Process Industry Practices
Civil

PIP CVC01017
Plant Site Data Sheet
PURPOSE AND USE OF PROCESS INDUSTRY PRACTICES

In an effort to minimize the cost of process industry facilities, this Practice has been prepared from the technical requirements in the existing standards of major industrial users, contractors, or standards organizations. By harmonizing these technical requirements into a single set of Practices, administrative, application, and engineering costs to both the purchaser and the manufacturer should be reduced. While this Practice is expected to incorporate the majority of requirements of most users, individual applications may involve requirements that will be appended to and take precedence over this Practice. Determinations concerning fitness for purpose and particular matters or application of the Practice to particular project or engineering situations should not be made solely on information contained in these materials. The use of trade names from time to time should not be viewed as an expression of preference but rather recognized as normal usage in the trade. Other brands having the same specifications are equally correct and may be substituted for those named. All Practices or guidelines are intended to be consistent with applicable laws and regulations including OSHA requirements. To the extent these Practices or guidelines should conflict with OSHA or other applicable laws or regulations, such laws or regulations must be followed. Consult an appropriate professional before applying or acting on any material contained in or suggested by the Practice.

This Practice is subject to revision at any time.

© Process Industry Practices (PIP), Construction Industry Institute, The University of Texas at Austin, 3925 West Braker Lane (R4500), Austin, Texas 78759. PIP Member Companies and Subscribers may copy this Practice for their internal use. Changes or modifications of any kind are not permitted within any PIP Practice without the express written authorization of PIP. Authorized Users may attach addenda or overlays to clearly indicate modifications or exceptions to specific sections of PIP Practices. Authorized Users may provide their clients, suppliers and contractors with copies of the Practice solely for Authorized Users’ purposes. These purposes include but are not limited to the procurement process (e.g., as attachments to requests for quotation/ purchase orders or requests for proposals/contracts) and preparation and issue of design engineering deliverables for use on a specific project by Authorized User’s client. PIP’s copyright notices must be clearly indicated and unequivocally incorporated in documents where an Authorized User desires to provide any third party with copies of the Practice.

PUBLISHING HISTORY
March 2000 Issued
February 2005 Complete Revision
October 2011 Complete Revision

Not printed with State funds
Table of Contents

1. Introduction ..................................... 2
   1.1 Purpose ....................................... 2
   1.2 Scope ......................................... 2

2. References ........................................ 2
   2.1 Process Industry Practices .............. 2
   2.2 Industry Codes and Standards ........ 2
   2.3 Government Regulations ................. 3

Data Forms
   CVC01017-D - Plant Site Data Sheet - U.S. Customary Units
   CVC01017-DM - Plant Site Data Sheet - SI Units
1. Introduction

1.1 Purpose
This Practice provides the Plant Site Data Sheet for compiling and communicating civil/structural/architectural facilities design data for overall plant facilities.

1.2 Scope
The Plant Site and Data Sheet provide design data for use in conjunction with PIP STC01015 – Structural Design Criteria and PIP ARC01015 – Architectural and Building Utilities Design Criteria. The plant site data should be provided by the owner and communicated to the project team. Not all information in these documents may be applicable to a specific site. Some information may be applicable to work performed by other disciplines and should, therefore, be issued to all disciplines for their use.

2. References
Applicable parts of the following Practices, industry codes and standards, and government regulations shall be considered an integral part of this Practice. The edition in effect on the date of contract award shall be used, except as otherwise specified. Short titles are used herein where appropriate.

2.1 Process Industry Practices (PIP)
- PIP PNE00003 – Process Unit and Offsites Layout Guide
- PIP STC01015 – Structural Design Criteria
- PIP ARC01015 – Architectural and Building Utilities Design Criteria

2.2 Industry Codes and Standards
- American Association of State Highway and Transportation Officials (AASHTO)
  - AASHTO HB-17 – Standard Specifications for Highway Bridges - 17th Edition
  - AASHTO GHDS – A Policy on Geometric Design of Highways and Streets - Revision 5
  - AASHTO VLVLR – Guidelines for Geometric Design of Very Low-Volume Local Roads
- American Railway Engineering and Maintenance-of-Way Association (AREMA)
  - AREMA Manual for Railway Engineering
- American Society of Civil Engineers (ASCE/SEI)
  - ASCE/SEI 7 – Minimum Design Loads for Buildings and Other Structures
- Building Officials and Code Administrators International, Inc. (BOCA)
  - Comment: BOCA merged with the International Code Council (ICC).
- International Code Council (ICC)
  - International Building Code (IBC)
• International Conference of Building Officials (ICBO)
  *Comment:* ICBO merged with the ICC.

• National Fire Protection Association (NFPA)

• Southern Building Code Congress International, Inc. (SBCCI)
  *Comment:* SBCCI merged with the ICC.

### 2.3 Government Regulations

• National Pollution Discharge Elimination System (*NPDES*)

• Federal regulations, standards, and instructions of various Federal agencies and any additional requirements by state or local agencies or other countries that have jurisdiction in the state or area where the project is to be constructed shall apply. Federal agencies with jurisdiction may include the following:
  a. Occupational Safety and Health Administration (OSHA)
  b. Environmental Protection Agency (EPA)
  c. Federal Emergency Management Agency (FEMA)
  d. U.S. Army Corps of Engineers (USACE)
  e. Federal Energy Regulatory Commission (FERC)
  f. U.S. Department of Transportation (DOT)
  g. Other agencies and subagencies as may be project specific

• Other countries, states, and localities most likely have agencies with similar functions that must be contacted on a project-specific basis.
FACILITY NAME/LOCATION: 

BUILDING CODE:
DESIGN AT THIS PLANT SITE SHALL BE IN ACCORDANCE WITH THE FOLLOWING BUILDING CODE(S):

- International Building Code (IBC)
- Other: ________________________________
- None

YEAR OF LOCALLY ADOPTED EDITION: ________________________________

OWNER'S LIAISON WITH BUILDING AUTHORITY:
NAME: ________________________________ PHONE: ________________________________

LOCAL BUILDING AUTHORITY:
NAME: ________________________________
ADDRESS: ________________________________
PHONE/FAX: ________________________________
CONTACT: ________________________________

STATE OR OTHER FIRE AUTHORITY:
NAME: ________________________________
ADDRESS: ________________________________
PHONE/FAX: ________________________________
CONTACT: ________________________________

STORM WATER GOVERNING AUTHORITY:
NAME: ________________________________
ADDRESS: ________________________________
PHONE/FAX: ________________________________
CONTACT: ________________________________

FACULTY STANDARD INDUSTRIAL CLASSIFICATION CODE OR NORTH AMERICAN INDUSTRIAL CLASSIFICATION CODE: ________________________________

EPA MULTI-SECTOR GENERAL PERMIT APPLICABLE TO FACILITY: YES NO

INDIVIDUAL PERMIT REQUIRED: YES NO

CONSTRUCTION DISTURBED AREA: PHASE I: GREATER THAN 5 ACRES PHASE II: BETWEEN 1 TO 5 ACRES

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)
NPDES PERMIT REQUIRED FOR GREATER THAN: ___________ ACRES DISTURBED: YES NO

NOTICE OF INTENT REQUIRED: YES NO

STORM WATER DISCHARGE PERMIT (SWDP) REQUIRED: YES NO

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIRED: YES NO

SPILL PREVENTION, CONTAINMENT AND CONTROL PLAN (SPCC) REQUIRED: YES NO

EROSION CONTROL PLAN REQUIRED (EVEN WITHOUT PERMIT): YES NO

(US LIMIT IS 1 ACRE)

<table>
<thead>
<tr>
<th>NO.</th>
<th>DATE</th>
<th>REVISION DESCRIPTION</th>
<th>BY</th>
<th>APVD.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### TOPOGRAPHICAL AND SURVEY DATA:

- **North American Datum:**
  - [ ] NAD 27
  - [ ] NAD 83
  - [ ] Other: 

- **Plant Datum Elevation:** 
  - [ ] ft = [ ] ft above Mean Sea Level (MSL)

- **Angular Relation Between True North and Plant Descriptive North:** [ ] Deg.

- **Plant Coordinate 0,0:**
  - (Latitude), (Longitude) based on the [ ] coordinate system

- **Plant Benchmark (Survey Monument) Location:**

- **Rights of Way Survey Document Location(s):**

### Wind Direction:

- **Prevailing Wind Direction:**

- **Percent Annually in Each Direction:**
  - [ ]
  - [ ]
  - [ ]
  - [ ]
  - [ ]

- **In Terms Of:**
  - [ ] True North
  - [ ] Plant North

### Temperature:

- **Highest Max. Temperature:** [ ] °F
- **Lowest Min. Temperature:** [ ] °F

- **Average Temperature:**
  - Summer: [ ] °F
  - Winter: [ ] °F

- **HVAC Design Dry Bulb:**
  - Summer: [ ] °F
  - Winter: [ ] °F

- **HVAC Design Wet Bulb:**
  - Summer: [ ] °F
  - Winter: [ ] °F

- **Relative Humidity:**
  - Summer: [ ]%
  - Winter: [ ]%

### Data Source and Location:

- **Source:**
  - [ ] ASHRAE
  - [ ] Owner
  - [ ] Other

### Rainfall:

- **Design Rainfall Intensity:** [ ] Inch/hr, based on a [ ] min. rainfall

- **Design Accumulated 24-Hour Rainfall:** [ ] Inch, based on the [ ] year storm

- **Rainfall Intensity for Evaluation of Potential Flooding:** [ ] Inch/hr, based on a [ ] min. rainfall duration associated with the [ ] year storm

- **Peak Rainy Season for This Plant Site is From (Months):**

- **Average Annual Rainfall:** [ ] inches

### Floods:

- **100-Year Flood Elevation:** [ ] ft above

- **Probable Max. Flood Elev.:** [ ] ft above

### Flood Control District or Watershed Contact:

### Other Flood Elevations Considered at This Plant for Roads, Parking, Areas, and Other Less Critical Areas:

### Wetlands:

- **Location/Limits:**

### Railroads:

- **Railroad Design at This Site Shall Be in Accordance With the Following Railroad Code:**
  - [ ] American Railway Engineers and Maintenance-Of-Way Association (AREMA)
  - [ ] Other:

- **Local Operating Railroad:**

- **Railcar Clearances:**
  - Vertical: [ ] ft
  - Horizontal: [ ] ft from cl of track

- **Minimum Weight and Type Rail:**

- **No. 1 Relay Rail Permitted:**
  - [ ] Yes
  - [ ] No

- **Maximum Track Curvature From Main Line Railroad:**

- **Maximum Track Curvature Within Plant Limits:**
PLANT ROADS AND STREETS:
REFER TO PIP PNE00003, PROCESS UNIT AND OFFSITES LAYOUT GUIDE

ROAD AND STREET DESIGN AT THIS SITE SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODE:
☐ AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)
☐ STATE D.O.T. SPECIFICATION
☐ OTHER: ____________________________________________________________
☐ CRANE LOADING: __________________________________________________

PRIMARY ROADS – MAIN TRAFFIC ROUTES, TANKER AND SEMI-TRAILER TRUCK TRAFFIC OCCURS
ROAD WIDTH: ______________________ FT
SHOULDER WIDTH: ______________________ FT
HORIZONTAL CLEARANCE: ______________________ FT FROM ☐ CENTERLINE, ☐ EDGE OF ROAD
VERTICAL CLEARANCE: ______________________ FT
ROADWAY SURFACE MATERIAL: ________________________________________________

SECONDARY ROADS – REGULAR OPERATIONAL & MAINTENANCE TRAFFIC, NOT SUBJECT TO HIGH TRAFFIC
ROAD WIDTH: ______________________ FT
SHOULDER WIDTH: ______________________ FT
HORIZONTAL CLEARANCE: ______________________ FT FROM ☐ CENTERLINE, ☐ EDGE OF ROAD
VERTICAL CLEARANCE: ______________________ FT
ROADWAY SURFACE MATERIAL: ________________________________________________

ACCESSWAYS - TRAVEL WAYS THAT PROVIDE ACCESS TO EQUIPMENT OR CONGESTED AREAS
MIN. SINGLE LANE WIDTH: ______________________ FT
SHOULDER WIDTH: ______________________ FT
HORIZONTAL CLEARANCE: ______________________ FT FROM ☐ CENTERLINE, ☐ EDGE OF ROAD
VERTICAL CLEARANCE: ______________________ FT
ROADWAY SURFACE MATERIAL: ________________________________________________

ROUTES WITH SPECIAL VEHICLES OR REQUIREMENTS SUCH AS OVER WEIGHT, OVER HEIGHT, HEAVY WHEEL LOADINGS, AND ETC.
HEAVY FORKLIFTS: MAKE AND MODEL: ______________________ WEIGHT: ___________ HEIGHT: ___________ WIDTH: ___________

HEAVY HAUL OR OVER SIZE HAUL ROUTE TO PLANT: ____________________________________________________________
EMERGENCY/EVACUATION ROUTE FROM PLANT: ____________________________________________________________
BRIDGES/CULVERT RESTRICTIONS DUE TO LOAD CAPACITY OR OVER WIDTH: (PROVIDE LOCATION AND RESTRICTION BELOW):
________________________________________________________________________________________________________
________________________________________________________________________________________________________

WATER DISTRIBUTION:
COOLING WATER: _____ PSI FLOW RATE: _____ GPM SOURCE: ________________________________
POTABLE WATER: _____ PSI FLOW RATE: _____ GPM SOURCE: ________________________________
FIRE WATER: _____ PSI FLOW RATE: _____ GPM SOURCE: ________________________________
OTHER: _____ PSI FLOW RATE: _____ GPM SOURCE: ________________________________
WIND LOADS:
MINIMUM DESIGN WIND LOADS AT THIS SITE SHALL BE COMPUTED IN ACCORDANCE WITH THE FOLLOWING CODE, USING THE SITE SPECIFIC PARAMETERS INDICATED BELOW:

- ASCE/SEI 7-
  “MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES”
- OTHER:

BASIC WIND SPEED:
MPH
3-SECOND GUST
FASTEST MILE
OTHER:

RECURRENCE INTERVAL:
50 YEAR
100 YEAR
OTHER:

EXPOSURE CATEGORY:
B
C
D
OTHER:

IMPORTANCE FACTOR:
I:

TOPOGRAPHIC FACTOR:
K:
SEE PROJECT DATA SHEET
N/A
OTHER:

HURRICANE PRONE REGION:
YES
NO
DISTANCE FROM COAST LINE:
SPECIAL WIND REGION:
YES
NO
CONDITIONS:

EARTHQUAKE LOADS:
MINIMUM DESIGN SEISMIC LOADS AT THIS SITE SHALL BE COMPUTED IN ACCORDANCE WITH THE FOLLOWING CODE, USING THE SITE SPECIFIC PARAMETERS INDICATED BELOW:

- ASCE/SEI 7-
  “MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES”
- OTHER W/ YEAR:

SEISMIC CODE NAME & YEAR:
BUILDING CODE INDICATED ABOVE
OTHER W/ YEAR:

FOR ASCE/SEI 7 AND OTHER CODES BASED ON NEHRP PROVISIONS:
PROPER SELECTION OF IMPORTANCE FACTOR FOR OCCUPANCY CATEGORY (ASCE/SEI 7 TABLE 1-1) SHALL BE MADE.
SITE SPECIFIC SEISMIC HAZARD ASSESSMENT PERFORMED?
YES
NO
REFERENCE:
IMPORTANCE FACTOR (I) =
SITE CLASS:
A
B
C
D
E
F

0.2 S SPECTRAL RESPONSE ACCELERATION (S0) =
1.0 S SPECTRAL RESPONSE ACCELERATION (S1) =
FOR OTHER CODES:

SNOW LOADS:
MINIMUM DESIGN SNOW LOADS AT THIS SITE SHALL BE COMPUTED IN ACCORDANCE WITH THE FOLLOWING:
PROPER SELECTION OF IMPORTANCE FACTOR FOR OCCUPANCY CATEGORY (ASCE/SEI 7 TABLE 1-1) SHALL BE MADE.

- ASCE/SEI 7-
  “MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES”
- BUILDING CODE INDICATED ABOVE
- OTHER W/ YEAR:

GROUND SNOW LOAD:
PSF, 50-YEAR MEAN RECURRENCE INTERVAL

SOIL PROPERTIES:
- PROJECT DATA SHEET
- OTHER:

FROST DEPTH:
SITE FROST DEPTH:
FT BELOW GRADE
PERMAFROST THICKNESS:
FT
ACTIVE LAYER THICKNESS:
FT (TUNDRA)
FACILITY NAME/LOCATION: 

BUILDING CODE: 

DESIGN AT THIS PLANT SITE SHALL BE IN ACCORDANCE WITH THE FOLLOWING BUILDING CODE(S): 

☐ INTERNATIONAL BUILDING CODE (IBC) 
☐ NFPA 101, LIFE SAFETY CODE (LSC) 
☐ OTHER: 
☐ NONE

YEAR OF LOCALLY ADOPTED EDITION 

OWNER’S LIAISON WITH BUILDING AUTHORITY: 

NAME: ___________________________ PHONE: ___________________________

LOCAL BUILDING AUTHORITY: 

NAME: ___________________________ ADDRESS: ___________________________ 
PHONE/FAX: ______________________ CONTACT: ________________________

STATE OR OTHER FIRE AUTHORITY: 

NAME: ___________________________ ADDRESS: ___________________________ 
PHONE/FAX: ______________________ CONTACT: ________________________

STORM WATER GOVERNING AUTHORITY: 

NAME: ___________________________ ADDRESS: ___________________________ 
PHONE/FAX: ______________________ CONTACT: ________________________

FACULTY STANDARD INDUSTRIAL CLASSIFICATION CODE: 

ENVIRONMENTAL AGENCY GENERAL PERMIT APPLICABLE TO FACILITY: 

INDIVIDUAL PERMIT REQUIRED: 

CONSTRUCTION DISTURBED AREA: PHASE I: GREATER THAN 2.0 HECTARES PHASE II: BETWEEN 0.2 TO 2.0 HECTARES 

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) EQUIVALENT: 

NPDES PERMIT REQUIRED FOR GREATER THAN: ___________ HECTARES DISTURBED: 

NOTICE OF INTENT REQUIRED: 

STORM WATER DISCHARGE PERMIT (SWDP) REQUIRED: 

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIRED: 

SPILL PREVENTION, CONTAINMENT AND CONTROL PLAN (SPCC) REQUIRED: 

EROSION CONTROL PLAN REQUIRED (EVEN WITHOUT PERMIT): 

(US LIMIT IS 1 ACRE or 0.4 HECTARES) 

<table>
<thead>
<tr>
<th>NO.</th>
<th>DATE</th>
<th>REVISION DESCRIPTION</th>
<th>BY</th>
<th>APVD.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## TOPOGRAPHICAL AND SURVEY DATA:

- **NORTH AMERICAN DATUM:**
- **PLANT DATUM ELEVATION:** M above Mean Sea Level (MSL)
- **ANGULAR RELATION BETWEEN TRUE NORTH AND PLANT DESCRIPTIVE NORTH:** Deg.
- **PLANT COORDINATE 0,0 =** (Latitude), (Longitude) based on the coordinate system
- **PLANT BENCHMARK (SURVEY MONUMENT) LOCATION:**
- **RIGHTS OF WAY SURVEY DOCUMENT LOCATION(S):**

## WIND DIRECTION:

- **PREVAILING WIND DIRECTION:**
- **PERCENT ANNUALLY IN EACH DIRECTION:** %
- **IN TERMS OF:** True North or Plant North

## TEMPERATURE:

- **HIGHEST MAX. TEMPERATURE:** °C
- **LOWEST MIN. TEMPERATURE:** °C
- **AVERAGE TEMPERATURE:** Summer: °C, Winter: °C
- **HVAC DESIGN DRY BULB:** Summer: °C, Winter: °C
- **HVAC DESIGN WET BULB:** Summer: °C, Winter: °C
- **RELATIVE HUMIDITY:** Summer: %, Winter: %

## RAINFALL:

- **DESIGN RAINFALL INTENSITY:** mm/hr, based on a min. rainfall duration period associated with the -year storm
- **DESIGN ACCUMULATED 24-HOUR RAINFALL:** mm, based on the -year storm
- **RAINFALL INTENSITY FOR EVALUATION OF POTENTIAL FLOODING:** mm, based on a min. rainfall duration associated with the -year storm
- **PEAK RAINY SEASON FOR THIS PLANT SITE IS FROM** (MONTHS) **TO**
- **AVERAGE ANNUAL RAINFALL:** millimeters

## FLOODS:

- **100-YEAR FLOOD ELEVATION:** M above
- **PROBABLE MAX. FLOOD ELEV.:** M above
- **FLOOD CONTROL DISTRICT OR WATERSHED CONTACT:**

## WETLANDS:

- **LOCATION/LIMITS:**

## RAILROADS:

- **RAILROAD DESIGN AT THIS SITE SHALL BE IN ACCORDANCE WITH THE FOLLOWING RAILROAD CODE:**
  - American Railway Engineering and Maintenance-of-Way Association (AREMA)
  - Other
- **RAILCAR CLEARANCES:** Vertical: M, Horizontal: M from centerline of track
- **MINIMUM WEIGHT AND TYPE RAIL:**
- **NO. 1 RELAY RAIL PERMITTED:** Yes, No
- **MAXIMUM TRACK CURVATURE FROM MAIN LINE RAILROAD:**
- **MAXIMUM TRACK CURVATURE WITHIN PLANT LIMITS:**
PLANT ROADS AND STREETS:
REFER TO PIP PN00003, PROCESS UNIT AND OFFSITE LAYOUT GUIDE

ROAD AND STREET DESIGN AT THIS SITE SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODE:
☐ AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)
☐ LOCAL D.O.T. SPECIFICATION
☐ OTHER: ____________________________________________
☐ CRANE LOADING: __________________________________

PRIMARY ROADS – MAIN TRAFFIC ROUTES, TANKER AND SEMI-TRAILER TRUCK TRAFFIC OCCURS
ROAD WIDTH: ______________________ mm
SHOULDER WIDTH: ______________________ mm
HORIZONTAL CLEARANCE: ______________________ mm FROM ☐ CENTERLINE, ☐ EDGE OF ROAD
VERTICAL CLEARANCE: ______________________ mm
ROADWAY SURFACE MATERIAL: _________________

SECONDARY ROADS – REGULAR OPERATIONAL & MAINTENANCE TRAFFIC, NOT SUBJECT TO HIGH TRAFFIC
ROAD WIDTH: ______________________ mm
SHOULDER WIDTH: ______________________ mm
HORIZONTAL CLEARANCE: ______________________ mm FROM ☐ CENTERLINE, ☐ EDGE OF ROAD
VERTICAL CLEARANCE: ______________________ mm
ROADWAY SURFACE MATERIAL: _________________

ACCESSWAYS - TRAVEL WAYS THAT PROVIDE ACCESS TO EQUIPMENT OR CONGESTED AREAS
MIN. SINGLE LANE WIDTH: ______________________ mm
SHOULDER WIDTH: ______________________ mm
HORIZONTAL CLEARANCE: ______________________ mm FROM ☐ CENTERLINE, ☐ EDGE OF ROAD
VERTICAL CLEARANCE: ______________________ mm
ROADWAY SURFACE MATERIAL: _________________

ROUTES WITH SPECIAL VEHICLES OR REQUIREMENTS SUCH AS OVER WEIGHT, OVER HEIGHT, HEAVY WHEEL LOADINGS, AND ETC.
HEAVY FORKLIFTS: MAKE AND MODEL: ______________________ WEIGHT: ___________ HEIGHT: ___________ WIDTH: ___________

HEAVY HAUL OR OVER SIZE HAUL ROUTE TO PLANT: ______________________________________________________
EMERGENCY/EVACUATION ROUTE FROM PLANT: ____________________________________________________________
BRIDGES/CULVERT RESTRICTIONS DUE TO LOAD CAPACITY OR OVER WIDTH: (PROVIDE LOCATION AND RESTRICTION BELOW):
__________________________________________________________________________________
__________________________________________________________________________________

WATER DISTRIBUTION:
COOLING WATER: ___________ KPA FLOW RATE: ___________ LPM SOURCE: _____________________________
POTABLE WATER: ___________ KPA FLOW RATE: ___________ LPM SOURCE: _____________________________
FIRE WATER: ___________ KPA FLOW RATE: ___________ LPM SOURCE: _____________________________
OTHER: ___________ ___________ KPA FLOW RATE: ___________ LPM SOURCE: _____________________________
### Wind Loads:

Minimum design wind loads at this site shall be computed in accordance with the following code, using the site specific parameters indicated below:

- **ASCE/SEI 7-**
- **Other:** *Minimum Design Loads for Buildings and Other Structures*

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Option</th>
<th>Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Wind Speed (km/hr)</td>
<td>Basic Wind Speed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recurrence Interval</td>
<td>Recurrence Interval</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exposure Category</td>
<td>Exposure Category</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Importance Factor</td>
<td>Importance Factor</td>
<td>Iᵢₚ</td>
<td>See Project Data Sheet</td>
</tr>
<tr>
<td>Topographic Factor</td>
<td>Topographic Factor</td>
<td>K₂₁</td>
<td>See Project Data Sheet</td>
</tr>
<tr>
<td>Hurricane Prone Region</td>
<td>Hurricane Prone Region</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>Special Wind Region</td>
<td>Special Wind Region</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>Other</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

### Earthquake Loads:

Minimum design seismic loads at this site shall be computed in accordance with the following code, using the site specific parameters indicated below:

- **ASCE/SEI 7-**
- **Other:** *Minimum Design Loads for Buildings and Other Structures*

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Option</th>
<th>Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seismic Code Name &amp; Year</td>
<td>Seismic Code Name &amp; Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Building Code Indicated Above</td>
<td>Building Code Indicated Above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other W/ Year</td>
<td>Other W/ Year</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For ASCE/SEI 7 and other codes based on NEHRP provisions:

- Proper selection of Importance Factor for Occupancy Category (ASCE/SEI 7 Table 1-1) shall be made
- Site specific seismic hazard assessment performed? Yes

<table>
<thead>
<tr>
<th>Importance Factor (I)</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Class</td>
<td>Site Class</td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>0.2 S Spectral Response Acceleration (S₂)</td>
<td>0.2 S Spectral Response Acceleration (S₂)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0 S Spectral Response Acceleration (S₁)</td>
<td>1.0 S Spectral Response Acceleration (S₁)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Snow Loads:

Snow loads at this site shall be computed in accordance with the following:

- **ASCE/SEI 7-**
- **Building Code Indicated Above**
- **Other W/ Year:**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Option</th>
<th>Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground Snow Load</td>
<td>Ground Snow Load</td>
<td>KPA</td>
<td>50-Year Mean Recurrence Interval</td>
</tr>
</tbody>
</table>

### Soil Properties:

- **Project Data Sheet**
- **Other:**

### Frost Depth:

- **Site Frost Depth:** mm below grade
- **Permafrost Thickness:** mm
- **Active Layer Thickness:** mm (Tundra)