Requirements Classification

The Specification Sections are intended to be particular to the work described on the Drawings (i.e. a particular specification) and/or describe/identify the scope of the Works to be performed. At the end of each Specification Section is a subsection which deals with measurement and payment. Generally this subsection sets out a schedule of the pay items from the Bill of Quantities through which the work described in the Specification Section and shown on the Drawings will be measured and paid.

The descriptions of the pay items in the Bill of Quantities are short and do not fully describe the extent of the work and therefore the Contractor is required to refer to the whole of the Specification Section(s) and Drawings for particulars on the full extent of the work measured under the various pay item(s). Notwithstanding the brevity of the descriptions of the pay items all the resources required to perform the work described in the Specification Section(s) and shown on the Drawings shall be included in the identified pay item(s) at the end of the Specification Section unless the measurement and payment subsection specifically dictates otherwise. For example (hypothetical); a pay item may measure a concrete guard post while the Specification Section and/or drawings may identify a requirement for; excavation, a concrete foundation, compaction and backfill. All these costs shall be included in the pay item even though the pay item in the Bill of Quantities only describes a concrete guard post.

The Works shown on the Drawings and/or described in the Specification are paid for directly or indirectly or inherently according to the subsection; usually titled Measurement and Payment, of the applicable Specification Section. All the costs of the work required to carry out the Works described on the Drawings and in the Specification Sections or inferred by the same, which are necessary to complete the Works, shall be included in the pay items identified in the particular Specification Section. In the event any work is not specifically described but is necessary to carry out the Works in accordance with the requirements of the Drawings and the Specification the costs thereof shall be included in the unit rates entered in the Bill of Quantities by the Contractor.

The classification established in this Specification Section for the measurement and payment for the Works is divided into the following categories:

Herein Referred to As	Explanation
Indirectly Paid Work:	Separate Items for measurement and payment in the Bill of Quantities are not needed because the work is deemed included in the rates and prices for other main Items, or distributed among all the Items listed in the Bill of Quantities. No separate payment shall be made for work, which is defined as Indirectly Paid Work.
Directly Paid Work:	Separate Items for measurement and payment are measured in the Bill of Quantities. Payment will be made based on the quantities measured and approved in accordance with the Specification Sections.

Inherently Paid Work:	Separate Items for measurement and payment in the Bill of Quantities are not needed because the work is deemed included in or distributed among all the rates and prices entered in the Bill of Quantities. No separate payment shall be made for work, which is defined as Inherently Paid Work.
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2.3 Advance Information

The emergency stop lane is 3 meters wide on the Drawings. The Employer is, at present, studying the feasibility of reducing the same to 2.5 meters wide. It is anticipated this reduction will be enacted in the construction phase. The embankments and bridges will remain the same and will not be reduced.

2.4 Certification/Payment of Lump Sums

In some Specification Sections the certification and payment of part or all of a lump sum in the Bill of Quantities is prorated to the progress of the Works, expressed in financial terms, through the Interim Payment Certificates. This approach is only intended to provide a mechanism for making payments to the Contractor and is intended to avoid dispute as to the amount to be certified and paid at any particular time. The lump sum prices included in the Bill of Quantities shall not be adjusted according to the Contract Price for the Works and shall be certified and paid in full. For the avoidance of doubt; there is no connection between the lump sum prices in the Bill of Quantities and the Contract Price.

The progress expressed in financial terms shall comprise a percentage calculated by taking the value of the measured work performed based on the unit rates in the Bill of Quantities but excluding; price adjustment, lump sums and provisional sums against the Accepted Contract Amount; excluding lump sums and provisional sums. The percentage arrived at shall be applied to the lump sum to arrive at the value of the work done.