De hoofdverdeling van een planning kan er als volgt uitzien:

- **MILESTONES**
- **PERMITS**
- **DESIGN REVIEWS**
- **FRONT END LOADING (FEL)** (basic engineering)
- **COST ESTIMATE**
- **DETAIL ENGINEERING**
- **PROCUREMENT**
- **CONTRACTS**
- **CONSTRUCTION**
- **COMMISSIONING**

Daarna volgt de subverdeling. Veel taken in de subverdeling zijn repeterende taken. Om een indruk te geven van de repeterende taken volgt hier een overzicht van meest voorkomende repeterende taken in een engineering/Construction planning. Voor de gebruikte afkortingen zie overzicht aan het einde van dit document.

### MILESTONES
- FEL start date
- Building permit granted
- Start piling works
- Mechanical Completion
- Beneficial operation

### PERMITS
- Environmental permit
- Wm permit revision existing plant
- Revised permit - for public views
- Public view period
- Wm permit revision existing plant granted
- Wm permit project ...........
- Anouncement of project ........... (concept)
- Anouncement of project ........... (formal)
- Authority approval period
- Anouncement project ............. granted
- Public view period
- Building permit – project ...........
- Pre-meeting with Authorities
- Building permit application
- Authority approval period
- Building permit granted
- Public view period

### DESIGN REVIEWS
- EHS reviews
FRONT END LOADING
Hazard study
Relief philosophy
SIS/LOPA study
EHS criticality study
Cable routing philosophy
Paving and drainage / fire water run-off
Fire prevention & protection
Execution phase
S&H risk inventory and evaluation
HAZCON
Relief & Blowdown studies
Area classification (RI&E ATEX)
Hazard study (PSSR)
Hazard study (Post Project Verification)
CHAZOP

COST ESTIMATE
Obtain budget quotations (where necessary)
Prepare cost estimate +/-10%
Review / validate cost estimate
Incorporate comments
Determine engineering costs execution phase
Final issue cost estimate +/-10%

DETAIL ENGINEERING
3D design
Studying, routing
Modeling pipes
Supporting
Implementation latest vendor info
Pipe stress calculations
P&ID check
Database populated with line details
Clash check
nn% model review

Piping Specialties
Technical specification
Document requirements
Requisition document
Review / validation
Incorporate comments
Issue for inquiry
Technical evaluation of bids
Update for purchase
Issue for purchase

Installation Contracts
ISBL
Technical specification
Review / validate
Incorporate comments
Issue for tender
Technical evaluation of tenders
Update RFC
Issue RFC

Connectivity diagrams
Motor drawers
Review / validate
Incorporate comments
Issue for tender
Update RFC
Issue RFC

Specifications and requisitions
Transformers
Technical specification
Document requirements
Requisition document
Review / validation
Incorporate comments
Issue for inquiry
Technical evaluation of bids
Update for purchase
Issue for purchase

INSTRUMENTATION
Diagrams / lists / design drawings
Preparation
Review / validation
Incorporate comments
Issue for tender
Update RFC
Issue RFC

Requisitions (in line and equipment instruments)
Flow instruments
Populate SIR database / produce data sheet
Technical specification
Document requirements
Requisition document
Review / validation
Incorporate comments
Issue for inquiry
Technical evaluation of bids
Update for purchase
Issue for purchase
**CIVIL**

**Piling contract**
- Final load calculations
- Piling drawings
- Prepare technical specification
- Review / validate
- Incorporate comments
- Issue for inquiry
- Technical evaluation of bids
- Update for order
- Issue for order
- Authority approval of details
- Detailed engineering contractor

**Civil package .....................**
- Concrete drawings
- Steel drawings
- Platform drawings
- Reinforcement drawings
- Other detail drawings (anchor plans, etc.)
- Issue for order
- Authority approval of details

**Package OSBL Civil**

**For tender**
- Concrete drawings
- Technical specification
- Review / validation
- Incorporate comments
- Issue for tender
- Technical evaluation of tenders

**RFC**
- Update Tender documents to RFC
- Reinforcement drawings
- Other detail drawings (anchor plans, etc.)
- Issue for order
- Authority approval of details
PROCUREMENT EQUIPMENT

Field fabricated equipment
- Request for quotation
- Bidding period
- Commercial evaluation
- Bid tab
- ATO
- Negotiations
- Purchase order

Vendor documents
- Piping studies
- Preliminary vendor docs
- Commenting
- Processing of comments
- Review & approval
- GA drawings RFC

Other equipment
- Request for quotation
- Bidding period
- Commercial evaluation
- Bid tab
- ATO
- Negotiations
- Purchase order

Delivery time
- Delivery on site

Vendor documents
- Piping studies
- Preliminary vendor docs
- Commenting
- Processing of comments
- Review & approval
- GA drawings RFC

Piping Specialties
- Request for quotation
- Bidding period
- Commercial evaluation
- Purchase order
- Delivery time
- Delivery on site

Vendor documents
- Preliminary dimensional sketches
- Preliminary vendor docs
- Commenting
- Processing of comments
- Review & approval
- Final vendor documents
CONTRACTS

Site preparation contract
  Request for tender
  Tender period
  Commercial evaluation
  Order award
  Delivery time

Civil contract - package .................
  Request for tender
  Tender period
  Commercial evaluation
  Order award

CONSTRUCTION

Construction activities

COMMISSIONING

Commissioning activities
### Afkortingen

Veel voorkomende afkortingen in een planning zijn:

<table>
<thead>
<tr>
<th>Afkorting</th>
<th>Uitleg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATEX</td>
<td>Atmosphère Explosives</td>
</tr>
<tr>
<td>ATO</td>
<td>Autorisation To Order</td>
</tr>
<tr>
<td>CHAZOP</td>
<td>Control Hazard and Operability</td>
</tr>
<tr>
<td>EHS</td>
<td>Environmental Health Safety</td>
</tr>
<tr>
<td>FEL</td>
<td>Front End Loading</td>
</tr>
<tr>
<td>GA</td>
<td>General Arrangement</td>
</tr>
<tr>
<td>HAZCON</td>
<td>Hazards in Construction</td>
</tr>
<tr>
<td>HAZDEM</td>
<td>Hazards in Demolition</td>
</tr>
<tr>
<td>HAZOP</td>
<td>Hazard and Operability</td>
</tr>
<tr>
<td>ISBL</td>
<td>Insite Battery Limit</td>
</tr>
<tr>
<td>LOPA</td>
<td>Layers Of Protection Analysis</td>
</tr>
<tr>
<td>RFC</td>
<td>Released For Construction</td>
</tr>
<tr>
<td>RFD</td>
<td>Released For Design</td>
</tr>
<tr>
<td>RI&amp;E</td>
<td>Risico Inventarisatie &amp; Evaluation</td>
</tr>
<tr>
<td>SIL</td>
<td>Safety Integrity Level</td>
</tr>
<tr>
<td>SIS</td>
<td>Safety Integrity System</td>
</tr>
<tr>
<td>S&amp;H</td>
<td>Safety &amp; Held</td>
</tr>
<tr>
<td>OSBL</td>
<td>Outsite Battery Limit</td>
</tr>
<tr>
<td>PSSR</td>
<td>Pre Startup Safety Review</td>
</tr>
<tr>
<td>P&amp;ID (PID)</td>
<td>Piping &amp; Instrument Diagram</td>
</tr>
<tr>
<td>R&amp;B</td>
<td>Relive &amp; Blowdown</td>
</tr>
<tr>
<td>TRA</td>
<td>Taak Risico Analyse</td>
</tr>
<tr>
<td>UFD</td>
<td>Utility Flow Diagram</td>
</tr>
<tr>
<td>WABO</td>
<td>Wet Algemene Bepalingen Omgevingsrecht     (loket bouwvergunningen)</td>
</tr>
<tr>
<td>WM</td>
<td>Wet Milieubeheer</td>
</tr>
</tbody>
</table>