Project Details

Customer	NOURYON INDUSTRIAL CHEMICALS B.V.	**Project No.**	NR1038
Project Title	Brine Field Project - Haaksbergen	**Calc No.**	1.333.464
Calculation Title	Degasser and Blanketing Oil Pit	**Phase/CTR**	Execute
Elec File Location	NR1038/C.05/0025		

Rev	Date	By	Checked	Rev	Date	By	Checked	Rev	Date	By	Checked
A	31-May-21	5.	5.								

Calculation Objective

The objective of this calculation report is to present calculation for Degasser and Blanketing Oil Pit for the Execute phase of the project.

Calculation Method

Calculation is presented by using simple explanatory template.

Assumptions

The assumptions are presented in Calculation report.

Software Used

Title: Staad.Pro Connect Edition. **Version:** V22 update 5 **Validation: (Y / N / N/A)**

References

NR1038/C.07/0001 - Design Criteria

Conclusions

Refer section 8.0.

Related to a Safety Critical System? **No** Status of Supplier Data used **N/A**

HOLDS

None

A	31-MAY-21	Issue for Building Permit	5.1.2.e	5.1.2.e	5.1.2.e
	Date	**Description**	**By**	**Checked**	**Approved**

This Calculation represents the work of Worley performed to recognized engineering principles and practices appropriate for the terms of reference provided by Worley contractual Customer. This Calculation is confidential and prepared solely for the use of the Customer. The contents of this Calculation may not be disclosed to or relied upon by any party other than the Customer, and neither Worley, its subconsultants nor their respective employees assume any liability for any reason, including, but not limited to, negligence, to any other party for any information or representation herein.

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A	31-May-21	5.1	5.								

Please check boxes for all applicable items checked or mark as "N/A" if not appropriate:

Calculations:

Originator	Checker	
☒	☒	Calculation number assigned and registered (refer to project numbering system or Document Number Standard (MS-DP-STD-0009 for format).
☒	☒	All required information on Cover Sheet provided
☒	☒	Revision history box complete and signed. (Typed names (minimum of first initial and surname e.g. A. Wood) of Originator, Checker, Approver to be initialed beside at sign-off) (Dates in standard format (DD-MMM-YY))
☒	☒	Table of Contents.
☒	☒	Appropriate stamp for preliminary issues.
☒	☒	Source of input data stated (with revision number and date if relevant).
☒	☒	Customer's requirements included/addressed.
☒	☒	Approach used is appropriate for problem being solved.
☒	☒	Method clear and easy to follow.
☒	☒	Input data correct.
☒	☒	Calculation is arithmetically correct, OR software previously verified and reference to verification checked.
☒	☒	Calculation result within expected limits.
☒	☒	Calculation tolerances stated if significant.
☒	☒	Units used as required by customer. Unit conversions correctly performed.
☒	☒	Appropriate cross-references.
☒	☒	Sketches included and clearly labeled, where required.
☒	☒	Appendices included and referenced, as required.
☒	☒	Considered design reviews, HAZOP actions, Customer input, safety and environmental issues, etc.

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Rev	Date	By	Checked	Rev	Date	By	Checked	Rev	Date	By	Checked
A	31-May-21	5.1	5.								

Please check boxes for all applicable items checked or mark as "N/A" if not appropriate:

☒	☒	Safety in Design (SID) and Sustainable Design are addressed. Refer relevant SID Discipline Standard.
☒	☒	Conclusions and recommendations are appropriate.

Checking records:

☒	☒	Checked and annotated copy of calculation filed (use "Doc Check Print" stamp).
☒	☒	Corrections made as required and calculation dated and signed on cover sheet by checker.
☒	☒	Alternative method calculation and/or representative check performed and filed, as required.

Revisions:

☒	☒	Changes clouded, tracked or highlighted.
☒	☒	Revision history block updated.
☒	☒	Calculation re-checked if required.

Project Details

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Appendices

Appendix A. [Staad Pro Input File]

1. INTRODUCTION

1.1 General

The overall scope of the Haaksbergen Brinefield comprises a range of greenfield installations. The general layout scope of work is divided into the following main areas:

Pump station plot
Well pads & above ground
Works at Ganzebos
Transport trenches
Hengelo works

Site Location

The new Pump House as part of the Haaksbergen (HKS) Brine Field Project is being executed north of the town of Haaksbergen in the Netherlands. It concerns a triangular plot on the “Stepelerveld” industrial park to the west of the company Uzin UTz Nederland.

To the north & west of the new Pump House, the new drilling sites will be developed in phases. For this project, 7 so-called well pads (drilling locations) will be included (numbers 1 to 7). The degasser and Blanketing Oil Pit is Located to North of Pump House Building.

1.2 Degasser and Blanketing Oil Pit

This report consists of Loading calculations and design checks for a Degasser and Blanketing Oil Pit highlighted in blue.

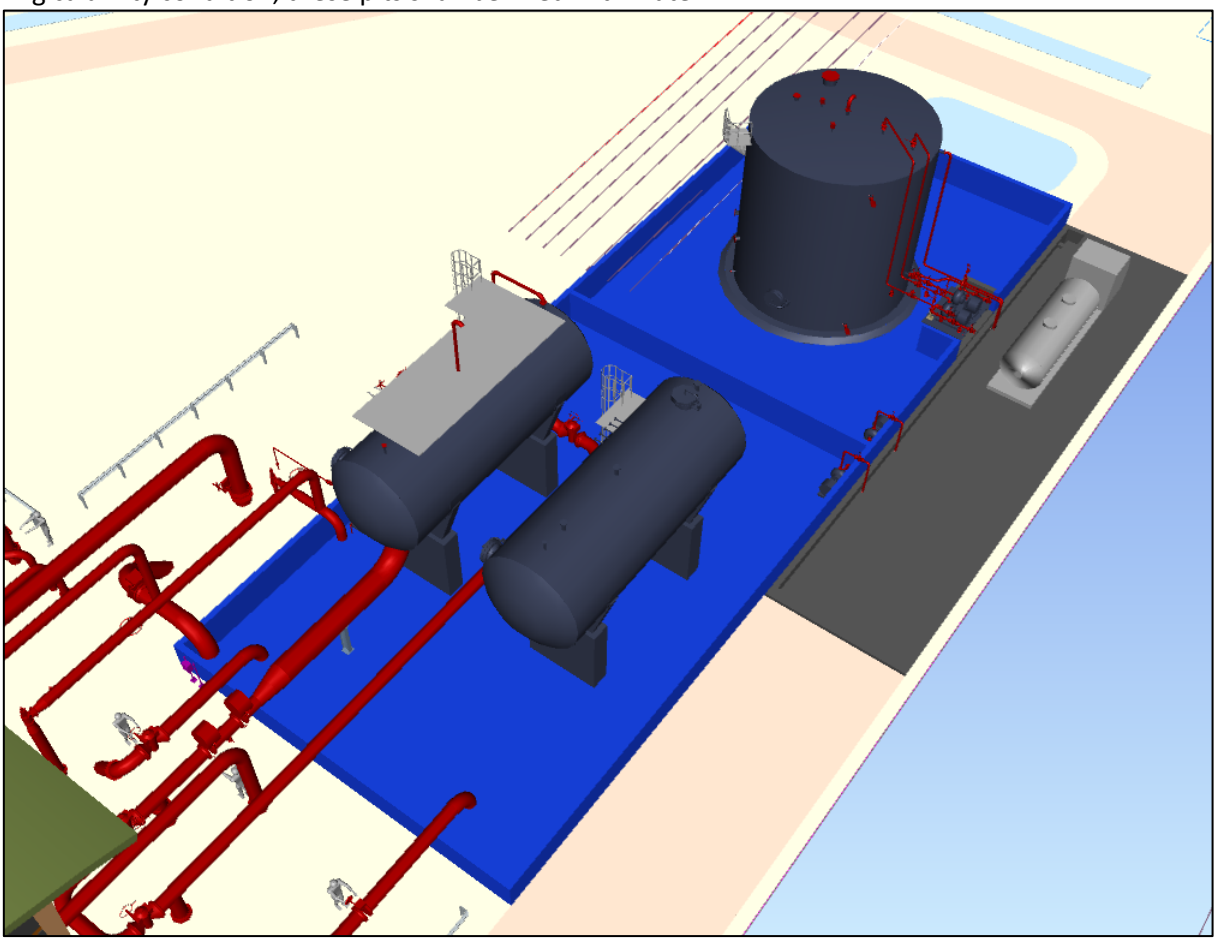
The plan dimensions of the pit are

Length - 42.1 m (Along North South)

Width - 15.4 m (Along East West)

Clear depth - 1.50 m, height 1.2 m aboveground

During calamity condition, these pits shall be filled with water.



The ground water table is approximately assumed at 2 meters below natural ground level, and the depth of tank being 2 meters below ground, the buoyancy check is not required to be carried out.

2. DESIGN DATA

REFERENCE DOCUMENTS

VN-77421-2, Rev 6 Funderingsadvises, dated 3rd may 2021.

DESIGN DATA FOR CONCRETE

Concrete grade	C30/37
Reinforcement	B500B (minimum yield stress = 500 N/mm^2)
Environmental class	XC4 Carbonation induced corrosion XD2 Cloride induced corrosion XS1 Cloride induced corrosion from sea water XF3 Freez & Thow attack XA2 Chemical Attack
Concrete cover	50 mm
Allowable crack width	max. 0.2 mm
Density concrete	ρ = 25 kN/m^3
Construction Class	S4

FACTOR OF SAFTY

Foundation Uplift - 1.2 (Against unfactored buoyant force)

CALCULATION METHOD

Linear elastic analysis of member forces according first order effect.

DESIGN WORKING LIFE

Working life category	4
Design working life	50 years
Consequence class	CC3
Reliability class	RC3

EURO CODES AND OTHER REGULATIONS

Eurocodes

NEN EN 1990	Basis of structural design
NEN EN 1991-1-1	Actions on Structures– part 1: General actions
NEN 1992-1-1	Design of concrete structures
NEN EN 206-1	Concrete - Specification, performance, production and conformity

Nouryon Standards

2.176.109 Rev B	Technical Requirements for designing concrete structures
1.761.916 Rev D	Loading and deformations for the calculations of Building Structures

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ASSUMPTION LIST

1. Pile Capacities and Spring constants = As per table given below (Ultimate Capacities)
2. Ground water table = 2 mts below natural ground level. (No Buoyancy check required)
3. Angle of friction for soil (ϕ) = 30 degree.
4. Shape Coefficients for Wind Loads considered
   a. Cylindrical surfaces = 0.7
   b. Flat surfaces = 2.0
5. Degasser Equipment Friction Load = 10% of Vertical Load.
6. In the absence of data, for both equipments test weight is considered as same as operating weight.
7. Allowable Pile settlement = 10 mm (Under SLS Load Combinations)
8. Modulus of Elasticity of concrete = 2.17 x E7 kN/m^2. (Program default)
9. Calamity conditions
   a. Cal – 1 : Degasser Equipments empty + Degasser Pit filled with Brine water + Blanketing Oil Tank Operating + Blanketing oil Pit Empty.
   b. Cal – 2 : Degasser Equipments Operating + Degasser Pit empty + Blanketing Oil Tank empty + Blanketing oil Pit filled (with water).
   c. Cal – 3 : Degasser Equipments empty + Degasser Pit filled with Brine water + Blanketing Oil Tank empty + Blanketing oil Pit filled (with water).
10. Piles are considered pinned at the Top.
11. Pile Lateral/Shear Capacity and Tension Capacity....
12. Maximum factored compression Capacity of considered for design

Blanketing Oil Tank			
Capacities at EL.		16.5	m
	Diameter (mm) / Capacity (kN)		
	380	450	540
CPT - 09	1006.4	873.2	1096.4
CPT - 10	587.1	864.6	1110.8
CPT - 11	456.3	633.2	813.4
CPT - 12	549.8	698.1	875.4
Maximum Factored Compression Capacity considered for design	649	767	973

Degasser Tank			
Capacities at EL.		16.5	m
	Diameter (mm) / Capacity (kN)		
	380	450	540
CPT - 07	879.8	1267.2	1227.7
CPT - 08	880.7	934.7	1062.5
CPT - 09	1006.4	873.2	1096.4
CPT - 10	587.1	864.6	1110.8
Maximum Factored Compression Capacity considered for design	838	984	1124

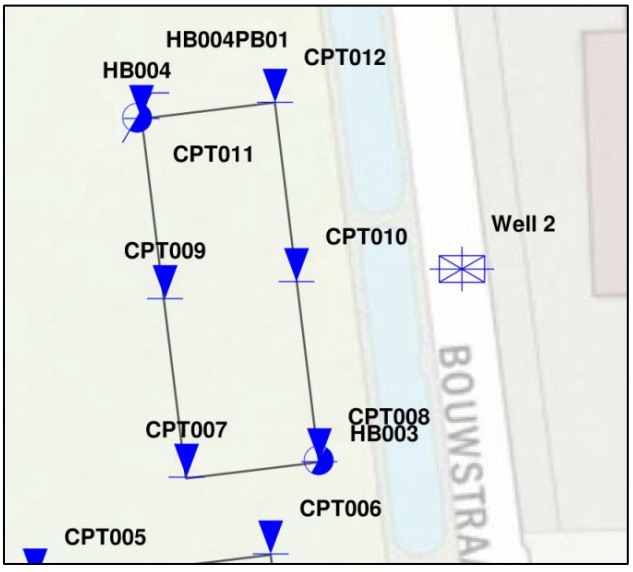
Table 5.3: Vertical axial spring values - Fundex og

Probing	Spring value		ø380 mm [kN / mm]	ø450 mm [kN / mm]	ø540 mm [kN / mm]
CPT001 to CPT020	$k_{v;\ static;\ rep}$		45 to 55	55 to 65	70 to 80
	$k_{v;\ static;\ d}$		35 to 42	42 to 50	53 to 62
	$k_{v;\ dynamic;\ rep}$	lower limit	90 to 110	110 to 130	140 to 160
		upper limit	225 to 275	275 to 325	350 to 400
	$k_{v;\ dynamic;\ d}$	lower limit	70 to 84	84 to 100	107 to 123
		upper limit	175 to 210	210 to 250	269 to 307

Table 5.4: Horizontal spring values - Fundex og

Diameter	Situation Pile head	$F_{tr;d}$ [kN]	YOU $_d$ [mm]	static		dynamic	
				$k_{hor;\ static;\ d}$ kN / mm	$k_{hor;\ static;\ rep}$ [kN / mm]	$k_{hor;\ dynamic;\ d}$ [kN / mm]	$k_{hor;\ dynamic;\ rep}$ [kN / mm]
Ø380	Hinge	10	3.44	2.9	3.8	5.8 to 14.5	7.6 to 19.0
	Wedged in		1.30	7.7	10.0	15.4 to 38.5	20.0 to 50.0
Ø450	Hinge	10	2.64	3.8	4.9	7.6 to 19.0	9.8 to 24.5
	Wedged in		1.01	9.9	12.9	19.8 to 49.5	25.8 to 64.5
Ø540	Hinge	10	2.06	4.8	6.2	9.6 to 24.0	12.4 to 31.0
	Wedged in		0.79	12.6	16.4	25.2 to 63.0	32.8 to 82.0

Pile Spring constants adopted



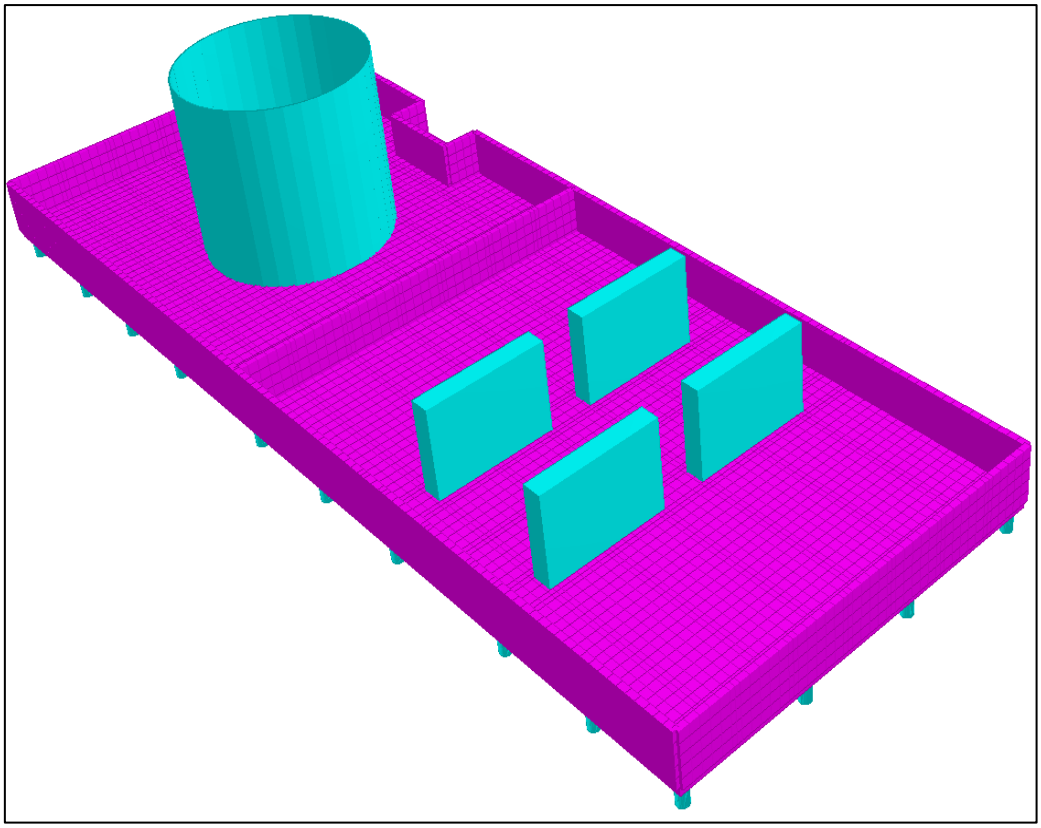
CPT locations

13. Earth quake analysis not performed as the site is loacated in low seismicity Zone.
14. Snow Load not considered as it will not govern.

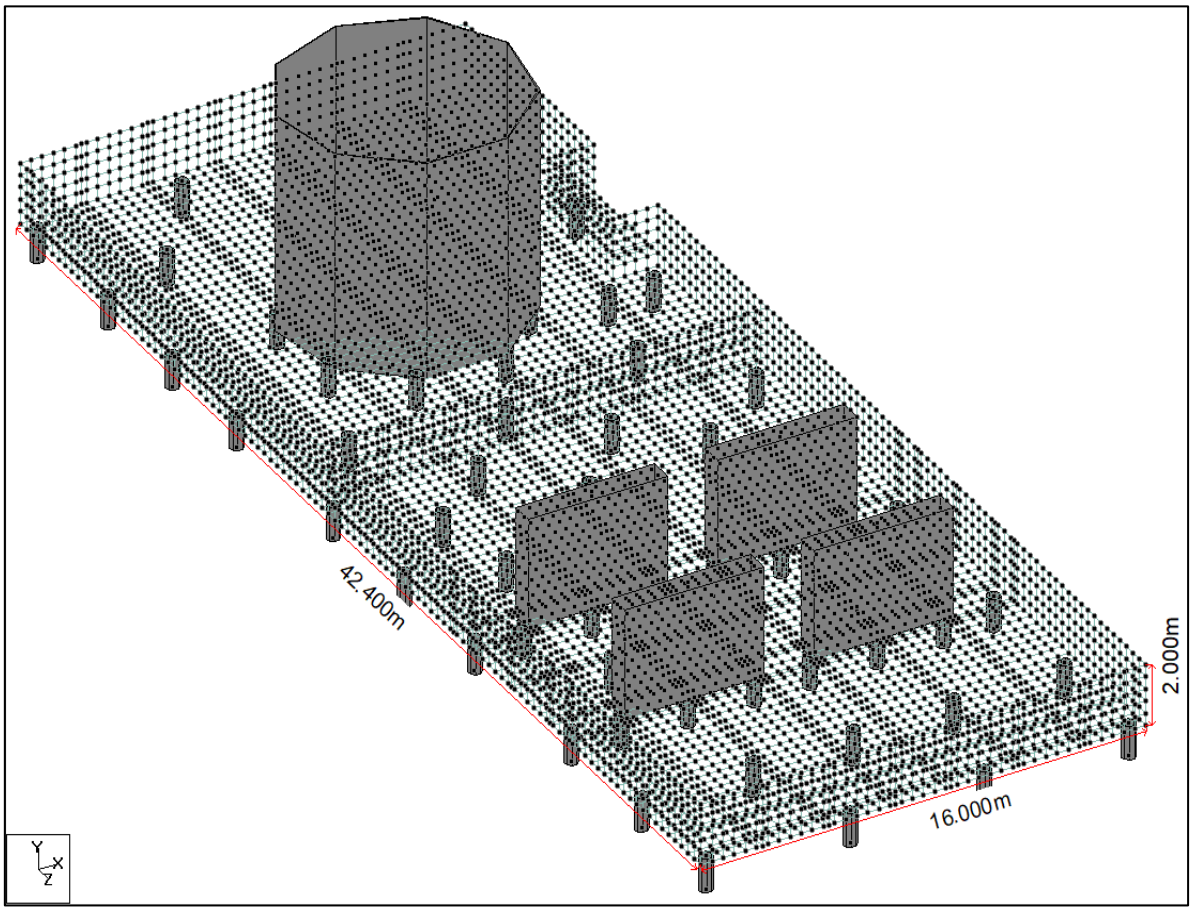
3. MODELLING PHILOSOPHY

3.1 Staad Model

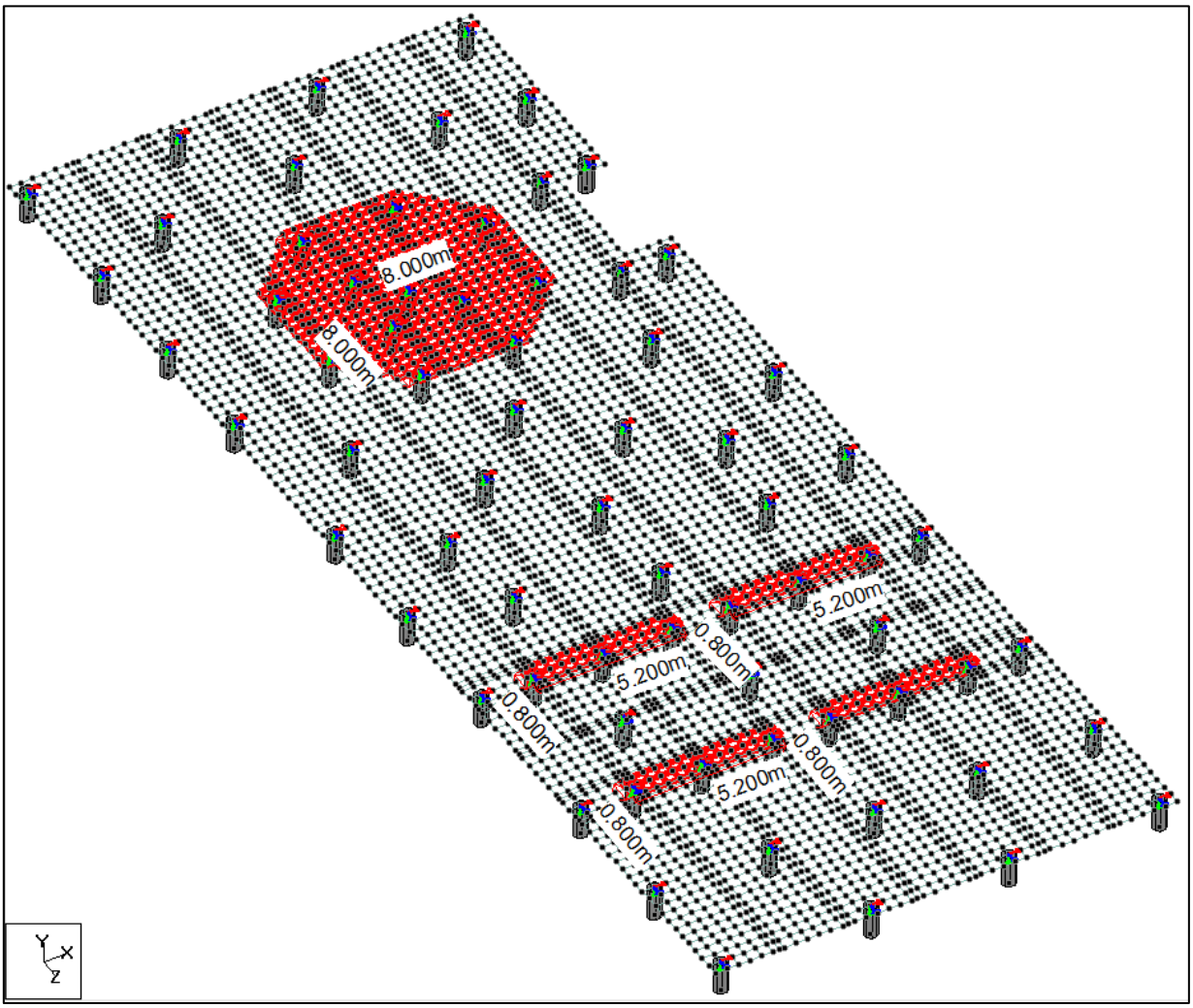
The Degasser and Blanketing oil Pit is modelled in staad with the help of Plate elements.



Degasser and Blanketing Oil Pit – 3D rendered view.



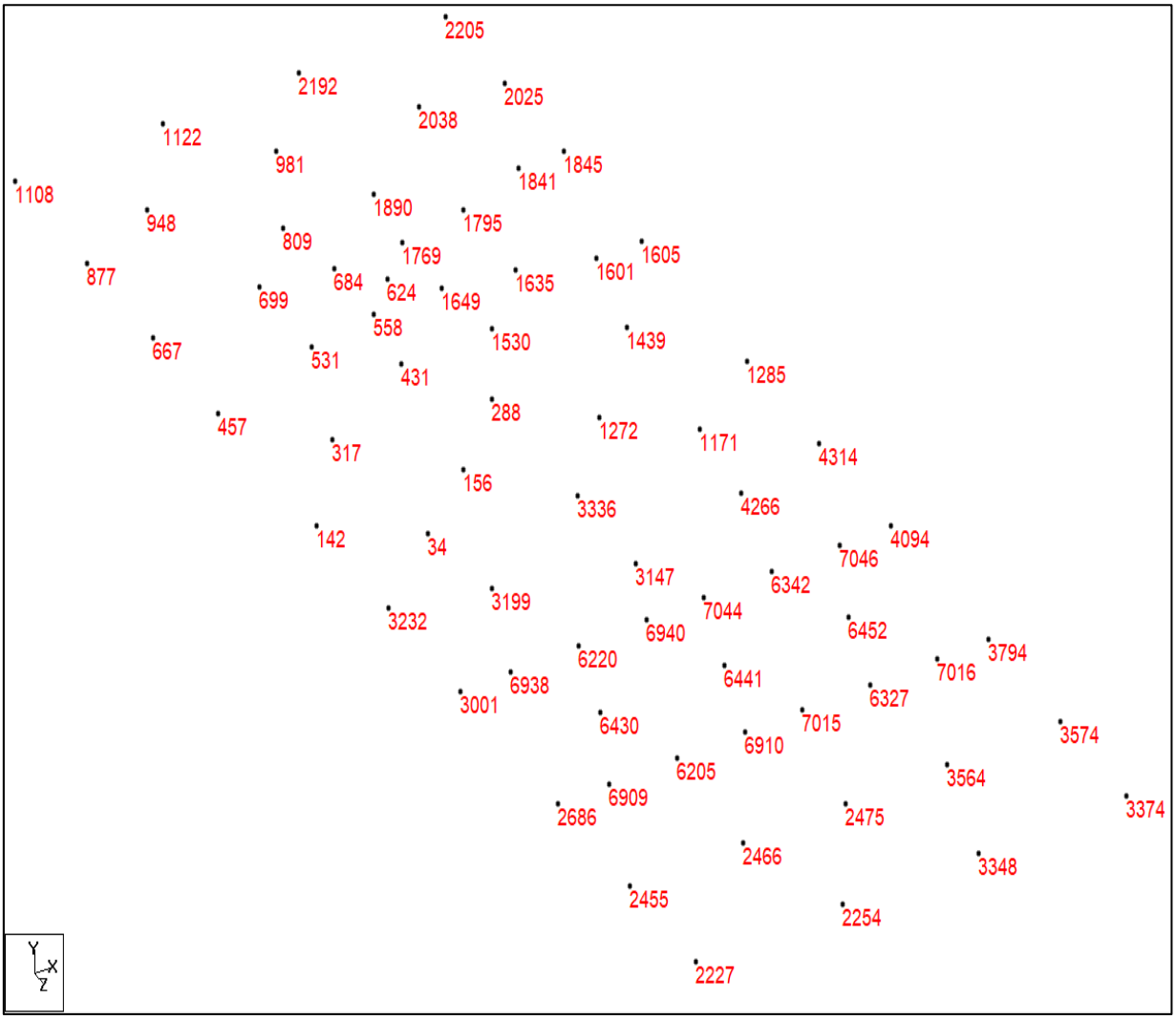
Finite Element Model - Centerline dimensions



Highlighted Plates in Red showing Blanketing Oil Tank Base and Degasser Tank base.

3.2 Staad Geometry with support conditions & releases

3.2.1 Support Node Numbers



Base Slab

Table 5.3: Vertical axial spring values - Fundex og

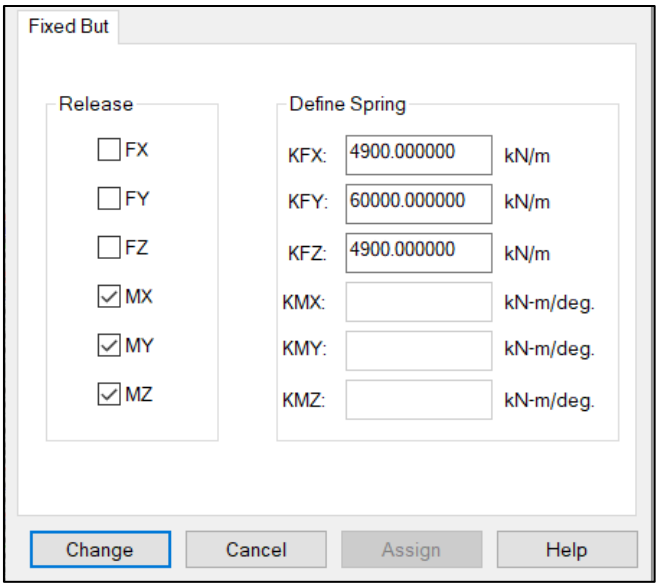
Probing	Spring value		ø380 mm [kN / mm]	ø450 mm [kN / mm]	ø540 mm [kN / mm]
CPT001 to CPT020	$k_{v;\,static;\,rep}$		45 to 55	55 to 65	70 to 80
	$k_{v;\,static;\,d}$		35 to 42	42 to 50	53 to 62
	$k_{v;\,dynamic;\,rep}$	lower limit	90 to 110	110 to 130	140 to 160
		upper limit	225 to 275	275 to 325	350 to 400
	$k_{v;\,dynamic;\,d}$	lower limit	70 to 84	84 to 100	107 to 123
		upper limit	175 to 210	210 to 250	269 to 307

Table 5.4: Horizontal spring values - Fundex og

Diameter	Situation Pile head	$F_{tr;\,d}$ [kN]	YOU $_d$ [mm]	static		dynamic	
				$k_{hor;\,static;\,d}$ kN / mm]	$k_{hor;\,static;\,rep}$ [kN / mm]	$k_{hor;\,dynamic;\,d}$ [kN / mm]	$k_{hor;\,dynamic;\,rep}$ [kN / mm]
Ø380	Hinge	10	3.44	2.9	3.8	5.8 to 14.5	7.6 to 19.0
	Wedged in		1.30	7.7	10.0	15.4 to 38.5	20.0 to 50.0
Ø450	Hinge	10	2.64	3.8	4.9	7.6 to 19.0	9.8 to 24.5
	Wedged in		1.01	9.9	12.9	19.8 to 49.5	25.8 to 64.5
Ø540	Hinge	10	2.06	4.8	6.2	9.6 to 24.0	12.4 to 31.0
	Wedged in		0.79	12.6	16.4	25.2 to 63.0	32.8 to 82.0

Extract from Soil Report

Piles Used Under	Diameter (mm)	End condition	Vertical Spring Constant (kN/m)	Horizontal Spring Constant (kN/m)	No of Piles	Support Numbers
1. Degasser Tank	450	Pinned at top	60000	4900	12	6205 6220 6327 6342 6909 6910 6938 6940 7015 7016 7044 7046
2. Blanketing Oil Tank	450	Pinned at top	60000	4900	13	431 531 558 624 684 699 809 1530 1635 1649 1769 1795 1890
3. Periphery	450	Pinned at top	60000	4900	26	142 457 667 877 1108 1122 1285 1601 1605 1841 1845 2025 2192 2205 2227 2254 2455 2686 3001 3232 3348 3374 3574 3794 4094 4314
4. Other	450	Pinned at top	60000	4900	20	34 156 288 317 948 981 1171 1272 1439 2038 2466 2475 3147 3199 3336 3564 4266 6430 6441 6452
Total Piles used					71	



3.2.2 Section Properties

A plate thickness of 600 mm is adopted uniform for Base Slab.
A Plate thickness of 250 mm is adopted uniform for all Walls.

4. LOADS

4.1 Load 1 (D1) Structure Selfweight (GSW)

This load consists of the selfweights of the all the modelled elements in Staad. The weight is automatically calculated by program.

4.2 Load 2 (D2) Structure Dead Loads (GDL)

This load consists of the dead weights of the all the elements not modelled in Staad such as Equipment pedestals, Gratings/Plating, Cable trays, soil overburden etc.

Degasser Pedestals
Height pedestal above TOC of Base Slab = 3.150 m
Density of Concrete = 25 kN/m^3
Uniform Pressure = 79 kN/m^2

Blanketing oil tank Pedestal
Height pedestal above TOC of Base Slab = 0.2 m
Density of Concrete = 25 kN/m^3
Uniform Pressure = 5 kN/m^2

4.3 Load 3 (DE-1) Piping Equipment Dead Load (GEM-1) for Degasser Equipment

Empty weight of each Degasser = 170 kN
Load shared by Each Saddle = 85 kN (Assume equal division)
Pedestal width = 0.8 m
Pedestal Length = 5.2 m (Staad Model)
Uniform Pressure = 20.45 kN/m^2

4.4 Load 4 (DE-2) Piping/Equipment Dead Load (GEM-2) for Blanketing Oil Tank

Empty weight of Blanketing Oil Tank = 200 kN
Area of Octagonal Pedestal = 54.4 m^2
Uniform Pressure = 3.7 kN/m^2

4.5 Load 5 (DO-1) Piping/Equipment Operating Load (GOP-1) for Degasser Equipment

Operating weight of each Degasser = 1880 kN
Load shared by Each Saddle = 940 kN (Assume equal division)
Pedestal width = 0.8 m
Pedestal Length = 5.2 m (Staad Model)
Uniform Pressure = 226 kN/m^2

4.6 Load 6 (DO-2) Piping/Equipment Operating Load (GOP-2) for Blanketing Oil Tank

Operating weight of Blanketing Oil Tank = 4250 kN
Area of Octagonal Pedestal = 54.4 m^2
Uniform Pressure = 78.125 kN/m^2

4.7 Load 7 (DT-1) Piping/Equipment Test Load (GTE-1) for Degasser Equipment

Same as Operating weight assumed.

4.8 Load 8 (DT-2) Piping/Equipment Test Load (GTE-2) for Blanketing Oil Tank

Same as Operating weight assumed.

4.9 Load 9 (EP2) Earth Pressure for Wet Soil

This load consists of the earth pressure exerted by Pit wall from outside due to soil around the Pit. The Soil is considered wet for this load case and corresponding density is considered for arriving at the earth pressure.

Density of Soil $\gamma_{s(dry)}$ = 20 kN/m^3
Depth of Pit Below Ground = 0.8 Approximately
Pressure at the base = 16 kN/m^2 (20 x 0.8)
Consider Angle of Friction (ϕ) = 30 degree
Coefficient of active earth pressure (αh) = 0.33 $[(1-\sin\phi)/(1+\sin\phi)]$
Maximum Pressure at Base = 5.4 kN/m^2 (0.33 x 16)

4.10 Load 10 (LL) Live Load

The Live load is considered as 2 kN/m^2 over Plan area of Pit.

4.11 Load 11 (AG) Pipe Anchor & Guide Load (QPA)

Not applicable.

4.12 Load 12 (SN) Snow Load (QSN)

Not applicable.

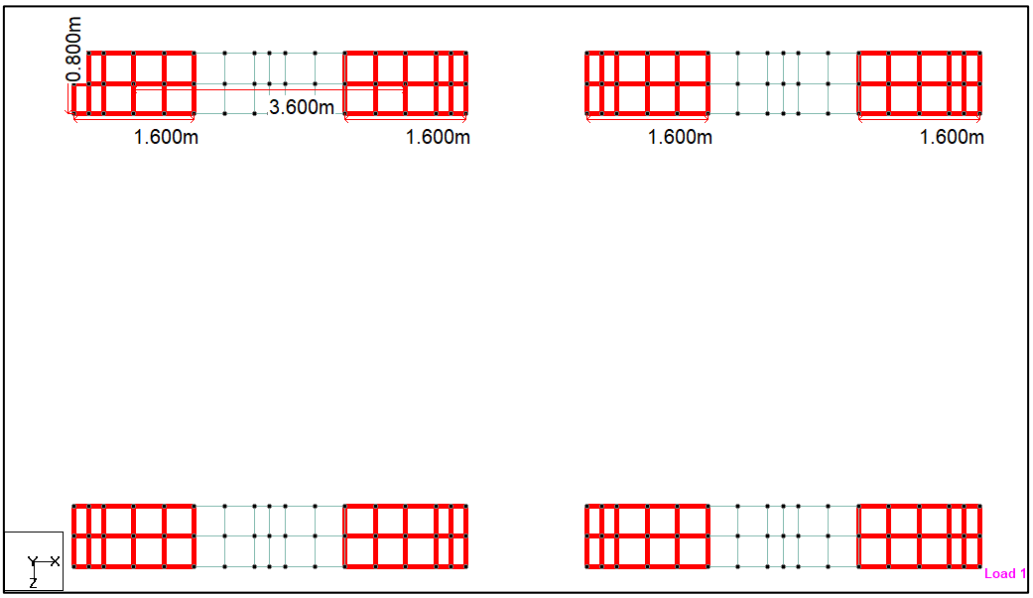
4.13 Load 13 (FR) Friction Load (QPF)

The friction load for Degasser Equipment is considered as 10% of Vertical Reaction of Saddle.

Operating Load each saddle	= 940 kN
Friction Load	= 94 kN (Acting equal and opposite)
Length of Pedestal	= 5.2 m (Staad Model)
Width of Pedestal	= 0.8 m
Shear Load on Plates	= 22.6 kN/m^2
Moment at the base of Pedestal	= 296.1 kNm
Consider Lever arm	= 0.4 m
Up and Down Load	= 740.25 kN
Up and Down Uniform Pressure	= 356 kN/m^2 (Applied on Half the width along the length)

4.14 Load 14 (WL-X) Full wind in +X Direction (QWL-X)

The Design wind Pressure	= 0.70 kN/m^2 (At 10 m above Ground, Unbuilt)
Wind load on each Degasser Tank	
Length of Tank	= 11.6 m
Diameter of Tank	= 4 m
CF for Cylinder	= 0.7
Total Wind Load	= CF x Design Pressure X Exposed Area
Total Wind	= 22.75 kN (0.7 x 0.7 x 11.6 x 4)
Wind Load carried by each Saddle	= 11.5 kN (Acting at the Center line level of tanks)
Uniform Shear for Pedestal	= 2.76 kN/m2 (11.5/0.8/5.2)
Height of Tank Center line above base	= 5.95 m (2.8 + 3.150)
Moment of Wind Load at the base	= 68.5 kNm per Pedestal

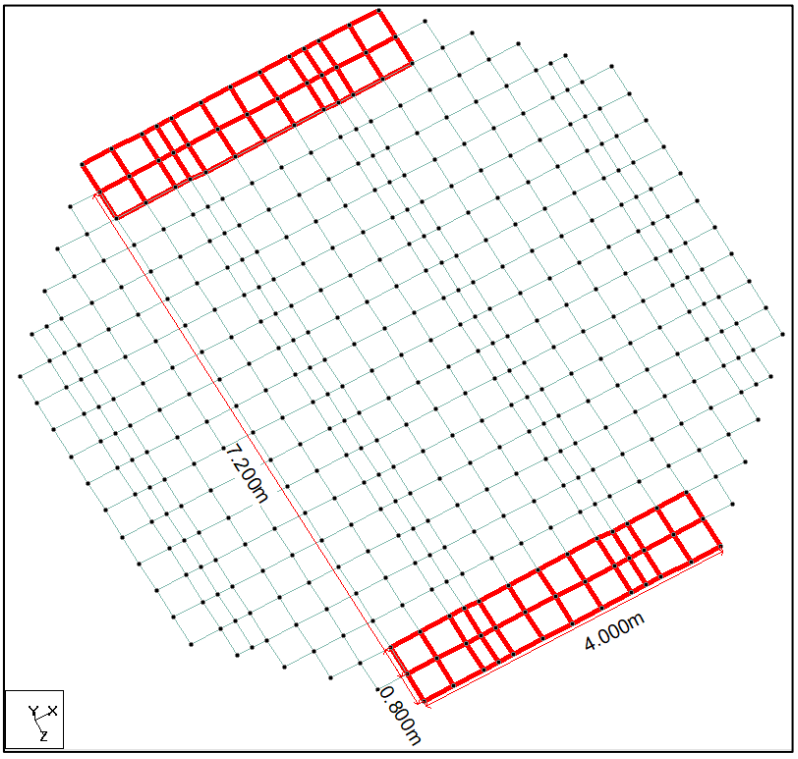


Degasser Pedestal Base

Assume Lever arm = 3.6 m
Up and Down Load = 19.05 kN
Up and Down Pressure = 14.9 kN/m^2

Wind load on each Degasser Tank Pedestal
Height of Pedestal = 3.15 m
Width of Pedestal = 0.8 m
CF for Flat surface = 2.0
Total Wind Load = CF x Design Pressure X Exposed Area
Total Wind Load = 3.53 kN (2 x 0.7 x 3.15 x 0.8) Each Pedestal
Shear on Plates = 0.85 kN/m^2
Moment at the base = 5.56 kNm (3.53 x 3.15/2)
Consider lever arm = 3.6 m
Up and Down Load = 1.55 kN
Up and Down Pressure = 1.21 kN/m^2

Wind load on Blanketing Oil Tank



Blanketing oil Pedestal Base

Height of tank	= 8.5 kN
Diameter of Tank	= 8.0 m
CF for Cylinder	= 0.7
Total Wind Load	= 33.50 kN (Acting at Mid Height of the tank)
Moment about the base	= 149.1 kNm (33.50 x (0.2 + 8.5/2))
Consider Lever arm	= 7.2 m
Up and Down Load	= 20.71 kN
Up and Down Pressure	= 6.5 kN/m^2 (20.71/4/0.8)

4.15 Load 15 (WL-Z) Full wind in +Z Direction (QWL-Z)

The Design wind Pressure = 0.70 kN/m^2 (At 10 m above Ground, Unbuilt)

Wind load on each degasser Tank
Diameter of Tank = 4 m
CF for Flat area = 2
Total Wind Load = CF x Design Pressure X Exposed Area
Total Wind Load = 17.6 kN (2 x 0.7 x pi()/4 x 4 x 4)
Wind Load carried by each Saddle = 8.8 kN (Acting at the Center line level of tanks)
Height of Tank Center line above base = 5.95 m (2.8 + 3.150)
Moment of Wind Load at the base = 105 kNm per Tank (17.6 x 5.95)
Center to center Saddle dimension = 6.0 m
Up and Down Load = 17.5 kN each pedestal
Up and Down Pressure = 4.21 kN/m^2 (17.5 / 5.2 / 0.8)

Wind load on each Degasser Tank Pedestal
Height of Pedestal = 3.15 m
Width of Pedestal = 5 m (5.2 in staad model)
CF for Flat surface = 2.0
Total Wind Load = CF x Design Pressure X Exposed Area
Total Wind Load = 22.05 kN (2 x 0.7 x 3.15 x 5) Each Pedestal
Shear on Plates = 5.3 kN/m^2 (22.05 / 5.2 / 0.8)
Moment at the base = 35 kNm (22.05 x 3.15/2)
Consider lever arm = 0.4 m
Up and Down Load = 86.85 kN
Up and Down Pressure = 41.75 kN/m^2 (86.85 / 5.2 / 0.4)

Wind load on Blanketing Oil Tank
Exactly same as Wind along X except direction.

4.16 Load 16 (WP-X) Partial wind in +X Direction (QWLP-X)

This load is equal to 50% of Load case 14.

4.17 Load 17 (FL-1) Fluid in Degasser Pit during Calamity (QFL-1)

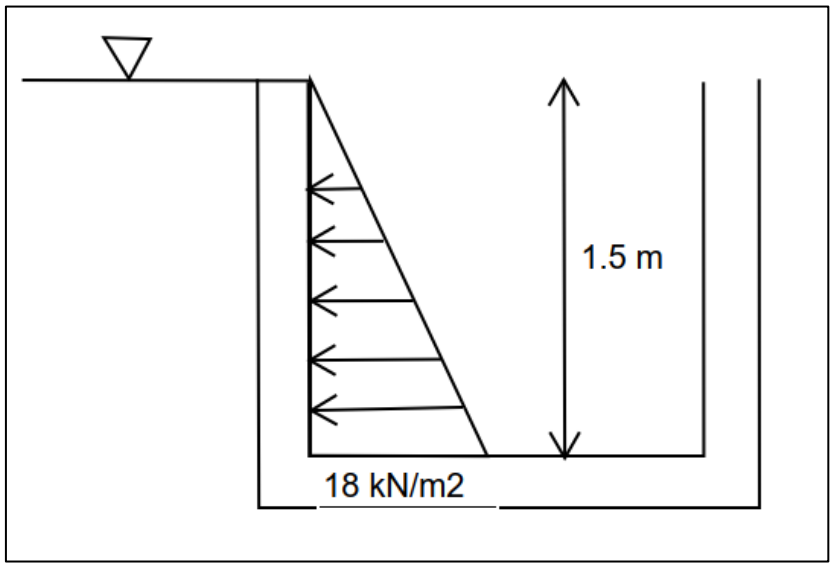
This load acts on Degasser Pit Base slab during calamity.

Density of Brine water = 12 kN/m^2

Depth of Brine water = 1.5 m

Vertical Pressure = 18 kN/m^2

Lateral Varying Pressure = 0 to 18 kN/m^2 on walls.



4.18 Load 18 (FL-2) Fluid in Blanketing oil Pit during Calamity (QFL-2)

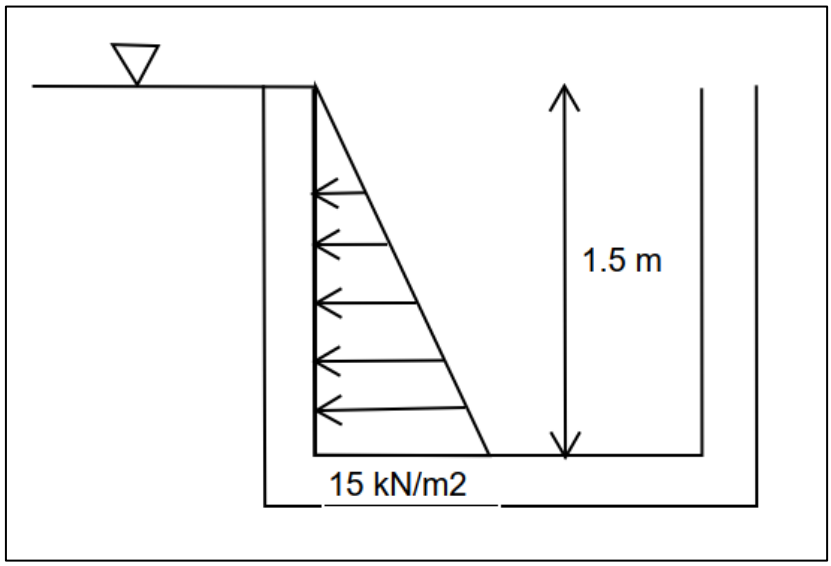
This load acts on Degasser Pit Base slab during calamity.

Density of Brine water = 10 kN/m^2

Depth of Brine water = 1.5 m

Vertical Pressure = 15 kN/m^2

Lateral Varying Pressure = 0 to 15 kN/m^2 on walls.



4.19 Load 19 (EQ-X) Earthquake in +X Direction (AEQ-X)

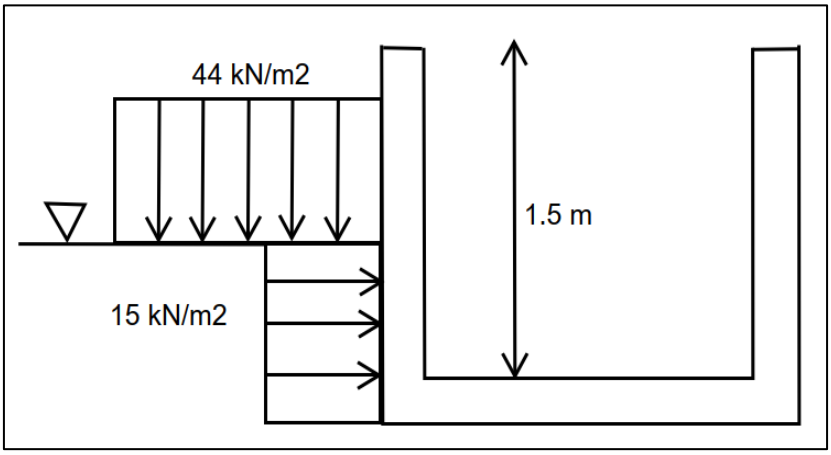
Not applicable.

4.20 Load 20 (EQ-Z) Earthquake in +Z Direction (AEQ-Z)

Not applicable.

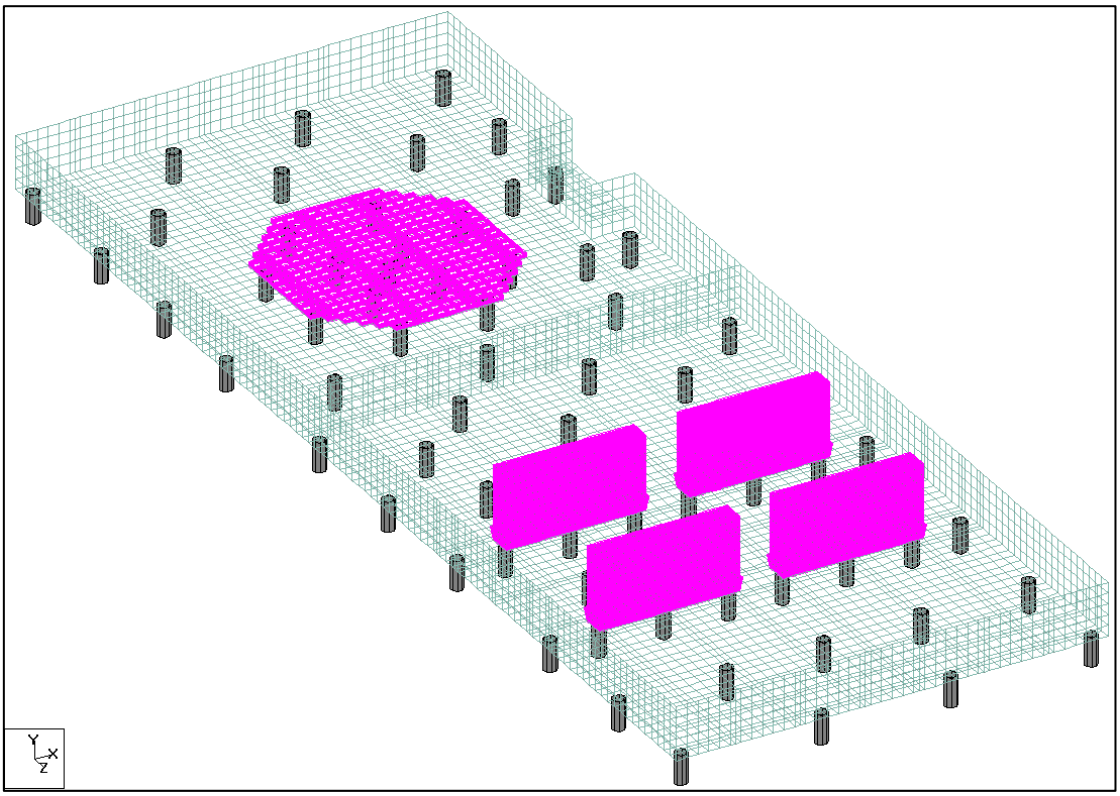
4.21 Load 21 (TL) Traffic Load (QTL)

Total vehicular load = 450 kN
Total out to out dimension (Length) = 5.6 m (1.2 + 4 + 2 x 0.4/2) Along length of vehicle
Total out to out dimension (Width) = 2.4 m (2+ 0.4/2 x 2) Along width of vehicle
Total Vertical Pressure (Surcharge) = 43.52 kN/m^2 (450 x 1.3 / 5.6 / 2.4)
Coefficient of Earth pressure = 0.33
Lateral Pressure on Walls = 15 kN/m^2

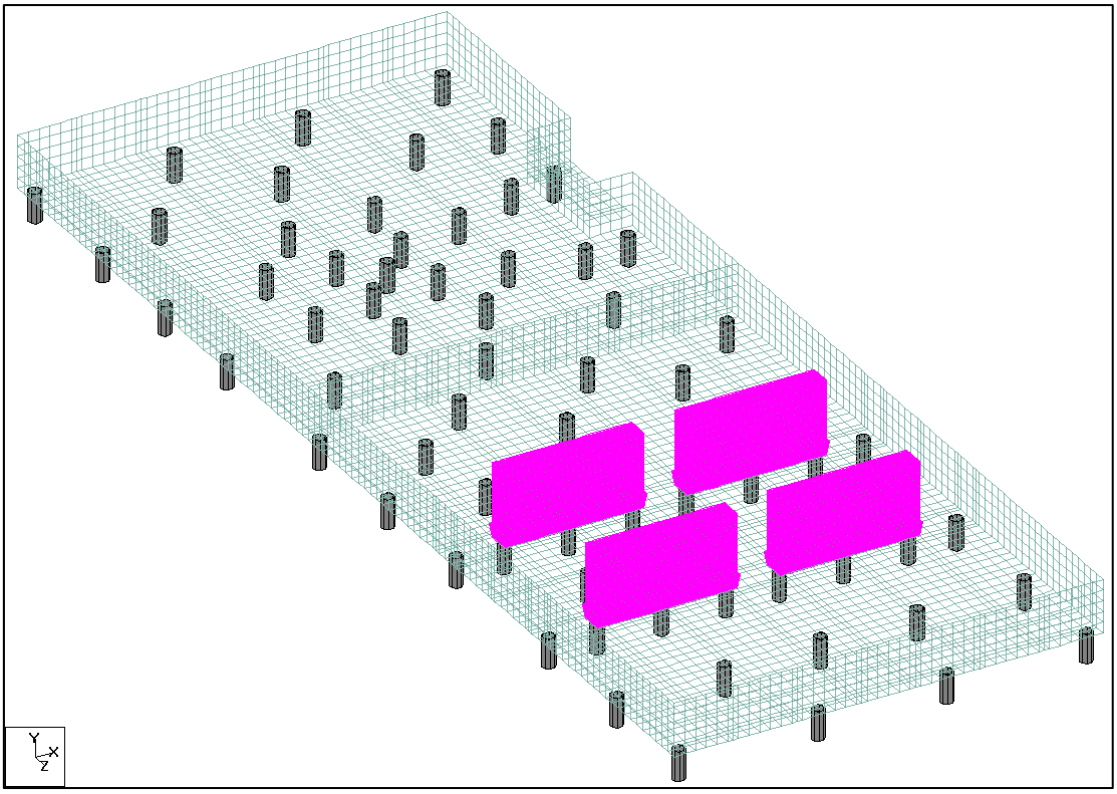


5. LOADING SNAPS

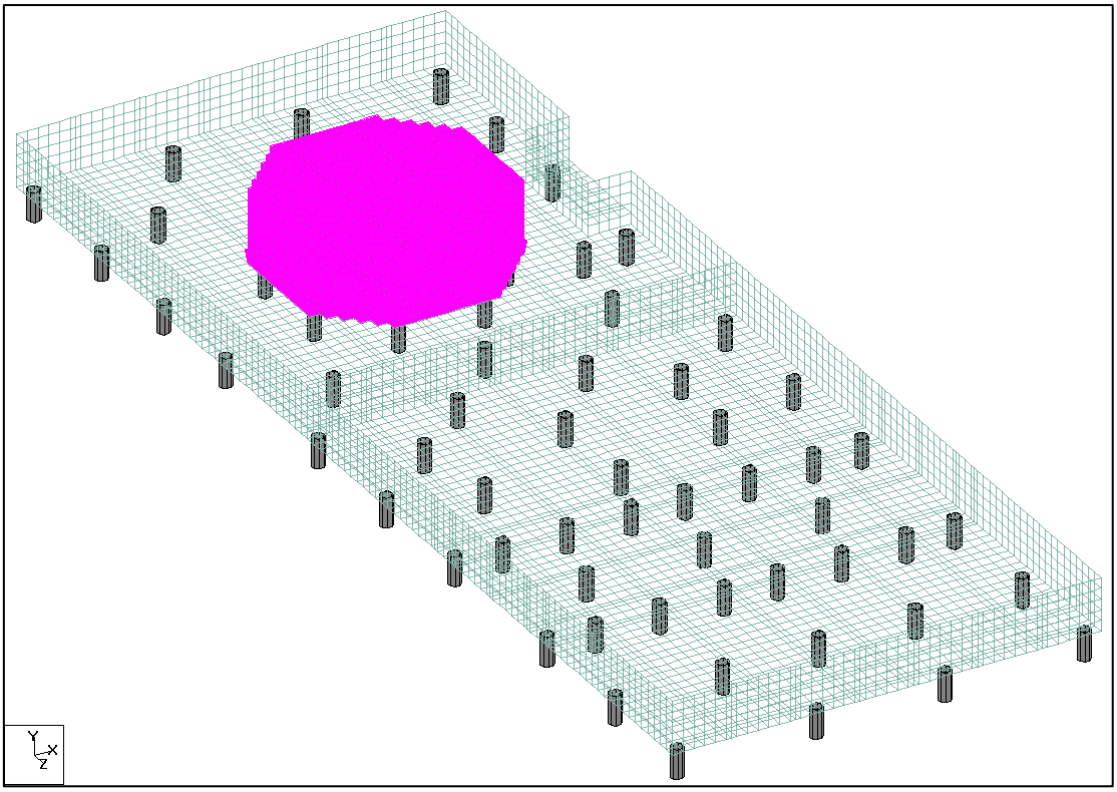
5.1 Load 2 (D2) Structure Dead Loads (GDL)



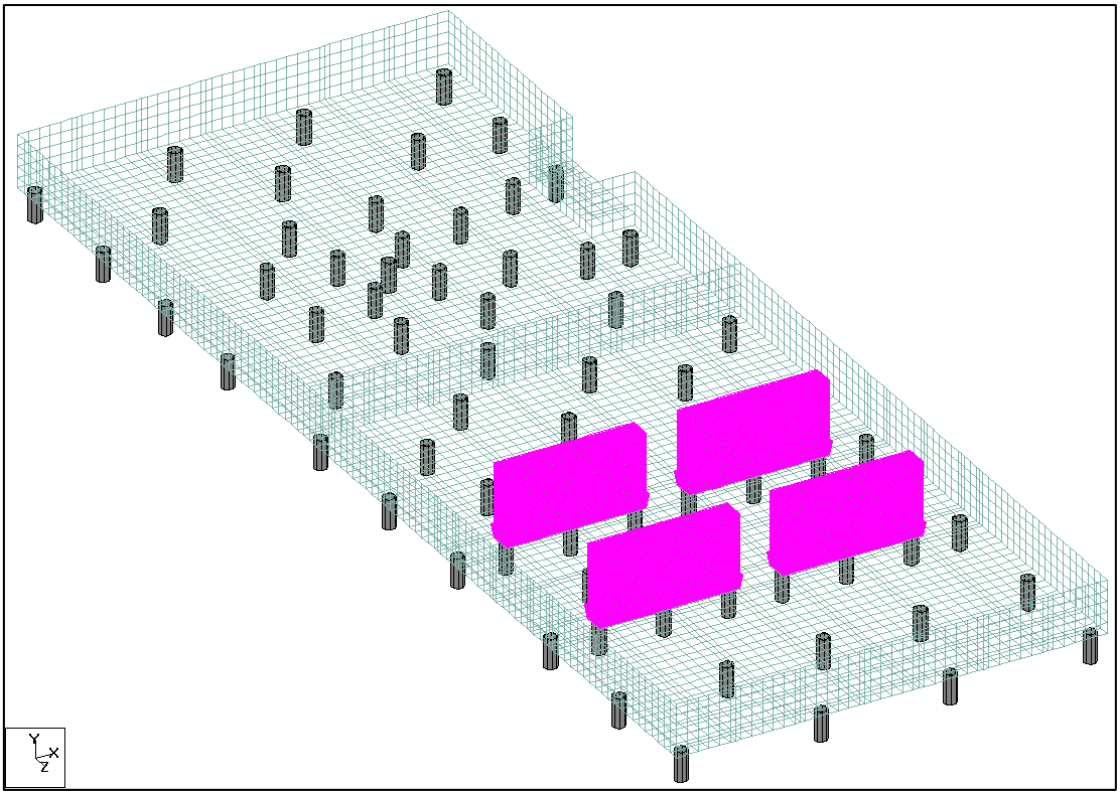
5.2 Load 3 (DE-1) Piping Equipment Dead Load (GEM-1) for Degasser Equipment



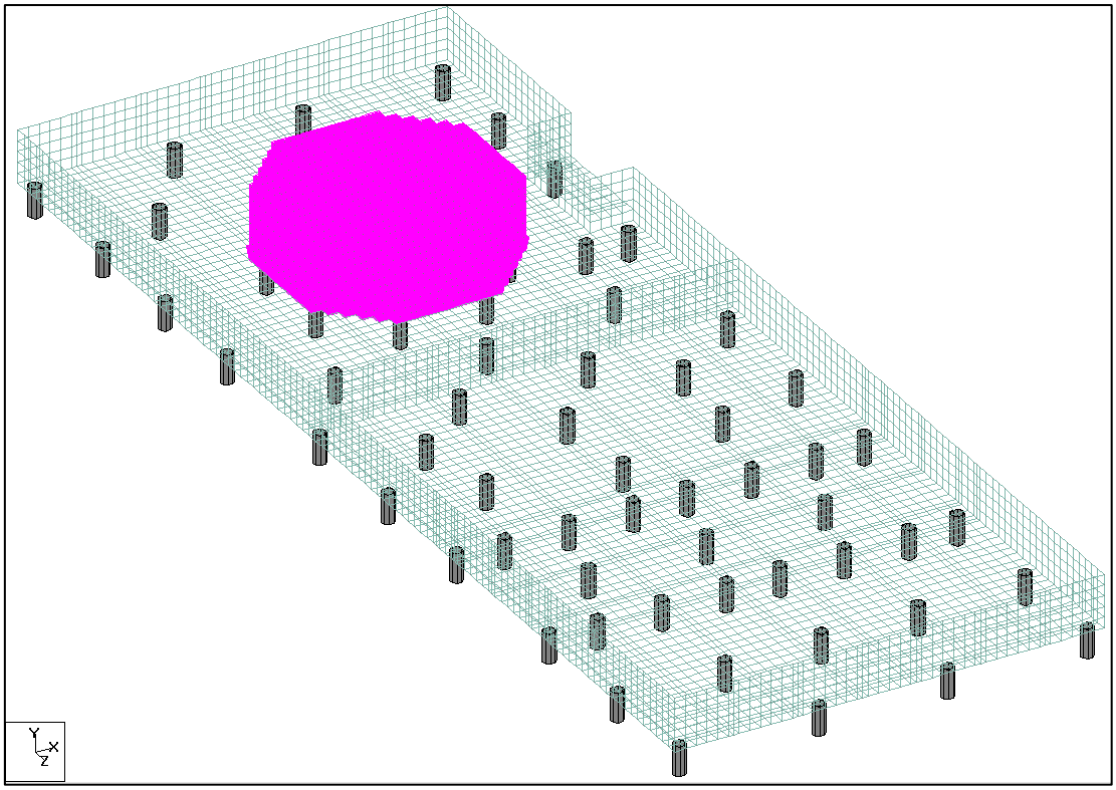
5.3 Load 4 (DE-2) Piping/Equipment Dead Load (GEM-2) for Blanketing Oil Tank



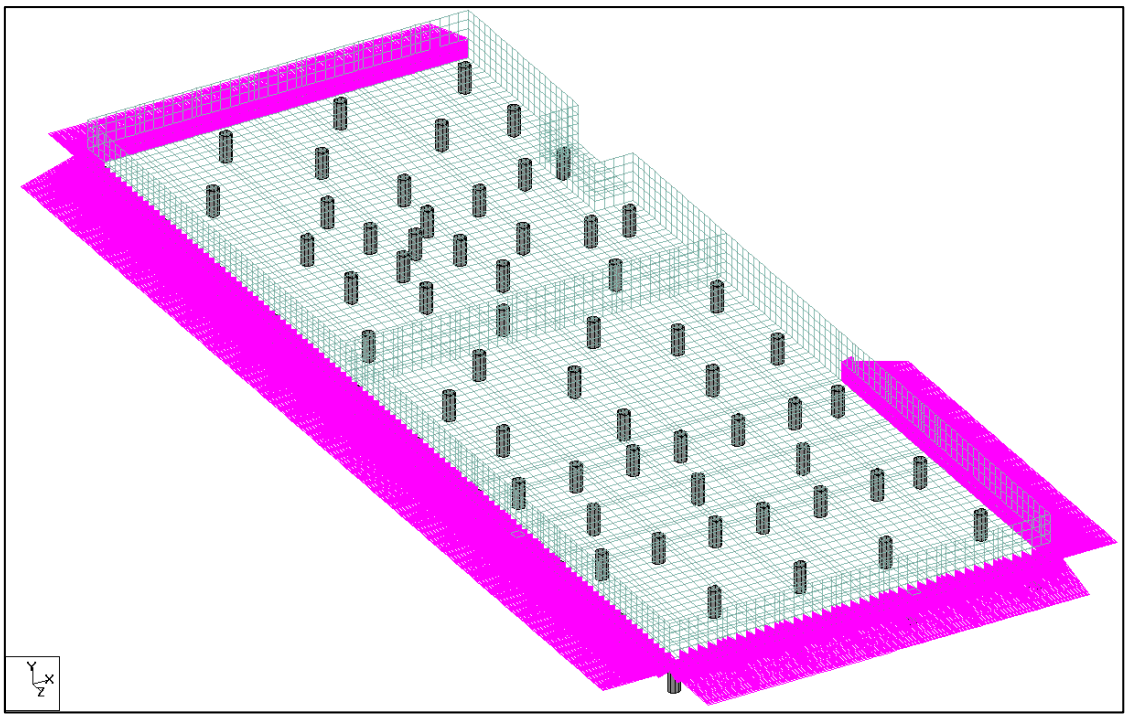
5.4 Load 5 (DO-1) Piping/Equipment Operating Load (GOP-1) for Degasser Equipment



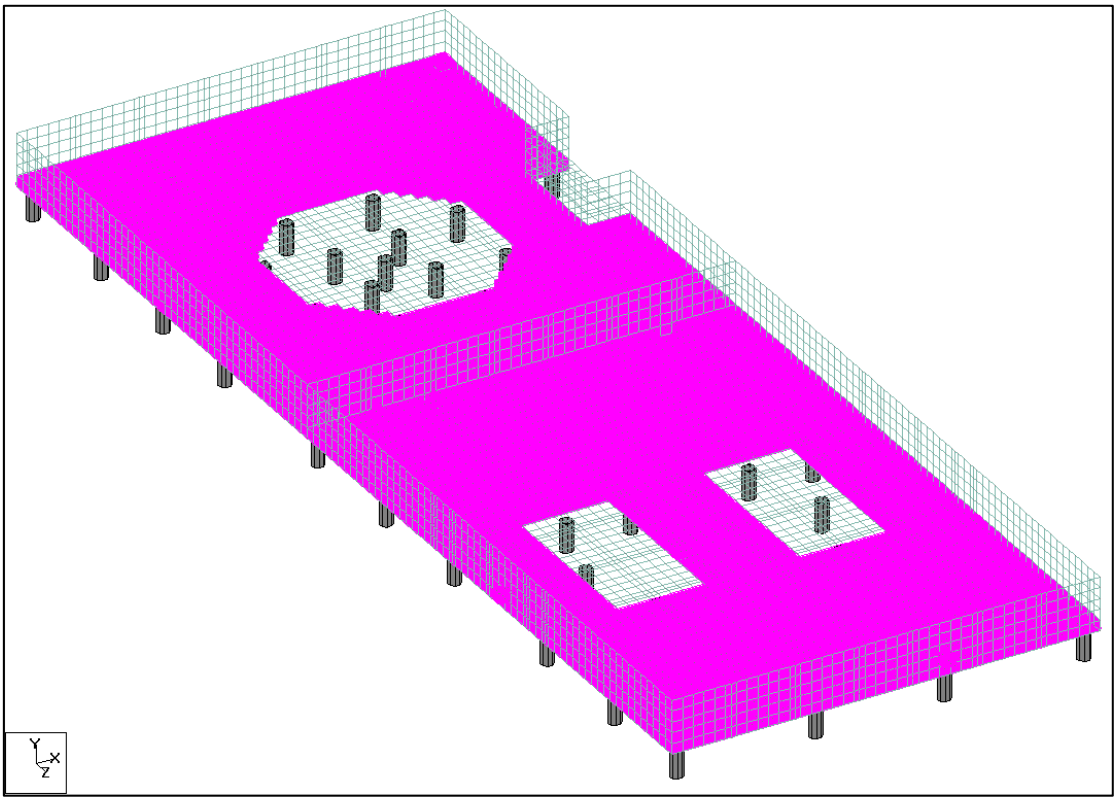
5.5 Load 5 (DO-2) Piping/Equipment Operating Load (GOP-2) for Blanketing Oil Tank



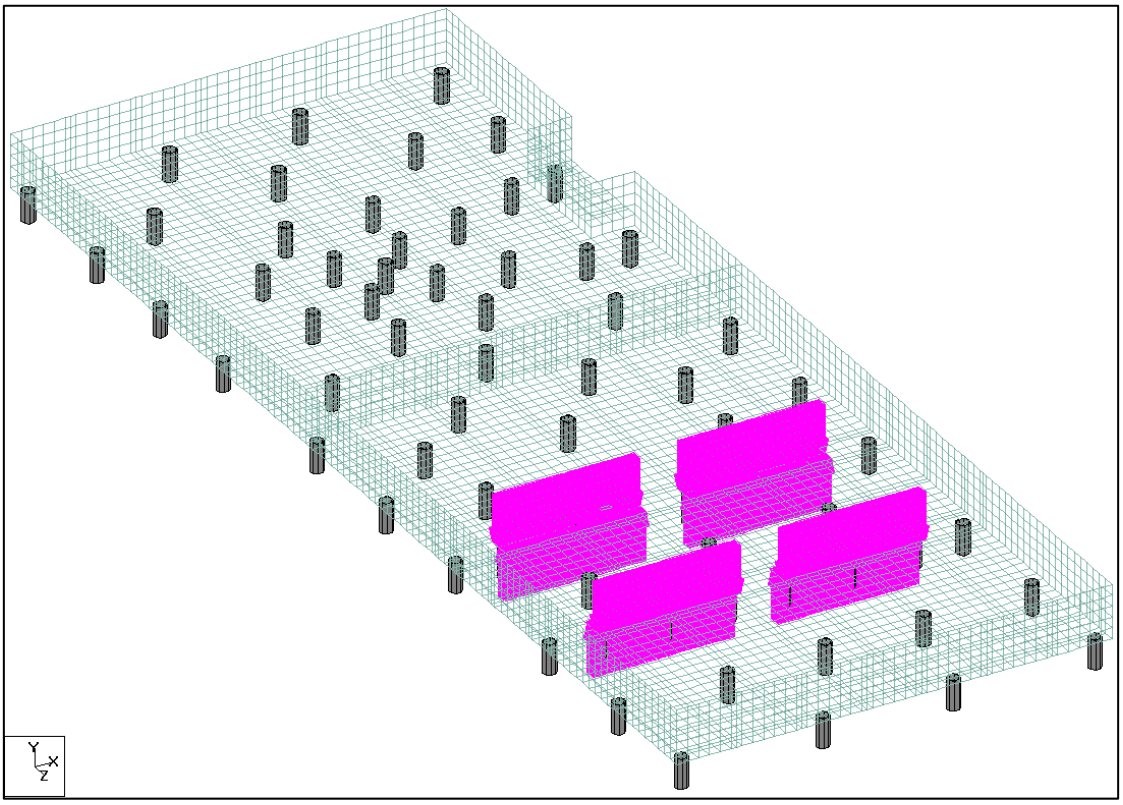
5.6 Load 9 (EP2) Earth Pressure for Wet Soil



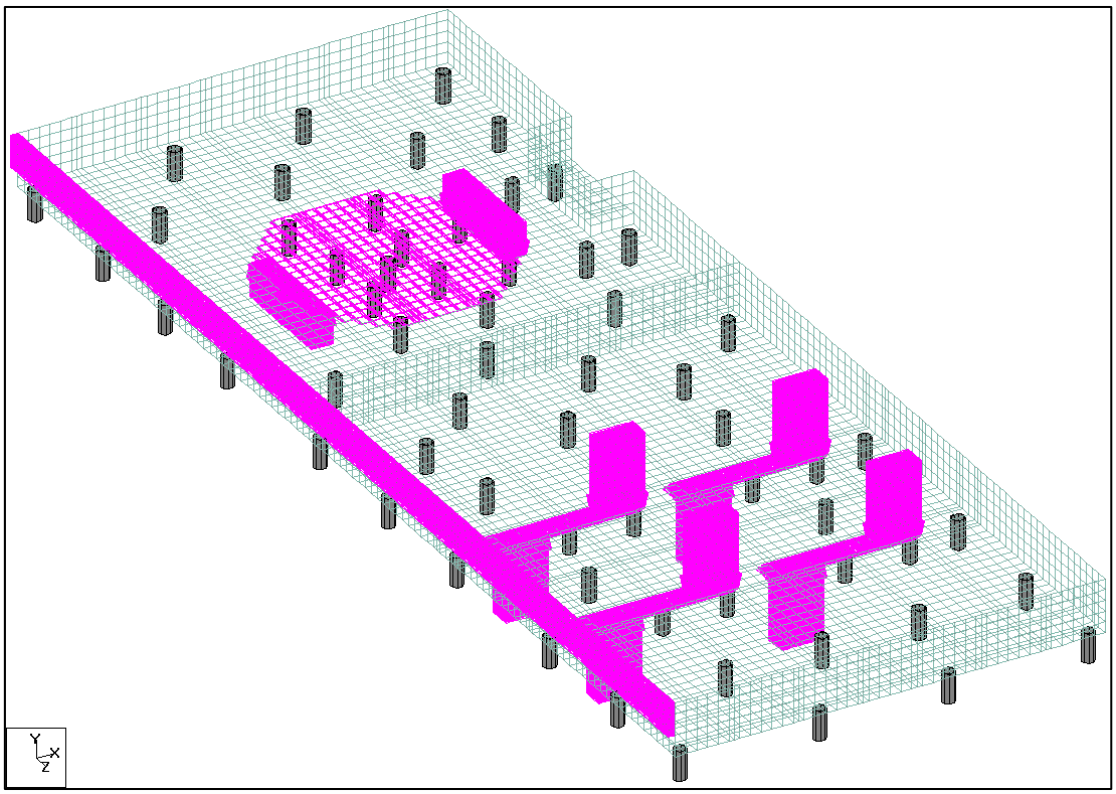
5.7 Load 10 (LL) Live Load



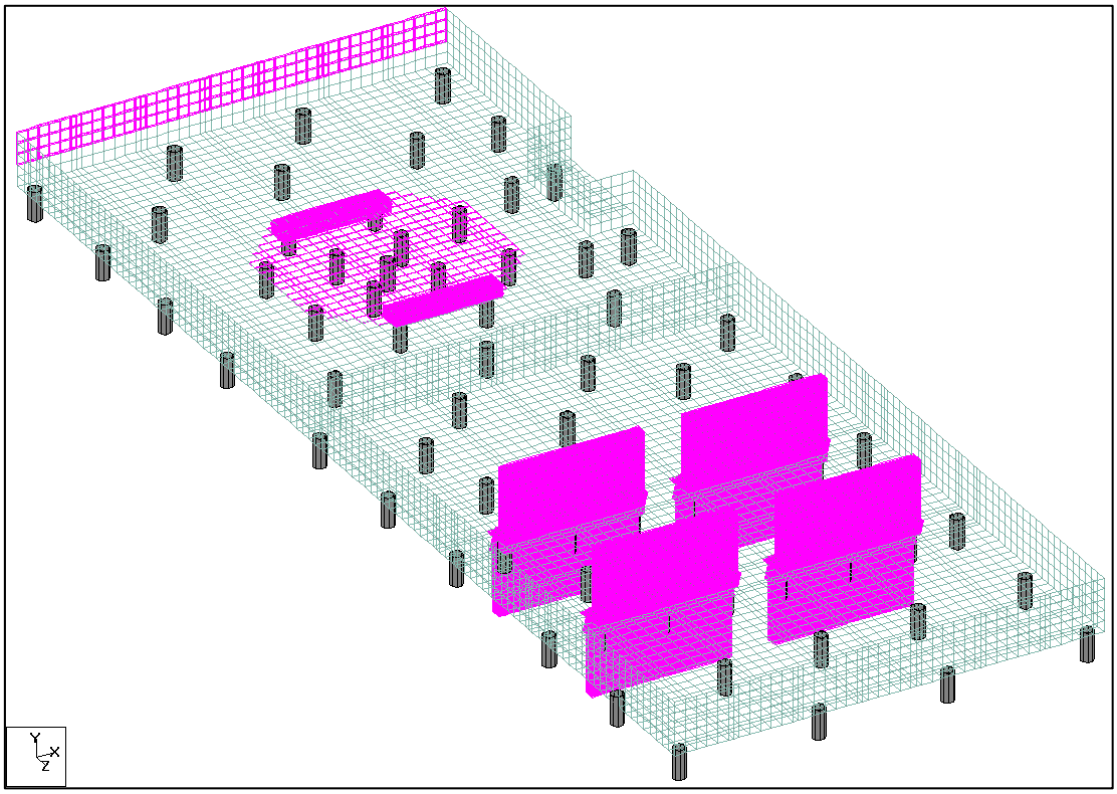
5.8 Load 13 (FR) Friction Load (QPF)



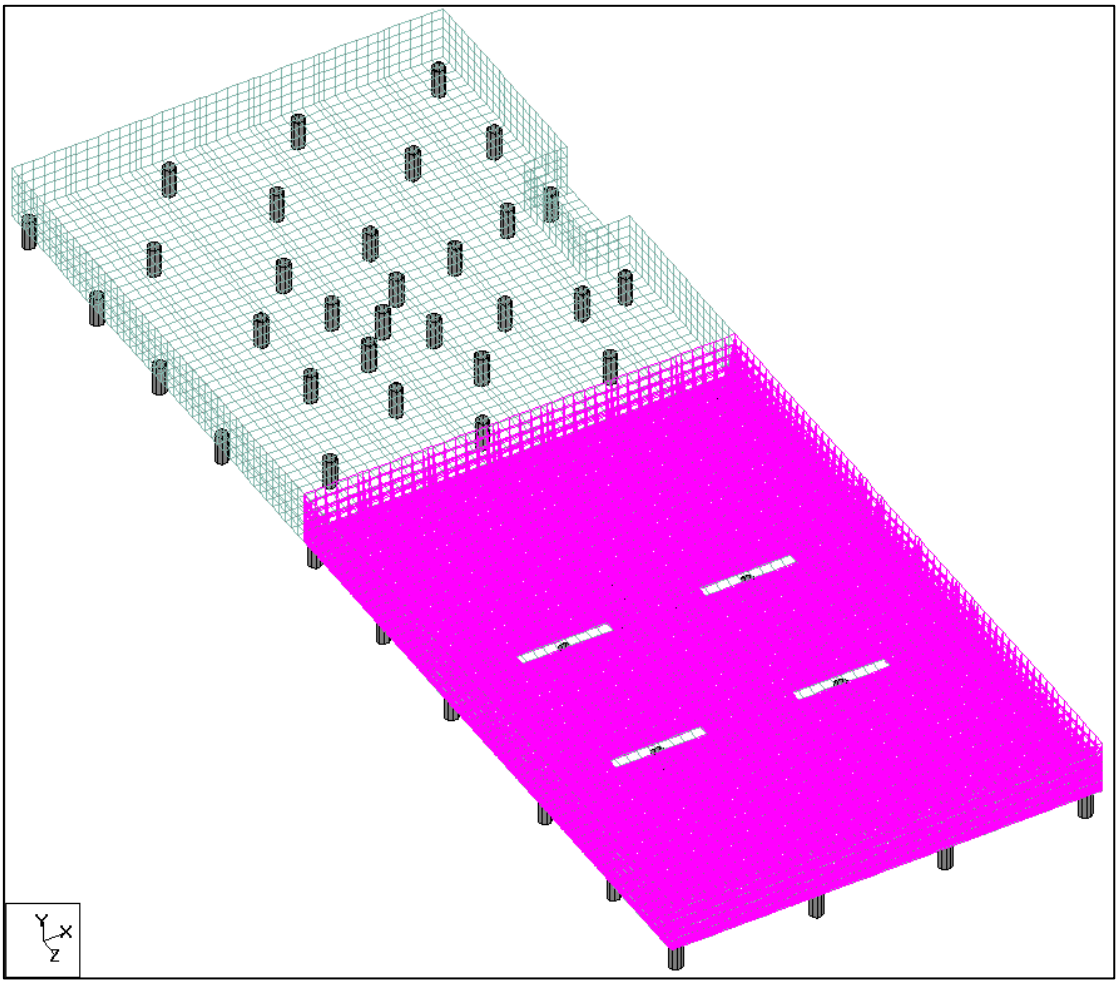
5.9 Load 14 (WL-X) Full wind in +X Direction (QWL-X)



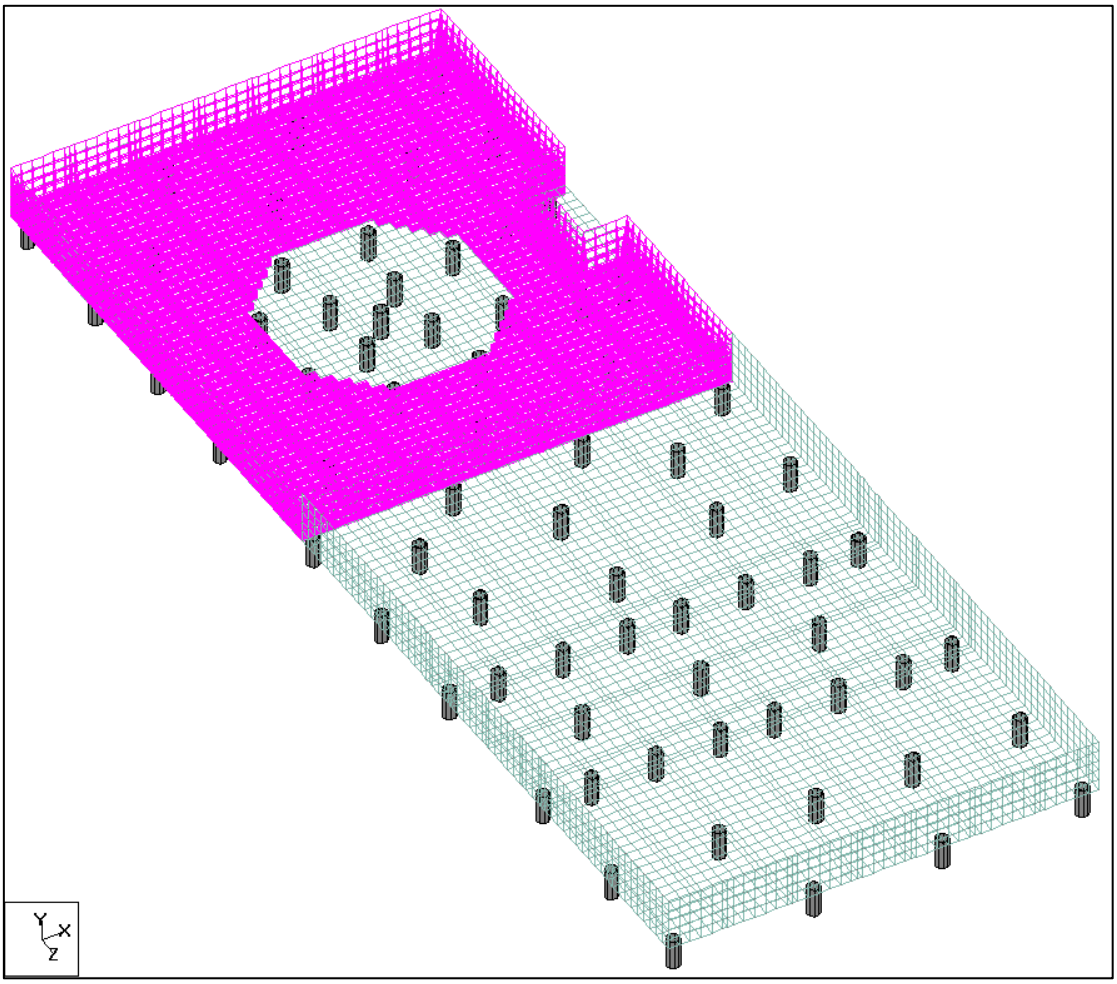
5.10 Load 15 (WL-Z) Full wind in +Z Direction (QWL-Z)



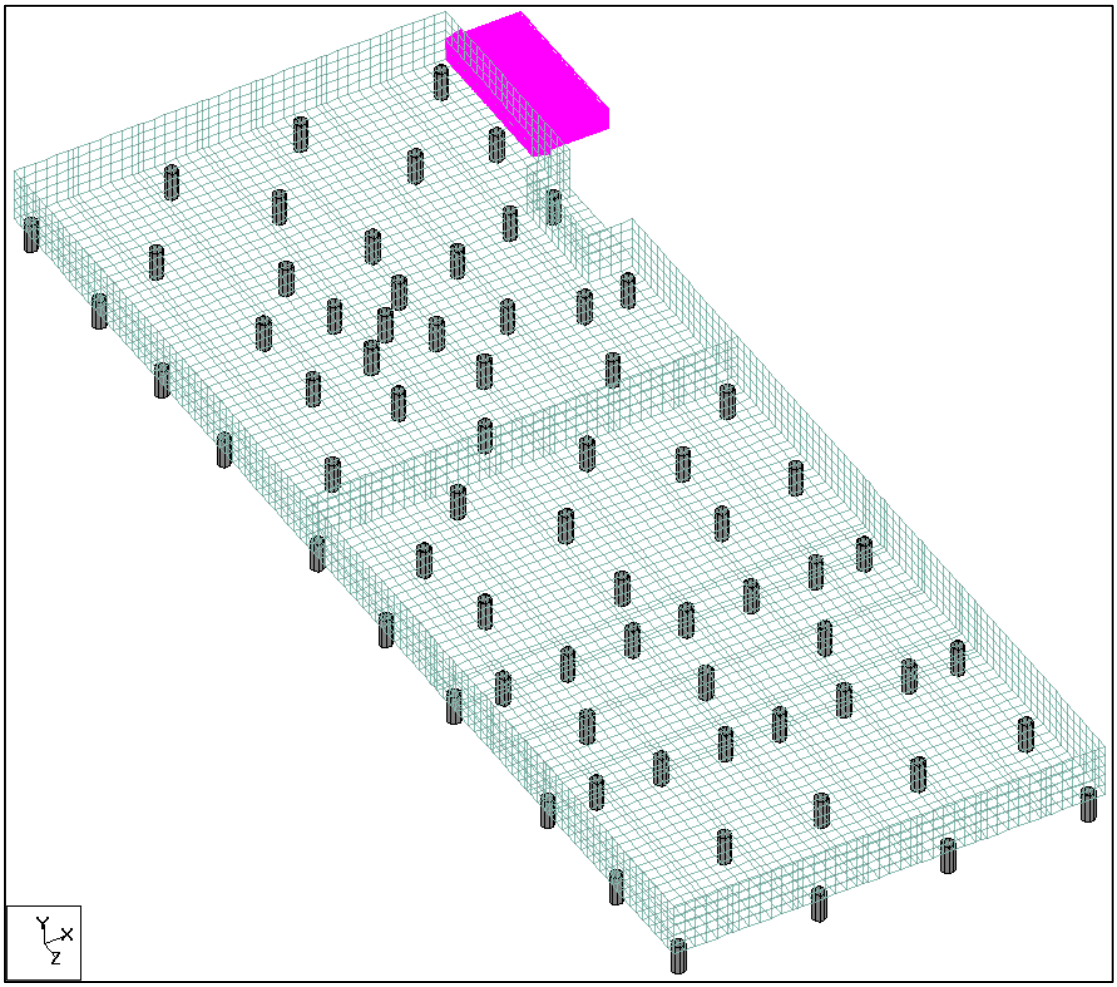
5.11 Load 17 (FL-1) Fluid in Degasser Pit during Calamity (QFL-1)



5.12 Load 18 (FL-2) Fluid in Blanketing oil Pit during Calamity (QFL-2)



5.13 Load 21 (TL) Traffic Load (QTL)



6. LOAD COMBINATIONS

6.1 Load combinations for Ultimate limit State (ULS)

	Static Equilibrium of Building Structures (A1.3.1(3)) EQU SET A																				
Primary Loads	D1	D2	DE-1	DE-2	DO-1	DO-2	DT-1	DT-2	EP2	LL	AG	SN	FR	WL-X	WL-Z	WP-X	FL-1	FL-2	EQ-X	EQ-Z	TL
Load Case No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Load Combinations																					
101	1.21	1.21			1.21	1.21			1.21		1.65		0.825								1.65
102	1.21	1.21			1.21	1.21			1.21		1.65		1.65								1.155
103	1.21	1.21			1.21	1.21			1.21		1.65		0.825								1.155
104	1.21	1.21			1.21	1.21			1.21	0.825	1.65		0.825								
105	1.21	1.21			1.21	1.21			1.21	0.825	1.65		1.65								
106	1.21	1.21			1.21	1.21			1.21	1.65	1.65		0.825								
107	1.21	1.21			1.21	1.21			1.21	0.825	1.65	1.65	0.825								
108	1.21	1.21			1.21	1.21			1.21	0.825	1.65		0.825	1.65							
109	1.21	1.21			1.21	1.21			1.21	0.825	1.65		0.825		1.65						
110	0.9	0.9			0.9	0.9			1.21	0.825	1.65		0.825	1.65							
111	0.9	0.9			0.9	0.9			1.21	0.825	1.65		0.825		1.65						
112	1.21	1.21	1.21	1.21					1.21					1.65							
113	1.21	1.21	1.21	1.21					1.21						1.65						
114	0.9	0.9	0.9	0.9					1.21					1.65							
115	0.9	0.9	0.9	0.9					1.21						1.65						
116	1.21	1.21	1.21	1.21					1.21												1.65
117	0.9	0.9	0.9	0.9					1.21												1.65
118	1.21	1.21	1.21			1.21			1.21								1.65				
119	1.21	1.21		1.21	1.21				1.21				0.825					1.65			
120	1.21	1.21		1.21	1.21				1.21				1.65					1.65			
121	1.21	1.21	1.21	1.21					1.21								1.65	1.65			
122	1.21	1.21			1.21	1.21			1.21								1.65	1.65			
123	1.21	1.21		1.21			1.21		1.21												
124	1.21	1.21		1.21			1.21		1.21							1.65					
125	1.21	1.21	1.21					1.21	1.21												
126	1.21	1.21	1.21					1.21	1.21							1.65					
127	1.21	1.21	1.21	1.21													1.65				
128	1.21	1.21	1.21	1.21														1.65			

Project Details			
Customer	NOURYON INDUSTRIAL CHEMICALS B.V.	**Project No.**	NR1038
Project Title	Brine Field Project - Haaksbergen	**Calc No.**	1.333.464
Calculation Title	Degasser and Blanketing Oil Pit	**Phase/CTR**	Execute
Elec File Location	NR1038/C.05/0025		

	Design of Structural Members not involving Geotechnical Actions (A1.3.1(4)) STR,GEO SET B1																			
Primary Loads	D1	D2	DE-1	DE-2	DO-1	DO-2	DT-1	DT-2	EP2	LL	AG	SN	FR	WL-X	WL-Z	WP-X	FL-1	FL-2	EQ-X	EQ-Z	TL
Load Case No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Load Combinations																					
201	1.485	1.485			1.485	1.485			1.485		1.65		0.825								1.155
202	1.485	1.485			1.485	1.485			1.485		1.65		0.825								1.155
203	1.485	1.485			1.485	1.485			1.485		1.65		0.825								1.155
204	1.485	1.485			1.485	1.485			1.485	0.825	1.65		0.825								
205	1.485	1.485			1.485	1.485			1.485	0.825	1.65		0.825								
206	1.485	1.485			1.485	1.485			1.485	0.825	1.65		0.825								
207	1.485	1.485			1.485	1.485			1.485	0.825	1.65		0.825								
208	1.485	1.485			1.485	1.485			1.485	0.825	1.65		0.825								
209	1.485	1.485			1.485	1.485			1.485	0.825	1.65		0.825								
210	0.9	0.9			0.9	0.9			1.485	0.825	1.65		0.825								
211	0.9	0.9			0.9	0.9			1.485	0.825	1.65		0.825								
212	1.485	1.485	1.485	1.485					1.485												
213	1.485	1.485	1.485	1.485					1.485												
214	0.9	0.9	0.9	0.9					1.485												
215	0.9	0.9	0.9	0.9					1.485												
216	1.485	1.485	1.485	1.485					1.485												1.155
217	0.9	0.9	0.9	0.9					1.485												1.155
218	1.485	1.485	1.485			1.485			1.485								1.65				
219	1.485	1.485		1.485	1.485				1.485				0.825					1.65			
220	1.485	1.485		1.485	1.485				1.485				0.825					1.65			
221	1.485	1.485	1.485	1.485					1.485								1.65	1.65			
222	1.485	1.485			1.485	1.485			1.485								1.65	1.65			
223	1.485	1.485		1.485			1.485		1.485												
224	1.485	1.485		1.485			1.485		1.485												
225	1.485	1.485	1.485					1.485	1.485												
226	1.485	1.485	1.485					1.485	1.485												
227	1.485	1.485	1.485	1.485													1.65				
228	1.485	1.485	1.485	1.485														1.65			

Project Details			
Customer	NOURYON INDUSTRIAL CHEMICALS B.V.	**Project No.**	NR1038
Project Title	Brine Field Project - Haaksbergen	**Calc No.**	1.333.464
Calculation Title	Degasser and Blanketing Oil Pit	**Phase/CTR**	Execute
Elec File Location	NR1038/C.05/0025		

	Design of Structural Members not involving Geotechnical Actions (A1.3.1(4)) STR,GEO SET B2																			
Primary Loads	D1	D2	DE-1	DE-2	DO-1	DO-2	DT-1	DT-2	EP2	LL	AG	SN	FR	WL-X	WL-Z	WP-X	FL-1	FL-2	EQ-X	EQ-Z	TL
Load Case No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Load Combinations																					
301	1.175	1.175			1.175	1.175			1.175		1.65		0.825								1.65
302	1.175	1.175			1.175	1.175			1.175		1.65		1.65								1.155
303	1.175	1.175			1.175	1.175			1.175		1.65		0.825								1.155
304	1.175	1.175			1.175	1.175			1.175	0.825	1.65		0.825								
305	1.175	1.175			1.175	1.175			1.175	0.825	1.65		1.65								
306	1.175	1.175			1.175	1.175			1.175	1.65	1.65		0.825								
307	1.175	1.175			1.175	1.175			1.175	0.825	1.65	1.65	0.825								
308	1.175	1.175			1.175	1.175			1.175	0.825	1.65		0.825	1.65							
309	1.175	1.175			1.175	1.175			1.175	0.825	1.65		0.825		1.65						
310	0.9	0.9			0.9	0.9			1.175	0.825	1.65		0.825	1.65							
311	0.9	0.9			0.9	0.9			1.175	0.825	1.65		0.825		1.65						
312	1.175	1.175	1.175	1.175					1.175					1.65							
313	1.175	1.175	1.175	1.175					1.175						1.65						
314	0.9	0.9	0.9	0.9					1.175					1.65							
315	0.9	0.9	0.9	0.9					1.175						1.65						
316	1.175	1.175	1.175	1.175					1.175												1.65
317	0.9	0.9	0.9	0.9					1.175												1.65
318	1.175	1.175	1.175			1.175			1.175								1.65				
319	1.175	1.175		1.175	1.175				1.175				0.825					1.65			
320	1.175	1.175		1.175	1.175				1.175				1.65					1.65			
321	1.175	1.175	1.175	1.175					1.175								1.65	1.65			
322	1.175	1.175			1.175	1.175			1.175								1.65	1.65			
323	1.175	1.175		1.175			1.175		1.175												
324	1.175	1.175		1.175			1.175		1.175							1.65					
325	1.175	1.175	1.175					1.175	1.175												
326	1.175	1.175	1.175					1.175	1.175							1.65					
327	1.175	1.175	1.175	1.175													1.65				
328	1.175	1.175	1.175	1.175														1.65			

	Design of Structural Members (involving Geotechnical Actions) such as footings, piles and Basement walls(A1.3.1(5)) STR,GEO SET C																			
Primary Loads	D1	D2	DE-1	DE-2	DO-1	DO-2	DT-1	DT-2	EP2	LL	AG	SN	FR	WL-X	WL-Z	WP-X	FL-1	FL-2	EQ-X	EQ-Z	TL
Load Case No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Load Combinations																					
401	1.1	1.1			1.1	1.1			1.1		1.43		0.715								1.43
402	1.1	1.1			1.1	1.1			1.1		1.43		1.43								1.001
403	1.1	1.1			1.1	1.1			1.1		1.43		0.715								1.001
404	1.1	1.1			1.1	1.1			1.1	0.715	1.43		0.715								
405	1.1	1.1			1.1	1.1			1.1	0.715	1.43		1.43								
406	1.1	1.1			1.1	1.1			1.1	1.43	1.43		0.715								
407	1.1	1.1			1.1	1.1			1.1	0.715	1.43	1.43	0.715								
408	1.1	1.1			1.1	1.1			1.1	0.715	1.43		0.715	1.43							
409	1.1	1.1			1.1	1.1			1.1	0.715	1.43		0.715		1.43						
410	1	1			1	1			1.1	0.715	1.43		0.715	1.43							
411	1	1			1	1			1.1	0.715	1.43		0.715		1.43						
412	1.1	1.1	1.1	1.1					1.1					1.43							
413	1.1	1.1	1.1	1.1					1.1						1.43						
414	1	1	1	1					1.1					1.43							
415	1	1	1	1					1.1						1.43						
416	1.1	1.1	1.1	1.1					1.1												1.43
417	1	1	1	1					1.1												1.43
418	1.1	1.1	1.1			1.1			1.1								1.43				
419	1.1	1.1		1.1	1.1				1.1				0.715					1.43			
420	1.1	1.1		1.1	1.1				1.1				1.43					1.43			
421	1.1	1.1	1.1	1.1					1.1								1.43	1.43			
422	1.1	1.1			1.1	1.1			1.1								1.43	1.43			
423	1.1	1.1		1.1			1.1		1.1												
424	1.1	1.1		1.1			1.1		1.1							1.43					
425	1.1	1.1	1.1					1.1	1.1												
426	1.1	1.1	1.1					1.1	1.1							1.43					
427	1.1	1.1	1.1	1.1													1.43				
428	1.1	1.1	1.1	1.1														1.43			

	Design for accidental and Seismic Design situation (A1.3.2) ACC,SEI																				
Primary Loads	D1	D2	DE-1	DE-2	DO-1	DO-2	DT-1	DT-2	EP2	LL	AG	SN	FR	WL-X	WL-Z	WP-X	FL-1	FL-2	EQ-X	EQ-Z	
Load Case No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
Load Combinations																					
501	1	1			1	1			1		0.8		0.3						1		
502	1	1			1	1			1		0.8		0.3							1	
503	1	1			1	1			1	0.3	0.8		0.3						1		
504	1	1			1	1			1	0.3	0.8		0.3							1	

Load cases 122, 222, 322, 422 not used.

6.2 Load combinations for Serviceability Limit Stare (SLS)

	SLS Load Combinations																				
Primary Loads	D1	D2	DE-1	DE-2	DO-1	DO-2	DT-1	DT-2	EP2	LL	AG	SN	FR	WL-X	WL-Z	WP-X	FL-1	FL-2	EQ-X	EQ-Z	TL
Load Case No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Load Combinations																					
1001	1	1			1	1			1		1		1								1
1002	1	1			1	1			1		1		1								1
1003	1	1			1	1			1		1		1								1
1004	1	1			1	1			1	1	1		1								
1005	1	1			1	1			1	1	1		1								
1006	1	1			1	1			1	1	1		1								
1007	1	1			1	1			1	1	1	1	1								
1008	1	1			1	1			1	1	1		1	1							
1009	1	1			1	1			1	1	1		1		1						
1010	0.9	0.9			0.9	0.9			1	1	1		1	1							
1011	0.9	0.9			0.9	0.9			1	1	1		1		1						
1012	1	1	1	1					1					1							
1013	1	1	1	1					1						1						
1014	0.9	0.9	0.9	0.9					1					1							
1015	0.9	0.9	0.9	0.9					1						1						
1016	1	1	1	1					1												1
1017	0.9	0.9	0.9	0.9					1												1
1018	1	1	1			1			1								1				
1019	1	1		1	1				1				1					1			
1020	1	1		1	1				1				1					1			
1021	1	1	1	1					1								1	1			
1022	1	1			1	1			1								1	1			
1023	1	1		1			1		1												
1024	1	1		1			1		1							1					
1025	1	1	1					1	1												
1026	1	1	1					1	1							1					
1027	1	1	1	1													1				
1028	1	1	1	1														1			

Load case 1022 not used.

7. RESULTS

7.1 Check for Maximum factored Pile Reaction (ULS Combinations)

The below table shows the Maximum factored reactions each pile and the local maximum reaction for pile under each equipment.

Maximum Reactions per pile Piles under Degasser Tanks				Max. Comp. Capacity (kN)
Node	LC	Pile Dia (mm)	MAX FY (kN)	
6205	227	450	650.657	984
6220	221	450	603.985	
6327	227	450	651.515	
6342	221	450	604.953	
6909	227	450	603.544	
6910	227	450	665.115	
6938	221	450	573.293	
6940	221	450	608.013	
7015	227	450	665.318	
7016	227	450	605.574	
7044	221	450	608.298	
7046	221	450	575.051	

Maximum Reactions per pile Piles under Blanketing Oil Tank				Max. Comp. Capacity (kN)
Node	LC	Pile Dia (mm)	MAX FY (kN)	
431	218	450	603.845	767
531	218	450	596.53	
558	218	450	648.442	
624	204	450	653.264	
684	204	450	655.834	
699	204	450	597.373	
809	204	450	596.196	
1530	218	450	580.793	
1635	218	450	531.49	
1649	204	450	627.771	
1769	204	450	634.668	
1795	204	450	531.34	
1890	204	450	570.871	

Project Details			
Customer	NOURYON INDUSTRIAL CHEMICALS B.V.	**Project No.**	NR1038
Project Title	Brine Field Project - Haaksbergen	**Calc No.**	1.333.464
Calculation Title	Degasser and Blanketing Oil Pit	**Phase/CTR**	Execute
Elec File Location	NR1038/C.05/0025		

Rev	Date	By	Checked	Rev	Date	By	Checked	Rev	Date	By	Checked
A	31-May-21	5.1	5.								

Maximum Reactions per pile Piles under Periphery				Max. Comp. Capacity (kN)
Node	LC	Pile Dia (mm)	MAX FY (kN)	
142	221	450	586.326	767
457	221	450	546.585	
667	221	450	519.328	
877	228	450	515.826	
1108	228	450	514.09	
1122	228	450	543.955	
1285	221	450	544.686	
1601	218	450	393.408	
1605	221	450	408.837	
1841	204	450	367.544	
1845	228	450	354.244	
2025	228	450	402.418	
2192	219	450	525.839	
2205	219	450	449.553	
2227	227	450	574.502	
2254	218	450	663.224	
2455	227	450	581.841	
2686	227	450	561.889	
3001	221	450	548.712	
3232	221	450	567.863	
3348	218	450	663.65	
3374	218	450	575.304	
3574	227	450	583.723	
3794	227	450	565.229	
4094	221	450	551.373	
4314	221	450	558.025	

Project Details			
Customer	NOURYON INDUSTRIAL CHEMICALS B.V.	**Project No.**	NR1038
Project Title	Brine Field Project - Haaksbergen	**Calc No.**	1.333.464
Calculation Title	Degasser and Blanketing Oil Pit	**Phase/CTR**	Execute
Elec File Location	NR1038/C.05/0025		

Maximum Reactions per pile Piles under other area				Max. Comp. Capacity (kN)
Node	LC	Pile Dia (mm)	MAX FY (kN)	
34	221	450	615.77	767
156	221	450	618.395	
288	218	450	545.119	
317	221	450	556.908	
948	228	450	524.623	
981	219	450	501.779	
1171	221	450	602.09	
1272	221	450	605.65	
1439	221	450	495.493	
2038	228	450	455.794	
2466	218	450	697.793	
2475	218	450	727.167	
3147	221	450	635.027	
3199	221	450	618.008	
3336	221	450	657.766	
3564	218	450	698.721	
4266	221	450	615.26	
6430	227	450	598.706	
6441	223	450	640.257	
6452	227	450	600.316	

7.2 Check for Maximum settlement of piles (SLS Combinations)

Below table shows Maximum settlements under each equipment.

Maximum Pile Settlement under	Node	Load Combination	Vertical - Y (mm)
1. Under Degasser	7015	1009	-7.53
2. Under Oil Tank	684	1004	-7.424
3. Under Perifery	3348	1018	-7.069
4. Under other	2475	1018	-7.758

7.3 Design of reinforcement for Base Slab

Plate Moments for ULS conditions

DBT-R13E-1(12.05.2021)-PINNED.STD - Plate Center Stress: G8: _ALLBASEPLATE

Shear, Membrane and Bending | Summary | Principal and Von Mis | Summary | Global Moments | Combined Stresses

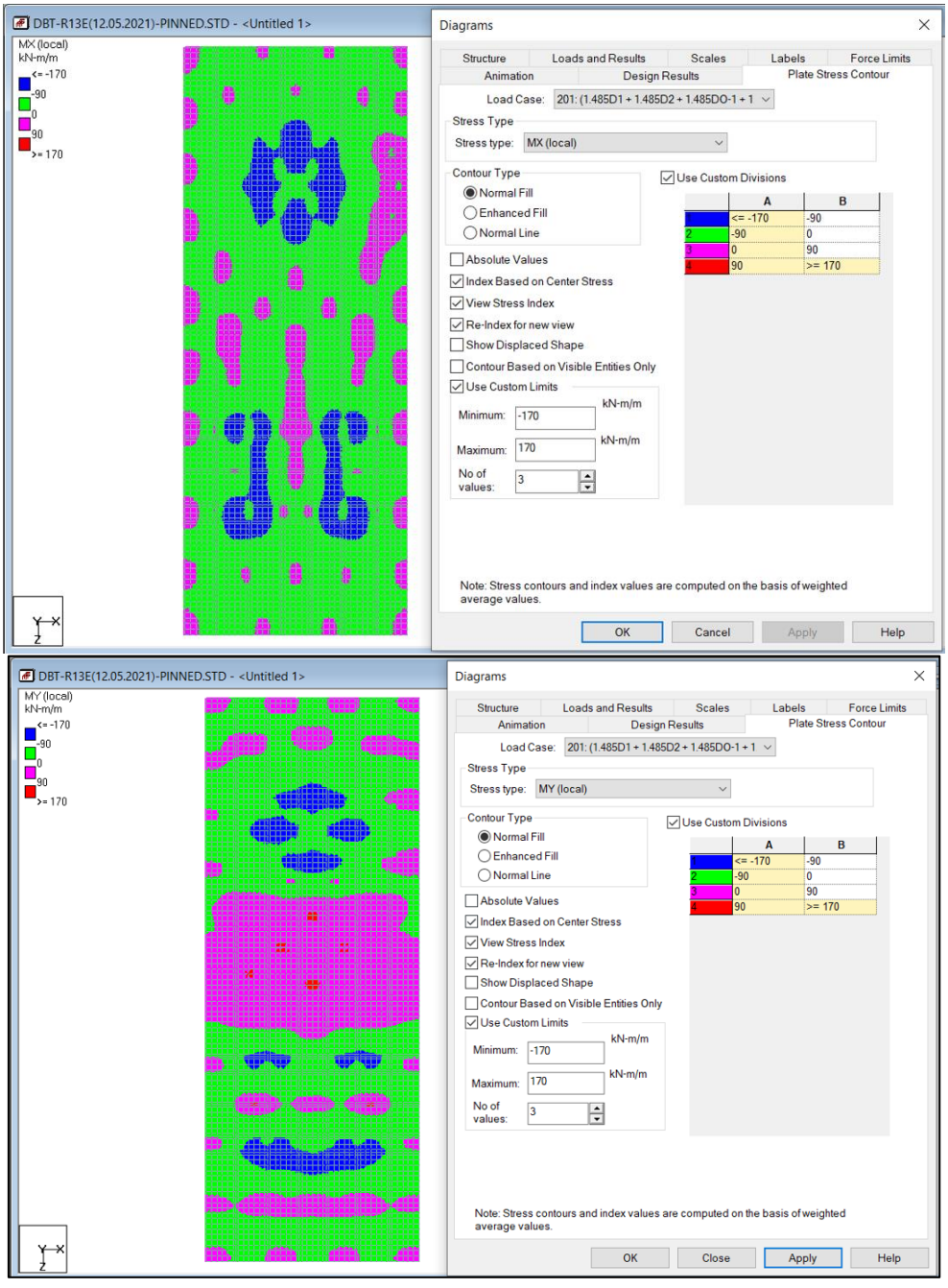
			Shear		Membrane			Bending Moment		
	Plate	L/C	SQX (local) kN/m2	SQY (local) kN/m2	SX (local) kN/m2	SY (local) kN/m2	SXY (local) kN/m2	Mx kN-m/m	My kN-m/m	Mxy kN-m/m
Max Qx	8299	204 (1.485D1	**805.436**	765.503	25.593	34.544	4.656	16.165	-51.455	-6.962
Min Qx	8498	204 (1.485D1	**-805.517**	765.728	26.171	37.367	-0.673	16.305	-51.410	6.964
Max Qy	8497	227 (1.485D1	562.361	**796.947**	40.918	100.245	3.794	66.033	90.288	3.637
Min Qy	6437	218 CAL-1 (1.4	684.399	**-778.915**	85.996	85.541	-7.470	66.634	52.026	-0.892
Max Sx	2157	221 CAL-3 (1.4	5.714	-128.767	**425.029**	59.233	13.000	-40.605	6.044	1.033
Min Sx	1534	218 CAL-1 (1.4	41.284	-119.572	**-277.339**	-247.358	115.823	17.778	38.408	-44.380
Max Sy	1337	228 (1.485D1	91.666	-64.526	57.052	**391.980**	7.521	4.365	-31.053	11.257
Min Sy	3098	219 CAL-2A (1	395.114	-432.536	-34.623	**-334.811**	14.979	32.914	65.889	-21.262
Max Sxy	1477	221 CAL-3 (1.4	-37.781	-49.162	31.559	186.127	**201.947**	9.417	-5.156	15.415
Min Sxy	3215	221 CAL-3 (1.4	-30.972	38.248	146.388	36.334	**-201.001**	-7.037	26.410	-28.430
Max Mx	7891	221 CAL-3 (1.4	-267.785	-318.906	3.364	68.623	-2.082	**135.766**	150.681	-16.223
Min Mx	1683	201 (1.485D1	-61.154	42.169	16.010	19.366	-10.273	**-149.591**	-85.954	-12.555
Max My	1618	221 CAL-3 (1.4	-235.288	225.419	-8.092	67.180	-3.288	132.549	**160.083**	1.771
Min My	8802	201 (1.485D1	-113.412	-13.726	23.864	32.272	2.166	-104.969	**-141.450**	17.725
Max Mxy	400	201 (1.485D1	-80.259	46.885	-15.327	11.720	37.265	-2.787	-5.269	**57.456**
Min Mxy	8063	201 (1.485D1	-67.111	-96.266	30.124	-13.126	-28.746	15.951	10.546	**-56.076**

Plate Moments for SLS conditions

DBT-R13E-1(12.05.2021)-PINNED.STD - Plate Center Stress: G8: _ALLBASEPLATE

Shear, Membrane and Bending | Summary | Principal and Von Mis | Summary | Global Moments | Combined Stresses

			Shear		Membrane			Bending Moment		
	Plate	L/C	SQX (local) kN/m2	SQY (local) kN/m2	SX (local) kN/m2	SY (local) kN/m2	SXY (local) kN/m2	Mx kN-m/m	My kN-m/m	Mxy kN-m/m
Max Qx	8299	1009 (1.0D1 +	**558.821**	576.386	15.833	26.655	8.687	9.630	-40.247	-3.062
Min Qx	8498	1009 (1.0D1 +	**-558.875**	576.545	16.262	28.661	-5.799	9.730	-40.215	3.066
Max Qy	8498	1009 (1.0D1 +	-558.875	**576.545**	16.262	28.661	-5.799	9.730	-40.215	3.066
Min Qy	7915	1004 (1.0D1 +	-416.926	**-515.190**	8.493	23.143	3.874	-12.267	-21.542	14.428
Max Sx	2157	1021 CAL-3(1.	3.645	-81.017	**267.540**	36.014	8.280	-25.888	3.339	0.660
Min Sx	1534	1018 CAL-1 (1.	24.483	-82.277	**-178.792**	-164.469	72.987	11.222	24.010	-28.757
Max Sy	1337	1028 (1.0D1 +	57.358	-41.562	35.048	**248.215**	5.752	2.425	-19.723	7.268
Min Sy	3098	1019 CAL-2A (	261.076	-291.183	-22.760	**-210.079**	7.205	21.804	42.827	-14.741
Max Sxy	1477	1021 CAL-3(1.	-24.703	-29.736	19.042	116.986	**128.449**	5.760	-3.358	9.600
Min Sxy	3215	1021 CAL-3(1.	-19.814	24.950	92.529	22.069	**-128.137**	-4.568	16.700	-18.192
Max Mx	7891	1021 CAL-3(1.	-175.183	-208.481	1.202	42.391	-1.228	**86.321**	95.443	-10.509
Min Mx	1683	1002 (1.0D1 +	-41.227	28.321	10.118	13.536	-8.294	**-100.756**	-57.828	-8.461
Max My	1618	1021 CAL-3(1.	-153.929	147.687	-5.963	41.512	-2.130	84.249	**101.495**	1.176
Min My	8802	1009 (1.0D1 +	-80.787	-6.593	13.870	16.479	-0.152	-73.468	**-108.859**	10.692
Max Mxy	400	1001 (1.0D1 +	-53.982	31.598	-10.591	5.845	24.741	-1.842	-3.455	**38.667**
Min Mxy	8063	1002 (1.0D1 +	-45.378	-64.934	20.265	-6.446	-19.526	10.783	7.287	**-37.716**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MX (local)
kN-m/m
<= -170
-90
0
90
>= 170
Diagrams
Structure
Loads and Results
Scales
Labels
Force Limits
Animation
Design Results
Plate Stress Contour
Load Case:
201: (1.485D1 + 1.485D2 + 1.485DO-1 + 1
Stress Type
Stress type:
MX (local)
Contour Type
Normal Fill
Enhanced Fill
Normal Line
Use Custom Divisions
A
B
<= -170
-90
-90
0
0
90
90
>= 170
Absolute Values
Index Based on Center Stress
View Stress Index
Re-Index for new view
Show Displaced Shape
Contour Based on Visible Entities Only
Use Custom Limits
Minimum:
-170
kN-m/m
Maximum:
170
kN-m/m
No of values:
3
Note: Stress contours and index values are computed on the basis of weighted average values.
OK
Cancel
Apply
Help
DBT-R13E(12.05.2021)-PINNED.STD - <Untitled 1>
MY (local)
kN-m/m
<= -170
-90
0
90
>= 170
Diagrams
Structure
Loads and Results
Scales
Labels
Force Limits
Animation
Design Results
Plate Stress Contour
Load Case:
201: (1.485D1 + 1.485D2 + 1.485DO-1 + 1
Stress Type
Stress type:
MY (local)
Contour Type
Normal Fill
Enhanced Fill
Normal Line
Use Custom Divisions
A
B
<= -170
-90
-90
0
0
90
90
>= 170
Absolute Values
Index Based on Center Stress
View Stress Index
Re-Index for new view
Show Displaced Shape
Contour Based on Visible Entities Only
Use Custom Limits
Minimum:
-170
kN-m/m
Maximum:
170
kN-m/m
No of values:
3
Note: Stress contours and index values are computed on the basis of weighted average values.
OK
Close
Apply
Help

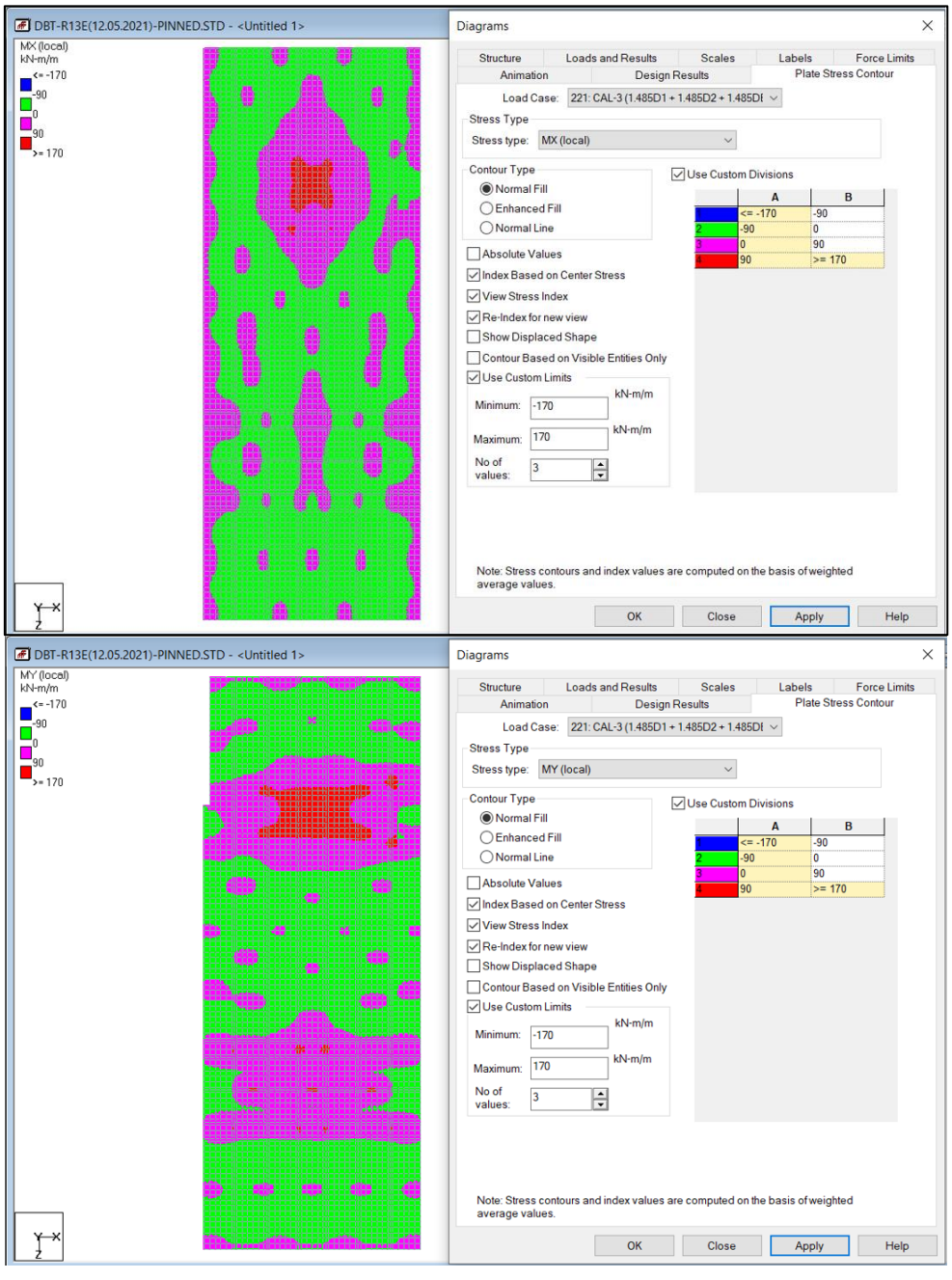
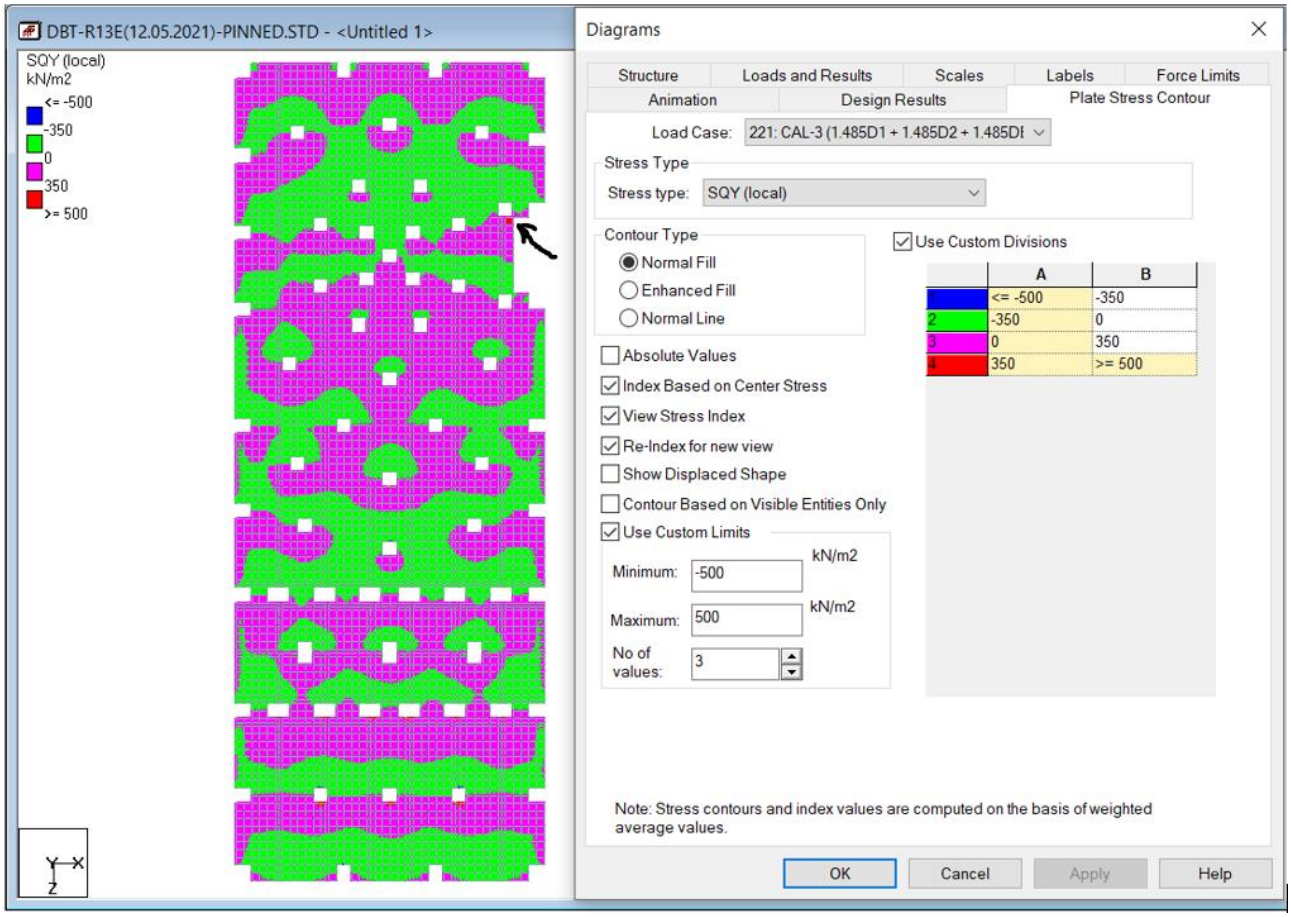

DBT-R13E(12.05.2021)-PINNED.STD - <Untitled 1>
MX (local)
kN-m/m
<= -170
-90
0
90
>= 170
Diagrams
Structure
Loads and Results
Scales
Labels
Force Limits
Animation
Design Results
Plate Stress Contour
Load Case:
221: CAL-3 (1.485D1 + 1.485D2 + 1.485DI
Stress Type
Stress type:
MX (local)
Contour Type
Normal Fill
Enhanced Fill
Normal Line
Use Custom Divisions
A
B
<= -170
-90
-90
0
0
90
90
>= 170
Absolute Values
Index Based on Center Stress
View Stress Index
Re-Index for new view
Show Displaced Shape
Contour Based on Visible Entities Only
Use Custom Limits
Minimum:
-170
kN-m/m
Maximum:
170
kN-m/m
No of values:
3
Note: Stress contours and index values are computed on the basis of weighted average values.
OK
Close
Apply
Help
DBT-R13E(12.05.2021)-PINNED.STD - <Untitled 1>
MY (local)
kN-m/m
<= -170
-90
0
90
>= 170
Diagrams
Structure
Loads and Results
Scales
Labels
Force Limits
Animation
Design Results
Plate Stress Contour
Load Case:
221: CAL-3 (1.485D1 + 1.485D2 + 1.485DI
Stress Type
Stress type:
MY (local)
Contour Type
Normal Fill
Enhanced Fill
Normal Line
Use Custom Divisions
A
B
<= -170
-90
-90
0
0
90
90
>= 170
Absolute Values
Index Based on Center Stress
View Stress Index
Re-Index for new view
Show Displaced Shape
Contour Based on Visible Entities Only
Use Custom Limits
Minimum:
-170
kN-m/m
Maximum:
170
kN-m/m
No of values:
3
Note: Stress contours and index values are computed on the basis of weighted average values.
OK
Close
Apply
Help

Plate Shear for ULS conditions – At 1d from Pile Face

DBT-R13E(12.05.2021)-PINNED.STD - Plate Center Stress: G11: _SHEAR1DOUT

Shear, Membrane and Bending | Summary | Principal and Von Mis | Summary | Global Moments | Combined Stresses

			Shear		Membrane			Bending Moment		
	Plate	L/C	SQX (local) kN/m2	SQY (local) kN/m2	SX (local) kN/m2	SY (local) kN/m2	SXY (local) kN/m2	Mx kN-m/m	My kN-m/m	Mxy kN-m/m
Max Qx	8956	204 (1.485D1	**266.471**	82.220	3.668	69.545	-4.646	-31.698	-67.496	-15.027
Min Qx	8934	204 (1.485D1	**-266.480**	81.572	5.513	60.742	2.418	-32.314	-67.405	14.953
Max Qy	1733	221 CAL-3 (1.	148.940	**470.315**	-34.772	-235.624	-61.650	-1.897	107.974	-30.392
Min Qy	1553	221 CAL-3 (1.	88.654	**-344.399**	-123.312	-293.293	131.489	17.001	92.704	7.887
Max Sx	2157	221 CAL-3 (1.	5.714	-128.767	**425.029**	59.233	13.000	-40.605	6.044	1.033
Min Sx	1534	218 CAL-1 (1.	41.284	-119.572	**-277.339**	-247.358	115.823	17.778	38.408	-44.380
Max Sy	1337	228 (1.485D1	91.666	-64.526	57.052	**391.980**	7.521	4.365	-31.053	11.257
Min Sy	1553	227 (1.485D1	37.779	-252.211	-164.271	**-295.107**	104.682	10.838	70.927	0.163
Max Sxy	1477	221 CAL-3 (1.	-37.781	-49.162	31.559	186.127	**201.947**	9.417	-5.156	15.415
Min Sxy	3215	221 CAL-3 (1.	-30.972	38.248	146.388	36.334	**-201.001**	-7.037	26.410	-28.430
Max Mx	557	221 CAL-3 (1.	2.720	97.285	-5.204	67.956	-3.981	**117.219**	137.223	-9.653
Min Mx	1683	201 (1.485D1	-61.154	42.169	16.010	19.366	-10.273	**-149.591**	-85.954	-12.555
Max My	1619	221 CAL-3 (1.	-106.340	0.828	-11.046	64.349	-3.119	107.619	**143.143**	5.303
Min My	8802	201 (1.485D1	-113.412	-13.726	23.864	32.272	2.166	-104.969	**-141.450**	17.725
Max Mxy	400	201 (1.485D1	-80.259	46.885	-15.327	11.720	37.265	-2.787	-5.269	**57.456**
Min Mxy	8063	201 (1.485D1	-67.111	-96.266	30.124	-13.126	-28.746	15.951	10.546	**-56.076**



Refer to shear reinforcement Calculation below to provide shear reinforcement at the places where Shear is greater than 210 kN/m length (i.e Stress greater than 210/0.6 = 350 kN/m2)

Plate Shear for ULS conditions – At 2d from Pile Face

DBT-R13E(12.05.2021)-PINNED.STD - Plate Center Stress: G22: _SHEAR2DOUT

Shear, Membrane and Bending | Summary | Principal and Von Mis | Summary | Global Moments | Combined Stresses

			Shear		Membrane			Bending Moment		
	Plate	L/C	SQX (local) kN/m2	SQY (local) kN/m2	SX (local) kN/m2	SY (local) kN/m2	SXY (local) kN/m2	Mx kN-m/m	My kN-m/m	Mxy kN-m/m
Max Qx	8620	223 (1.485	**177.131**	-26.973	25.916	29.056	2.002	-38.778	4.977	1.516
Min Qx	8623	223 (1.485	**-177.032**	-27.021	26.193	30.892	3.827	-38.688	4.946	-1.508
Max Qy	1713	221 CAL-3 (	-22.028	**344.088**	13.934	-207.064	-22.594	-0.610	53.489	-35.271
Min Qy	1573	221 CAL-3 (	-47.959	**-211.736**	9.457	-222.235	38.321	4.561	43.903	14.928
Max Sx	2157	221 CAL-3 (	5.714	-128.767	**425.029**	59.233	13.000	-40.605	6.044	1.033
Min Sx	1530	218 CAL-1 (	97.595	-33.785	**-112.715**	-22.067	0.894	-14.273	17.253	-27.795
Max Sy	1337	228 (1.485	91.666	-64.526	57.052	**391.980**	7.521	4.365	-31.053	11.257
Min Sy	3138	219 CAL-2A	56.873	-129.206	-9.278	**-236.825**	65.597	3.863	12.428	-15.811
Max Sxy	1477	221 CAL-3 (	-37.781	-49.162	31.559	186.127	**201.947**	9.417	-5.156	15.415
Min Sxy	3214	221 CAL-3 (	-108.481	-29.081	238.551	52.768	**-199.869**	-25.510	12.763	-25.061
Max Mx	7900	221 CAL-3 (	79.306	-11.232	-5.135	70.384	-0.375	**106.910**	126.724	-6.157
Min Mx	1683	201 (1.485	-61.154	42.169	16.010	19.366	-10.273	**-149.591**	-85.954	-12.555
Max My	7900	221 CAL-3 (	79.306	-11.232	-5.135	70.384	-0.375	106.910	**126.724**	-6.157
Min My	7924	201 (1.485	-50.794	-69.150	13.714	31.179	-1.250	-104.090	**-139.138**	11.737
Max Mxy	361	201 (1.485	-13.909	-17.853	1.431	13.105	37.509	-12.180	-10.499	**56.701**
Min Mxy	347	221 CAL-3 (	-29.574	-14.298	66.220	59.340	6.720	-26.223	-10.908	**-55.418**

Plate Shear for ULS conditions – At d/2 from Degasser Equipment pedestal

DBT-R13E-1(12.05.2021)-PINNED.STD - Plate Center Stress: G11: _DEGAS-SH_DBY2

Shear, Membrane and Bending | Summary | Principal and Von Mis | Summary | Global Moments | Combined Stresses

			Shear		Membrane			Bending Moment		
	Plate	L/C	SQX (local) kN/m2	SQY (local) kN/m2	SX (local) kN/m2	SY (local) kN/m2	SXY (local) kN/m2	Mx kN-m/m	My kN-m/m	Mxy kN-m/m
Max Qx	3619	227 (1.485D1	**244.053**	198.844	41.166	100.441	2.937	9.241	74.775	-6.868
Min Qx	2576	227 (1.485D1	**-243.608**	198.787	41.447	99.727	-0.370	9.115	74.725	6.984
Max Qy	8852	221 CAL-3 (1.4	80.407	**263.549**	33.898	84.587	5.302	6.843	25.139	-8.544
Min Qy	7723	221 CAL-3 (1.4	-45.945	**-205.804**	6.342	25.815	-3.801	23.647	37.079	-16.726
Max Sx	7654	327 (1.1748D1	0.337	-126.089	**52.528**	80.178	1.185	19.857	20.460	-9.110
Min Sx	7646	228 (1.485D1	26.166	25.082	**-35.793**	-9.479	7.532	-29.626	10.824	-0.415
Max Sy	8851	227 (1.485D1	21.921	208.669	44.853	**101.730**	2.512	0.141	3.378	-3.046
Min Sy	7628	228 (1.485D1	-10.508	-69.074	-29.326	**-89.770**	-3.936	11.028	13.610	-7.822
Max Sxy	7724	223 (1.485D1	89.248	-54.179	-7.693	38.141	**40.841**	-17.645	-41.215	35.058
Min Sxy	7628	223 (1.485D1	-89.417	-53.378	-9.353	17.551	**-41.083**	-18.011	-40.183	-35.806
Max Mx	7653	221 CAL-3 (1.4	-54.334	-187.990	20.284	67.295	5.983	**33.265**	51.103	-14.981
Min Mx	8795	204 (1.485D1	-52.277	-127.819	17.180	42.630	1.390	**-128.886**	-113.577	11.971
Max My	2876	221 CAL-3 (1.4	-211.095	144.577	17.669	67.289	5.467	30.372	**90.397**	7.408
Min My	8919	201 (1.485D1	-23.304	-10.697	23.061	32.706	2.873	-96.276	**-136.311**	7.826
Max Mxy	7720	223 (1.485D1	154.187	47.191	-3.903	37.989	25.584	-63.794	-67.602	**45.397**
Min Mxy	7632	223 (1.485D1	-154.149	48.023	-5.242	20.086	-23.444	-64.041	-66.744	**-46.053**

Project Details			
Customer	NOURYON INDUSTRIAL CHEMICALS B.V.	**Project No.**	NR1038
Project Title	Brine Field Project - Haaksbergen	**Calc No.**	1.333.464
Calculation Title	Degasser and Blanketing Oil Pit	**Phase/CTR**	Execute
Elec File Location	NR1038/C.05/0025		

Rev	Date	By	Checked	Rev	Date	By	Checked	Rev	Date	By	Checked
A	31-May-21	5.1	5.								

Capacity of 600 thk slab with a Basic Mesh of T12 – 125 c/c.

Rebar calculation according NEN-EN-1992-1-1 Eurocode with NAD (NL) — *version:* 2/20/2020

BASE SLAB

Section-forces				Shear			
M_{Ed} =	95.0	kNm		N_{Ed} =	0.0	kN (+ = compression)	
M_{fr} =	68.0	kNm	(G_k+ψ_1*Q_1+ψ_2*Q_2)	No. of sections:	4	pcs	
V_{Ed} =		kN		$\phi_{stirrup}$ =	10	mm	
Section				s_l =	300	mm	(c.t.c. distance)
h =	600	mm		f_{yk} =	500	N/mm^2	
b =	1000	mm		θ =	22	Angle of compressionzone	
type: floor or beam	floor					with length-axis	
Material							
Class	C30/37		table 3.1	***Main Results:***			
α_{cc} =	1.00			Rebar for bending			
γ_c =	1.50		table 2.1N	$A_{s,req}$	<=	$A_{s,applied}$	
Cover				405	<=	1018	mm^2
Construction Class=	S4			M_{ED}	<=	M_{RD}	
Environmental. Class =	XC4			95	<=	239	kNm
Chosen cover: c =	50	mm		Min. and max. bending rebar			
minimum cover: c_{nom}	35	mm	(4.1)	A_{smin}	<=	$A_{s,applied}$	
$c_{surfacing}$ =	0	mm	4.4.1.2 (11)	516	<=	1018	mm^2
No. of bundles=	1	no.		$A_{s,applied}$	<=	$A_{s,max}$	
Rebar:				1018	<=	9854	mm^2
type =	B500x			Crackwidth			
f_{yk} =	500	N/mm^2		w_k	<=	w_{max} * k_x	
γ_s =	1.15			0.128	<=	0.429	mm
f_{yd}=	435	N/mm^2		Shear			
$\phi_{main\ rebar;\ 1}$ =	12	mm		V_d <= $V_{Rd,c}$	otherwise, shear rebar is required		
No. =	9			0.0	<=	212	kN
$\phi_{main\ rebar;\ 2}$ =	0	mm		condition (6.5)			
No. =	0			0.0	<=	2848	kN
$A_{s,applied}$ =	1018	mm^2		eis V_d <= V_{Rd}	capacity shear rebar		
For slabs with rebar in 2nd layer: indicate thickness of first				0.0	<=	N.A	kN
layer (called cover-rebar):	0	mm		$\rho_{w,min}$ =	0.0009	mm^2/m	(9.5N)
Crackwidth check:				$\rho_{w,min}$	<=	ρ_w	
k_t =	0.40	(0.4 for long term load)		0.0009	<=	N.A.	
		(0.6 for short term load)					

CRACK WIDTH CHECK							
exposure class	XC4			$A_{c,eff}$ =	140000	mm^2	7.3.2. (3)
w_{max} =	0.30	mm	limit value tbl 7.1N	α_e =	6.1		
k_x =	1.43		7.3.1 (5)	E_s =	200,000	N/mm^2	
w_k =	0.13	mm	(7.8)	E_{cm} =	32837	N/mm^2	table 3.1
$x_{elastic}$ =	76	mm		w_k	<=	$w_{max} * k_x$	
ρ_{pl} =	0.0019	%	$\rho_{pl} = A_{s,applied}/(b*d)$	0.128	<=	0.429	mm
$s_{r,max}$ =	451	mm	(7.11) of (7.14)				
$s_{r,max}$ =	312	mm	(7.11_NB2016)	MIN. REBAR TO HANDLE CONCRETE CRACKS, 7.3.2			
k_1 =	0.8		good bondage	A_{smin} =	1824	mm^2/m	(7.1)
k_2 =	0.5		bending	σ_s =	124	N/mm^2	
k_3 =	3.4			$f_{ct,eff} = f_{ctm}$ =	2.90	N/mm^2	
k_4 =	0.425			k =	0.65		
$\varepsilon_{sm} - \varepsilon_{cm}$ =	0.041%		(7.9)	k_c =	0.4	pressure forces neglected	
σ_s =	124	N/mm^2		A_{ct} =	300000	mm^2/m	
k_t =	0.40		long term load	A_{smin}	<=	$A_{s,applied}$	
$f_{ct,eff} = f_{ctm}$ =	2.90	N/mm^2		1824	>	1018	mm^2
$\rho_{p,eff}$ =	0.007	%	(7.10)				

Thus, a 600 Thk Slab with basic mesh of T12-125 c/c can resist

Factored Moment upto 95 kNm per meter.
Service Moment upto 68 kNm per meter. (To keep Crack width below 0.2 mm)
Factored shear upto 210 kN/m. (To keep the section without shear reinforcement)

Project Details			
Customer	NOURYON INDUSTRIAL CHEMICALS B.V.	**Project No.**	NR1038
Project Title	Brine Field Project - Haaksbergen	**Calc No.**	1.333.464
Calculation Title	Degasser and Blanketing Oil Pit	**Phase/CTR**	Execute
Elec File Location	NR1038/C.05/0025		

								Page	61	**of**	68
Rev	**Date**	**By**	**Checked**	**Rev**	**Date**	**By**	**Checked**	**Rev**	**Date**	**By**	**Checked**
A	31-May-21	5.1	5.								

For regions where moments/shear are greater than above capacities, following reinforcement to be adopted.

Rebar calculation according NEN-EN-1992-1-1 Eurocode with NAD (NL) — *version:* 2/20/2020

BASE SLAB

Section-forces				Shear			
M_{Ed} =	167.0	kNm		N_{Ed} =	0.0	kN (+ = compression)	
M_{fr} =	120.0	kNm	$(G_k+\psi_1*Q_1+\psi_2*Q_2)$	No. of sections:	4	pcs	
V_{Ed} =	283.0	kN		$\phi_{stirrup}$ =	10	mm	
Section				s_l =	300	mm	(c.t.c. distance)
h =	600	mm		f_{yk} =	500	N/mm^2	
b =	1000	mm		θ =	22	Angle of compressionzone	
type: floor or beam	floor					with length-axis	
Material							
Class	C30/37		table 3.1	***Main Results:***			
α_{cc} =	1.00			Rebar for bending			
γ_c =	1.50		table 2.1N	$A_{s,req}$	<=	$A_{s,applied}$	
Cover				719	<=	1810	mm^2
Construction Class=	S4			M_{ED}	<=	M_{RD}	
Environmental. Class =	XC4			167	<=	420	kNm
Chosen cover: c =	50	mm		Min. and max. bending rebar			
minimum cover: c_{nom}	35	mm	(4.1)	A_{smin}	<=	$A_{s,applied}$	
$c_{surfacing}$ =	0	mm	4.4.1.2 (11)	763	<=	1810	mm^2
No. of bundles=	1	no.		$A_{s,applied}$	<=	$A_{s,max}$	
Rebar:				1810	<=	9817	mm^2
type =	B500x			Crackwidth			
f_{yk} =	500	N/mm^2		w_k	<=	w_{max} * k_x	
γ_s =	1.15			0.159	<=	0.429	mm
f_{yd}=	435	N/mm^2		Shear			
$\phi_{main\ rebar;\ 1}$ =	16	mm		V_d <= $V_{Rd,c}$	otherwise, shear rebar is required		
No. =	9			283.0	>	225	kN
$\phi_{main\ rebar;\ 2}$ =	0	mm		condition (6.5)			
No. =	0			283.0	<=	2819	kN
$A_{s,applied}$ =	1810	mm^2		eis V_d <= V_{Rd}	capacity shear rebar		
For slabs with rebar in 2nd layer: indicate thickness of first				283.0	<=	N.A	kN
layer (called cover-rebar):	0	mm		$\rho_{w,min}$ =	0.0009	mm^2/m	(9.5N)
Crackwidth check:				$\rho_{w,min}$	<=	ρ_w	
k_t =	0.40	(0.4 for long term load)		0.0009	<=	N.A.	
		(0.6 for short term load)					

CRACK WIDTH CHECK

exposure class	XC4			$A_{c,eff}$ =	145000	mm^2	7.3.2. (3)
w_{max} =	0.30	mm	limit value tbl 7.1N	α_e =	6.1		
k_x =	1.43		7.3.1 (5)	E_s =	200,000	N/mm^2	
w_k =	0.16	mm	(7.8)	E_{cm} =	32837	N/mm^2	table 3.1
$x_{elastic}$ =	99	mm		w_k	<=	$w_{max} * k_x$	
ρ_{pl} =	0.0033	%	$\rho_{pl} = A_{s,applied}/(b*d)$	0.159	<=	0.429	mm
$s_{r,max}$ =	388	mm	(7.11) of (7.14)				
$s_{r,max}$ =	388	mm	(7.11_NB2016)	MIN. REBAR TO HANDLE CONCRETE CRACKS, 7.3.2			
k_1 =	0.8		good bondage	A_{smin} =	1819	mm^2/m	(7.1)
k_2 =	0.5		bending	σ_s =	124	N/mm^2	
k_3 =	3.4			$f_{ct,eff} = f_{ctm}$ =	2.90	N/mm^2	
k_4 =	0.425			k =	0.65		
$\varepsilon_{sm} - \varepsilon_{cm}$ =	0.041%		(7.9)	k_c =	0.4	pressure forces neglected	
σ_s =	124	N/mm^2		A_{ct} =	300000	mm^2/m	
k_t =	0.40		long term load	A_{smin}	<=	$A_{s,applied}$	
$f_{ct,eff} = f_{ctm}$ =	2.90	N/mm^2		1819	>	1810	mm^2
$\rho_{p,eff}$ =	0.012	%	(7.10)				

SHEAR

υ_{Ed} =	0.532	N/mm^2		**capacity vertical stirrups (α = 90)**			
capacity plain concrete section				V_{Rd} =	590.2	kN	lowest of (6.8) & (6.9)
$V_{Rd,c}$ =	223.4	kN	(6.2.a)	$V_{Rd,s}$ =	590.2	kN	(6.8)
$C_{Rd,c}$ =	0.12			ϕ_{beugel} =	10	mm	
k =	1.61			no. of sections	4	pieces	
A_{sl} =	1810	mm^2/m		s_l =	300	mm	
b_w =	1000			$s_l <= s_{l,max}$ =	300	mm	max c-t-c dim. in length
ρ_l =	0.003			s_t =	297	mm	
k_1 =	0.15			$s_t <= s_{t,max}$ =	399	mm	max c-t-c dim. in width
N_{Ed} =	0.0	kN (+ = pressure)		A_{sw} =	314	mm^2	
A_c =	600000	mm^2		α =	90		angle (vertical stirrups)
σ_{cp} =	0.00	N/mm^2		ρ_w =	0.0010	mm^2/m	(9.4) applied stirrups
v_{min} =	0.393			f_{yk} =	500	N/mm^2	
v =	0.528		(6.6N)	γ_s =	1.15		
if $V_d > V_{Rd,c}$	than rebar for shear required.			f_{ywd} =	435	N/mm^2	
283.0	>	223.4	kN	z =	524	mm	
requirement (6.5)				θ =	22	angle of pressure-diag.vs beam axis	
283.0	<=	2765.3	kN	cot θ =	2.48	requirement 1,0 <= cot θ <= 2,5	
				$V_{Rd,max}$ =	1921	kN	(6.9)
				α_{cw} =	1.00		(6.11)
				$v_1 = v$ =	0.528		(6.6)
				UC: $V_d <= V_{Rd}$	: Proper shear rebar is applied		
				283.0	<=	590.2	kN
				$A_{sw,max}$ =	3643	mm^2/m	
				ΔF_{td} =	350	kN	(6.18) add. tensile force
				$A_{s,Rd}$ =	806	mm^2/m	add. main rebar required.
				shifted moment-line for certain dimension			
				dimension =	1317	mm	
				minimum amount of shear rebar			
				$\rho_{w,min}$ =	0.0009	mm^2/m	(9.5N)
				$\rho_{w,min}$	<=	ρ_w	for brittle fracture
				0.0009	<=	0.0010	

Provide T16 – 125 c/c top & bottom both ways. (Under Degasser tanks and Blanketing Oil Tank)
Provide Shear Reinforcement T10 @ 300 C/C (Equivalent to 4 bars per m of cross section) at the re-entrant corner of the wall (Along north south direction).

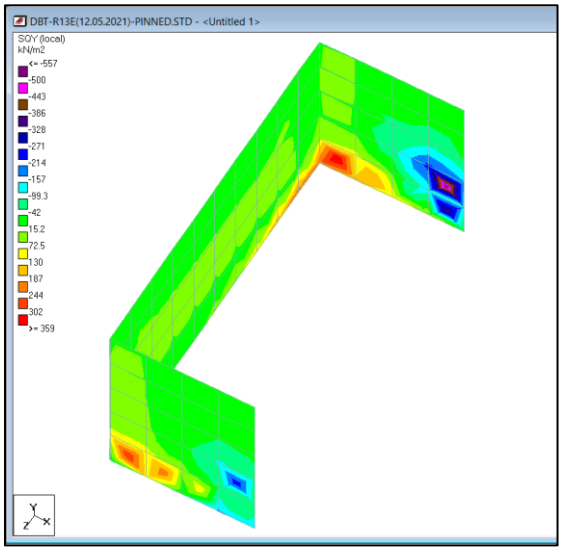
7.4 Design of reinforcement for Walls

Plate Moments for ULS conditions

DBT-R13E-1(12.05.2021)-PINNED.STD - Plate Center Stress: G12: _WALLS

Shear, Membrane and Bending | Summary | Principal and Von Mis | Summary | Global Moments | Combined Stresses

			Shear		Membrane			Bending Moment		
	Plate	L/C	SQX (local) kN/m2	SQY (local) kN/m2	SX (local) kN/m2	SY (local) kN/m2	SXY (local) kN/m2	Mx kN-m/m	My kN-m/m	Mxy kN-m/m
Max Qx	6061	218 CAL-1 (1.4	**153.767**	-369.177	58.353	80.453	5.496	0.037	11.818	-3.016
Min Qx	5977	221 CAL-3 (1.4	**-186.005**	-138.662	62.997	26.349	100.916	-3.221	1.045	2.522
Max Qy	5990	221 CAL-3 (1.4	-4.353	**358.812**	108.672	540.614	262.447	-3.116	-19.819	2.331
Min Qy	5976	221 CAL-3 (1.4	-179.124	**-557.394**	68.465	184.905	120.447	3.562	20.822	4.458
Max Sx	5669	219 CAL-2A (1	-27.372	-1.328	**1129.638**	-21.121	9.757	0.935	0.078	1.845
Min Sx	5874	218 CAL-1 (1.4	3.122	-1.639	**-2203.681**	0.496	11.319	0.093	0.077	-0.223
Max Sy	5990	321 CAL-3 (1.1	-3.464	345.958	109.028	**544.507**	244.709	-2.911	-18.423	2.139
Min Sy	5965	221 CAL-3 (1.4	2.482	-10.735	-99.940	**-975.120**	249.052	-0.378	0.310	0.003
Max Sxy	5960	218 CAL-1 (1.4	-19.475	-32.278	-91.115	-733.848	**712.297**	0.880	2.928	-1.169
Min Sxy	5775	218 CAL-1 (1.4	18.425	-33.330	-93.362	-791.083	**-730.015**	0.804	2.906	1.046
Max Mx	5974	218 CAL-1 (1.4	86.489	1.285	19.499	36.784	73.540	**10.046**	0.863	-0.888
Min Mx	4957	218 CAL-1 (1.4	-61.733	9.088	129.580	2.468	19.100	**-12.931**	-1.192	-0.138
Max My	5976	221 CAL-3 (1.4	-179.124	-557.394	68.465	184.905	120.447	3.562	**20.822**	4.458
Min My	5985	221 CAL-3 (1.4	35.405	164.587	-9.759	-169.393	217.186	-3.832	**-22.761**	0.381
Max Mxy	5988	221 CAL-3 (1.4	-1.603	-34.565	-6.301	-11.617	23.587	2.795	0.692	**6.790**
Min Mxy	6057	227 (1.485D1	35.012	-56.885	43.730	-55.442	15.196	2.490	1.616	**-5.849**



Stress Concentration direction SQY at reentrant wall.

Plate Moments for SLS conditions

DBT-R13E-1(12.05.2021)-PINNED.STD - Plate Center Stress: G12: _WALLS

Shear, Membrane and Bending | Summary | Principal and Von Mis | Summary | Global Moments | Combined Stresses

			Shear		Membrane			Bending Moment		
	Plate	L/C	SQX (local) kN/m2	SQY (local) kN/m2	SX (local) kN/m2	SY (local) kN/m2	SXY (local) kN/m2	Mx kN-m/m	My kN-m/m	Mxy kN-m/m
Max Qx	6061	1018 CAL-1 (1.	**96.285**	-228.273	37.860	43.280	7.573	-0.084	7.314	-1.845
Min Qx	5977	1021 CAL-3(1.	**-117.436**	-88.058	39.026	17.309	62.999	-1.979	0.682	1.598
Max Qy	5990	1021 CAL-3(1.	-2.925	**221.606**	65.747	326.390	164.777	-1.955	-12.462	1.475
Min Qy	5976	1021 CAL-3(1.	-112.968	**-354.035**	43.705	118.931	75.260	2.291	13.265	2.824
Max Sx	5669	1019 CAL-2A (	-18.735	-0.775	**690.722**	-13.997	4.396	0.559	0.043	1.257
Min Sx	5874	1018 CAL-1 (1.	2.117	-0.943	**-1435.790**	0.154	7.333	0.028	0.043	-0.151
Max Sy	5990	1021 CAL-3(1.	-2.925	221.606	65.747	**326.390**	164.777	-1.955	-12.462	1.475
Min Sy	5965	1021 CAL-3(1.	1.116	-5.859	-64.098	**-625.641**	162.435	-0.236	0.166	0.004
Max Sxy	5960	1018 CAL-1 (1.	-11.732	-17.616	-59.828	-479.074	**463.325**	0.530	1.620	-0.806
Min Sxy	5775	1018 CAL-1 (1.	10.982	-18.097	-61.584	-517.714	**-475.067**	0.474	1.584	0.731
Max Mx	4338	1008 (1.0D1 +	-39.214	-0.200	-75.281	-10.800	-17.519	**7.107**	0.632	0.098
Min Mx	4957	1018 CAL-1 (1.	-40.669	5.009	80.067	1.143	13.193	**-8.242**	-0.771	-0.030
Max My	5976	1021 CAL-3(1.	-112.968	-354.035	43.705	118.931	75.260	2.291	**13.265**	2.824
Min My	5985	1021 CAL-3(1.	22.150	98.755	-7.966	-114.661	138.503	-2.418	**-14.368**	0.236
Max Mxy	5988	1021 CAL-3(1.	-0.811	-21.810	-3.858	-9.242	13.918	1.774	0.431	**4.286**
Min Mxy	6057	1027 (1.0D1 +	21.879	-35.453	27.591	-39.634	10.439	1.562	1.022	**-3.657**

Project Details			
Customer	NOURYON INDUSTRIAL CHEMICALS B.V.	**Project No.**	NR1038
Project Title	Brine Field Project - Haaksbergen	**Calc No.**	1.333.464
Calculation Title	Degasser and Blanketing Oil Pit	**Phase/CTR**	Execute
Elec File Location	NR1038/C.05/0025		

Rev	Date	By	Checked	Rev	Date	By	Checked	Rev	Date	By	Checked
A	31-May-21	5.1	5.								

Rebar calculation according NEN-EN-1992-1-1 Eurocode with NAD (NL) — version: 2/20/2020

WALLS

Section-forces				Shear			
M_{Ed} =	26.0	kNm		N_{Ed} =	0.0	kN (+ = compression)	
M_{fr} =	17.0	kNm	$(G_k+\psi_1*Q_1+\psi_2*Q_2)$	No. of sections:	8	pcs	
V_{Ed} =	140.0	kN		$\phi_{stirrup}$ =	10	mm	
Section				s_l =	125	mm	(c.t.c. distance)
h =	250	mm		f_{yk} =	500	N/mm²	
b =	1000	mm		θ =	22	Angle of compressionzone	
type: floor or beam	beam					with length-axis	
Material							
Class	C30/37		table 3.1	***Main Results:***			
α_{cc} =	1.00			Rebar for bending			
γ_c =	1.50		table 2.1N	$A_{s,req}$	<=	$A_{s,applied}$	
Cover				332	<=	679	mm²
Construction Class=	S4			M_{ED}	<=	M_{RD}	
Environmental. Class =	XC4			26	<=	53	kNm
Chosen cover: c =	50	mm		Min. and max. bending rebar			
minimum cover: c_{nom}	35	mm	(4.1)	A_{smin}	<=	$A_{s,applied}$	
$c_{surfacing}$ =	0	mm	4.4.1.2 (11)	385	<=	679	mm²
No. of bundles=	1	no.		$A_{s,applied}$	<=	$A_{s,max}$	
Rebar:				679	<=	3395	mm²
type =	B500x			Crackwidth			
f_{yk} =	500	N/mm²		w_k	<=	w_{max} * k_x	
γ_s =	1.15			0.143	<=	0.429	mm
f_{yd}=	435	N/mm²		Shear			
$\phi_{main\ rebar;\ 1}$ =	12	mm		V_d <= $V_{Rd,c}$	otherwise, shear rebar is required		
No. =	6			140.0	>	100	kN
$\phi_{main\ rebar;\ 2}$ =	0	mm		condition (6.5)			
No. =	0			140.0	<=	952	kN
$A_{s,applied}$ =	679	mm²		eis V_d <= V_{Rd}	capacity shear rebar		
For slabs with rebar in 2nd layer: indicate thickness of first				140.0	<=	661	kN
layer (called cover-rebar):	0	mm		$\rho_{w,min}$ =	0.0009	mm²/m	(9.5N)
Crackwidth check:				$\rho_{w,min}$	<=	ρ_w	
k_t =	0.40	(0.4 for long term load)		0.0009	<=	0.0050	
		(0.6 for short term load)					

Thus Provide T12-150 c/c both way, each face for walls.

CRACK WIDTH CHECK

exposure class	XC4		
w_{max} =	0.30	mm	limit value tbl 7.1N
k_x =	1.43		7.3.1 (5)
w_k =	0.14	mm	(7.8)
$x_{elastic}$ =	35	mm	
ρ_{pl} =	0.0037	%	$\rho_{pl} = A_{s,applied}/(b*d)$
$s_{r,max}$ =	385	mm	(7.11) of (7.14)
$s_{r,max}$ =	312	mm	(7.11_NB2016)
k_1 =	0.8		good bondage
k_2 =	0.5		bending
k_3 =	3.4		
k_4 =	0.425		
$\varepsilon_{sm} - \varepsilon_{cm}$ =	0.046%		(7.9)
σ_s =	139	N/mm²	
k_t =	0.40		long term load
$f_{ct,eff} = f_{ctm}$ =	2.90	N/mm²	
$\rho_{p,eff}$ =	0.009	%	(7.10)

$A_{c,eff}$ =	71638	mm²	7.3.2. (3)
α_e =	6.1		
E_s =	200,000	N/mm²	
E_{cm} =	32837	N/mm²	table 3.1
w_k	<=	$w_{max} * k_x$	
0.143	<=	0.429	mm

MIN. REBAR TO HANDLE CONCRETE CRACKS, 7.3.2

A_{smin} =	677	mm²/m	(7.1)
σ_s =	139	N/mm²	
$f_{ct,eff} = f_{ctm}$ =	2.90	N/mm²	
k =	0.65		
k_c =	0.4		pressure forces neglected
A_{ct} =	125000	mm²/m	
A_{smin}	<=	$A_{s,applied}$	
677	<=	679	mm²

SHEAR

υ_{Ed} =	0.761	N/mm²	
capacity plain concrete section			
$V_{Rd,c}$ =	99.8	kN	(6.2.a)
$C_{Rd,c}$ =	0.12		
k =	2.00		
A_{sl} =	679	mm²/m	
b_w =	1000		
ρ_l =	0.004		
k_1 =	0.15		
N_{Ed} =	0.0	kN (+ = pressure)	
A_c =	250000	mm²	
σ_{cp} =	0.00	N/mm²	
v_{min} =	0.542		
v =	0.528		(6.6N)
if $V_d > V_{Rd,c}$	than rebar for shear required.		
140.0	>	99.8	kN
requirement (6.5)			
140.0	<=	951.8	kN

capacity vertical stirrups (α = 90)			
V_{Rd} =	661.2	kN	lowest of (6.8) & (6.9)
$V_{Rd,s}$ =	975.1	kN	(6.8)
ϕ_{beugel} =	10	mm	
no. of sections	8	pieces	
s_l =	125	mm	
$s_l <= s_{l,max}$ =	138	mm	max c-t-c dim. in length
s_t =	127	mm	
$s_t <= s_{t,max}$ =	138	mm	max c-t-c dim. in width
A_{sw} =	628	mm²	
α =	90		angle (vertical stirrups)
ρ_w =	0.0050	mm²/m	(9.4) applied stirrups
f_{yk} =	500	N/mm²	
γ_s =	1.15		
f_{ywd} =	435	N/mm²	
z =	180	mm	
θ =	22		angle of pressure-diag.vs beam axis
cot θ =	2.48		requirement 1,0 <= cot θ <= 2,5
$V_{Rd,max}$ =	661	kN	(6.9)
α_{cw} =	1.00		(6.11)
v_1 = v =	0.528		(6.6)
UC: $V_d <= V_{Rd}$	: Proper shear rebar is applied		
140.0	<=	661.2	kN
$A_{sw,max}$ =	1518	mm²/m	
ΔF_{td} =	173	kN	(6.18) add. tensile force
$A_{s,Rd}$ =	398	mm²/m	add. main rebar required.
shifted moment-line for certain dimension			
dimension =	455	mm	
minimum amount of shear rebar			
$\rho_{w,min}$ =	0.0009	mm²/m	(9.5N)
$\rho_{w,min}$	<=	ρ_w	for brittle fracture
0.0009	<=	0.0050	

Provide Shear Reinforcement at reentrant corner wall as T10 @ 125 C/C (Equivalent to 8 bars per m of cross section)

8. CONCLUSION

The Degasser and Blanketing Oil Pit is safe both in Stability, Serviceability and Strength.

Appendix A. [Staad Pro Input File]

(179 total pages)

Job Title: Nobian Brinefield Haaksbergen EPCm Proje

Client: Nouryon Industrial Chemicals B.V.

Engineer: 5.1
2

```
STAAD SPACE LOADING UNLOADING FLOOR
START JOB INFORMATION
ENGINEER DATE 03-May-21
JOB NAME Nobian Brinefield Haaksbergen EPCm Project
JOB CLIENT Nouryon Industrial Chemicals B.V.
JOB NO NR1038
JOB REV 5.
ENGINEER NAME PSA
END JOB INFORMATION
INPUT WIDTH 79
SET ITERLIM 25
SET NL 600
UNIT METER KN
JOINT COORDINATES
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9002 7259 5773 5825 7261; 9003 5775 7260 7262 5827; 9004 7260 5776 5828 7262;
START GROUP DEFINITION
ELEMENT
_DEGASSERBASE 2564 TO 2568 2570 TO 2574 2584 TO 2588 2590 TO 2594 -
2864 TO 2868 2870 TO 2874 2884 TO 2888 2890 TO 2894 3621 TO 3625 -
3627 TO 3631 3641 TO 3645 3647 TO 3651 3921 TO 3925 3927 TO 3931 -
3941 TO 3945 3947 TO 3951 6214 TO 6217 6244 TO 6247 6456 TO 6459 -
6486 TO 6489 8297 TO 8304 8349 TO 8356 8497 TO 8504 8549 TO 8556
_OILTANKBASE 393 394 396 397 412 TO 414 416 417 431 TO 434 436 437 -
450 TO 454 456 457 470 TO 474 476 477 488 490 TO 494 496 497 508 510 TO 514 -
516 517 528 530 TO 534 536 537 548 550 TO 554 556 557 568 570 TO 574 576 -
577 588 590 TO 594 596 597 608 610 TO 614 616 617 628 630 TO 634 636 637 -
648 650 TO 654 656 657 668 670 TO 674 676 677 690 TO 694 696 697 710 TO 714 -
716 717 731 TO 734 736 737 752 TO 754 756 757 773 774 776 777 1438 1439 1441 -
1442 1458 1459 1461 TO 1463 1478 1479 1481 TO 1484 1498 1499 1501 TO 1505 -
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1781 TO 1784 1798 1799 1801 TO 1803 1818 1819 1821 1822 6110 TO 6133 6352 -
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_OILTANKBASE 8110 8113 8114 8117 8118 8121 8122 8125 8126 8129 8130 8133 8134 -
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_DEGASPIT_BASE 18 TO 22 24 TO 28 30 TO 34 36 TO 42 44 TO 48 50 TO 54 -
56 TO 62 64 TO 68 70 TO 74 76 TO 82 84 TO 88 90 TO 94 96 TO 102 104 TO 108 -
110 TO 114 116 TO 122 124 TO 128 130 TO 134 136 137 1078 1079 1081 TO 1085 -
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2190 TO 2194 2196 TO 2202 2204 TO 2208 2210 TO 2214 2216 TO 2222 -
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2490 TO 2494 2496 TO 2502 2504 TO 2508
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_DEGASPIT_BASE 2510 TO 2514 2516 TO 2522 2524 TO 2528 2530 TO 2534 2536 2537 -
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2081 TO 2085 2087 TO 2091 2093 TO 2099 2101 TO 2105 2107 TO 2111 2113
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5157 TO 5161 5163 TO 5169 5171 TO 5175 5177 TO 5181 5183 TO 5234 -
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5945 TO 6064 6288 TO 6307 6530 TO 6549 8701 TO 8780
_SHEAR 78 TO 81 90 TO 94 101 114 121 134 141 154 161 174 178 TO 181 -
190 TO 194 216 217 242 244 TO 247 262 267 282 287 302 307 316 317 322 327 -
342 344 TO 347 351 TO 354 356 371 376 378 TO 381 391 396 401 411 416 421 -
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626 631 632 637 641 646 651 652 657 661 666 671 672 677 TO 681 686 -
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779 TO 781 791 796 801 811 TO 814 816 821 841 844 TO 848 861 864 876 TO 881 -
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_OILTANKSUPP 431 531 558 624 684 699 809 1530 1635 1649 1769 1795 1890
_DEGASSUPP 6205 6220 6327 6342 6909 6910 6938 6940 7015 7016 7044 7046
_PERIFERYSUPP 142 457 667 877 1108 1122 1285 1601 1605 1841 1845 2025 2192 -
2205 2227 2254 2455 2686 3001 3232 3348 3374 3574 3794 4094 4314
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_OTHERSUPP 34 156 288 317 948 981 1171 1272 1439 2038 2466 2475 3147 3199 -
3336 3564 4266 6430 6441 6452
_WALLTOPNODE 5 TO 8 11 12 15 17 4480 TO 4498 4579 TO 4597 4810 TO 4861 5074 -
5075 TO 5096 5106 TO 5125 5206 TO 5224 5305 TO 5323 5536 TO 5587 5796 TO 5903 -
6240 6245 6250 6362 6367 6372 6468 6473
GEOMETRY
_ALLBASEPLATE1 18 TO 22 24 TO 28 30 TO 34 36 TO 42 44 TO 48 50 TO 54 -
56 TO 62 64 TO 68 70 TO 74 76 TO 82 84 TO 88 90 TO 94 96 TO 102 104 TO 108 -
110 TO 114 116 TO 122 124 TO 128 130 TO 134 136 TO 142 144 TO 148 -
150 TO 154 156 TO 162 164 TO 168 170 TO 174 176 TO 182 184 TO 188 -
190 TO 194 196 TO 202 204 TO 208 210 TO 214 216 TO 222 224 TO 228 -
230 TO 234 236 TO 242 244 TO 248 250 TO 254 256 TO 262 264 TO 268 -
270 TO 274 276 TO 282 284 TO 288 290 TO 294 296 TO 302 304 TO 308 -
310 TO 314 316 TO 322 324 TO 328 330 TO 334 336 TO 342 344 TO 348 -
350 TO 354 356 TO 362 364 TO 368 370 TO 374 376 TO 382 384 TO 388 -
390 TO 394 396 TO 402 404 TO 408 410 TO 414 416 TO 422 424 TO 428 -
430 TO 434 436 TO 442 444 TO 448 450 TO 454 456 TO 462 464 TO 468 -
470 TO 474 476 TO 482 484 TO 488 490 TO 494 496 TO 502 504 TO 508 -
510 TO 514 516 TO 522 524 TO 528 530 TO 534 536 TO 542 544 TO 548 -
550 TO 554 556 TO 562 564 TO 568 570 TO 574 576 TO 582 584 TO 588 -
590 TO 594 596 TO 602 604 TO 608 610 TO 614 616 TO 622 624 TO 628 -
630 TO 634 636
_ALLBASEPLATE1 637 TO 642 644 TO 648 650 TO 654 656 TO 662 664 TO 668 -
670 TO 674 676 TO 682 684 TO 688 690 TO 694 696 TO 702 704 TO 708 -
710 TO 714 716 TO 722 724 TO 728 730 TO 734 736 TO 742 744 TO 748 -
750 TO 754 756 TO 762 764 TO 768 770 TO 774 776 TO 782 784 TO 788 -
790 TO 794 796 TO 802 804 TO 808 810 TO 814 816 TO 822 824 TO 828 -
830 TO 834 836 TO 842 844 TO 848 850 TO 854 856 TO 862 864 TO 868 -
870 TO 874 876 TO 882 884 TO 888 890 TO 894 896 TO 902 904 TO 908 -
910 TO 914 916 TO 922 924 TO 928 930 TO 934 936 TO 942 944 TO 948 -
950 TO 954 956 TO 962 964 TO 968 970 TO 974 976 TO 982 984 TO 988 -
990 TO 994 996 TO 1002 1004 TO 1008 1010 TO 1014 1016 TO 1022 1024 TO 1028 -
1030 TO 1034 1036 TO 1042 1044 TO 1048 1050 TO 1054 1056 TO 1062 -
1064 TO 1068 1070 TO 1074 1076 TO 1079 1081 TO 1085 1087 TO 1091 -
1093 TO 1099 1101 TO 1105 1107 TO 1111 1113 TO 1119 1121 TO 1125 -
1127 TO 1131 1133 TO 1139 1141 TO 1145 1147 TO 1151 1153 TO 1159 -
1161 TO 1165 1167 TO 1171 1173 TO 1179 1181 TO 1185 1187 TO 1191 -
1193 TO 1199 1201 TO 1205 1207 TO 1211 1213 TO 1219 1221 TO 1225 -
1227 TO 1231 1233 TO 1239 1241 TO 1245 1247 TO 1251 1253
_ALLBASEPLATE1 1254 TO 1259 1261 TO 1265 1267 TO 1271 1273 TO 1279 -
1281 TO 1285 1287 TO 1291 1293 TO 1299 1301 TO 1305 1307 TO 1311 -
1313 TO 1319 1321 TO 1325 1327 TO 1331 1333 TO 1339 1341 TO 1345 -
1347 TO 1351 1353 TO 1359 1361 TO 1365 1367 TO 1371 1373 TO 1379 -
1381 TO 1385 1387 TO 1391 1393 TO 1399 1401 TO 1405 1407 TO 1411 -
1413 TO 1419 1421 TO 1425 1427 TO 1431 1433 TO 1439 1441 TO 1445 -
1447 TO 1451 1453 TO 1459 1461 TO 1465 1467 TO 1471 1473 TO 1479 -
1481 TO 1485 1487 TO 1491 1493 TO 1499 1501 TO 1505 1507 TO 1511 -
1513 TO 1519 1521 TO 1525 1527 TO 1531 1533 TO 1539 1541 TO 1545 -
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1547 TO 1551 1553 1558 1559 1561 TO 1565 1567 TO 1571 1573 1578 1579 1581 -
1582 TO 1585 1587 TO 1591 1593 1598 1599 1601 TO 1605 1607 TO 1611 1613 1618 -
1619 1621 TO 1625 1627 TO 1631 1633 1638 1639 1641 TO 1645 1647 TO 1651 1653 -
1658 1659 1661 TO 1665 1667 TO 1671 1673 1678 1679 1681 TO 1685 1687 TO 1691 -
1693 1698 1699 1701 TO 1705 1707 TO 1711 1713 1718 1719 1721 TO 1725 1727 -
1728 TO 1731 1733 1738 1739 1741 TO 1745 1747 TO 1751 1753 TO 1759 -
1761 TO 1765 1767 TO 1771 1773 TO 1779 1781 TO 1785 1787 TO 1791 -
1793 TO 1799 1801 TO 1805 1807 TO 1811 1813 TO 1819 1821 TO 1825 -
1827 TO 1831 1833 TO 1839 1841 TO 1845 1847 TO 1851 1853 TO 1859 -
1861 TO 1865 1867 TO 1871 1873
_ALLBASEPLATE1 1874 TO 1879 1881 TO 1885 1887 TO 1891 1893 TO 1899 -
1901 TO 1905 1907 TO 1911 1913 TO 1919 1921 TO 1925 1927 TO 1931 -
1933 TO 1939 1941 TO 1945 1947 TO 1951 1953 TO 1959 1961 TO 1965 -
1967 TO 1971 1973 TO 1979 1981 TO 1985 1987 TO 1991 1993 TO 1999 -
2001 TO 2005 2007 TO 2011 2013 TO 2019 2021 TO 2025 2027 TO 2031 -
2033 TO 2039 2041 TO 2045 2047 TO 2051 2053 TO 2059 2061 TO 2065 -
2067 TO 2071 2073 TO 2079 2081 TO 2085 2087 TO 2091 2093 TO 2099 -
2101 TO 2105 2107 TO 2111 2113 TO 2119 2121 TO 2125 2127 TO 2131 -
2133 TO 2142 2144 TO 2148 2150 TO 2154 2156 TO 2162 2164 TO 2168 -
2170 TO 2174 2176 TO 2182 2184 TO 2188 2190 TO 2194 2196 TO 2202 -
2204 TO 2208 2210 TO 2214 2216 TO 2222 2224 TO 2228 2230 TO 2234 -
2236 TO 2242 2244 TO 2248 2250 TO 2254 2256 TO 2262 2264 TO 2268 -
2270 TO 2274 2276 TO 2282 2284 TO 2288 2290 TO 2294 2296 TO 2302 -
2304 TO 2308 2310 TO 2314 2316 TO 2322 2324 TO 2328 2330 TO 2334 -
2336 TO 2342 2344 TO 2348 2350 TO 2354 2356 TO 2362 2364 TO 2368 -
2370 TO 2374 2376 TO 2382 2384 TO 2388 2390 TO 2394 2396 TO 2402 -
2404 TO 2408 2410 TO 2414 2416 TO 2422 2424 TO 2428 2430 TO 2434 -
2436 TO 2442 2444 TO 2448 2450 TO 2454 2456 TO 2462 2464 TO 2468 -
2470 TO 2474 2476 TO 2482 2484 TO 2488 2490 TO 2494 2496
_ALLBASEPLATE1 2497 TO 2502 2504 TO 2508 2510 TO 2514 2516 TO 2522 -
2524 TO 2528 2530 TO 2534 2536 2537 2558 TO 2562 2564 TO 2568 2570 TO 2574 -
2576 TO 2582 2584 TO 2588 2590 TO 2594 2596 2597 2618 TO 2622 2624 TO 2628 -
2630 TO 2634 2636 TO 2642 2644 TO 2648 2650 TO 2654 2656 TO 2662 -
2664 TO 2668 2670 TO 2674 2676 TO 2682 2684 TO 2688 2690 TO 2694 -
2696 TO 2702 2704 TO 2708 2710 TO 2714 2716 2717 2738 TO 2742 2744 TO 2748 -
2750 TO 2754 2756 TO 2762 2764 TO 2768 2770 TO 2774 2776 TO 2782 -
2784 TO 2788 2790 TO 2794 2796 TO 2802 2804 TO 2808 2810 TO 2814 -
2816 TO 2822 2824 TO 2828 2830 TO 2834 2836 2837 2858 TO 2862 2864 TO 2868 -
2870 TO 2874 2876 TO 2882 2884 TO 2888 2890 TO 2894 2896 2897 2918 TO 2922 -
2924 TO 2928 2930 TO 2934 2936 TO 2942 2944 TO 2948 2950 TO 2954 -
2956 TO 2962 2964 TO 2968 2970 TO 2974 2976 TO 2982 2984 TO 2988 -
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3090 TO 3094 3096 TO 3102 3104 TO 3108 3110 TO 3114 3116 TO 3122 -
3124 TO 3128 3130 TO 3134 3136 TO 3142 3144 TO 3148 3150 TO 3154 -
3156 TO 3162 3164 TO 3168 3170 TO 3174 3176 TO 3182 3184 TO 3188 -
3190 TO 3194
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_ALLBASEPLATE1 3196 TO 3199 3201 TO 3205 3207 TO 3211 3213 TO 3219 -
3221 TO 3225 3227 TO 3231 3233 TO 3239 3241 TO 3245 3247 TO 3251 -
3253 TO 3259 3261 TO 3265 3267 TO 3271 3273 TO 3279 3281 TO 3285 -
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3321 TO 3325 3327 TO 3331 3333 TO 3339 3341 TO 3345 3347 TO 3351 -
3353 TO 3359 3361 TO 3365 3367 TO 3371 3373 TO 3379 3381 TO 3385 -
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3421 TO 3425 3427 TO 3431 3433 TO 3439 3441 TO 3445 3447 TO 3451 -
3453 TO 3459 3461 TO 3465 3467 TO 3471 3473 TO 3479 3481 TO 3485 -
3487 TO 3491 3493 TO 3499 3501 TO 3505 3507 TO 3511 3513 TO 3519 -
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3587 TO 3591 3593 TO 3597 3618 3619 3621 TO 3625 3627 TO 3631 3633 TO 3639 -
3641 TO 3645 3647 TO 3651 3653 TO 3657 3678 3679 3681 TO 3685 3687 TO 3691 -
3693 TO 3699 3701 TO 3705 3707 TO 3711 3713 TO 3719 3721 TO 3725 -
3727 TO 3731 3733 TO 3739 3741 TO 3745 3747 TO 3751 3753 TO 3759 -
3761 TO 3765 3767 TO 3771 3773 TO 3777 3798 3799 3801 TO 3805 3807 TO 3811 -
3813 TO 3819 3821 TO 3825 3827 TO 3831 3833 TO 3839 3841 TO 3845 -
3847 TO 3851 3853 TO 3859 3861
_ALLBASEPLATE1 3862 TO 3865 3867 TO 3871 3873 TO 3879 3881 TO 3885 -
3887 TO 3891 3893 TO 3897 3918 3919 3921 TO 3925 3927 TO 3931 3933 TO 3939 -
3941 TO 3945 3947 TO 3951 3953 TO 3957 3978 3979 3981 TO 3985 3987 TO 3991 -
3993 TO 3999 4001 TO 4005 4007 TO 4011 4013 TO 4019 4021 TO 4025 -
4027 TO 4031 4033 TO 4039 4041 TO 4045 4047 TO 4051 4053 TO 4059 -
4061 TO 4065 4067 TO 4071 4073 TO 4079 4081 TO 4085 4087 TO 4091 -
4093 TO 4099 4101 TO 4105 4107 TO 4111 4113 TO 4119 4121 TO 4125 -
4127 TO 4131 4133 TO 4139 4141 TO 4145 4147 TO 4151 4153 TO 4159 -
4161 TO 4165 4167 TO 4171 4173 TO 4179 4181 TO 4185 4187 TO 4191 -
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6066 TO 6211 6214 TO 6217 6220 TO 6229 6232 TO 6241 6244 TO 6247 -
6250 TO 6277 6308 TO 6453 6456 TO 6459 6462 TO 6471 6474 TO 6483 -
6486 TO 6489 6492 TO 6519 7408 TO 7417 7420 TO 7439 7442 TO 7449 -
7452 TO 7471 7474 TO 7491 7512 TO 7590 7593 TO 7612 7615 TO 7628 -
7631 TO 7650 7653 TO 7660 7663 TO 7682 7685 TO 7698 7701 TO 7720 -
7723 TO 7748 7789 TO 8292 8297 TO 8304 8309 TO 8492 8497 TO 8504 -
8509 TO 8660 8781 TO 8964 9005 9006
END GROUP DEFINITION
ELEMENT PROPERTY
* BASE SLAB
18 TO 22 24 TO 28 30 TO 34 36 TO 42 44 TO 48 50 TO 54 56 TO 62 64 TO 68 70 -
71 TO 74 76 TO 82 84 TO 88 90 TO 94 96 TO 102 104 TO 108 110 TO 114 -
116 TO 122 124 TO 128 130 TO 134 136 TO 142 144 TO 148 150 TO 154 -
156 TO 162 164 TO 168 170 TO 174 176 TO 182 184 TO 188 190 TO 194 -
196 TO 202 204 TO 208 210 TO 214 216 TO 222 224 TO 228 230 TO 234 -
236 TO 242 244 TO 248 250 TO 254 256 TO 262 264 TO 268 270 TO 274 -
276 TO 282 284 TO 288 290 TO 294 296 TO 302 304 TO 308 310 TO 314 -
316 TO 322 324 TO 328 330 TO 334 336 TO 342 344 TO 348 350 TO 354 -
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356 TO 362 364 TO 368 370 TO 374 376 TO 382 384 TO 388 390 TO 394 -
396 TO 402 404 TO 408 410 TO 414 416 TO 422 424 TO 428 430 TO 434 -
436 TO 442 444 TO 448 450 TO 454 456 TO 462 464 TO 468 470 TO 474 -
476 TO 482 484 TO 488 490 TO 494 496 TO 502 504 TO 508 510 TO 514 -
516 TO 522 524 TO 528 530 TO 534 536 TO 542 544 TO 548 550 TO 554 -
556 TO 562 564 TO 568 570 TO 574 576 TO 582 584 TO 588 590 TO 594 -
596 TO 602 604 TO 608 610 TO 614 616 TO 622 624 TO 628 630 TO 634 -
636  THICKNESS 0.6
637 TO 642 644 TO 648 650 TO 654 656 TO 662 664 TO 668 670 TO 674 676 TO 682 -
684 TO 688 690 TO 694 696 TO 702 704 TO 708 710 TO 714 716 TO 722 -
724 TO 728 730 TO 734 736 TO 742 744 TO 748 750 TO 754 756 TO 762 -
764 TO 768 770 TO 774 776 TO 782 784 TO 788 790 TO 794 796 TO 802 -
804 TO 808 810 TO 814 816 TO 822 824 TO 828 830 TO 834 836 TO 842 -
844 TO 848 850 TO 854 856 TO 862 864 TO 868 870 TO 874 876 TO 882 -
884 TO 888 890 TO 894 896 TO 902 904 TO 908 910 TO 914 916 TO 922 -
924 TO 928 930 TO 934 936 TO 942 944 TO 948 950 TO 954 956 TO 962 -
964 TO 968 970 TO 974 976 TO 982 984 TO 988 990 TO 994 996 TO 1002 -
1004 TO 1008 1010 TO 1014 1016 TO 1022 1024 TO 1028 1030 TO 1034 -
1036 TO 1042 1044 TO 1048 1050 TO 1054 1056 TO 1062 1064 TO 1068 -
1070 TO 1074 1076 TO 1079 1081 TO 1085 1087 TO 1091 1093 TO 1099 -
1101 TO 1105 1107 TO 1111 1113 TO 1119 1121 TO 1125 1127 TO 1131 -
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1167 TO 1171 1173 TO 1179 1181 TO 1185 1187 TO 1191 1193 TO 1199 -
1201 TO 1205 1207 TO 1211 1213 TO 1219 1221 TO 1225 1227 TO 1231 -
1233 TO 1239 1241 TO 1245 1247 TO 1251 1253 THICKNESS 0.6
1254 TO 1259 1261 TO 1265 1267 TO 1271 1273 TO 1279 1281 TO 1285 1287 TO 1291 -
1293 TO 1299 1301 TO 1305 1307 TO 1311 1313 TO 1319 1321 TO 1325 -
1327 TO 1331 1333 TO 1339 1341 TO 1345 1347 TO 1351 1353 TO 1359 -
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1461 TO 1465 1467 TO 1471 1473 TO 1479 1481 TO 1485 1487 TO 1491 -
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1561 TO 1565 1567 TO 1571 1573 1578 1579 1581 TO 1585 1587 TO 1591 1593 1598 -
1599 1601 TO 1605 1607 TO 1611 1613 1618 1619 1621 TO 1625 1627 TO 1631 1633 -
1638 1639 1641 TO 1645 1647 TO 1651 1653 1658 1659 1661 TO 1665 1667 TO 1671 -
1673 1678 1679 1681 TO 1685 1687 TO 1691 1693 1698 1699 1701 TO 1705 1707 -
7789 TO 8126 THICKNESS 0.6
6657 TO 6696 THICKNESS 0.6
1708 TO 1711 1713 1718 1719 1721 TO 1725 1727 TO 1731 1733 1738 1739 1741 -
1742 TO 1745 1747 TO 1751 1753 TO 1759 1761 TO 1765 1767 TO 1771 1773 TO 1779 -
1781 TO 1785 1787 TO 1791 1793 TO 1799 1801 TO 1805 1807 TO 1811 -
1813 TO 1819 1821 TO 1825 1827 TO 1831 1833 TO 1839 1841 TO 1845 -
1847 TO 1851 1853 TO 1859 1861 TO 1865 1867 TO 1871 1873 TO 1879 -
1881 TO 1885 1887 TO 1891 1893 TO 1899 1901 TO 1905 1907 TO 1911 -
1913 TO 1919 1921 TO 1925 1927 TO 1931 1933 TO 1939 1941 TO 1945 -
1947 TO 1951 1953 TO 1959 1961 TO 1965 1967 TO 1971 1973 TO 1979 -
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1981 TO 1985 1987 TO 1991 1993 TO 1999 2001 TO 2005 2007 TO 2011 -
2013 TO 2019 2021 TO 2025 2027 TO 2031 2033 TO 2039 2041 TO 2045 -
2047 TO 2051 2053 TO 2059 2061 TO 2065 2067 TO 2071 2073 TO 2079 -
2081 TO 2085 2087 TO 2091 2093 TO 2099 2101 TO 2105 2107 TO 2111 -
2113 TO 2119 2121 TO 2125 2127 TO 2131 2133 TO 2142 2144 TO 2148 -
2150 TO 2154 2156 TO 2162 2164 TO 2168 2170 TO 2174 2176 TO 2182 -
2184 TO 2188 2190 TO 2194 2196 TO 2202 2204 TO 2208 2210 TO 2214 -
2216 TO 2222 2224 TO 2228 2230 TO 2234 2236 TO 2242 2244 TO 2248 -
2250 TO 2254 2256 TO 2262 2264 TO 2268 2270 TO 2274 2276 TO 2282 -
2284 TO 2288 2290 TO 2294 2296 TO 2302 2304 TO 2308 2310 TO 2314 -
2316 TO 2322 2324 TO 2328 2330 THICKNESS 0.6
2331 TO 2334 2336 TO 2342 2344 TO 2348 2350 TO 2354 2356 TO 2362 2364 TO 2368 -
2370 TO 2374 2376 TO 2382 2384 TO 2388 2390 TO 2394 2396 TO 2402 -
2404 TO 2408 2410 TO 2414 2416 TO 2422 2424 TO 2428 2430 TO 2434 -
2436 TO 2442 2444 TO 2448 2450 TO 2454 2456 TO 2462 2464 TO 2468 -
2470 TO 2474 2476 TO 2482 2484 TO 2488 2490 TO 2494 2496 TO 2502 -
2504 TO 2508 2510 TO 2514 2516 TO 2522 2524 TO 2528 2530 TO 2534 2536 2537 -
2558 TO 2562 2564 TO 2568 2570 TO 2574 2576 TO 2582 2584 TO 2588 -
2590 TO 2594 2596 2597 2618 TO 2622 2624 TO 2628 2630 TO 2634 2636 TO 2642 -
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2884 TO 2888 2890 TO 2894 2896 2897 2918 TO 2922 2924 TO 2928 2930 TO 2934 -
2936 TO 2942 2944 TO 2948 2950 TO 2954 2956 TO 2962 2964 TO 2968 -
2970 TO 2974 2976 TO 2982 2984 TO 2988 2990 TO 2994 2996 TO 3002 -
3004 TO 3008 3010 TO 3014 3016 TO 3022 3024 TO 3028 THICKNESS 0.6
3030 TO 3034 3036 TO 3042 3044 TO 3048 3050 TO 3054 3056 TO 3062 3064 TO 3068 -
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3333 TO 3339 3341 TO 3345 3347 TO 3351 3353 TO 3359 3361 TO 3365 -
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3433 TO 3439 3441 TO 3445 3447 TO 3451 3453 TO 3459 3461 TO 3465 -
3467 TO 3471 3473 TO 3479 3481 TO 3485 3487 TO 3491 3493 TO 3499 -
3501 TO 3505 3507 TO 3511 3513 TO 3519 3521 TO 3525 3527 7581 TO 7590 7593 -
7594 TO 7612 7615 TO 7628 7631 TO 7650 7653 TO 7656 8127 TO 8292 8297 TO 8304 -
8309 TO 8478 8629 TO 8644 8781 TO 8848 8933 TO 8948 THICKNESS 0.6
7408 TO 7417 7420 TO 7439 7442 TO 7445 8613 TO 8620 THICKNESS 0.6
3528 TO 3531 3533 TO 3539 3541 TO 3545 3547 TO 3551 3553 TO 3559 3561 TO 3565 -
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3567 TO 3571 3573 TO 3579 3581 TO 3585 3587 TO 3591 3593 TO 3597 3618 3619 -
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3653 TO 3657 3678 3679 3681 TO 3685 3687 TO 3691 3693 TO 3699 3701 TO 3705 -
3707 TO 3711 3713 TO 3719 3721 TO 3725 3727 TO 3731 3733 TO 3739 -
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3773 TO 3777 3798 3799 3801 TO 3805 3807 TO 3811 3813 TO 3819 3821 TO 3825 -
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3947 TO 3951 3953 TO 3957 3978 3979 3981 TO 3985 3987 TO 3991 3993 TO 3999 -
4001 TO 4005 4007 TO 4011 4013 TO 4019 4021 TO 4025 4027 TO 4031 -
4033 TO 4039 4041 TO 4045 4047 TO 4051 4053 TO 4059 4061 TO 4065 -
4067 TO 4071 4073 TO 4079 4081 TO 4085 4087 TO 4091 4093 TO 4099 -
4101 TO 4105 4107 TO 4111 4113 TO 4119 4121 TO 4125 4127 TO 4131 -
4133 TO 4139 4141 TO 4145 4147 TO 4151 4153 TO 4159 4161 TO 4165 -
4167 TO 4171 4173 TO 4179 4181 TO 4185 4187 TO 4191 4193 TO 4199 -
4201 TO 4205 4207 TO 4211 4213 TO 4219 4221 TO 4225 THICKNESS 0.6
4227 TO 4231 4233 TO 4239 4241 TO 4245 4247 TO 4251 4253 TO 4257 6066 TO 6211 -
6214 TO 6217 6220 TO 6229 6232 TO 6241 6244 TO 6247 6250 TO 6277 -
6308 TO 6453 6456 TO 6459 6462 TO 6471 6474 TO 6483 6486 TO 6489 -
6492 TO 6519 7446 TO 7449 7452 TO 7471 7474 TO 7491 7657 TO 7660 -
7663 TO 7682 7685 TO 7698 7701 TO 7720 7723 TO 7748 8479 TO 8492 -
8497 TO 8504 8509 TO 8612 8621 TO 8628 8645 TO 8660 8849 TO 8932 -
8949 TO 8964 THICKNESS 0.6
* WALLS
4258 TO 4262 4264 TO 4268 4270 TO 4274 4276 TO 4282 4284 TO 4288 4290 TO 4294 -
4296 TO 4302 4304 TO 4308 4310 TO 4314 4316 TO 4322 4324 TO 4328 -
4330 TO 4334 4336 TO 4342 4344 TO 4348 4350 TO 4354 4356 TO 4359 -
4361 TO 4365 4367 TO 4371 4373 TO 4379 4381 TO 4385 4387 TO 4391 -
4393 TO 4399 4401 TO 4405 4407 TO 4411 4413 TO 4419 4421 TO 4425 -
4427 TO 4431 4433 TO 4439 4441 TO 4445 4447 TO 4451 4453 TO 4477 4479 4480 -
4482 TO 4486 4488 TO 4492 4494 4495 4497 TO 4530 4532 4533 4535 TO 4539 4541 -
4542 TO 4545 4547 4548 4550 TO 4583 4585 4586 4588 TO 4592 4594 TO 4598 4600 -
4601 4603 TO 4636 4638 4639 4641 TO 4645 4647 TO 4651 4653 4654 4656 TO 4689 -
4691 4692 4694 TO 4698 4700 TO 4704 4706 4707 4709 TO 4745 4756 TO 4798 4809 -
4810 TO 4851 4862 TO 4904 4915 TO 4957 4968 TO 4992 4994 TO 4998 5000 TO 5004 -
5006 TO 5012 5014 TO 5018 5020 TO 5024 5026 TO 5032 5034 TO 5038 -
5040 TO 5044 5046 TO 5052 5054 TO 5058 5060 TO 5064 5066 TO 5072 -
5074 TO 5078 5080 TO 5084 5086 TO 5089 5091 TO 5095 5097 TO 5101 -
5103 TO 5109 5111 TO 5115 5117 TO 5121 5123 TO 5129 5131 TO 5135 -
5137 TO 5141 5143 TO 5149 5151 TO 5155 5157 TO 5161 5163 TO 5169 -
5171 TO 5175 5177 TO 5181 5183 TO 5466 5468 5469 5471 TO 5475 5477 TO 5481 -
5483 5484 5486 TO 5519 5521 5522 5524 THICKNESS 0.25
5525 TO 5528 5530 TO 5534 5536 5537 5539 TO 5572 5574 5575 5577 TO 5581 5583 -
5584 TO 5587 5589 5590 5592 TO 5625 5627 5628 5630 TO 5634 5636 TO 5640 5642 -
5643 5645 TO 5678 5680 5681 5683 TO 5687 5689 TO 5693 5695 5696 5698 TO 5717 -
5775 TO 5794 5800 TO 5824 5830 TO 5854 5860 TO 5879 5885 TO 5909 -
5915 TO 5939 5945 TO 6064 6278 TO 6307 6520 TO 6549 7492 TO 7511 -
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7749 TO 7788 8661 TO 8780 8965 TO 9004 THICKNESS 0.25
DEFINE MATERIAL START
ISOTROPIC CONCRETE
E 2.17185e+07
POISSON 0.17
DENSITY 25
ALPHA 5.5e-06
DAMP 0.05
TYPE CONCRETE
STRENGTH FCU 27578.9
ISOTROPIC ZEROSTEEL
E 100
POISSON 0.3
DENSITY 0.0001
ALPHA 1.2e-05
DAMP 0.03
TYPE STEEL
STRENGTH FY 235000 FU 360000 RY 1.5 RT 1.2
END DEFINE MATERIAL
MEMBER PROPERTY
7512 TO 7580 9005 9006 PRIS ROUND STA 0.45 END 0.45 THI 0.01
CONSTANTS
MATERIAL CONCRETE MEMB 18 TO 22 24 TO 28 30 TO 34 36 TO 42 44 TO 48 -
50 TO 54 56 TO 62 64 TO 68 70 TO 74 76 TO 82 84 TO 88 90 TO 94 96 TO 102 -
104 TO 108 110 TO 114 116 TO 122 124 TO 128 130 TO 134 136 TO 142 -
144 TO 148 150 TO 154 156 TO 162 164 TO 168 170 TO 174 176 TO 182 -
184 TO 188 190 TO 194 196 TO 202 204 TO 208 210 TO 214 216 TO 222 -
224 TO 228 230 TO 234 236 TO 242 244 TO 248 250 TO 254 256 TO 262 -
264 TO 268 270 TO 274 276 TO 282 284 TO 288 290 TO 294 296 TO 302 -
304 TO 308 310 TO 314 316 TO 322 324 TO 328 330 TO 334 336 TO 342 -
344 TO 348 350 TO 354 356 TO 362 364 TO 368 370 TO 374 376 TO 382 -
384 TO 388 390 TO 394 396 TO 402 404 TO 408 410 TO 414 416 TO 422 -
424 TO 428 430 TO 434 436 TO 442 444 TO 448 450 TO 454 456 TO 462 -
464 TO 468 470 TO 474 476 TO 482 484 TO 488 490 TO 494 496 TO 502 -
504 TO 508 510 TO 514 516 TO 522 524 TO 528 530 TO 534 536 TO 542 -
544 TO 548 550 TO 554 556 TO 562 564 TO 568 570 TO 574 576 TO 582 -
584 TO 588 590 TO 594 596 TO 602 604 TO 608 610 TO 614 616 TO 622 -
624 TO 628 630 TO 634 636
MATERIAL CONCRETE MEMB 637 TO 642 644 TO 648 650 TO 654 656 TO 662 664 TO 668 -
670 TO 674 676 TO 682 684 TO 688 690 TO 694 696 TO 702 704 TO 708 -
710 TO 714 716 TO 722 724 TO 728 730 TO 734 736 TO 742 744 TO 748 -
750 TO 754 756 TO 762 764 TO 768 770 TO 774 776 TO 782 784 TO 788 -
790 TO 794 796 TO 802 804 TO 808 810 TO 814 816 TO 822 824 TO 828 -
830 TO 834 836 TO 842 844 TO 848 850 TO 854 856 TO 862 864 TO 868 -
870 TO 874 876 TO 882 884 TO 888 890 TO 894 896 TO 902 904 TO 908 -
910 TO 914 916 TO 922 924 TO 928 930 TO 934 936 TO 942 944 TO 948 -
950 TO 954 956 TO 962 964 TO 968 970 TO 974 976 TO 982 984 TO 988 -
990 TO 994 996 TO 1002 1004 TO 1008 1010 TO 1014 1016 TO 1022 1024 TO 1028 -
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1030 TO 1034 1036 TO 1042 1044 TO 1048 1050 TO 1054 1056 TO 1062 -
1064 TO 1068 1070 TO 1074 1076 TO 1079 1081 TO 1085 1087 TO 1091 -
1093 TO 1099 1101 TO 1105 1107 TO 1111 1113 TO 1119 1121 TO 1125 -
1127 TO 1131 1133 TO 1139 1141 TO 1145 1147 TO 1151 1153 TO 1159 -
1161 TO 1165 1167 TO 1171 1173 TO 1179 1181 TO 1185 1187 TO 1191 -
1193 TO 1199 1201 TO 1205 1207 TO 1211 1213 TO 1219 1221 TO 1225 -
1227 TO 1231 1233 TO 1239 1241 TO 1245 1247 TO 1251 1253
MATERIAL CONCRETE MEMB 1254 TO 1259 1261 TO 1265 1267 TO 1271 1273 TO 1279 -
1281 TO 1285 1287 TO 1291 1293 TO 1299 1301 TO 1305 1307 TO 1311 -
1313 TO 1319 1321 TO 1325 1327 TO 1331 1333 TO 1339 1341 TO 1345 -
1347 TO 1351 1353 TO 1359 1361 TO 1365 1367 TO 1371 1373 TO 1379 -
1381 TO 1385 1387 TO 1391 1393 TO 1399 1401 TO 1405 1407 TO 1411 -
1413 TO 1419 1421 TO 1425 1427 TO 1431 1433 TO 1439 1441 TO 1445 -
1447 TO 1451 1453 TO 1459 1461 TO 1465 1467 TO 1471 1473 TO 1479 -
1481 TO 1485 1487 TO 1491 1493 TO 1499 1501 TO 1505 1507 TO 1511 -
1513 TO 1519 1521 TO 1525 1527 TO 1531 1533 TO 1539 1541 TO 1545 -
1547 TO 1551 1553 1558 1559 1561 TO 1565 1567 TO 1571 1573 1578 1579 1581 -
1582 TO 1585 1587 TO 1591 1593 1598 1599 1601 TO 1605 1607 TO 1611 1613 1618 -
1619 1621 TO 1625 1627 TO 1631 1633 1638 1639 1641 TO 1645 1647 TO 1651 1653 -
1658 1659 1661 TO 1665 1667 TO 1671 1673 1678 1679 1681 TO 1685 1687 TO 1691 -
1693 1698 1699 1701 TO 1705 1707 TO 1711 1713 1718 1719 1721 TO 1725 1727 -
1728 TO 1731 1733 1738 1739 1741 TO 1745 1747 TO 1751 1753 TO 1759 -
1761 TO 1765 1767 TO 1771 1773 TO 1779 1781 TO 1785 1787 TO 1791 -
1793 TO 1799 1801 TO 1805 1807 TO 1811 1813 TO 1819 1821 TO 1825 -
1827 TO 1831 1833 TO 1839 1841 TO 1845 1847 TO 1851 1853 TO 1859 -
1861 TO 1865 1867 TO 1871 1873
MATERIAL CONCRETE MEMB 1874 TO 1879 1881 TO 1885 1887 TO 1891 1893 TO 1899 -
1901 TO 1905 1907 TO 1911 1913 TO 1919 1921 TO 1925 1927 TO 1931 -
1933 TO 1939 1941 TO 1945 1947 TO 1951 1953 TO 1959 1961 TO 1965 -
1967 TO 1971 1973 TO 1979 1981 TO 1985 1987 TO 1991 1993 TO 1999 -
2001 TO 2005 2007 TO 2011 2013 TO 2019 2021 TO 2025 2027 TO 2031 -
2033 TO 2039 2041 TO 2045 2047 TO 2051 2053 TO 2059 2061 TO 2065 -
2067 TO 2071 2073 TO 2079 2081 TO 2085 2087 TO 2091 2093 TO 2099 -
2101 TO 2105 2107 TO 2111 2113 TO 2119 2121 TO 2125 2127 TO 2131 -
2133 TO 2142 2144 TO 2148 2150 TO 2154 2156 TO 2162 2164 TO 2168 -
2170 TO 2174 2176 TO 2182 2184 TO 2188 2190 TO 2194 2196 TO 2202 -
2204 TO 2208 2210 TO 2214 2216 TO 2222 2224 TO 2228 2230 TO 2234 -
2236 TO 2242 2244 TO 2248 2250 TO 2254 2256 TO 2262 2264 TO 2268 -
2270 TO 2274 2276 TO 2282 2284 TO 2288 2290 TO 2294 2296 TO 2302 -
2304 TO 2308 2310 TO 2314 2316 TO 2322 2324 TO 2328 2330 TO 2334 -
2336 TO 2342 2344 TO 2348 2350 TO 2354 2356 TO 2362 2364 TO 2368 -
2370 TO 2374 2376 TO 2382 2384 TO 2388 2390 TO 2394 2396 TO 2402 -
2404 TO 2408 2410 TO 2414 2416 TO 2422 2424 TO 2428 2430 TO 2434 -
2436 TO 2442 2444 TO 2448 2450 TO 2454 2456 TO 2462 2464 TO 2468 -
2470 TO 2474 2476 TO 2482 2484 TO 2488 2490 TO 2494 2496
MATERIAL CONCRETE MEMB 2497 TO 2502 2504 TO 2508 2510 TO 2514 2516 TO 2522 -
2524 TO 2528 2530 TO 2534 2536 2537 2558 TO 2562 2564 TO 2568 2570 TO 2574 -
2576 TO 2582 2584 TO 2588 2590 TO 2594 2596 2597 2618 TO 2622 2624 TO 2628 -
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2630 TO 2634 2636 TO 2642 2644 TO 2648 2650 TO 2654 2656 TO 2662 -
2664 TO 2668 2670 TO 2674 2676 TO 2682 2684 TO 2688 2690 TO 2694 -
2696 TO 2702 2704 TO 2708 2710 TO 2714 2716 2717 2738 TO 2742 2744 TO 2748 -
2750 TO 2754 2756 TO 2762 2764 TO 2768 2770 TO 2774 2776 TO 2782 -
2784 TO 2788 2790 TO 2794 2796 TO 2802 2804 TO 2808 2810 TO 2814 -
2816 TO 2822 2824 TO 2828 2830 TO 2834 2836 2837 2858 TO 2862 2864 TO 2868 -
2870 TO 2874 2876 TO 2882 2884 TO 2888 2890 TO 2894 2896 2897 2918 TO 2922 -
2924 TO 2928 2930 TO 2934 2936 TO 2942 2944 TO 2948 2950 TO 2954 -
2956 TO 2962 2964 TO 2968 2970 TO 2974 2976 TO 2982 2984 TO 2988 -
2990 TO 2994 2996 TO 3002 3004 TO 3008 3010 TO 3014 3016 TO 3022 -
3024 TO 3028 3030 TO 3034 3036 TO 3042 3044 TO 3048 3050 TO 3054 -
3056 TO 3062 3064 TO 3068 3070 TO 3074 3076 TO 3082 3084 TO 3088 -
3090 TO 3094 3096 TO 3102 3104 TO 3108 3110 TO 3114 3116 TO 3122 -
3124 TO 3128 3130 TO 3134 3136 TO 3142 3144 TO 3148 3150 TO 3154 -
3156 TO 3162 3164 TO 3168 3170 TO 3174 3176 TO 3182 3184 TO 3188 -
3190 TO 3194
MATERIAL CONCRETE MEMB 3196 TO 3199 3201 TO 3205 3207 TO 3211 3213 TO 3219 -
3221 TO 3225 3227 TO 3231 3233 TO 3239 3241 TO 3245 3247 TO 3251 -
3253 TO 3259 3261 TO 3265 3267 TO 3271 3273 TO 3279 3281 TO 3285 -
3287 TO 3291 3293 TO 3299 3301 TO 3305 3307 TO 3311 3313 TO 3319 -
3321 TO 3325 3327 TO 3331 3333 TO 3339 3341 TO 3345 3347 TO 3351 -
3353 TO 3359 3361 TO 3365 3367 TO 3371 3373 TO 3379 3381 TO 3385 -
3387 TO 3391 3393 TO 3399 3401 TO 3405 3407 TO 3411 3413 TO 3419 -
3421 TO 3425 3427 TO 3431 3433 TO 3439 3441 TO 3445 3447 TO 3451 -
3453 TO 3459 3461 TO 3465 3467 TO 3471 3473 TO 3479 3481 TO 3485 -
3487 TO 3491 3493 TO 3499 3501 TO 3505 3507 TO 3511 3513 TO 3519 -
3521 TO 3525 3527 TO 3531 3533 TO 3539 3541 TO 3545 3547 TO 3551 -
3553 TO 3559 3561 TO 3565 3567 TO 3571 3573 TO 3579 3581 TO 3585 -
3587 TO 3591 3593 TO 3597 3618 3619 3621 TO 3625 3627 TO 3631 3633 TO 3639 -
3641 TO 3645 3647 TO 3651 3653 TO 3657 3678 3679 3681 TO 3685 3687 TO 3691 -
3693 TO 3699 3701 TO 3705 3707 TO 3711 3713 TO 3719 3721 TO 3725 -
3727 TO 3731 3733 TO 3739 3741 TO 3745 3747 TO 3751 3753 TO 3759 -
3761 TO 3765 3767 TO 3771 3773 TO 3777 3798 3799 3801 TO 3805 3807 TO 3811 -
3813 TO 3819 3821 TO 3825 3827 TO 3831 3833 TO 3839 3841 TO 3845 -
3847 TO 3851 3853 TO 3859 3861
MATERIAL CONCRETE MEMB 3862 TO 3865 3867 TO 3871 3873 TO 3879 3881 TO 3885 -
3887 TO 3891 3893 TO 3897 3918 3919 3921 TO 3925 3927 TO 3931 3933 TO 3939 -
3941 TO 3945 3947 TO 3951 3953 TO 3957 3978 3979 3981 TO 3985 3987 TO 3991 -
3993 TO 3999 4001 TO 4005 4007 TO 4011 4013 TO 4019 4021 TO 4025 -
4027 TO 4031 4033 TO 4039 4041 TO 4045 4047 TO 4051 4053 TO 4059 -
4061 TO 4065 4067 TO 4071 4073 TO 4079 4081 TO 4085 4087 TO 4091 -
4093 TO 4099 4101 TO 4105 4107 TO 4111 4113 TO 4119 4121 TO 4125 -
4127 TO 4131 4133 TO 4139 4141 TO 4145 4147 TO 4151 4153 TO 4159 -
4161 TO 4165 4167 TO 4171 4173 TO 4179 4181 TO 4185 4187 TO 4191 -
4193 TO 4199 4201 TO 4205 4207 TO 4211 4213 TO 4219 4221 TO 4225 -
4227 TO 4231 4233 TO 4239 4241 TO 4245 4247 TO 4251 4253 TO 4262 -
4264 TO 4268 4270 TO 4274 4276 TO 4282 4284 TO 4288 4290 TO 4294 -
4296 TO 4302 4304 TO 4308 4310 TO 4314 4316 TO 4322 4324 TO 4328 -
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4330 TO 4334 4336 TO 4342 4344 TO 4348 4350 TO 4354 4356 TO 4359 -
4361 TO 4365 4367 TO 4371 4373 TO 4379 4381 TO 4385 4387 TO 4391 -
4393 TO 4399 4401 TO 4405 4407 TO 4411 4413 TO 4419 4421 TO 4425 -
4427 TO 4431 4433 TO 4439 4441 TO 4445 4447 TO 4451 4453 TO 4477 4479 4480 -
4482 TO 4486 4488 TO 4492 4494 4495 4497 TO 4530 4532 4533 4535 TO 4539 4541 -
4542 TO 4545 4547 4548 4550
MATERIAL CONCRETE MEMB 4551 TO 4583 4585 4586 4588 TO 4592 4594 TO 4598 4600 -
4601 4603 TO 4636 4638 4639 4641 TO 4645 4647 TO 4651 4653 4654 4656 TO 4689 -
4691 4692 4694 TO 4698 4700 TO 4704 4706 4707 4709 TO 4745 4756 TO 4798 4809 -
4810 TO 4851 4862 TO 4904 4915 TO 4957 4968 TO 4992 4994 TO 4998 5000 TO 5004 -
5006 TO 5012 5014 TO 5018 5020 TO 5024 5026 TO 5032 5034 TO 5038 -
5040 TO 5044 5046 TO 5052 5054 TO 5058 5060 TO 5064 5066 TO 5072 -
5074 TO 5078 5080 TO 5084 5086 TO 5089 5091 TO 5095 5097 TO 5101 -
5103 TO 5109 5111 TO 5115 5117 TO 5121 5123 TO 5129 5131 TO 5135 -
5137 TO 5141 5143 TO 5149 5151 TO 5155 5157 TO 5161 5163 TO 5169 -
5171 TO 5175 5177 TO 5181 5183 TO 5466 5468 5469 5471 TO 5475 5477 TO 5481 -
5483 5484 5486 TO 5519 5521 5522 5524 TO 5528 5530 TO 5534 5536 5537 5539 -
5540 TO 5572 5574 5575 5577 TO 5581 5583 TO 5587 5589 5590 5592 TO 5625 5627 -
5628 5630 TO 5634 5636 TO 5640 5642 5643 5645 TO 5678 5680 5681 5683 TO 5687 -
5689 TO 5693 5695 5696 5698 TO 5717 5775 TO 5794 5800 TO 5824 5830 TO 5854 -
5860 TO 5879 5885 TO 5909 5915 TO 5939 5945 TO 6064 6066 TO 6211 -
6214 TO 6217 6220 TO 6229 6232 TO 6241 6244 TO 6247 6250 TO 6453 -
6456 TO 6459 6462 TO 6471 6474 TO 6483 6486 TO 6489 6492 TO 6549 -
6657 TO 6696 7408 TO 7417 7420 TO 7439 7442 TO 7449 7452
MATERIAL CONCRETE MEMB 7453 TO 7471 7474 TO 7511 7581 TO 7590 7593 TO 7612 -
7615 TO 7628 7631 TO 7650 7653 TO 7660 7663 TO 7682 7685 TO 7698 -
7701 TO 7720 7723 TO 8292 8297 TO 8304 8309 TO 8492 8497 TO 8504 -
8509 TO 9004
MATERIAL ZEROSTEEL MEMB 7512 TO 7580 9005 9006
SUPPORTS
* 450 DIA UNDER DEGASSER TANKS
6205 6220 6327 6342 6909 6910 6938 6940 7015 7016 7044 -
7046 FIXED BUT MX MY MZ KFX 4900 KFY 60000 KFZ 4900
* 450 DIA UNDER BLANKETING OIL TANK
431 531 558 624 684 699 809 1530 1635 1649 1769 1795 -
1890 FIXED BUT MX MY MZ KFX 4900 KFY 60000 KFZ 4900
* 450 DIA UNDER PERIPHERY
142 457 667 877 1108 1122 1285 1601 1605 1841 1845 2025 2192 2205 2227 2254 -
2455 2686 3001 3232 3348 3374 3574 3794 4094 -
4314 FIXED BUT MX MY MZ KFX 4900 KFY 60000 KFZ 4900
* 450 DIA UNDER OTHER
34 156 288 317 948 981 1171 1272 1439 2038 2466 2475 3147 3199 3336 3564 4266 -
6430 6441 6452 FIXED BUT MX MY MZ KFX 4900 KFY 60000 KFZ 4900
*
*******************************************************************************
LOAD 1 (D1) STRUCTURE SELFWEIGHT (GSW)
*******************************************************************************
SELFWEIGHT Y -1
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*************************************************************************
LOAD 2 (D2) STRUCTURE DEADLOADS (GDL)
*************************************************************************
*
*
* DEGASSER PEDESTAL DEAD LOAD
* HEIGHT OF PEDESTAL ABOVE TOC OF BASE SLAB = 3.150 M
* DENSITY OF CONCRETE                       = 25 KN/M2
* UNIFORM PRESSURE                          = 79 KN/M2 (3.15 X 25)
ELEMENT LOAD
2564 TO 2568 2570 TO 2574 2584 TO 2588 2590 TO 2594 2864 TO 2868 2870 TO 2874 -
2884 TO 2888 2890 TO 2894 3621 TO 3625 3627 TO 3631 3641 TO 3645 -
3647 TO 3651 3921 TO 3925 3927 TO 3931 3941 TO 3945 3947 TO 3951 -
6214 TO 6217 6244 TO 6247 6456 TO 6459 6486 TO 6489 8297 TO 8304 -
8349 TO 8356 8497 TO 8504 8549 TO 8556 PR GY -79
*
*
* BLANKETING OIL TANK PEDESTAL DEAD LOAD
* HEIGHT OF PEDESTAL ABOVE TOC OF BASE SLAB = 0.200 M
* DENSITY OF CONCRETE                       = 25 KN/M2
* UNIFORM PRESSURE                          = 5 KN/M2 (0.2 X 25)
ELEMENT LOAD
393 394 396 397 412 TO 414 416 417 431 TO 434 436 437 450 TO 454 456 457 470 -
471 TO 474 476 477 488 490 TO 494 496 497 508 510 TO 514 516 517 528 -
530 TO 534 536 537 548 550 TO 554 556 557 568 570 TO 574 576 577 588 590 -
591 TO 594 596 597 608 610 TO 614 616 617 628 630 TO 634 636 637 648 -
650 TO 654 656 657 668 670 TO 674 676 677 690 TO 694 696 697 710 TO 714 716 -
717 731 TO 734 736 737 752 TO 754 756 757 773 774 776 777 1438 1439 1441 -
1442 1458 1459 1461 TO 1463 1478 1479 1481 TO 1484 1498 1499 1501 TO 1505 -
1518 1519 1521 TO 1525 1538 1539 1541 TO 1545 1547 1558 1559 1561 TO 1565 -
1567 1578 1579 1581 TO 1585 1587 1598 1599 1601 TO 1605 1607 1618 1619 1621 -
1622 TO 1625 1627 1638 1639 1641 TO 1645 1647 1658 1659 1661 TO 1665 1667 -
1678 1679 1681 TO 1685 1687 1698 1699 1701 TO 1705 1707 1718 1719 -
1721 TO 1725 1727 1738 1739 1741 TO 1745 1758 1759 1761 TO 1765 1778 1779 -
1781 TO 1784 1798 1799 1801 TO 1803 1818 1819 1821 1822 6110 TO 6133 6352 -
6353 TO 6375 7863 7864 7867 7868 7871 7872 7875 7876 7879 7880 7883 7884 7887 -
7888 7891 7892 7895 7896 7899 7900 7903 7904 7907 7908 7911 7912 7915 7916 -
7919 7920 7923 7924 7927 7928 7931 7932 7935 7936 7939 7940 8073 8074 8077 -
8078 8081 8082 8085 8086 8089 8090 8093 8094 8097 8098 8101 8102 8105 8106 -
8109 PR GY -5
8110 8113 8114 8117 8118 8121 8122 8125 8126 8129 8130 8133 8134 8137 8138 -
8141 8142 8145 8146 8149 8150 PR GY -5
*
*
*************************************************************************
LOAD 3 (DE-1) PIPING EQUIPMENT DEAD LOAD (GEM-1) DEGASSER EMPTY LOAD
*************************************************************************
*
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*
* EMPTY WEIGHT OF EACH DEGASSER = 170 KN
* LOAD SHARED BY EACH PEDESTAL = 85 KN
* LENGTH = 5.2 M (AS PER STAAD)
* WIDTH = 0.8 M
* UNIFORM PRESSURE = 20.45 KN/M2 (85/5.2/0.8)
ELEMENT LOAD
2564 TO 2568 2570 TO 2574 2584 TO 2588 2590 TO 2594 2864 TO 2868 2870 TO 2874 -
2884 TO 2888 2890 TO 2894 3621 TO 3625 3627 TO 3631 3641 TO 3645 -
3647 TO 3651 3921 TO 3925 3927 TO 3931 3941 TO 3945 3947 TO 3951 -
6214 TO 6217 6244 TO 6247 6456 TO 6459 6486 TO 6489 8297 TO 8304 -
8349 TO 8356 8497 TO 8504 8549 TO 8556 PR GY -20.45
*
*
*********************************************************************************
LOAD 4 (DE-2) PIPING EQUIPMENT DEAD LOAD (GEM-2) BLANKETING OIL TANK EMPTY LOAD
*********************************************************************************
*
*
* TANK EMPTY LOAD = 200 KN
* AREA OF BASE    = 54.4 M2
* PRESSURE = 3.7 KN/M2
ELEMENT LOAD
393 394 396 397 412 TO 414 416 417 431 TO 434 436 437 450 TO 454 456 457 470 -
471 TO 474 476 477 488 490 TO 494 496 497 508 510 TO 514 516 517 528 -
530 TO 534 536 537 548 550 TO 554 556 557 568 570 TO 574 576 577 588 590 -
591 TO 594 596 597 608 610 TO 614 616 617 628 630 TO 634 636 637 648 -
650 TO 654 656 657 668 670 TO 674 676 677 690 TO 694 696 697 710 TO 714 716 -
717 731 TO 734 736 737 752 TO 754 756 757 773 774 776 777 1438 1439 1441 -
1442 1458 1459 1461 TO 1463 1478 1479 1481 TO 1484 1498 1499 1501 TO 1505 -
1518 1519 1521 TO 1525 1538 1539 1541 TO 1545 1547 1558 1559 1561 TO 1565 -
1567 1578 1579 1581 TO 1585 1587 1598 1599 1601 TO 1605 1607 1618 1619 1621 -
1622 TO 1625 1627 1638 1639 1641 TO 1645 1647 1658 1659 1661 TO 1665 1667 -
1678 1679 1681 TO 1685 1687 1698 1699 1701 TO 1705 1707 1718 1719 -
1721 TO 1725 1727 1738 1739 1741 TO 1745 1758 1759 1761 TO 1765 1778 1779 -
1781 TO 1784 1798 1799 1801 TO 1803 1818 1819 1821 1822 6110 TO 6133 6352 -
6353 TO 6375 7863 7864 7867 7868 7871 7872 7875 7876 7879 7880 7883 7884 7887 -
7888 7891 7892 7895 7896 7899 7900 7903 7904 7907 7908 7911 7912 7915 7916 -
7919 7920 7923 7924 7927 7928 7931 7932 7935 7936 7939 7940 8073 8074 8077 -
8078 8081 8082 8085 8086 8089 8090 8093 8094 8097 8098 8101 8102 8105 8106 -
8109 PR GY -3.7
8110 8113 8114 8117 8118 8121 8122 8125 8126 8129 8130 8133 8134 8137 8138 -
8141 8142 8145 8146 8149 8150 PR GY -3.7
*
*
*********************************************************************************
LOAD 5 (DO-1) PIPING EQUIPMENT OPERATING LOAD (GOP-1) DEGASSER OPERATING LOAD
*********************************************************************************
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*
*
* OPERATING WEIGHT OF EACH DEGASSER = 1880 KN
* LOAD SHARED BY EACH PEDESTAL = 940 KN
* LENGTH = 5.2 M (AS PER STAAD)
* WIDTH = 0.8 M
* UNIFORM PRESSURE = 226 KN/M2 (940/5.2/0.8)
ELEMENT LOAD
2564 TO 2568 2570 TO 2574 2584 TO 2588 2590 TO 2594 2864 TO 2868 2870 TO 2874 -
2884 TO 2888 2890 TO 2894 3621 TO 3625 3627 TO 3631 3641 TO 3645 -
3647 TO 3651 3921 TO 3925 3927 TO 3931 3941 TO 3945 3947 TO 3951 -
6214 TO 6217 6244 TO 6247 6456 TO 6459 6486 TO 6489 8297 TO 8304 -
8349 TO 8356 8497 TO 8504 8549 TO 8556 PR GY -226
*
*
*********************************************************************************
LOAD 6 (DO-2) PIPING EQUIPMENT OPERATING LOAD (GOP-2) BLANKETING OIL TANK OPERATING LOAD
*********************************************************************************
*
*
* TANK OPERATING LOAD = 4250 KN
* AREA OF BASE    = 54.4 M2
* PRESSURE = 78.125 KN/M2
ELEMENT LOAD
393 394 396 397 412 TO 414 416 417 431 TO 434 436 437 450 TO 454 456 457 470 -
471 TO 474 476 477 488 490 TO 494 496 497 508 510 TO 514 516 517 528 -
530 TO 534 536 537 548 550 TO 554 556 557 568 570 TO 574 576 577 588 590 -
591 TO 594 596 597 608 610 TO 614 616 617 628 630 TO 634 636 637 648 -
650 TO 654 656 657 668 670 TO 674 676 677 690 TO 694 696 697 710 TO 714 716 -
717 731 TO 734 736 737 752 TO 754 756 757 773 774 776 777 1438 1439 1441 -
1442 1458 1459 1461 TO 1463 1478 1479 1481 TO 1484 1498 1499 1501 TO 1505 -
1518 1519 1521 TO 1525 1538 1539 1541 TO 1545 1547 1558 1559 1561 TO 1565 -
1567 1578 1579 1581 TO 1585 1587 1598 1599 1601 TO 1605 1607 1618 1619 1621 -
1622 TO 1625 1627 1638 1639 1641 TO 1645 1647 1658 1659 1661 TO 1665 1667 -
1678 1679 1681 TO 1685 1687 1698 1699 1701 TO 1705 1707 1718 1719 -
1721 TO 1725 1727 1738 1739 1741 TO 1745 1758 1759 1761 TO 1765 1778 1779 -
1781 TO 1784 1798 1799 1801 TO 1803 1818 1819 1821 1822 6110 TO 6133 6352 -
6353 TO 6375 7863 7864 7867 7868 7871 7872 7875 7876 7879 7880 7883 7884 7887 -
7888 7891 7892 7895 7896 7899 7900 7903 7904 7907 7908 7911 7912 7915 7916 -
7919 7920 7923 7924 7927 7928 7931 7932 7935 7936 7939 7940 8073 8074 8077 -
8078 8081 8082 8085 8086 8089 8090 8093 8094 8097 8098 8101 8102 8105 8106 -
8109 PR GY -78.125
8110 8113 8114 8117 8118 8121 8122 8125 8126 8129 8130 8133 8134 8137 8138 -
8141 8142 8145 8146 8149 8150 PR GY -78.125
*
*
*********************************************************************************
LOAD 7 (DT-1) PIPING EQUIPMENT TEST LOAD (GTE-1) DEGASSER TEST LOAD
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*
*
* TEST WEIGHT OF EACH DEGASSER = 1880 KN
* LOAD SHARED BY EACH PEDESTAL = 940 KN
* LENGTH = 5.2 M (AS PER STAAD)
* WIDTH = 0.8 M
* UNIFORM PRESSURE = 226 KN/M2 (940/5.2/0.8)
ELEMENT LOAD
2564 TO 2568 2570 TO 2574 2584 TO 2588 2590 TO 2594 2864 TO 2868 2870 TO 2874 -
2884 TO 2888 2890 TO 2894 3621 TO 3625 3627 TO 3631 3641 TO 3645 -
3647 TO 3651 3921 TO 3925 3927 TO 3931 3941 TO 3945 3947 TO 3951 -
6214 TO 6217 6244 TO 6247 6456 TO 6459 6486 TO 6489 8297 TO 8304 -
8349 TO 8356 8497 TO 8504 8549 TO 8556 PR GY -226
*
*
**************************************************************************
LOAD 8 (DT-2) PIPING EQUIPMENT TEST LOAD (GTE-2) BLANKETING OIL TANK TEST LOAD
**************************************************************************
*
*
* TANK TEST LOAD = 4250 KN
* AREA OF BASE    = 54.4 M2
* PRESSURE = 78.125 KN/M2
ELEMENT LOAD
393 394 396 397 412 TO 414 416 417 431 TO 434 436 437 450 TO 454 456 457 470 -
471 TO 474 476 477 488 490 TO 494 496 497 508 510 TO 514 516 517 528 -
530 TO 534 536 537 548 550 TO 554 556 557 568 570 TO 574 576 577 588 590 -
591 TO 594 596 597 608 610 TO 614 616 617 628 630 TO 634 636 637 648 -
650 TO 654 656 657 668 670 TO 674 676 677 690 TO 694 696 697 710 TO 714 716 -
717 731 TO 734 736 737 752 TO 754 756 757 773 774 776 777 1438 1439 1441 -
1442 1458 1459 1461 TO 1463 1478 1479 1481 TO 1484 1498 1499 1501 TO 1505 -
1518 1519 1521 TO 1525 1538 1539 1541 TO 1545 1547 1558 1559 1561 TO 1565 -
1567 1578 1579 1581 TO 1585 1587 1598 1599 1601 TO 1605 1607 1618 1619 1621 -
1622 TO 1625 1627 1638 1639 1641 TO 1645 1647 1658 1659 1661 TO 1665 1667 -
1678 1679 1681 TO 1685 1687 1698 1699 1701 TO 1705 1707 1718 1719 -
1721 TO 1725 1727 1738 1739 1741 TO 1745 1758 1759 1761 TO 1765 1778 1779 -
1781 TO 1784 1798 1799 1801 TO 1803 1818 1819 1821 1822 6110 TO 6133 6352 -
6353 TO 6375 7863 7864 7867 7868 7871 7872 7875 7876 7879 7880 7883 7884 7887 -
7888 7891 7892 7895 7896 7899 7900 7903 7904 7907 7908 7911 7912 7915 7916 -
7919 7920 7923 7924 7927 7928 7931 7932 7935 7936 7939 7940 8073 8074 8077 -
8078 8081 8082 8085 8086 8089 8090 8093 8094 8097 8098 8101 8102 8105 8106 -
8109 PR GY -78.125
8110 8113 8114 8117 8118 8121 8122 8125 8126 8129 8130 8133 8134 8137 8138 -
8141 8142 8145 8146 8149 8150 PR GY -78.125
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LOAD 9 (EP-2) EARTH PRESSURE (WET SOIL)
*************************************************************************
*
*
* DENSITY OF WET SOIL          = 20 KN/M3
* DEPTH OF PIT BELOW GROUND    = 0.8 M APPROXIMATELY
* PRESSURE AT THE BASE         = 16 KN/M2 (20 X 0.4)
* ANGLE OF FRICTION            = 30 DEGREE ASSUME.
* COEFF OF FRICTION            = 0.333
* PRESSURE ON WALL AT THE BASE = 5.4 KN/M2
ELEMENT LOAD
4258 TO 4262 4264 TO 4268 4270 TO 4274 4276 4277 4358 4359 4361 TO 4365 4367 -
4368 TO 4371 4373 TO 4377 4458 TO 4477 4479 4480 4482 TO 4486 4488 TO 4492 -
4494 4495 4988 TO 4992 4994 TO 4998 5000 TO 5004 5006 5007 5088 5089 5091 -
5092 TO 5095 5097 TO 5101 5103 TO 5107 5188 TO 5240 5453 TO 5466 5468 5469 -
5471 TO 5475 5477 TO 5481 5483 5484 5486 TO 5505 6278 6279 6288 6289 6520 -
6521 6530 6531 7492 7493 7502 7503 7749 7750 7769 TO 7772 8661 TO 8664 8681 -
8682 TO 8684 8701 TO 8704 8721 TO 8724 8965 TO 8968 8985 TO 8987 -
8988 TRAP Y -5.4 -2.7
4278 TO 4282 4284 TO 4288 4290 TO 4294 4296 4297 4378 4379 4381 TO 4385 4387 -
4388 TO 4391 4393 TO 4397 4511 TO 4530 4532 4533 4535 TO 4539 4541 TO 4545 -
4547 4548 5008 TO 5012 5014 TO 5018 5020 TO 5024 5026 5027 5108 5109 5111 -
5112 TO 5115 5117 TO 5121 5123 TO 5127 5241 TO 5293 5506 TO 5519 5521 5522 -
5524 TO 5528 5530 TO 5534 5536 5537 5539 TO 5558 6280 6281 6290 6291 6522 -
6523 6532 6533 7494 7495 7504 7505 7753 7754 7773 TO 7776 8665 TO 8668 8685 -
8686 TO 8688 8705 TO 8708 8725 TO 8728 8969 TO 8972 8989 TO 8991 -
8992 TRAP Y -2.7 0
*
*
*************************************************************************
LOAD 10 (LL) LIVE LOAD
*************************************************************************
*
*
ELEMENT LOAD
18 TO 22 24 TO 28 30 TO 34 36 TO 42 44 TO 48 50 TO 54 56 TO 62 64 TO 68 70 -
71 TO 74 76 TO 82 84 TO 88 90 TO 94 96 TO 102 104 TO 108 110 TO 114 -
116 TO 122 124 TO 128 130 TO 134 136 TO 142 144 TO 148 150 TO 154 -
156 TO 162 164 TO 168 170 TO 174 176 TO 182 184 TO 188 190 TO 194 -
196 TO 202 204 TO 208 210 TO 214 216 TO 222 224 TO 228 230 TO 234 -
236 TO 242 244 TO 248 250 TO 254 256 TO 262 264 TO 268 270 TO 274 -
276 TO 282 284 TO 288 290 TO 294 296 TO 302 304 TO 308 310 TO 314 -
316 TO 322 324 TO 328 330 TO 334 336 TO 342 344 TO 348 350 TO 354 -
356 TO 362 364 TO 368 370 TO 374 376 TO 382 384 TO 388 390 TO 392 -
398 TO 402 404 TO 408 410 411 418 TO 422 424 TO 428 430 438 TO 442 -
444 TO 448 458 TO 462 464 TO 468 478 TO 482 484 TO 487 498 TO 502 -
504 TO 507 518 TO 522 524 TO 527 538 TO 542 544 TO 547 558 TO 562 -
564 TO 567 578 TO 582 584 TO 587 598 TO 602 604 TO 607 618 TO 622 -
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624 TO 627 638 TO 642 644 TO 647 658 TO 662 664 TO 667 678 TO 682 -
684 TO 688 698 TO 702 704 TO 708 718 TO 722 724 TO 728 730 738 -
739 PR GY -2
740 PR GY -2
741 PR GY -2
742 744 TO 748 750 751 758 TO 762 764 TO 768 770 TO 772 778 TO 782 -
784 TO 788 790 TO 794 796 TO 802 804 TO 808 810 TO 814 816 TO 822 -
824 TO 828 830 TO 834 836 TO 842 844 TO 848 850 TO 854 856 TO 862 -
864 TO 868 870 TO 874 876 TO 882 884 TO 888 890 TO 894 896 TO 902 -
904 TO 908 910 TO 914 916 TO 922 924 TO 928 930 TO 934 936 TO 942 -
944 TO 948 950 TO 954 956 TO 962 964 TO 968 970 TO 974 976 TO 982 -
984 TO 988 990 TO 994 996 TO 1002 1004 TO 1008 1010 TO 1014 1016 TO 1022 -
1024 TO 1028 1030 TO 1034 1036 TO 1042 1044 TO 1048 1050 TO 1054 -
1056 TO 1062 1064 TO 1068 1070 TO 1074 1076 TO 1079 1081 TO 1085 -
1087 TO 1091 1093 TO 1099 1101 TO 1105 1107 TO 1111 1113 TO 1119 -
1121 TO 1125 1127 TO 1131 1133 TO 1139 1141 TO 1145 1147 TO 1151 -
1153 TO 1159 1161 TO 1165 1167 TO 1171 1173 TO 1179 1181 TO 1185 -
1187 TO 1191 1193 TO 1199 1201 TO 1205 1207 TO 1211 1213 TO 1219 -
1221 TO 1225 1227 TO 1231 1233 TO 1239 1241 TO 1245 1247 TO 1251 -
1253 TO 1259 1261 TO 1265 1267 TO 1271 1273 TO 1279 1281 TO 1285 -
1287 TO 1291 1293 TO 1299 1301 TO 1305 1307 TO 1311 1313 TO 1319 -
1321 TO 1325 1327 TO 1331 1333 TO 1339 1341 TO 1345 1347 TO 1351 -
1353 TO 1359 1361 PR GY -2
1362 TO 1365 1367 TO 1371 1373 TO 1379 1381 TO 1385 1387 TO 1391 1393 TO 1399 -
1401 TO 1405 1407 TO 1411 1413 TO 1419 1421 TO 1425 1427 TO 1431 -
1433 TO 1437 1443 TO 1445 1447 TO 1451 1453 TO 1457 1464 1465 1467 TO 1471 -
1473 TO 1477 1485 1487 TO 1491 1493 TO 1497 1507 TO 1511 1513 TO 1517 1527 -
1528 TO 1531 1533 TO 1537 1548 TO 1551 1553 1568 TO 1571 1573 1588 TO 1591 -
1593 1608 TO 1611 1613 1628 TO 1631 1633 1648 TO 1651 1653 1668 TO 1671 1673 -
1688 TO 1691 1693 1708 TO 1711 1713 1728 TO 1731 1733 1747 7789 TO 7862 7865 -
7866 7869 7870 7873 7874 7877 7878 7881 7882 7885 7886 7889 7890 7893 7894 -
7897 7898 7901 7902 7905 7906 7909 7910 7913 7914 7917 7918 7921 7922 7925 -
7926 7929 7930 7933 7934 7937 7938 7941 TO 8072 8075 8076 8079 8080 8083 -
8084 8087 8088 8091 8092 8095 8096 8099 8100 8103 8104 8107 8108 8111 8112 -
8115 8116 8119 8120 8123 8124 8127 8128 8131 8132 PR GY -2
1748 TO 1751 1753 TO 1757 1767 TO 1771 1773 TO 1777 1785 1787 TO 1791 1793 -
1794 TO 1797 1804 1805 1807 TO 1811 1813 TO 1817 1823 TO 1825 1827 TO 1831 -
1833 TO 1839 1841 TO 1845 1847 TO 1851 1853 TO 1859 1861 TO 1865 -
1867 TO 1871 1873 TO 1879 1881 TO 1885 1887 TO 1891 1893 TO 1899 -
1901 TO 1905 1907 TO 1911 1913 TO 1919 1921 TO 1925 1927 TO 1931 -
1933 TO 1939 1941 TO 1945 1947 TO 1951 1953 TO 1959 1961 TO 1965 -
1967 TO 1971 1973 TO 1979 1981 TO 1985 1987 TO 1991 1993 TO 1999 -
2001 TO 2005 2007 TO 2011 2013 TO 2019 2021 TO 2025 2027 TO 2031 -
2033 TO 2039 2041 TO 2045 2047 TO 2051 2053 TO 2059 2061 TO 2065 -
2067 TO 2071 2073 TO 2079 2081 TO 2085 2087 TO 2091 2093 TO 2099 -
2101 TO 2105 2107 TO 2111 2113 TO 2119 2121 TO 2125 2127 TO 2131 -
2133 TO 2142 2144 TO 2148 2150 TO 2154 2156 TO 2162 2164 TO 2168 -
2170 TO 2174 2176 TO 2182 2184 TO 2188 2190 TO 2194 2196 TO 2202 -
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2204 TO 2208 2210 TO 2214 2216 TO 2222 2224 TO 2228 2230 TO 2234 -
2236 TO 2242 2244 TO 2248 2250 TO 2254 2256 TO 2262 2264 TO 2268 -
2270 TO 2274 2276 TO 2282 2284 TO 2288 2290 TO 2294 2296 TO 2302 -
2304 TO 2308 2310 TO 2314 2316 TO 2322 2324 TO 2328 2330 TO 2334 -
2336 TO 2342 2344 TO 2348 2350 TO 2354 2356 TO 2362 2364 TO 2368 -
2370 TO 2374 2376 TO 2382 2384 PR GY -2
2385 TO 2388 2390 TO 2394 2396 TO 2402 2404 TO 2408 2410 TO 2414 2416 TO 2422 -
2424 TO 2428 2430 TO 2434 2436 TO 2442 2444 TO 2448 2450 TO 2454 -
2456 TO 2462 2464 TO 2468 2470 TO 2474 2476 TO 2482 2484 TO 2488 -
2490 TO 2494 2496 TO 2502 2504 TO 2508 2510 TO 2514 2516 TO 2522 -
2524 TO 2528 2530 TO 2534 2536 2537 2558 TO 2562 2564 2574 2576 TO 2582 2584 -
2594 2596 2597 2618 TO 2622 2624 2634 2636 TO 2642 2644 2654 2656 TO 2662 -
2664 2674 2676 TO 2682 2684 2694 2696 TO 2702 2704 2714 2716 2717 -
2738 TO 2742 2744 2754 2756 TO 2762 2764 2774 2776 TO 2782 2784 2794 2796 -
2797 TO 2802 2804 2814 2816 TO 2822 2824 2834 2836 2837 2858 TO 2862 2864 -
2874 2876 TO 2882 2884 2894 2896 2897 2918 TO 2922 2924 TO 2928 2930 TO 2934 -
2936 TO 2942 2944 TO 2948 2950 TO 2954 2956 TO 2962 2964 TO 2968 -
2970 TO 2974 2976 TO 2982 2984 TO 2988 2990 TO 2994 2996 TO 3002 -
3004 TO 3008 3010 TO 3014 3016 TO 3022 3024 TO 3028 3030 TO 3034 -
3036 TO 3042 3044 TO 3048 3050 TO 3054 3056 TO 3062 3064 TO 3068 -
3070 TO 3074 3076 TO 3082 3084 TO 3088 3090 TO 3094 3096 TO 3102 -
3104 TO 3108 3110 TO 3114 3116 TO 3122 3124 TO 3128 3130 TO 3134 -
3136 TO 3142 3144 TO 3148 3150 TO 3154 3156 TO 3162 3164 TO 3168 -
3170 TO 3174 3176 TO 3182 3184 TO 3188 3190 TO 3194 3196 TO 3199 -
3201 PR GY -2
3202 TO 3205 3207 TO 3211 3213 TO 3219 3221 TO 3225 3227 TO 3231 3233 TO 3239 -
3241 TO 3245 3247 TO 3251 3253 TO 3259 3261 TO 3265 3267 TO 3271 -
3273 TO 3279 3281 TO 3285 3287 TO 3291 3293 TO 3299 3301 TO 3305 -
3307 TO 3311 3313 TO 3319 3321 TO 3325 3327 TO 3331 3333 TO 3339 -
3341 TO 3345 3347 TO 3351 3353 TO 3359 3361 TO 3365 3367 TO 3371 -
3373 TO 3379 3381 TO 3385 3387 TO 3391 3393 TO 3399 3401 TO 3405 -
3407 TO 3411 3413 TO 3419 3421 TO 3425 3427 TO 3431 3433 TO 3439 -
3441 TO 3445 3447 TO 3451 3453 TO 3459 3461 TO 3465 3467 TO 3471 -
3473 TO 3479 3481 TO 3485 3487 TO 3491 3493 TO 3499 3501 TO 3505 -
3507 TO 3511 3513 TO 3519 3521 TO 3525 3527 TO 3531 3533 TO 3539 -
3541 TO 3545 3547 TO 3551 3553 TO 3559 3561 TO 3565 3567 7581 TO 7590 7593 -
7594 7611 7612 7615 TO 7628 7631 TO 7650 7653 TO 7656 8135 8136 8139 8140 -
8143 8144 8147 8148 8151 TO 8292 8297 TO 8304 8309 TO 8486 8629 TO 8644 8781 -
8782 TO 8826 8843 TO 8848 8933 TO 8948 PR GY -2
7408 TO 7417 7420 7421 7438 7439 7442 TO 7445 8613 TO 8620 PR GY -2
3568 TO 3571 3573 TO 3579 3581 TO 3585 3587 TO 3591 3593 TO 3597 3618 3619 -
3621 3631 3633 TO 3639 3641 3651 3653 TO 3657 3678 3679 3681 3691 -
3693 TO 3699 3701 3711 3713 TO 3719 3721 3731 3733 TO 3739 3741 3751 3753 -
3754 TO 3759 3761 3771 3773 TO 3777 3798 3799 3801 3811 3813 TO 3819 3821 -
3831 3833 TO 3839 3841 3851 3853 TO 3859 3861 3871 3873 TO 3879 3881 3891 -
3893 TO 3897 3918 3919 3921 3931 3933 TO 3939 3941 3951 3953 TO 3957 3978 -
3979 3981 TO 3985 3987 TO 3991 3993 TO 3999 4001 TO 4005 4007 TO 4011 4013 -
4014 TO 4019 4021 TO 4025 4027 TO 4031 4033 TO 4039 4041 TO 4045 4047 TO 4051 -
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4053 TO 4059 4061 TO 4065 4067 TO 4071 4073 TO 4079 4081 TO 4085 -
4087 TO 4091 4093 TO 4099 4101 TO 4105 4107 TO 4111 4113 TO 4119 -
4121 TO 4125 4127 TO 4131 4133 TO 4139 4141 TO 4145 4147 TO 4151 -
4153 TO 4159 4161 TO 4165 4167 TO 4171 4173 TO 4179 4181 TO 4185 -
4187 TO 4191 4193 TO 4199 4201 TO 4205 4207 TO 4211 4213 TO 4219 -
4221 TO 4225 4227 TO 4231 4233 TO 4239 4241 TO 4245 4247 TO 4251 -
4253 TO 4257 6066 TO 6109 6134 TO 6211 6250 TO 6277 6308 TO 6351 -
6376 TO 6453 6492 TO 6519 7446 TO 7449 7452 7453 7470 7471 7474 TO 7483 7657 -
7658 TO 7660 7663 7664 7681 7682 7685 TO 7698 7701 TO 7720 7723 TO 7732 7737 -
7738 TO 7740 7745 TO 7748 8487 TO 8492 8497 TO 8504 8509 TO 8612 PR GY -2
8621 TO 8628 8645 TO 8660 8849 TO 8888 8905 TO 8920 8925 TO 8928 8949 TO 8963 -
8964 PR GY -2
*
*
*********************************************************************************
LOAD 11 (AG) PIPE ANCHOR AND GUIDE LOAD (QPA)
*********************************************************************************
*********************************************************************************
LOAD 12 (SN) SNOW LOAD (QSN)
*********************************************************************************
*********************************************************************************
LOAD 13 (FR) FRICTION LOAD (QPF)
*********************************************************************************
*
*
* OPERATING WEIGHT OF EACH DEGASSER = 1880 KN
* COEFFICIENT OF FRICTION = 0.1
* REACTION ON EACH PEDESTAL = 940 KN
* FRICTION LOAD = 94 KN (940 X 0.1)
* PEDESTAL LENGTH = 5.2 M
* PEDESTAL WIDTH = 0.8 M
* UNIFORM SHEAR EACH PEDESTAL = 22.6 KN/M2
*
* MOMENT AT THE BASE OF EACH PEDESTAL = 296.1 KNM
* ASSUME LEVER AREM = 0.4 M (WITHIN THE WIDTH OF PEDESTAL)
* UP AND DOWN LOAD = 296.1/0.4 = 740.25 KN
* UNIFORM PRESSURE ON HALF WIDTH = 356 KN/M2 (740.25/0.4/5.2)
*
*
ELEMENT LOAD
* PEDESTALS AT NORTH
2864 TO 2868 2870 TO 2874 2884 TO 2888 2890 TO 2894 3921 TO 3925 3927 TO 3931 -
3941 TO 3945 3947 TO 3951 6244 TO 6247 6486 TO 6489 8349 TO 8356 -
8549 TO 8556 PR GZ -22.6
* PEDESTALS AT SOUTH
2564 TO 2568 2570 TO 2574 2584 TO 2588 2590 TO 2594 3621 TO 3625 3627 TO 3631 -
3641 TO 3645 3647 TO 3651 6214 TO 6217 6456 TO 6459 8297 TO 8304 -
8497 TO 8504 PR GZ 22.6
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* PEDESTALS AT NORTH - UP AND DOWN LOAD
2884 TO 2888 2890 TO 2894 3941 TO 3945 3947 TO 3951 6246 6247 6488 6489 8353 -
8354 TO 8356 8553 TO 8556 PR GY -356
2864 TO 2868 2870 TO 2874 3921 TO 3925 3927 TO 3931 6244 6245 6486 6487 8349 -
8350 TO 8352 8549 TO 8552 PR GY 356
* PEDESTALS AT SOUTH - UP AND DOWN LOAD
2564 TO 2568 2570 TO 2574 3621 TO 3625 3627 TO 3631 6214 6215 6456 6457 8297 -
8298 TO 8300 8497 TO 8500 PR GY -356
2584 TO 2588 2590 TO 2594 3641 TO 3645 3647 TO 3651 6216 6217 6458 6459 8301 -
8302 TO 8304 8501 TO 8504 PR GY 356
*
*
*********************************************************************************
LOAD 14 (WL-X) FULL WIND IN +X DIR FOR OPERATING CONDITION (QWL-X)
*********************************************************************************
* DESIGN WIND PRESSURE = 0.70 KN/M2 (AT 10 MTS ABOVE GROUND, UNBUILT)
*
*
** WIND LOAD ON DEGASSER TANK
** LENGTH OF TANK     = 11.6 MTS
** DIAMETER OF TANK   = 4 MTS
** CF FOR CYLINDER    = 0.7
** TOTAL WIND LOAD    = CF X DESIGN PRESSUERE X LENGTH X DIAMETER
** TOTAL WIND LOAD    = 22.75 KN (0.7 X 0.7 X 1.6 X 4) ON EACH TANK
** WIND SHARED BY EACH SADDLE = 11.5 KN (ACTING AT THE LEVEL OF TANK CL)
** UNIFORM SHEAR EACH SADDLE = 2.765 KN/M2 (11.5/5.2/0.8)
**
** HEIGHT OF TANK CL ABOVE SADDLE = 2.8 MTS
** HEIGHT OF PEDESTAL ABOVE TOC OF SLAB = 3.15 M
** MOMENT OF AT THE BASE OF EACH PEDESTAL = 68.5 KNM (11.5 X 5.95)
** ASSUME LEVER ARM = 3.6 M AND CONTRIBUTARY AREA OF 1.6 X 0.8 M
** UP AND DOWN LOAD = 19.05 KN (68.5/3.6)
** UP AND DOWN PRESSURE = 14.9 KN/M2 (19.05/0.8/1.6)
ELEMENT LOAD
2564 TO 2568 2570 TO 2574 2584 TO 2588 2590 TO 2594 2864 TO 2868 2870 TO 2874 -
2884 TO 2888 2890 TO 2894 3621 TO 3625 3627 TO 3631 3641 TO 3645 -
3647 TO 3651 3921 TO 3925 3927 TO 3931 3941 TO 3945 3947 TO 3951 -
6214 TO 6217 6244 TO 6247 6456 TO 6459 6486 TO 6489 8297 TO 8304 -
8349 TO 8356 8497 TO 8504 8549 TO 8556 PR GX 2.765
2572 TO 2574 2592 TO 2594 2872 TO 2874 2892 TO 2894 3629 TO 3631 3649 TO 3651 -
3929 TO 3931 3949 TO 3951 8299 8300 8303 8304 8351 8352 8355 8356 8499 8500 -
8503 8504 8551 8552 8555 8556 PR GY -14.9
2564 TO 2566 2584 TO 2586 2864 TO 2866 2884 TO 2886 3621 TO 3623 3641 TO 3643 -
3921 TO 3923 3941 TO 3943 8297 8298 8301 8302 8349 8350 8353 8354 8497 8498 -
8501 8502 8549 8550 8553 8554 PR GY 14.9
*
*
** WIND ON DEGASSER PEDESTAL
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** EXPOSED WIDTH OF PEDESTAL = 0.8 M
** HEIGHT OF PEDESTAL = 3.15 M
** CF FOR FLAT SURFACE = 2
** TOTAL WIND = 3.53 KN EACH PEDESTAL (2 X 0.7 X 3.15 X 0.8)
** SHEAR ON PLATES = 0.85 KN/M2 (3.53/5.2/0.8)
** MOMENT AT THE BASE = 5.56 KNM (3.53 X 3.15/2)
** CONSIDER LEVER ARM = 3.6 M
** UP AND DOWN LOAD = 1.55 KN (5.56/3.6)
** UP AND DOWN PRESSURE = 1.21 KN/M2 (1.55/1.6/0.8)
ELEMENT LOAD
2564 TO 2568 2570 TO 2574 2584 TO 2588 2590 TO 2594 2864 TO 2868 2870 TO 2874 -
2884 TO 2888 2890 TO 2894 3621 TO 3625 3627 TO 3631 3641 TO 3645 -
3647 TO 3651 3921 TO 3925 3927 TO 3931 3941 TO 3945 3947 TO 3951 -
6214 TO 6217 6244 TO 6247 6456 TO 6459 6486 TO 6489 8297 TO 8304 -
8349 TO 8356 8497 TO 8504 8549 TO 8556 PR GX 0.85
2572 TO 2574 2592 TO 2594 2872 TO 2874 2892 TO 2894 3629 TO 3631 3649 TO 3651 -
3929 TO 3931 3949 TO 3951 8299 8300 8303 8304 8351 8352 8355 8356 8499 8500 -
8503 8504 8551 8552 8555 8556 PR GY -1.21
2564 TO 2566 2584 TO 2586 2864 TO 2866 2884 TO 2886 3621 TO 3623 3641 TO 3643 -
3921 TO 3923 3941 TO 3943 8297 8298 8301 8302 8349 8350 8353 8354 8497 8498 -
8501 8502 8549 8550 8553 8554 PR GY 1.21
*
*
** WIND LOAD ON BLANKETING OIL TANK
** HEIGHT OF TANK        = 8.5 KN
** DIAMETER OF TANK      = 8.0 MTS
** CF FOR CYLINDER       = 0.7
** TOTAL WIND LOAD       = CF X DESIGN PRESSUERE X HEIGHT X DIAMETER
** TOTAL WIND LOAD       = 33.50 KN (ACTING AT MID HEIGHT OF THE TANK)
** UNIFORM SHEAR         = 0.616 KN/M2 (33.50/54.4 AREA)
** MOMENT ABOUT BASE     = 149.1 KNM (33.5 X (0.2+8.5/2))
** CONSIDER LEVER ARM    = 7.2 M
** UP AND DOWN LOAD      = 20.71 KN
** UP AND DOWN PRESSURE  = 6.5 KN/M2 (20.71/4/0.8)
ELEMENT LOAD
393 394 396 397 412 TO 414 416 417 431 TO 434 436 437 450 TO 454 456 457 470 -
471 TO 474 476 477 488 490 TO 494 496 497 508 510 TO 514 516 517 528 -
530 TO 534 536 537 548 550 TO 554 556 557 568 570 TO 574 576 577 588 590 -
591 TO 594 596 597 608 610 TO 614 616 617 628 630 TO 634 636 637 648 -
650 TO 654 656 657 668 670 TO 674 676 677 690 TO 694 696 697 710 TO 714 716 -
717 731 TO 734 736 737 752 TO 754 756 757 773 774 776 777 1438 1439 1441 -
1442 1458 1459 1461 TO 1463 1478 1479 1481 TO 1484 1498 1499 1501 TO 1505 -
1518 1519 1521 TO 1525 1538 1539 1541 TO 1545 1547 1558 1559 1561 TO 1565 -
1567 1578 1579 1581 TO 1585 1587 1598 1599 1601 TO 1605 1607 1618 1619 1621 -
1622 TO 1625 1627 1638 1639 1641 TO 1645 1647 1658 1659 1661 TO 1665 1667 -
1678 1679 1681 TO 1685 1687 1698 1699 1701 TO 1705 1707 1718 1719 -
1721 TO 1725 1727 1738 1739 1741 TO 1745 1758 1759 1761 TO 1765 1778 1779 -
1781 TO 1784 1798 1799 1801 TO 1803 1818 1819 1821 1822 6110 TO 6133 6352 -
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6353 TO 6375 7863 7864 7867 7868 7871 7872 7875 7876 7879 7880 7883 7884 7887 -
7888 7891 7892 7895 7896 7899 7900 7903 7904 7907 7908 7911 7912 7915 7916 -
7919 7920 7923 7924 7927 7928 7931 7932 7935 7936 7939 7940 8073 8074 8077 -
8078 8081 8082 8085 8086 8089 8090 8093 8094 8097 8098 8101 8102 8105 8106 -
8109 PR GX 0.616
8110 8113 8114 8117 8118 8121 8122 8125 8126 8129 8130 8133 8134 8137 8138 -
8141 8142 8145 8146 8149 8150 PR GX 0.616
488 508 528 548 568 588 608 628 648 668 6112 TO 6131 PR GY 6.5
1547 1567 1587 1607 1627 1647 1667 1687 1707 1727 6354 TO 6373 PR GY -6.5
*
*
** WIND PRESSURE ON DYKE WALL
** CF = 2 FOR FLAT SURFACE
** PRESSURE ON WALLS = 2 X 0.7 = 1.4 KN/M2
ELEMENT LOAD
5294 TO 5452 5559 TO 5572 5574 5575 5577 TO 5581 5583 TO 5587 5589 5590 5592 -
5593 TO 5625 5627 5628 5630 TO 5634 5636 TO 5640 5642 5643 5645 TO 5678 5680 -
5681 5683 TO 5687 5689 TO 5693 5695 5696 5698 TO 5717 7496 TO 7501 -
7777 TO 7788 8993 TO 9004 PR GX 1.4
*
*
*********************************************************************************
LOAD 15 (WL-Z) FULL WIND IN +Z DIR FOR OPERATING CONDITION (QWL-Z)
*********************************************************************************
* DESIGN WIND PRESSURE = 0.70 KN/M2 (AT 10 MTS ABOVE GROUND, UNBUILT)
*
*
** WIND LOAD ON DEGASSER TANKS
** DIAMETER OF TANKS = 4 MTS
** CF FOR FLAT SURFACE   = 2
** TOTAL WIND LOAD   = CF X DESIGN PRESSUERE X AREA
** TOTAL WIND LOAD   = 17.6 KN (AREA OF CIRCLE X PRESSURE X CF) EACH TANK
** WIND SHARED BY EACH SADDLE = 8.8 KN (ACTING AT THE LEVEL OF TANK CL)
** UNIFORM SHEAR EACH PEDESTAL = 2.12 KN/M2 (8.8/5.2/0.8)
** HEIGHT OF TANK CL ABOVE BASE SLAB = 5.95 MTS
** MOMENT ABOUT BASE = 105 KNM (17.6 X 5.95)
** CENTER TO CENTER SADDLE DIMENSION = 6.0 MTS
** UP AND DOWN LOAD = 17.5 KN (105/6)
** UP AND DOWN PRESSURE = 4.21 KN/M2 (17.5/5.2/0.8)
ELEMENT LOAD
2564 TO 2568 2570 TO 2574 2584 TO 2588 2590 TO 2594 2864 TO 2868 2870 TO 2874 -
2884 TO 2888 2890 TO 2894 3621 TO 3625 3627 TO 3631 3641 TO 3645 -
3647 TO 3651 3921 TO 3925 3927 TO 3931 3941 TO 3945 3947 TO 3951 -
6214 TO 6217 6244 TO 6247 6456 TO 6459 6486 TO 6489 8297 TO 8304 -
8349 TO 8356 8497 TO 8504 8549 TO 8556 PR GZ 2.12
2564 TO 2568 2570 TO 2574 2584 TO 2588 2590 TO 2594 3621 TO 3625 3627 TO 3631 -
3641 TO 3645 3647 TO 3651 6214 TO 6217 6456 TO 6459 8297 TO 8304 -
8497 TO 8504 PR GY -4.21
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2864 TO 2868 2870 TO 2874 2884 TO 2888 2890 TO 2894 3921 TO 3925 3927 TO 3931 -
3941 TO 3945 3947 TO 3951 6244 TO 6247 6486 TO 6489 8349 TO 8356 -
8549 TO 8556 PR GY 4.21
*
*
** WIND LOAD ON DEGASSER PEDESTAL
** EXPOSED WIDTH OF PEDESTAL = 5 M (5.2 IN STAAD)
** TOTAL WIND LOAD ON EACH PEDESATL = 22.05 KN (2 X 0.7 X 5 X 3.15)
** UNIFORM SHEAR ON PLATES = 5.3 KN/M2 (22.5/5.2/0.8)
** MOMENT AT THE BASE = 35 KNM (22.5 X 3.15/2)
** CONSIDER LEVER ARM  = 0.4 M
** UP AND DOWN LOAD = 86.85 KN (35/0.4)
** UP AND DOWN PRESSURE = 41.75 (87.5/5.2/0.4)
ELEMENT LOAD
2564 TO 2568 2570 TO 2574 2584 TO 2588 2590 TO 2594 2864 TO 2868 2870 TO 2874 -
2884 TO 2888 2890 TO 2894 3621 TO 3625 3627 TO 3631 3641 TO 3645 -
3647 TO 3651 3921 TO 3925 3927 TO 3931 3941 TO 3945 3947 TO 3951 -
6214 TO 6217 6244 TO 6247 6456 TO 6459 6486 TO 6489 8297 TO 8304 -
8349 TO 8356 8497 TO 8504 8549 TO 8556 PR GZ 5.3
2564 TO 2568 2570 TO 2574 2864 TO 2868 2870 TO 2874 3621 TO 3625 3627 TO 3631 -
3921 TO 3925 3927 TO 3931 6214 6215 6244 6245 6456 6457 6486 6487 -
8297 TO 8300 8349 TO 8352 8497 TO 8500 8549 TO 8552 PR GY -41.75
2584 TO 2588 2590 TO 2594 2884 TO 2888 2890 TO 2894 3641 TO 3645 3647 TO 3651 -
3941 TO 3945 3947 TO 3951 6216 6217 6246 6247 6458 6459 6488 6489 -
8301 TO 8304 8353 TO 8356 8501 TO 8504 8553 TO 8556 PR GY 41.75
*
*
** WIND LOAD ON BLANKETING OIL TANK
** HEIGHT OF TANK         = 8.5 KN
** DIAMETER OF TANK       = 8.0 MTS
** CF FOR CYLINDER        = 0.7
** TOTAL WIND LOAD        = CF X DESIGN PRESSUERE X HEIGHT X DIAMETER
** TOTAL WIND LOAD        = 33.50 KN (ACTING AT MID HEIGHT OF THE TANK)
** UNIFORM SHEAR          = 0.616 KN/M2 (33.50/54.4 AREA)
** MOMENT ABOUT BASE      = 149.1 KNM (33.5 X (0.2+8.5/2))
** CONSIDER LEVER ARM     = 7.2 M
** UP AND DOWN LOAD       = 20.71 KN
** UP AND DOWN PRESSURE   = 6.5 KN/M2 (20.71/4/0.8)
ELEMENT LOAD
393 394 396 397 412 TO 414 416 417 431 TO 434 436 437 450 TO 454 456 457 470 -
471 TO 474 476 477 488 490 TO 494 496 497 508 510 TO 514 516 517 528 -
530 TO 534 536 537 548 550 TO 554 556 557 568 570 TO 574 576 577 588 590 -
591 TO 594 596 597 608 610 TO 614 616 617 628 630 TO 634 636 637 648 -
650 TO 654 656 657 668 670 TO 674 676 677 690 TO 694 696 697 710 TO 714 716 -
717 731 TO 734 736 737 752 TO 754 756 757 773 774 776 777 1438 1439 1441 -
1442 1458 1459 1461 TO 1463 1478 1479 1481 TO 1484 1498 1499 1501 TO 1505 -
1518 1519 1521 TO 1525 1538 1539 1541 TO 1545 1547 1558 1559 1561 TO 1565 -
1567 1578 1579 1581 TO 1585 1587 1598 1599 1601 TO 1605 1607 1618 1619 1621 -
```

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1622 TO 1625 1627 1638 1639 1641 TO 1645 1647 1658 1659 1661 TO 1665 1667 -
1678 1679 1681 TO 1685 1687 1698 1699 1701 TO 1705 1707 1718 1719 -
1721 TO 1725 1727 1738 1739 1741 TO 1745 1758 1759 1761 TO 1765 1778 1779 -
1781 TO 1784 1798 1799 1801 TO 1803 1818 1819 1821 1822 6110 TO 6133 6352 -
6353 TO 6375 7863 7864 7867 7868 7871 7872 7875 7876 7879 7880 7883 7884 7887 -
7888 7891 7892 7895 7896 7899 7900 7903 7904 7907 7908 7911 7912 7915 7916 -
7919 7920 7923 7924 7927 7928 7931 7932 7935 7936 7939 7940 8073 8074 8077 -
8078 8081 8082 8085 8086 8089 8090 8093 8094 8097 8098 8101 8102 8105 8106 -
8109 PR GZ 0.616
8110 8113 8114 8117 8118 8121 8122 8125 8126 8129 8130 8133 8134 8137 8138 -
8141 8142 8145 8146 8149 8150 PR GZ 0.616
753 754 756 757 773 774 776 777 1798 1799 1801 1802 1818 1819 1821 1822 7935 -
7936 7939 7940 8145 8146 8149 8150 PR GY 6.5
393 394 396 397 413 414 416 417 1438 1439 1441 1442 1458 1459 1461 1462 7863 -
7864 7867 7868 8073 8074 8077 8078 PR GY -6.5
*
*
** WIND PRESSURE ON DYKE WALL
** CF = 2 FOR FLAT SURFACE
** PRESSURE ON WALLS = 2 X 0.7 = 1.4 KN/M2
ELEMENT LOAD
5028 TO 5032 5034 TO 5038 5040 TO 5044 5046 TO 5052 5054 TO 5058 5060 TO 5064 -
5066 TO 5072 5074 TO 5078 5080 TO 5084 5086 5087 5128 5129 5131 TO 5135 5137 -
5138 TO 5141 5143 TO 5149 5151 TO 5155 5157 TO 5161 5163 TO 5169 5171 TO 5175 -
5177 TO 5181 5183 TO 5187 6292 TO 6297 6534 TO 6539 8709 TO 8720 -
8729 TO 8740 PR GZ 1.4
*
*
*********************************************************************************
LOAD 16 (WP-X) PARTIAL WIND IN +X DIR FOR TEST CONDITION (QWLP-X)
*********************************************************************************
*
*
REPEAT LOAD
14 0.5
*
*
*********************************************************************************
LOAD 17 (FL-1) FLUID IN DEGASSER PIT DURING CALAMITY (QFL-1)
*********************************************************************************
*
*
* VERTICAL PRESSURE ON BASE SLAB.
* DENSITY OF BRINE WATER = 12 KN/M2
* DEPTH OF BRINE WATER = 1.5 M
* PRESSURE = 18 KN/M2
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ELEMENT LOAD
18 TO 22 24 TO 28 30 TO 34 36 TO 42 44 TO 48 50 TO 54 56 TO 62 64 TO 68 70 -
71 TO 74 76 TO 82 84 TO 88 90 TO 94 96 TO 102 104 TO 108 110 TO 114 -
116 TO 122 124 TO 128 130 TO 134 136 137 1078 1079 1081 TO 1085 1087 TO 1091 -
1093 TO 1099 1101 TO 1105 1107 TO 1111 1113 TO 1119 1121 TO 1125 -
1127 TO 1131 1133 TO 1139 1141 TO 1145 1147 TO 1151 1153 TO 1159 -
1161 TO 1165 1167 TO 1171 1173 TO 1179 1181 TO 1185 1187 TO 1191 -
1193 TO 1197 2138 TO 2142 2144 TO 2148 2150 TO 2154 2156 TO 2162 -
2164 TO 2168 2170 TO 2174 2176 TO 2182 2184 TO 2188 2190 TO 2194 -
2196 TO 2202 2204 TO 2208 2210 TO 2214 2216 TO 2222 2224 TO 2228 -
2230 TO 2234 2236 TO 2242 2244 TO 2248 2250 TO 2254 2256 TO 2262 -
2264 TO 2268 2270 TO 2274 2276 TO 2282 2284 TO 2288 2290 TO 2294 -
2296 TO 2302 2304 TO 2308 2310 TO 2314 2316 TO 2322 2324 TO 2328 -
2330 TO 2334 2336 TO 2342 2344 TO 2348 2350 TO 2354 2356 TO 2362 -
2364 TO 2368 2370 TO 2374 2376 TO 2382 2384 TO 2388 2390 TO 2394 -
2396 TO 2402 2404 TO 2408 2410 TO 2414 2416 TO 2422 2424 TO 2428 -
2430 TO 2434 2436 TO 2442 2444 TO 2448 2450 TO 2454 2456 TO 2462 -
2464 TO 2468 2470 TO 2474 2476 TO 2482 2484 TO 2488 2490 TO 2494 -
2496 TO 2502 2504 TO 2508 PR GY -18
2510 TO 2514 2516 TO 2522 2524 TO 2528 2530 TO 2534 2536 2537 2558 TO 2562 -
2564 2574 2576 TO 2582 2584 2594 2596 2597 2618 TO 2622 2624 TO 2628 2630 -
2631 TO 2634 2636 TO 2642 2644 TO 2648 2650 TO 2654 2656 TO 2662 2664 TO 2668 -
2670 TO 2674 2676 TO 2682 2684 TO 2688 2690 TO 2694 2696 TO 2702 -
2704 TO 2708 2710 TO 2714 2716 2717 2738 TO 2742 2744 TO 2748 2750 TO 2754 -
2756 TO 2762 2764 TO 2768 2770 TO 2774 2776 TO 2782 2784 TO 2788 -
2790 TO 2794 2796 TO 2802 2804 TO 2808 2810 TO 2814 2816 TO 2822 -
2824 TO 2828 2830 TO 2834 2836 2837 2858 TO 2862 2864 2874 2876 TO 2882 2884 -
2894 2896 2897 2918 TO 2922 2924 TO 2928 2930 TO 2934 2936 TO 2942 -
2944 TO 2948 2950 TO 2954 2956 TO 2962 2964 TO 2968 2970 TO 2974 -
2976 TO 2982 2984 TO 2988 2990 TO 2994 2996 TO 3002 3004 TO 3008 -
3010 TO 3014 3016 TO 3022 3024 TO 3028 3030 TO 3034 3036 TO 3042 -
3044 TO 3048 3050 TO 3054 3056 TO 3062 3064 TO 3068 3070 TO 3074 -
3076 TO 3082 3084 TO 3088 3090 TO 3094 3096 TO 3102 3104 TO 3108 -
3110 TO 3114 3116 TO 3122 3124 TO 3128 3130 TO 3134 3136 TO 3142 -
3144 TO 3148 3150 TO 3154 3156 TO 3162 3164 TO 3168 3170 TO 3174 -
3176 TO 3182 3184 TO 3188 3190 TO 3194 3196 TO 3199 3201 TO 3205 -
3207 TO 3211 3213 TO 3219 3221 TO 3225 3227 TO 3231 3233 TO 3239 -
3241  PR GY -18
3242 TO 3245 3247 TO 3251 3253 TO 3259 3261 TO 3265 3267 TO 3271 3273 TO 3279 -
3281 TO 3285 3287 TO 3291 3293 TO 3299 3301 TO 3305 3307 TO 3311 -
3313 TO 3319 3321 TO 3325 3327 TO 3331 3333 TO 3339 3341 TO 3345 -
3347 TO 3351 3353 TO 3359 3361 TO 3365 3367 TO 3371 3373 TO 3379 -
3381 TO 3385 3387 TO 3391 3393 TO 3399 3401 TO 3405 3407 TO 3411 -
3413 TO 3419 3421 TO 3425 3427 TO 3431 3433 TO 3439 3441 TO 3445 -
3447 TO 3451 3453 TO 3459 3461 TO 3465 3467 TO 3471 3473 TO 3479 -
3481 TO 3485 3487 TO 3491 3493 TO 3499 3501 TO 3505 3507 TO 3511 -
3513 TO 3519 3521 TO 3525 3527 TO 3531 3533 TO 3539 3541 TO 3545 -
3547 TO 3551 3553 TO 3559 3561 TO 3565 3567 TO 3571 3573 TO 3579 -
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3581 TO 3585 3587 TO 3591 3593 TO 3597 3618 3619 3621 3631 3633 TO 3639 3641 -
3651 3653 TO 3657 3678 3679 3681 TO 3685 3687 TO 3691 3693 TO 3699 -
3701 TO 3705 3707 7581 TO 7590 7593 TO 7612 7615 TO 7628 7631 TO 7650 7653 -
7654 TO 7656 7789 TO 7812 8001 TO 8024 8213 TO 8292 8297 TO 8304 8309 TO 8492 -
8497 TO 8504 8509 TO 8514 8629 TO 8644 8781 TO 8916 8933 TO 8964 PR GY -18
7408 TO 7417 7420 TO 7439 7442 TO 7445 8613 TO 8620 PR GY -18
3708 TO 3711 3713 TO 3719 3721 TO 3725 3727 TO 3731 3733 TO 3739 3741 TO 3745 -
3747 TO 3751 3753 TO 3759 3761 TO 3765 3767 TO 3771 3773 TO 3777 3798 3799 -
3801 TO 3805 3807 TO 3811 3813 TO 3819 3821 TO 3825 3827 TO 3831 -
3833 TO 3839 3841 TO 3845 3847 TO 3851 3853 TO 3859 3861 TO 3865 -
3867 TO 3871 3873 TO 3879 3881 TO 3885 3887 TO 3891 3893 TO 3897 3918 3919 -
3921 3931 3933 TO 3939 3941 3951 3953 TO 3957 3978 3979 3981 TO 3985 3987 -
3988 TO 3991 3993 TO 3999 4001 TO 4005 4007 TO 4011 4013 TO 4019 4021 TO 4025 -
4027 TO 4031 4033 TO 4039 4041 TO 4045 4047 TO 4051 4053 TO 4059 -
4061 TO 4065 4067 TO 4071 4073 TO 4079 4081 TO 4085 4087 TO 4091 -
4093 TO 4099 4101 TO 4105 4107 TO 4111 4113 TO 4119 4121 TO 4125 -
4127 TO 4131 4133 TO 4139 4141 TO 4145 4147 TO 4151 4153 TO 4159 -
4161 TO 4165 4167 TO 4171 4173 TO 4179 4181 TO 4185 4187 TO 4191 -
4193 TO 4199 4201 TO 4205 4207 TO 4211 4213 TO 4219 4221 TO 4225 -
4227 TO 4231 4233 TO 4239 4241 TO 4245 4247 TO 4251 4253 TO 4257 -
6066 TO 6077 6172 TO 6211 6220 TO 6229 6232 TO 6241 6250 TO 6277 -
6308 TO 6319 6414 TO 6453 6462 TO 6471 6474 TO 6483 6492 TO 6519 -
7446 TO 7449 7452 TO 7471 7474 TO 7491 7657 TO 7660 7663 TO 7682 -
7685 TO 7698 7701 TO 7720 7723 TO 7748 8515 TO 8612 8621 TO 8628 PR GY -18
8645 TO 8660 8917 TO 8932 PR GY -18
*
*
* HORIZONTAL PRESSURE ON - ON EAST, WEST AND SOUTH WALL
*
*
4258 TO 4262 4264 TO 4268 4270 TO 4274 4276 4277 4358 4359 4361 TO 4365 4367 -
4368 TO 4371 4373 TO 4377 4458 TO 4477 4479 4480 4482 TO 4486 4488 TO 4492 -
4494 4495 4497 TO 4510 4723 TO 4728 5235 TO 5240 5453 TO 5466 5468 5469 5471 -
5472 TO 5475 5477 TO 5481 5483 5484 5486 TO 5505 6278 6279 6520 6521 7492 -
7493 7502 7503 7749 TO 7752 7769 TO 7772 8661 TO 8664 8681 TO 8684 -
8965 TO 8968 8985 TO 8988 TRAP Y 18 14.4
4278 TO 4282 4284 TO 4288 4290 TO 4294 4296 4297 4378 4379 4381 TO 4385 4387 -
4388 TO 4391 4393 TO 4397 4511 TO 4530 4532 4533 4535 TO 4539 4541 TO 4545 -
4547 4548 4550 TO 4563 4776 TO 4781 5288 TO 5293 5506 TO 5519 5521 5522 5524 -
5525 TO 5528 5530 TO 5534 5536 5537 5539 TO 5558 6280 6281 6522 6523 7494 -
7495 7504 7505 7753 TO 7756 7773 TO 7776 8665 TO 8668 8685 TO 8688 -
8969 TO 8972 8989 TO 8992 TRAP Y 14.4 10.8
4298 TO 4302 4304 TO 4308 4310 TO 4314 4316 4317 4398 4399 4401 TO 4405 4407 -
4408 TO 4411 4413 TO 4417 4564 TO 4583 4585 4586 4588 TO 4592 4594 TO 4598 -
4600 4601 4603 TO 4616 4829 TO 4834 5341 TO 5346 5559 TO 5572 5574 5575 5577 -
5578 TO 5581 5583 TO 5587 5589 5590 5592 TO 5611 6282 6283 6524 6525 7496 -
7497 7506 7507 7757 TO 7760 7777 TO 7780 8669 TO 8672 8689 TO 8692 -
8973 TO 8976 8993 TO 8996 TRAP Y 10.8 7.2
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4318 TO 4322 4324 TO 4328 4330 TO 4334 4336 4337 4418 4419 4421 TO 4425 4427 -
4428 TO 4431 4433 TO 4437 4617 TO 4636 4638 4639 4641 TO 4645 4647 TO 4651 -
4653 4654 4656 TO 4669 4882 TO 4887 5394 TO 5399 5612 TO 5625 5627 5628 5630 -
5631 TO 5634 5636 TO 5640 5642 5643 5645 TO 5664 6284 6285 6526 6527 7498 -
7499 7508 7509 7761 TO 7764 7781 TO 7784 8673 TO 8676 8693 TO 8696 -
8977 TO 8980 8997 TO 9000 TRAP Y 7.2 3.6
4338 TO 4342 4344 TO 4348 4350 TO 4354 4356 4357 4438 4439 4441 TO 4445 4447 -
4448 TO 4451 4453 TO 4457 4670 TO 4689 4691 4692 4694 TO 4698 4700 TO 4704 -
4706 4707 4709 TO 4722 4935 TO 4940 5447 TO 5452 5665 TO 5678 5680 5681 5683 -
5684 TO 5687 5689 TO 5693 5695 5696 5698 TO 5717 6286 6287 6528 6529 7500 -
7501 7510 7511 7765 TO 7768 7785 TO 7788 8677 TO 8680 8697 TO 8700 -
8981 TO 8984 9001 TO 9004 TRAP Y 3.6 0
*
*
* HORIZONTAL PRESSURE ON - COMMON WALL
*
*
5775 5780 5785 5790 5800 5805 5810 5815 5820 5830 5835 5840 5845 5850 5860 -
5865 5870 5875 5885 5890 5895 5900 5905 5915 5920 5925 5930 5935 5945 5950 -
5955 5960 5965 5970 6298 6299 6540 6541 8741 8742 8751 8752 8761 8762 8771 -
8772 TRAP Y -18 -14.4
5776 5781 5786 5791 5801 5806 5811 5816 5821 5831 5836 5841 5846 5851 5861 -
5866 5871 5876 5886 5891 5896 5901 5906 5916 5921 5926 5931 5936 5946 5951 -
5956 5961 5966 5971 6300 6301 6542 6543 8743 8744 8753 8754 8763 8764 8773 -
8774 TRAP Y -14.4 -10.8
5777 5782 5787 5792 5802 5807 5812 5817 5822 5832 5837 5842 5847 5852 5862 -
5867 5872 5877 5887 5892 5897 5902 5907 5917 5922 5927 5932 5937 5947 5952 -
5957 5962 5967 5972 6302 6303 6544 6545 8745 8746 8755 8756 8765 8766 8775 -
8776 TRAP Y -10.8 -7.2
5778 5783 5788 5793 5803 5808 5813 5818 5823 5833 5838 5843 5848 5853 5863 -
5868 5873 5878 5888 5893 5898 5903 5908 5918 5923 5928 5933 5938 5948 5953 -
5958 5963 5968 5973 6304 6305 6546 6547 8747 8748 8757 8758 8767 8768 8777 -
8778 TRAP Y -7.2 -3.6
5779 5784 5789 5794 5804 5809 5814 5819 5824 5834 5839 5844 5849 5854 5864 -
5869 5874 5879 5889 5894 5899 5904 5909 5919 5924 5929 5934 5939 5949 5954 -
5959 5964 5969 5974 6306 6307 6548 6549 8749 8750 8759 8760 8769 8770 8779 -
8780 TRAP Y -3.6 0
*
*
*********************************************************************************
LOAD 18 (FL-2) FLUID IN BLANKETING OIL PIT DURING CALAMITY (QFL-2)
*********************************************************************************
*
*
ELEMENT LOAD
*
*
* VERTICAL PRESSURE ON BASE SLAB.
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* DENSITY OF WATER = 10 KN/M2
* DEPTH OF WATER = 1.5 M
* PRESSURE = 15 KN/M2
*
*
138 TO 142 144 TO 148 150 TO 154 156 TO 162 164 TO 168 170 TO 174 176 TO 182 -
184 TO 188 190 TO 194 196 TO 202 204 TO 208 210 TO 214 216 TO 222 -
224 TO 228 230 TO 234 236 TO 242 244 TO 248 250 TO 254 256 TO 262 -
264 TO 268 270 TO 274 276 TO 282 284 TO 288 290 TO 294 296 TO 302 -
304 TO 308 310 TO 314 316 TO 322 324 TO 328 330 TO 334 336 TO 342 -
344 TO 348 350 TO 354 356 TO 362 364 TO 368 370 TO 374 376 TO 382 -
384 TO 388 390 TO 392 398 TO 402 404 TO 408 410 411 418 TO 422 424 TO 428 -
430 438 TO 442 444 TO 448 458 TO 462 464 TO 468 478 TO 482 484 TO 487 498 -
499 TO 502 504 TO 507 518 TO 522 524 TO 527 538 TO 542 544 TO 547 558 TO 562 -
564 TO 567 578 TO 582 584 TO 587 598 TO 602 604 TO 607 618 TO 622 -
624 TO 627 638 TO 642 644 TO 647 658 TO 662 664 TO 667 678 TO 682 -
684 TO 688 698 TO 702 704 TO 708 718 TO 722 724 TO 728 730 738 TO 742 744 -
745 TO 748 750 751 758 TO 762 764 TO 768 770 TO 772 778 TO 782 784 TO 788 -
790 TO 794 796 TO 802 804 TO 808 810 TO 814 816 TO 822 824 TO 828 -
830 TO 834 836 TO 842 844 TO 848 850 TO 854 856 TO 862 864 PR GY -15
865 TO 868 870 TO 874 876 TO 882 884 TO 888 890 TO 894 896 TO 902 904 TO 908 -
910 TO 914 916 TO 922 924 TO 928 930 TO 934 936 TO 942 944 TO 948 -
950 TO 954 956 TO 962 964 TO 968 970 TO 974 976 TO 982 984 TO 988 -
990 TO 994 996 TO 1002 1004 TO 1008 1010 TO 1014 1016 TO 1022 1024 TO 1028 -
1030 TO 1034 1036 TO 1042 1044 TO 1048 1050 TO 1054 1056 TO 1062 -
1064 TO 1068 1070 TO 1074 1076 1077 1198 1199 1201 TO 1205 1207 TO 1211 1213 -
1214 TO 1219 1221 TO 1225 1227 TO 1231 1233 TO 1239 1241 TO 1245 1247 TO 1251 -
1253 TO 1259 1261 TO 1265 1267 TO 1271 1273 TO 1279 1281 TO 1285 -
1287 TO 1291 1293 TO 1299 1301 TO 1305 1307 TO 1311 1313 TO 1319 -
1321 TO 1325 1327 TO 1331 1333 TO 1339 1341 TO 1345 1347 TO 1351 -
1353 TO 1359 1361 TO 1365 1367 TO 1371 1373 TO 1379 1381 TO 1385 -
1387 TO 1391 1393 TO 1399 1401 TO 1405 1407 TO 1411 1413 TO 1419 -
1421 TO 1425 1427 TO 1431 1433 TO 1437 1443 TO 1445 1447 TO 1451 -
1453 TO 1457 1464 1465 1467 TO 1471 1473 TO 1477 1485 1487 TO 1491 -
1493 TO 1497 1507 TO 1511 1513 TO 1517 1527 TO 1531 1533 TO 1537 -
1548 TO 1551 1553 1568 TO 1571 1573 1588 TO 1591 1593 1608 TO 1611 1613 1628 -
1629 TO 1631 1633 1648 TO 1651 1653 1668 TO 1671 1673 1688 TO 1691 1693 1708 -
1709 TO 1711 1713 PR GY -15
1728 TO 1731 1733 1747 TO 1751 1753 TO 1757 1767 TO 1771 1773 TO 1777 1785 -
1787 TO 1791 1793 TO 1797 1804 1805 1807 TO 1811 1813 TO 1817 1823 TO 1825 -
1827 TO 1831 1833 TO 1839 1841 TO 1845 1847 TO 1851 1853 TO 1859 -
1861 TO 1865 1867 TO 1871 1873 TO 1879 1881 TO 1885 1887 TO 1891 -
1893 TO 1899 1901 TO 1905 1907 TO 1911 1913 TO 1919 1921 TO 1925 1927 7813 -
7814 TO 7862 7865 7866 7869 7870 7873 7874 7877 7878 7881 7882 7885 7886 7889 -
7890 7893 7894 7897 7898 7901 7902 7905 7906 7909 7910 7913 7914 7917 7918 -
7921 7922 7925 7926 7929 7930 7933 7934 7937 7938 7941 TO 8000 8025 TO 8072 -
8075 8076 8079 8080 8083 8084 8087 8088 8091 8092 8095 8096 8099 8100 8103 -
8104 8107 8108 8111 8112 8115 8116 8119 8120 8123 8124 8127 8128 8131 8132 -
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8135 8136 8139 8140 8143 8144 8147 8148 8151 TO 8170 PR GY -15
1928 TO 1931 1933 TO 1939 1941 TO 1945 1947 TO 1951 1953 TO 1959 1961 TO 1965 -
1967 TO 1971 1973 TO 1979 1981 TO 1985 1987 TO 1991 1993 TO 1999 -
2001 TO 2005 2007 TO 2011 2013 TO 2019 2021 TO 2025 2027 TO 2031 -
2033 TO 2039 2041 TO 2045 2047 TO 2051 2053 TO 2059 2061 TO 2065 -
2067 TO 2071 2073 TO 2079 2081 TO 2085 2087 TO 2091 2093 TO 2099 -
2101 TO 2105 2107 TO 2111 2113 TO 2119 2121 TO 2125 2127 TO 2131 -
2133 TO 2137 6078 TO 6109 6134 TO 6171 6320 TO 6351 6376 TO 6413 -
8171 TO 8212 PR GY -15
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*
* HORIZONTAL PRESSURE ON - ON EAST, WEST AND NORTH WALL
*
*
4729 TO 4745 4756 TO 4775 4988 TO 4992 4994 TO 4998 5000 TO 5004 5006 5007 -
5088 5089 5091 TO 5095 5097 TO 5101 5103 TO 5107 5188 TO 5234 5975 5980 5985 -
5990 5995 6000 6005 6010 6015 6020 6025 6030 6035 6040 6045 6050 6055 6060 -
6288 6289 6530 6531 8701 TO 8704 8721 TO 8724 TRAP Y 15 12
4782 TO 4798 4809 TO 4828 5008 TO 5012 5014 TO 5018 5020 TO 5024 5026 5027 -
5108 5109 5111 TO 5115 5117 TO 5121 5123 TO 5127 5241 TO 5287 5976 5981 5986 -
5991 5996 6001 6006 6011 6016 6021 6026 6031 6036 6041 6046 6051 6056 6061 -
6290 6291 6532 6533 8705 TO 8708 8725 TO 8728 TRAP Y 12 9
4835 TO 4851 4862 TO 4881 5028 TO 5032 5034 TO 5038 5040 TO 5044 5046 5047 -
5128 5129 5131 TO 5135 5137 TO 5141 5143 TO 5147 5294 TO 5340 5977 5982 5987 -
5992 5997 6002 6007 6012 6017 6022 6027 6032 6037 6042 6047 6052 6057 6062 -
6292 6293 6534 6535 8709 TO 8712 8729 TO 8732 TRAP Y 9 6
4888 TO 4904 4915 TO 4934 5048 TO 5052 5054 TO 5058 5060 TO 5064 5066 5067 -
5148 5149 5151 TO 5155 5157 TO 5161 5163 TO 5167 5347 TO 5393 5978 5983 5988 -
5993 5998 6003 6008 6013 6018 6023 6028 6033 6038 6043 6048 6053 6058 6063 -
6294 6295 6536 6537 8713 TO 8716 8733 TO 8736 TRAP Y 6 3
4941 TO 4957 4968 TO 4987 5068 TO 5072 5074 TO 5078 5080 TO 5084 5086 5087 -
5168 5169 5171 TO 5175 5177 TO 5181 5183 TO 5187 5400 TO 5446 5979 5984 5989 -
5994 5999 6004 6009 6014 6019 6024 6029 6034 6039 6044 6049 6054 6059 6064 -
6296 6297 6538 6539 8717 TO 8720 8737 TO 8740 TRAP Y 3 0
*
*
* HORIZONTAL PRESSURE ON - COMMON WALL
*
*
5775 5780 5785 5790 5800 5805 5810 5815 5820 5830 5835 5840 5845 5850 5860 -
5865 5870 5875 5885 5890 5895 5900 5905 5915 5920 5925 5930 5935 5945 5950 -
5955 5960 5965 5970 6298 6299 6540 6541 8741 8742 8751 8752 8761 8762 8771 -
8772 TRAP Y 15 12
5776 5781 5786 5791 5801 5806 5811 5816 5821 5831 5836 5841 5846 5851 5861 -
5866 5871 5876 5886 5891 5896 5901 5906 5916 5921 5926 5931 5936 5946 5951 -
5956 5961 5966 5971 6300 6301 6542 6543 8743 8744 8753 8754 8763 8764 8773 -
8774 TRAP Y 12 9
5777 5782 5787 5792 5802 5807 5812 5817 5822 5832 5837 5842 5847 5852 5862 -
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5867 5872 5877 5887 5892 5897 5902 5907 5917 5922 5927 5932 5937 5947 5952 -
5957 5962 5967 5972 6302 6303 6544 6545 8745 8746 8755 8756 8765 8766 8775 -
8776 TRAP Y 9 6
5778 5783 5788 5793 5803 5808 5813 5818 5823 5833 5838 5843 5848 5853 5863 -
5868 5873 5878 5888 5893 5898 5903 5908 5918 5923 5928 5933 5938 5948 5953 -
5958 5963 5968 5973 6304 6305 6546 6547 8747 8748 8757 8758 8767 8768 8777 -
8778 TRAP Y 6 3
5779 5784 5789 5794 5804 5809 5814 5819 5824 5834 5839 5844 5849 5854 5864 -
5869 5874 5879 5889 5894 5899 5904 5909 5919 5924 5929 5934 5939 5949 5954 -
5959 5964 5969 5974 6306 6307 6548 6549 8749 8750 8759 8760 8769 8770 8779 -
8780 TRAP Y 3 0
*
*
*********************************************************************************
LOAD 19 (EQ-X) EARTHQUAKE IN +X DIR (AEQ-X)
*********************************************************************************
*********************************************************************************
LOAD 20 (EQ-Z) EARTHQUAKE IN +Z DIR (AEQ-Z)
*********************************************************************************
*********************************************************************************
LOAD 21 (TL) TRAFFIC LOAD (QTL)
*********************************************************************************
ELEMENT LOAD
4762 TO 4775 4815 TO 4828 PR -15
*
*
*********************************************************************************
***** ULS LOAD COMBINATIONS
*********************************************************************************
*
*
*********************************************************************************
***** SET A
*********************************************************************************
LOAD 101 (1.21D1 + 1.21D2 + 1.21DO-1 + 1.21DO-2 + 1.21EP2 + 1.65AG + 0.825FR + 1.65TL)
REPEAT LOAD
1 1.21 2 1.21 5 1.21 6 1.21 9 1.21 11 1.65 13 0.825 21 1.65
LOAD 102 (1.21D1 + 1.21D2 + 1.21DO-1 + 1.21DO-2 + 1.21EP2 + 1.65AG + 1.65FR + 1.155TL)
REPEAT LOAD
1 1.21 2 1.21 5 1.21 6 1.21 9 1.21 11 1.65 13 1.65 21 1.155
LOAD 103 (1.21D1 + 1.21D2 + 1.21DO-1 + 1.21DO-2 + 1.21EP2 + 1.65AG + 0.825FR + 1.155TL)
REPEAT LOAD
1 1.21 2 1.21 5 1.21 6 1.21 9 1.21 11 1.65 13 0.825 21 1.155
LOAD 104 (1.21D1 + 1.21D2 + 1.21DO-1 + 1.21DO-2 + 1.21EP2 + 0.825LL + 1.65AG + 0.825FR)
REPEAT LOAD
1 1.21 2 1.21 5 1.21 6 1.21 9 1.21 10 0.825 11 1.65 13 0.825
LOAD 105 (1.21D1 + 1.21D2 + 1.21DO-1 + 1.21DO-2 + 1.21EP2 + 0.825LL + 1.65AG + 1.65FR)
REPEAT LOAD
```

```
1 1.21 2 1.21 5 1.21 6 1.21 9 1.21 10 0.825 11 1.65 13 1.65
LOAD 106 (1.21D1 + 1.21D2 + 1.21DO-1 + 1.21DO-2 + 1.21EP2 + 1.65LL + 1.65AG + 0.825FR)
REPEAT LOAD
1 1.21 2 1.21 5 1.21 6 1.21 9 1.21 10 1.65 11 1.65 13 0.825
LOAD 107 (1.21D1 + 1.21D2 + 1.21DO-1 + 1.21DO-2 + 1.21EP2 + 0.825LL + 1.65AG + 1.65SN +
0.825FR)
REPEAT LOAD
1 1.21 2 1.21 5 1.21 6 1.21 9 1.21 10 0.825 11 1.65 12 1.65 13 0.825
LOAD 108 (1.21D1 + 1.21D2 + 1.21DO-1 + 1.21DO-2 + 1.21EP2 + 0.825LL + 1.65AG + 0.825FR +
1.65WL-X)
REPEAT LOAD
1 1.21 2 1.21 5 1.21 6 1.21 9 1.21 10 0.825 11 1.65 13 0.825 14 1.65
LOAD 109 (1.21D1 + 1.21D2 + 1.21DO-1 + 1.21DO-2 + 1.21EP2 + 0.825LL + 1.65AG + 0.825FR +
1.65WL-Z)
REPEAT LOAD
1 1.21 2 1.21 5 1.21 6 1.21 9 1.21 10 0.825 11 1.65 13 0.825 15 1.65
LOAD 110 (0.9D1 + 0.9D2 + 0.9DO-1 + 0.9DO-2 + 1.21EP2 + 0.825LL + 1.65AG + 0.825FR +
1.65WL-X)
REPEAT LOAD
1 0.9 2 0.9 5 0.9 6 0.9 9 1.21 10 0.825 11 1.65 13 0.825 14 1.65
LOAD 111 (0.9D1 + 0.9D2 + 0.9DO-1 + 0.9DO-2 + 1.21EP2 + 0.825LL + 1.65AG + 0.825FR +
1.65WL-Z)
REPEAT LOAD
1 0.9 2 0.9 5 0.9 6 0.9 9 1.21 10 0.825 11 1.65 13 0.825 15 1.65
LOAD 112 (1.21D1 + 1.21D2 + 1.21DE-1 + 1.21DE-2 + 1.21EP2 + 1.65WL-X)
REPEAT LOAD
1 1.21 2 1.21 3 1.21 4 1.21 9 1.21 14 1.65
LOAD 113 (1.21D1 + 1.21D2 + 1.21DE-1 + 1.21DE-2 + 1.21EP2 + 1.65WL-Z)
REPEAT LOAD
1 1.21 2 1.21 3 1.21 4 1.21 9 1.21 15 1.65
LOAD 114 (0.9D1 + 0.9D2 + 0.9DE-1 + 0.9DE-2 + 1.21EP2 + 1.65WL-X)
REPEAT LOAD
1 0.9 2 0.9 3 0.9 4 0.9 9 1.21 14 1.65
LOAD 115 (0.9D1 + 0.9D2 + 0.9DE-1 + 0.9DE-2 + 1.21EP2 + 1.65WL-Z)
REPEAT LOAD
1 0.9 2 0.9 3 0.9 4 0.9 9 1.21 15 1.65
LOAD 116 (1.21D1 + 1.21D2 + 1.21DE-1 + 1.21DE-2 + 1.21EP2 + 1.65TL)
REPEAT LOAD
1 1.21 2 1.21 3 1.21 4 1.21 9 1.21 21 1.65
LOAD 117 (0.9D1 + 0.9D2 + 0.9DE-1 + 0.9DE-2 + 1.21EP2 + 1.65TL)
REPEAT LOAD
1 0.9 2 0.9 3 0.9 4 0.9 9 1.21 21 1.65
LOAD 118 CAL-1 (1.21D1 + 1.21D2 + 1.21DE-1 + 1.21DO-2 + 1.21EP2 + 1.65FL-1)
REPEAT LOAD
1 1.21 2 1.21 3 1.21 6 1.21 9 1.21 17 1.65
LOAD 119 CAL-2A (1.21D1 + 1.21D2 + 1.21DO-1 + 1.21DE-2 + 1.21EP2 + 1.65FL-2 + 0.825FR)
REPEAT LOAD
1 1.21 2 1.21 5 1.21 4 1.21 9 1.21 18 1.65 13 0.825
```

```
LOAD 120 CAL-2B (1.21D1 + 1.21D2 + 1.21DO-1 + 1.21DE-2 + 1.21EP2 + 1.65FL-2 + 1.65FR)
REPEAT LOAD
1 1.21 2 1.21 5 1.21 4 1.21 9 1.21 18 1.65 13 1.65
LOAD 121 CAL-3(1.21D1 + 1.21D2 + 1.21DE-1 + 1.21DE-2 + 1.21EP2 + 1.65FL-1 + 1.65FL-2)
REPEAT LOAD
1 1.21 2 1.21 3 1.21 4 1.21 9 1.21 17 1.65 18 1.65
LOAD 122 CAL-4 (1.21D1 + 1.21D2 + 1.21DO-1 + 1.21DO-2 + 1.21EP2 + 1.65FL-1 + 1.65FL-2)
*REPEAT LOAD
*1 1.21 2 1.21 5 1.21 6 1.21 9 1.21 17 1.65 18 1.65
LOAD 123 (1.21D1 + 1.21D2 + 1.21DT-1 + 1.21DE-2 + 1.21EP2)
REPEAT LOAD
1 1.21 2 1.21 7 1.21 4 1.21 9 1.21
LOAD 124 (1.21D1 + 1.21D2 + 1.21DT-1 + 1.21DE-2 + 1.21EP2 + 1.65WP-X)
REPEAT LOAD
1 1.21 2 1.21 7 1.21 4 1.21 9 1.21 16 1.65
LOAD 125 (1.21D1 + 1.21D2 + 1.21DE-1 + 1.21DT-2 + 1.21EP2)
REPEAT LOAD
1 1.21 2 1.21 3 1.21 8 1.21 9 1.21
LOAD 126 (1.21D1 + 1.21D2 + 1.21DE-1 + 1.21DT-2 + 1.21EP2 + 1.65WP-X)
REPEAT LOAD
1 1.21 2 1.21 3 1.21 8 1.21 9 1.21 16 1.65
LOAD 127 (1.21D1 + 1.21D2 + 1.21DE-1 + 1.21DE-2 + 1.65FL-1)
REPEAT LOAD
1 1.21 2 1.21 3 1.21 4 1.21 17 1.65
LOAD 128 (1.21D1 + 1.21D2 + 1.21DE-1 + 1.21DE-2 + 1.65FL-2)
REPEAT LOAD
1 1.21 2 1.21 3 1.21 4 1.21 18 1.65
*******************************************************************************
***** SET B1
*******************************************************************************
LOAD 201 (1.485D1 + 1.485D2 + 1.485DO-1 + 1.485DO-2 + 1.485EP2 + 1.65AG + 0.825FR +
1.155TL)
REPEAT LOAD
1 1.485 2 1.485 5 1.485 6 1.485 9 1.485 11 1.65 13 0.825 21 1.155
LOAD 202 (1.485D1 + 1.485D2 + 1.485DO-1 + 1.485DO-2 + 1.485EP2 + 1.65AG + 0.825FR +
1.155TL)
REPEAT LOAD
1 1.485 2 1.485 5 1.485 6 1.485 9 1.485 11 1.65 13 0.825 21 1.155
LOAD 203 (1.485D1 + 1.485D2 + 1.485DO-1 + 1.485DO-2 + 1.485EP2 + 1.65AG + 0.825FR +
1.155TL)
REPEAT LOAD
1 1.485 2 1.485 5 1.485 6 1.485 9 1.485 11 1.65 13 0.825 21 1.155
LOAD 204 (1.485D1 + 1.485D2 + 1.485DO-1 + 1.485DO-2 + 1.485EP2 + 0.825LL + 1.65AG +
0.825FR)
REPEAT LOAD
1 1.485 2 1.485 5 1.485 6 1.485 9 1.485 10 0.825 11 1.65 13 0.825
LOAD 205 (1.485D1 + 1.485D2 + 1.485DO-1 + 1.485DO-2 + 1.485EP2 + 0.825LL + 1.65AG +
0.825FR)
```

```
REPEAT LOAD
1 1.485 2 1.485 5 1.485 6 1.485 9 1.485 10 0.825 11 1.65 13 0.825
LOAD 206 (1.485D1 + 1.485D2 + 1.485DO-1 + 1.485DO-2 + 1.485EP2 + 0.825LL + 1.65AG +
0.825FR)
REPEAT LOAD
1 1.485 2 1.485 5 1.485 6 1.485 9 1.485 10 0.825 11 1.65 13 0.825
LOAD 207 (1.485D1 + 1.485D2 + 1.485DO-1 + 1.485DO-2 + 1.485EP2 + 0.825LL + 1.65AG +
0.825FR)
REPEAT LOAD
1 1.485 2 1.485 5 1.485 6 1.485 9 1.485 10 0.825 11 1.65 13 0.825
LOAD 208 (1.485D1 + 1.485D2 + 1.485DO-1 + 1.485DO-2 + 1.485EP2 + 0.825LL + 1.65AG +
0.825FR)
REPEAT LOAD
1 1.485 2 1.485 5 1.485 6 1.485 9 1.485 10 0.825 11 1.65 13 0.825
LOAD 209 (1.485D1 + 1.485D2 + 1.485DO-1 + 1.485DO-2 + 1.485EP2 + 0.825LL + 1.65AG +
0.825FR)
REPEAT LOAD
1 1.485 2 1.485 5 1.485 6 1.485 9 1.485 10 0.825 11 1.65 13 0.825
LOAD 210 (0.9D1 + 0.9D2 + 0.9DO-1 + 0.9DO-2 + 1.485EP2 + 0.825LL + 1.65AG + 0.825FR)
REPEAT LOAD
1 0.9 2 0.9 5 0.9 6 0.9 9 1.485 10 0.825 11 1.65 13 0.825
LOAD 211 (0.9D1 + 0.9D2 + 0.9DO-1 + 0.9DO-2 + 1.485EP2 + 0.825LL + 1.65AG + 0.825FR)
REPEAT LOAD
1 0.9 2 0.9 5 0.9 6 0.9 9 1.485 10 0.825 11 1.65 13 0.825
LOAD 212 (1.485D1 + 1.485D2 + 1.485DE-1 + 1.485DE-2 + 1.485EP2)
REPEAT LOAD
1 1.485 2 1.485 3 1.485 4 1.485 9 1.485
LOAD 213 (1.485D1 + 1.485D2 + 1.485DE-1 + 1.485DE-2 + 1.485EP2)
REPEAT LOAD
1 1.485 2 1.485 3 1.485 4 1.485 9 1.485
LOAD 214 (0.9D1 + 0.9D2 + 0.9DE-1 + 0.9DE-2 + 1.485EP2)
REPEAT LOAD
1 0.9 2 0.9 3 0.9 4 0.9 9 1.485
LOAD 215 (0.9D1 + 0.9D2 + 0.9DE-1 + 0.9DE-2 + 1.485EP2)
REPEAT LOAD
1 0.9 2 0.9 3 0.9 4 0.9 9 1.485
LOAD 216 (1.485D1 + 1.485D2 + 1.485DE-1 + 1.485DE-2 + 1.485EP2 + 1.155TL)
REPEAT LOAD
1 1.485 2 1.485 3 1.485 4 1.485 9 1.485 21 1.155
LOAD 217 (0.9D1 + 0.9D2 + 0.9DE-1 + 0.9DE-2 + 1.485EP2 + 1.155TL)
REPEAT LOAD
1 0.9 2 0.9 3 0.9 4 0.9 9 1.485 21 1.155
LOAD 218 CAL-1 (1.485D1 + 1.485D2 + 1.485DE-1 + 1.485DO-2 + 1.485EP2 + 1.65FL-1)
REPEAT LOAD
1 1.485 2 1.485 3 1.485 6 1.485 9 1.485 17 1.65
LOAD 219 CAL-2A (1.485D1 + 1.485D2 + 1.485DO-1 + 1.485DE-2 + 1.485EP2 + 1.65FL-2 +
0.825FR)
REPEAT LOAD
```

```
1 1.485 2 1.485 5 1.485 4 1.485 9 1.485 18 1.65 13 0.825
LOAD 220 CAL-2B (1.485D1 + 1.485D2 + 1.485DO-1 + 1.485DE-2 + 1.485EP2 + 1.65FL-2 + 0.825FR)
REPEAT LOAD
1 1.485 2 1.485 5 1.485 4 1.485 9 1.485 18 1.65 13 0.825
LOAD 221 CAL-3 (1.485D1 + 1.485D2 + 1.485DE-1 + 1.485DE-2 + 1.485EP2 + 1.65FL-1 + 1.65FL-2)
REPEAT LOAD
1 1.485 2 1.485 3 1.485 4 1.485 9 1.485 17 1.65 18 1.65
LOAD 222 CAL-4 (1.485D1 + 1.485D2 + 1.485DO-1 + 1.485DO-2 + 1.485EP2 + 1.65FL-1 + 1.65FL-2)
*REPEAT LOAD
*1 1.485 2 1.485 5 1.485 6 1.485 9 1.485 17 1.65 18 1.65
LOAD 223 (1.485D1 + 1.485D2 + 1.485DT-1 + 1.485DE-2 + 1.485EP2)
REPEAT LOAD
1 1.485 2 1.485 7 1.485 4 1.485 9 1.485
LOAD 224 (1.485D1 + 1.485D2 + 1.485DT-1 + 1.485DE-2 + 1.485EP2)
REPEAT LOAD
1 1.485 2 1.485 7 1.485 4 1.485 9 1.485
LOAD 225 (1.485D1 + 1.485D2 + 1.485DE-1 + 1.485DT-2 + 1.485EP2)
REPEAT LOAD
1 1.485 2 1.485 3 1.485 8 1.485 9 1.485
LOAD 226 (1.485D1 + 1.485D2 + 1.485DE-1 + 1.485DT-2 + 1.485EP2)
REPEAT LOAD
1 1.485 2 1.485 3 1.485 8 1.485 9 1.485
LOAD 227 (1.485D1 + 1.485D2 + 1.485DE-1 + 1.485DE-2 + 1.65FL-1)
REPEAT LOAD
1 1.485 2 1.485 3 1.485 4 1.485 17 1.65
LOAD 228 (1.485D1 + 1.485D2 + 1.485DE-1 + 1.485DE-2 + 1.65FL-2)
REPEAT LOAD
1 1.485 2 1.485 3 1.485 4 1.485 18 1.65
*******************************************************************************
***** SET B2
*******************************************************************************
LOAD 301 (1.1748D1 + 1.1748D2 + 1.1748DO-1 + 1.1748DO-2 + 1.1748EP2 + 1.65AG + 0.825FR + 1.65TL)
REPEAT LOAD
1 1.1748 2 1.1748 5 1.1748 6 1.1748 9 1.1748 11 1.65 13 0.825 21 1.65
LOAD 302 (1.1748D1 + 1.1748D2 + 1.1748DO-1 + 1.1748DO-2 + 1.1748EP2 + 1.65AG + 1.65FR + 1.155TL)
REPEAT LOAD
1 1.1748 2 1.1748 5 1.1748 6 1.1748 9 1.1748 11 1.65 13 1.65 21 1.155
LOAD 303 (1.1748D1 + 1.1748D2 + 1.1748DO-1 + 1.1748DO-2 + 1.1748EP2 + 1.65AG + 0.825FR + 1.155TL)
REPEAT LOAD
1 1.1748 2 1.1748 5 1.1748 6 1.1748 9 1.1748 11 1.65 13 0.825 21 1.155
LOAD 304 (1.1748D1 + 1.1748D2 + 1.1748DO-1 + 1.1748DO-2 + 1.1748EP2 + 0.825LL + 1.65AG + 0.825FR)
```

```
REPEAT LOAD
1 1.1748 2 1.1748 5 1.1748 6 1.1748 9 1.1748 10 0.825 11 1.65 13 0.825
LOAD 305 (1.1748D1 + 1.1748D2 + 1.1748DO-1 + 1.1748DO-2 + 1.1748EP2 + 0.825LL + 1.65AG +
1.65FR)
REPEAT LOAD
1 1.1748 2 1.1748 5 1.1748 6 1.1748 9 1.1748 10 0.825 11 1.65 13 1.65
LOAD 306 (1.1748D1 + 1.1748D2 + 1.1748DO-1 + 1.1748DO-2 + 1.1748EP2 + 1.65LL + 1.65AG +
0.825FR)
REPEAT LOAD
1 1.1748 2 1.1748 5 1.1748 6 1.1748 9 1.1748 10 1.65 11 1.65 13 0.825
LOAD 307 (1.1748D1 + 1.1748D2 + 1.1748DO-1 + 1.1748DO-2 + 1.1748EP2 + 0.825LL + 1.65AG +
1.65SN + 0.825FR)
REPEAT LOAD
1 1.1748 2 1.1748 5 1.1748 6 1.1748 9 1.1748 10 0.825 11 1.65 12 1.65 -
13 0.825
LOAD 308 (1.1748D1 + 1.1748D2 + 1.1748DO-1 + 1.1748DO-2 + 1.1748EP2 + 0.825LL + 1.65AG +
0.825FR + 1.65WL-X)
REPEAT LOAD
1 1.1748 2 1.1748 5 1.1748 6 1.1748 9 1.1748 10 0.825 11 1.65 13 0.825 -
14 1.65
LOAD 309 (1.1748D1 + 1.1748D2 + 1.1748DO-1 + 1.1748DO-2 + 1.1748EP2 + 0.825LL + 1.65AG +
0.825FR + 1.65WL-Z)
REPEAT LOAD
1 1.1748 2 1.1748 5 1.1748 6 1.1748 9 1.1748 10 0.825 11 1.65 13 0.825 -
15 1.65
LOAD 310 (0.9D1 + 0.9D2 + 0.9DO-1 + 0.9DO-2 + 1.1748EP2 + 0.825LL + 1.65AG + 0.825FR +
1.65WL-X)
REPEAT LOAD
1 0.9 2 0.9 5 0.9 6 0.9 9 1.1748 10 0.825 11 1.65 13 0.825 14 1.65
LOAD 311 (0.9D1 + 0.9D2 + 0.9DO-1 + 0.9DO-2 + 1.1748EP2 + 0.825LL + 1.65AG + 0.825FR +
1.65WL-Z)
REPEAT LOAD
1 0.9 2 0.9 5 0.9 6 0.9 9 1.1748 10 0.825 11 1.65 13 0.825 15 1.65
LOAD 312 (1.1748D1 + 1.1748D2 + 1.1748DE-1 + 1.1748DE-2 + 1.1748EP2 + 1.65WL-X)
REPEAT LOAD
1 1.1748 2 1.1748 3 1.1748 4 1.1748 9 1.1748 14 1.65
LOAD 313 (1.1748D1 + 1.1748D2 + 1.1748DE-1 + 1.1748DE-2 + 1.1748EP2 + 1.65WL-Z)
REPEAT LOAD
1 1.1748 2 1.1748 3 1.1748 4 1.1748 9 1.1748 15 1.65
LOAD 314 (0.9D1 + 0.9D2 + 0.9DE-1 + 0.9DE-2 + 1.1748EP2 + 1.65WL-X)
REPEAT LOAD
1 0.9 2 0.9 3 0.9 4 0.9 9 1.1748 14 1.65
LOAD 315 (0.9D1 + 0.9D2 + 0.9DE-1 + 0.9DE-2 + 1.1748EP2 + 1.65WL-Z)
REPEAT LOAD
1 0.9 2 0.9 3 0.9 4 0.9 9 1.1748 15 1.65
LOAD 316 (1.1748D1 + 1.1748D2 + 1.1748DE-1 + 1.1748DE-2 + 1.1748EP2 + 1.65TL)
REPEAT LOAD
1 1.1748 2 1.1748 3 1.1748 4 1.1748 9 1.1748 21 1.65
```

```
LOAD 317 (0.9D1 + 0.9D2 + 0.9DE-1 + 0.9DE-2 + 1.1748EP2 + 1.65TL)
REPEAT LOAD
1 0.9 2 0.9 3 0.9 4 0.9 9 1.1748 21 1.65
LOAD 318 CAL-1 (1.1748D1 + 1.1748D2 + 1.1748DE-1 + 1.1748DO-2 + 1.1748EP2 + 1.65FL-1)
REPEAT LOAD
1 1.1748 2 1.1748 3 1.1748 6 1.1748 9 1.1748 17 1.65
LOAD 319 CAL-2A (1.1748D1 + 1.1748D2 + 1.1748DO-1 + 1.1748DE-2 + 1.1748EP2 + 1.65FL-2 +
0.825FR)
REPEAT LOAD
1 1.1748 2 1.1748 5 1.1748 4 1.1748 9 1.1748 18 1.65 13 0.825
LOAD 320 CAL-2B (1.1748D1 + 1.1748D2 + 1.1748DO-1 + 1.1748DE-2 + 1.1748EP2 + 1.65FL-2 +
1.65FR)
REPEAT LOAD
1 1.1748 2 1.1748 5 1.1748 4 1.1748 9 1.1748 18 1.65 13 1.65
LOAD 321 CAL-3 (1.1748D1 + 1.1748D2 + 1.1748DE-1 + 1.1748DE-2 + 1.1748EP2 + 1.65FL-1 +
1.65FL-2)
REPEAT LOAD
1 1.1748 2 1.1748 3 1.1748 4 1.1748 9 1.1748 17 1.65 18 1.65
LOAD 322 CAL-4 (1.1748D1 + 1.1748D2 + 1.1748DO-1 + 1.1748DO-2 + 1.1748EP2 + 1.65FL-1 +
1.65FL-2)
*REPEAT LOAD
*1 1.1748 2 1.1748 5 1.1748 6 1.1748 9 1.1748 17 1.65 18 1.65
LOAD 323 (1.1748D1 + 1.1748D2 + 1.1748DT-1 + 1.1748DE-2 + 1.1748EP2)
REPEAT LOAD
1 1.1748 2 1.1748 7 1.1748 4 1.1748 9 1.1748
LOAD 324 (1.1748D1 + 1.1748D2 + 1.1748DT-1 + 1.1748DE-2 + 1.1748EP2 + 1.65WP-X)
REPEAT LOAD
1 1.1748 2 1.1748 7 1.1748 4 1.1748 9 1.1748 16 1.65
LOAD 325 (1.1748D1 + 1.1748D2 + 1.1748DE-1 + 1.1748DT-2 + 1.1748EP2)
REPEAT LOAD
1 1.1748 2 1.1748 3 1.1748 8 1.1748 9 1.1748
LOAD 326 (1.1748D1 + 1.1748D2 + 1.1748DE-1 + 1.1748DT-2 + 1.1748EP2 + 1.65WP-X)
REPEAT LOAD
1 1.1748 2 1.1748 3 1.1748 8 1.1748 9 1.1748 16 1.65
LOAD 327 (1.1748D1 + 1.1748D2 + 1.1748DE-1 + 1.1748DE-2 + 1.65FL-1)
REPEAT LOAD
1 1.1748 2 1.1748 3 1.1748 4 1.1748 17 1.65
LOAD 328 (1.1748D1 + 1.1748D2 + 1.1748DE-1 + 1.1748DE-2 + 1.65FL-2)
REPEAT LOAD
1 1.1748 2 1.1748 3 1.1748 4 1.1748 18 1.65
*******************************************************************************
***** SET C
*******************************************************************************
LOAD 401 (1.1D1 + 1.1D2 + 1.1DO-1 + 1.1DO-2 + 1.1EP2 + 1.43AG + 0.715FR + 1.43TL)
REPEAT LOAD
1 1.1 2 1.1 5 1.1 6 1.1 9 1.1 11 1.43 13 0.715 21 1.43
LOAD 402 (1.1D1 + 1.1D2 + 1.1DO-1 + 1.1DO-2 + 1.1EP2 + 1.43AG + 1.43FR + 1.001TL)
REPEAT LOAD
```

```
1 1.1 2 1.1 5 1.1 6 1.1 9 1.1 11 1.43 13 1.43 21 1.001
LOAD 403 (1.1D1 + 1.1D2 + 1.1DO-1 + 1.1DO-2 + 1.1EP2 + 1.43AG + 0.715FR + 1.001TL)
REPEAT LOAD
1 1.1 2 1.1 5 1.1 6 1.1 9 1.1 11 1.43 13 0.715 21 1.001
LOAD 404 (1.1D1 + 1.1D2 + 1.1DO-1 + 1.1DO-2 + 1.1EP2 + 0.715LL + 1.43AG + 0.715FR)
REPEAT LOAD
1 1.1 2 1.1 5 1.1 6 1.1 9 1.1 10 0.715 11 1.43 13 0.715
LOAD 405 (1.1D1 + 1.1D2 + 1.1DO-1 + 1.1DO-2 + 1.1EP2 + 0.715LL + 1.43AG + 1.43FR)
REPEAT LOAD
1 1.1 2 1.1 5 1.1 6 1.1 9 1.1 10 0.715 11 1.43 13 1.43
LOAD 406 (1.1D1 + 1.1D2 + 1.1DO-1 + 1.1DO-2 + 1.1EP2 + 1.43LL + 1.43AG + 0.715FR)
REPEAT LOAD
1 1.1 2 1.1 5 1.1 6 1.1 9 1.1 10 1.43 11 1.43 13 0.715
LOAD 407 (1.1D1 + 1.1D2 + 1.1DO-1 + 1.1DO-2 + 1.1EP2 + 0.715LL + 1.43AG + 1.43SN +
0.715FR)
REPEAT LOAD
1 1.1 2 1.1 5 1.1 6 1.1 9 1.1 10 0.715 11 1.43 12 1.43 13 0.715
LOAD 408 (1.1D1 + 1.1D2 + 1.1DO-1 + 1.1DO-2 + 1.1EP2 + 0.715LL + 1.43AG + 0.715FR +
1.43WL-X)
REPEAT LOAD
1 1.1 2 1.1 5 1.1 6 1.1 9 1.1 10 0.715 11 1.43 13 0.715 14 1.43
LOAD 409 (1.1D1 + 1.1D2 + 1.1DO-1 + 1.1DO-2 + 1.1EP2 + 0.715LL + 1.43AG + 0.715FR +
1.43WL-Z)
REPEAT LOAD
1 1.1 2 1.1 5 1.1 6 1.1 9 1.1 10 0.715 11 1.43 13 0.715 15 1.43
LOAD 410 (1D1 + 1D2 + 1DO-1 + 1DO-2 + 1.1EP2 + 0.715LL + 1.43AG + 0.715FR + 1.43WL-X)
REPEAT LOAD
1 1.0 2 1.0 5 1.0 6 1.0 9 1.1 10 0.715 11 1.43 13 0.715 14 1.43
LOAD 411 (1D1 + 1D2 + 1DO-1 + 1DO-2 + 1.1EP2 + 0.715LL + 1.43AG + 0.715FR + 1.43WL-Z)
REPEAT LOAD
1 1.0 2 1.0 5 1.0 6 1.0 9 1.1 10 0.715 11 1.43 13 0.715 15 1.43
LOAD 412 (1.1D1 + 1.1D2 + 1.1DE-1 + 1.1DE-2 + 1.1EP2 + 1.43WL-X)
REPEAT LOAD
1 1.1 2 1.1 3 1.1 4 1.1 9 1.1 14 1.43
LOAD 413 (1.1D1 + 1.1D2 + 1.1DE-1 + 1.1DE-2 + 1.1EP2 + 1.43WL-Z)
REPEAT LOAD
1 1.1 2 1.1 3 1.1 4 1.1 9 1.1 15 1.43
LOAD 414 (1D1 + 1D2 + 1DE-1 + 1DE-2 + 1.1EP2 + 1.43WL-X)
REPEAT LOAD
1 1.0 2 1.0 3 1.0 4 1.0 9 1.1 14 1.43
LOAD 415 (1D1 + 1D2 + 1DE-1 + 1DE-2 + 1.1EP2 + 1.43WL-Z)
REPEAT LOAD
1 1.0 2 1.0 3 1.0 4 1.0 9 1.1 15 1.43
LOAD 416 (1.1D1 + 1.1D2 + 1.1DE-1 + 1.1DE-2 + 1.1EP2 + 1.43TL)
REPEAT LOAD
1 1.1 2 1.1 3 1.1 4 1.1 9 1.1 21 1.43
LOAD 417 (1D1 + 1D2 + 1DE-1 + 1DE-2 + 1.1EP2 + 1.43TL)
REPEAT LOAD
```

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1 1.0 2 1.0 3 1.0 4 1.0 9 1.1 21 1.43
LOAD 418 CAL-1 (1.1D1 + 1.1D2 + 1.1DE-1 + 1.1DO-2 + 1.1EP2 + 1.43FL-1)
REPEAT LOAD
1 1.1 2 1.1 3 1.1 6 1.1 9 1.1 17 1.43
LOAD 419 CAL-2A (1.1D1 + 1.1D2 + 1.1DO-1 + 1.1DE-2 + 1.1EP2 + 1.43FL-2 + 0.715FR)
REPEAT LOAD
1 1.1 2 1.1 5 1.1 4 1.1 9 1.1 18 1.43 13 0.715
LOAD 420 CAL-2B (1.1D1 + 1.1D2 + 1.1DO-1 + 1.1DE-2 + 1.1EP2 + 1.43FL-2 + 1.43FR)
REPEAT LOAD
1 1.1 2 1.1 5 1.1 4 1.1 9 1.1 18 1.43 13 1.43
LOAD 421 CAL-3 (1.1D1 + 1.1D2 + 1.1DE-1 + 1.1DE-2 + 1.1EP2 + 1.43FL-1 + 1.43FL-2)
REPEAT LOAD
1 1.1 2 1.1 3 1.1 4 1.1 9 1.1 17 1.43 18 1.43
LOAD 422 CAL-4 (1.1D1 + 1.1D2 + 1.1DO-1 + 1.1DO-2 + 1.1EP2 + 1.43FL-1 + 1.43FL-2)
*REPEAT LOAD
*1 1.1 2 1.1 5 1.1 6 1.1 9 1.1 17 1.43 18 1.43
LOAD 423 (1.1D1 + 1.1D2 + 1.1DT-1 + 1.1DE-2 + 1.1EP2)
REPEAT LOAD
1 1.1 2 1.1 7 1.1 4 1.1 9 1.1
LOAD 424 (1.1D1 + 1.1D2 + 1.1DT-1 + 1.1DE-2 + 1.1EP2 + 1.43WP-X)
REPEAT LOAD
1 1.1 2 1.1 7 1.1 4 1.1 9 1.1 16 1.43
LOAD 425 (1.1D1 + 1.1D2 + 1.1DE-1 + 1.1DT-2 + 1.1EP2)
REPEAT LOAD
1 1.1 2 1.1 3 1.1 8 1.1 9 1.1
LOAD 426 (1.1D1 + 1.1D2 + 1.1DE-1 + 1.1DT-2 + 1.1EP2 + 1.43WP-X)
REPEAT LOAD
1 1.1 2 1.1 3 1.1 8 1.1 9 1.1 16 1.43
LOAD 427 (1.1D1 + 1.1D2 + 1.1DE-1 + 1.1DE-2 + 1.43FL-1)
REPEAT LOAD
1 1.1 2 1.1 3 1.1 4 1.1 17 1.43
LOAD 428 (1.1D1 + 1.1D2 + 1.1DE-1 + 1.1DE-2 + 1.43FL-2)
REPEAT LOAD
1 1.1 2 1.1 3 1.1 4 1.1 18 1.43
*******************************************************************************
***** SEISMIC
*******************************************************************************
LOAD 501 (1D1 + 1D2 + 1DO-1 + 1DO-2 + 1EP2 + 0.8AG + 0.3FR + 1EQ-X)
REPEAT LOAD
1 1.0 2 1.0 5 1.0 6 1.0 9 1.0 11 0.8 13 0.3 19 1.0
LOAD 502 (1D1 + 1D2 + 1DO-1 + 1DO-2 + 1EP2 + 0.8AG + 0.3FR + 1EQ-Z)
REPEAT LOAD
1 1.0 2 1.0 5 1.0 6 1.0 9 1.0 11 0.8 13 0.3 20 1.0
LOAD 503 (1D1 + 1D2 + 1DO-1 + 1DO-2 + 1EP2 + 0.8AG + 0.3FR + 0.3LL + 1EQ-X)
REPEAT LOAD
1 1.0 2 1.0 5 1.0 6 1.0 9 1.0 11 0.8 13 0.3 10 0.3 19 1.0
LOAD 504 (1D1 + 1D2 + 1DO-1 + 1DO-2 + 1EP2 + 0.8AG + 0.3FR + 0.3LL + 1EQ-Z)
REPEAT LOAD
```

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1 1.0 2 1.0 5 1.0 6 1.0 9 1.0 11 0.8 13 0.3 10 0.3 20 1.0
*
*
********************************************************************************
***** SLS LOAD COMBINATIONS
********************************************************************************
LOAD 1001 (1.0D1 + 1.0D2 + 1.0DO-1 + 1.0DO-2 + 1.0EP2 + 1.0AG + 1.0FR + 1.0TL)
REPEAT LOAD
1 1.0 2 1.0 5 1.0 6 1.0 9 1.0 11 1.0 13 1.0 21 1.0
LOAD 1002 (1.0D1 + 1.0D2 + 1.0DO-1 + 1.0DO-2 + 1.0EP2 + 1.0AG + 1.0FR + 1.155TL)
REPEAT LOAD
1 1.0 2 1.0 5 1.0 6 1.0 9 1.0 11 1.0 13 1.0 21 1.155
LOAD 1003 (1.0D1 + 1.0D2 + 1.0DO-1 + 1.0DO-2 + 1.0EP2 + 1.0AG + 1.0FR + 1.155TL)
REPEAT LOAD
1 1.0 2 1.0 5 1.0 6 1.0 9 1.0 11 1.0 13 1.0 21 1.155
LOAD 1004 (1.0D1 + 1.0D2 + 1.0DO-1 + 1.0DO-2 + 1.0EP2 + 1.0LL + 1.0AG + 1.0FR)
REPEAT LOAD
1 1.0 2 1.0 5 1.0 6 1.0 9 1.0 10 1.0 11 1.0 13 1.0
LOAD 1005 (1.0D1 + 1.0D2 + 1.0DO-1 + 1.0DO-2 + 1.0EP2 + 1.0LL + 1.0AG + 1.0FR)
REPEAT LOAD
1 1.0 2 1.0 5 1.0 6 1.0 9 1.0 10 1.0 11 1.0 13 1.0
LOAD 1006 (1.0D1 + 1.0D2 + 1.0DO-1 + 1.0DO-2 + 1.0EP2 + 1.0LL + 1.0AG + 1.0FR)
REPEAT LOAD
1 1.0 2 1.0 5 1.0 6 1.0 9 1.0 10 1.0 11 1.0 13 1.0
LOAD 1007 (1.0D1 + 1.0D2 + 1.0DO-1 + 1.0DO-2 + 1.0EP2 + 1.0LL + 1.0AG + 1.0SN + 1.0FR)
REPEAT LOAD
1 1.0 2 1.0 5 1.0 6 1.0 9 1.0 10 1.0 11 1.0 12 1.0 13 1.0
LOAD 1008 (1.0D1 + 1.0D2 + 1.0DO-1 + 1.0DO-2 + 1.0EP2 + 1.0LL + 1.0AG + 1.0FR + 1.0WL-X)
REPEAT LOAD
1 1.0 2 1.0 5 1.0 6 1.0 9 1.0 10 1.0 11 1.0 13 1.0 14 1.0
LOAD 1009 (1.0D1 + 1.0D2 + 1.0DO-1 + 1.0DO-2 + 1.0EP2 + 1.0LL + 1.0AG + 1.0FR + 1.0WL-Z)
REPEAT LOAD
1 1.0 2 1.0 5 1.0 6 1.0 9 1.0 10 1.0 11 1.0 13 1.0 15 1.0
LOAD 1010 (0.9D1 + 0.9D2 + 0.9DO-1 + 0.9DO-2 + 1.0EP2 + 1.0LL + 1.0AG + 1.0FR + 1.0WL-X)
REPEAT LOAD
1 0.9 2 0.9 5 0.9 6 0.9 9 1.0 10 1.0 11 1.0 13 1.0 14 1.0
LOAD 1011 (0.9D1 + 0.9D2 + 0.9DO-1 + 0.9DO-2 + 1.0EP2 + 1.0LL + 1.0AG + 1.0FR + 1.0WL-Z)
REPEAT LOAD
1 0.9 2 0.9 5 0.9 6 0.9 9 1.0 10 1.0 11 1.0 13 1.0 15 1.0
LOAD 1012 (1.0D1 + 1.0D2 + 1.0DE-1 + 1.0DE-2 + 1.0EP2 + 1.0WL-X)
REPEAT LOAD
1 1.0 2 1.0 3 1.0 4 1.0 9 1.0 14 1.0
LOAD 1013 (1.0D1 + 1.0D2 + 1.0DE-1 + 1.0DE-2 + 1.0EP2 + 1.0WL-Z)
REPEAT LOAD
1 1.0 2 1.0 3 1.0 4 1.0 9 1.0 15 1.0
LOAD 1014 (0.9D1 + 0.9D2 + 0.9DE-1 + 0.9DE-2 + 1.0EP2 + 1.0WL-X)
REPEAT LOAD
1 0.9 2 0.9 3 0.9 4 0.9 9 1.0 14 1.0
```

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LOAD 1015 (0.9D1 + 0.9D2 + 0.9DE-1 + 0.9DE-2 + 1.0EP2 + 1.0WL-Z)
REPEAT LOAD
1 0.9 2 0.9 3 0.9 4 0.9 9 1.0 15 1.0
LOAD 1016 (1.0D1 + 1.0D2 + 1.0DE-1 + 1.0DE-2 + 1.0EP2 + 1.0TL)
REPEAT LOAD
1 1.0 2 1.0 3 1.0 4 1.0 9 1.0 21 1.0
LOAD 1017 (0.9D1 + 0.9D2 + 0.9DE-1 + 0.9DE-2 + 1.0EP2 + 1.0TL)
REPEAT LOAD
1 0.9 2 0.9 3 0.9 4 0.9 9 1.0 21 1.0
LOAD 1018 CAL-1 (1.0D1 + 1.0D2 + 1.0DE-1 + 1.0DO-2 + 1.0EP2 + 1.0FL-1)
REPEAT LOAD
1 1.0 2 1.0 3 1.0 6 1.0 9 1.0 17 1.0
LOAD 1019 CAL-2A (1.0D1 + 1.0D2 + 1.0DO-1 + 1.0DE-2 + 1.0EP2 + 1.0FL-2 + 1.0FR)
REPEAT LOAD
1 1.0 2 1.0 5 1.0 4 1.0 9 1.0 18 1.0 13 1.0
LOAD 1020 CAL-2B (1.0D1 + 1.0D2 + 1.0DO-1 + 1.0DE-2 + 1.0EP2 + 1.0FL-2 + 1.0FR)
REPEAT LOAD
1 1.0 2 1.0 5 1.0 4 1.0 9 1.0 18 1.0 13 1.0
LOAD 1021 CAL-3(1.0D1 + 1.0D2 + 1.0DE-1 + 1.0DE-2 + 1.0EP2 + 1.0FL-1 + 1.0FL-2)
REPEAT LOAD
1 1.0 2 1.0 3 1.0 4 1.0 9 1.0 17 1.0 18 1.0
LOAD 1022 CAL-4 (1.0D1 + 1.0D2 + 1.0DO-1 + 1.0DO-2 + 1.0EP2 + 1.0FL-1 + 1.0FL-2)
*REPEAT LOAD
*1 1.0 2 1.0 5 1.0 6 1.0 9 1.0 17 1.0 18 1.0
LOAD 1023 (1.0D1 + 1.0D2 + 1.0DT-1 + 1.0DE-2 + 1.0EP2)
REPEAT LOAD
1 1.0 2 1.0 7 1.0 4 1.0 9 1.0
LOAD 1024 (1.0D1 + 1.0D2 + 1.0DT-1 + 1.0DE-2 + 1.0EP2 + 1.0WP-X)
REPEAT LOAD
1 1.0 2 1.0 7 1.0 4 1.0 9 1.0 16 1.0
LOAD 1025 (1.0D1 + 1.0D2 + 1.0DE-1 + 1.0DT-2 + 1.0EP2)
REPEAT LOAD
1 1.0 2 1.0 3 1.0 8 1.0 9 1.0
LOAD 1026 (1.0D1 + 1.0D2 + 1.0DE-1 + 1.0DT-2 + 1.0EP2 + 1.0WP-X)
REPEAT LOAD
1 1.0 2 1.0 3 1.0 8 1.0 9 1.0 16 1.0
LOAD 1027 (1.0D1 + 1.0D2 + 1.0DE-1 + 1.0DE-2 + 1.0FL-1)
REPEAT LOAD
1 1.0 2 1.0 3 1.0 4 1.0 17 1.0
LOAD 1028 (1.0D1 + 1.0D2 + 1.0DE-1 + 1.0DE-2 + 1.0FL-2)
REPEAT LOAD
1 1.0 2 1.0 3 1.0 4 1.0 18 1.0
*******************************************************************************
PERFORM ANALYSIS
*******************************************************************************
DEFINE ENVELOPE
101 TO 128 201 TO 228 301 TO 328 401 TO 428 501 TO 504 ENVELOPE 1 TYPE STRENGTH
1001 TO 1028 ENVELOPE 2 TYPE SERVICEABILITY
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END DEFINE ENVELOPE
FINISH
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