

**BIM PROJECT EXECUTION PLAN (PxP)**

**v 1.0**

**FOR:**

**[PROJECT TITLE]**  
[PROJECT LOCATION]  
[eProjects WORKORDER NUMBER]

**DEVELOPED BY**

**[Designer of Record (DOR)]**

Instructions to the Editor:

These are instructions for the Designer of Record (DOR) filling out the PxP. Instructions and examples to assist with the completion of this guide are currently in grey. The text can and should be modified to suit the needs of the organization filling out the template. If modified, the format of the text should be changed to match the rest of the document.

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SECTION A: PROJECT INFORMATION

To successfully execute Building Information Modeling (BIM) on a project, [Click and Type Designer of Record] has developed this detailed BIM Project Execution Plan. The BIM Project Execution Plan defines BIM uses, along with a detailed process for executing BIM on this project.

1. **FACILITY OWNER:** [Facility Owner (e.g. NAVFAC)]
2. **PROJECT NAME:** [Project Name (Match Project Specifications)]
3. **PROJECT LOCATION:** [Project Location (Match Project Specifications)]
4. **CONTRACT TYPE:** [Contract Type Design-Build]
5. **FACILITY TYPE:** [Enter Facility Type (Match contract Facility Type Designation)]
6. **BRIEF PROJECT DESCRIPTION:** [Enter Project Description (Number of facilities, General Size, etc…)]
7. **ADDITIONAL PROJECT INFORMATION:** [Enter Additional Project Information (e.g. Unique BIM project characteristics)]
8. **PROJECT NUMBERS:**

|  |  |
| --- | --- |
| **PROJECT INFORMATION** | **NUMBER** |
| NAVFAC CONTRACT NUMBER: |  |
| TASK ORDER NUMBER: |  |
| NAVFAC ePROJECT WORK ORDER NUMBER: |  |
| **DOR INFORMATION** | **NUMBER** |
| DOR PROJECT NUMBER(S): |  |
| **CONSTRUCTION CONTRACTOR (KTR) INFORMATION** | **NUMBER** |
| KTR PROJECT NUMBER(S): |  |

SECTION B: KEY PROJECT CONTACTS

The following is a list of the lead BIM contacts for each organization on the project. Mark N/A for roles not applicable to the project.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ROLE** | **ORGANIZATION** | **NAME** | **EMAIL** | **PHONE** |
| DOR Project Manager | [NAVFAC / AGENT] | [John/Jane Doe] |  |  |
| NAVFAC Project Manager | [NAVFAC] |  |  |  |
| DOR BIM Manager | [Company] |  |  |  |
| DOR Architectural Lead | [Company] |  |  |  |
| NAVFAC Architectural Lead | [NAVFAC] |  |  |  |
| DOR Structural Lead | [Company] |  |  |  |
| NAVFAC Structural Lead | [NAVFAC] |  |  |  |
| DOR Interiors Lead | [Company] |  |  |  |
| NAVFAC Interiors Lead | [NAVFAC] |  |  |  |
| DOR Landscape Architecture Lead | [Company] |  |  |  |
| NAVFAC Landscape Architecture Lead | [NAVFAC] |  |  |  |
| DOR Civil Lead | [Company] |  |  |  |
| NAVFAC Civil Lead | [NAVFAC] |  |  |  |
| DOR Fire Protection Lead | [Company] |  |  |  |
| NAVFAC Fire Protection Lead | [NAVFAC] |  |  |  |
| DOR Mechanical Lead | [Company] |  |  |  |
| NAVFAC Mechanical Lead | [NAVFAC] |  |  |  |
| DOR Electrical/Telecom Lead | [Company] |  |  |  |
| NAVFAC Electrical/Telecom Lead | [NAVFAC] |  |  |  |
| DOR Plumbing Lead | [Company] |  |  |  |
| NAVFAC Plumbing Lead | [NAVFAC] |  |  |  |
| NAVFAC Design Manager | [NAVFAC] |  |  |  |
| NAVFAC Construction Manager | [NAVFAC] |  |  |  |
| Other Project Roles | [Company] |  |  |  |

SECTION C: PROJECT GOALS / BIM OBJECTIVES

1. **MAJOR BIM GOALS / OBJECTIVES:**

|  |  |
| --- | --- |
| **BIM GOAL** | **DESCRIPTION** |
| **Models** | 3D Parametric Design Model and Record Model |
| **Design Facility Data** | DOR Edited Model & Facility Data Matrix tab from eOMSI Facility Data Workbook (FDW) |

1. **BIM USES:**

The BIM Uses currently checked with an (X) are mandatory and are required by NAVFAC:

|  |  |
| --- | --- |
|  | **DESIGN** |
| **X** | **DESIGN FACILITY DATA** |
| **X** | **DESIGN MODELING** |
| **X** | **CLASH DETECTION**  **(3D COORDINATION)** |

SECTION D: ORGANIZATIONAL ROLES / STAFFING

For each BIM Use required, identify the team within the organization (or organizations) who will staff and perform that Use. Staff members may fill multiple project roles.

|  |  |  |  |
| --- | --- | --- | --- |
| **ROLES/STAFFING** | | | |
| **PROCESS** | **ORGANIZATION** | **LOCATION(S)** | **LEAD CONTACT** |
| **DESIGN FACILITY DATA** | [DOR] |  |  |
| **DESIGN MODELING** | [DOR] |  |  |
| **PROGRESS REVIEWS** | **NAVFAC** |  |  |
| **CLASH DETECTION**  **(3D COORDINATION)** | [DOR] |  |  |

SECTION E: QUALITY CONTROL

1. **OVERALL STRATEGY FOR QUALITY CONTROL**

Describe the strategy to control the quality of the model.

1. **QUALITY CONTROL CHECKS**

The following checks are required to assure quality. Provide Responsible Party name and title.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **REVIEW** | **DEFINITION** | **RESPONSIBLE PARTY** | **SOFTWARE PROGRAM(S)** | **FREQUENCY** |
| **VISUAL REVIEW** | Check the DOR Edited Model & Facility Data Matrix tab from the eOMSI Facility Data Workbook against the design intent, so that there are no unintended elements or omissions in the Design Model | John Doe Architect |  | AT EVERY SUBMITTAL |
| **clash detection**  **(3D COORDINATION)** | Detect problems in the model where two building components intersect (e.g. a structural beam intersects HVAC duct work) |  |  | AT EVERY SUBMITTAL |

SECTION F: TECHNOLOGICAL INFRASTRUCTURE NEEDS

1. **SOFTWARE:**

List software used to deliver BIM. Remove BIM Use and software that is not applicable.

|  |  |  |  |
| --- | --- | --- | --- |
| **BIM USE** | **USER** | **SOFTWARE** | **VERSION** |
| DESIGN MODELING | ARCHITECTURAL | XYZ DESIGN APPLICATION |  |
| DESIGN MODELING | STRUCTURAL | XYZ DESIGN APPLICATION |  |
| DESIGN MODELING | INTERIOR | XYZ DESIGN APPLICATION |  |
| DESIGN MODELING | LANDSCAPE ARCHITECURE | XYZ DESIGN APPLICATION |  |
| DESIGN MODELING | CIVIL | XYZ DESIGN APPLICATION |  |
| DESIGN MODELING | FIRE PROTECTION | XYZ DESIGN APPLICATION |  |
| DESIGN MODELING | MECHANICAL | XYZ DESIGN APPLICATION |  |
| DESIGN MODELING | ELECTRICAL/TELECOM | XYZ DESIGN APPLICATION |  |
| DESIGN MODELING | PLUMBING | XYZ DESIGN APPLICATION |  |
| EXISTING CONDITIONS MODELING |  | XYZ DESIGN APPLICATION |  |
| CLASH DETECTION  (3D COORDINATION) |  | CLASH DETECTION  (3D COORDINATION) SOFTWARE |  |
| DESIGN REVIEWS |  | DESIGN REVIEW SOFTWARE |  |

SECTION G: MODEL ORGANIZATION

1. **MODEL STRUCTURE:**

Describe and diagram how the Model is divided up, linked and named. For example, by building, by floor, by zone, by areas, and/or by discipline. Refer to FC 1-300-09N for naming conventions and minimum model organization.

1. **MEASUREMENT SYSTEM:**

Describe the measurement system (Imperial or Metric) used.

SECTION H: PROJECT DELIVERABLES

In this section, list the BIM deliverables for the project and the format in which the information will be delivered. The Design Phases are identified in the RFP and FC 1-300-09N NAVY AND MARINE CORPS DESIGN PROCEDURES.

|  |  |  |  |
| --- | --- | --- | --- |
| **BIM SUBMITTAL ITEM** | **DESIGN PHASE** | **FORMAT** | **NOTES** |
| The Model in native format | FINAL | […] |  |
| eOMSI Facility Data Workbook (FDW) | DESIGN DEVELOPMENT, PRE-FINAL and FINAL | Excel |  |
| CAD files | FINAL | DWG |  |
| Visual Review Report | ALL | PDF |  |
| Clash Detection (3D Coordination) Report | ALL | PDF |  |
| List of all submitted files | ALL | […] |  |