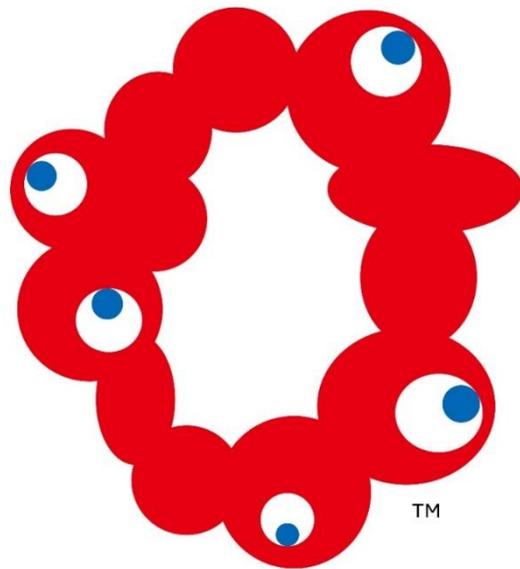


Construction and Demolition Work Guidelines for Self-Built Pavilions (Type A)



OSAKA, KANSAI, JAPAN

EXPO
2025

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Abbreviation, Short Title, Unit, and Definition

Abbreviation/Short Title	Official Name
BIE	Bureau International des Expositions
BIM	Building Information Modeling
EPS	Electric Pipe Space/Shaft
Unit	Official Name
Ha	Hectare
km	Kilometre
m	Metre
m ²	Square metre
kW	Kilo watt
%	Percent
kVA	Kilovolt-ampere
Hz	Hertz
Term	Definition
The Expo	Expo 2025 Osaka, Kansai, Japan that is scheduled to be held from the 13th of April to the 13th of October, 2025 in Osaka, Japan
Laws and Regulations	The Convention; the General Regulations; the Special Regulations; the laws of Japan; government ordinances; ministry ordinances; government notifications and notices; ordinances, rules and regulations of local governments; Guidelines, supplementary instructions and directives on administrative procedures, documents to be submitted, the details of rights and responsibilities of Participants and the Organiser and other items issued by the Organiser pursuant to the General Regulations and Special Regulations
General Regulations	The General Regulations included in Chapter 8 of the Registration Dossier approved at the 167th General Assembly of the BIE
Special Regulations	The Special Regulations set out in Article 34 of the General Regulations
Site Master Plan	A detailed plan that presents the overview of various property elements, spaces, buildings and other facilities within the Expo Site
Pavilions	Buildings in which Official Participants and Non-official Participants present their exhibitions, which include: Type-A (Self-Built) Pavilions, Type B (Organiser-Built (Module)) Pavilions and Type C (Organiser-Built Shared) Pavilions, as well as any space related to the buildings that are directly under their control
Type-A (Self-Built) Pavilions	Buildings/structures that Official Participants and Non-official Participants design and build on the Plot assigned to them by the Organiser
Pavilion Modules	Buildings built by the Organiser and rented to Official Participants, who can make their own interior and exterior arrangements and install their exhibits

Shared Pavilions	Buildings built by the Organiser and offered to Official Participants, who can arrange the space allocated to them and install their exhibits therein
Expo Site	All areas used and administered by the Organiser as the venue for the operation of the Expo
Plots	The areas of land allocated by the Organiser to Official Participants and Non-official Participants, in accordance with the Participation Contract and kept under their own control to use
Exhibition Space	The area assigned by the Organiser to the Participants as specified in the participation contract
One Stop Shop (General Consultation Point)	The staffed service points set up and operated by the Organiser for the purpose of centrally handling all submissions and applications from Official Participants and providing advice and other support with the help of the Participant Portal, to ensure that the Official Participants are able to smoothly pursue their activities and work in relation to the Expo
The online portal for the Official Participants	The online portal that enables smooth communication between Official Participants and One Stop Shop
Organiser	The Japan Association for the 2025 World Exposition, which was designated by the Minister of Economy, Trade and Industry on the 31st of May, 2019 to carry out tasks relating to the preparation and operation of the Expo, in accordance with the “Act on Special Measures Necessary for Preparing for and Managing of the International Exposition in 2025” and certified as a public interest incorporated association on the 21st of October, 2019
Participants	Official Participants and Non-official Participants. Official Participants means foreign governments and international organisations that have accepted the formal invitation from the Government of Japan to participate in the Expo. Non-official Participants means those who were authorised by the Commissioner General of the Exhibition to participate in the Expo outside the sections of the Official Participants
Communication and Coordination Council	A body that enables smooth coordination, etc. at the Expo Site where multiple construction works are implemented at the same time
General Contractor	A construction company that oversees and manages the Communication and Coordination Council that is established by the Organiser.
Related Institutions	Institutions that handle procedures in relation to construction work and design pursuant to the relevant Laws and Regulations in Japan
Application for a Building Permit	It is set out in Article 6 of the Building Standards Act. When any building is intended to be constructed, prior to the commencement of the related construction, the building owner must submit an application for confirmation that the plan

	concerned conforms to the provisions related to building regulations and obtain the said confirmation from a building official.
Permit for Commencement of Construction	A permit issued by the Organiser to Participants to approve of the commencement of construction in accordance with the approved design submitted by the designer
Final Inspection	An inspection by a building official as set out in Article 7 of the Building Standards Act as well as an inspection by the Organiser upon the completion of the construction work
Certificate of Final Inspection	It is set out in Article 7, paragraph (5) of the Building Standards Act. A certificate that is issued by the building official when he/she has conducted the Final Inspection set out in Article 7 of the Building Standards Act and confirmed that the relevant building conforms to the provisions related to building regulations
Certificate of Completion	A certificate that is issued by the Organiser only after a Participant has completed the construction work of its building and the relevant exterior spaces which then passes the Organiser's Final Inspection that the said Participant applies for
User's Permit	A permit that is issued only after a Participant has completed all of the exhibition-related work and installed all the exhibits which then passes the Organiser's inspection that the said Participant applies for
Permit for Commencement of Demolition/Removal Work	The Organiser's permit a Participant must obtain to commence demolition/removal work
Return of Plot	A procedure where Participants return their Plot to the Organiser after the demolition/removal of their exhibits and Pavilion
Return of Exhibition Space	A procedure for Participants' return of Exhibition Spaces to the Organiser after they have completed the demolition/removal work of their exhibits as well as the interior/exterior
Attestation of Return of Plot	An attestation with which the Organiser provides a Participant when the Organiser confirms that the Plot of the Participant concerned is restored following the completion of demolition/removal work
Attestation of Return of Exhibition Space	An attestation with which the Organiser provides a Participant when the Organiser confirms Exhibition Space of the Participant concerned is restored following the completion of demolition/removal work
Plot Sheet	An information document with which the Organiser provides Participants detailing the specifics of the allocated Plot, including the details of the Plot, advice on design, the location/coordinates of the Plot, the distribution of electricity, gas and water supply, and the locations of connection points for utilities within the Plot

Execution Areas	Shared temporary areas that are secured in the Expo Site in which building material yards, temporary drinking fountains and other facilities are established
Load/Unload Control System (provisional name)	A system that controls the access of commuter/transportation vehicles to the Expo Site
Conditions for Driving Permission in Yumeshima Island	Operation rules for construction vehicles within construction areas in Yumeshima Island
JAS	Japanese Agricultural Standard. A standard to provide agricultural, forestry, fisheries and livestock products with quality assurance, pursuant to the Law Concerning Standardization, etc. of Agricultural and Forestry Products
JIS	Japanese Industrial Standards. Japanese national standards pursuant to the Industrial Standardization Act, which defines specifications and measurement of industrial products in Japan
Environmental Impact Assessment Preparation Document	A document prepared by the Organiser that presents the results of its research, forecast, and assessment based on the environmental impact assessment system and defines its policy on environmental conservation
Environmental Impact Assessment Document	A document developed by the Organiser by amending the Environmental Impact Assessment Preparation Document as necessary after reviewing opinions of those who have a certain view on the aforementioned document from an environmental conservation perspective as well as the opinions of prefectural governors and similar authorities
Policy on the Sustainable Operation of the Expo	A policy established by the Organiser to realize the Expo that takes account of sustainability
Procurement Code	A code established by the Organiser that defines standards and methods, etc. to ensure that any related procurement activity complies with the Laws and Regulations; prevents environmental problems such as global warming and resource depletion and the infringement of human/labour rights; promotes equitable business practices; and invigorates local communities in order to achieve the Expo that takes account of sustainability
Fire Fighting Equipment, etc.	Equipment, etc. that are set out in Article 17 of the Fire Service Act
Utilities	Infrastructure-related facilities such as a water supply system, electricity, a sewage system (sewage and rainwater drainage), communication wiring, fire alarms, and cooling water

Introduction

This Guidelines document describes requirements to be fulfilled by Participants when they carry out the construction and demolition/removal work of Self-Built Pavilions for the Expo as well as issues relating to the management of such work by the Organiser.

The “Construction and Demolition Work Guidelines for Self-Built Pavilions” is developed to foster awareness of the requirements for, and the standards of the construction and demolition/removal work. While the “Design Guidelines for Type A (Self-Built) Pavilions” focuses on the design of Pavilions, this Guidelines document focuses on the construction and demolition/removal work thereof.

Purpose

The purposes of this Guidelines document are as follows:

- To provide clear guidance to enable the smooth implementation of construction and demolition/removal work while many contractors execute work at the Expo Site at the same time.
- To explain the flow of the construction work of Pavilions and clarify requirements and procedures to be followed.
- To comply with what is stated in the Environmental Impact Assessment Document and ensure that construction and demolition/removal work takes account of sustainability.

What is set out in this Guidelines document supplements Special Regulation No. 4.

Overview of This Guidelines Document

This Guidelines document consists of the following Chapters:

Chapter 1: Overview of Overall Process From Construction Through Demolition/Removal of Buildings and Return of Plot

It defines requirements at each phase from the construction of a Pavilion through the demolition/removal thereof that the Organiser requires that Participants satisfy.

Chapter 2: Rules and Management of Construction Work Within Expo Site

It defines rules on construction work and requirements for its management with the aim of supporting Participants during the construction work of Pavilions.

Chapter 3: Requirements for Fire Prevention and Security

It defines required Fire Fighting Equipment, etc. for fire prevention and security as well as requirements for security of Pavilions.

Chapter 4: Access to Utility Services

It defines requirements for access to utility services such as a water supply system, a sewage system (sewage and rainwater drainage), electricity, communication wiring, and cooling water.

Chapter 5: Securing of Occupation Safety and Health

It defines requirements for safety, hygiene, and working environment at the construction sites.

Chapter 6: Sustainability Efforts

It describes sustainability efforts and the environmental impact assessment system (environmental assessment system).

Chapter 7: Information Management System and Compliance with Quality Control

It defines an information management system that the Participants must establish as well as the procedures of communication and requirements for quality control.

Chapter 8: Demolition/Removal Work and Return of Plot

It defines requirements for procedures and rules in relation to demolition/removal work and the return of the allocated plot.

Chapter 9: Procedures for Notifications, Approval and Permits

It defines requirements for key procedures pursuant to this Guidelines document and the relevant Laws and Regulations in Japan.

Control and Guide

This document provides two types of indices—Control or Guide—to help Participants to construct and demolish/remove their Pavilions in compliance with this Guidelines document. The Organiser will also use these indices when it approves and permits documents submitted by Participants.

Alphanumeric codes are used to designate Control and Guide.

C-000 Control defines requirements that Participants must comply with and defines requirements as well as what is restricted or prohibited when planning and implementing the construction and demolition/removal work of their Pavilions.

G-000 Guide indicates the Organiser's recommendation to Participants to ensure that the construction and demolition/removal work of their Pavilions per se is in alignment with the purposes and objectives of the Expo.

Compliance with Laws and Regulations

Participants must perform the construction work of their Pavilions in compliance with relevant Japanese Laws and Regulations, ordinances of Osaka Prefecture and Osaka City, and other Laws and Regulations.

> Building Standards Act and Order for Enforcement of the Act

(Building Standards Act) <https://elaws.e-gov.go.jp/document?lawid=325AC0000000201>

(Order for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=325CO0000000338>

> Act on Architects and Building Engineers and Order for Enforcement of the Act

(Act on Architects and Building Engineers) <https://elaws.e-gov.go.jp/document?lawid=325AC1000000202>

(Order for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=325CO0000000201>

> Fire Service Act and Order for Enforcement of the Act

(Fire Service Act) <https://elaws.e-gov.go.jp/document?lawid=323AC1000000186>

(Order for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=336CO0000000037>

> Construction Business Act and Order for Enforcement of the Act

(Construction Business Act) <https://elaws.e-gov.go.jp/document?lawid=324AC0000000100>

(Order for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=331CO0000000273>

> Labor Standards Act and Ordinance for Enforcement of the Act

(Labor Standards Act) <https://elaws.e-gov.go.jp/document?lawid=322AC0000000049>

(Regulation for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=322M40000100023>

> Industrial Safety and Health Act, Order for Enforcement of the Act, and Ordinance on Industrial Safety and Health

(Industrial Safety and Health Act) <https://elaws.e-gov.go.jp/document?lawid=347AC0000000057>

(Order for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=347CO0000000318>

(Regulation) <https://elaws.e-gov.go.jp/document?lawid=347M50002000032>

> Construction Material Recycling Act and Order for Enforcement of the Act

(Construction Material Recycling Act) <https://elaws.e-gov.go.jp/document?lawid=412AC0000000104>

(Order for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=412CO0000000495>

> Waste Management and Public Cleansing Act (Waste Management Act) and Order for Enforcement of the Law

(Waste Management Act) <https://elaws.e-gov.go.jp/document?lawid=345AC0000000137>

(Order for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=346CO0000000300>

> Basic Act on the Environment

(Basic Act on the Environment) <https://elaws.e-gov.go.jp/document?lawid=405AC0000000091>

> Air Pollution Control Act and Order/Regulation for Enforcement of the Act

(Air Pollution Control Act) <https://elaws.e-gov.go.jp/document?lawid=343AC0000000097>

(Order for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=343CO0000000329>

(Regulation for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=346M50000500001>

> Soil Contamination Countermeasures Act and Order/Regulation for Enforcement of the Act

(Soil Contamination Countermeasures Act) <https://elaws.e-gov.go.jp/document?lawid=414AC0000000053>

(Order for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=414CO0000000336>

(Regulation for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=414M60001000029>

> Noise Regulation Act and Order/Regulation for Enforcement of the Act

(Noise Regulation Act) <https://elaws.e-gov.go.jp/document?lawid=343AC0000000098>

(Order for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=343CO0000000324>

(Regulation for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=346M50014d00001>

> Vibration Regulation Act and Order/Regulation for Enforcement of the Act

(Vibration Regulation Act) <https://elaws.e-gov.go.jp/document?lawid=351AC0000000064>

(Order for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=351CO0000000280>

(Regulation for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=351M50000002058>

> Act for Promoting Easily Accessible Public Transportation and Facilities for the Aged and the Disabled (Barrier-Free Act) and Order/Regulation for Enforcement of the Act

- (Barrier-Free Act) <https://elaws.e-gov.go.jp/document?lawid=418AC0000000091>
- (Order for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=418CO0000000379>
- (Regulation for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=418M60000800110>
- > Landscape Act and Order/Regulation for Enforcement of the Act
- (Landscape Act) <https://elaws.e-gov.go.jp/document?lawid=416AC0000000110>
- (Order for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=416CO0000000398>
- (Regulation for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=416M60000800100>
- > Act on the Measures by Large-Scale Retail Stores for Preservation of Living Environment and Order/Regulation for Enforcement of the Act
- (Act on the Measures by Large-Scale Retail Stores for Preservation of Living Environment) <https://elaws.e-gov.go.jp/document?lawid=410AC0000000091>
- (Order for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=410CO0000000327>
- (Regulation for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=411M50000400062>
- > Entertainment Facilities Act and Regulation for Enforcement of the Act
- (Entertainment Facilities Act) <https://elaws.e-gov.go.jp/document?lawid=323AC0000000137>
- (Regulation for Enforcement) <https://elaws.e-gov.go.jp/document?lawid=323M40000100029>
- > Osaka Prefectural Ordinance on the Enforcement of the Building Standards Act and Detailed Regulations
- (Ordinance) https://www.pref.osaka.lg.jp/houbun/reiki/reiki_honbun/k201RG00000834.html
- (Detailed Regulations) https://www.pref.osaka.lg.jp/houbun/reiki/reiki_honbun/k201RG00000835.html
- > Osaka Prefectural Ordinance on Welfare Communities and Regulation for Enforcement of the Ordinance
- (Ordinance) https://www.pref.osaka.lg.jp/houbun/reiki/reiki_honbun/k201RG00000861.html
- (Regulation for Enforcement) https://www.pref.osaka.lg.jp/houbun/reiki/reiki_honbun/k201RG00000862.html
- > Osaka Prefectural Ordinance on Maintenance of Living Conditions and Regulation for Enforcement of the Ordinance
- (Ordinance) https://www.pref.osaka.lg.jp/houbun/reiki/reiki_honbun/k201RG00000392.html
- (Regulation for Enforcement) https://www.pref.osaka.lg.jp/houbun/reiki/reiki_honbun/k201RG00000393.html
- > Osaka Municipal Ordinance on the Enforcement of the Building Standards Act and Regulation for Enforcement of the Ordinance
- > Osaka Municipal Ordinance on Fire Prevention and Regulation for Enforcement of the Ordinance
- > Osaka Municipal Government Guidelines for Accessible Urban Planning <https://www1.g-reiki.net/reiki37e/reiki.html>
- * Please refer to the Osaka municipal code of regulations.

Furthermore, Participants shall comply with, and refer to various Guidelines documents, including this Guidelines document, and materials that are provided by the Organiser, or other standards, etc. that are relevant to what Participants plan to carry out.

Documents Provided by the Organiser

Participants must perform the construction work of their Pavilions in compliance with the documents below. Please refer to Chapter 6 for more information.

- Environmental Impact Assessment Preparation Document and Environmental Impact Assessment Document
- Policy on the Sustainable Operation of the Expo
- Sustainable Procurement Code

1. Overview of Overall Process From Construction Through Demolition/Removal of Buildings and Return of Plot

This Chapter defines requirements at each phase from the construction of a Pavilion through the demolition/removal thereof that the Organiser requires that Participants satisfy.

1-1. One Stop Shop (General Consultation Point)

The Organiser will set up a One Stop Shop that centrally supports procedures at a variety of stages from the preparation phase of the exhibition through the removal of building materials after the Expo to assist Official Participants.

The One Stop Shop (General Consultation Point) consists of an online Participant Portal and staffed service points and handles requests, inquiries, applications and demands from Official Participants and provides necessary services.

- Responding to technical inquiries;
- Handling the procedures for design and construction work specified in this Guidelines document; and
- Offering consultation on the procedures required by the Related Institutions in Japan.

“The online portal for the Official Participants” is only for the Official Participants. Regarding matters described in this Guidelines to be submitted through the online portal for the Official Participants, procedures and service provision for those other than the Official Participants will be determined separately.

1-2. Timeline

C-001 Participants shall implement their plan in accordance with the following timeline:

Please note that the average lead time from document submission to approval and the number of days to the deadlines described in this Guidelines document hereafter refer to the number of days exclusive of Saturdays, Sundays, national holidays, and other day-offs that the Organiser specifies.

(Legend: ◆ Required procedure ◇ Deadline)

- ◆ First submission (the general Design Plan)
- ◆ Second submission (the final Design Plan)
- ◇ Handover of the allocated Plot: To be completed from the 13th of April, 2023
- ◆ Permit for Commencement of Construction
- ◇ Construction work : To be completed by the 13th of July, 2024
- ◇ Interior refurbishment and final finishing work : To be completed by the 13th of January, 2025
- ◆ Completion of construction work (User’s Permit)
- ◇ Installation of exhibits : To be completed by the 13th of March, 2025
- ◇ Completion of exhibit installation (User’s Permit)
- ◇ The Expo period : From the 13th of April to the 13th of October, 2025
- ◆ Permit for Commencement of Demolition/Removal Work
- ◇ Return of Plot : To be completed by the 13th of Aril, 2026

- C-002** Participants shall, whenever they change the work schedule they submitted, submit updated work schedule to the Organiser via the online portal for the Official Participants. The work schedule shall describe the details of construction and demolition/removal work.
- C-003** Participants shall have signed the Participation Contract before the Organiser handovers the Plot allocated to them.

1-3. Design

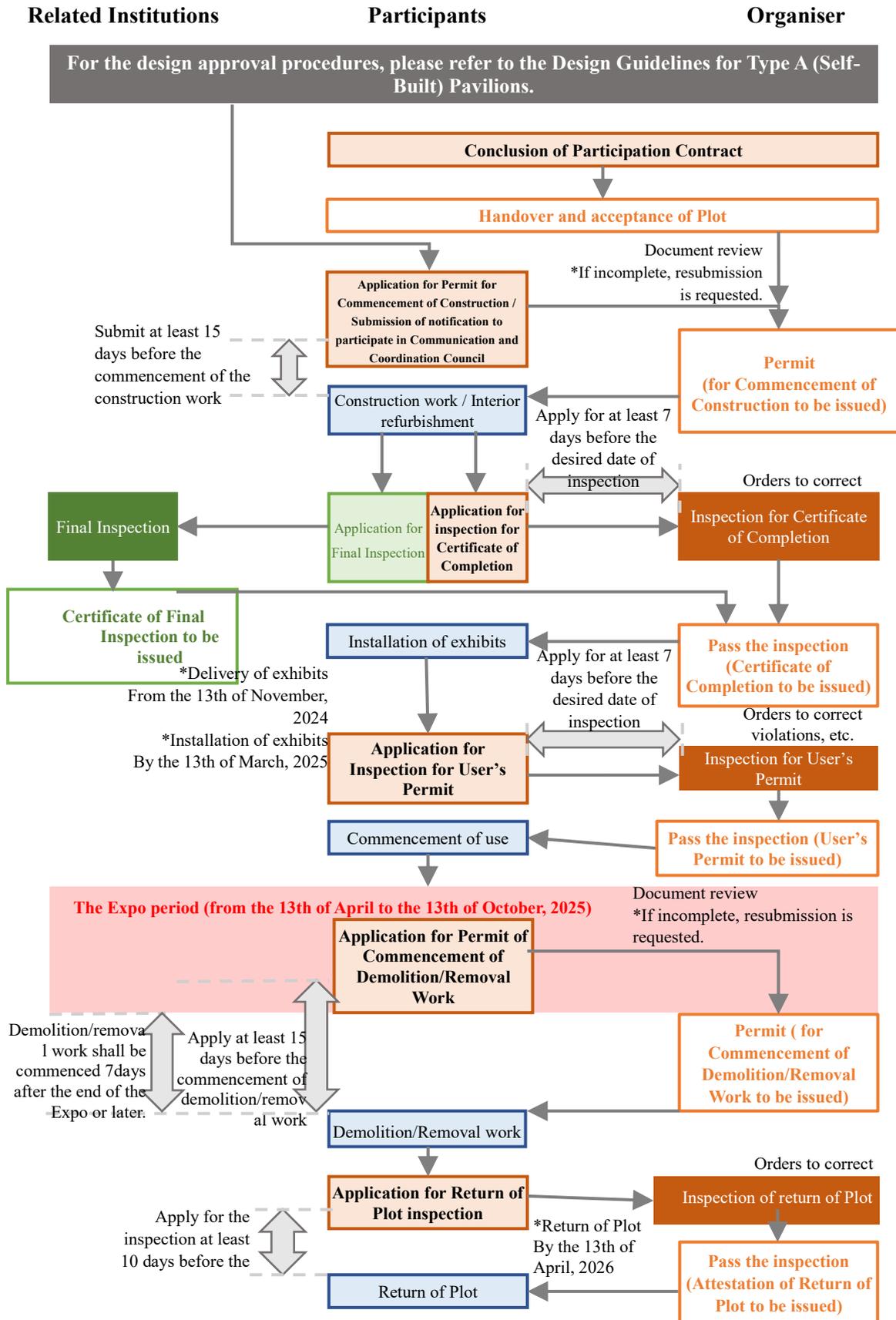
Please refer to the Design Guidelines for Type A (Self-Built) Pavilions for requirements for design, the Plot Sheet, and the submission of Design Plans.

- C-004** Participants shall, when they desire to change the design of their Pavilion, submit a Design Plan set out in the Design Guidelines for Type A (Self-Built) Pavilions and obtain the Organiser's approval. However, if the Organiser considers that the design change is immaterial (as it clearly complies with the Guidelines), the Organiser's approval is not required. The Design Plan shall be submitted to the Organiser via the online portal for the Official Participants.
- C-005** Please note that if the design change involves change in floor area or reconstruction, it is required to be notified to the Japan Customs in advance. Therefore, prior to the commencement of the related construction work, Participants shall prepare the Organiser-designated documents and submit them to the Organiser, in addition to the procedure described in C-004. The Organiser will submit the documents to the Japan Customs.

1-4. Procedural Flow of Approval and Authorisation

Participants shall apply for required permit and inspection at each phase in accordance with the flow shown in Figure 1.1. For the details of the procedures, please refer to Chapter 9.

Figure 1.1 Flow of Approval and Authorisation



1-5. Selection of Construction Supervisor

Participants may choose a construction supervisor from among the supplier list for the Official Participants.

- C-006** In such a case, Participants shall appoint a construction supervisor who belongs to a registered architect's office and is qualified as an architect.
- C-007** Participants shall submit the information of the appointed construction supervisor to the Organiser via the online portal for the Official Participants at least 15 days before the commencement of the construction work.

1-6. Selection of Contractors

Participants may choose contractors from among the supplier list for the Official Participants.

- C-008** In such a case, Participants shall appoint contractors that are registered with the permit under the Construction Business Act and employ qualified staff. Participants shall also appoint field supervisors.
- C-009** Participants shall submit the information of the appointed contractors and field supervisors to the Organiser via the online portal for the Official Participants at least 15 days before the commencement of the construction work.

1-7. Requirements for Insurance for Construction Work

- C-010** All the contractors must take out following insurance for their construction work for the period of the work concerned. For further information, please refer to Special Regulation No. 8, which defines requirements for insurance, and the related Guidelines. Participants and their contractors shall have shared responsibility for insurance for the construction work within their Plot.
 - Workman's compensation
 - Motor insurance
 - Employment insurance
 - Social insurance (health insurance and employees' pension insurance)
 - Insurance in respect to construction, assembly, as well as civil engineering work on buildings, structures, and equipment and apparatus
(including civil liability endorsement)
- C-011** Participants and their contractors shall submit the copy of the required insurance policies to the Organiser via the online portal for the Official Participants at least 15 days before the commencement of the construction work.
- G-001** It is desirable that contractors take out the following insurance. For further information, please refer to Special Regulation No. 8, which defines requirements for insurance, and the related Guidelines.
 - Automobile insurance (to be taken out as a supplement to the motor insurance if necessary)
 - Bond insurance
 - Non-life insurance

- Labour accident compensation insurance (to be taken out as a supplement to the workman's compensation if necessary)
- Cyber risk insurance

1-8. Requirements for Commencement of Construction Work (Permit for Commencement of Construction)

C-012 Participant shall obtain the Permit for Commencement of Construction from the Organiser via the online portal for the Official Participants. The application shall be made at least 15 days before the scheduled commencement date of the construction work. The application shall be accompanied by required documents. For further information, please refer to Chapter 9.

1-9. Construction Work

Participants may commence the construction work only after the Permit for Commencement of Construction is issued by the Organiser. For further information, please refer to Chapter 9.

C-013 Participants shall complete their construction work, interior refurbishment and the final finishing work, and the installation of exhibits by the designated dates specified in "1-2. Timeline" herein. The work schedule of the Organiser (for reference only) is available on the online portal for the Official Participants.

C-014 Participant shall follow the rules and procedures specified by the Organiser for the customs clearance, and the transportation and handling of freight. For further information, please refer to Special Regulation No. 7, related Guidelines, and other relevant documents. The "Guidelines for Handling of Freight" (provisional title) is planned to be developed in the future.

C-015 Upon the completion of exhibit installation, Participants shall carry out trial and test operation and apply for an inspection to the Organiser to obtain the User's Permit.

G-002 It is desirable that Participants establish procedures for the trial and test operation. The Organiser may request that Participants should present the procedures to the Organiser.

1-10. Demolition/Removal Work

C-016 Participants shall complete the demolition/removal of their Pavilions and restore the Plot and return it to the Organiser by the designated dates specified in "1-2. Timeline" herein. For further information, please refer to Chapter 8.

C-017 Participant shall follow the rules and procedures specified by the Organiser for the customs clearance, and the transportation and handling of freight. For further information, please refer to Special Regulation No. 7, related Guidelines, and other relevant documents. The "Guidelines for Handling of Freight" (provisional title) is planned to be developed in the future.

1-11. Document to be Submitted

The following are documents concerning this Chapter that the Organiser requires Participants to submit. The documents are to be submitted to the Organiser via the online portal for the Official Participants. Designated formats for documents to be submitted will be made available on the online portal for the Official Participants.

Names of documents to be submitted:

- Work schedule of the construction work of the Pavilion (in case of change in schedule) (1-2)
- Notification of immaterial change (in case of immaterial change) (1-3)
- Notification of change in floor area (in case of change in floor area) (1-3)
- Notification of the selection of a construction supervisor (1-5)
- Notification of contractors and field supervisors (1-6)
- Notification of insurance taken (1-7)

1-12. Reminders of Standards Referred to in This Chapter (Supplementary Information)

- Design Guidelines for Type A (Self-Built) Pavilions (for Official Participants)
- Appendix for the Design Guidelines for Type A (Self-Built) Pavilions

2. Rules and Management of Construction Work Within Expo Site

This Chapter defines rules of construction work within the Expo Site and requirements and recommendation for its management with the aim of supporting Participants during the construction of their Type-A (Self-Built) Pavilions.

The Organiser established the key rules of construction work and required work management within the Expo Site in this Chapter in order to enable Participants to construct a Pavilion in their allocated Plot in the way that is consistent with the construction plan for the entire Expo Site. Participants shall also comply with other rules of construction work that are separately established by the Organiser outside of this Guidelines document.

2-1. Construction Plan for Entire Expo Site

The Organiser will establish a construction plan for the entire Expo Site, including required management system for the construction work of the entire Site, temporary work-related facilities that may be used by all of the contractors, and traffic control system for construction/commuter vehicles. Participants and their contractors shall comply with the construction plan for the entire Expo Site in executing their work on the Plot.

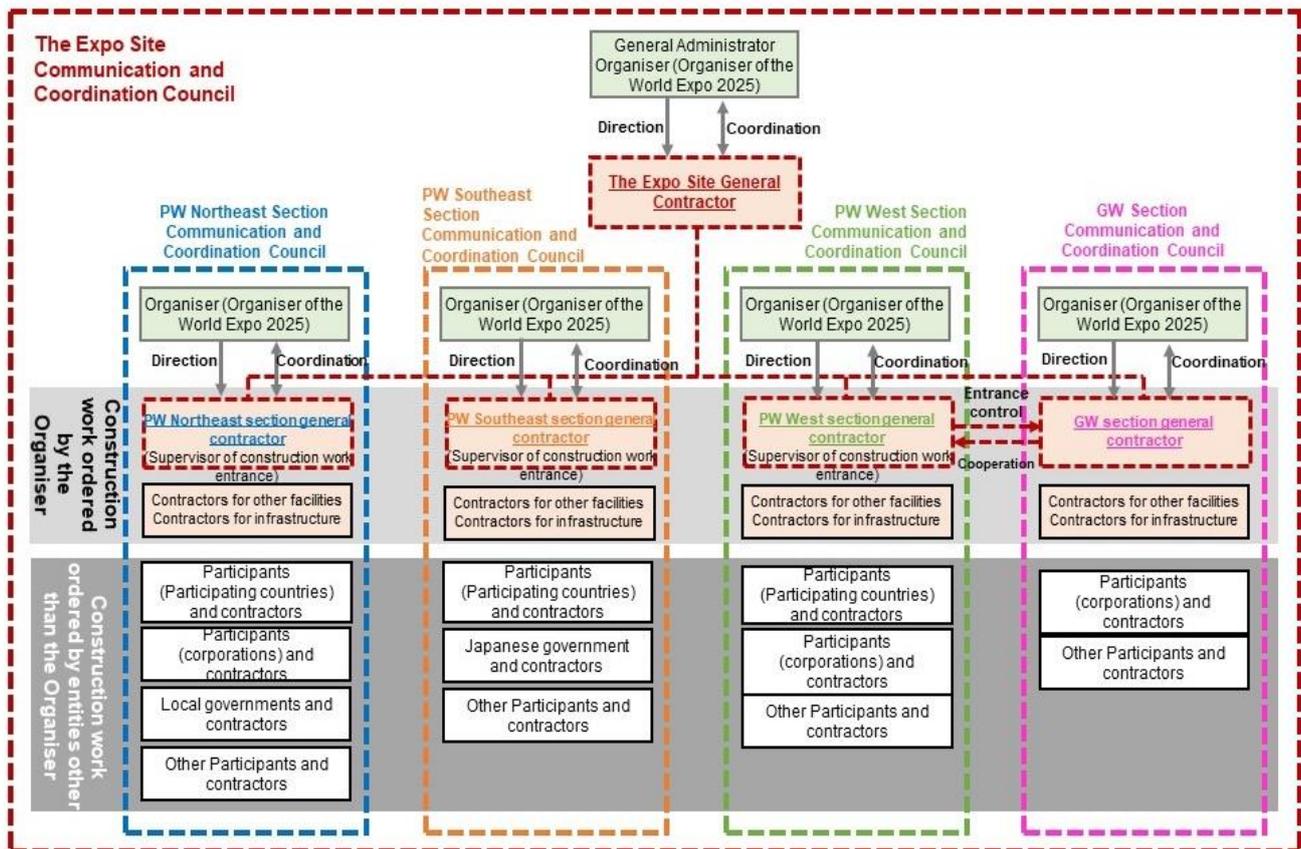
2-1-1. Communication and Coordination Council

As construction/infrastructure work for multiple facilities, including Pavilions, are carried out within the Expo Site at the same time, it is important to coordinate such work conducted by various contractors, monitor and control the progress of each work, control the traffic of construction/commuter vehicles, and ensure compliance with the rules of construction work, etc. In addition, other projects, including that for IR, are ongoing in Yumeshima Island, and thus coordination with parties involved in Yumeshima-related work is necessary. In order to ensure smooth coordination among contractors, including those who are involved in the non-Expo projects in Yumeshima, the Organiser will establish the Communication and Coordination Council, that is led by the Organiser-appointed General Contractor (construction company). The following are key features of the Communication and Coordination Council, etc.

- The Organiser plans to establish two types of Communication and Coordination Councils by the end of FY2022, before construction work is commenced: the Expo Site Communication and Coordination Council, which is responsible for ensuring compliance with the rules of construction work within the Expo Site and facilitating coordination for the work on the Site; and sectional Communication and Coordination Councils, which are responsible for facilitating coordination for the work in the Organiser-designated sections within the Site. (Hereinafter the “Communication and Coordination Council,” for both the Expo Site Communication and Coordination Council and the sectional Communication and Coordination Councils.)
- The Communication and Coordination Council is, as the Organiser-appointed General Administrator, expected to give the Expo Site (sectional) General Contractors appointed by the Organiser instructions and work with them through reporting, communication and coordination as necessary.

- The Communication and Coordination Council consists of the Organiser, General Contractors, Participants and their contractors, and other contractors that perform the construction work of facilities and infrastructure that the Organiser takes responsibility to prepare.
- The Organiser and the General Contractors, through the Communication and Coordination Council, have responsibility and authority to collect the opinions of contractors concerning what should be coordinated to perform the construction work and coordinate these contractors in line with this Guidelines document and the Organiser-established and approved rules of construction work discussed later.
- Each contractor shall report what should be coordinated to perform the construction work to the General Contractor in meetings, etc. held by the Communication and Coordination Council and the results of the coordination will be communicated to Participants and their contractors.
- The rules of the construction work, which is established by the Organiser outside of this Guidelines document, are communicated via the Communication and Coordination Council as well.

Figure 2.1 Schematic Diagram of Communication and Coordination Council



C-018 Participants and their contractors shall participate in the Communication and Coordination Council of the section their Plot belongs to. Participants shall submit a notification to participate in the relevant Communication and Coordination Council that confirms their participation therein. (Please refer to Chapter 9.) Participants shall offer cooperation to ensure the smooth site development in compliance with the rules established by the Organiser and according to the instructions of the General Contractor. In

addition, Participants or their contractors shall attend the meetings the Organiser specifies.

C-019 Participants and their contractors shall comply with the rules of construction work that are separately established by the Organiser in addition to the rules set out in this Guidelines document. The following are the key rules that the Organiser plans to establish.

- Rules for construction vehicles (the number of vehicles and entry/exit control)
- Rules for commuter vehicles (restriction on the use of private cars)
- Routes for construction vehicles and traffic rules within the Site
- Rules concerning how to use work-support yards
- Rules concerning issues that requires coordination when executing construction work and the reporting timing thereof
- Operation rules for the Communication and Coordination Council and rules concerning other cost allocation
- Rules concerning other additional issues to be coordinated

C-020 Participants or their contractors shall, in compliance with the rules established by the Organiser, report to the General Contractors and follow the instructions of the Organiser and the General Contractors for the following items that require coordination with other Participants:

- Process and schedule of construction work
- Number of construction vehicles and their entry/exit timing by route to the Site
- Number of commuter vehicles and their entry/exit timing by route to the Site
- Plan describing the use of construction machine such as cranes in construction work
- Plan describing work that uses a space outside of their Plot
- Plan describing how to treat construction generated soil in line with the Soil Contamination Countermeasures Act

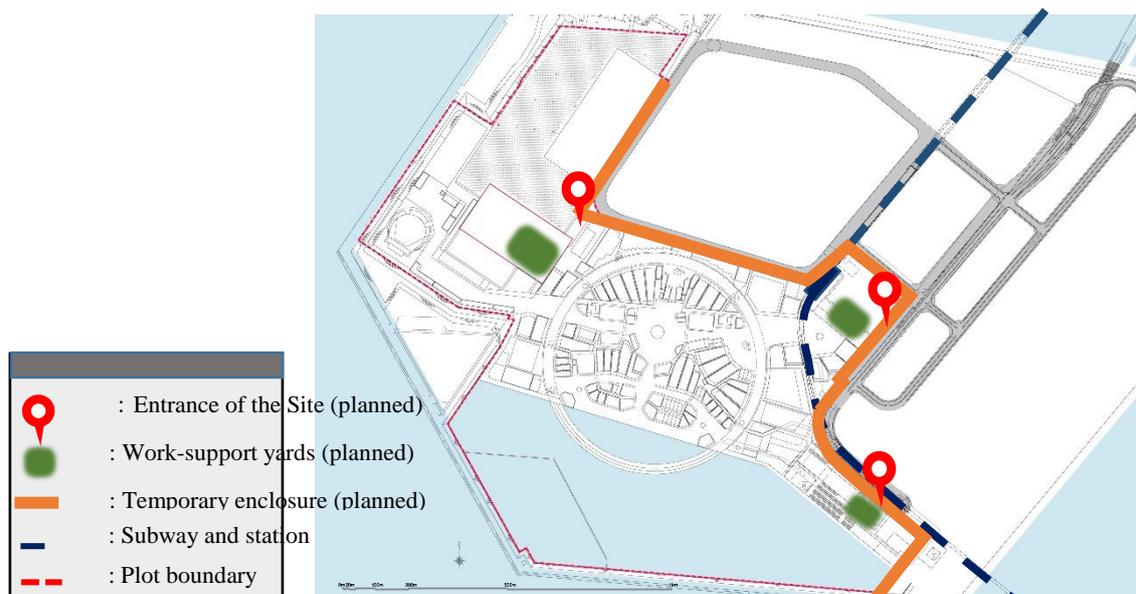
2-1-2. Shared Temporary Construction Facilities Within the Site

The Organiser will establish shared temporary construction facilities that any Participants and their contractor may use within the Site. The following are shared temporary construction facilities planned to be established:

- Temporary enclosure on the periphery of the Site
- Passageway for construction within the Site
- Entrance gate (entry/exit control)
- Security guard at the entrance gate (entry/exit control)
- Construction vehicle management equipment
- Tire washing equipment (at each entrance gate)
- Soil volume measurement equipment
- Work-support yards

(Waiting spaces for construction vehicles, material storage, parking lot for commuter vehicles, and other shared temporary construction facilities, etc.)

Figure 2.2 Draft Installation Plan for Temporary Construction Facilities in the Site (Planned)



2-1-3. Control of Construction/Commuter Vehicles Within Entire Expo Site

In Yumeshima Island where the Expo Site is located, construction work for the Expo, that for IR, and work to establish infrastructure such as roads and subways within Yumeshima are conducted in parallel. Therefore, there is concern that the number of construction vehicles and commuter vehicles (hereinafter referred to as “Construction-related Vehicles”) is significantly increased, resulting in traffic jam in and around Yumeshima Island. With this situation in mind, Participants and their contractors shall consider and execute a vehicle management plan that takes into account traffic conditions, including restriction on the number of the Construction-related Vehicles and staggered entry/exit.

- C-021** Participants shall limit the number of the Construction-related Vehicles to the minimum.
- C-022** Participants shall report the scheduled entry/exit time and the number of the Construction-related Vehicles to the General Contractor as specified in the rules established by the Organiser. In addition, Participants shall revise their plan based on the results of the General Contractor’s review and coordination concerning the entry/exit time and the number of the Construction-related Vehicles across the Expo Site as well as in each section.
- C-023** The Organiser plans to introduce a traffic control system for the Construction-related Vehicles. Participants shall register their Construction-related Vehicles in advance as specified in the rules established by the Organiser. Participants shall pay the costs for establishing the traffic control system and construction vehicle management equipment to the Organiser or General Contractor.

2-1-4. Consideration Towards Natural Environment

On Yumeshima Island, which is the planned venue of the Expo Site, rare wild fauna and flora species listed in the “Ministry of the Environment’s Red List 2020” and the “Osaka Prefecture’s Red List 2014,” etc. are observed.

Therefore, consideration towards natural environment is required in executing various types of construction work, including the construction of Pavilions, within the Site.

- C-024** If and when little turns are observed during construction work, it shall be promptly reported to the Organiser and appropriate measures to prevent them from making nests, such as covering with bird net, shall be implemented based on the “Conservation/Consideration Guidelines for Breeding Ground of Little Turns” (2014, Wildlife Division of Nature Conservation Bureau, the Ministry of the Environment). If the nests of little turns are observed, it shall be promptly reported to the Organiser and Participants shall follow the instructions of the Organiser, such as giving no-entry orders for surrounding areas as a general rule, as the situation requires due consideration and appropriate measures.
- C-025** As rare wild fauna and flora species are observed within and around the planned Expo Site, Participants shall ensure that appropriate conservation measures in accordance with the Organiser’s instructions, such as using low-noise and low-vibration construction machine and reviewing the direction and brightness of night lighting, are implemented.
- C-026** Participants shall ensure all the construction personnel understand that appropriate measures shall be taken in consideration of the fauna and flora in and around the Expo Site, such as giving orders to prohibit unnecessary entry to areas outside of their construction site.

2-2. Construction Work Plan Within the Plot

From the allocation of Plots through the end of the Expo, infrastructure work and the construction of multiple facilities are carried out within the Expo Site. Against such backdrop, Participants will have their Pavilions constructed. Therefore, Participants shall comply with the rules of construction work within the Expo Site, including those specified in this Chapter, as well as the rules of construction work separately established by the Organiser and prepare a construction work plan.

- C-027** Participants shall submit the work plan for the construction work in their Plot to the Organiser via the online portal for the Official Participants at least 15 days before the commencement of the construction work. The construction work plan shall detail the organisational structure for construction work of the Participant concerned, work schedule, and other related matters. The following are key components which should be described in the construction work plan:
- Organisational structure for construction
 - Overall work schedule (overall schedule from the commencement of the construction work through the completion of work related to exhibit installation)
 - Schematic installation plan for temporary construction facilities within the Plot (including lifting plan, etc.)
 - Health and safety plan (please refer to Chapter 5)
 - List of key materials (the volume and delivery timing of planned materials [including service water])
 - Number of workers (the planned number of workers and their work timing)

- Number of Construction-related Vehicles (the planned number and usage timing of construction vehicles, commuter vehicles, and construction machine)
- Volume of waste and excess soil to be disposed of (planned volume and timing)
- List of emergency contact
- Security control within the Plot
- Other construction work-related documents on specific work required by the Organiser

C-028 Participants shall implement necessary measures to mitigate risks and an impact on the adjoining Plot(s) and the entire Expo Site. Participants shall limit the construction work of their Pavilion within their Plot as far as possible and ensure the efficient use of spaces therein. If work outside of a Participant's own Plot is required, please refer to "2-4. Permit for Work Outside of Plot." Until the Organiser completes installing a sewage system into each Plot and give permit of drainage to Participants, Participants shall plan their work in and outside of their Plot not to generate waste water.

C-029 Participants must not cause damage to facilities, etc. of the Organiser and other Participants, regardless of whether they are finished or under construction, during the construction work of their Pavilion.

C-030 Participants shall report any damage they or their contractors cause in their execution of construction work within the Expo Site to the Organiser and take responsibility for such damage. If the Organiser demands that the Participant concerned should repair the damaged works or reimburse the repair costs paid by the Organiser or the other Participants, the Participant concerned shall satisfy the demand.

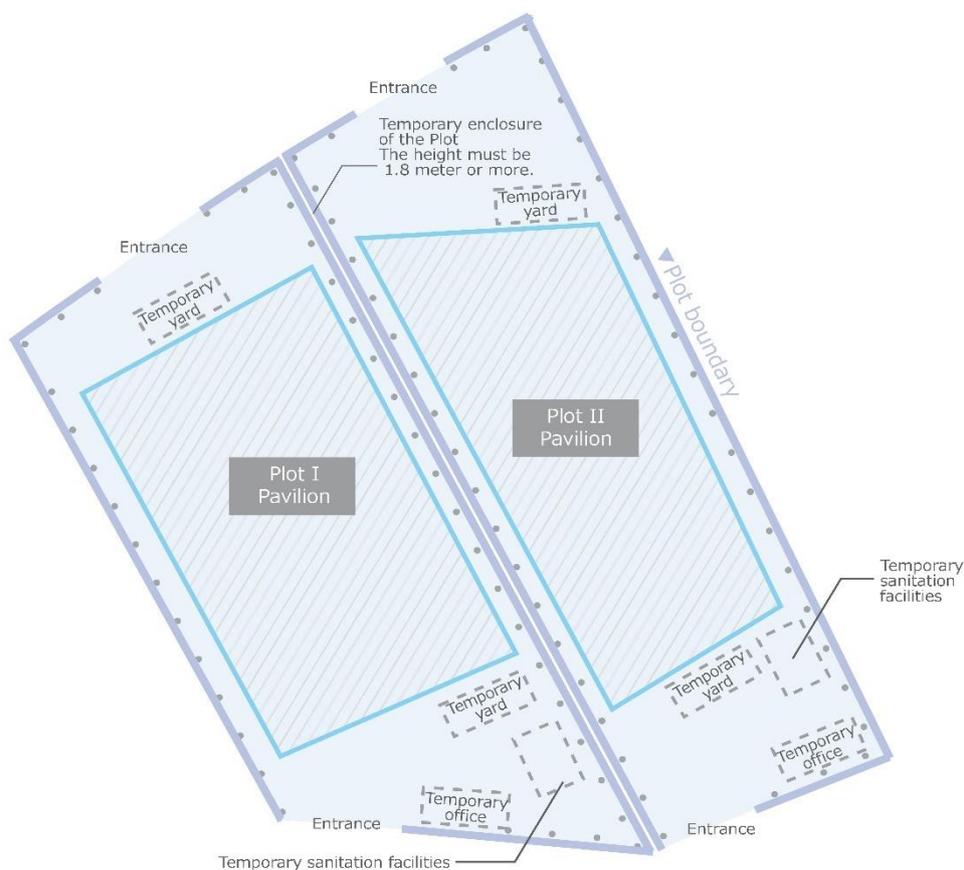
C-031 Participants shall consider their construction work plan based on the ground information provided by the Organiser, taking into account the fact that Yumeshima Island, which is the planned venue of the Expo, is reclaimed land and consolidation settlement is expected.

G-003 It is desirable that Participants, in executing their construction work, strive to level the amount of construction work taking into account the number of construction vehicles and the impact of noise and vibration.

2-2-1. Plot Boundary and Temporary Enclosure

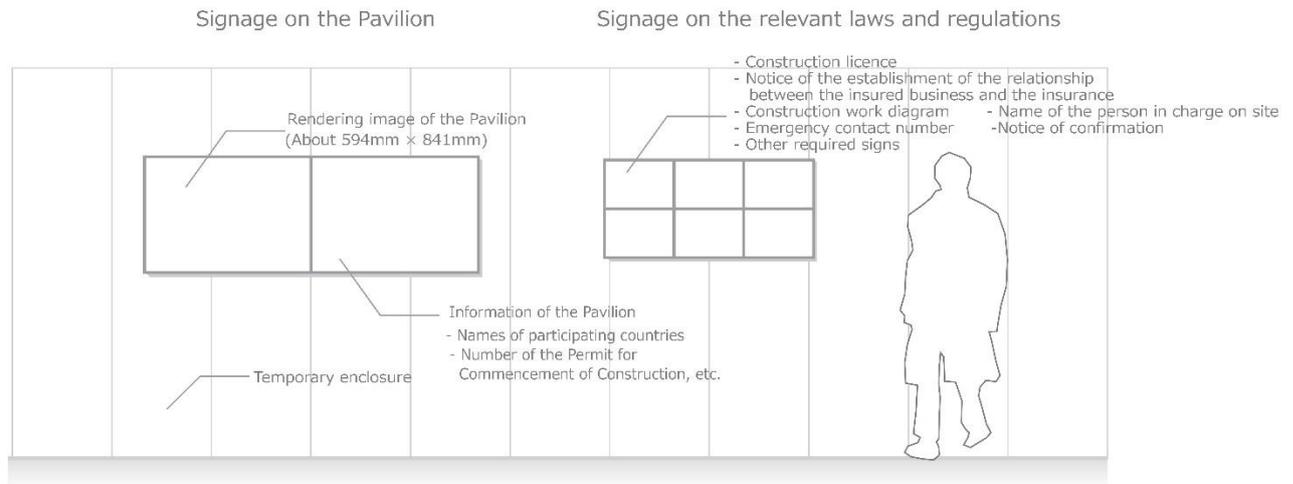
The Organiser will establish Plot boundaries on Plot Sheets by the date when Plots are handed over to Participants.

Figure 2.3 Overview of Installation Plan for Temporary Construction Facilities Within Plots such as Temporary Enclosure



- C-032** Participants shall conduct at their own expense surveying of the Plot using the information of control points provided by the Organiser after the handing over of allotted Plots from the Organiser.
- C-033** Participants shall erect solid and continuous temporary enclosure with the height of 1.8 m or more at the boundary of their Plot. Posts and other parts of the temporary enclosure shall be located within their Plot. If there are adjoining Plots, temporary enclosures shall be erected on both sides.
- C-034** In addition, Participants shall put two or more entrances (with sliding doors or doors opening inward) that are connected to passageways of the Expo Site (FoH and BoH) in place on the temporary enclosure of their Plot. Participants shall put security guards in place to ensure smooth traffic as a security measure for the entry/exit of vehicles, etc. to/from their Plot.
- C-035** Participants shall appropriately maintain and manage the temporary enclosure and entrances by regularly conducting inspection, cleaning, and maintenance.
- C-036** Participants shall appropriately maintain and manage temporary construction facilities within their Plot, including the temporary enclosure, and ensure that they remain safe in the wake of disasters such as typhoons and earthquakes.
- C-037** Participants shall install construction signage on the temporary enclosure in their Plot at a location close to each entrance and ensure that these signages are always clearly readable. Participants shall present items required by the Organiser on the construction signages.

Figure 2.4 Example of Construction Signage



C-038 Participants must not put any display relating to advertisement on the temporary enclosure unless they have obtained the Organiser's permit in advance.

2-2-2. Shared Temporary Construction Facilities within Plot

C-039 Participants shall establish temporary construction facilities such as a construction site office and rest areas for workers within their Plot during the construction work.

2-2-3. Schematic Installation Plan for Temporary Construction Facilities within Plot

C-040 Participants shall prepare a schematic installation plan for temporary construction facilities within their Plot and submit it with the construction work plan to the Organiser via the online portal for the Official Participants. The following are items that should be included in the schematic installation plan for temporary construction facilities:

- Specific location of the Plot and the coordinate of Plot boundaries
- Location and specification of the temporary enclosure of the Plot
- Locations and specification of the entrances of the Plot
- Planned locations of construction machine/vehicles
- Plan for outer scaffolding
- Route for construction vehicles and plans for passageways within the Plot
- Temporary construction facilities such as a construction site office, rest areas for workers, and toilets
- Building material yards, electrical equipment for construction, water supply equipment (tanks) for construction
- Waste storage (waste separation spaces, the warehouse of waste containers, etc.)

G-004 It is desirable that Participants secure parking spaces for construction vehicles within their Plot if possible. In principle, parking on passageways within the Expo Site but outside of Participants' Plot is not allowed.

Therefore, if it is necessary, Participants are expected to obtain the General Contractor's permit to use waiting spaces for construction vehicles and effectively use the designated space.

2-2-4. Temporary Infrastructure within Plot during Construction Work

- C-041** Participants shall make necessary arrangement for temporary infrastructure after coordinating with the General Contractor until the Organiser completes installing infrastructure such as a water supply system, electrical equipment and sewer pipes into each Plot. In addition, the Organiser plans to set up several water supply locations in the Expo site as temporary infrastructure that can be shared, and Participants will be able to procure water required for the Plot handed over from the supply locations in the construction period. The timing of the commencement of infrastructure services established by the Organiser is planned to be announced to Participants by the Organiser via the online portal for the Official Participants.
- C-042** Participants shall bear the costs for temporary infrastructure such as a water supply system, electrical equipment and sewer pipes until infrastructure services provided by the Organiser are commenced. In addition, Participants shall pay electricity bills to the Organiser once the services of official electrical equipment commence.
- C-043** Participants shall collect and treat sewage appropriately in compliance with the Laws and Regulations as well as the rules established by the Organiser.
- C-044** Participants shall give due consideration to the safety of a power generator in its installation to prevent fires and other disasters.

2-2-5. Transportation and Storage of Building Materials

- C-045** Participants shall transport building materials required for their construction work into their Plot in compliance with the operation rules established by the Organiser and appropriately store them under their own responsibility.
- C-046** Participants shall rent vehicles and construction machines that are necessary for the transportation of building materials, etc. into their Plot themselves and take responsibility for the transportation and storage of building materials and other items.
- C-047** When Participants plan to have transportation vehicles come to/go out of the Expo Site, they need to work with the General Contractor to make necessary coordination taking into account other Participants' schedule. Therefore, Participants shall report the number and scheduled timing of vehicles which come to/go out of the Site, pursuant to the rules established by the Organiser.
- C-048** If the Organiser demands to do so, Participants shall have transportation vehicles go through security check before they are allowed to come into the Expo Site. Participants shall plan their work schedule taking into account the time necessary for such security check. Please note that the time required for the security check depends on the types and contents of goods loaded on each vehicle.
- C-049** Participants shall unload transported building materials within their Plot. If there is not enough space within the Plot, Participants shall submit to the General Contractor in advance an application for

unloading materials outside the Plot, obtain its permit, and unload building materials at a passageway, etc. that adjoin their Plot.

2-2-6. Management and Disposal of Waste and Construction Generated Soil

- C-050** Participants shall separate wastes generated from the construction work within their Plot and appropriately store them so that they will not be scattered out of the Plot by rain and wind.
- C-051** Participants shall dispose wastes generated from the construction work in compliance with the Laws and Regulations and strive to curb and recycle such wastes.
- C-052** Participants shall treat sludge generated from piling work, etc. as industrial waste and appropriately handle it in compliance with the Laws and Regulations such as recycling it.
- C-053** Participants shall separate wastes generated during the construction work by type within their Plot as much as possible and strive to recycle them into recycled aggregate, roadbed material, or recycled chips by handing them over to intermediate waste disposal companies.
- C-054** Participants and their contractors shall achieve the following mixed construction waste-related objectives set out in the “Construction Recycling Promotion Plan 2020” (September, 2020, the Ministry of Land, Infrastructure, Transport and Tourism).

Item	Indicator	Goal for 2024
Asphalt/concrete lumps	Recycling rate	99% or higher
Concrete lumps	Recycling rate	99% or higher
Construction generated wood	Recycling/reduction rate	97% or higher
Construction generated sludge	Recycling/reduction rate	95% or higher
Mixed construction waste	Discharge rate	3.0% or lower
Overall construction waste	Recycling/reduction rate	98% or higher

- C-055** Participants shall strive not to generate waste by simplifying packing materials and try to reduce waste by separating various types of wastes with separation containers.
- C-056** Participants shall arrange regular waste collection.
- C-057** Construction generated soil from drilling shall not be carried out of Yumeshima Island.
Regarding construction generated soil, Participants shall follow the procedures required by the Soil Contamination Countermeasures Act and transport them to the places designated by the Organiser within the Expo Site. In doing so, Participants shall keep record of its amount with soil volume measurement equipment. The soil volume measurement equipment will be installed by the Organiser. For the procedure, please refer to “the list of necessary notifications to respective government bodies at the time of construction work” described in the end of this Guidelines.
- C-058** With regard to costs to dispose excess soil, Participants shall bear the proportion of the costs determined by the Organiser separately.

- C-059** In compliance with the Soil Contamination Countermeasures Act, Participants shall strive to prevent soil from scattered by taking appropriate measures, such as sprinkling water, when they drill their Plot.
- C-060** Participants shall avoid carrying out construction work as much as possible in case of heavy rain not to generate muddy water.
- C-061** Drainage during the construction work shall be appropriately neutralized and disposed into places instructed by the Organiser in Water World of the Expo Site.

2-2-7. Use of Construction Machine

- C-062** When Participants use construction machine such as cranes in their construction work and coordination with neighbouring Plots is required, the said Participants and their contractors shall report matters to be coordinated to the General Contractor and obtain its approval.
- C-063** Participants must not handle the jib, equipment, built-in gear, suspended loads of cranes above the adjoining Plots or other handling areas (in a suspended state) without the approval of the General Contractor.
- C-064** Participants shall, in executing specified construction work in which construction machine is used, submit an implementation notification of specified construction work pursuant to the Noise Regulation Act, the Vibration Regulation Act, and the Osaka Prefectural Ordinance on Maintenance of Living Conditions.
- C-065** Participants shall proactively use low-emission construction machine designated by the Ministry of Land, Infrastructure, Transport and Tourism in terms of construction machine.
- C-066** Participants shall proactively use low-noise and low-vibration construction machine designated by the Ministry of Land, Infrastructure, Transport and Tourism in terms of construction machine.
- C-067** Participants shall strive to reduce exhaust emissions and mitigate noise and vibration by preventing unnecessary idling of engines and avoiding simultaneous operation as much as possible when using construction machine.
- G-005** It is desirable that Participants use construction vehicles/machine that are ran by electricity, a fuel cell, environmentally friendly fuels such as biofuels or hybrid technology, etc. to the extent possible.

2-2-8. Hours When Construction Work May Be Carried Out

As a rule, construction work may be carried out from 8:00 to 18:00 within the Expo Site. If there is a specific reason in developing the Expo Site or an emergency, the Organiser may order the suspension of construction work within the Site or the closure of the Site, or instruct relevant parties to leave the Site. In that case, Participants shall follow the order.

- C-068** In principle, construction work at night or on weekends and holidays is prohibited. If construction work need to be carried out at such hours, Participants shall obtain the approval of the Organiser in advance.
- C-069** When carrying our nighttime work, Participants shall try to minimize such work while appropriately taking care of noise and other nuisances, and mitigate any impact on fauna and flora around the planned Expo Site as much as possible by adopting appropriate shading hood and placing lighting equipment at right places.

2-3. Security During Construction Work

The Organiser will implement security control in accordance with the progress of the construction work of the entire Expo Site. If security control measures are updated, their details are planned to be announced to Participants via the online portal for the Official Participants.

2-3-1. Responsibility for Security Measures

The Organiser will manage access to the Expo Site and traffic therein and issue admission/certificates of vehicle traffic permit, etc. valid during the construction work. Participants shall bear responsibility for the loss or damage of valuables. The Organiser will not compensate any loss or damage.

- C-070** Participants shall always secure emergency route to their plot without conditions so that the Organiser can immediately respond to any emergency such as fire.
- C-071** If emergencies such as fire and an accident during construction work occur, Participants shall immediately report them to the Organiser and take emergency response measures. For the details of communication/reporting at the time of emergencies, please refer to Chapter 7.
- C-072** Participants shall prohibit construction personnel from unnecessarily entering into other places than their Plot.
- G-006** It is desirable that Participants implement security measures such as putting surveillance guards in place and recording the entry/exit of construction personnel to/from their Plot as well as work done in order to protect buildings, equipment and other asset within their Plot. The Organiser will not protect the assets of Participants, and will never compensate loss or damage if any problems concerning such assets arise.
- G-007** It is desirable that Participants manage important facilities, EPS, switchboards, control panels in their Pavilion and basins within their Plot by installing locking devices.
- G-008** It is desirable that Participants minimize the exposure of cables in their Pavilion by using electrical/communication wire conduits so that the cables are not visible from outside.

2-3-2. Location of Security Check

The Organiser will carry out security checks on entering/exiting vehicles and construction personnel at the entrances of the Expo Site.

- C-073** The Organiser will put gate security guards in place to check certificates of vehicle traffic permit, admission passes and entry permits discussed later and perform other tasks. Participants shall reimburse security check-related costs to the Organiser or the General Contractor.

2-3-3. Certificate (Pass) of Vehicle Traffic Permit

- C-074** All the vehicles that enter into the Site shall present a certificate of vehicle traffic permit issued by the Organiser by placing it on the windshield. Participants shall apply for the certificates of vehicle traffic permit to the Organiser via the online portal for the Official Participants at least 3 days before the vehicle concerned arrives at the Site.

- C-075** Regarding the vehicles of visitors, a certificate of vehicle traffic permit and an entry permit will be issued at guard stations that are planned to be established near the entrance gates of the Expo Site. The vehicles of visitors shall be parked in the spaces within the designated work-support yard.
- C-076** Participants and their contractors shall strictly comply with the traffic rules established by the Organiser that are applicable within the Site. The Organiser may impose restrictive measures on those who violate such traffic rules, including the revocation of vehicle traffic permits.

2-3-4. Admission Pass

- C-077** Construction personnel who enter to the Expo Site, including Participants and their contractors, shall obtain admission passes issued by the Organiser. All the construction personnel shall always carry their admission pass.
- C-078** Participants shall apply for the admission passes for construction personnel to the Organiser via the online portal for the Official Participants. The following are required documents to be attached:
- Health insurance card (national health insurance and social insurance)
 - Copy of passport (only for those with foreign nationality)
 - Copy of work visa valid in Japan (only for those with foreign nationality)
- C-079** Participants shall apply for the admission passes to the Organiser via the online portal for the Official Participants at least one day before the relevant construction personnel arrive at the Expo Site. Please note that if Participants want to apply for more than ten admission passes at a time, in order to ensure efficient issuance procedures, the application shall be made at least three days before the relevant personnel arrive at the Site.

2-3-5. Entry Permit (Temporary Permit)

- C-080** All the visitors shall obtain an entry permit when entering into the Expo Site. An entry permit will be issued at guard stations that are planned to be established near the entrance gates of the Expo Site after a security guard confirms the visitor's official ID (driver's license, etc.), destination, and whether the visitor comes by car (if a vehicle traffic permit is necessary), etc.
- C-081** Participants and their contractors shall pick up and drop off the visitor between the work-support yard and the destination.

2-4. Permit for Work Outside of Plot

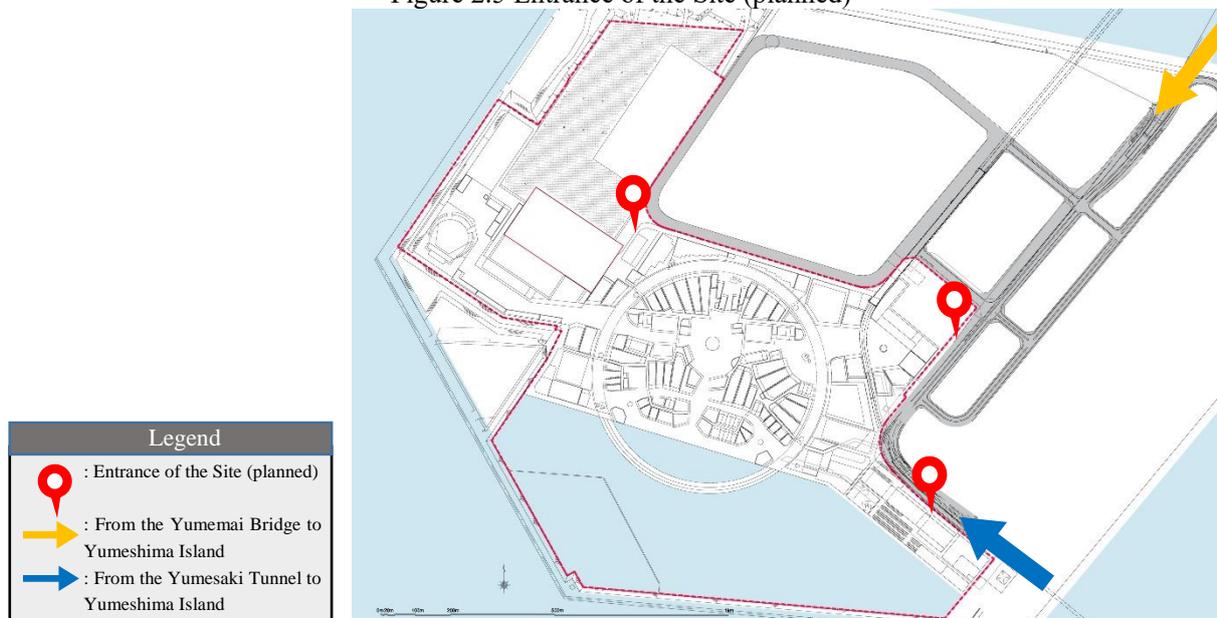
- C-082** When temporarily carrying out construction work outside of their Plots, Participants shall submit a work-outside-of-the-Plot application to the General Contractor in advance and obtain its permit. The said work-outside-of-the-Plot application shall be accompanied by a work-outside-of-the-Plot plan that describes the summary of the work (such as its timing and what will be done).
- C-083** As the General Contractor must coordinate work outside of Plots of different Participants to issue a permit for such work, Participants shall submit their application as early as possible taking into account the

schedule of their work outside of the Plot. Participants shall comply with the rules established by the Organiser in terms of the timing of application.

2-5. Roads and Traffic Control

In order to ensure safe and timely transportation, the Organiser will implement traffic control in all the areas within the Expo Site.

Figure 2.5 Entrance of the Site (planned)



2-5-1. Access to the Expo Site

Only vehicles may enter into the Expo Site.

- C-084** Participants shall appropriately plan the vehicle routes and use expressways as much as possible so that there would be least impact of work-related movement of their vehicles on the surrounding area, including Yumeshima Island on which the Expo Site is planned.
- C-085** The Organiser plans to introduce commuter buses that may be used by construction personnel in order to reduce the number of vehicles that go into/out of the Site. The period and way to operate such commuter buses are to be determined. Once such commuter buses are ready, Participants shall ensure that their construction personnel use them as a general rule. Participants shall reimburse commuter buses-related costs to the Organiser or the General Contractor.
- C-086** Regarding access to the Expo Site and transportation, Participants shall comply with road traffic-related Laws and Regulations in Japan, including restrictions on traffic within Yumeshima Island, and follow the instructions of traffic/road administrators.
- C-087** Regarding the delivery of building materials and other items, Participants shall consider appropriate hours for construction vehicles to travel the designated routes, ensure that construction vehicles do not

obstruct pedestrians, ensure that drivers drive in an appropriate manner, and control the operation of the Construction-related Vehicles.

- C-088** When planning transportation to the Expo Site, Participants shall consider traffic conditions in the surrounding areas, including Yumeshima Island that is the planned Expo Site. The Organiser plans to provide Participants with information of traffic conditions in the areas surrounding the Expo Site via the online portal for the Official Participants.
- C-089** Participants shall optimise the schedule of delivery/carrying out of building materials, products, etc. by ordering an appropriate amount of materials, in order to reduce the number of vehicles.
- C-090** Commuter vehicles, vehicles that transport building materials, and other vehicles shall strive to avoid unnecessary idling of engines, reduce exhaust emissions, and mitigate noise.
- C-091** Vehicles that enter into the Site, in principle, must not bring in prohibited goods, such as animals and plants, alcohol, medicine not authorised in Japan, illegal drugs, explosives, etc.

Letters and packages may be transported to each Plot using the designated routes once delivery persons obtain an entry permit at guard stations established by the Organiser near the entrance gates of the Site.

2-5-2. Entrance of Site

The entrances of the Site may be changed for operational reasons. If the entrances of the Site are changed, it will be announced via Participant Portal in advance.

2-5-3. Passageway within Site

The Organiser will secure routes for construction vehicles to the Plots of Participants within the Expo Site. Available Routes for construction vehicles are adjusted in accordance with the progress of the construction work of facilities relating to common areas within the Site and that of infrastructure and announced them to Participants via the Communication and Coordination Council. The Organiser plans to asphalt the routes for construction vehicles after the completion of infrastructure work.

- C-092** Participants must not put building materials, construction vehicles, et. on passageways within the Site without the permit of the Organiser.
- C-093** When Participants need to temporarily use part of passageways within the Site for their construction work, they shall submit an application to the General Contractor in advance and obtain its permit as set out in “2-4. Permit for Work Outside of Plot.”
- C-094** Participants must not have construction vehicles and other vehicles park or wait on passageways within the Site. The Organiser plans to arrange parking lots for commuter vehicles and waiting areas for construction vehicles within the work-support yards in accordance with the progress of the construction work of facilities relating to common areas within the Site and that of infrastructure and announced to Participants via the Communication and Coordination Council. Participants shall comply with the usage rules established by the Organiser when they use such areas.

2-5-4. Traffic Signage and Lighting Within Site

The Organiser will ensure the security of traffic within the Site by put traffic signage and lighting on passageways for construction appropriately.

C-095 When lighting for construction is required in their Plot, Participants shall put lighting equipment in place at places necessary for their construction work in an appropriate manner and maintain it.

2-5-5. Traffic Control within Site

Participants and their contractors shall comply with road traffic-related Laws and Regulations in Japan and follow the instructions of the Organiser on the roads within the Site too.

C-096 Participants and their contractors shall comply with road traffic-related Laws and Regulations in Japan, such as limiting the speed of their vehicles within the Site, using seatbelt while driving, and avoiding using mobile devices while driving. Please note that the maximum speed allowed on the passageways within the Site plans to be set at 20 km/h but it may be different at certain places. In addition, to ensure the safe passage of vehicles within the Site, it is planned to introduce the Organiser-established traffic rules and traffic signage.

C-097 Construction vehicles shall go out from the Site to public roads only after washing their tires with tire washing equipment in order not to pollute public roads and to prevent dusts from scattering.

C-098 The tire washing equipment will be installed by the Organiser. Participants shall, if they use the tire washing equipment, pay their shares of its installation costs to the Organiser or the General Contractor.

2-6. Security Measures When Constructing Concealed Spaces

C-099 Upon the Organiser's request, participants may have inspection of concealed spaces before they are sealed off during the construction work. In addition, the Organiser may request that it inspect equipment or materials with a concealed space before Participants bring them into the Site. Participants shall plan their work schedule taking into account the possibility of such inspection. Please note that the time required for the inspection depends on the types and contents of goods loaded on each vehicle.

2-7. Construction Progress Report

C-100 Participants shall submit a construction progress report to the Organiser every month via the online portal for the Official Participants. The construction progress report shall include the following information:

- Overall work schedule (which shall clearly show the value of work done and the progress)
- Work schedule for the following month
- Work progress report for the current month
- Pictures of work progress for the current month (including pictures of fixed-point observations)
- Implementation status of health and safety management (the total number of workers / the total number of working hours / presence or absence of accidents, etc.)
- Environment-related data report

- Report on important issues (situations concerning an accident, etc.) relating to the Organiser and third parties
- Report on the progress of actions to correct non-conformance (if a non-conformance report has been issued)
- Other performance report required by the Organiser

C-101 Participants shall submit a construction progress report on the date designated by the Organiser every month via the online portal for the Official Participants, starting at the planning phase.

2-7-1. Confirmation of Environment-related Data and Report to the Organiser

C-102 Participants shall have their construction supervisor or contractors collect environment-related data every month. If there is any issue, Participants shall clarify the characteristics of the issue and report it, along with proposed solution, to the Organiser. The format of the environment-related data report is planned to be made available via the online portal for the Official Participants. The following are environment-related data that Participants shall collect every month:

- Construction-related Vehicles (number, the time slot of operation, routes)
- Construction machine vehicle (number and hours to operate)
- Amount of waste generated (disposed) (the recycle rate of waste and the destination of waste disposed)
- Amount of excess soil generated (disposed)
- Amount of sludge generated (disposed)
- Amount of human waste generated (disposed)
- Amount of electricity used
- Amount of service water used
- Amount of sewage used (amount to be treated)
- Types and amounts of fuel used in the venue (construction machine / power generators)

C-103 Participants shall conduct regular inspection to ensure that their construction supervisor or contractors take measures to protect the environment in accordance with “Chapter 6: Sustainability Efforts” herein.

2-8. Documents to be Submitted

The following are documents concerning this Chapter that the Organiser requires Participants to submit. The documents are to be submitted to the Organiser via the online portal for the Official Participants. Designated formats for documents to be submitted will be made available on the online portal for the Official Participants.

Names of documents to be submitted:

- Construction work plan (2-2)
- Schematic installation plan for temporary construction (2-2-3)
- [If necessary] Application form for outside-of-the-Plot unloading (2-2-5)
- [If necessary] Application form for the use and coordination of construction machine (2-2-7)
- Application form for construction at night and on weekends/holidays (2-2-8)
- Application form for a certificate of vehicle traffic permit (2-3-3)

- Application form for an admission pass (2-3-4)
- Application form for an entry permit (2-3-5)
- Work-outside-of-the-Plot application form (2-4)
- Construction progress report (2-7)
- Environment-related data report (2-7-1)

2-9. Reminders of Standards Referred to in This Chapter (Supplementary Information)

- Building Standards Act
- Noise Regulation Act
- Vibration Regulation Act
- Osaka Prefectural Ordinance on Maintenance of Living Conditions
- Air Pollution Control Act
- Construction Material Recycling Act
- Construction Recycling Promotion Plan 2020
- Information of Yumeshima-related construction work
 - Yumeshima Island Development Project Coordination Council:
<https://www.city.osaka.lg.jp/kensetsu/page/0000478281.html>
 - Communication Council for Smooth Progress of the Expo Project at Yumeshima Island:
<https://www.city.osaka.lg.jp/kensetsu/page/0000506669.html>

3. Requirements for Fire Prevention and Security

This Chapter defines requirements for fire prevention and security. Participants shall comply with the rules set out in this Chapter as well as the relevant Laws and Regulations. Participants shall take responsibility for the security of their Pavilions. The Organiser will not accept any responsibility for the security of the Participants' Pavilions. Participants shall bear costs for fire prevention and security. Participants shall consider the requirements defined in this Chapter when they design their Pavilion.

3-1. Fire Fighting Equipment, etc.

In Pavilions that are set up in the allocated Exhibition Spaces, Participants shall install and maintain Fire Fighting Equipment, etc, pursuant to technical standards defined by the relevant Laws and Regulations in order to provide the Pavilions with necessary fire-fighting functions, such as fire extinction, alarm, evacuation, and follow procedures required by the Fire Department (please refer to the list of the relevant Laws and Regulations).

3-1-1. Fire Fighting Equipment

- C-104** Participants must install outdoor fireplug equipment that is able to cover their entire building (except water source and pressurized water supply devices). However, this does not apply if it is confirmed through consultation with the Fire Department that installation is not necessary.
- Installation must comply with standards defined by the Laws and Regulations and it shall be as follows.
 - Water source may be taken from a water supply system (0.3 MPa, the minimum pressure in an emergency) provided by the Organiser at the Plot boundary.
 - Power sources for pilot lamps can be solar batteries (these lamps must operate 30 hours or more when fully charged).
 - If the second floor must be covered, taking into account loss of water lifted, the pressure (0.25 MPa or more) and the amount (350ℓ per minute or more) of discharged water at the nuzzle tip must be secured in the whole second floor, pursuant to the standards defined in the Laws and Regulations. If it cannot be secured, it can be planned to install a package fire extinguishing or indoor fire hydrant to cover the floor based on the installation standard. The piping of the indoor fire hydrant can also be used as that of an outdoor fire hydrant.

3-1-2. Fire Alarm Equipment

The Organiser will build automated fire alarm equipment within the Expo Site and install basins at location within 0.5 m into the Plots from the Plot boundary lines.

- C-105** Participants must lay piping and ducts that reach the basins the Organiser has installed for connection to the automated fire alarm equipment.
- C-106** Participants must file applications to the Organiser to connect fire alarm equipment that the Participants install within their Pavilions to the automated fire alarm equipment. The Organiser will connect fire alarm equipment on the both ends.

3-1-3. Fire Report Apparatus

- C-107** Participants must install fire report apparatus that conforms to the standards defined by the relevant Laws and Regulations. Please note that telephones or IP telephones that can make emergency calls (119 in Japan) are acceptable alternatives except mobile phones and PHS, etc. Please refer to “Chapter 4: 4.2.6 Telecommunications” for the details of telecommunication infrastructure used by IP telephones.

3-2. Security of Pavilions

3-2-1. Security Cameras

- C-108** Participants must put all the spaces used by general public visitors and all the entrances of their facilities (including entrances for staff) within their Plot under the surveillance of security cameras.
- C-109** The security cameras referred to in the preceding item must be designed to have ability to confirm the safety of visitors. The security cameras must have a function of video recording around the clock or motion-activated recording that is stored in recording apparatus or on the cloud and maintain the record for two weeks or more. Participants shall clarify the location and other information of the security cameras when submitting their Design Plans to the Organiser for its approval.
- C-110** When the Organiser and/or Related Institutions demand that Participants should allow them to watch video recorded by the security cameras or provide them with such video, Participants must comply with their instructions.
- C-111** Participants shall take due care of video recorded by the security cameras in handling it from the privacy protection perspective.

3-2-2. Other Requirements for Safety and Security

- C-112** Participants must configure all the security-related equipment to be supplied with backup electricity from an uninterrupted power supply (UPS) that runs for at least four hours or an UPS that runs for at least 30 minutes accompanied by a power generator to prepare for a power outage.
- G-009** It is desirable that Participants introduce an intrusion detection system in the areas where precious goods are stored or exhibited.
- C-113** If and when the intrusion detection system puts out an alert, Participants must report it to the Organiser. Participants shall take responsibility for insuring their asset and the security thereof.
- C-114** Participants must not establish areas to which anyone other than the Participant concerned cannot enter (hereinafter referred to as Restricted Areas). If a Participant cannot follow the rule in the preceding item, the Participant concerned shall clarify the Restricted Areas when submitting their Design Plans to the Organiser for its approval.
- C-115** Participants shall, when bringing equipment or materials to be installed/used in the Restricted Areas into the Expo Site, obtain the approval of the Organiser in advance.
- C-116** Before a Pavilion with the Restricted Areas referred to in C-114 is closed, the Organiser may have a party it designates carry out inspection on-site or in the manufacturing facilities, etc. of the relevant equipment

and materials. Participants shall follow the Organiser's demand. In such a case, Participants shall bear costs for the inspection.

3-3. Documents to be Submitted

The following are documents concerning this Chapter that the Organiser requires Participants to submit. The documents are to be submitted to the Organiser via the online portal for the Official Participants. Designated formats for documents to be submitted will be made available on the online portal for the Official Participants.

Names of documents to be submitted:

- [If necessary] Application form for the approval of the establishment of Restricted Areas (3-2-2)
- [If necessary] Application form for the approval of bringing equipment or materials into Restricted Areas (3-2-2)

4. Access to Utility Services

Utility services will be provided to all Pavilions before the exposition is held. The Organiser will connect Utilities from the infrastructure supply network to locations approximately 0.5 m into each Participant's Plot. After obtaining relevant approvals from the Organiser, Participants will access the services within their Plots and activate them. The Organiser will notify Participants each time respective Utilities become available.

4-1. Preparation of the infrastructure supply network

The Organiser will provide to Participants Plot Sheets, which include details on Utility allotment as well as details on Utility access such as location, size, level, and materials. Figure 4.1 indicates an example of Utility access points. Please refer also to this Chapter and the online portal for the Official Participants for details on Utility access and to Chapter 2 for details on temporary Utility supply.

- C-117** If the Organiser cannot prepare permanent Utility services by the time Participants need to access them, the Participants must arrange for the temporary Utility services on their own until the permanent Utility services start operating.
- C-118** As explained in the following section, Participants must obtain approvals from the Organiser before accessing Utility services.
- C-119** When accessing Utility services, Participants must request final inspections to the Organiser in written form.

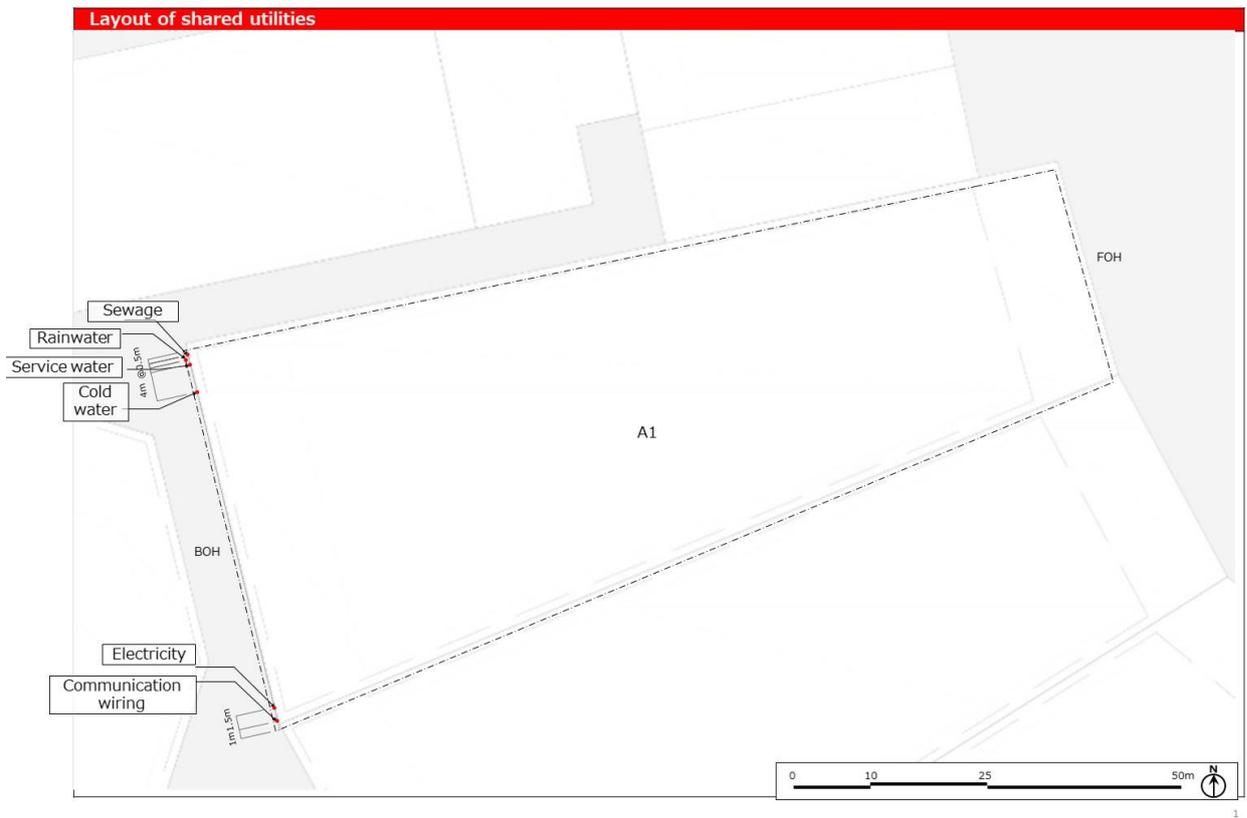
4-2. Requirements for access to Utility services

Before accessing to and activating Utility services within Plots, Participants must confirm the supply period with the Organiser and obtain appropriate approvals.

Participants shall conclude a contract with the Organiser for electricity, water, sewerage (waste water) and chilled water, and a contract with a Utility service vendors for gas and telecommunications. Participants are responsible for paying fee of the connection to the Utility.

- C-120** In the event the Participants' access to or use of Utility services affect the Utility supply network installed by the Organiser, the Participants must bear costs for the effects caused.
- C-121** Participants must cause appointed contractors to access permanent utilities based on the content of applications for Utility service access approvals that the Participants submit to the Organiser.
- C-122** Participants must complete access to permanent utilities in compliance with relevant laws, regulations, and standards provided in this Chapter.

Figure 4.1 Example of Utility access points



4-2-1. Water

The Organiser will install water supply locations within the Venue and extend the water supply network approximately 0.5 m into each Participant's Plot from the Plot boundary line. Participants are to access meter-measured water from equipment that the Organiser installs within the Plots and prepare water supply within their Plots. Water constructions must be carried out in compliance with laws and regulations including the Act on Waterworks. The pressure for supply is as follows;

- a Normal time : 0.15MPa or more at the end of the water pipe
- b Emergency : 0.3MPa or more at the end of the water pipe
(Emergency refers to the use of an outdoor fire hydrant in the event of a fire.)

4-2-2. Electricity

The Organiser will prepare an electricity supply network within the Venue and install above-ground and non-portable transformers or multi-circuit switches. This equipment is internally comprised of two transformers or multiple switches. The supplied electricity will be as follows.

- a Electricity: high voltage (6.6k V) or low voltage (100 V, 200 V)
- b Frequency: 60 Hz

The Organiser will lay pipes at locations within 0.5 m into the Plots from the Plot boundary lines or install basins at location within 1.5 m into the Plots from the Plot boundary lines.

Participants will lay pipes between the pipes or basins that the Organiser prepared within their Plots to the section switches (or relevant equipment).

The Organiser will prepare wiring and connection up to the section switches (or relevant equipment) that the Participants install. The single-phase or three-phase power that can be used by the participants in the pavilion where the Organiser supplies the low voltage electricity is not limited to the example described in the plot sheet, and the load can be divided within the range not exceeding the allocated capacity.

Construction work for electricity is to be carried in compliance with the Act on Electricity Business, technical standards for electric equipment, and other relevant Japanese laws and regulations.

C-123 Participants must file applications to the Organiser to connect high-voltage lines to high-voltage panels that the Participants install within Pavilions or to connect low-voltage lines to low-voltage panels within Pavilions. The Organiser will connect the power system to the high or low-voltage panels.

C-124 The Organiser will provide to Participants certified billing meters for power measurement and transformers. Participants must install them, and after doing so, report to the Organiser. The devices will be provided in January 2024 as of schedule.

C-125 Throughout the Expo period, the maximum amount of electricity that Participants use must be within the power level that the Organiser indicates in Plot Sheets. If the Organiser requests the Participants to report on maximum power levels used, the Participants must do so promptly.

C-126 When receiving high-voltage electricity, Participants must improve power factors so that the lagging power factor at the system connection point is 95% or higher. When receiving low-voltage electricity, Participants must improve power factors so that the lagging power factor at the system connection point is 85% or higher. In either case, Participants must ensure that the power factors do not become leading power factors. If the Organiser requests the Participants to submit calculation documents, the Participants must do so promptly.

C-127 In the following cases, Participants must install necessary adjustment or protection apparatus.

- a When the balance in load between each phase is markedly lacking due to the nature of the load
- b When the voltage or frequency markedly fluctuates due to the nature of the load
- c When the waveform is markedly distorted due to the nature of the load
- d When markedly high frequency or harmonic is generated
- e In other cases equivalent to a, b, c, or d

If the Organiser requests the Participants to submit equipment lists and calculation documents, the Participants must do so promptly.

C-128 When Participants install interconnected power generating equipment, they must file applications to the Organiser before starting the installation work of the power generating equipment, using application forms for approvals of Utility service access. Participants are not permitted to cause reverse power flow to areas outside their Plots.

C-129 Participants must use equipment and materials that meet relevant Japanese standards such as Japanese Industrial Standards (JIS), standards of the Japanese Electrotechnical Committee (JEC), standards of the Japan Electric Manufacturers' Association (JEM), Japanese Cable Makers' Association Standard (JCS), and Japan Electric Association Code (JEAC) as well as provisions in the Act on Electrical Appliance and Material Safety. However, to promote global procurement of equipment and materials, Participants will be permitted to use other equipment and materials that meet IEC (International Electrotechnical Commission) specifications only if the specifications are deemed to be equivalent to or more stringent than Japanese specifications. When using such equipment, if the equipment or materials are not approved by technical standards for electric equipment, the Participants must research how the equipment or materials differ from counterparts that meet Japanese standards and for prior approvals, submit by the time the equipment and materials are used in construction to the Organiser documents indicating that the specifications are equivalent to or more stringent than Japanese specifications, and obtain the approval from the Organiser for use.

4-2-3. Sewage (wastewater)

In the Venue, the Organiser will extend the sewage system network approximately 0.5 m into Participants' Plots from the Plot boundary lines. Participants are to connect their sewage to the equipment that the Organiser installed within their Plots and prepare sewage systems within their Plots. Sewage constructions must be carried out in compliance with laws and regulations including the Act on Sewage.

4-2-4. Sewage (rain water drainage)

In the Venue, the Organiser will extend the rain water drainage system network to areas close to Plot boundary lines (outside of Plots). Participants are to connect their rain water drainage pipes to the equipment that the Organiser installed close to their Plot boundary lines and prepare rain water drainage systems within their Plots.

C-130 When Participants develop systems for rain water storage within their Plots, they shall report the plan and usage to the Organiser and connect to the rain water drainage system network using the rain water basins near Plot boundary lines.

Sewage constructions must be carried out in compliance with laws and regulations including the Act on Sewage.

4-2-5. Gas

The Organiser will not provide a gas supply network. If gas is necessary, Participants are to procure and fund gas by themselves. When using gas, LPG must be used. The Organiser will provide a list of gas sales operators.

C-131 If Participants use gas, they must enter into agreements with gas sales operators. Participants must report to the Organiser the name of the LPG sales operator. Participants must have fire prevention supervisors

develop fire prevention plans, execute fire preventive measures that comply with laws and regulations, and report the content to the Organiser.

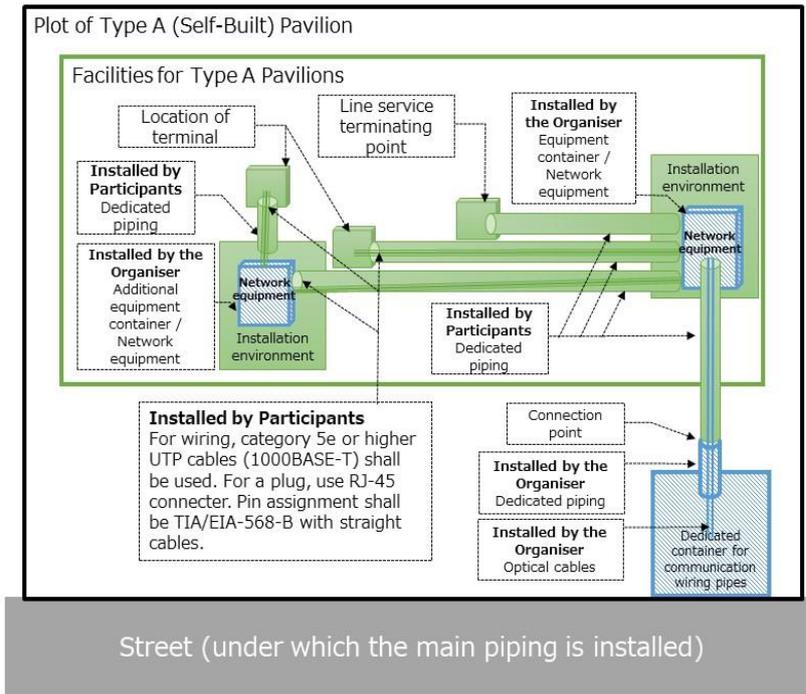
Gas-related constructions must be carried out in compliance with laws and regulations including the Act Concerning the Securing of Safety and the Optimisation of Transaction of Liquefied Petroleum Gas.

4-2-6. Telecommunications

The Organiser will develop an information and telecommunication infrastructure within the Venue. To provide telecommunication services, the Organiser will install specialised pipes at locations (hereinafter, referred to as “Connection Point”) within 0.5 m into Participants' Plots from the Plot boundary lines. The Organiser and telecommunication operators can install optical fibre connections and necessary equipment in the Pavilions after the construction of buildings are completed. Telecommunication-related rules can be obtained from the Organiser.

- C-132** Participants must secure environments that can accommodate equipment storage boxes that the Organiser installs. Instalment requirements are as follows.
- > Instalment space: width 1,100 mm × height 1,000 mm × depth 300 mm (when doors opened: 1,000 mm)
 - > Instalment method: attached to walls (using bolts)
 - > Power source: single-phase 100 V 20 A with ground wire, Form of power outlet: NEMA 5-15R
- C-133** Participants must install specialised pipes between the Connection Points and equipment storage boxes that the Organiser installs.
- C-134** If Participants apply for cable services, they must install specialised pipes from nearby the equipment storage boxes that the Organiser installs to the point where the Participants wish to terminate the cable services. Telecommunication operators are to perform the laying of cable lines.
- C-135** Participants must install specialised pipes and lay cable lines from nearby the equipment storage boxes that the Organiser installs to the terminal instalment point. Terminal instalment points are to comply with telecommunication-related rules. Cable lines comply with 1000BASE-T (IEEE802.3ab) specifications and use UTP cables (unshielded twisted pair cable) that meet category 5e or higher specifications. Plugs must be RJ-45, and pin assignments must be in the form of TIA/EIA-568-B straight joints.
- C-136** If the length of cables from the equipment storage boxes to the terminal instalment point exceeds 100 m, Participants must secure instalment environments that can accommodate additional equipment storage boxes so that all cable line are within 100 m. Instalment environments will be the same as equipment storage boxes and funded and installed by the Organiser. Further, Participants must install specialised pipes and lay cable lines between the equipment storage boxes and additional equipment storage boxes and between additional equipment storage boxes and terminal points to be connected to such boxes. However, these standards do not apply to cable services.
- C-137** Construction work for cable lines must be performed while paying attention to effects that might be caused by electric equipment and preventing problems in bent areas of the cables. The Organiser may request Participants to resolve any telecommunication problems that arise from cable line equipment that the Participants prepare, and the Participants must respond to such requests.

Figure 4.2 Example of construction categories in the telecommunication infrastructure

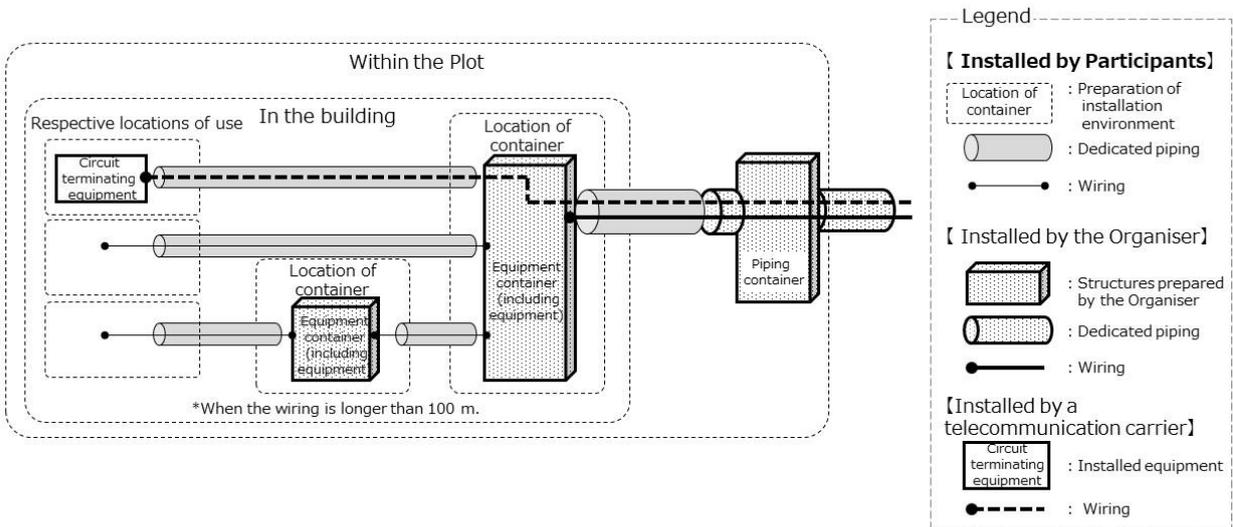


[Participants]

- Shall secure an installation environment for the equipment container the Organiser installs. Installation space: W 1,100 mm x H 1,000 mm x D 300 mm (when the door is open: 1,000 mm)
- Shall install dedicated piping from the connection point to the equipment container the Organiser installed.
- Shall install dedicated piping from the vicinity of the equipment container to the line service terminating point. *The installation of wiring is carried out by an telecommunication carrier.
- When the cable to the location of the terminal is longer than 100 m, secure an installation environment for an additional equipment container within a 100 m-range from any of the wiring. (The container is installed by the Organiser.)
- In addition, install dedicated piping and wiring between the equipment container and additional equipment container as well as between the additional equipment container and the terminal connected to the said container.

[The Organiser]

- Shall install dedicated piping to the point that is 0.5 m inside from the boundary of the Plot allocated to the Participant.
- Shall install the equipment container (and the additional equipment container) within the installation environment the Participant secures.
- For an infrastructure supply network as utility services, install optical cables and establish information network (installation of network equipment) to the equipment container via the dedicated container for communication wiring pipes.



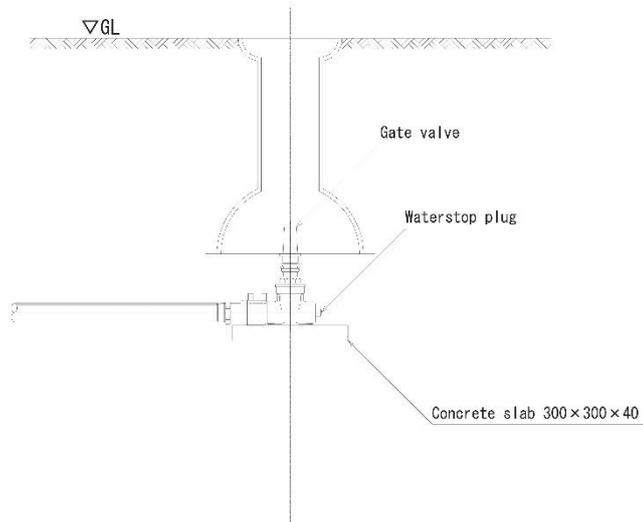
4-2-7. Chilled water

The Organiser will install a chilled water supply network for air conditioning in the Venue. The Organiser will lay pipes in a two-pipe system from the Plot boundary lines to locations within 0.5 m into the Plots and install segment valves. In areas around the segment valves, pressure of the provided supplied water will be approximately 0.2 MPa, and the temperature will be approximately 9°C for supplied chilled water and approximately 19°C for returning

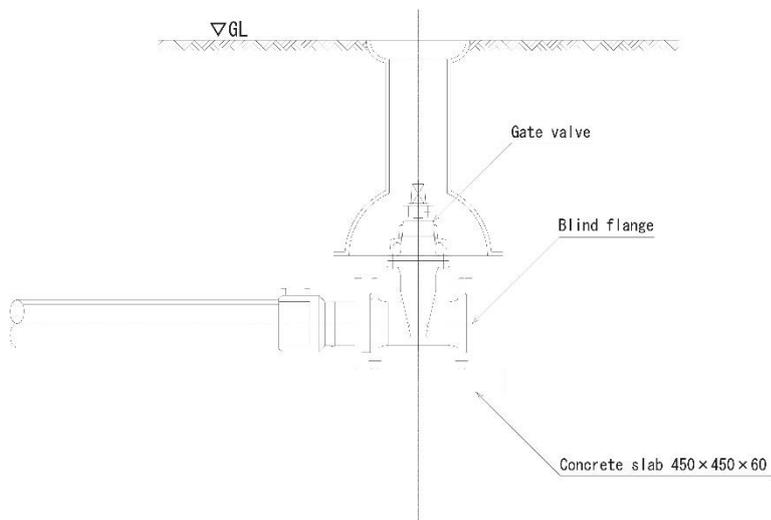
water. The temperature of chilled water supplied at supply locations within the Venue will be 9°C. Chilled water pipes will be laid underground and use segment valves near Plot boundary lines (Figure 4.3). Chilled water pipes will be polythene pipes for water supply, and portions laid underground will not to be thermally insulated. Participant are to connect to such segment valves.

Figure 4.3 Chilled water segment valves near Plot boundary lines

① Details of stopcock box + gate valve (30–50 A) S : NON



② Details of stopcock box + gate valve (75–200 A) S : NON



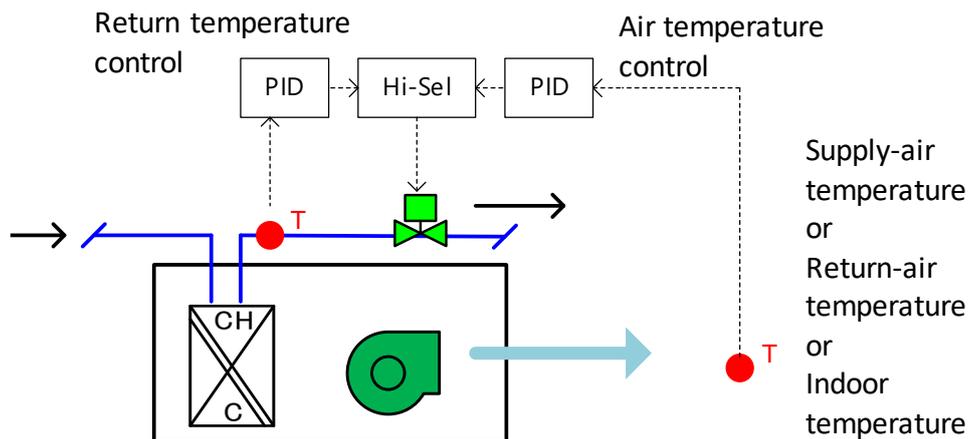
C-138 Participants must install air conditioning equipment that enables a 10°C or more difference in the temperature of supplied and returning chilled water throughout the period of the Expo. All air handling units, fine coil units, and other air conditioning units must be proportionally controlled with two-way

valves. This proportional control will have a temperature control proportional integral derivative (PID) loop for room temperature and a PID loop for the temperature of returning chilled water (return temperature) to secure the difference in temperatures. The two PID outputs (0-100%) by the selection of higher value of the two output will control two-way valves*.

*This control is a function generally implemented in recent direct digital controls (DDC). The following indicates referential model numbers of fan coil unit (FCU) controllers.

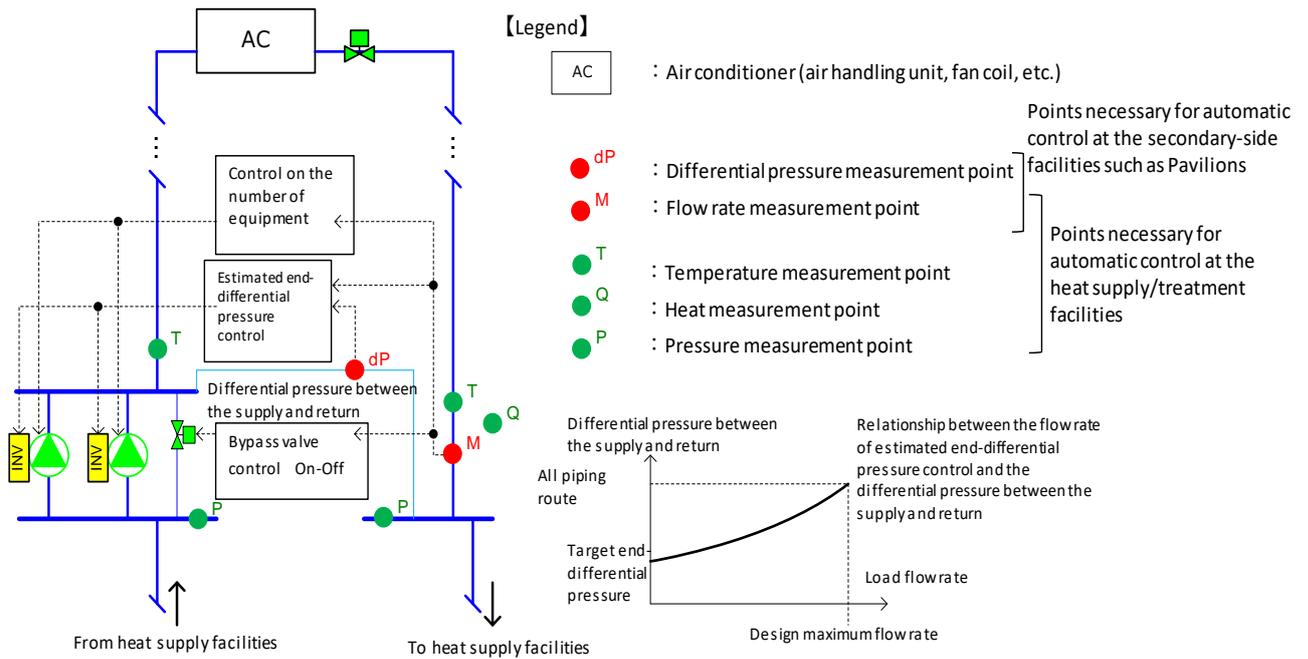
Infilex™ FC Fan Coil Unit Controller, manufactured by Azbil Corporation (model number: WY5205W3000, SC-bus communication / standalone use, power AC100-240V, proportional control with return temperature control)

Figure 4.4 Controls in air conditioning units



- C-139** Participants must install within buildings chilled water secondary pumps that circulate chilled water. The lifting height of chilled water secondary pumps must be secured between the chilled water supply pipes at the Plot boundary lines to returning chilled water pipes at the Plot boundary lines.
- C-140** For secondary chilled water pumps, Participants must install inverters in all constituent units, reduce conveyance power with estimated differential pressure controls and such, and implement inverter variable flow controls that can secure difference in supplied chilled water. Additionally, the lower limit to frequency in inverters must be adjusted to 20% (12 Hz) of electric motor rated frequency (60 Hz). Since the lower limit to frequency will be 20% or less, bypass pipes and bypass valves to prevent elevated temperatures in pumps when the load side is blocked are to be the minimum necessary small diameter and not significantly larger than that (because excessive flow in bypasses cause a reduction in secondary temperature difference).

Figure 4.5 Control of secondary pumps



C-141 If the Organiser requests Participants to submit lists of equipment indicating specifications of air conditioning equipment, instrumentation flow charts, checklist for mandatory design requirements in Table 4.1, and specification tables for selecting chilled water secondary pumps in Table 4.2, the Participants must do so promptly.

Table 4.1 Sample of how to fill in the checklist for mandatory design requirements

Item	Requirement	Check
Inverter instalment	All units have inverters	○
Number of pumps	Divided into multiple units and implements control for the number of units according to load flow.	○
Control requirements	Variable control for differential pressure between supply and return 1) Implements estimated differential pressure controls 2) Minimum rotation rate (rate in comparison to commercial frequency) of the inverter's main body at 20% or less	○ 12 Hz (20%)
	Bypass valve control to prevent heating of pumps 1) Uses on-off controls according to load flow 2) Bypass pipe diameters that correspond with a flow sufficient to suppress the elevation of temperature due to heat caused by each pump operating at minimum frequency *The bypass flow is to be roughly 10% of each pump's rated flow.	○ ○
	All air conditioning units implement two-way valve PI controls	○

Requirements of secondary air conditioning systems	Controls for returning temperatures (Figure 4.4) are implemented as a measure to prevent excessive flow (water volume control) in air conditioning units	○ ○
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Table 4.2 Example of how to fill in specification tables for selecting chilled water secondary pumps

Item	Design value	Unit	Remarks
Maximum load power on design	16011	MJ/h	Maximum load power on design derived from thermal load calculations.
Difference in load temperature on design	10.0	°C	Difference in coil temperature in air conditioning units.
Maximum flow on design	151.4	m ³ /h	Value when maximum load power on design is divided by difference in load temperature on design.
Total resistance in pipe pathways on design	147	kPa	Total resistance in pipe pathways when maximum flow on design flows. Net resistance value.
Target value for differential pressure	40	kPa	Total rated differential pressure of coils and control valves in terminal air conditioning units.
Selected pumps operating-point flow	66.0	m ³ /h	Flow of selected pumps at operating points. As a general rule, value when maximum flow on design is divided by the number of pumps.
Selected pumps operating-point lifting height	225.4	kPa	Lifting height of selected pumps at operating points. Lifting height at operating points of pumps ultimately selected in light of the estimated percentage of allowance in total resistance in pipe pathways on design.
Selected pumps electric motor output	7.5	kW	Rated output of electric motors in selected pumps.
Number of units constituting secondary pumps	3	units	
Inverter minimum frequency	15	Hz	Minimum frequency at 30% or less than commercial frequency.
Inverter maximum frequency	60	Hz	Maximum frequency decided based on trial operation and subsequent adjustments.
Flow in opened bypass valves	6.6	m ³ /h	Roughly 10% of each pump's rated flow

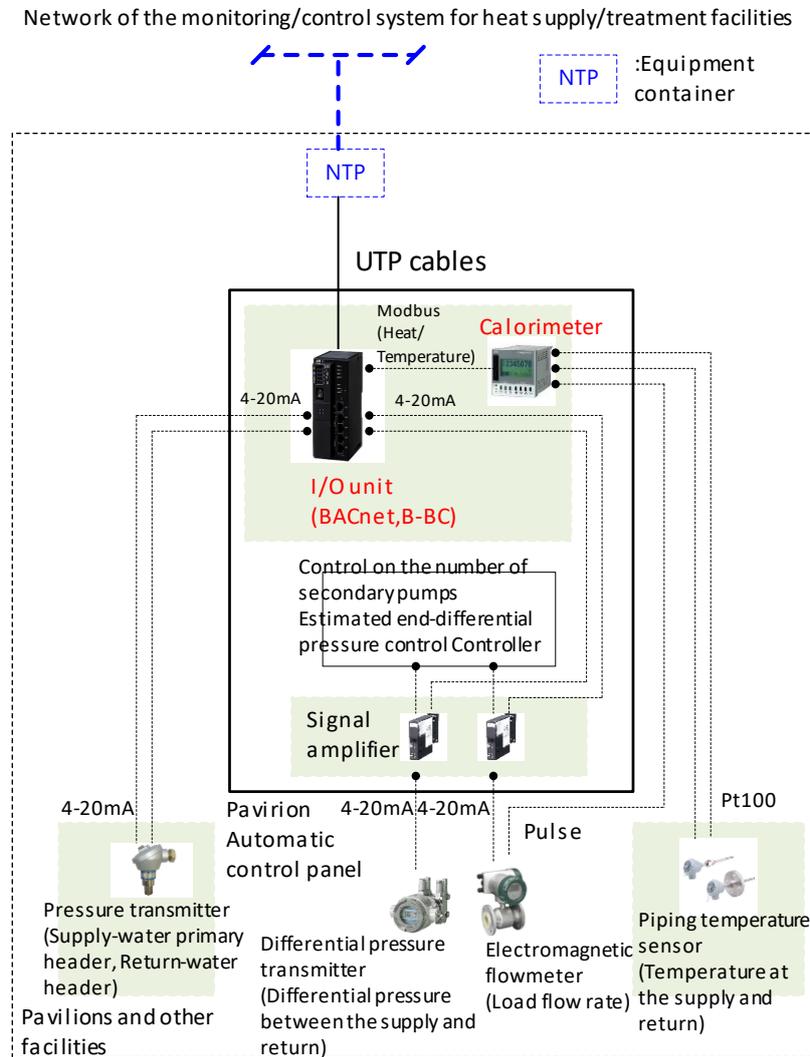
C-142 For chilled water heat management and monitoring and control at the heat supply processing facility, Participants must connect the five measuring points for load heat, load flow, temperature of supplied and returning chilled water, and differential pressure of the supplied and returning chilled water to the central

monitoring system of the heat supply processing facility. The Organiser will provide the following equipment in May 2024 as of schedule.

- 1) Calorimeter
- 2) Signal input unit to feed signals to the central monitoring system in the heat supply facility equipment
- 3) Measurement sensors that are unnecessary for air conditioning control in Pavilions (sensors that the heat supply facility side requires)
 - > Pipe differential temperature sensors for supplied and returning chilled water (Pt100 Ω)
 - > Pressure transmitters for pressure measurement at headers of supplied primary and returning chilled water (4-20 mA)
 - > Signal amplifiers for load flow and differential pressure between supply and return (one for air conditioning control within buildings and another for monitoring points of the heat supply processing facility's central monitoring system)

Participants are to install the above provided items, incorporate them on panels, and perform any necessary pipe and cable constructions. The following diagram shows construction categories.

Figure 4.6 Overview of constructions to be performed on the part of Pavilions
 (Construction for all items indicated with black lines and fonts are to be performed on the part of the Pavilions, highlighted items will be provided.)



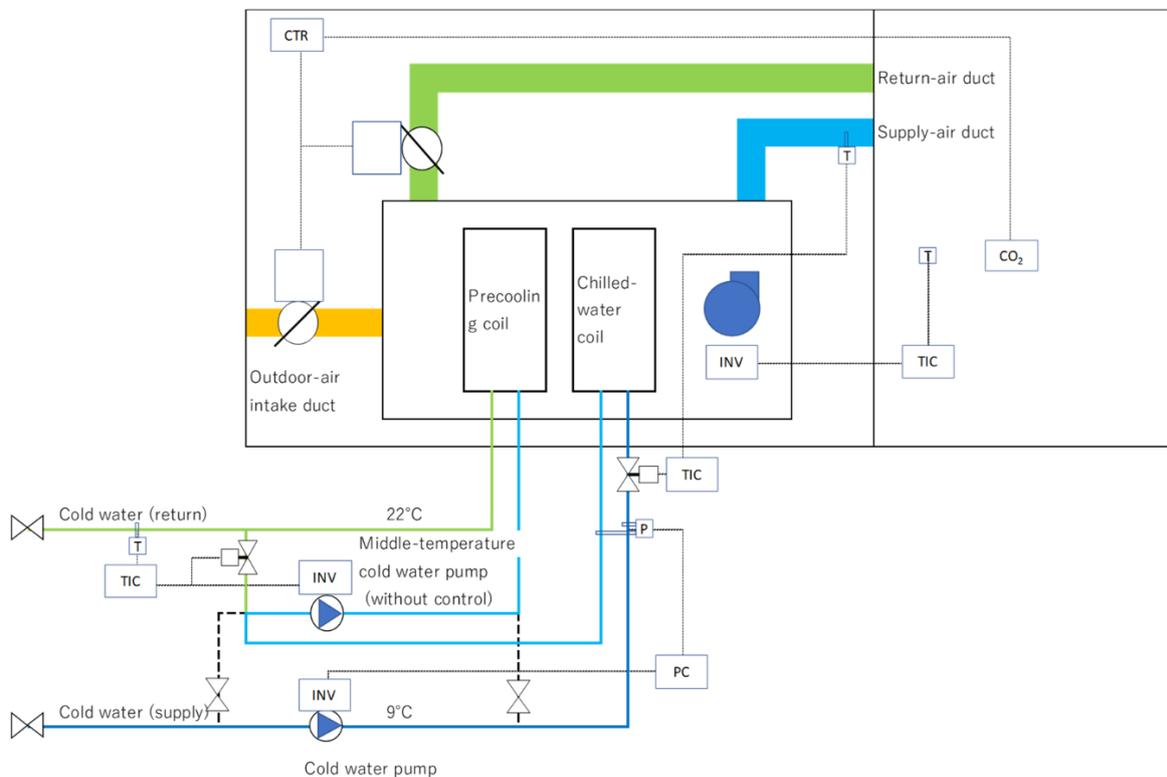
C-143 Specifications of measurement devices, flow meters and differential pressure transmitters, that Participants install are to comply with the following.

- 1) Flow meter guideline
 - > Use magnetic flow meters.
 - > As a general rule, install them horizontally to the ground, and ensure a 5D and 2D straight pipe length for the front flow and back flow sides.
 - > As a general rule, use magnetic flow meters of the same diameter size as pipes.
- 2) Differential pressure transmitter guidelines
 - > Keep the range at 0-400 kPa or less.

C-144 After the valves, pipes must be inclined toward buildings, and air must be released.

- G-010** To improve the efficiency of refrigeration machines of the chilled water supply network for air conditioning that the Organiser installs and to reduce greenhouse gas emissions by reducing chilled water conveyance power, it is preferable if the difference in supplied and returning chilled water is 13°C or more (returning chilled water of 22°C or higher).
- G-011** It is preferable if fresh-air inlet controls based on CO₂ concentration levels (inside rooms or returning air) that can both reduce air conditioning load and secure an appropriate amount of ventilation are implemented.
- G-012** To reduce conveyance power and secure difference in the temperature of supplied chilled water, it is preferable if the minimum frequency of secondary chilled water pump inverters is adjusted to 12 Hz or below.
- G-013** It is preferable if the pipes use plastic materials, such as in polythene water supply pipes or metal reinforced polythene pipes. The following are specific examples of recommended air conditioning systems.
 - 1) Single-duct method in air conditioning units
 - > A method that applies pre-cooling coils in air conditioning units to secure difference in supplied chilled water. Applies medium temperature chilled water pumps and circulates medium temperature chilled water so that the returning chilled water is at 22°C.
 - > When secondary chilled water pumps malfunction, the medium temperature chilled water pumps can be used as backups of secondary chilled water pumps by switching valves.

Figure 4.7 Overview of the single-duct method system in air conditioning units

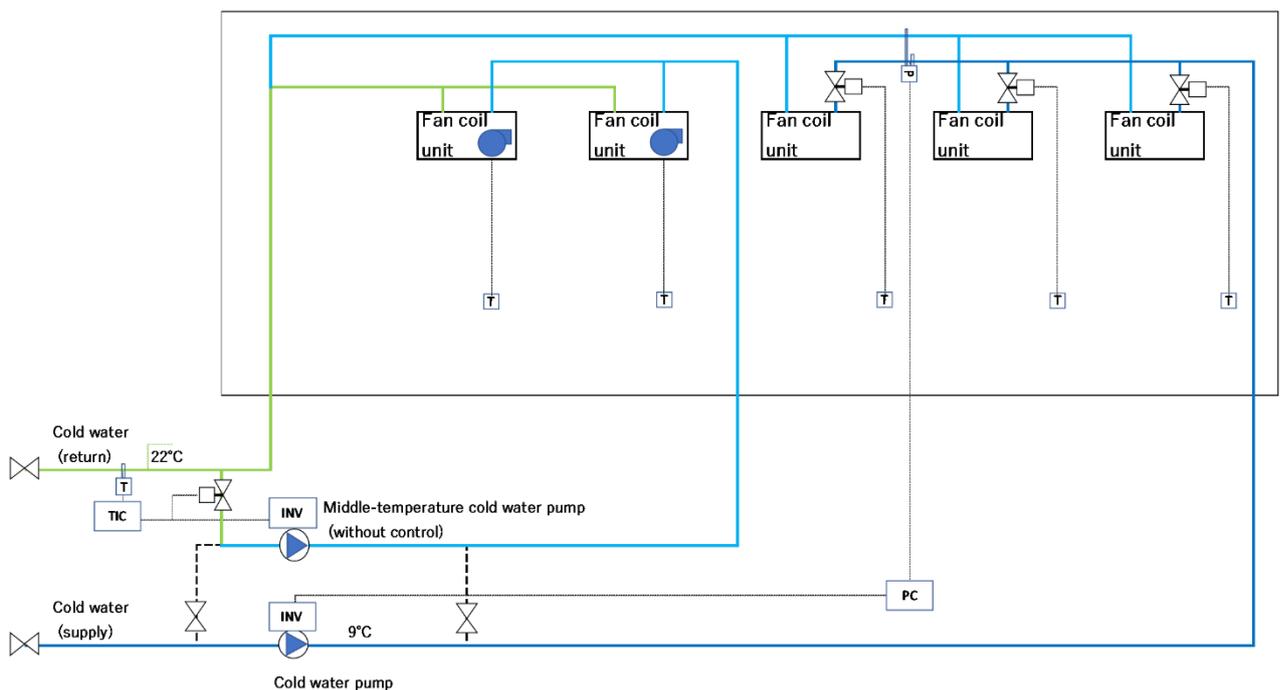


- > Control for chilled water pump inverters: inverter control of chilled water pump variable flow according to differential pressure
- > Control for air supply temperature in air conditioning units: control of chilled water coil two-way valve according to air supply temperature in air conditioning units
- > Control for variable air volume in air conditioning units: fan inverter control in air conditioning units according to room temperature
- > CO₂ concentration level based control for fresh-air inlet volume: proportional control on fresh-air inlet metal ducts and return-air metal ducts according to room CO₂ concentration levels
- > Control for returning chilled water temperature: two-way valve control on circulation of returning chilled water and inverter control on medium temperature chilled water so that the set temperature of returning chilled water is 22°C

2) Fan coil unit method

Fan coil units for two-way valve chilled water control for dehumidification and cooling and difference in supplied chilled water are enabled. Sensible heat processing fan coil units are installed. Difference in supplied chilled water is enabled by circulating medium temperature chilled water in sensible heat fan coil units.

Figure 4.8 Overview of fan coil unit method system



The performance level of sensible heat processing fan coil units (15°C chilled water) is 45% to 60% that of 7°C chilled water fan coil units. The following is referential information from manufacturers.

Table 4.3 Example of chilled water fan coil unit performance

Cooling capacity										
Inlet air temperature 27.0°CDB、19.5°CWB										
Model number	Water volume range		Inlet temperature			Water volume range		Inlet temperature		
			15°C					7°C		
	l/min	Sensible heat kW	Total heat kW	Temperature difference °C	l/min	Sensible heat kW	Total heat kW	Temperature difference °C		
FWJC 12EH	Minimum	8.0	4.65	4.65	8.3	Minimum	8.0	7.76	7.76	13.9
	∫	10.6	5.15	5.15	7.0	∫	10.6	7.94	9.94	10.0
	Maximum	17.5	5.86	5.86	4.8	Maximum	17.5	8.75	11.35	9.3
FWBC 40FH6	Minimum	12.0	6.32	6.37	7.6	Minimum	12.0	9.05	11.24	13.4
	∫	13.7	6.64	6.69	7.0	∫	13.7	10.40	14.75	10.0
	Maximum	23.0	7.49	7.55	4.7	Maximum	23.0	10.59	15.23	9.5

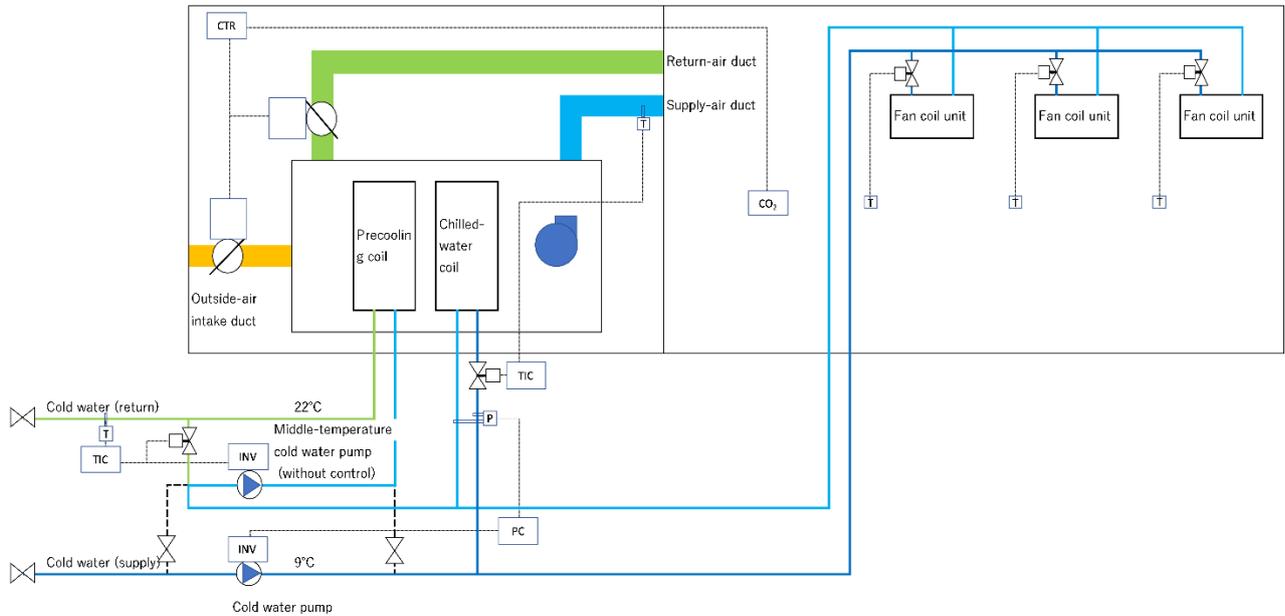
*Calculated on the assumption that a two-pipe system and coils for large temperature difference (10 ° C) are used.

Cooling capacity										
Inlet air temperature 26.0°CDB、18.7°CWB										
Model number	Water volume range		Inlet temperature			Water volume range		Inlet temperature		
			15°C					7°C		
	l/min	Sensible heat kW	Total heat kW	Temperature difference °C	l/min	Sensible heat kW	Total heat kW	Temperature difference °C		
FWJC 12EH	Minimum	8.0	4.27	4.27	7.7	Minimum	8.0	7.35	7.35	13.2
	∫	9.2	4.49	4.49	7.0	∫	13.0	7.55	9.03	10.0
	Maximum	17.5	5.37	5.37	4.4	Maximum	17.5	8.24	10.38	8.5
FWBC 40FH6	Minimum	12.0	5.81	5.85	7.0	Minimum	12.0	8.77	10.54	12.6
	∫	12.1	5.83	5.87	7.0	∫	19.1	9.84	13.28	10.0
	Maximum	23.0	6.88	6.93	4.3	Maximum	23.0	10.21	14.20	8.8

*Calculated on the assumption that a two-pipe system and coils for large temperature difference (10 ° C) are used.

- > Control for chilled water pump inverters: chilled water pump inverter control according to differential pressure
 - > Control for fan coil units: proportional control of fan coil unit two-way valves according to room temperature
 - > Control for sensible heat processing fan coil units: fan coil unit control according to room temperature
 - > Control for returning chilled water temperature: two-way valve control on circulation of returning chilled water and inverter control on medium temperature chilled water so that the set temperature of returning chilled water is 22°C
- 3) Method combining air conditioning units and fan coil units
- Air conditioning units use a method almost exactly the same as that described in the above (1) Single-duct method in air conditioning units. Air conditioning units operate on a constant air volume system, and fan coil units control room temperature. It can accommodate any small rooms, if any.

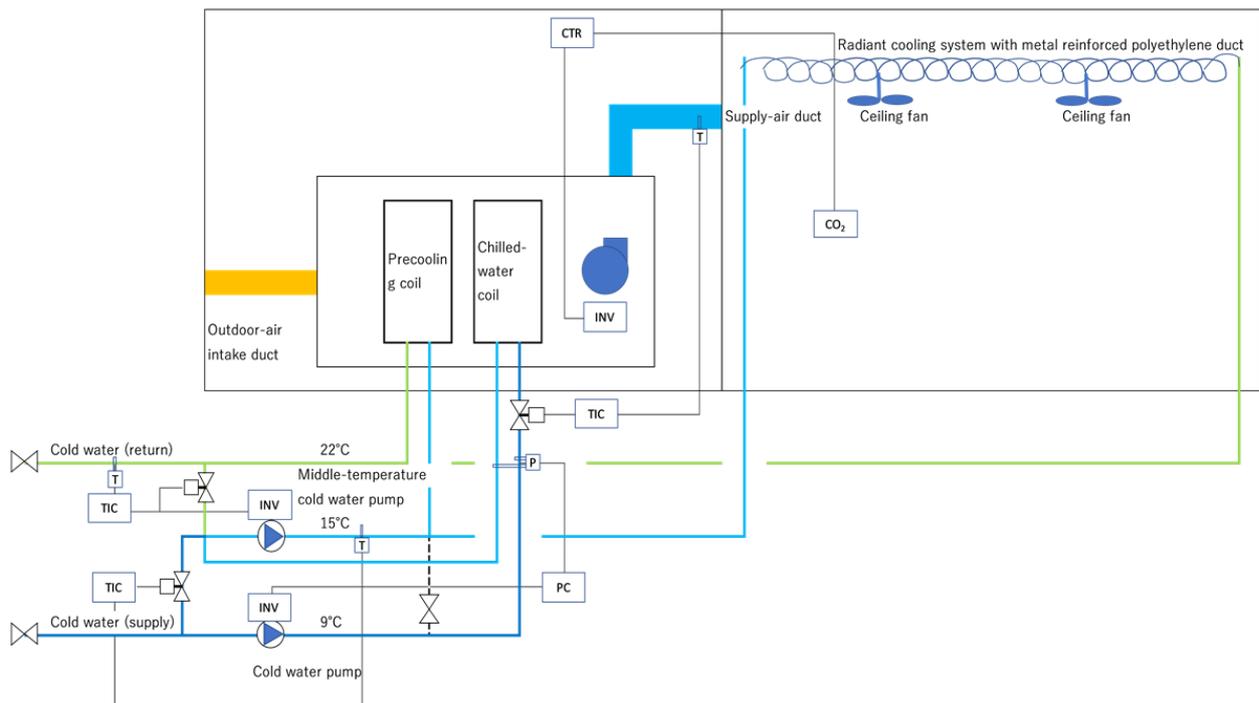
Figure 4.9 Overview of method system combining air conditioning and fan coil units



- > Control for chilled water pump inverters: inverter control of chilled water pump variable flow according to differential pressure
 - > Control for air supply temperature in air conditioning units: chilled water coil two-way valve control according to air supply temperature in air conditioning units
 - > Control room temperature: proportional control of fan coil unit two-way valves according to room temperature
 - > CO₂ concentration level based control for fresh-air inlet volume: proportional control on fresh-air inlet metal ducts and return-air metal ducts according to room CO₂ concentration levels
 - > Control for returning chilled water temperature: two-way valve control on circulation of returning chilled water and inverter control on medium temperature chilled water so that the set temperature of returning chilled water is 22°C
- 4) Method combining fresh-air processing air conditioning units and metal reinforced polythene pipe radiation cooling

The difference in supplied chilled water is secured with the pre-cooling coil of air conditioning units and metal reinforced polythene pipe radiation cooling within rooms, using 15°C medium temperature chilled water. Fresh-air processing air conditioning units are used for dehumidification, and metal reinforced polythene pipe radiation cooling is used for sensible heat processing within rooms.

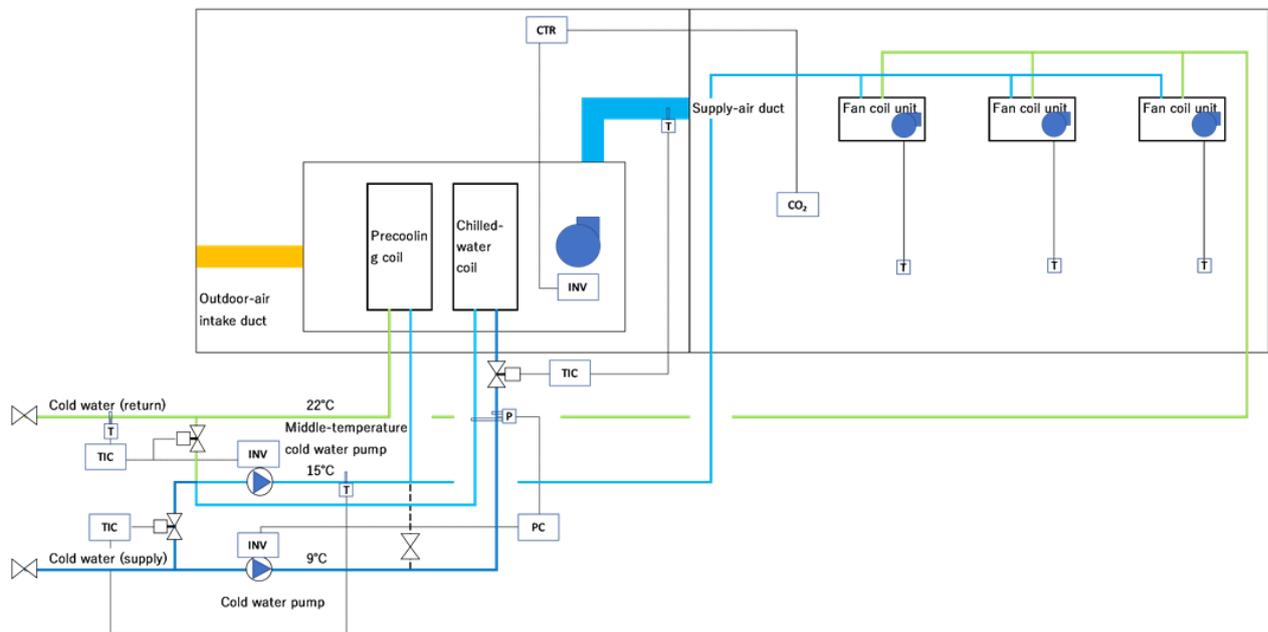
Figure 4.10 Overview of method system combining fresh-air processing air conditioning and metal reinforced polythene pipe radiation cooling



- > Control for chilled water pump inverters: inverter control of chilled water pump variable flow according to differential pressure
 - > Control for air supply temperature in air conditioning units: chilled water coil two-way valve control according to air supply temperature in air conditioning units
 - > Control room temperature: proportional control of fan coil unit two-way valves according to room temperature
 - > CO2 concentration level based control for fresh-air inlet volume: inverter control of fresh-air processing air conditioning unit fans according to room CO2 concentration levels
 - > Control for central chilled water temperature: control of chilled water two-way valves so that the temperature of supplied medium temperature chilled water is 15°C
 - > Control for returning chilled water temperature: two-way valve control on circulation of returning chilled water and inverter control on medium temperature chilled water so that the set temperature of returning chilled water is 22°C
- 5) Method combining fresh-air processing air conditioning units and sensible heat processing fan coil units

The difference in supplied chilled water is secured by the pre-cooling coil in air conditioning units and sensible heat processing fan coil units, using 15°C medium temperature chilled water. Fresh-air processing air conditioning units are used for dehumidification, and sensible heat processing fan coil units are used for sensible heat processing within rooms.

Figure 4.11 Overview of method system combining fresh-air processing air conditioning and sensible heat processing fan coil units



- > Control for chilled water pump inverters: inverter control of chilled water pump variable flow according to differential pressure
- > Control for air supply temperature in air conditioning units: chilled water coil two-way valve control according to air supply temperature in air conditioning units
- > Control room temperature: proportional control of fan coil unit two-way valves according to room temperature
- > CO₂ concentration level based control for fresh-air inlet volume: inverter control of fresh-air processing air conditioning unit fans according to room CO₂ concentration levels
- > Control for central chilled water temperature: control of chilled water two-way valves so that the temperature of supplied medium temperature chilled water is 15°C
- > Control for returning chilled water temperature: two-way valve control on circulation of returning chilled water and inverter control on medium temperature chilled water so that the set temperature of returning chilled water is 22°C

In (4) and (5) above, since the chilled water pipes within rooms are 15°C to 22°C, if fresh-air processing air conditioning units are used for dehumidification, insulation work will be unnecessary, and thus, it is assumed that construction costs will be reduced.

4-3. Documents to be submitted

The following are documents concerning this Chapter that the Organiser requires Participants to submit. The documents are to be submitted to the Organiser via the online portal for the Official Participants. Designated formats for documents to be submitted will be made available on the online portal for the Official Participants.

Names of documents to be submitted:

- > Application form for the approval of access to Utility services (4-1)
- > [If necessary] Report on maximum power value (4-2-2)
- > [If necessary] Application form for the approval of rain water storage systems (4-2-4)
- > [If necessary] Report on LPG sales operators, report on fire prevention supervisor's fire prevention plan and fire preventive measures (4-2-5)
- > [If necessary] Equipment list, instrumentation flow chart, and checklist for mandatory design requirements, specification table for chilled water secondary pump selection (4-2-7)

5. Securing of Occupation Safety and Health

This Chapter describes labour environments, safety, and health environments that Participants need to secure in construction sites when building their Pavilions.

5-1. Compliance with Laws and Regulations concerning occupational safety and health

C-145 In building Pavilions, Participants must comply with Japanese laws, including the Act on Labour Standards and the Act on Labour Safety and Health, and relevant laws and regulations, including Ordinances of the Osaka Prefecture and Osaka City.

5-2. Policy on the Sustainable Operation of the Expo

To make this Expo a role model for future expositions and other international events, attention will also be paid to sustainability of occupational safety and health in Pavilion construction. Participants are to enable sustainability based on the Policy on Holding a Sustainable Expo 2025 Osaka, Kansai, Japan, which the Organiser separately prepared to describe details, as well as the following items that are pursuant to the Policy. Sound workplace environments that are mindful of workers' health are to be secured.

C-146 Contractors are to be mindful of workers' health management. To prevent heat strokes particularly during constructions in the summer, on-site health environments and workers' health conditions must be thoroughly managed. Emergency measures for any occurrences of heat strokes must be determined in advance, and any such occurrences must be attended to promptly. Refer to Chapter 7 for reporting on any occurrences of heat strokes.

G-014 To prevent long-hour labour, it would be preferred if Participants and contractors consider implementing construction plans and processes that allow all workers to rest two days a week (eight holidays in four weeks).

5-3. Development and submission of safety and health plans by contractors

C-147 Contractors must develop safety and health plans within construction plans indicated in Chapter 2 and submit them. The following are items that should be included in the safety and health plan.

- > On-site safety and health
- > Rules and routine operations at work areas

5-4. Occupational safety and health management by Participants

C-148 Participants must support contractors in appropriately operating construction sites based on laws and regulations and this Guideline. Further, Participants are to confirm progress to check if there are any problems in the operation of construction sites.

5-5. Reporting on accidents

C-149 If any accidents occur in relation to constructions, Participants must report them to the Organiser. Refer to Chapter 7 for accidents that require notification and reporting as well as details on procedures and methods of doing so.

5-6. Documents to be submitted

The following are documents concerning this Chapter that the Organiser requires Participants to submit. The documents are to be submitted to the Organiser via the online portal for the Official Participants. Designated formats for documents to be submitted will be made available on the online portal for the Official Participants.

Names of documents to be submitted:

> Safety and health plans and attachments (5-3)

5-7. Reminders of standards referred to in this Chapter (supplementary information)

> Act on Labour Standards: Applicable operators' report

> Act on Labour Standards: Agreements on overtime and holiday work

> Act on Labour Standards: Notification of agreement on one year-unit variable working hour system

> Act on Labour Safety and Health: Notification on construction plans

> Act on Labour Safety and Health: Notification on constructed structures and machine instalment

> Act on Labour Safety and Health: Report on commencement of projects by special principal employer operators

6. Sustainability Efforts

This Chapter describes sustainability efforts and the environmental impact assessment system (environmental assessment system).

6-1. Policy on sustainability

Based on its theme Designing Future Society for Our Lives, the Expo aims to become an exposition that provides an opportunity for the world to convene in one place, prompts the exchange of diverse values, and facilitates new connections and creation.

To make this Expo a role model for future expositions and other international events, it will appropriately manage its impact on the environment and the society during and after the Expo from pre-exposition planning stages and thus, take heed of sustainability.

For this, the Organiser developed the Policy on the Sustainable Operation of the Expo. The Policy on Holding a Sustainable Expo 2025 Osaka, Kansai, Japan is available on the online portal for the Official Participants.

The Organiser will announce the Sustainable Procurement Code which it plans to develop going forward.

C-150 Participants must comply with the Policy on the Sustainable Operation of the Expo and perform constructions that are mindful of sustainability.

C-151 Participants must perform constructions in compliance with the Sustainable Procurement Code.

6-2. Environmental impact assessment system (environmental assessment system)

This project conducts an environmental impact assessment system (environmental assessment system) based on Osaka municipal ordinance on environmental impact assessment. The environmental impact assessment system (environmental assessment system) is a system in which the Organiser itself researches, forecasts, and assesses in advance what kind of impact the Expo will have on the environment and while interviewing residents for their opinions, takes proper action to preserve and create environments.

In October 2021, the Organiser publicly announced the Environmental Impact Assessment Preparation Document (hereinafter referred to as "Preparation Document") concerning the hosting of the Expo in the Yumeshima Island district. Participants are to confirm the Environmental Impact Assessment Document (hereinafter referred to as "Assessment Document") that will be prepared and publicly announced by the Organiser at a later date and reflect its content in construction work and demolition/removal work.

The Preparation Document is available on the website of the Organiser.

After being publicly announced, the Assessment Document will be made available on the Organiser's website.

C-152 Participants are to plan and carry out construction work so that they meet criteria set forth in the Assessment Document that the Organiser will publicly announce going forward.

C-153 The Organiser may instruct necessary measures according to the scale of each Participant's construction work, such as limitation on the number of construction-related vehicles, and Participants must comply with these instructions. The content of specific measures will be separately notified.

6-3. Reminders of standards referred to in this Chapter (supplementary information)

- Policy on the Sustainable Operation of the Expo
- Sustainable Procurement Code
- Environmental Impact Assessment Preparation Document

<https://www.expo2025.or.jp/news/news-20211001-01/>

7. Information Management System and Compliance with Quality Control

This Chapter describes information management systems required of Participants and procedures for notifications within them, as well as quality control.

7-1. Procedures and methods of notifications

C-154 Participants are to notify and consult with the Organiser via the online portal for the Official Participants. The following are assumed notification items (Q&A, documents to be submitted, request items, etc.) during construction work.

- > Matters concerning relevant laws and regulations such as those on safety and health standards, labourer welfare standards, and environmental standards
- > Matters concerning construction work such as distribution and technical items related to construction
- > Matters concerning quality of construction materials that are not certified in Japan under specifications such as the JIS and the Japanese Agricultural Standards (JAS)
- > Matters concerning procedures entry to Plots and security
- > Matters concerning doubts regarding Plots and coordination between Participants or with the Organiser

7-1-1. Coordination between Participants

C-155 If any matters that require coordination between Participants arise, such as those concerning the boundaries between adjacent Plots, the involved Participants must discuss the matters and resolve them amongst themselves. For matters requiring coordination with the Exposition Venue overall, Participants must coordinate with the Organiser.

C-156 In the event any matters requiring coordination arise between Participants arise, both parties must retain records and report about the matters, including the background of the matters, if requested by the Organiser.

7-1-2. Notification and reporting in emergencies

C-157 In the event of any accidents within Plots, Participants must report them to the Organiser and take emergency measures required immediately after the accident. Figure 7.1 indicates procedures for reporting when accidents arise. The first report immediately after the accident must be made, and the second and third document-based report are to be made as needed. After attending to the accident, Participants must put together respective document-based reports, prepare an accident report which include recurrence prevention measures, and submit the reports to the Organiser via the online portal for the Official Participants. Additionally, when accidents occur for reasons attributable to relevant parties of the Participants, the Participants must report them based on the same procedures, even if the accident occurred outside of the Participants' Plot.

C-158 The following indicates accidents that require reporting to the Organiser.

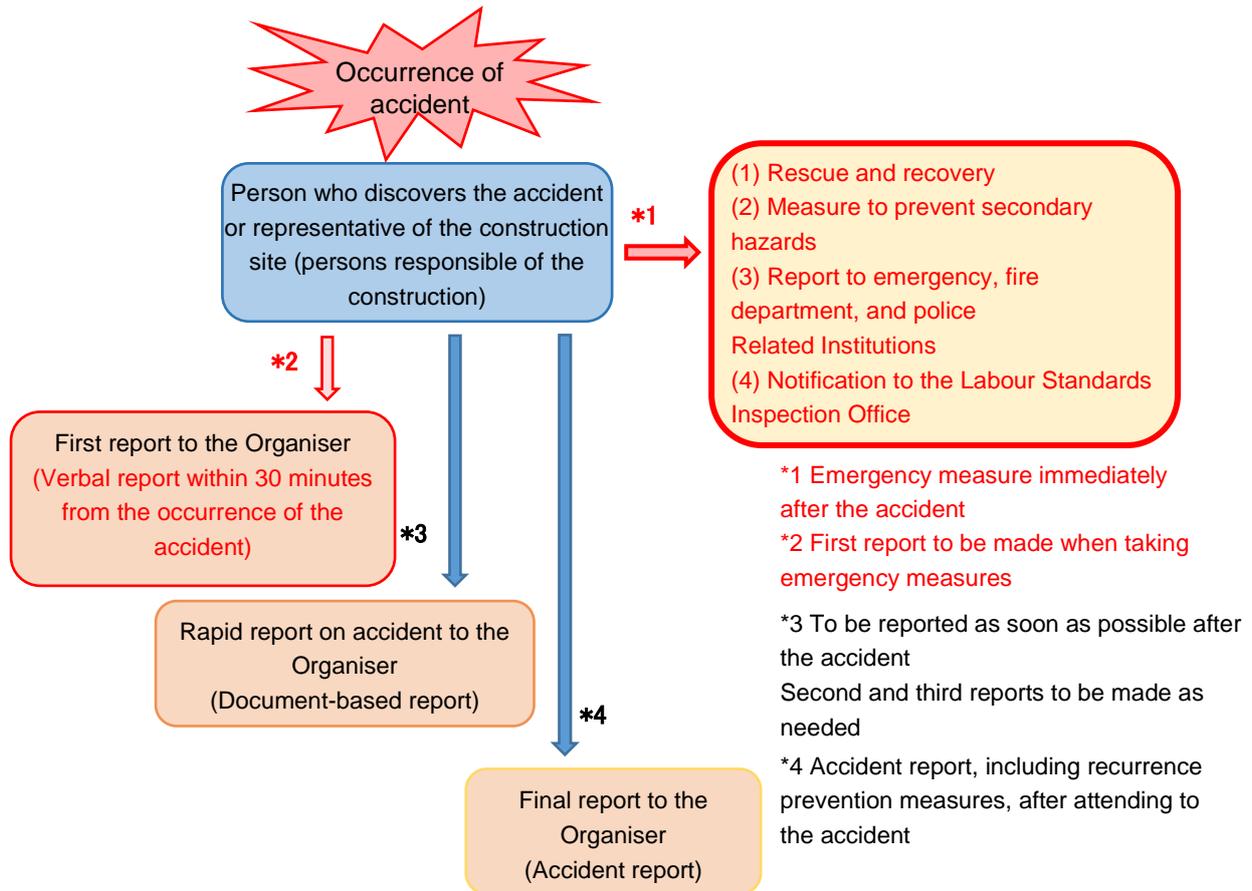
- > Accidents defined in the Labour Safety and Health Regulations (described in (1) through (4) below)

- (1) If any deaths or serious occupational hazards and accidents (those affecting three or more persons, as a general rule) occur
 - (2) If workers take a leave of absence due to occupational hazards (leaves of absences of four or more days, as a general rule)
 - (3) When fires, explosions, and collapses of construction machines occur (if accidents indicated in Article 96, Paragraph 1, Item 1-10 in the Labour Safety and Health Regulations occur)
 - (4) Otherwise, if affected workers are treated at hospitals, even if the injuries are mild, and the accident is reported to the Labour Standards Inspection Office as occupational hazards
- > Cases that affect the environment (such as large-scale oil leakage)
 - > Acts or physical damage that inhibit activities of the Organiser or Participants, or if there are any serious effects on other Participants
 - > If there are any serious effects on third parties
 - > If any other events that would prompt reporting to the police or fire department occur
 - > If there are any violations concerning the security of the Exposition Venue
 - > If any disadvantageous media coverage on the Expo or acts that may diminish the reputation of the Organiser occur for reasons attributable to Participants

C-159 Participants must indicate its reporting procedures for accidents as well as persons responsible and relevant parties in case of accidents in the List of Emergency Contact submitted as part of the Construction Work Plan Within the Plot. For further information, please refer to Chapter 2.

C-160 Participants must record all accidents that occur within their Plots as well as accidents outside their Plots that are attributable to their relevant parties and report them to the Organiser in the Construction Progress Report. For further information, please refer to Chapter 2.

Figure 7.1 Reporting procedure at times of accidents



7-2. Notification and measures for violation of rules

In the event that the Organiser identifies any violation of contractual clauses provided in Participation Contract or provisions in Construction and Demolition Work Guidelines for Self-Built Pavilions (violations of laws and regulations or false reports), or otherwise, in the event that accidents requiring report to relevant parties arise, the Organiser will issue a non-conformance notice (instructions on improvement) to the Participants. Participants to whom non-conformance notices (instructions on improvement) are issued must not continue further operations until the Organiser approves of corrections to the identified violations. Refer to 7-3-2. Periodic confirmation regarding status of supervision for detailed examples of cases in which non-conformance notices (instructions on improvement) are issued due to violations of laws and regulations or false reports.

7-3. Quality control

Participants are to control quality in compliance with relevant laws and regulations, such as the Building Standards Act of Japan.

C-161 Participants must receive a Final Inspection by the Organiser after completing construction work. During the inspection, Participants must submit to the Organiser a copy of the Certificate of Final Inspection to

validate the receipt of completion inspection provided in Article 7 of the Building Standards Act of Japan. For further information, please refer to Chapter 9.

C-162 After completing construction for exhibitions and instalment of exhibited items, Participants must obtain User's Permit from the Organiser. In doing so, Participants must submit to the Organiser inspection reports via the online portal for the Official Participants and guarantee quality control that is compliant with relevant Japanese laws and regulations. Formats for the inspection reports will be posted on the online portal for the Official Participants as of plan. For further information, please refer to Chapter 9.

7-3-1. Supervision system to secure quality

To secure the quality of buildings and exhibited items, Participants must support construction supervisors and contractors and periodically confirm the status of supervision that the construction supervisors perform and the status of construction management that contractors perform. To secure the quality of the Expo, the Organiser will periodically confirm the status of supervision that the construction supervisors perform and the status of construction management that contractors perform. Please refer to 7-3-2. Periodic confirmation regarding status of supervision.

7-3-2. Periodic confirmation regarding status of supervision

To confirm if Participants' construction supervisors and contractors are complying with construction requirements provided in relevant standards and Construction and Demolition Work Guidelines for Self-Built Pavilions, the Organiser will confirm Construction Progress Reports (refer to Chapter 2). The Organiser will confirm reports and photos on the status of construction work within the Construction Progress Report, and if the Organiser determines that correction need to be made in the status of supervision performed by the construction supervisors and the status of construction management performed by the contractors, the Organiser will require the Participants to make corrections. If improvement cannot be observed within a certain period after the corrections are required, the Organiser may issue a non-conformance notice (instructions on improvement) provided in 7-2. Notification and measures for violation of rules to the Participants. Participants are to use effort to prepare documents based on latest information.

C-163 Participants must retain records of inspections and tests performed by construction supervisors.

7-4. Documents to be submitted

The following are documents concerning this Chapter that the Organiser requires Participants to submit. Documents that need to be submitted are to be submitted to the Organiser via the online portal for the Official Participants. Designated formats for documents to be submitted will be made available on the online portal for the Official Participants.

Names of documents to be submitted:

- > Copy of Certificate of Final Inspection (7-3)
- > Inspection report (7-3)

7-5. Reminders of standards referred to in this Chapter (supplementary information)

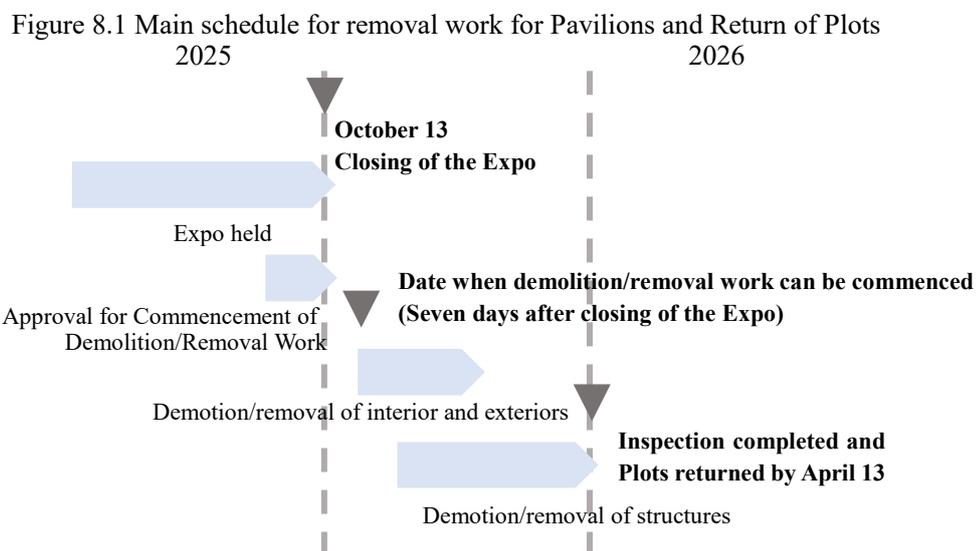
- > Standard Specifications on Public Construction Work
- > Labour Safety and Health Regulations
- > Building Standards Act and Order for Enforcement of the Act

8. Demolition/Removal Work and Return of Plot

This Chapter describes procedures and construction rules for demolition/removal work and Return of Plots.

8-1. Schedule-related conditions in demolition/removal work

- C-164** Participants are to commence demolition/removal work for Pavilions after obtaining permit for such construction work. For the main schedule until demolition/removal work and the Return of Plots, refer to Figure 8.1.
- C-165** Demotion/removal work, including the shipping out exhibitions, should be commenced after seven days from the closing of the Expo.
- C-166** Participants must perform demolition/removal work for Pavilions and within Plots and complete inspections and return the Plots by the Organiser by April 13, 2026.
- C-167** Participants must return the Plots to the Organiser in a condition equivalent to that when the Plots were handed over. For details, refer to 8-6. Restoration to original state and Return of Plots



8-2. Requirements for commencement of demolition/removal work

- C-168** Participants are to obtain from the Organiser the permit for Commencement of Demolition/Removal Work via the online portal for the Official Participants. Applications are to be made by 15 days prior to the planned date of construction commencement. The application shall be accompanied by required documents. For further information, please refer to Chapter 9.

8-3. Demotion/removal work

Demotion/removal work can be commenced after the Organiser issues Permit for Commencement of Demolition/Removal Work.

- C-169** Participants and its contractors must complete demolition/removal work in a manner that meets

requirements provided in Chapter 2.

C-170 Participants must bear responsibility of their own assets and security within Plots.

8-4. Compliance with occupational safety and health, compliance and quality guarantee, and sustainability efforts

C-171 Participants and its contractors must complete demolition/removal work in a manner that meets requirements provided in Chapters 5 and 7.

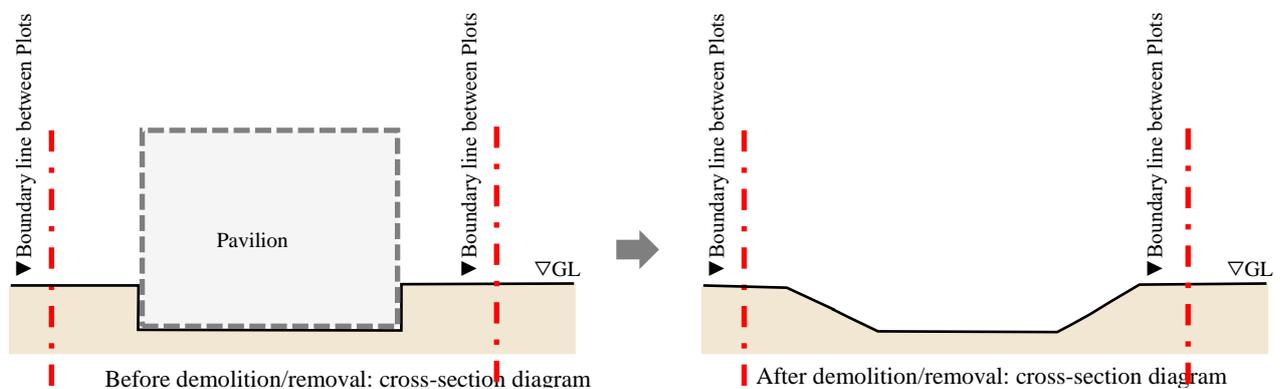
8-5. Discontinuing use of Utility services

C-172 Participants are to notify the Organiser that Utility services will no longer be needed via the online portal for the Official Participants before returning Plots and process final accounting procedures for all Utility services.

8-6. Restoration to original state and Return of Plots

C-173 Participants must apply to the Organiser for on-site Return of Plot inspections via the online portal for the Official Participants website by 10 days prior to the planned date of Return of Plot. The application shall be accompanied by required documents. For further information, please refer to Chapter 9.

C-174 After demolition and removal of foundations and underground structures, the ground must be back-filled with earth and sand within Plots and levelled and then, smoothed appropriately so that it does not affect surrounding ground.



C-175 Before returning Plots to the Organiser, Participants must confirm that all structures (above and below ground level) installed by the Participants are removed.

Participants must compare the status of levelling work when excavation work was completed during the construction of the Pavilions and that when the demolition/removal work is completed to confirm that there are no leakages of waste material and oil within Plots after the demolition/removal work. Otherwise, if the Organiser requires any inspections, Participants must perform such inspections.

C-176 If any soil that may be contaminated with oil is found after demolition/removal work, Participants are to

perform inspections and take measures based on the Guideline on Oil Contamination Measures. Similarly, if the Organiser identifies any oil contamination during inspections at the time of Return of Plot, Participants are to perform inspections and take measures.

C-177 Participants must submit to the Organiser reports on demolition/removal work. Reports must indicate the following information.

- > Reports on inspections after the completion of demolition/removal work that are prepared by the Participants and contractors (on matters including results of confirmation on any waste material or oil leakages)
- > Report on the volume of generated (disposed) waste material (recycle rate of waste material and where the waste material was disposed at)
- > Photo of the Plot condition after completing demolition/removal work

The Organiser will perform necessary inspections for Plot return, and if the Organiser determines that there are no issues, it will issue to Participants Attestation of Return of Plot certifying the successful completion of procedures.

8-7. Documents to be submitted

The following are documents that Participants are obligated to submit to the Organiser in relation to this Chapter. The documents are to be submitted to the Organiser via the online portal for the Official Participants. Designated formats for the documents to be submitted will be made available on the online portal for the Official Participants as of plan.

Names of documents to be submitted:

- > Application form for Permit for Commencement of Demolition/Removal Work (8-2)
- > Notification on discontinuing use of Utility services (8-5)
- > Application for Return of Plot inspection (8-6)
- > Report on completion of demolition/removal work (8-6)

8-8. Reminders of standards referred to in this Chapter (supplementary information)

- > Building Standards Act (e.g., removal notification)
- > Act on Noise Regulation
- > Vibration Regulation Act
- > Osaka Prefectural Ordinance on Maintenance of Living Conditions
- > Air Pollution Control Act
- > Construction Material Recycling Act
- > Construction Recycling Promotion Plan 2020
- > Guideline on Oil Contamination Measures

9. Procedures for notifications, approvals, and permits

This Chapter describes main procedures based on this Guideline (excluding procedures indicated in other Chapters) and Japanese laws.

9-1. Notifications by architects, construction supervisors, contractors, and on-site supervisors

If any designing or construction supervision is performed for the construction of buildings, such activities must be performed by architects or construction supervisors who have architect qualifications with permits based on laws and regulations. If any construction work for building structures is performed, such activity must be performed by contractors who have obtained necessary permits pursuant to laws and regulations.

C-178 Participants must notify the Organiser the names and contract information of the architects and construction supervisors. Architects are to be indicated in the application for design approval. Information on construction supervisors is to be submitted to the Organiser via the online portal for the Official Participants by 15 days prior to the commencement of construction work.

C-179 Participants must notify the Organiser on the names of contractors by 15 days prior to the commencement of construction work.

C-180 If Participants perform construction work for building structures, they must appoint on-site supervisors at the construction site for communication and coordination with the Organiser and other construction parties.

C-181 Participants must notify the Organiser the names and contract information of the on-site supervisors by 15 days prior to the commencement of construction work.

C-182 If the Organiser deems that on-site supervisors violated Laws and Regulations, the Organiser may instruct the Participants to dismiss the on-site supervisor in question, and the Participants must comply with such instructions. In such case, the Participants must immediately appoint a different on-site supervisor and notify the Organiser pursuant to the preceding Paragraph.

9-2. Points of caution concerning documents to be submitted

Documents can be submitted via the online portal for the Official Participants website. The data of the documents are to be in PDF format. Additionally, the language used is to be Japanese.

C-183 Documents (excluding those submitted to Related Institutions pursuant to laws and regulations) are to be submitted in formats specified in the various lists of formats. Documents submitted to Related Institutions pursuant to laws and regulations must comply with standards and rules of authorities provided in Japanese laws and municipal ordinances. For documents to be submitted and submission processes concerning design, refer to this Guideline and Design Guidelines for Type A (Self-Built) Pavilions.

C-184 Participants must bear all commission fees for procedures with Related Institutions concerning activities such as Application for a Building Permit and Final Inspections.

9-3. Approval for design

For design approval procedures, refer to the Design Guidelines for Type A (Self-Built) Pavilions. The Organiser will review submitted documents and indicate items that require revision or grant approvals to the Participants via the online portal for the Official Participants. Further, this approval does not exempt Participants from their obligations and responsibilities provided in Japanese domestic laws and regulations.

If any changes to design arise, prior to the performance of construction work, the Participants are to submit a design plan set out in the Design Guidelines for Type A (Self-Built) Pavilions and obtain the Organiser's approval for items other than slight changes.

If Participants perform construction work that differ from that indicated in approved plans, the Organiser may order the discontinuation of construction work.

9-3-1. Submission of first submission documents (general Design Plan)

The Organiser will review submitted documents for the first submission documents (general Design Plan) and indicate items raised, including points of revision, or grant approvals to the Participants via the online portal for the Official Participants. After approvals of the submitted documents for the first submission documents (general Design Plan), Participants may move on to the final design.

C-185 Participants must respond to points raised by the Organiser, including all points of revision.

9-3-2. Submission of second submission documents (final Design Plan)

The Organiser will review submitted documents for the second submission documents (final Design Plan) and indicate items raised, including points of revision, or grant approvals to the Participants via the online portal for the Official Participants. After submitted documents for the second submission documents (final Design Plan) are approved, Participants may apply for the Permit for Commencement of Construction.

C-186 Participants must respond to points raised by the Organiser, including all points of revision.

9-3-3. Inspections for allotted Plots

If Participants perform ground inspections before the handover of allotted Plots, they must do so after obtaining prior approvals from the Organiser and by bearing the costs themselves. To obtain prior approvals for the Plots, Participants must notify the Organiser via the online portal for the Official Participants. The period in which prior approvals can be made will be notified at a later date.

C-187 If Participants perform ground inspections within the allotted Plots, they must submit inspection reports to the Organiser. Further, Participants are to approve the disclosure of inspection reports to other Participants via the online portal for the Official Participants.

9-4. Permit for Commencement of Construction

After being issued Permits for Commencement of Construction, Participants may enter their own Plots and commence construction work. The Organiser will review submitted documents and indicate items raised, including points of revision, or grant permits to the Participants via the online portal for the Official Participants. Further, this permit does not exempt Participants from their obligations and responsibilities provided in laws and regulations.

C-188 To obtain Permits for Commencement of Construction, Participants must submit to the Organiser the following documents via the online portal for the Official Participants by 15 days prior to the planned start date of construction work.

- > Application form for Permit for Commencement of Construction
- > Copy of confirmation certificate
- > Construction work plan
- > Pledge (concerning compliance with laws and regulations during construction work)
- > Notification on Participation in Communication and Coordination Council

C-189 Participants may not commence construction work until they are issued Permits for Commencement of Construction.

C-190 If any changes in design arise after commencing construction work, and confirmation certificates are newly issued, Participants must additionally submit the following documents to the Organiser via the online portal for the Official Participants.

- > Copy of confirmation certificate for the design change

9-5. On-site inspection

The Organiser, relevant bodies, or persons designated by the Organiser or the Related Institutions may enter construction sites and inspect the construction work.

C-191 If the Organiser, relevant bodies, or persons designated by the Organiser or the Related Institutions deem that there are violations of laws and regulations based on the on-site inspection, they may instruct the Participants to correct the violations, and the Participants must comply with the instructions.

9-6. Procedures for construction completion

When Participants complete construction of buildings and outdoor spaces, they are to apply for construction completion inspections to the Organiser via the online portal for the Official Participants, and the Organiser will perform the inspections. Participants may simultaneously process application procedures for legal Final Inspections.

If the construction work passes inspections, the Organiser will issue Certificates of Completion to the Participants via the online portal for the Official Participants website.

C-192 For the issuing of the Certificate of Completion, Participants must submit a copy of the Certificate of Final Inspection.

- > Copy of Certificate of Final Inspection

C-193 When Participants complete construction work for structures and outdoor spaces, they must submit the following documents to the Organiser and apply for inspections by seven days prior to the requested date of inspection. This application must be made after construction work at the site is completed and after construction supervisors and on-site supervisors confirm that the construction work comply with approved drawings.

> Application for inspection for Certificate of Completion

> Drawing of completed construction (construction work for building structures)

C-194 If the Organiser deems that there are violations of Laws and Regulations based on the Final Inspection, they may instruct the Participants to correct the violations, and the Participants must comply with the instructions.

9-7. Procedures for User's Permit

When Participants complete all construction work for exhibitions and instalment of exhibited items, they are to apply for inspections for User's Permit, and the Organiser will inspect the Exhibition Space.

If the construction work passes the inspection, the Organiser will issue a Certificate of User's Permit for the Participant via the online portal for the Official Participants. Further, this permit does not exempt Participants from their obligations and responsibilities provided in laws and regulations.

After receiving the certificate of permit, Participants may start using the Pavilions. Participants are to bear responsibility for the operation of their Pavilions.

C-195 When Participants complete all construction work for exhibitions and instalment of exhibited items, they are to submit the following documents to the Organiser and apply for inspections via the online portal for the Official Participants by seven days prior to the requested date of inspection. This application must be made after construction work at the site is completed and after on-site supervisors confirm that the construction work comply with approved drawings.

> Application for Inspection for User's Permit

> Inspection report

> Drawing of completed construction (exhibition and interior construction work)

C-196 If the Organiser deem that there are violations of Laws and Regulations based on the User's Permit inspection, they may instruct the Participants to correct the violations, and the Participants must comply with the instructions.

9-8. Permit for demolition/removal work

Participants are to bear responsibility for the demolition and removal work of their Pavilions. Participants may commence construction work after being issued Certificates of Permit for Commencement of Demolition/Removal Work. The Organiser will review the submitted documents and inform Participants of the matters to be pointed out including corrections or give permit through the online portal for the Official Participants. This permit does not exempt Participants from their obligations and responsibilities under the law.

C-197 To obtain Certificates of Permit for Commencement of Demolition/Removal Work, Participants must submit to the Organiser the following documents via the online portal for the Official Participants by 15 days prior to the start of demolition/removal work.

- > Application form for Permit for Commencement of Demolition/Removal Work
- > Demotion/removal work schedule
- > Demotion/removal work plan

C-198 Participants must not start construction until they receive Certificates of Permit for Commencement of Demolition/Removal Work.

9-9. Procedures for the completion of demolition/removal work

When Participants complete demolition/removal work, they will apply to the Organiser for inspections for Return of Plot, and the Organiser will perform the inspections. Final cost charges by the Organiser must be settled before Participants apply for Final Inspections to the Organiser.

If the demolition/removal work passes inspections, the Organiser will issue Certificate for Return of Plot for the Participant via the online portal for the Official Participants website.

C-199 When Participants complete demolition/removal work, they must submit the following documents to the Organiser and apply for inspections via the online portal for the Official Participants by 10 days prior to the requested date of Return of Plot.

- > Application for Return of Plot Inspection
- > Final settlement form for Utility fees
- > Report on completion of demolition/removal Work

C-200 If the Organiser deems that there are defects in construction, such as remaining items, based on the Return of Plot Inspection, they may instruct the Participants to correct the violations, and the Participants must comply with the instructions.

9-10. Reminders of standards referred to in this Chapter (supplementary information)

- > Building Standards Act: Application for Final Inspection

Supplementary information

List of laws and regulations, ordinances, and standards

The following are main laws and regulations, ordinances, and standards that should be referred to.

Participants are to comply with and refer to other relevant standards and such indicated by the Organiser.

Name of law, regulation, ordinance, or standard
- Act on Construction Business and orders/regulations for enforcement of the act
- Building Standards Act and orders/regulations for enforcement of the act
- Osaka Prefectural Ordinance on the Enforcement of the Building Standards Act , Osaka Municipal Ordinance on the Enforcement of the Building Standards Act
- Act on Fire Service and orders/regulations for enforcement of the act - Osaka Municipal Ordinance on Fire Prevention
- Act on Road Traffic and orders/regulations for enforcement of the act
- Act on Waterworks and orders/regulations for enforcement of the act - Osaka Municipal Ordinance on Waterworks and Water Supply - Enforcement Rules for the Osaka Municipal Ordinance on Waterworks and Water Supply - Standards on Construction Design and Work for Water Supply Apparatus
- Act on Sewage - Osaka Municipal Ordinance on Sewage
- Act on Harbour and orders/regulations for enforcement of the act - Guideline on Administrative Handling of Construction Work for Buildings and Structures in the Subdistrict of the Osaka Port Area
- Act on Promoting Easily Accessible Public Transportation and Facilities for the Aged and the Disabled (Barrier-Free Act) and orders/regulations for enforcement of the act - Osaka Prefectural Ordinance on Welfare Communities - Osaka City Government Guidelines for Accessible Urban Planning
- Act on Parking Lot and orders/regulations for enforcement of the act
- Act on Outdoor Advertising and orders/regulations for enforcement of the act - Osaka Municipal Ordinance on Outdoor Advertising
- Act on Labour Standards and orders/regulations for enforcement of the act
- Act on Labour Safety and Health and orders/regulations for enforcement of the act
- Act on Labour Safety and Health and orders/regulations for enforcement of the act
- Act on the Promotion of Securing Safety and Health for Construction Workers and orders/regulations for enforcement of the act
- Act on Workman's Compensation Insurance and orders/regulations for enforcement of the act
- Technical Guidelines for Construction Machinery and Construction Work Safety
- Act on National Tax Collection
- Basic Act on the Environment and relevant laws and regulations
- Act on Soil Contamination Countermeasures and orders/regulations for enforcement of the act - Osaka Prefectural Ordinance on Maintenance of Living Conditions (provisions relating to soil)
- Act on Water Pollution Prevention and orders/regulations for enforcement of the act - Osaka Prefectural Ordinance on Maintenance of Living Conditions (provisions relating to water quality)
- Act on Noise Regulation and orders/regulations for enforcement of the act - Osaka Prefectural Ordinance on Maintenance of Living Conditions (provisions relating to noise)
- Act on Vibration Regulation and orders/regulations for enforcement of the act - Osaka Prefectural Ordinance on Maintenance of Living Conditions (provisions relating to vibration)
- Act on Air Pollution and orders/regulations for enforcement of the act- Osaka Prefectural Ordinance on Maintenance of Living Conditions (provisions relating to air pollution)
- Basic Act on the Promotion of a Recycle-Oriented Society and orders/regulations for enforcement of the act
- Act on the Promotion of Recycled Resource Use and orders/regulations for enforcement of the act
- Act on Waste Management and Public Cleansing and orders/regulations for enforcement of the act
- Osaka Prefectural Ordinance on the Promotion of a Recycle-Oriented Society
> Construction Material Recycling Act and orders/regulations for enforcement of the act
- Guidelines for the Promotion of Proper Treatment of Construction By-products

- Act on the Promotion of Procuring Eco-Friendly Goods and Services and orders/regulations for enforcement of the act
- Act on the Promotion of Contracts That Are Attentive to Reduction of Greenhouse Gas Emission by the Nation and orders/regulations for enforcement of the act
- Osaka Prefectural Policy on Green Procurement
- Guidelines on Construction Waste Material Processing
- Act on Architects and orders/regulations for enforcement of the act
- Act on Landscape and orders/regulations for enforcement of the act - Osaka Municipal Ordinance on Urban Landscape
- Act on Entertainment Facilities and orders/regulations for enforcement of the act
- Act on Food Sanitation and orders/regulations for enforcement of the act
- Act on the Measures by Large-Scale Retail Stores for Preservation of Living Environment and orders/regulations for enforcement of the act - Standards on Administrative Handling of Establishing Medium-Scale Retail Stores

List of necessary notifications to respective government bodies at the time of construction work

The following is a list of main necessary notifications to respective government bodies at the time of construction work. Use the following as reference; submit other necessary notifications not indicated below as needed.

Notifications that the Organiser will submit as of plan

Name of notification	Submit to	Period of submission	Remarks (those applicable to notification, etc.)
Building Standards Act and orders/regulations for enforcement of the act, Osaka Prefectural Ordinance on the Enforcement of the Building Standards Act			
Application for Final Inspection (including reviews of relevant provisions)	Construction supervision department, Planning and Coordination bureau, City of Osaka / confirmation auditing bodies	By 7 days prior to inspections	Structures that have obtained confirmation certificates
Notification on removal of structures	Construction supervision department, Planning and Coordination bureau, City of Osaka	By the commencement of demolition	Demolition of structures exceeding 10 m ² in size
Act on Fire Service and orders/regulations for enforcement of the act, Osaka Municipal Ordinance on Fire Prevention			
Notification on commencement of construction of equipment, etc. subject to construction and maintenance, Notification on design of firefighting equipment, etc., Notification on design of fire extinguishing apparatus for flame transmission prevention	Konohana fire station of Fire Department, City of Osaka	By 10 days prior to commencement of construction	Construction work for instalment of Fire Fighting Equipment, etc.
Notification on instalment of Fire Fighting Equipment, etc.	Same as above	Within 4 days from completion of construction	When installing Fire Fighting Equipment, etc. for structures applicable to fire prevention
Notification on start of use of structures applicable to fire prevention	Same as above	By 7 days prior to the start of use	When starting the use of structure applicable to fire prevention

Notification on appointment of fire control administrator, Notification on development of firefighting plan	Same as above	By the start of the use of structures applicable to fire prevention	Structures applicable to fire prevention that require fire control administrators
Notification on storage of small-quantity hazardous items or designated combustible materials, etc.	Same as above	By 7 days prior to handling	When handling specified or more volume of small-quantity hazardous materials or designated combustible materials
Notification on offices prepared at sites for construction work	Same as above	By 3 days prior to doing so	When preparing offices at sites for construction work
Notification on instalment of fuel cell, transformer, rapid charger, power generator, and storage cell equipment	Same as above	By 5 days prior to starting the instalment construction	When installing the equipment indicated on the left
Notification on holding events	Central fire station of Fire Department, City of Osaka	By 3 days prior to doing so	(Submitted by the Organiser)
Act of Waterworks and orders/regulations for enforcement of the act, Osaka Municipal Ordinance on Waterworks and Water Supply			
Construction application form and construction work approval application for water supply apparatus	Water Service Installation Department, Engineering Division, Osaka Municipal Waterworks Bureau	Before commencing construction work	(Submitted by the Organiser)
Notification on construction completion	Same as above	When completing construction work	(Submitted by the Organiser)
Notification on commencing use	Same as above	Before use	(Submitted by the Organiser)
Act on Sewage and orders/regulations for enforcement of the act, Osaka Municipal Ordinance on Sewage			
Application form for confirmation of water drainage equipment plans	*Facility Management Department, Sewerage Division, Public Works Bureau, City of Osaka, *Clearwater OSAKA Corporation	Individual confirmation	(Submitted by the Organiser)

Notification on detoxification facility instalment plans	Facility Management Department, Sewerage Division, Public Works Bureau, City of Osaka	Beforehand	When installing detoxification facilities or taking necessary measures to enable water quality at water drainage standard levels or lower
Act on Outdoor Advertising, Osaka Municipal Ordinance on Outdoor Advertising			
Application for outdoor advertising permits	Management Department, General Affairs Division, Public Works Bureau, City of Osaka	3 weeks before commencing construction work	When installing outdoor advertising
Notification on construction completion	Management Department, General Affairs Division, Public Works Bureau, City of Osaka	When completing instalment	When installing outdoor advertising
Act on Labour Standards and orders/regulations for enforcement of the act			
Applicable business report	Nishinoda Labour Standards Inspection Office	After commencing business, without delay	When commencing business applicable to the Act on Labour
Notification on agreement concerning overtime and holiday working	Nishinoda Labour Standards Inspection Office	Before commencing, without delay	When employees are required to work overtime for one day and a certain period of more than one day or work on holidays
Notification on agreement concerning one-year unit variable working hour systems	Nishinoda Labour Standards Inspection Office	Before commencing, without delay	Business locations implementing one-year unit variable working hour systems
Application form for permit concerning intermittent day or night shift working	Nishinoda Labour Standards Inspection Office	Before commencing, without delay	When being exempted in terms of working hours due to intermittent day or night shifts
Notification on work regulations	Nishinoda Labour Standards Inspection Office	After establishing, without delay	Business locations that use 10 or more workers at all times
Act on Labour Safety and Health and orders/regulations for enforcement of the act			
Notification on construction work	Nishinoda Labour Standards Inspection Office	Differs according to content of plan	When commencing work defined in Article 88 of the Act on Labour Safety and Health

Notification on instalment of structures and machines	Nishinoda Labour Standards Inspection Office	When commencing constructions	When installing, transferring, or changing machines specified in the first part of Appendix Table 7 of the Act on Labour Safety and Health
Report on commencement of business as a special principal employer	Nishinoda Labour Standards Inspection Office	When commencing constructions	If workers of the special principal employer and related contract workers work at the same location
Notification on representative of joint businesses	Nishinoda Labour Standards Inspection Office	When commencing constructions	When establishing joint businesses
Act on Labour Safety and Health and orders/regulations for enforcement of the act			
Report on appointment of general safety and health administrator, safety administrator, health administrator, and corporate physician	Nishinoda Labour Standards Inspection Office	When commencing constructions	Business locations at which a prespecified number or more workers work
Accident report	Nishinoda Labour Standards Inspection Office	As needed during constructions	When accidents occur
Report on workers' death and injuries	Nishinoda Labour Standards Inspection Office	As needed during constructions	When occupational hazards occur
Notification on instalment of cranes	Nishinoda Labour Standards Inspection Office	As needed during constructions	When installing cranes of 3 tonnes or more (1 tonne or more for stacker methods) in lifting load
Report on instalment of derricks	Nishinoda Labour Standards Inspection Office	As needed during constructions	When installing derricks of 0.5 tonnes or more and less than 2 tonnes in lifting load
Report on instalment of elevators and simple lifts	Nishinoda Labour Standards Inspection Office	As needed during constructions	When installing elevators or simple lifts of 0.25 tonnes or more and less than 1 tonne in loading capacity
Notification on instalment of construction lifts	Nishinoda Labour Standards Inspection Office	As needed during constructions	When installing construction lifts of 0.25 tonnes or more in loading capacity and 18 m or more in guide rail height

Report on results of periodic health examinations	Nishinoda Labour Standards Inspection Office	As needed during constructions	Business operators using 50 or more workers at all times
Act on National Tax Collection and orders/regulations for enforcement of the act			
Labour insurance: notification on establishment of insurance relations	Industrial accident insurance: Umeda Public Employment Security Office Employment insurance: Nishinoda Labour Standards Inspection Office	Within 10 days from the day of establishing insurance relations	-
Labour insurance: application form on estimated insurance premium and payment statements	Industrial accident insurance: Umeda Public Employment Security Office Employment insurance: Nishinoda Labour Standards Inspection Office	Within 50 days from the day of establishing insurance relations	-
Labour insurance: permit application form for subcontractors serving as business operators	Nishinoda Labour Standards Inspection Office	Within 10 days from the day of establishing insurance relations	When deeming subcontract projects as independent constructions and establishing insurance relations
Workman's compensation insurance: notification on appointment of agents	Nishinoda Labour Standards Inspection Office	Promptly each time a representative is appointed	When having agents process administrative work for labour insurance
Soil Contamination Countermeasures Act and orders/regulations for enforcement of the act, Osaka Prefectural Ordinance on Maintenance of Living Conditions (provisions relating to soil)			
Notification on change in ground characteristics within districts where change in ground characteristics is required to be reported	Submitted by the Organiser	-	(Submitted by the Organiser)

Report on history of use of 3000 m ² or larger grounds that are altered in terms of characteristics	Submitted by the Organiser	-	(Submitted by the Organiser)
Notification on shipping out contaminated soil	Environmental Management Department, Environmental Management Division, Environment Bureau, City of Osaka	By 14 days prior to the day of commencement	When shipping out soil from districts requiring measures
Act on Special Measures Concerning Conservation of the Seto Inland Sea			
Application form for permit on installing (changing) special facilities	Facility Management Department, Sewerage Division, Public Works Bureau, City of Osaka	By the time of instalment	Business sites that emits maximum water volume of 50 m ³ or more per day to public water areas
Act on Noise Regulation and orders/regulations for enforcement of the act, Osaka Prefectural Ordinance on Maintenance of Living Conditions (provisions relating to noise)			
Act on Vibration Regulation and orders/regulations for enforcement of the act, Osaka Prefectural Ordinance on Maintenance of Living Conditions (provisions relating to vibration)			
Notification on performance of special construction work	Seibu Environment Conservation Group, Environmental Management Department, Environmental Management Division, Environment Bureau, City of Osaka	By 7 days prior to commencing construction work	When performing special construction work that uses construction machines such as pile drivers or backhoes
Act on Air Pollution and orders/regulations for enforcement of the act			
Notification on performance of construction work that emits designated mineral dust (Result report of preliminary survey regarding asbestos)	Seibu Environment Conservation Group, Environmental Management Department, Environmental Management Division, Environment Bureau, City of Osaka	Before starting construction	Demolition of structures that are 80 m ² or more in floor area Repairs that are 1 million yen or more in contract fees
Construction Material Recycling Act and orders/regulations for enforcement of the act			

Notification pursuant to the Act on Construction Material Recycling	Building Verification Department, Building Guidance Division, Planning and Coordination Bureau, City of Osaka	By 7 days prior to commencing construction work	Demolition: 80 m ² or more in floor area Construction: 500 m ² or more in floor area
Act on Waste Management and Public Cleansing and orders/regulations for enforcement of the act			
Report on the status of delivery of management slips for industrial waste	I Industrial Waste Regulation Group, Environmental Management Department, Environmental Management Division, Environment Bureau, City of Osaka	Earliest June 30 after the end of the previous fiscal year	Report once a year of the summary of the results for the previous fiscal year (April to March)
Industrial waste treatment plan	Same as above	June 30 in the fiscal year for which the plan should be notified	Entity that should make a notification is the business operator whose total amount of industrial waste generated from each work place (site) in Osaka city in the previous fiscal year is 1,000 tons or more.
Implementation status report on Industrial waste treatment plan	Same as above	June 30 of the next fiscal year after the fiscal year for which the plan was submitted.	Entity that should make a notification is the business operator who submitted the "Industrial Waste Treatment Plan" of the fiscal year.
Consultation with Osaka Metro on contiguous construction			
Consultation on contiguous railway construction of the North Port Techno Port Line	Planning Division, Osaka Ports and Harbours Bureau	when needed	In case within 30m from the position of the underground shield of the North Port Techno Port Line
Act on Road and orders/regulations for enforcement of the act			

<p>Application for permit to traffic of special vehicles</p>	<p>Coordination Department, Roads, Streets, and Rivers Division, Public Works Bureau, City of Osaka (in case of traffic on a road under the Act on Road, traffic both on a road under the Act on Road Law and on a port road in once)</p> <p>Facility Management Division, Planning and Maintenance Department, Osaka Ports and Harbours Bureau (in case of traffic on port roads only)</p>	<p>By 8 weeks before the traffic start date (*)</p>	<p>When traveling on the road with a special vehicle</p> <p>(*) If it is less than 8 weeks before the traffic start date, please contact the submission destination.</p>
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Contact

The Official Participants can send inquiries concerning the content of this Guideline or uncertainties concerning procedures to the Organiser using the Queries function in the online portal for the Official Participants.

If you have any trouble using the online portal for the Official Participants, please contact us by email to participant@expo2025.or.jp (or otherwise).



**Bureau
International
des Expositions**

Japan Association for the 2025 World Exposition