

# 3D Plant Project Setup

Use this form to help you compile the various of information you need to design an effective, comprehensive, and correct 3D plant project.

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Date Prepared: \_\_\_\_\_

Project Name: \_\_\_\_\_ Project Location: \_\_\_\_\_

Company: \_\_\_\_\_ Phone: \_\_\_\_\_

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## Type of Project:

Metric

Mix Metric

Inches

## Project Standard:

ANSI

ANSI/ ISO

ISO

DIN

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(Hint: Have a copy of a typical company document, source as P&ID, Symbol legend, Reports, General Arrangement Drawing, Iso's etc. This will help you to get the required information to complete this document)

## Project Database:

• SQLite

• MS SQL

Project Server Location: \_\_\_\_\_

## Project Path for:

• Project: \_\_\_\_\_

• Spec files: \_\_\_\_\_

• Drawings: \_\_\_\_\_

• 3D Models: \_\_\_\_\_

## **General Project Info:**

(Hint: What type of project, P&ID and 3D piping or only 3D piping, circa how many line numbers, estimated P&IDs, etc.)

[Add General Project Info]

## **P&ID Requirements**

### **Properties field**

(Hint: In some cases, you need to create a new properties field on existing components, if it not exists. Missing fields need to be added, before tag and report creations.)

**Add Properties field:**    **Yes**         **No**

[Add new field name for each component type]:

### **P&ID Symbols and Process Lines**

(Missing Symbols or process Line type)

[Add missing symbol, or replace of existing symbol or new process line types]:

### **Reports**

[Add / Change reports]:

## Tag Number syntax

(Example: <TYP>-<Num> = P-100 or <Size>-<Spec>-<Num>/<SubNum>=4"-CS150-23/456. Be sure you have correct acquisition Properties on your properties field)

[Add/change Tag number for]:

**Equipments:** ->[Example: <Typ>-<Num> = P-100]

**Process Line:** ->[Example: <Size>-<Spec>-<Service -<Num> = 4"-CS150-WA-0100]

**Valve:** ->[Example: <Typ>-<Num> = GA-100]

**Instrument:** ->[Example: <Area>- <Typ>-<Num> = 45-PI-100]

**User Comp:** ->[Example: <UserField1>-< UserField2> =FG-100]

## Annotation syntax

(Example: <TYP>-<Num> = P-100 or <Size>-<Spec>-<Num>/<SubNum>=4"-CS150-23/456)

[Add / Change Annotation for]:

**Equipments:** ->[Example: <Typ>-<Num> = P-100]

**Process Line:** ->[Example: <Size>-<Spec>-<Service -<Num> = 4"-CS150-WA-0100]

**Valve:** ->[Example: <Typ>-<Num> = GA-100]

**Instrument:** ->[Example: <Area>- <Typ>-<Num> = 45-PI-100]

**User Comp:** ->[Example: <UserField1>-< UserField2> =FG-100]

## P&ID Layout

(Hint: Customer drawing border with logo etc. Layer, Color and pen setting)

- **P&ID DWT file – Border**
- **Layer and Color setting**
- **Plotter settings**

## **3D Plant Requirements**

### **3D Model info:**

(Hint: Project breakdown, Xref for each discipline, ortho drawings, Iso's , inventor, steel, use of existing solids, etc.)

[Add General 3D Plant Info]

### **Properties field**

(Hint: In some cases, you need to create a new properties field on existing components, if it not exists. Missing fields need to be added, before tag and report creations, selection lists etc.)

**Add Properties field:**    **Yes**         **No**

[Add new field name for each component type]:

### **P&ID Symbols and Process Lines type**

(Custom Symbols, process Line type)

[Add missing symbol, or replace of existing symbol or new process line types]:

### **Reports/MTO**

[Add / Change reports/MTO]:

## Tag Number syntax

(Example: <TYP>-<Num> = P-100 or <Size>-<Spec>-<Num>/<SubNum>=4"-CS150-23/456. Be sure you have correct acquisition Properties on your properties field)

[Add/change Tag number for]:

**Equipments:** ->[Example: <Typ>-<Num> = P-100]

**Process Line:** ->[Example: <Size>-<Spec>-<Service -<Num> = 4"-CS150-WA-0100]

**Valve:** ->[Example: <Typ>-<Num> = GA-100]

**Instrument:** ->[Example: <Area>- <Typ>-<Num> = 45-PI-100]

**User Comp:** ->[Example: <UserField1>-< UserField2> =FG-100]

## Annotation syntax for Ortho component Labels

(Example: <TYP>-<Num> = P-100 or <Size>-<Spec>-<Num>/<SubNum>=4"-CS150-23/456)

[Add / Change Annotation for]:

**Equipments:** ->[Example: <Typ>-<Num> = P-100]

**Process Line:** ->[Example: <Size>-<Spec>-<Service -<Num> = 4"-CS150-WA-0100]

**Valve:** ->[Example: <Typ>-<Num> = GA-100]

**Instrument:** ->[Example: <Area>- <Typ>-<Num> = 45-PI-100]

**User Comp:** ->[Example: <UserField1>-< UserField2> =FG-100]

## Spec

(Hint: Spec requirements, missing specs, Spec Standard, source as BS, API etc. )

[Spec Names/Info]:

## Xref

(Hint: Project setup with use of xref. Re-use of existing plant 3D model, etc.. )

[Xref info]:

## Iso's

(Hint: Type of Iso's. Isogen BOM formatting, Isogen title block, Isogen Configuration etc )

[Isogen Requirements]:

## General 3D Plant info

(Hint: Add all required add-ons outside delivery "out of the box" Specs, component, MTO, work around stc. )

[What's need to be added/changed regards to 3D Plant delivery out of the box]:

## Ortho Layout

(Hint: Annotation formats, Customer drawing border with logo etc. Layer, Color and pen setting)

- **Ortho DWT file – Border**
- **Layer and Color setting**
- **Plotter settings**