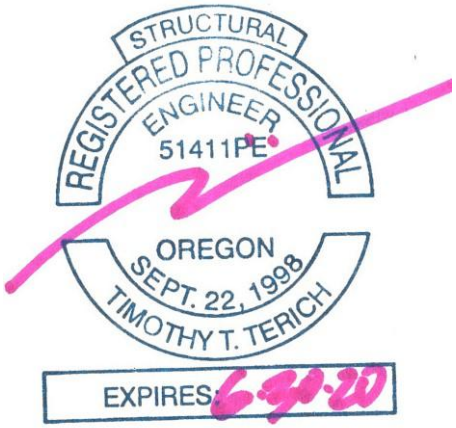
Structural Calculations
For
18s
Permit Revision

Portland, Oregon
Sera Architects

January 7, 2020
Job Number – 18-T066



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CLIENT:

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DATE:

BY:

#15

OUT OF PLANE CONNECTION OF 8TH FLOOR WALLS AT ROOF

WL = -44PSF (0.6) = -26.4PSF

LOAD AT EACH TRUSS = 264PSF (10½) (2') = 264#

0.148 x 3" NAILS IL SHEAR CAPACITY = 125# (0.83) (1.6) = 139#/NAIL
↑ LEN

USE (3) 0.148"x3" TOE-NAILS ∴ (3)139 = 417#

ASSUMED 3x11 SIDE-MEMBER TO BE CONSERVATIVE

417 + 110 = 527# > 264# ∴ OKAY
1125A

#16

BLOCKING DOES NOT NEED TO ATTACH TO DBL TOP PL, SHEAR TRANSFER IS THROUGH SHEATHING

7/8" SHEATHING w/ 10d @ 2" OC
⇒ 1,640 PLF/2 = 820PLF

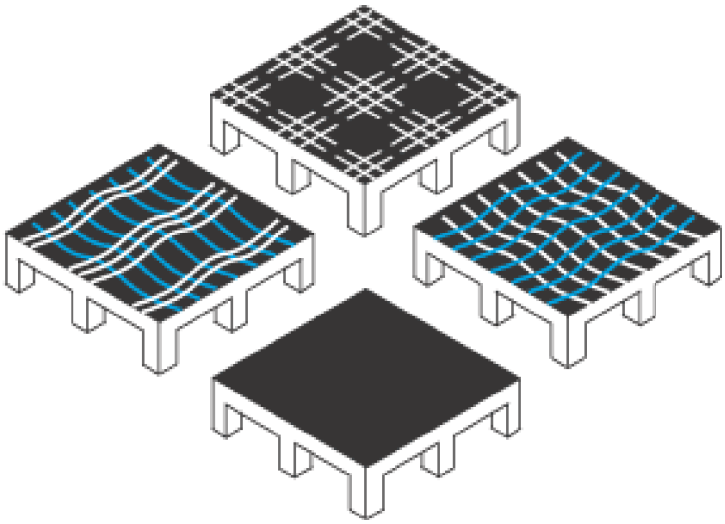
820PLF [(12' − 5.5' / 2)] (1.5) = 4,875'
Lattice

820PLF (4.875') = 3,998.5#

THESE STRAPS JUST TRANSFER LOAD ACROSS CORRIDOR

7/8" SHEATHING 10d @ 6" OC
⇒ 640 PLF/2 = 320PLF

320PLF (12 − 3.25') = 2,800# < 3,998# ∴ OKAY



Level 2.23.cpt
1/7/2020

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Units

Geometry Units

Plan Dimensions: feet
Angles: degrees

Slab Thickness: inches
Elevations: inches

Support Dimensions: inches
Support Height: feet

Loading and Reaction Units

Point Force: Kips
- Report As Zero: 0 Kips

Point Moment: kip-ft
- Report As Zero: 0 kip-ft

Line Force: kips/ft
- Report As Zero: 0 kips/ft

Line Moment: Kips
- Report As Zero: 0 Kips

Area Force: psf
- Report As Zero: 0 psf

Area Moment: #/foot
- Report As Zero: 0 #/foot

Spring and Stiffness Units

Point Force Spring: kips/in
Point Moment Spring: k-ft/°

Line Force Spring: ksi
Line Moment Spring: k/°

Area Force Spring: pci
Area Moment Spring: k/ft°

Slab Analysis Units

Force: Kips
- Report As Zero: 0 Kips

Force Per Width: kips/ft
- Report As Zero: 0 kips/ft

Moment: kip-ft
- Report As Zero: 0 kip-ft

Moment Per Width: Kips
- Report As Zero: 0 Kips

Concrete Stress: psi
- Report As Zero: 0 psi

Deflection: inches
- Report As Zero: 0 inches

Materials Units

Concrete Volume: yd^3
Reinforcement Weight: tons
PT Weight: pounds

Reinforcing Area: in^2
Tendon Profile: inches
Cover: inches

PT Force: Kips
Reinforcing Stress: ksi

Miscellaneous Units

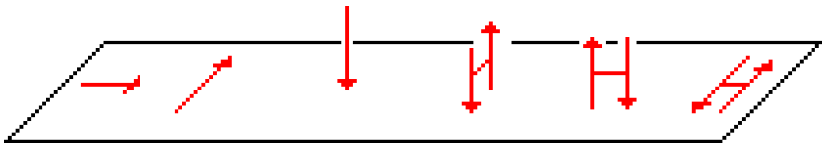
Floor Area: ft^2
Tendon Angles (for friction): radians

Density: pcf

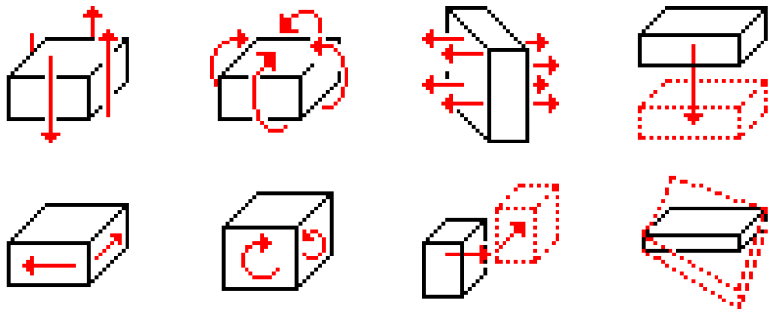
Elongations: inches

Signs

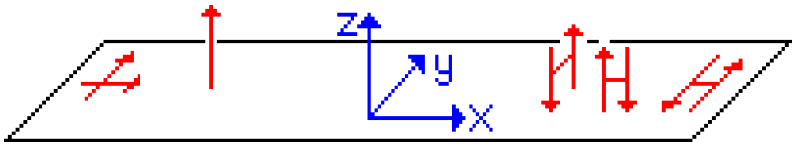
Positive Loads



Positive Analysis



Positive Reactions



Materials

Concrete Mix

Mix Name	Density (pcf)	Density For Loads (pcf)	f'ci (psi)	f'c (psi)	fcui (psi)	fcu (psi)	Poissons Ratio	Ec Calc	User Eci (psi)	User Ec (psi)
3000 psi	150	150	3000	3000	3725	3725	0.2	Code	2500000	3000000
4000 psi	150	150	3000	4000	3725	4975	0.2	Code	2500000	3000000
5000 psi	150	150	3000	5000	3725	6399	0.2	Code	2500000	3000000
6000 psi	150	150	3000	6000	3725	7450	0.2	Code	2500000	3000000

PT Systems

System Name	Type	Aps (in^2)	Eps (ksi)	fse (ksi)	fpy (ksi)	fpu (ksi)	Duct Width (inches)	Strands Per Duct	Min Radius (feet)
½" Unbonded	unbonded	0.153	28000	175	243	270	0.5	1	6
½" Bonded	bonded	0.153	28000	160	243	270	3	4	6
0.6" Unbonded	unbonded	0.217	28000	175	243	270	0.6	1	8
0.6" Bonded	bonded	0.217	28000	160	243	270	4	4	8

PT Stressing Parameters

System Name	Jacking Stress (ksi)	Seating Loss (inches)	Anchor Friction	Wobble Friction (1/feet)	Angular Friction (1/radians)	Long-Term Losses (ksi)
½" Unbonded	216	0.25	0	0.0014	0.07	22
½" Bonded	216	0.25	0.02	0.001	0.2	22
0.6" Unbonded	216	0.25	0	0.0014	0.07	22
0.6" Bonded	216	0.25	0.02	0.001	0.2	22

Reinforcing Bars

Bar Name	As (in^2)	Es (ksi)	Fy (ksi)	Coating	Straight Ld/Db	90 Hook Ld/Db	180 Hook Ld/Db
#3	0.11	29000	60	None	Code	Code	Code
#4	0.2	29000	60	None	Code	Code	Code
#5	0.31	29000	60	None	Code	Code	Code
#6	0.44	29000	60	None	Code	Code	Code
#7	0.6	29000	60	None	Code	Code	Code
#8	0.79	29000	60	None	Code	Code	Code
#9	1	29000	60	None	Code	Code	Code
#10	1.27	29000	60	None	Code	Code	Code
#11	1.56	29000	60	None	Code	Code	Code

Materials (2)

SSR Systems

SSR System Name	*Stud Area (in²)*	*Head Area (in²)*	*Min Clear Head Spacing (inches)*	*Specified Stud Spacing (inches)*	*Fy (ksi)*	*Stud Spacing Rounding Increment (inches)*	*Min Studs Per Rail*	*System Type*
3/8" SSR	0.11	1.11	0.5	None	50	0.25	2	Rail
1/2" SSR	0.196	1.96	0.5	None	50	0.25	2	Rail
5/8" SSR	0.307	3.07	0.5	None	50	0.25	2	Rail
3/4" SSR	0.442	4.42	0.5	None	50	0.25	2	Rail
Ancon Shearfix Auto-Size	0.1217	1.096	0.5906	None	72.52	0.03937	2	Rail
Ancon Shearfix 10 mm	0.1217	1.096	0.5906	None	72.52	0.03937	2	Rail
Ancon Shearfix 12 mm	0.1753	1.578	0.5906	None	72.52	0.03937	2	Rail
Ancon Shearfix 14 mm	0.2386	2.147	0.5906	None	72.52	0.03937	2	Rail
Ancon Shearfix 16 mm	0.3116	2.805	0.5906	None	72.52	0.03937	2	Rail
Ancon Shearfix 20 mm	0.4869	4.383	0.5906	None	72.52	0.03937	2	Rail
Ancon Shearfix 24 mm	0.7012	6.311	0.5906	None	72.52	0.03937	2	Rail

Loadings

Loading Name	*Type*	*Analysis*	*On-Pattern Factor*	*Off-Pattern Factor*
Self-Dead Loading	Self-Weight	Normal	1	1
Balance Loading	Balance	Normal	1	1
Hyperstatic Loading	Hyperstatic	Hyperstatic	1	1
Temporary Construction (At Stressing) Loading	Stressing Dead	Normal	1	1
Other Dead Loading	Dead	Normal	1	1
Live (Reducible) Loading	Live (Reducible)	Normal	1	0
Live (Unreducible) Loading	Live (Unreducible)	Normal	1	0
Live (Storage) Loading	Live (Storage)	Normal	1	0
Live (Parking) Loading	Live (Parking)	Normal	1	0
Live (Roof) Loading	Live (Roof)	Normal	1	0
Snow Loading	Snow	Normal	1	1
Seismic E/W	Ultimate Seismic 1 (transfer)	Normal	1	0
Seismic N/S	Ultimate Seismic 1 (transfer)	Normal	1	0

Load Combinations

All Dead LC

Active Design Criteria: <none>
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1	1
Other Dead Loading	1	1

Dead + Balance LC

Active Design Criteria: <none>
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1	1
Balance Loading	1	1
Other Dead Loading	1	1

Initial Service LC

Active Design Criteria: Initial Service Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1	1
Balance Loading	1.13	1.13
Temporary Construction (At Stressing) Loading	1	1

Service LC: D + L

Active Design Criteria: User Minimum Design, Code Minimum Design, Service Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1	1
Balance Loading	1	1
Other Dead Loading	1	1
Live (Reducible) Loading	1	0
Live (Unreducible) Loading	1	0
Live (Storage) Loading	1	0
Live (Parking) Loading	1	0

Service LC: D + Lr

Active Design Criteria: User Minimum Design, Code Minimum Design, Service Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1	1
Balance Loading	1	1
Other Dead Loading	1	1
Live (Roof) Loading	1	0

Load Combinations (2)

Service LC: D + S

Active Design Criteria: User Minimum Design, Code Minimum Design, Service Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1	1
Balance Loading	1	1
Other Dead Loading	1	1
Snow Loading	1	0

Service LC: D + 0.75L + 0.75Lr

Active Design Criteria: User Minimum Design, Code Minimum Design, Service Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1	1
Balance Loading	1	1
Other Dead Loading	1	1
Live (Reducible) Loading	0.75	0
Live (Unreducible) Loading	0.75	0
Live (Storage) Loading	0.75	0
Live (Parking) Loading	0.75	0
Live (Roof) Loading	0.75	0

Service LC: D + 0.75L + 0.75S

Active Design Criteria: User Minimum Design, Code Minimum Design, Service Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1	1
Balance Loading	1	1
Other Dead Loading	1	1
Live (Reducible) Loading	0.75	0
Live (Unreducible) Loading	0.75	0
Live (Storage) Loading	0.75	0
Live (Parking) Loading	0.75	0
Snow Loading	0.75	0

Sustained Service LC

Active Design Criteria: Sustained Service Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1	1
Balance Loading	1	1
Other Dead Loading	1	1
Live (Reducible) Loading	0.5	0.5
Live (Unreducible) Loading	0.5	0.5
Live (Storage) Loading	1	1
Live (Parking) Loading	0.5	0.5
Live (Roof) Loading	0.5	0.5

Load Combinations (3)

Factored LC: 1.4D

Active Design Criteria: User Minimum Design, Code Minimum Design, Strength Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.4	0.9
Hyperstatic Loading	1	1
Other Dead Loading	1.4	0.9

Factored LC: 1.2D + 1.6L + 0.5Lr

Active Design Criteria: User Minimum Design, Code Minimum Design, Strength Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.2	0.9
Hyperstatic Loading	1	1
Other Dead Loading	1.2	0.9
Live (Reducible) Loading	1.6	0
Live (Unreducible) Loading	1.6	0
Live (Storage) Loading	1.6	0
Live (Parking) Loading	1.6	0
Live (Roof) Loading	0.5	0

Factored LC: 1.2D + f1L + 1.6Lr

Active Design Criteria: User Minimum Design, Code Minimum Design, Strength Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.2	0.9
Hyperstatic Loading	1	1
Other Dead Loading	1.2	0.9
Live (Reducible) Loading	0.5	0
Live (Unreducible) Loading	1	0
Live (Storage) Loading	1	0
Live (Parking) Loading	1	0
Live (Roof) Loading	1.6	0

Factored LC: 1.2D + 1.6L + 0.5S

Active Design Criteria: User Minimum Design, Code Minimum Design, Strength Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.2	0.9
Hyperstatic Loading	1	1
Other Dead Loading	1.2	0.9
Live (Reducible) Loading	1.6	0
Live (Unreducible) Loading	1.6	0
Live (Storage) Loading	1.6	0
Live (Parking) Loading	1.6	0
Snow Loading	0.5	0

Load Combinations (4)

Factored LC: 1.2D + f1L + 1.6S

Active Design Criteria: User Minimum Design, Code Minimum Design, Strength Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.2	0.9
Hyperstatic Loading	1	1
Other Dead Loading	1.2	0.9
Live (Reducible) Loading	0.5	0
Live (Unreducible) Loading	1	0
Live (Storage) Loading	1	0
Live (Parking) Loading	1	0
Snow Loading	1.6	0

Long Term deflection

Active Design Criteria: <none>
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	3.35	3.35
Balance Loading	3.35	3.35
Other Dead Loading	3.35	3.35
Live (Unreducible) Loading	2	2
Snow Loading	1	1

Earthquake N-S: (1.2+.2*Sds)D + 2.5E + 0.5L+0.2S

Active Design Criteria: Strength Design, Code Minimum Design, User Minimum Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.344	1.344
Hyperstatic Loading	1	1
Other Dead Loading	1.344	1.344
Live (Unreducible) Loading	0.5	0.5
Snow Loading	0.2	0.2
Seismic N/S	2.5	2.5

Earthquake N-S: (0.9-0.2*Sds)D + 2.5E

Active Design Criteria: Strength Design, Code Minimum Design, User Minimum Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	0.756	0.756
Hyperstatic Loading	1	1
Other Dead Loading	0.756	0.756
Seismic N/S	2.5	2.5

Load Combinations (5)

Earthquake E-W: (1.2+0.2*Sds)D + 2.5E + 0.5L+0.2S

Active Design Criteria: Strength Design, Code Minimum Design, User Minimum Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.344	1.344
Hyperstatic Loading	1	1
Other Dead Loading	1.344	1.344
Live (Unreducible) Loading	0.5	0.5
Snow Loading	0.2	0.2
Seismic E/W	2.5	2.5

Earthquake E-W: (0.9-0.2*Sds)D + 2.5E

Active Design Criteria: Strength Design, Code Minimum Design, User Minimum Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	0.756	0.756
Hyperstatic Loading	1	1
Other Dead Loading	0.756	0.756
Seismic E/W	2.5	2.5

Earthquake N-S: (1.0+0.14*Sds)D + 1.75E

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.101	1.101
Balance Loading	1	1
Other Dead Loading	1.101	1.101
Seismic N/S	1.75	1.75

Earthquake N-S: (1.0+0.105*Sds)D + 1.3125E + 0.75L + 0.75S

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.076	1.076
Balance Loading	1	1
Other Dead Loading	1.076	1.076
Live (Unreducible) Loading	0.75	0.75
Snow Loading	0.75	0.75
Seismic N/S	1.313	1.313

Load Combinations (6)

Earthquake N-S: (0.6-0.14*Sds)D + 1.75E

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	0.499	0.499
Balance Loading	1	1
Other Dead Loading	0.899	0.899
Seismic N/S	1.75	1.75

Earthquake E-W: (1.0+0.14*Sds)D + 1.75E

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.101	1.101
Balance Loading	1	1
Other Dead Loading	1.101	1.101
Seismic E/W	1.75	1.75

Earthquake E-W: (1.0+0.105*Sds)D + 1.3125E + 0.75L+0.75S

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.076	1.076
Balance Loading	1	1
Other Dead Loading	1.076	1.076
Live (Unreducible) Loading	0.75	0.75
Snow Loading	0.75	0.75
Seismic E/W	1.313	1.313

Earthquake N-S: (1.2+0.2*Sds)D - 2.5E + .5L + 0.2S

Active Design Criteria: Strength Design, Code Minimum Design, User Minimum Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.344	1.344
Hyperstatic Loading	1	1
Other Dead Loading	1.344	1.344
Live (Unreducible) Loading	0.5	0.5
Snow Loading	0.2	0.2
Seismic N/S	-2.5	-2.5

Load Combinations (7)

Earthquake N-S: (0.9-0.2*Sds)D - 2.5E

Active Design Criteria: Strength Design, Code Minimum Design, User Minimum Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	0.756	0.756
Hyperstatic Loading	1	1
Other Dead Loading	0.756	0.756
Seismic N/S	-2.5	-2.5

Earthquake E-W: (1.2+0.2*Sds)D - 2.5E + .5L + 0.2S

Active Design Criteria: Strength Design, Code Minimum Design, User Minimum Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.344	1.344
Hyperstatic Loading	1	1
Other Dead Loading	1.344	1.344
Live (Unreducible) Loading	0.5	0.5
Snow Loading	0.2	0.2
Seismic E/W	-2.5	-2.5

Earthquake E-W: (0.9-0.2*Sds)D - 2.5E

Active Design Criteria: Strength Design, Code Minimum Design, User Minimum Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	0.756	0.756
Hyperstatic Loading	1	1
Other Dead Loading	0.756	0.756
Seismic E/W	-2.5	-2.5

Earthquake N-S: (1.0+0.14*Sds)D - 1.75E

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.101	1.101
Balance Loading	1	1
Other Dead Loading	1.101	1.101
Seismic N/S	-1.75	-1.75

Load Combinations (8)

Earthquake N-S: (1.0+0.105*Sds)D - 1.3125E + 0.75L+.75S

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.076	1.076
Balance Loading	1	1
Other Dead Loading	1.076	1.076
Live (Unreducible) Loading	0.75	0.75
Snow Loading	0.75	0.75
Seismic N/S	-1.313	-1.313

Earthquake N-S: (0.6-0.14*Sds)D - 1.75E

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	0.499	0.499
Balance Loading	1	1
Other Dead Loading	0.899	0.899
Seismic N/S	-1.75	-1.75

Earthquake E-W: (1.0+0.14*Sds)D - 1.75E

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.101	1.101
Balance Loading	1	1
Other Dead Loading	1.101	1.101
Seismic E/W	-1.75	-1.75

Earthquake E-W: (0.6-0.14*Sds)D + 1.75E

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	0.499	0.499
Balance Loading	1	1
Other Dead Loading	0.899	0.899
Seismic E/W	1.75	1.75

Earthquake E-W: (0.6-0.14*Sds)D - 1.75E

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	0.499	0.499
Balance Loading	1	1
Other Dead Loading	0.899	0.899
Seismic E/W	-1.75	-1.75

Load Combinations (9)

Earthquake E-W: (1.0+0.105*Sds)D - 1.3125E + 0.75L + 0.75S

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.076	1.076
Balance Loading	1	1
Other Dead Loading	1.076	1.076
Live (Unreducible) Loading	0.75	0.75
Snow Loading	0.75	0.75
Seismic E/W	-1.313	-1.313

Design Rules

Code Minimum Desig

318-11 Min. Reinforcement

User Minimum Desig

Specified Min. Reinforcement

Initial Service Desig

318-11 Initial Service Design

Service Design

318-11 Service Design
Include detailed section analysis

Sustained Service Desig

318-11 Sustained Service Design

Strength Design

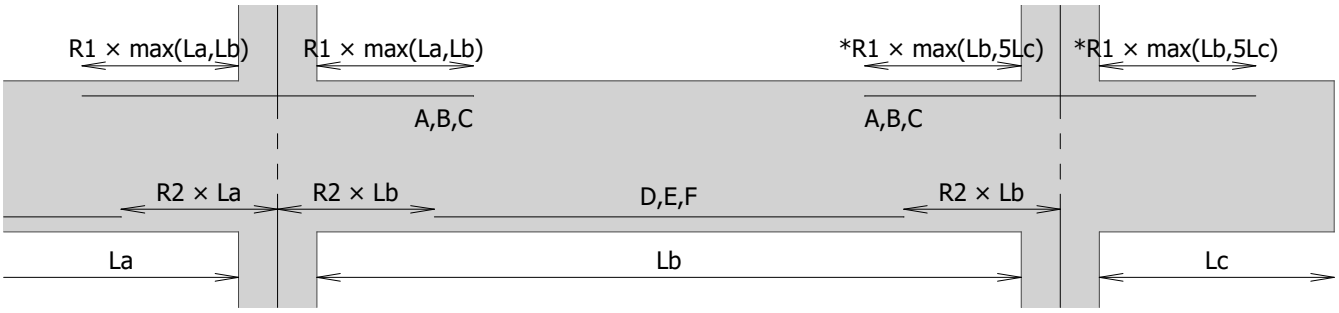
318-11 Strength Design
Punching Shear Design

Ductility Desig

318-11 Ductility Design

Detailing Rules

Custom Span Detailing Rules



Rule Name	*A Fraction*	*A R1*	*B Fraction*	*B R1*	*C Fraction*	*C R1*	*D Fraction*	*D R2*	*E Fraction*	*E R2*	*F Fraction*	*F R2*
None	0	0	0	0	0	0	0	0	0	0	0	0

"A", "B" and "C", are support reinforcement sets, based on the peak reinforcement in the support zone.
"D", "E" and "F", are span reinforcement sets, based on the peak reinforcement in the span zone.
"*R1" is never taken as greater than 0.2 when multiplied by Lc (or Lcc).
"Fraction" is the ratio of set reinforcement to peak reinforcement. It is always in the 0.0 to 1.0 range.

Load History

Load History Step Name	*Load Combination*	*Duration (days)*	*Total Age (days)*
Maximum Short Term Load	Service LC: D + L	30	33
Sustained Load	Sustained Service LC	5000	5033
Final Instantaneous Load	Service LC: D + L	0	5033

Mesh Input: Walls Below Table

Number	*Location feet*	*Mix*	*Fixed Near*	*Fixed Far*	*Comp.*	*Height feet*	*Thickness inches*
1	(-163.8,-2)(-192.2,-2.005)	5000 psi	false	false	true	11.5	4
2	(-161.7,-94.62)(-161.7,-5204)	psi	false	false	true	11	16
3	(-158.1,-74.12)(-158.1,-5201)	psi	false	false	true	11	16
4	(-139.7,-83.12)(-162.3,-5003)	psi	false	false	true	11	12
5	(-139.7,-94.11)(-162.3,-5403)	psi	false	false	true	11	12
6	(-136.1,-62.61)(-158.8,-5207)	psi	false	false	true	11	12
7	(-140.3,-94.58)(-140.3,-5206)	psi	false	false	true	11	16
8	(-136.8,-74.05)(-136.8,-5202)	psi	false	false	true	11	16
9	(-56.8,-65.35)(-56.84,-7024)	psi	false	false	true	11	16
10	(-27.39,-1.995)(-27.39,-1104)	psi	false	false	true	11.5	16
11	(-0.6634,-1.994)(-28.145,-1.995)	psi	false	false	true	11.5	4

Mesh Input: Walls Below Table (2)

ess

Shear Wall	*Use Spec LLR Params*	*Spec. LLR Levels*	*Spec. Trib. Area* *ft²*	*Spec. Infl. Area* *ft²*	*Max LLR* *%*
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40

Mesh Input: Columns Below Table

Number	*Location feet*	*Mix*	*Fixed Near*	*Fixed Far*	*Comp.*	*Height feet*	*B inches*	*D inches*
1	(-200.6,-89.05)	5000 psi	true	true	true	11.5	24	18
2	(-198,-65.18)	5000 psi	true	true	true	11.5	24	18
3	(-195.5,-41.31)	5000 psi	true	true	true	11.5	24	18
4	(-193,-17.44)	5000 psi	true	true	true	11.5	24	18
5	(-181.4,-44.55)	5000 psi	true	true	true	11.5	24	18
6	(-177,-67.39)	5000 psi	true	true	true	11.5	24	18
7	(-176.8,-92.28)	5000 psi	true	true	true	11.5	24	18
8	(-164.9,-47.89)	5000 psi	true	true	true	11.5	24	18
9	(-164.6,-22.53)	5000 psi	true	true	true	11.5	24	18
10	(-145.3,-22.83)	5000 psi	true	true	true	11.5	24	18
11	(-138.3,-51.38)	5000 psi	true	true	true	11.5	24	18
12	(-120.6,-101.9)	5000 psi	true	true	true	11.5	24	18
13	(-118.9,-75.16)	5000 psi	true	true	true	11.5	24	18
14	(-118.4,-52.35)	5000 psi	true	true	true	11.5	18	24
15	(-118.3,-22.84)	5000 psi	true	true	true	11.5	24	18
16	(-109.7,-60.83)	5000 psi	true	true	true	11.5	24	18
17	(-99.8,-22.83)	5000 psi	true	true	true	11.5	24	18
18	(-94.99,-75.16)	5000 psi	true	true	true	11.5	24	18
19	(-94.55,-101.9)	5000 psi	true	true	true	11.5	24	18
20	(-87.38,-47.22)	5000 psi	true	true	true	11.5	24	18
21	(-85.98,-66.03)	5000 psi	true	true	true	11.5	24	18
22	(-72.8,-22.83)	5000 psi	true	true	true	11.5	24	18
23	(-71.38,-109.1)	5000 psi	true	true	true	11.5	18	24
24	(-70.75,-75.58)	5000 psi	true	true	true	11.5	24	18
25	(-67.92,-66.08)	5000 psi	true	true	true	11.5	24	18
26	(-65.26,-94)	5000 psi	true	true	true	11.5	24	18
27	(-60.2,-44.83)	5000 psi	true	true	true	11.5	24	18
28	(-45.78,-22.84)	5000 psi	true	true	true	11.5	24	18
29	(-41.7,-44.83)	5000 psi	true	true	true	11.5	24	18
30	(-19.85,-17.33)	5000 psi	true	true	true	11.5	24	18
31	(-14.45,-46.55)	5000 psi	true	true	true	11.5	24	18
32	(-5.378,-16.83)	5000 psi	true	true	true	11.5	24	18

Mesh Input: Columns Below Table (2)

Angle degrees	*Roller*	*I Factor*	*Use Spec LLR Params*	*Spec. LLR Levels*	*Spec. Trib. Area ft²*	*Spec. Infl. Area ft²*
84	false	1	false	1	0	0
84	false	1	false	1	0	0
84	false	1	false	1	0	0
84	false	1	false	1	0	0
-6	false	1	false	1	0	0
84	false	1	false	1	0	0
-6	false	1	false	1	0	0
84	false	1	false	1	0	0
90	false	1	false	1	0	0
90	false	1	false	1	0	0
90	false	1	false	1	0	0
90	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
90	false	1	false	1	0	0
90	false	1	false	1	0	0
90	false	1	false	1	0	0
0	false	1	false	1	0	0
90	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
90	false	1	false	1	0	0
22	false	1	false	1	0	0
90	false	1	false	1	0	0
0	false	1	false	1	0	0
90	false	1	false	1	0	0
90	false	1	false	1	0	0
90	false	1	false	1	0	0
90	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0

Mesh Input: Columns Below Table (3)

Infl. Area	Max LLR %
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40

Mesh Input: Slab Areas Table

Number	*Location feet*	*Mix*	*Thickness inches*	*TOC inches*	*Priority*	*Behavior*	*R-Axis degrees*
1	(-136.4,-53.48)(-136.4,-49.49)(-140.4,-49.49)(-140.4,-53.48)	5000 psi	10	0	2	two-way slab	0
2	(-192.6,-1.5)(-163.8,-1.5)(-163.8,-21.83)(-28.14,-21.83)(-28.14,-1.253)(-0.2917,-1.253)(-0.2917,-5.644)(-2.458,-5.644)(-2.458	5000 psi	18	0	2	two-way slab	0
3	(-116.5,-54.46)(-116.5,-50.47)(-120.5,-50.47)(-120.5,-54.46)	5000 psi	10	0	2	two-way slab	0
4	(-76.04,-102.9)(-84.79,-102.9)(-139.7,-88.1)(-139.7,-94.58)(-139.7,-95.23)(-136.5,-102.9)(-130.2,-102.9)	5000 psi	13	0	2	two-way slab	0
5	(-86.31,-49.22)(-86.31,-45.23)(-90.29,-45.23)(-90.29,-49.22)	5000 psi	10	0	2	two-way slab	0

Mesh Input: Slab Areas Table (2)

s	KMr	KMs	KMrs	KFr	KFs
	1	1	1	1	1
	1	1	1	1	1
	1	1	1	1	1
	1	1	1	1	1
	1	1	1	1	1

Mesh Input: Slab Areas Table (3)

KVrs
1
1
1
1
1

Mesh Input: Beams Table

Number	Location feet	Mix	Thickness inches	TOC inches	Priority	Mesh As Slab	Width inches
1	(-141.7,-82.62)(-141.7,-77.09)(-143.7,-82.62)(-143.7,-77.09)	5000 psi	11	3	3	false	48
2	(-139.7,-79.1)(-81.13,-79.1)(-139.7,-77.1)(-81.13,-77.1)(-139.7,-81.1)(-81.13,-81.1)	5000 psi	11	5	5	false	48
3	(-74.18,-102.2)(-83,-80.2)(-76.04,-102.9)(-84.86,-80.96)(-72.33,-101.54)(-81.15,-79.46)	2000 psi	19	4	4	false	48
4	(-100.6,-22.83)(-45.03,-22.84)(-100.6,-23.83)(-45.03,-23.84)	2000 psi	28	4	4	true	24
5	(-45.05,-22.84)(-28.1,-22.84)(-45.05,-22.84)(-28.1,-21.84)(-45.05,-23.84)(-28.1,-23.84)	2000 psi	26	1	1	true	24
6	(-14.45,-47.3)(-14.45,-20.01)(-15.45,-47.3)(-15.45,-20.01)	5000 psi	37	2	2	false	24
7	(-14.45,-20.01)(-14.45,-16.01)(-15.45,-20.01)(-15.45,-16.01)	5000 psi	26	2	2	true	24
8	(-28.14,-18.02)(0,-18)(-28.14,-16.02)(-0.0001312,-16)(-28.14,-20.02)(0.0001312,-20)	2000 psi	12	1	1	true	48

Mesh Input: Beams Table (2)

Width inches	Behavior	KMr	KMs	KMrs	KFr	KFs
	no-torsion two-way slab	1	1	0.001	1	1
	no-torsion two-way slab	1	1	0.001	1	1
	no-torsion two-way slab	1	1	0.001	1	1
	no-torsion two-way slab	1	1	0.001	1	1
	no-torsion two-way slab	1	1	0.001	1	1
	no-torsion two-way slab	1	1	0.001	1	1
	no-torsion two-way slab	1	1	0.001	1	1
	no-torsion two-way slab	1	1	0.001	1	1

Mesh Input: Beams Table (3)

KVrs
1
1
1
1
1
1
1
1

Mesh Input: Standard Plan

Mesh Input: Beams; Beam Dimensions; Beam Priorities; Slab Areas; Slab AreaT hicknesses; Slab Area Elevations; Slab Openings; Point Supports; Point Support Icons; Line Supports; Line Support Icons; Walls Above; Walls Below; Wall Thicknesses; Columns Above; Columns Bel
Drawing Import: User Notes; User Lines; User Dimensions; S-BEAM; S-FNDN; S-DETL-CONC; S-ANNO-SYMB; A-GENM; S-GRID; S-COLS; S-GRID-IDEN; A-DETL; S-ANNO-CUTL; 0; A-DETL-MBND; G-ANNO-SYMB; S-COLS-SYMB; 1803002_A_18S_VE_UPDATE_R17_rvt-1-PT Floor P
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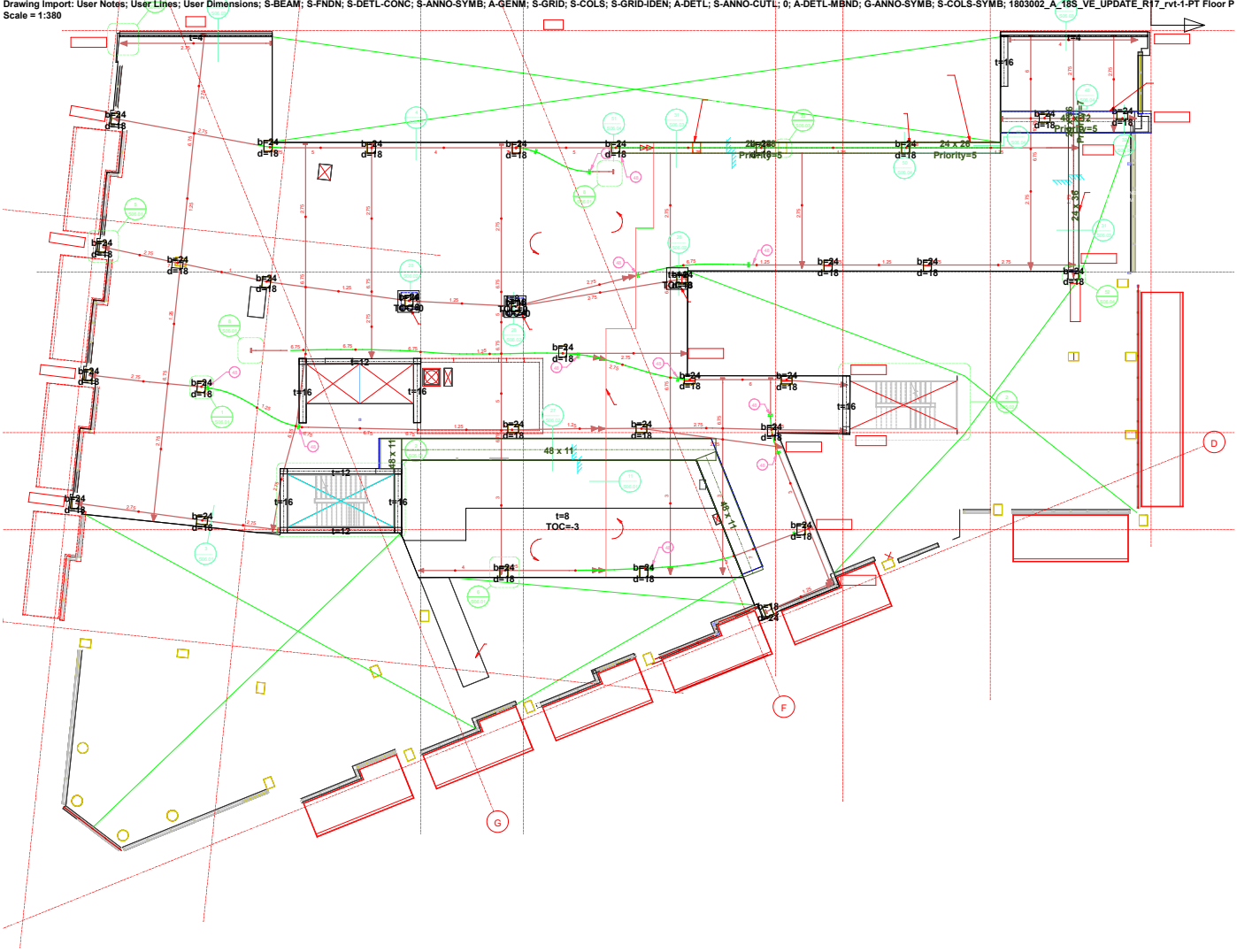

Other Dead Loading: Point Loads Plan

Other Dead Loading: Point Loads; Point Load Icons; Point Load Values; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
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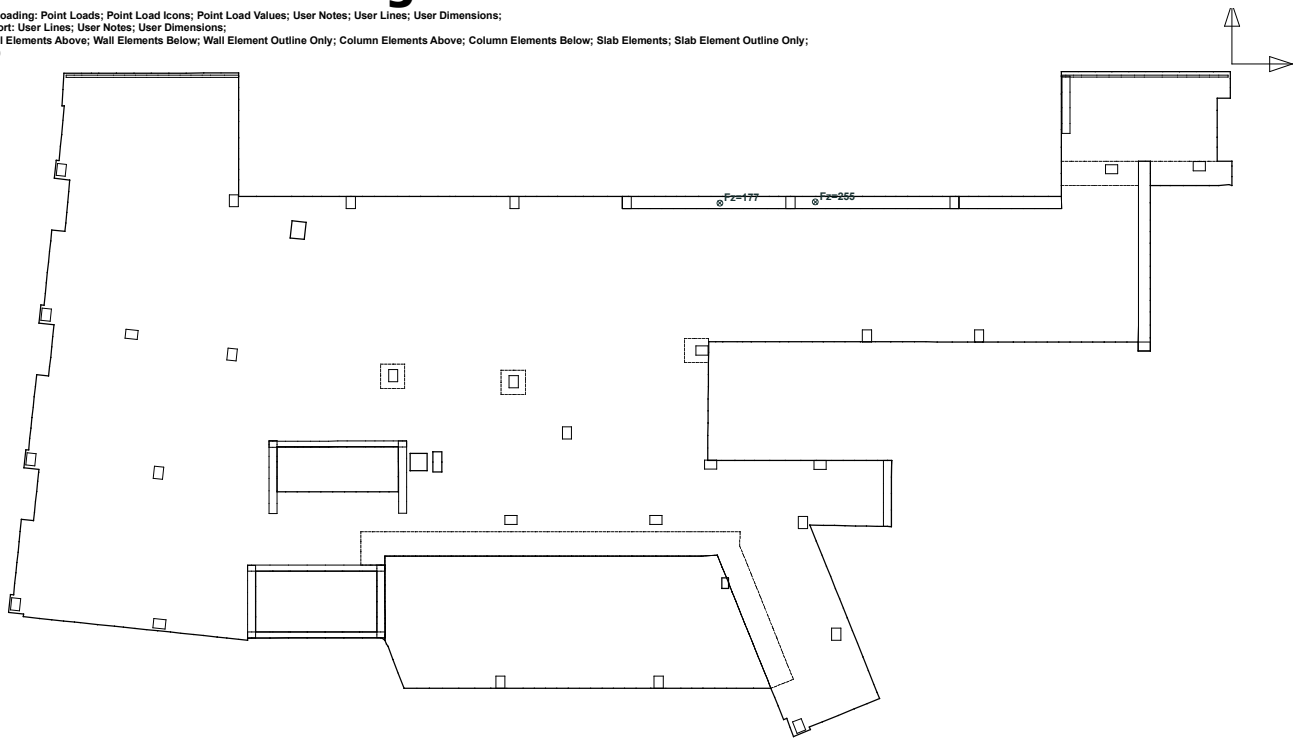

Other Dead Loading: Line Loads Plan

Other Dead Loading: Line Loads; Line Load Icons; Line Load Values; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
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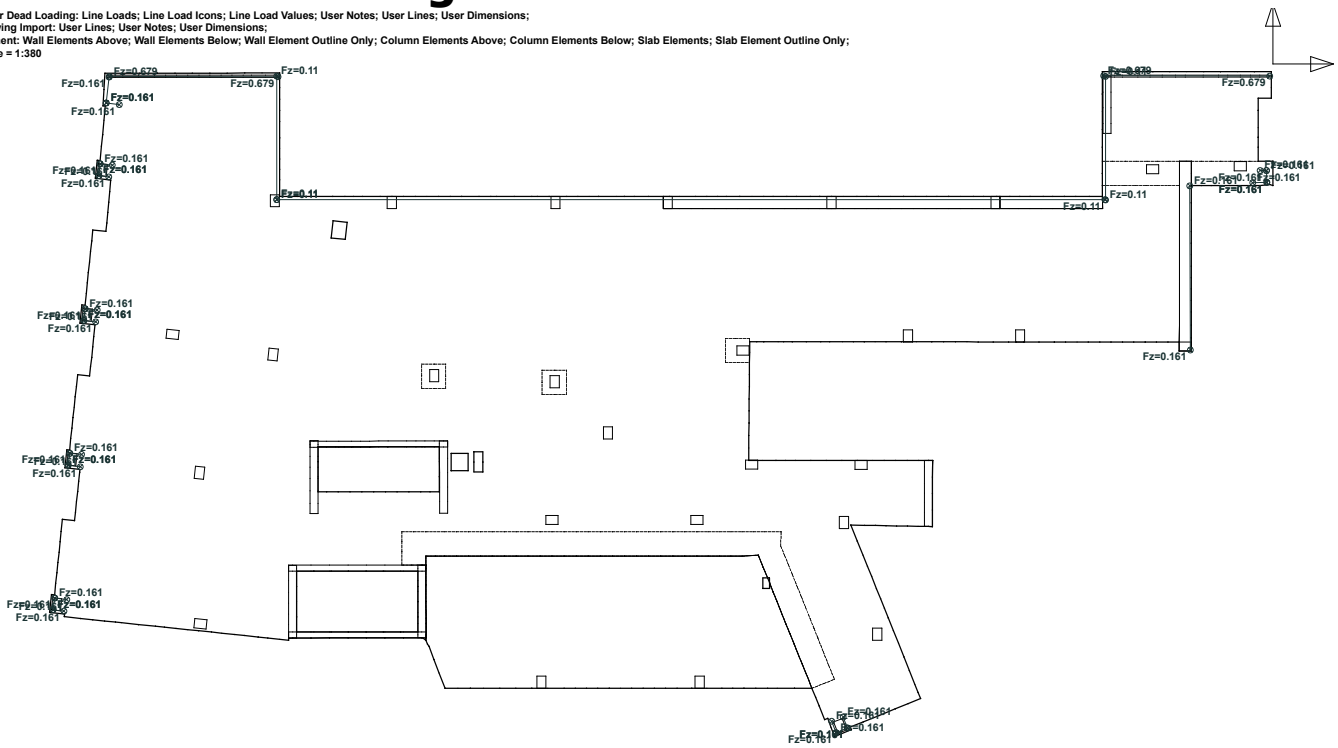

Other Dead Loading: Area Loads Plan

Other Dead Loading: User Lines; User Notes; User Dimensions; Area Loads; Area Load Icons; Area Load Values;
Drawing Import: User Lines; User Notes; User Dimensions;
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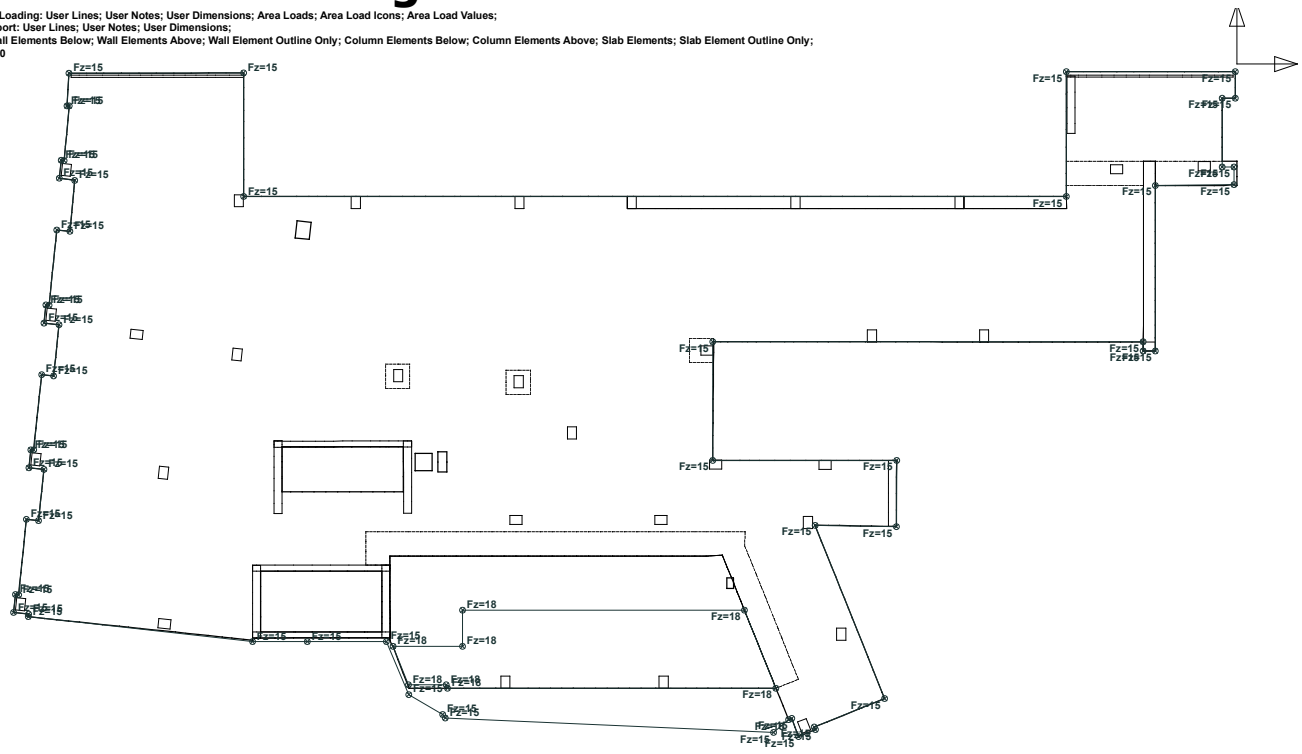
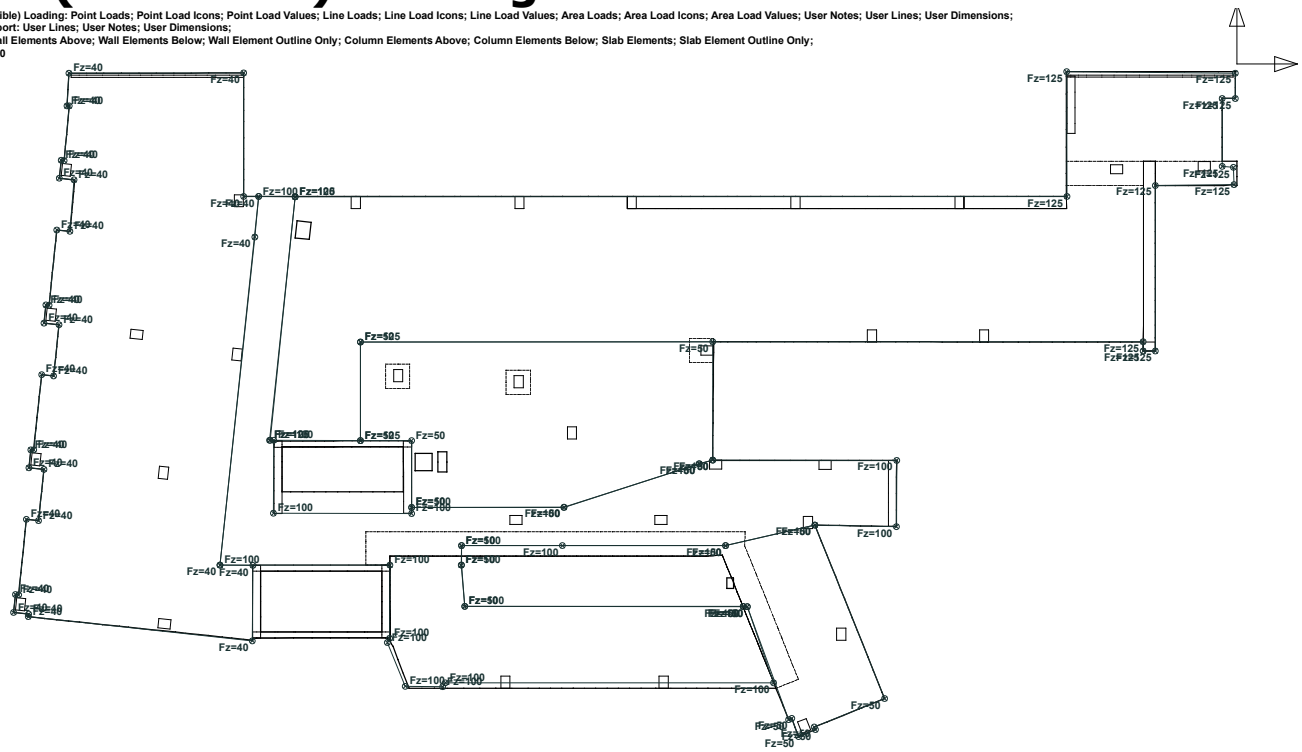


Live (Reducible) Loading: All Loads Plan

Live (Reducible) Loading: Point Loads; Point Load Icons; Point Load Values; Line Loads; Line Load Icons; Line Load Values; Area Loads; Area Load Icons; Area Load Values; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
Scale = 1:380



Live (Unreducible) Loading: Point Loads Plan

Live (Unreducible) Loading: Point Loads; Point Load Icons; Point Load Values; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
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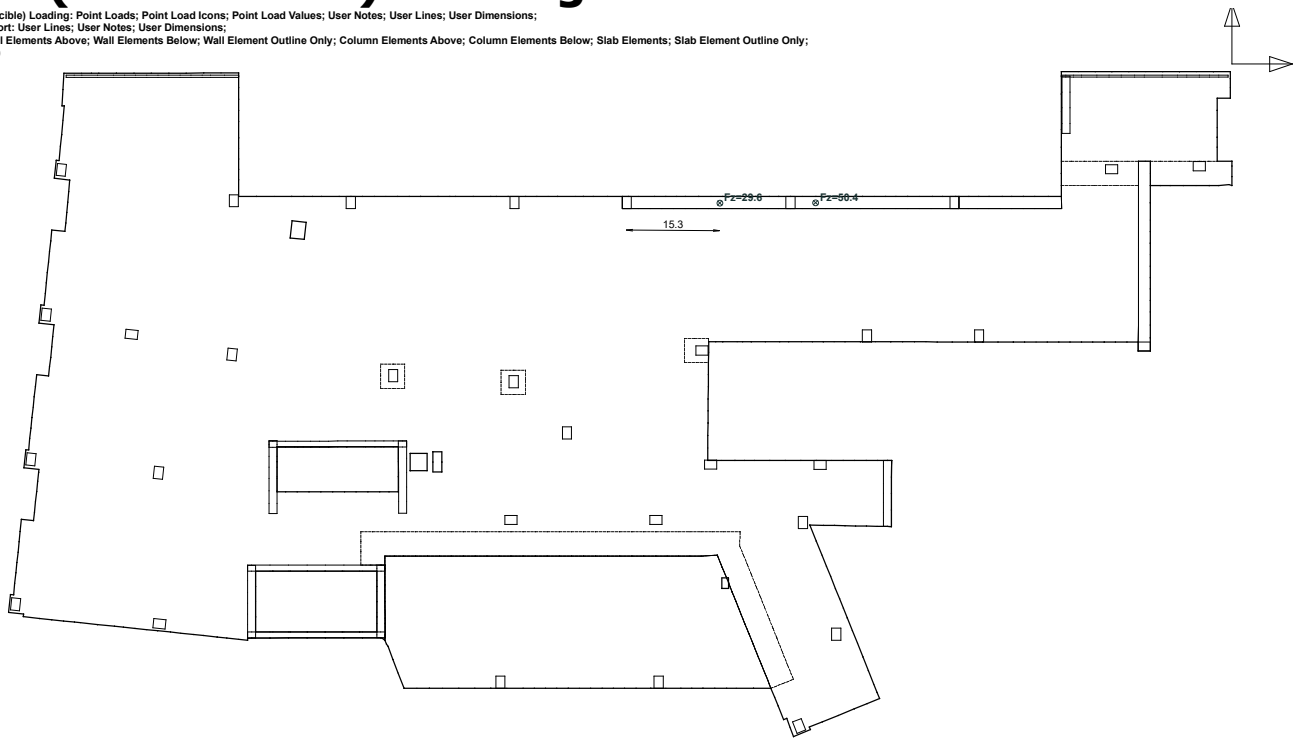

Live (Unreducible) Loading: Line Loads Plan

Live (Unreducible) Loading: Line Loads; Line Load Icons; Line Load Values; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
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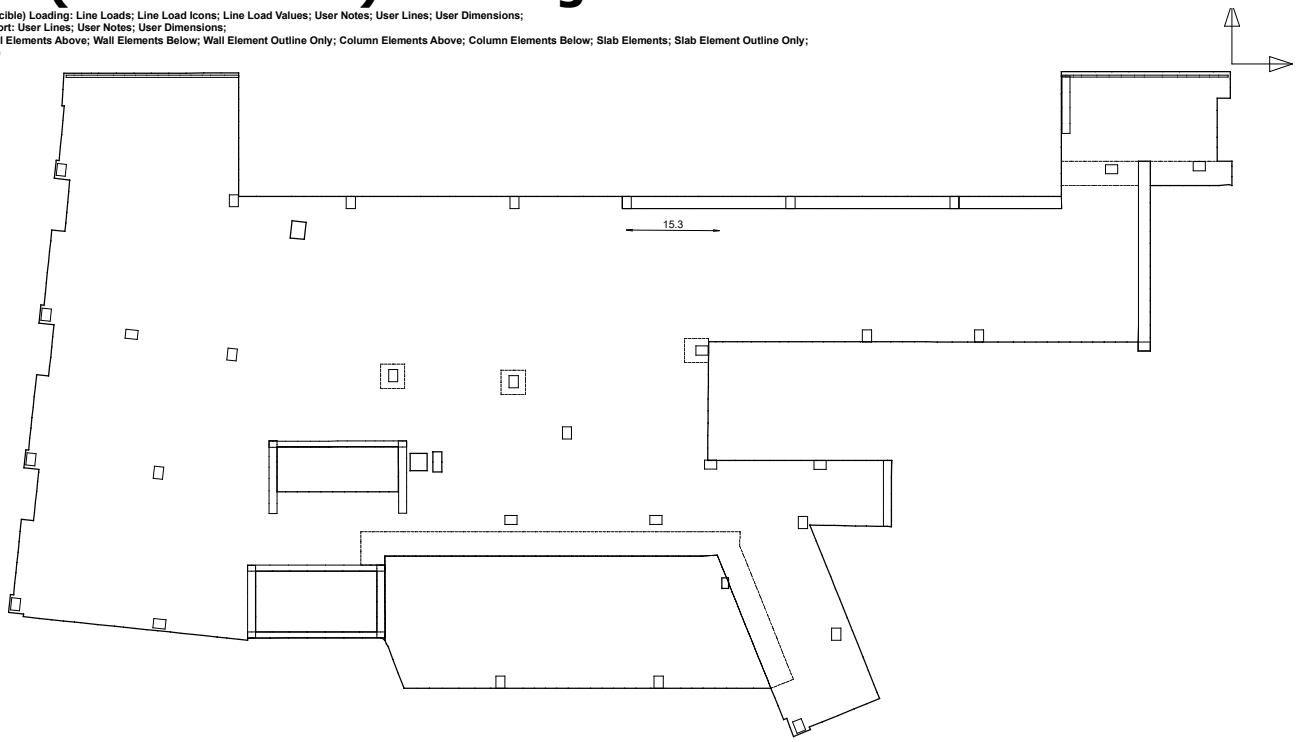

Live (Unreducible) Loading: Area Loads Plan

Live (Unreducible) Loading: User Lines; User Notes; User Dimensions; Area Loads; Area Load Icons; Area Load Values;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Below; Wall Elements Above; Wall Element Outline Only; Column Elements Below; Column Elements Above; Slab Elements; Slab Element Outline Only;
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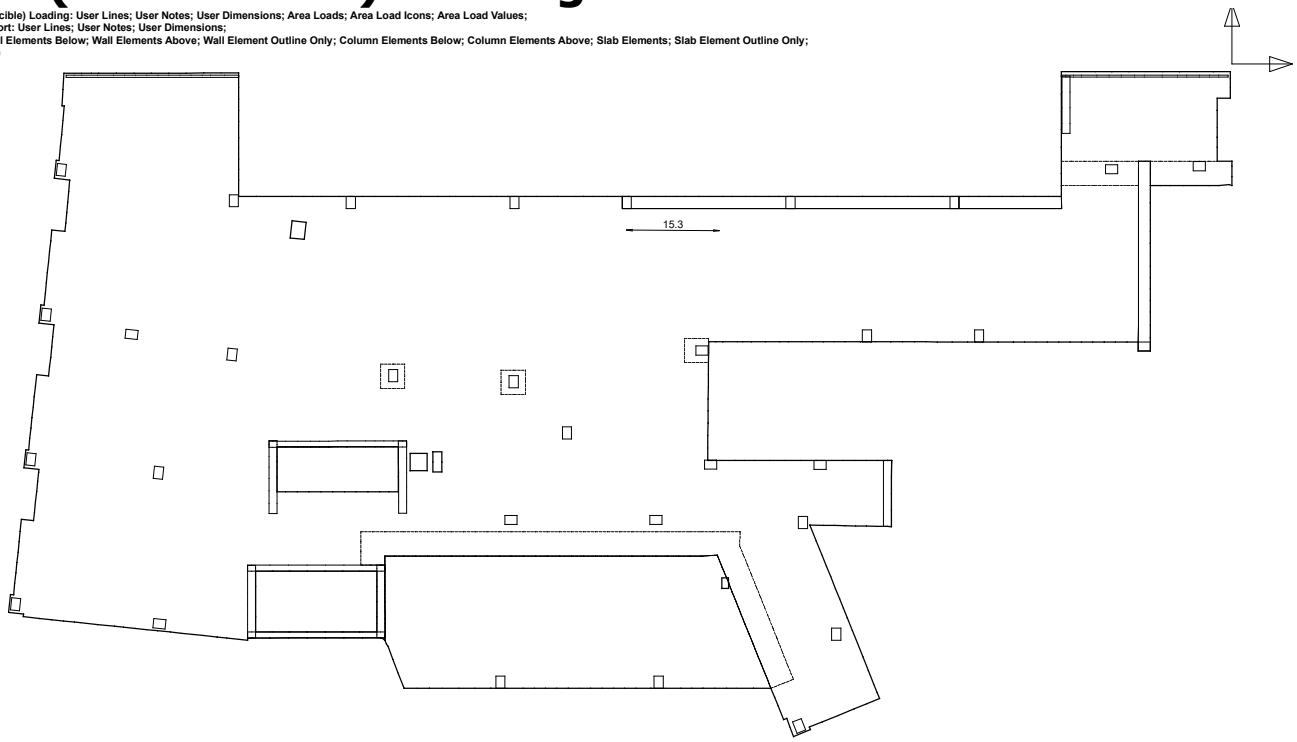
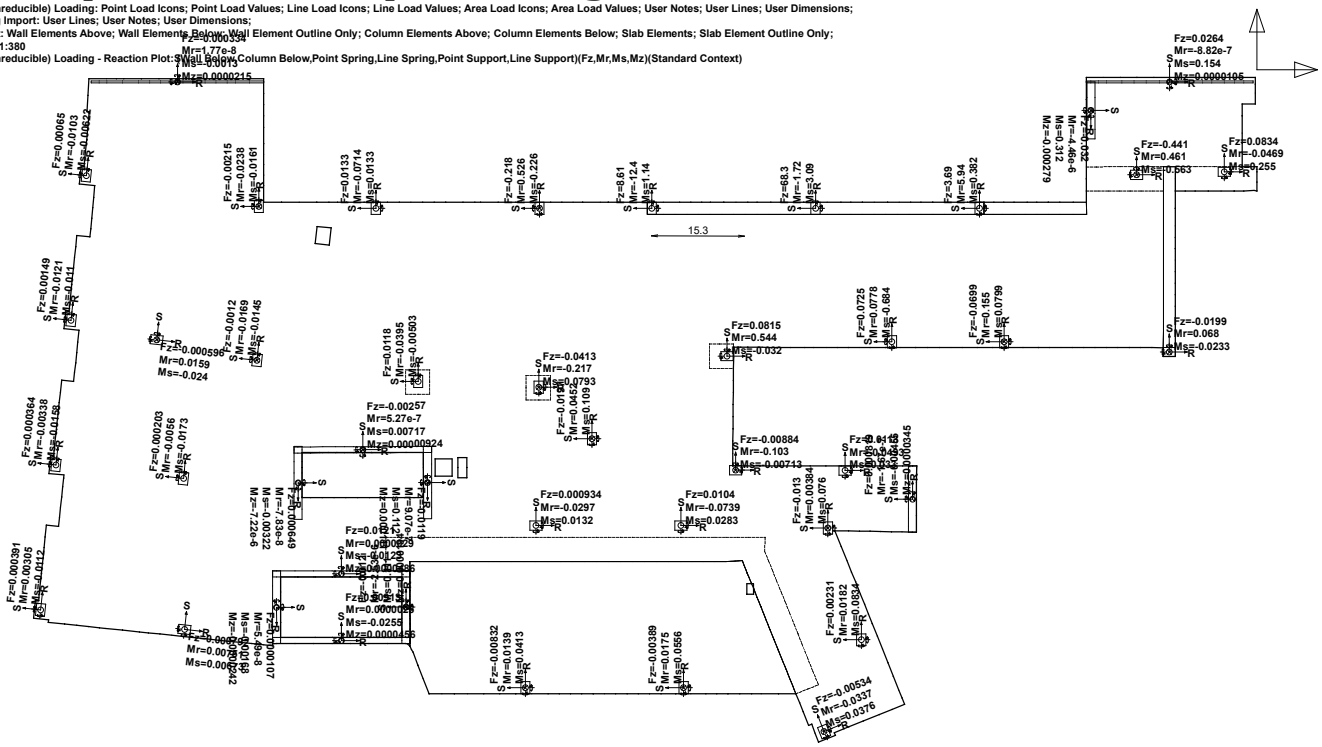


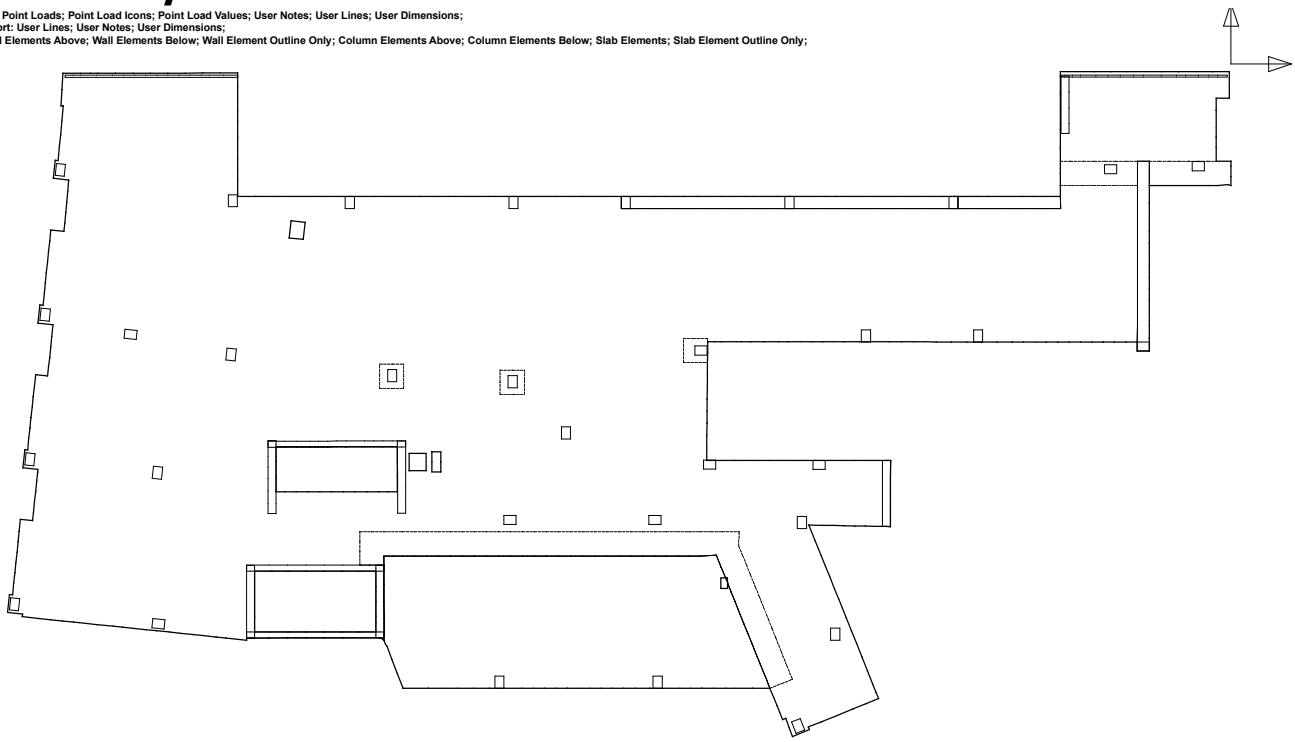
Live (Unreducible) Loading: Std Reactions Plan

Live (Unreducible) Loading: Point Load Icons; Point Load Values; Line Load Icons; Line Load Values; Area Load Icons; Area Load Values; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
Scale = 1:380
Live (Unreducible) Loading - Reaction Plot:Wall Below,Column Below,Point Spring,Line Spring,Point Support,Line Support)(Fz,Mr,Ms,Mz)(Standard Context)



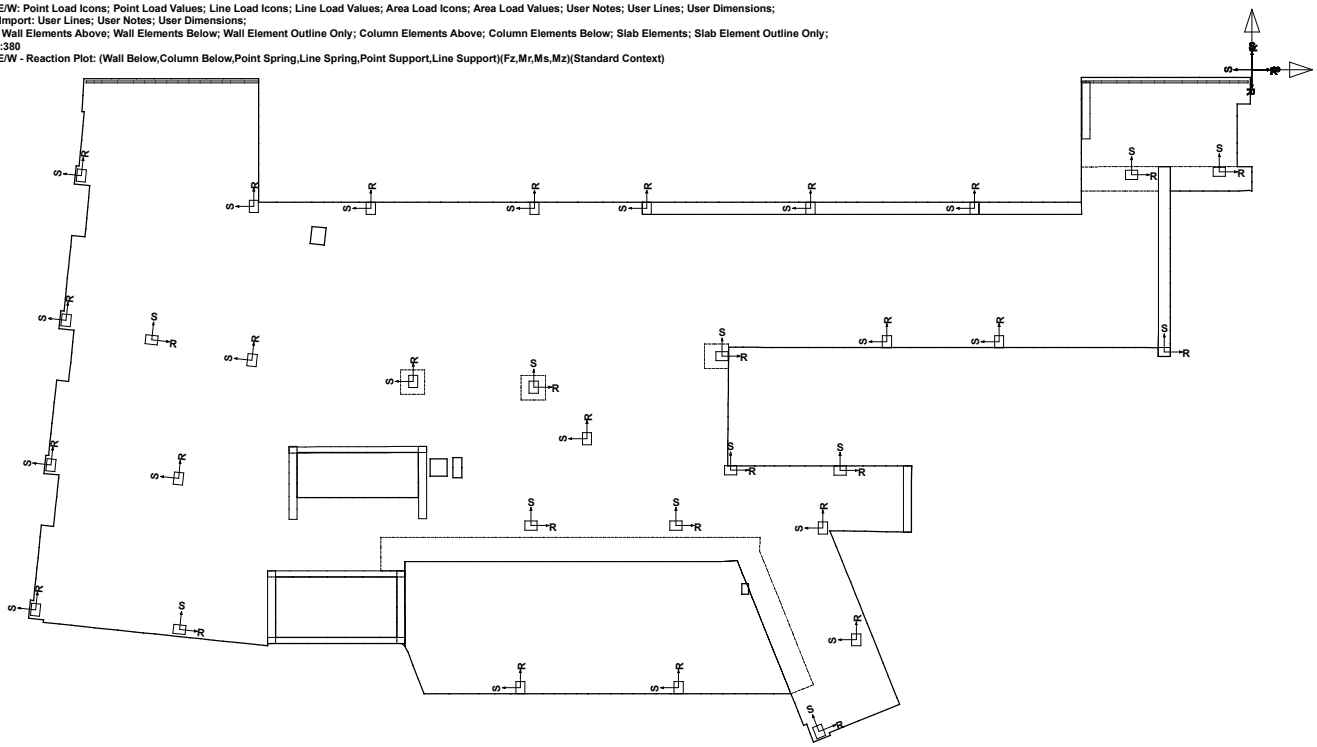
Seismic E/W: Point Loads Plan

Seismic E/W: Point Loads; Point Load Icons; Point Load Values; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
Scale = 1:380



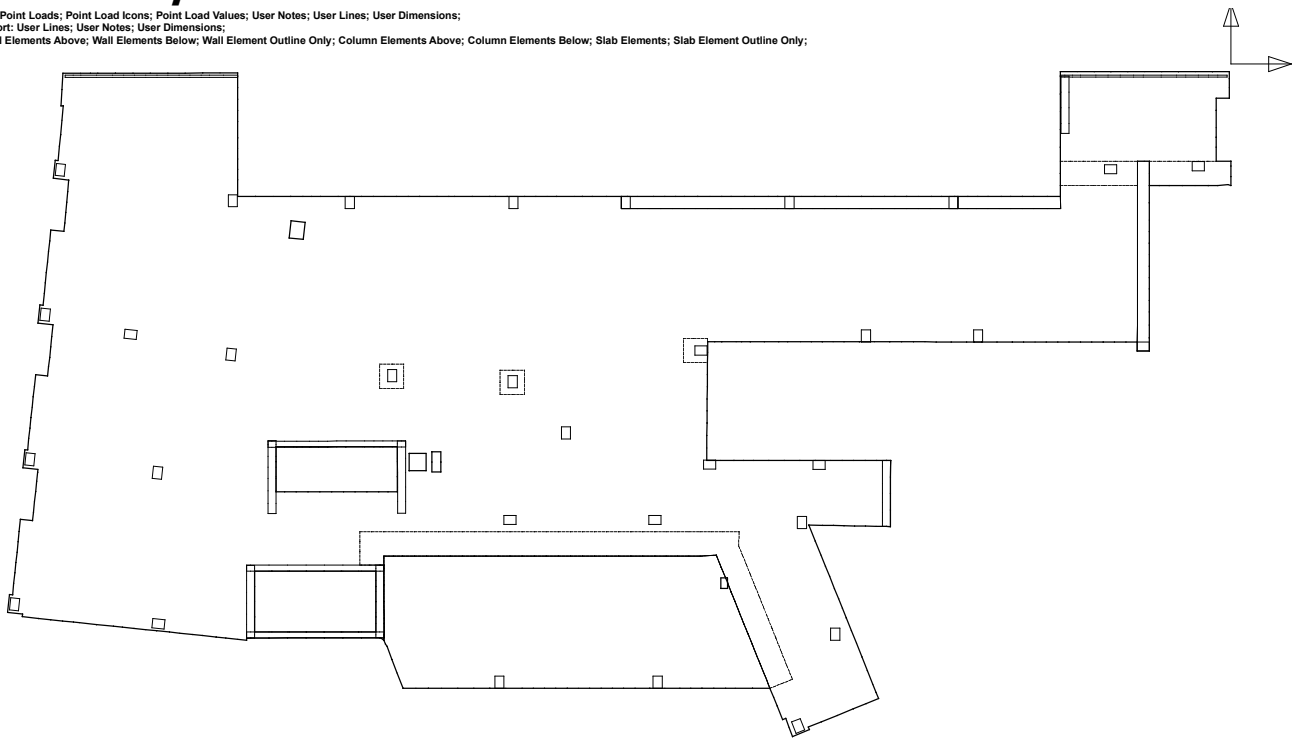
Seismic E/W: Std Reactions Plan

Seismic E/W: Point Load Icons; Point Load Values; Line Load Icons; Line Load Values; Area Load Icons; Area Load Values; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
Scale = 1:380
Seismic E/W - Reaction Plot: (Wall Below,Column Below,Point Spring,Line Spring,Point Support,Line Support)(Fz,Mr,Ms,Mz)(Standard Context)



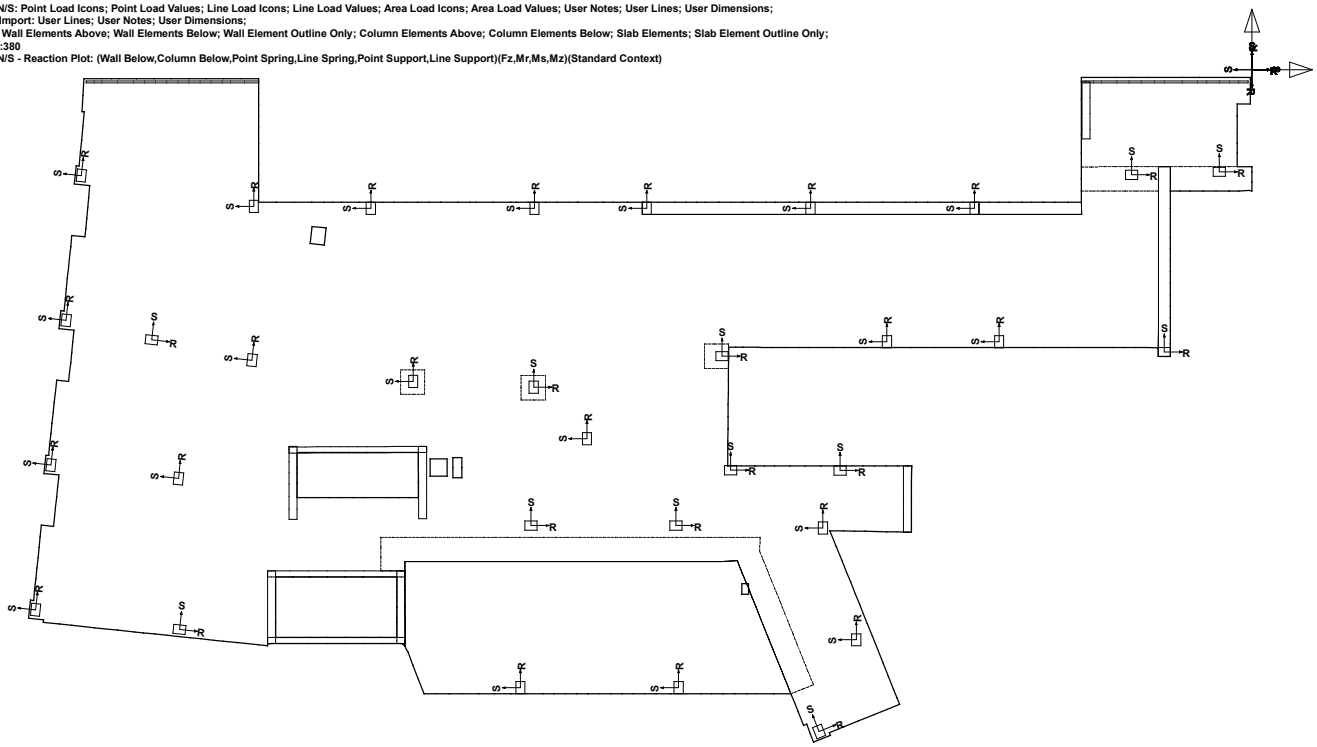
Seismic N/S: Point Loads Plan

Seismic N/S: Point Loads; Point Load Icons; Point Load Values; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
Scale = 1:380



Seismic N/S: Std Reactions Plan

Seismic N/S: Point Load Icons; Point Load Values; Line Load Icons; Line Load Values; Area Load Icons; Area Load Values; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
Scale = 1:380
Seismic N/S - Reaction Plot: (Wall Below,Column Below,Point Spring,Line Spring,Point Support,Line Support)(Fz,Mr,Ms,Mz)(Standard Context)

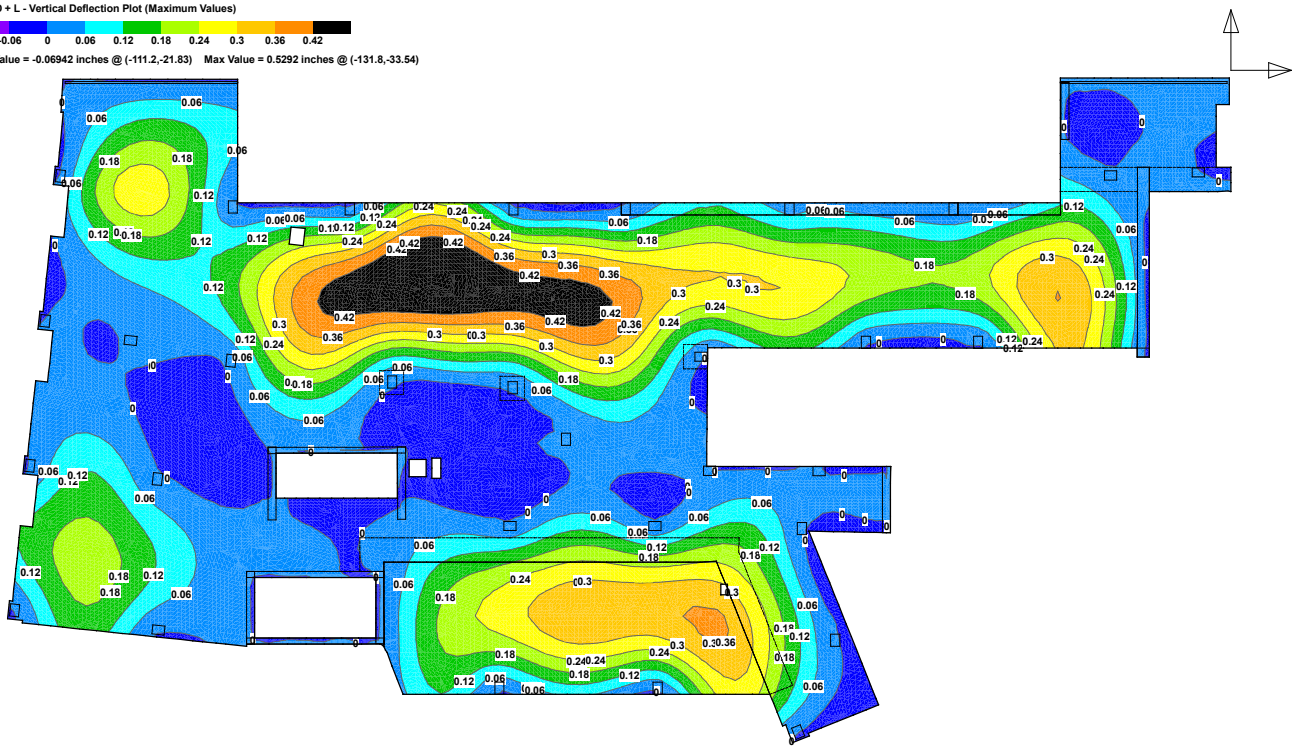


Service LC: D + L: Max Deflection Plan

Service LC: D + L: User Lines; User Notes; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Below; Wall Elements Above; Wall Element Outline Only; Column Elements Below; Column Elements Above; Slab Elements; Slab Element Outline Only;
Scale = 1:380
Service LC: D + L - Vertical Deflection Plot (Maximum Values)

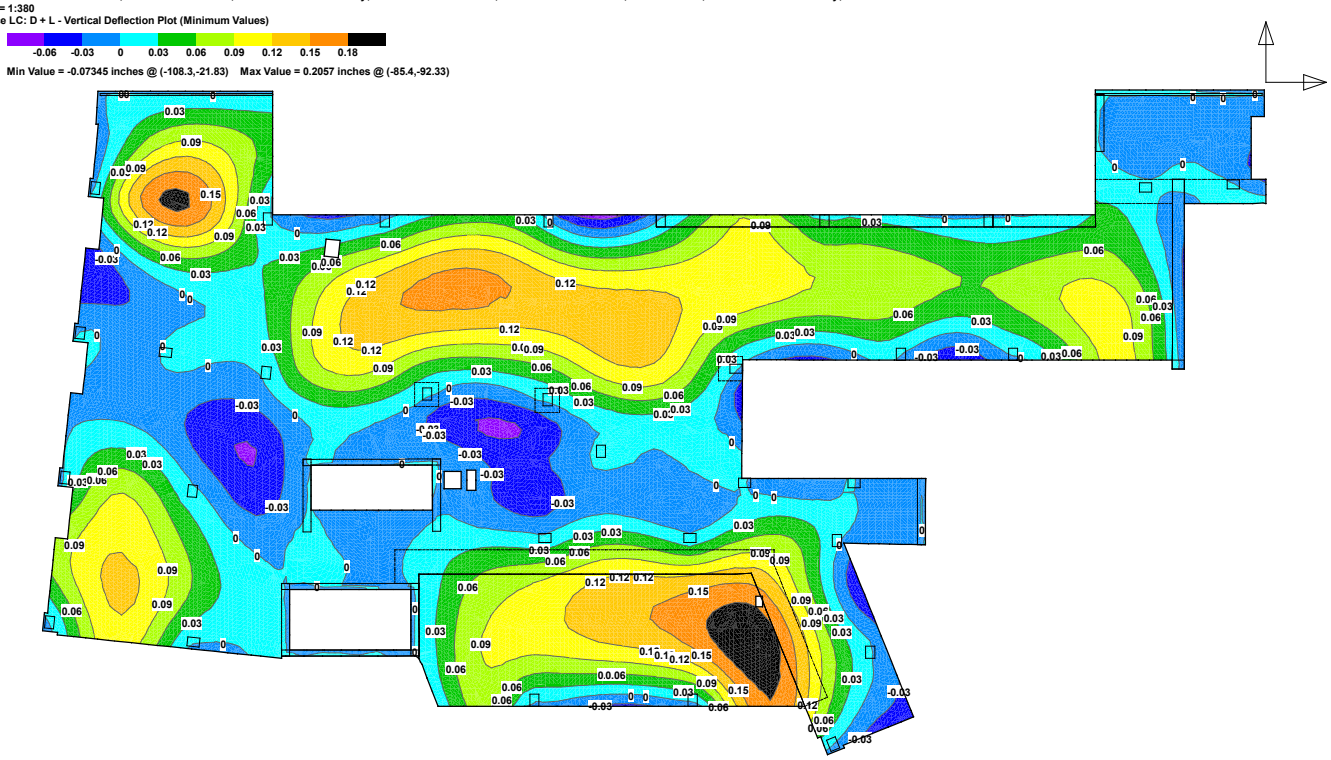
-0.06 0 0.06 0.12 0.18 0.24 0.3 0.36 0.42

Min Value = -0.06942 inches @ (-111.2,-21.83) Max Value = 0.5292 inches @ (-131.8,-33.54)



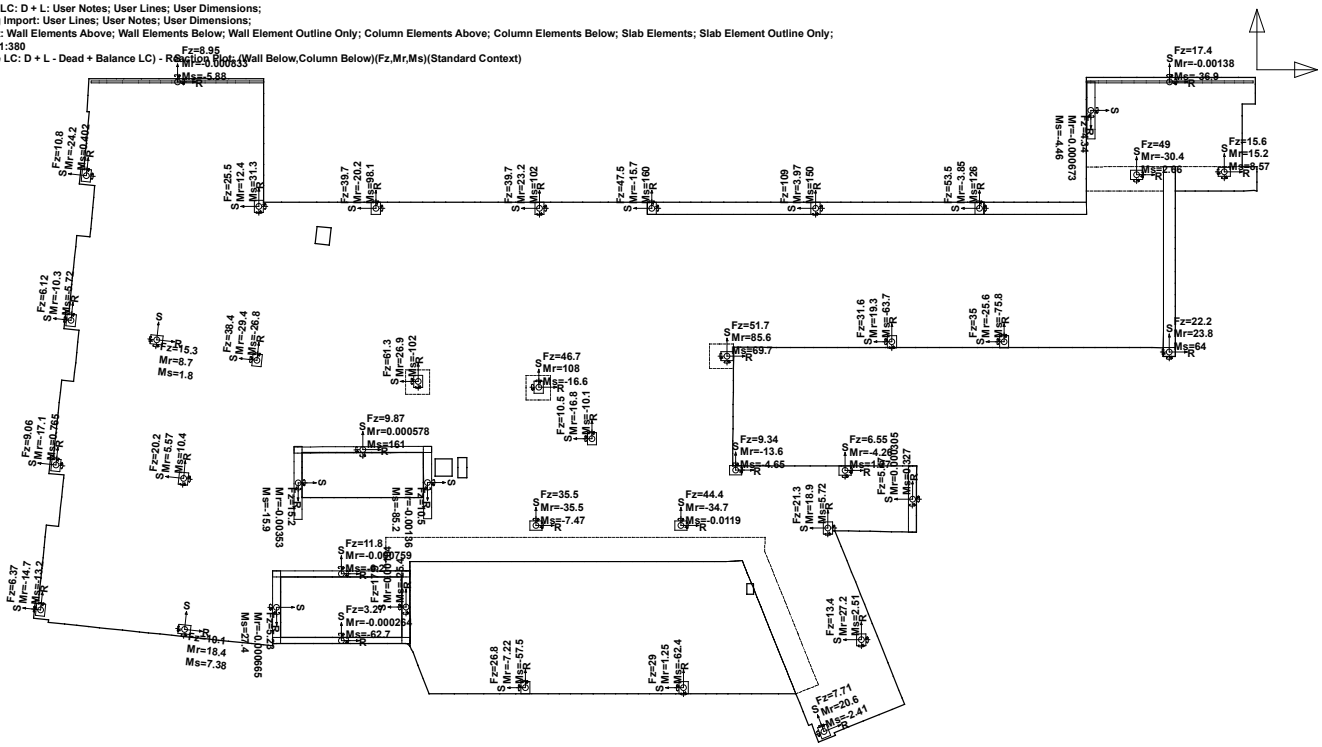
Service LC: D + L: Min Deflection Plan

Service LC: D + L: User Lines; User Notes; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Below; Wall Elements Above; Wall Element Outline Only; Column Elements Below; Column Elements Above; Slab Elements; Slab Element Outline Only;
Scale = 1:380
Service LC: D + L - Vertical Deflection Plot (Minimum Values)



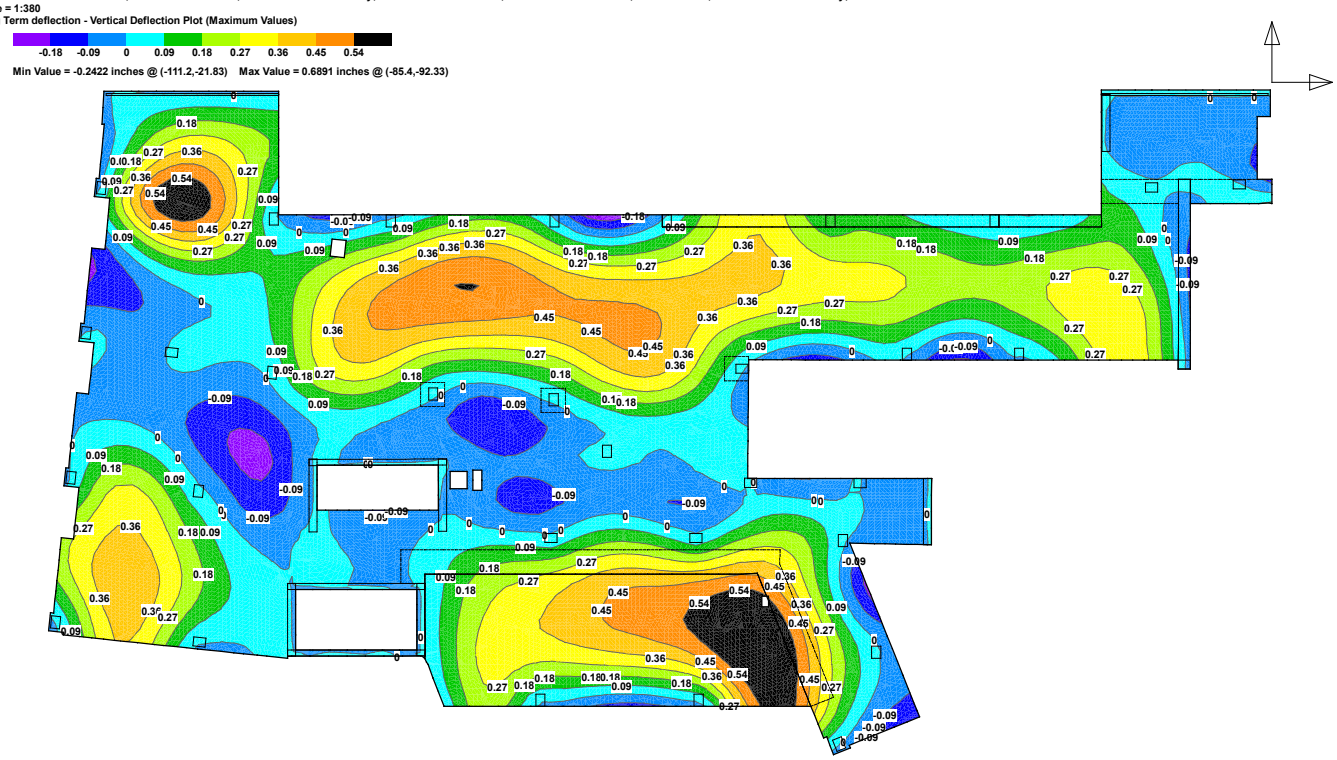
Service LC: D + L: Reaction Plan

Service LC: D + L: User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
Scale = 1:380
(Service LC: D + L - Dead + Balance LC) - Reaction Plot (Wall Below,Column Below)(Fz,Mr,Ms)(Standard Context)



Long Term deflection: Max Deflection Plan

Long Term deflection: User Lines; User Notes; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Below; Wall Elements Above; Wall Element Outline Only; Column Elements Below; Column Elements Above; Slab Elements; Slab Element Outline Only;
Scale = 1:380
Long Term deflection - Vertical Deflection Plot (Maximum Values)



Min Value = -0.2422 inches @ (-111.2,-21.83) Max Value = 0.6891 inches @ (-85.4,-92.33)

Design Strip: Latitude SSs Table

Name	*Set*	*Location feet*	*Skew degrees*	*At Support 1*	*At Support 2*	*Support Width 1 inches*
1-1	latitude	(-200.6,-89.05)(-176.8,-92.28)	-7.258	true	true	18.17
1-2	latitude	(-176.8,-92.28)(-161.5,-94.12)	-4.017	true	true	24.16
2-1	latitude	(-195.5,-41.31)(-181.4,-44.55)	-12.55	true	true	18.29
2-2	latitude	(-181.4,-44.55)(-164.9,-47.89)	-17.49	true	true	24.27
2-3	latitude	(-164.9,-47.89)(-138.3,-51.38)	-7.178	true	true	18.16
2-4	latitude	(-138.3,-51.38)(-118.4,-52.35)	-2.835	true	true	18.18
2-5	latitude	(-118.4,-52.35)(-87.38,-47.32)	9.382	true	true	18.4
3-1	latitude	(-198,-65.18)(-177,-67.39)		true	true	18.16
3-2	latitude	(-177,-67.39)(-158,-73.74)	18.47	true	true	18.6
3-3	latitude	(-158,-73.74)(-136.6,-73.68)		true	true	13.52
3-4	latitude	(-136.6,-73.68)(-118.9,-75.16)	-7.46	true	true	13.05
3-5	latitude	(-118.9,-75.16)(-94.99,-74.76)	-0.947	true	true	24.16
3-6	latitude	(-94.99,-74.76)(-70.83,-75.36)	-1.436	true	true	24.16
3-7	latitude	(-70.83,-75.36)(-56.75,-75.57)	-0.517	true	true	20.02
4-1	latitude	(-193,-17.44)(-164.6,-22.53)	10.31	true	true	18.2
4-2	latitude	(-164.6,-22.53)(-145.3,-22.83)	-0.893	true	true	18.16
4-3	latitude	(-145.3,-22.83)(-118.3,-22.84)	-0.0395578	true	true	18.16
4-4	latitude	(-118.3,-22.84)(-99.8,-22.83)	0.0508123	true	true	18.16
4-5	latitude	(-99.8,-22.83)(-72.79,-22.83)	0.0003478	true	true	18.16
4-6	latitude	(-72.79,-22.83)(-45.78,-22.84)	-0.0076555	true	true	17.83
4-7	latitude	(-45.78,-22.84)(-15.45,-23.22)	-0.725	true	false	18.16
5-1	latitude	(-140.1,-94.03)(-120.6,-101.9)	-22.02	true	true	12.35
5-2	latitude	(-120.6,-101.9)(-94.55,-101.9)	-1.019e-6	true	true	18.16
5-3	latitude	(-94.55,-101.9)(-65.26,-94)	-14.11	true	true	18.8
5-4	latitude	(-65.26,-94)(-62.99,-93.09)	-21.9	true	false	19.56
6-1	latitude	(-85.98,-66.03)(-67.92,-66.08)	-0.0683	true	true	24.16
6-2	latitude	(-67.92,-66.08)(-56.52,-65.99)	-0.499	true	true	24.16
7-1	latitude	(-87.36,-45.48)(-60.2,-44.83)	-1.365	false	true	0
7-2	latitude	(-60.2,-44.83)(-41.7,-44.83)	1.309e-6	true	true	18.16
7-3	latitude	(-41.7,-44.83)(-15.45,-44.26)	-0.247	true	false	18.16
8-1	latitude	(-71.38,-109.1)(-59.03,-110)	-0.467	true	false	18.15
9-1	latitude	(-27.98,-17.62)(-19.02,-17.34)	-1.724	false	true	0.3702
9-2	latitude	(-19.02,-17.34)(-15.45,-17.36)	-0.326	true	false	4.158
9-2(2)	latitude	(-15.45,-17.36)(-13.45,-17.4)	-1.24	false	false	0
9-2(3)	latitude	(-13.45,-17.4)(-5.378,-16.83)	-6.891	false	true	0
9-3	latitude	(-5.378,-16.83)(-0.58963,-17.11)	-3.718	true	false	24.2

Design Strip: Latitude SSs Table (2)

t Width 1	Support Width 2 inches	Support Trans. Width 1 inches	Support Trans. Width 2 inches	Auto-Support	Min Divisions	Max Division Spacing feet
	24.17	24.01	18.01	true	4	2.5
	19.99	18	55.24	true	4	2.5
	24.33	24.17	18.13	true	4	2.5
	18.24	18.08	24.11	true	4	2.5
	18.31	24.01	24.21	true	4	2.5
	18.18	24.03	24.03	true	4	2.5
	24.48	24.32	18.24	true	4	2.5
	18.16	24	24	true	4	2.5
	19.82	24.58	25.7	true	4	2.5
	19.31	144.2	143.3	true	4	2.5
	24.24	80.15	18.06	true	4	2.5
	24.16	18	18	true	4	2.5
	16.3	18.01	24.01	true	4	2.5
	18.06	24	130.8	true	4	2.5
	18.44	24.06	24.38	true	4	2.5
	18.16	24	24	true	4	2.5
	18.16	24	24	true	4	2.5
	18.16	24	24	true	4	2.5
	18.49	24	24	true	4	2.5
	18.16	24	24	true	4	2.5
	0	24	0	true	4	2.5
	19.57	21.47	25.89	true	4	2.5
	18.16	24	24	true	4	2.5
	18.8	24.86	24.86	true	4	2.5
	0	25.87	0	true	4	2.5
	24.16	18	18	true	4	2.5
	22.84	18	130.8	true	4	2.5
	18.16	0	24.01	true	4	2.5
	18.16	24	24	true	4	2.5
	0	24	0	true	4	2.5
	0	24	0	true	4	2.5
	44.18	0	18.01	true	4	2.5
	0	18	0	true	4	2.5
	0	0	0	true	4	2.5
	24.22	0	18.04	true	4	2.5
	0	18.03	0	true	4	2.5

Design Strip: Latitude SSs Table (3)

n Spacing	Design For Axial	Environment	Design As PT	Maximize Integrated V	Use Spec LLR Params	Spec. LLR Levels	Spec. Trib. Area ft²
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	true	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	true	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0

Design Strip: Latitude SSs Table (4)

Spec. Infl. Area ft²	Max LLR %	Span Width	Col Strip Width	Lock Strips	Design CS for CS	-CS Auto Trim	CS Section Slope
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	inverted T or L	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	T or L	0.25
0	40	auto	full	false	false	T or L	0.25
0	40	auto	full	false	false	T or L	0.25
0	40	auto	full	false	false	T or L	0.25
0	40	auto	full	false	false	T or L	0.25

Design Strip: Latitude SSs Table (5)

Section Slope Tip	CS Top Bar	CS Bot Bar	CS Shear Bar	CS Top Cover inches	CS Bot Cover inches	CS Shear d calc	CS Torsion Design	CS System
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	Maximize Effective Depth		two-way slab
	#5	#4	#4	1.5	0.75	Maximize Effective Depth		two-way slab
	#5	#4	#4	1.5	0.75	Maximize Effective Depth		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		beam
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		beam
	#5	#4	#4	1.5	0.75	Maximize Effective Depth		beam
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	Maximize Effective Depth		beam
	#5	#4	#4	1.5	0.75	Maximize Effective Depth		beam
	#5	#4	#4	1.5	0.75	Maximize Effective Depth		beam
	#5	#4	#4	1.5	0.75	Maximize Effective Depth		beam
	#5	#4	#4	1.5	0.75	Maximize Effective Depth		beam

Design Strip: Latitude SSs Table (6)

CS Min. Bar Loc.	CS Min T.Bar	CS Min B.Bar	CS Shear Legs	MS Same As CS	MS Auto Trim	MS Section Slope	MS Top Bar	MS Bot Bar
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	4	true	none	0.25	#5	#4
elevated	0	0	4	true	none	0.25	#5	#4
elevated	0	0	4	true	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	4	false	none	0.25	#5	#4
stress	0	0	4	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	4	true	none	0.25	#5	#4
elevated	0	0	4	true	none	0.25	#5	#4
elevated	0	0	4	true	none	0.25	#5	#4
elevated	0	0	4	true	none	0.25	#5	#4
elevated	0	0	4	true	none	0.25	#5	#4

Design Strip: Latitude SSs Table (7)

S Bot Bar	MS Shear Bar	MS Top Cover inches	MS Bot Cover inches	MS Shear d calc	MS Torsion Design	MS System	MS Min. Bar Loc.	MS Min T.Bar	MS Min B.Bar
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0

Design Strip: Latitude SSs Table (8)

S Min B.Bar	*MS Shear Legs*
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
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	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2

Design Strip: Longitude SSs Table

Name	*Set*	*Location feet*	*Skew degrees*	*At Support 1*	*At Support 2*	*Support Width 1 inches*
10-1	longitude	(-200.6,-89.05)(-198,-65.18)	5.081	true	true	24.16
10-2	longitude	(-198,-65.18)(-195.5,-41.31)	6.31	true	true	24.16
10-3	longitude	(-195.5,-41.31)(-193,-17.44)	7.44	true	true	24.16
10-4	longitude	(-193,-17.44)(-191.6,-2.565)	5.265	true	true	24.16
11-1	longitude	(-176.8,-92.28)(-177,-67.39)	0.39905	true	true	18.27
11-2	longitude	(-177,-67.39)(-164.9,-47.89)	7.289	true	true	26.83
11-3	longitude	(-164.9,-47.89)(-164.6,-22.53)	0.2596	true	true	24.26
11-4	longitude	(-164.6,-22.53)(-164.6,-2.036)	0	true	true	24.16
12-1	longitude	(-145.3,-22.83)(-138.3,-51.38)	13.37	true	true	24.87
12-2	longitude	(-138.3,-51.38)(-136.7,-62.94)	6.394	true	true	24.42
13-1	longitude	(-120.6,-101.9)(-119.9,-90.02)	3.582	true	false	24.21
13-1(2)	longitude	(-119.9,-90.02)(-118.9,-75.16)	7.516	false	true	0
13-2	longitude	(-118.9,-75.16)(-118.4,-52.35)	12.85	true	true	18.16
13-3	longitude	(-118.4,-52.35)(-118.3,-22.83)	0.2843	true	true	24.16
14-1	longitude	(-109.7,-60.83)(-94.99,-34.24)	29.74	true	true	24.97
15-1	longitude	(-94.99,-74.76)(-94.55,-109.16)	1.967	true	true	27.64
16-1	longitude	(-99.8,-22.83)(-88.59,-44.03)	2.93	true	false	27.07
17-1	longitude	(-87.38,-47.22)(-86.87,-66.53)	5.35	true	true	18.16
18-1	longitude	(-67.92,-66.08)(-70.83,-75.36)	7.46	true	true	19.02
18-2	longitude	(-70.83,-75.36)(-65.26,-94)	9.63	true	true	30.69
18-3	longitude	(-65.26,-94)(-71.38,-109.2)	21.03	true	true	26.05
19-1	longitude	(-72.79,-22.83)(-60.2,-44.37)	2.378	true	true	27.85
20-1	longitude	(-45.78,-22.84)(-41.7,-44.83)	1.83	true	true	24.57
21-1	longitude	(-19.91,-15.87)(-19.56,-2.4)	2.427	false	true	0
22-1	longitude	(-14.48,-20.06)(-14.45,-46.57)	0.5578	false	true	0
23-1	longitude	(-5.47,-2.005)(-5.33,-16.93)	0.5377	true	true	3.906
23-2	longitude	(-5.33,-16.93)(-5.308,-19.83)	0.8411	true	false	15.8

Design Strip: Longitude SSs Table (2)

t Width 1	Support Width 2 inches	Support Trans. Width 1 inches	Support Trans. Width 2 inches	Auto-Support	Min Divisions	Max Division Spacing feet
24.16	18	18	true	4	2.5
24.16	18	18	true	4	2.5
24.16	18	18	true	4	2.5
3.629	18	26.04	true	4	2.5
24.31	24.15	18.11	true	4	2.5
26.83	20.01	20.01	true	4	2.5
24.16	18.08	18	true	4	2.5
3.299	18	341	true	4	2.5
24.87	18.53	18.53	true	4	2.5
10.49	18.19	55.16	true	4	2.5
0	18.04	0	true	4	2.5
18.2	0	24.05	true	4	2.5
24.16	24	18	true	4	2.5
24.16	18	18	true	4	2.5
12.53	26.15	23.31	true	4	2.5
24.16	24	18	true	4	2.5
0	20.18	0	true	4	2.5
19.76	24.01	24.01	true	4	2.5
19.81	25.15	18.86	true	4	2.5
25.2	18.79	18.79	true	4	2.5
26.06	19.42	25.03	true	4	2.5
27.81	20.74	20.74	true	4	2.5
24.57	18.31	18.31	true	4	2.5
4.033	0	160.4	true	4	2.5
18.16	0	24	true	4	2.5
20.51	258.7	24	true	4	2.5
0	24	0	true	4	2.5

Design Strip: Longitude SSs Table (3)

n Spacing	Design For Axial	Environment	Design As PT	Maximize Integrated V	Use Spec LLR Params	Spec. LLR Levels	Spec. Trib. Area ft²
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	false	false	false	1	0
	true	normal	true	false	false	1	0
	true	normal	false	false	false	1	0
	true	normal	false	false	false	1	0

Design Strip: Longitude SSs Table (4)

Spec. Infl. Area ft²	Max LLR %	Span Width	Col Strip Width	Lock Strips	Design CS for CS	-CS Auto Trim	CS Section Slop
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	T or L	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25
0	40	auto	code-beam	false	false	inverted T or L	100
0	40	auto	full	false	false	none	0.25
0	40	auto	full	false	false	none	0.25

Design Strip: Longitude SSs Table (5)

Section Slope Tip	CS Top Bar	CS Bot Bar	CS Shear Bar	CS Top Cover inches	CS Bot Cover inches	CS Shear d calc	CS Torsion Design	CS System
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	Maximize Effective Depth		two-way slab
	#5	#4	#4	1.5	0.75	Maximize Effective Depth		two-way slab
	#5	#4	#4	1.5	0.75	Maximize Effective Depth		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	Maximize Effective Depth		two-way slab
	#5	#4	#4	1.5	0.75	Maximize Effective Depth		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1	1	Maximize Effective Depth		beam
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab
	#5	#4	#4	1.5	0.75	All Tension Reinforcement		two-way slab

Design Strip: Longitude SSs Table (6)

CS Min. Bar Loc.	CS Min T.Bar	CS Min B.Bar	CS Shear Legs	MS Same As CS	MS Auto Trim	MS Section Slope	MS Top Bar	MS Bot Bar
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
elevated	0	0	2	false	none	0.25	#5	#4
elevated	0	0	4	true	none	0.25	#5	#4
elevated	0	0	4	true	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
elevated	0	0	4	true	none	0.25	#5	#4
elevated	0	0	4	true	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
bottom	0	0	2	true	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4
stress	0	0	2	false	none	0.25	#5	#4

Design Strip: Longitude SSs Table (7)

S Bot Bar	MS Shear Bar	MS Top Cover inches	MS Bot Cover inches	MS Shear d calc	MS Torsion Design	MS System	MS Min. Bar Loc.	MS Min T.Bar	MS Min B.Bar
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0
	#4	1.5	0.75	All Tension Reinforcement		two-way slab	stress	0	0

Design Strip: Longitude SSs Table (8)

Min B.Bar	MS Shear Legs
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2

Design Strip: Latitude SSSs Table

Name	*Strip Type*	*Calc. Trib. Area ft²*	*Calc. Infl. Area ft²*	*Top Bar*	*Bottom Bar*	*Shear Bar*	*Top Cover inches*
1C-1	center	279	0	#5	#4	#4	1.5
1C-2	center	151.7	0	#5	#4	#4	1.5
2C-1	center	319	0	#5	#4	#4	1.5
2C-2	center	371.7	0	#5	#4	#4	1.5
2C-3	center	526.3	0	#5	#4	#4	1.5
2C-4	center	499.7	0	#5	#4	#4	1.5
2C-5	center	569.5	0	#5	#4	#4	1.5
3C-1	center	454.8	0	#5	#4	#4	1.5
3C-2	center	330.7	0	#5	#4	#4	1.5
3C-3	center	73.06	0	#5	#4	#4	1.5
3C-4	center	370.8	0	#5	#4	#4	1.5
3C-5	center	507.8	0	#5	#4	#4	1.5
3C-6	center	419.7	0	#5	#4	#4	1.5
3C-7	center	41.44	0	#5	#4	#4	1.5
4C-1	center	524.3	0	#5	#4	#4	1.5
4C-2	center	250.6	0	#5	#4	#4	1.5
4C-3	center	330.8	0	#5	#4	#4	1.5
4C-4	center	258.1	0	#5	#4	#4	1.5
4C-5	center	321.9	0	#5	#4	#4	1.5
4C-6	center	311	0	#5	#4	#4	1.5
4C-7	center	251.3	0	#5	#4	#4	1.5
5C-1	center	250.7	0	#5	#4	#4	1.5
5C-2	center	320.5	0	#5	#4	#4	1.5
5C-3	center	347.6	0	#5	#4	#4	1.5
5C-4	center	4.711	0	#5	#4	#4	1.5
6C-1	center	67.14	0	#5	#4	#4	1.5
6C-2	center	49.85	0	#5	#4	#4	1.5
7C-1	center	298.1	0	#5	#4	#4	1.5
7C-2	center	199.3	0	#5	#4	#4	1.5
7C-3	center	283.2	0	#5	#4	#4	1.5
8C-1	center	70.17	0	#5	#4	#4	1.5
9C-1	center	128.7	0	#5	#4	#4	1.5
9C-2	center	55.2	0	#5	#4	#4	1.5
9C-2(2)	center	53.18	0	#5	#4	#4	1.5
9C-2(3)	center	77.26	0	#5	#4	#4	1.5
9C-3	center	27.32	0	#5	#4	#4	1.5

Design Strip: Latitude SSSs Table (2)

Top Cover inches	Bot. Cover inches	Torsion Design	System	Min Bar Loc.	Min T. Bar	Min B. Bar	Shear Legs
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	4
	0.75	none	two-way slab	elevated	0	0	4
	0.75	none	two-way slab	elevated	0	0	4
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	beam	stress	0	0	4
	0.75	none	beam	stress	0	0	4
	0.75	none	beam	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	beam	elevated	0	0	4
	0.75	none	beam	elevated	0	0	4
	0.75	none	beam	elevated	0	0	4
	0.75	none	beam	elevated	0	0	4
	0.75	none	beam	elevated	0	0	4

Design Strip: Longitude SSSs Table

Name	*Strip Type*	*Calc. Trib. Area ft²*	*Calc. Infl. Area ft²*	*Top Bar*	*Bottom Bar*	*Shear Bar*	*Top Cover inches*
10C-1	center	257	0	#5	#4	#4	1.5
10C-2	center	53.87	0	#5	#4	#4	1.5
10C-3	center	330.2	0	#5	#4	#4	1.5
10C-4	center	260.5	0	#5	#4	#4	1.5
11C-1	center	443.6	0	#5	#4	#4	1.5
11C-2	center	445.3	0	#5	#4	#4	1.5
11C-3	center	451.4	0	#5	#4	#4	1.5
11C-4	center	267.9	0	#5	#4	#4	1.5
12C-1	center	629.3	0	#5	#4	#4	1.5
12C-2	center	215.1	0	#5	#4	#4	1.5
13C-1	center	227.3	0	#5	#4	#4	1.5
13C-1(2)	center	317.9	0	#5	#4	#4	1.5
13C-2	center	316.7	0	#5	#4	#4	1.5
13C-3	center	635.5	0	#5	#4	#4	1.5
14C-1	center	287.7	0	#5	#4	#4	1.5
15C-1	center	649.9	0	#5	#4	#4	1.5
16C-1	center	558.2	0	#5	#4	#4	1.5
17C-1	center	196.3	0	#5	#4	#4	1.5
18C-1	center	134.2	0	#5	#4	#4	1.5
18C-2	center	270.2	0	#5	#4	#4	1.5
18C-3	center	225.9	0	#5	#4	#4	1.5
19C-1	center	480.5	0	#5	#4	#4	1.5
20C-1	center	491.8	0	#5	#4	#4	1.5
21C-1	center	159.6	0	#5	#4	#4	1.5
22C-1	center	275.6	0	#5	#4	#4	1
22R-1	right	71.51	0	#5	#4	#4	1.5
23C-1	center	111.7	0	#5	#4	#4	1.5
23C-2	center	39.77	0	#5	#4	#4	1.5

Design Strip: Longitude SSSs Table (2)

Top Cover inches	Bot. Cover inches	Torsion Design	System	Min Bar Loc.	Min T. Bar	Min B. Bar	Shear Legs
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	elevated	0	0	2
	0.75	none	two-way slab	elevated	0	0	4
	0.75	none	two-way slab	elevated	0	0	4
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	elevated	0	0	4
	0.75	none	two-way slab	elevated	0	0	4
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	1	none	beam	bottom	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2
	0.75	none	two-way slab	stress	0	0	2

Design Strip: Punching Checks Table

Number	*Location feet*	*Radius feet*	*Cover To CGS inches*	*Angle degrees*	*Edge*	*Connection*
1	(-200.6,-89.05)	10	1.625	84	failure planes	auto
2	(-198,-65.18)	10	1.625	84	failure planes	auto
3	(-195.5,-41.31)	10	1.625	84	failure planes	auto
4	(-193,-17.44)	10	1.625	84	failure planes	auto
5	(-181.4,-44.55)	10	1.625	-6	failure planes	auto
6	(-177,-67.39)	10	1.625	84	failure planes	auto
7	(-176.8,-92.28)	10	1.625	-6	failure planes	auto
8	(-164.9,-47.89)	10	1.625	84	failure planes	auto
9	(-164.6,-22.53)	10	1.625	90	failure planes	auto
10	(-145.3,-22.83)	13	1.625	90	failure planes	auto
11	(-138.3,-51.38)	10	1.625	90	failure planes	auto
12	(-120.6,-101.9)	10	1.625	90	failure planes	auto
13	(-118.9,-75.16)	10	1.625	0	failure planes	auto
14	(-118.4,-52.35)	10	1.625	0	failure planes	auto
15	(-118.3,-22.84)	15	1.625	90	failure planes	auto
16	(-109.7,-60.83)	10	1.625	90	failure planes	auto
17	(-94.99,-75.16)	10	1.625	0	failure planes	auto
18	(-94.55,-101.9)	10	1.625	90	failure planes	auto
19	(-87.38,-47.22)	10	1.625	0	failure planes	auto
20	(-85.98,-66.03)	10	1.625	0	failure planes	auto
21	(-71.38,-109.1)	10	1.625	22	failure planes	auto
22	(-70.75,-75.58)	10	1.625	90	failure planes	auto
23	(-67.92,-66.08)	10	1.625	0	failure planes	auto
24	(-65.26,-94)	10	1.625	90	failure planes	auto
25	(-60.2,-44.83)	10	1.625	90	failure planes	auto
26	(-41.7,-44.83)	10	1.625	90	failure planes	auto
27	(-19.85,-17.33)	6	1.625	0	failure planes	auto
28	(-5.378,-16.83)	6	1.625	0	failure planes	auto

Design Strip: Punching Checks Table (2)

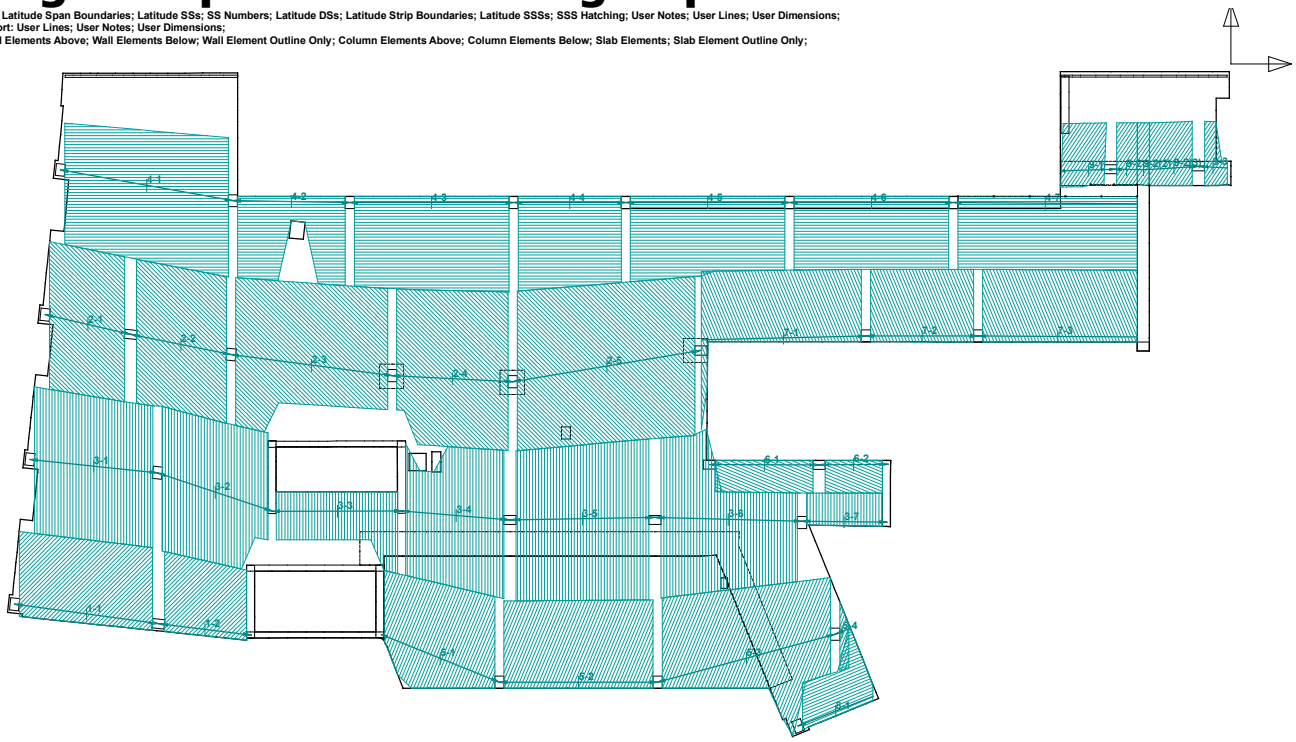
nnection	Use Spec LLR Params	Spec. LLR Levels	Spec. Trib. Area ft²	Spec. Infl. Area ft²	Calc. Trib. Area ft²	Calc. Infl. Area ft²
	false	1	0	0	159.6	0
	false	1	0	0	227.7	0
	false	1	0	0	151.7	0
	false	1	0	0	279	0
	false	1	0	0	432.8	0
	false	1	0	0	489.7	0
	false	1	0	0	247.7	0
	false	1	0	0	465.4	0
	false	1	0	0	479.5	0
	false	1	0	0	312.2	0
	false	1	0	0	602	0
	false	1	0	0	309.7	0
	false	1	0	0	493.5	0
	false	1	0	0	550.4	0
	false	1	0	0	322.8	0
	false	1	0	0	249.3	0
	false	1	0	0	588.9	0
	false	1	0	0	359.7	0
	false	1	0	0	517.8	0
	false	1	0	0	136.1	0
	false	1	0	0	135.7	0
	false	1	0	0	279.5	0
	false	1	0	0	54.29	0
	false	1	0	0	252.6	0
	false	1	0	0	249.8	0
	false	1	0	0	281.3	0
	false	1	0	0	394.4	0
	false	1	0	0	129.5	0

Design Strip: Punching Checks Table (3)

nfl. Area	Max LLR %	Red. Red. %	Stor. Red. %	Park. Red. %
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0
	40	0	0	0

Design Strip: Latitude Design Spans Plan

Design Strip: Latitude Span Boundaries; Latitude SSs; SS Numbers; Latitude DSs; Latitude Strip Boundaries; Latitude SSSs; SSS Hatching; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
Scale = 1:380



Design Strip: Longitude Design Spans Plan

Design Strip: Longitude Span Boundaries; Longitude SSs; Longitude DSs; Longitude Strip Boundaries; Longitude SSSs; SSS Hatching; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
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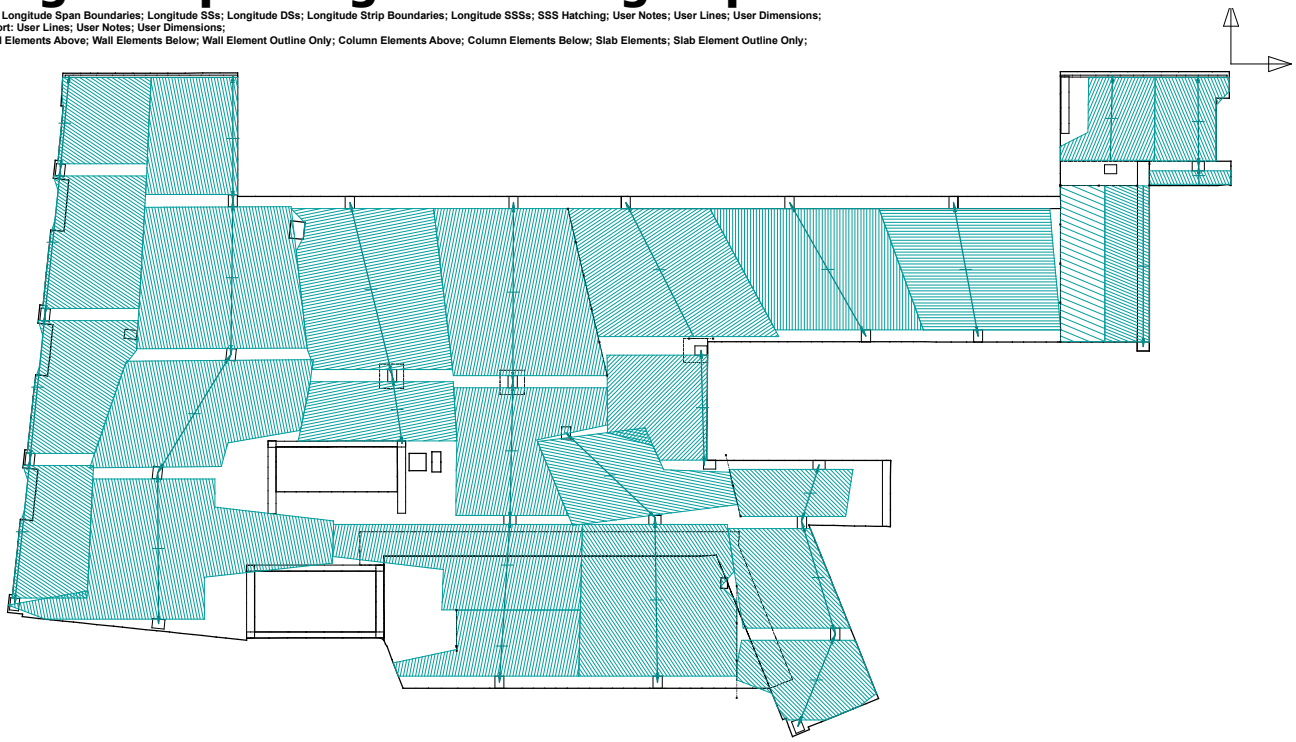
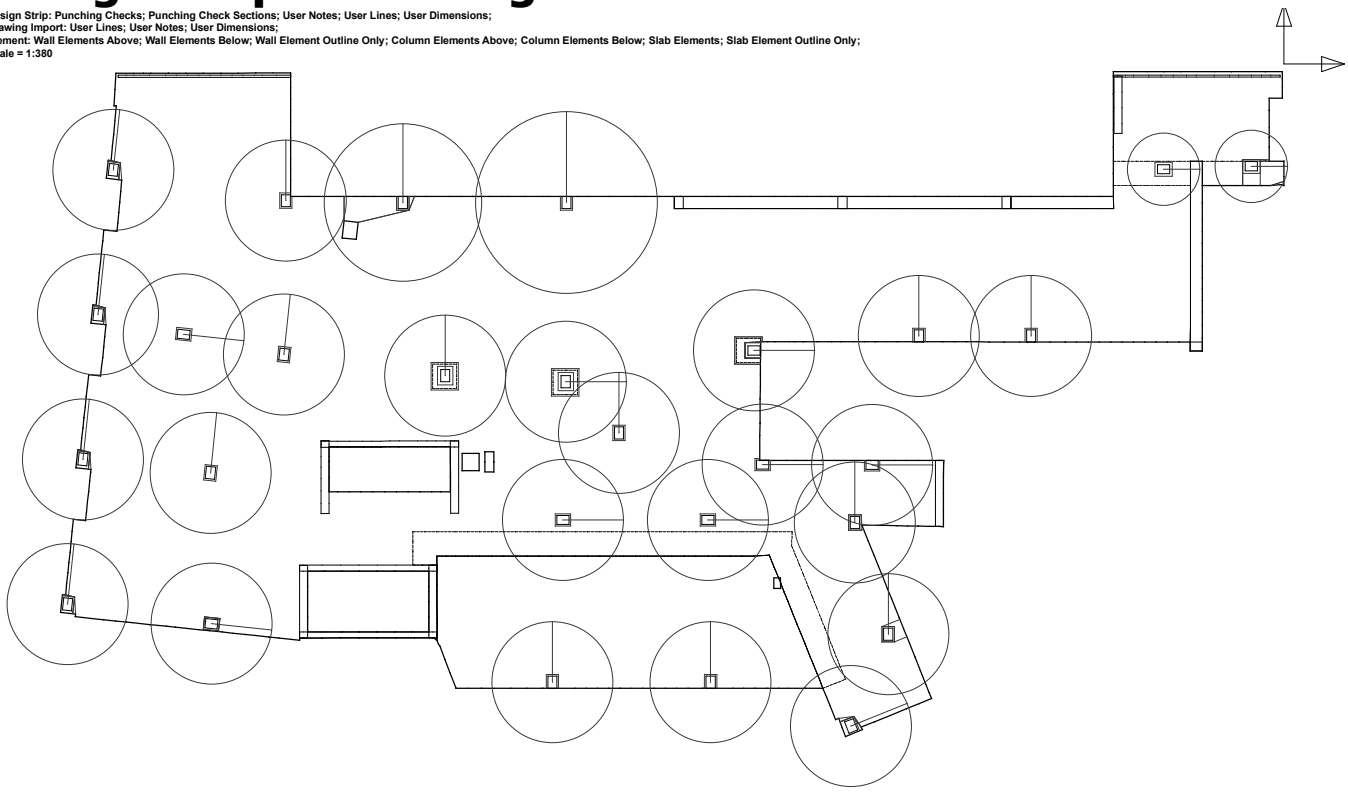


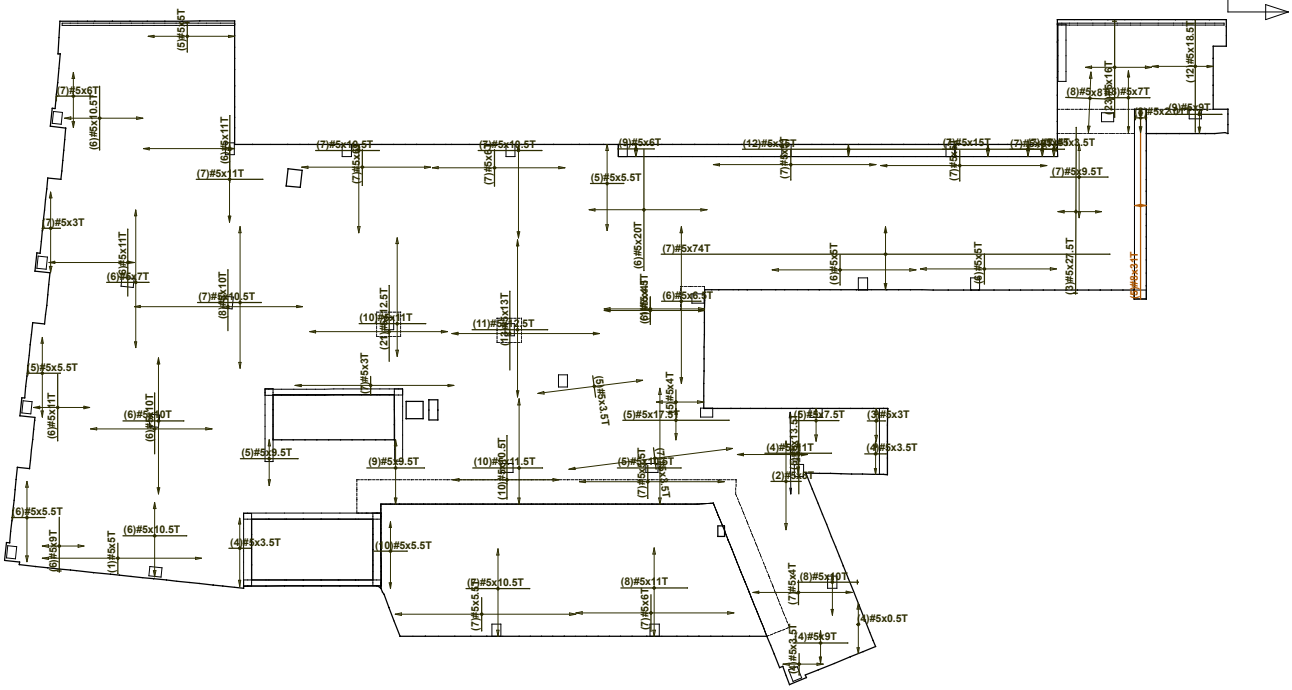
Design Strip: Punching Checks Plan

Design Strip: Punching Checks; Punching Check Sections; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
Scale = 1:380



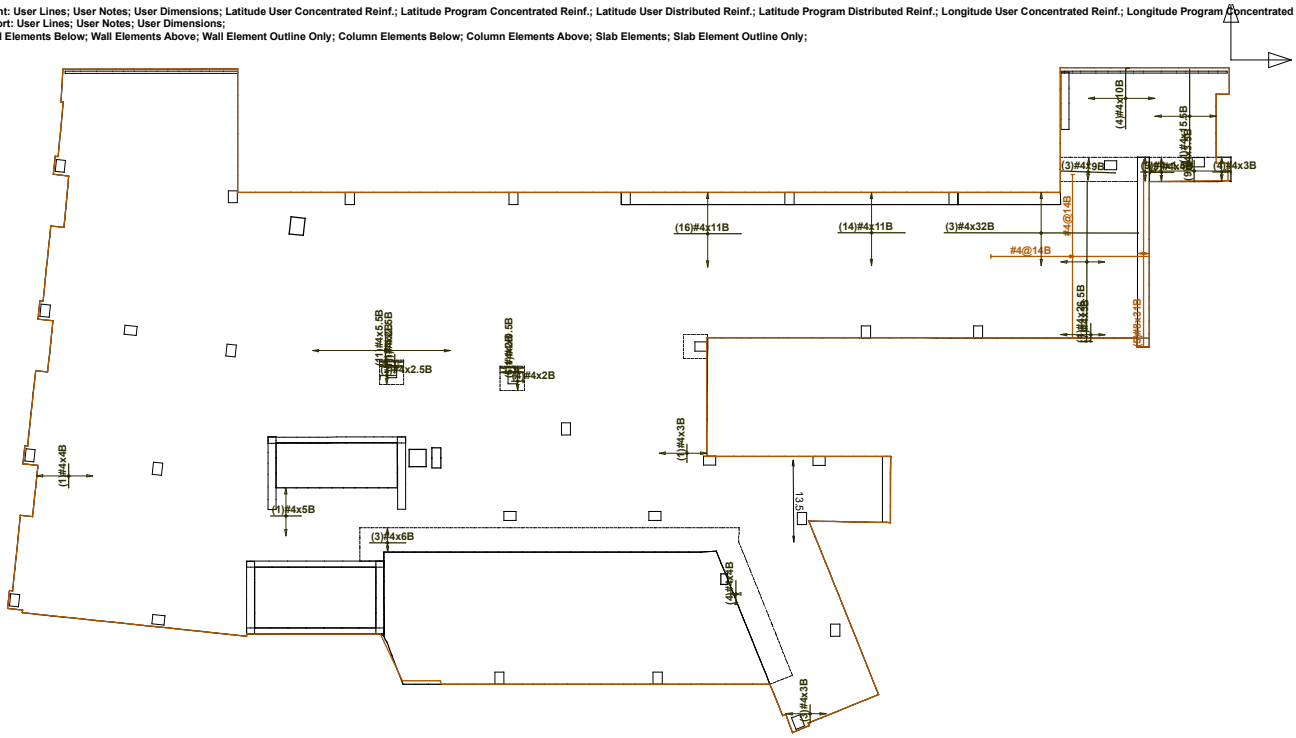
Reinforcement: Top Bars Plan

Reinforcement: User Lines; User Notes; User Dimensions; Latitude User Concentrated Reinf.; Latitude Program Concentrated Reinf.; Latitude User Distributed Reinf.; Latitude Program Distributed Reinf.; Longitude User Concentrated Reinf.; Longitude Program Concentrated Reinf.
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Below; Wall Elements Above; Wall Element Outline Only; Column Elements Below; Column Elements Above; Slab Elements; Slab Element Outline Only;
Scale = 1:380



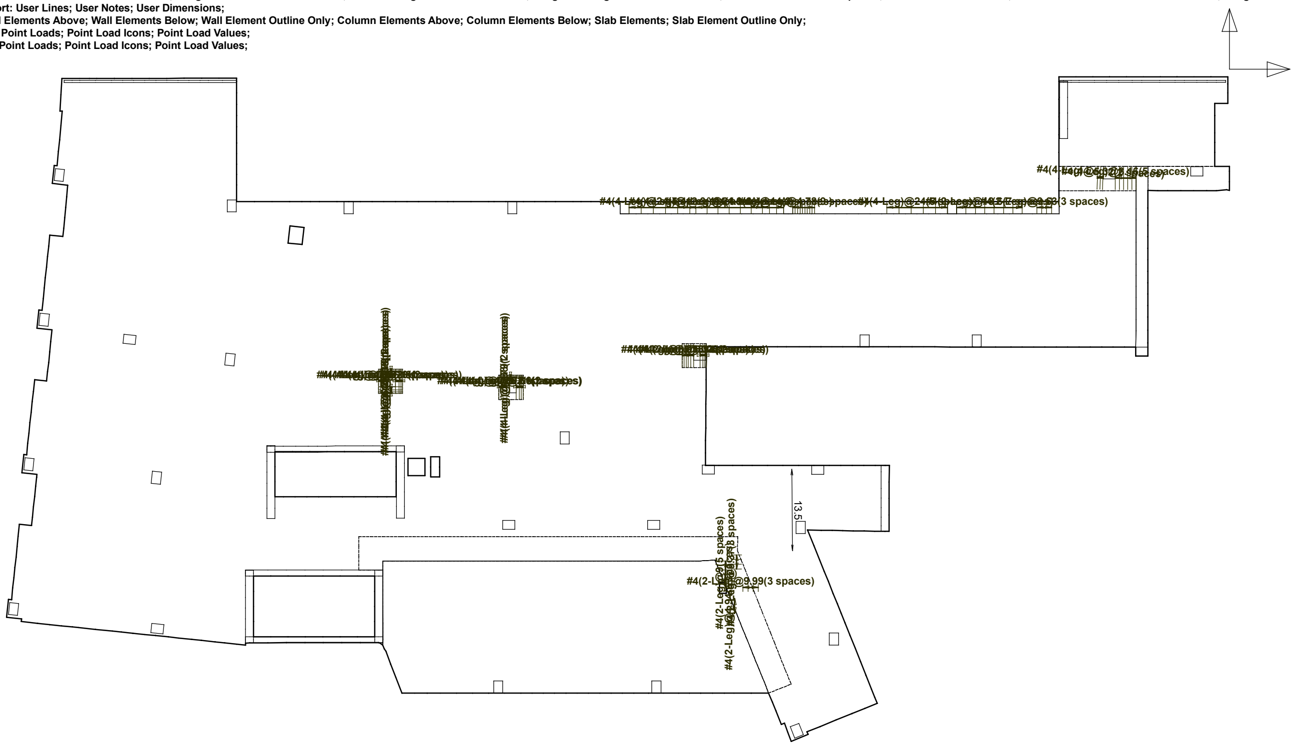
Reinforcement: Bottom Bars Plan

Reinforcement: User Lines; User Notes; User Dimensions; Latitude User Concentrated Reinf.; Latitude Program Concentrated Reinf.; Latitude User Distributed Reinf.; Latitude Program Distributed Reinf.; Longitude User Concentrated Reinf.; Longitude Program Concentrated Reinf.
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Below; Wall Elements Above; Wall Element Outline Only; Column Elements Below; Column Elements Above; Slab Elements; Slab Element Outline Only;
Scale = 1:380



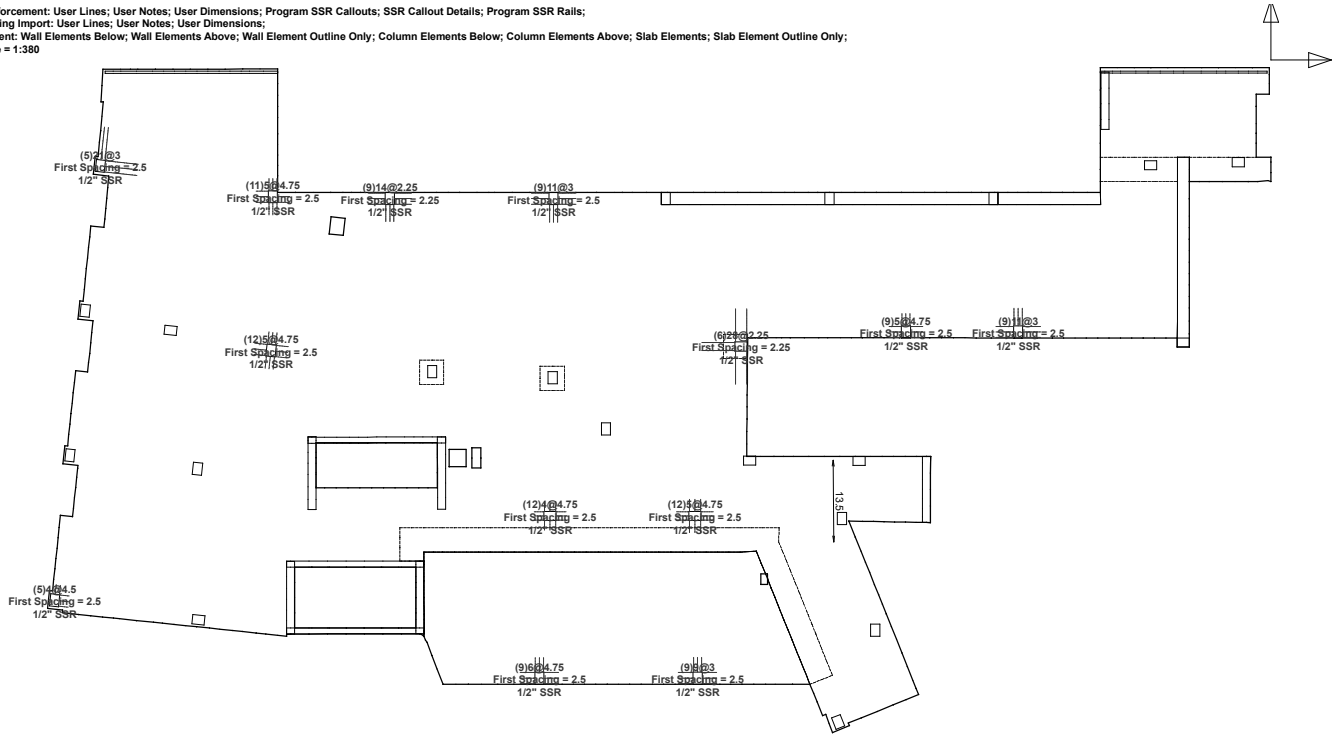
Reinforcement: Shear Bars Plan

Reinforcement: Latitude User Transverse Reinf.; Longitude User Transverse Reinf.; Latitude Program Transverse Reinf.; Longitude Program Transverse Reinf.; Transverse Reinf. Descriptions; Transverse Reinf. Extent; Latitude User Individual Transverse Bars; Longitude User Indiv
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
Seismic E/W: Point Loads; Point Load Icons; Point Load Values;
Seismic N/S: Point Loads; Point Load Icons; Point Load Values;
Scale = 1:380



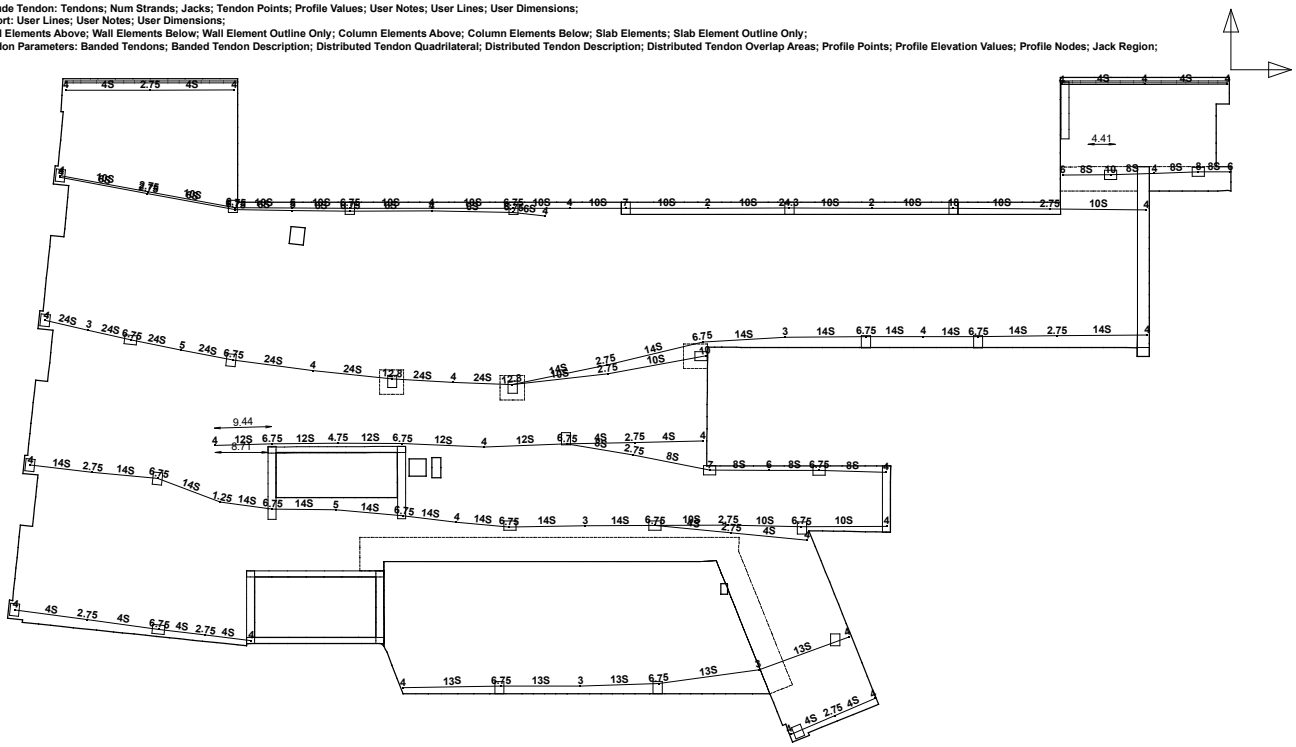
Reinforcement: SSR Plan

Reinforcement: User Lines; User Notes; User Dimensions; Program SSR Callouts; SSR Callout Details; Program SSR Rails;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Below; Wall Elements Above; Wall Element Outline Only; Column Elements Below; Column Elements Above; Slab Elements; Slab Element Outline Only;
Scale = 1:380



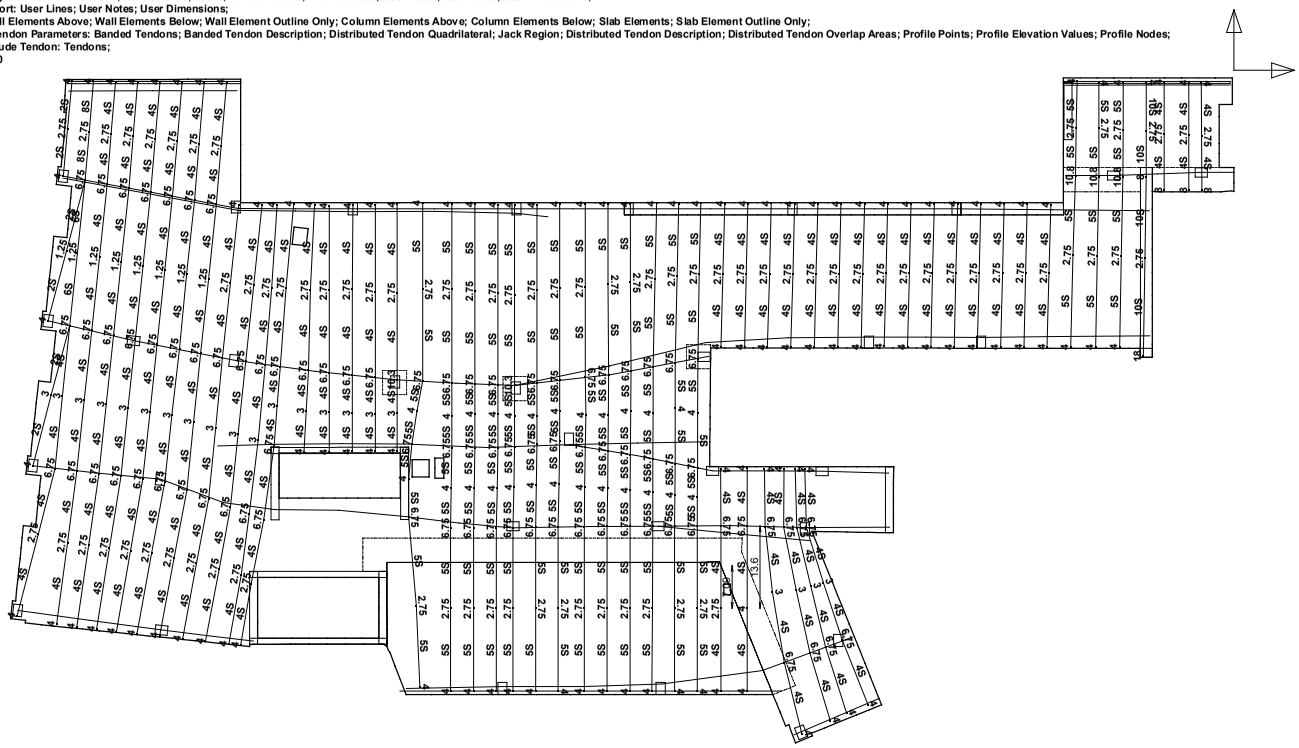
Manual Latitude Tendon: Standard Plan

Manual Latitude Tendon: Tendons; Num Strands; Jacks; Tendon Points; Profile Values; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
Latitude Tendon Parameters: Banded Tendons; Banded Tendon Description; Distributed Tendon Quadrilateral; Distributed Tendon Description; Distributed Tendon Overlap Areas; Profile Points; Profile Elevation Values; Profile Nodes; Jack Region;
Scale = 1:380



Manual Longitude Tendon: Standard Plan

Manual Longitude Tendon: Tendons; Num Strands; Jacks; Tendon Points; Profile Values; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
Longitude Tendon Parameters: Banded Tendons; Banded Tendon Description; Distributed Tendon Quadrilateral; Jack Region; Distributed Tendon Description; Distributed Tendon Overlap Areas; Profile Points; Profile Elevation Values; Profile Nodes;
Manual Latitude Tendon: Tendons;
Scale = 1:380



Service Design: Top Stress Plan

Service Design: Latitude Span Designs; Longitude Span Designs; Latitude DS Designs; Longitude DS Designs; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
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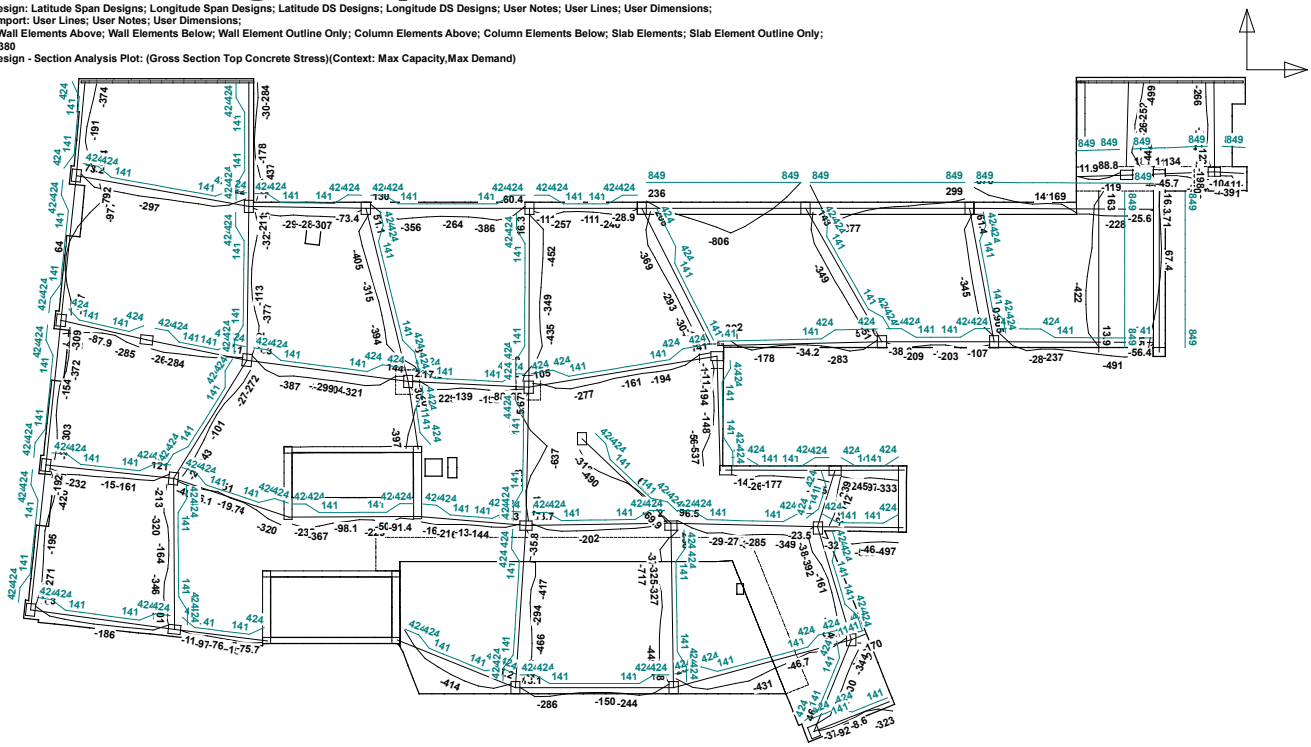
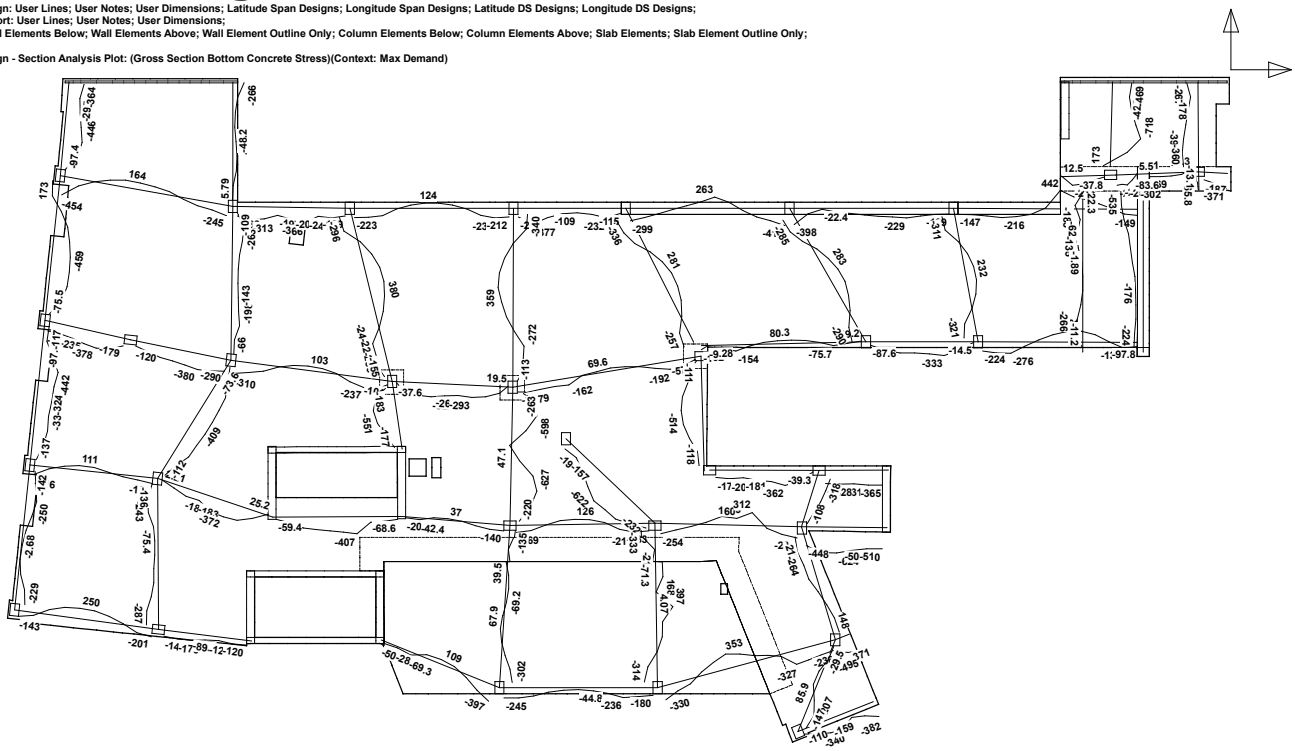
Service Design - Section Analysis Plot: (Gross Section Top Concrete Stress)(Context: Max Capacity,Max Demand)



Service Design: Bottom Stress Plan

Service Design: User Lines; User Notes; User Dimensions; Latitude Span Designs; Longitude Span Designs; Latitude DS Designs; Longitude DS Designs;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Below; Wall Elements Above; Wall Element Outline Only; Column Elements Below; Column Elements Above; Slab Elements; Slab Element Outline Only;
Scale = 1:380
Service Design - Section Analysis Plot: (Gross Section Bottom Concrete Stress)(Context: Max Demand)



Strength Design: Punching Shear Status Plan

Strength Design: User Lines; User Notes; User Dimensions; PC Designs; PC Design Numbers; PC Design Status; PC Design Stress Ratios; PC Design Sections;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Below; Wall Elements Above; Wall Element Outline Only; Column Elements Below; Column Elements Above; Slab Elements; Slab Element Outline Only;
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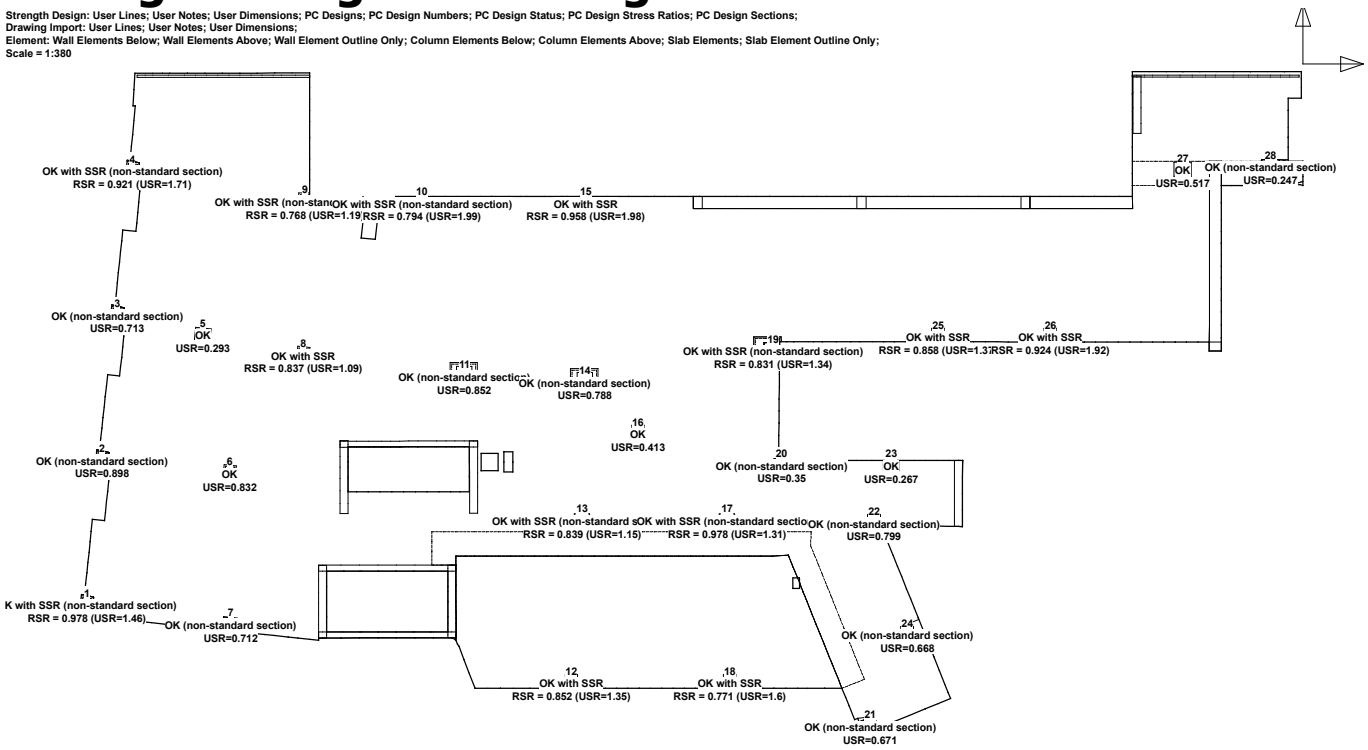
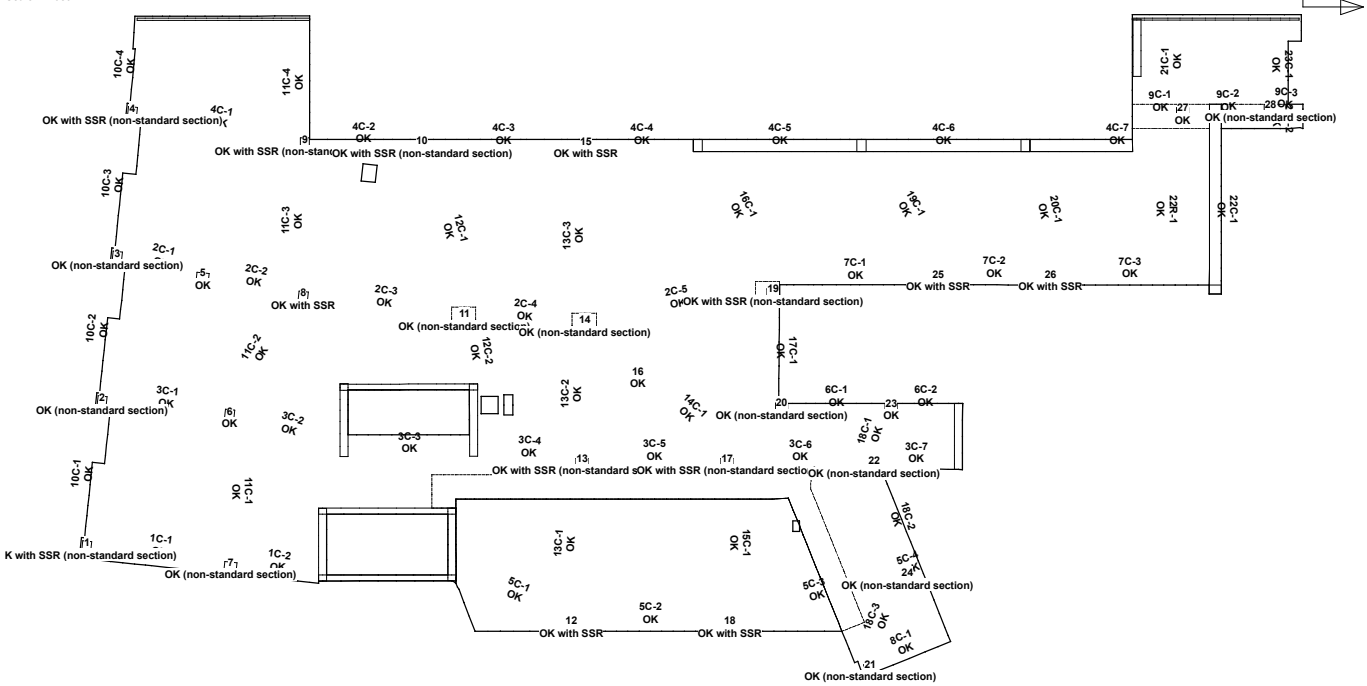
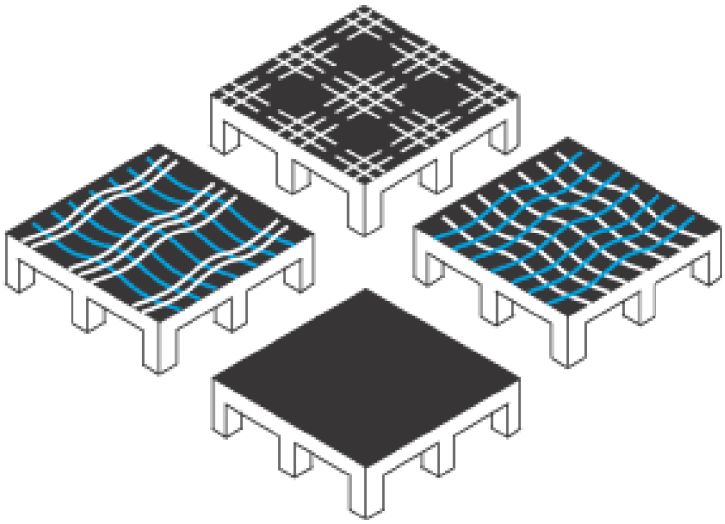


Design Status: Status Plan

Design Status: Latitude Span Designs; Longitude Span Designs; Span Design Numbers; Span Design Status; Latitude DS Designs; Longitude DS Designs; DS Design Numbers; DS Design Status; PC Designs; PC Design Numbers; PC Design Status; User Notes; User Lines; User Di
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
Scale = 1:380





Level 3.30.cpt
1/7/2020

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Units

Geometry Units

Plan Dimensions: feet
Angles: degrees

Slab Thickness: inches
Elevations: inches

Support Dimensions: inches
Support Height: feet

Loading and Reaction Units

Point Force: Kips
- Report As Zero: 0 Kips

Point Moment: kip-ft
- Report As Zero: 0 kip-ft

Line Force: kips/ft
- Report As Zero: 0 kips/ft

Line Moment: Kips
- Report As Zero: 0 Kips

Area Force: psf
- Report As Zero: 0 psf

Area Moment: #/foot
- Report As Zero: 0 #/foot

Spring and Stiffness Units

Point Force Spring: kips/in
Point Moment Spring: k-ft/°

Line Force Spring: ksi
Line Moment Spring: k/°

Area Force Spring: pci
Area Moment Spring: k/ft°

Slab Analysis Units

Force: Kips
- Report As Zero: 0 Kips

Force Per Width: kips/ft
- Report As Zero: 0 kips/ft

Moment: kip-ft
- Report As Zero: 0 kip-ft

Moment Per Width: Kips
- Report As Zero: 0 Kips

Concrete Stress: psi
- Report As Zero: 0 psi

Deflection: inches
- Report As Zero: 0 inches

Materials Units

Concrete Volume: yd^3
Reinforcement Weight: tons
PT Weight: pounds

Reinforcing Area: in^2
Tendon Profile: inches
Cover: inches

PT Force: Kips
Reinforcing Stress: ksi

Miscellaneous Units

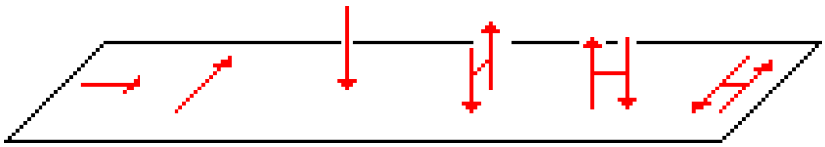
Floor Area: ft^2
Tendon Angles (for friction): radians

Density: pcf

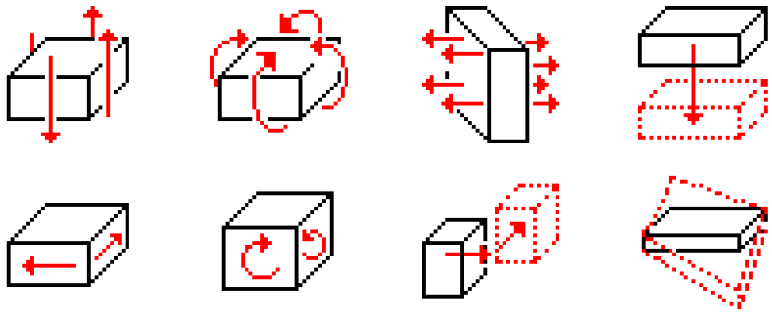
Elongations: inches

Signs

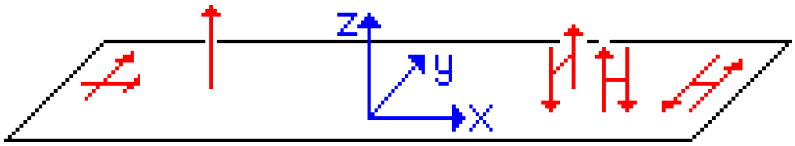
Positive Loads



Positive Analysis



Positive Reactions



Materials

Concrete Mix

Mix Name	Density (pcf)	Density For Loads (pcf)	f'ci (psi)	f'c (psi)	fcui (psi)	fcu (psi)	Poissons Ratio	Ec Calc	User Eci (psi)	User Ec (psi)
3000 psi	150	150	3000	3000	3725	3725	0.2	Code	2500000	3000000
4000 psi	150	150	3000	4000	3725	4975	0.2	Code	2500000	3000000
5000 psi	150	150	3000	5000	3725	6399	0.2	Code	2500000	3000000
6000 psi	150	150	3000	6000	3725	7450	0.2	Code	2500000	3000000

PT Systems

System Name	Type	Aps (in^2)	Eps (ksi)	fse (ksi)	fpy (ksi)	fpu (ksi)	Duct Width (inches)	Strands Per Duct	Min Radius (feet)
½" Unbonded	unbonded	0.153	28000	175	243	270	0.5	1	6
½" Bonded	bonded	0.153	28000	160	243	270	3	4	6
0.6" Unbonded	unbonded	0.217	28000	175	243	270	0.6	1	8
0.6" Bonded	bonded	0.217	28000	160	243	270	4	4	8

PT Stressing Parameters

System Name	Jacking Stress (ksi)	Seating Loss (inches)	Anchor Friction	Wobble Friction (1/feet)	Angular Friction (1/radians)	Long-Term Losses (ksi)
½" Unbonded	216	0.25	0	0.0014	0.07	22
½" Bonded	216	0.25	0.02	0.001	0.2	22
0.6" Unbonded	216	0.25	0	0.0014	0.07	22
0.6" Bonded	216	0.25	0.02	0.001	0.2	22

Reinforcing Bars

Bar Name	As (in^2)	Es (ksi)	Fy (ksi)	Coating	Straight Ld/Db	90 Hook Ld/Db	180 Hook Ld/Db
#3	0.11	29000	60	None	Code	Code	Code
#4	0.2	29000	60	None	Code	Code	Code
#5	0.31	29000	60	None	Code	Code	Code
#6	0.44	29000	60	None	Code	Code	Code
#7	0.6	29000	60	None	Code	Code	Code
#8	0.79	29000	60	None	Code	Code	Code
#9	1	29000	60	None	Code	Code	Code
#10	1.27	29000	60	None	Code	Code	Code
#11	1.56	29000	60	None	Code	Code	Code

Materials (2)

SSR Systems

SSR System Name	*Stud Area (in²)*	*Head Area (in²)*	*Min Clear Head Spacing (inches)*	*Specified Stud Spacing (inches)*	*Fy (ksi)*	*Stud Spacing Rounding Increment (inches)*	*Min Studs Per Rail*	*System Type*
3/8" SSR	0.11	1.11	0.5	None	50	0.25	2	Rail
1/2" SSR	0.196	1.96	0.5	None	50	0.25	2	Rail
5/8" SSR	0.307	3.07	0.5	None	50	0.25	2	Rail
3/4" SSR	0.442	4.42	0.5	None	50	0.25	2	Rail
Ancon Shearfix Auto-Size	0.1217	1.096	0.5906	None	72.52	0.03937	2	Rail
Ancon Shearfix 10 mm	0.1217	1.096	0.5906	None	72.52	0.03937	2	Rail
Ancon Shearfix 12 mm	0.1753	1.578	0.5906	None	72.52	0.03937	2	Rail
Ancon Shearfix 14 mm	0.2386	2.147	0.5906	None	72.52	0.03937	2	Rail
Ancon Shearfix 16 mm	0.3116	2.805	0.5906	None	72.52	0.03937	2	Rail
Ancon Shearfix 20 mm	0.4869	4.383	0.5906	None	72.52	0.03937	2	Rail
Ancon Shearfix 24 mm	0.7012	6.311	0.5906	None	72.52	0.03937	2	Rail

Loadings

Loading Name	*Type*	*Analysis*	*On-Pattern Factor*	*Off-Pattern Factor*
Self-Dead Loading	Self-Weight	Normal	1	1
Balance Loading	Balance	Normal	1	1
Hyperstatic Loading	Hyperstatic	Hyperstatic	1	1
Temporary Construction (At Stressing) Loading	Stressing Dead	Normal	1	1
Other Dead Loading	Dead	Normal	1	1
Live (Reducible) Loading	Live (Reducible)	Normal	1	0
Live (Unreducible) Loading	Live (Unreducible)	Normal	1	0
Live (Storage) Loading	Live (Storage)	Normal	1	0
Live (Parking) Loading	Live (Parking)	Normal	1	0
Live (Roof) Loading	Live (Roof)	Normal	1	0
Snow Loading	Snow	Normal	1	1
Seismic E/W	Ultimate Seismic 1 (transfer)	Normal	1	0
Seismic N/S	Ultimate Seismic 1 (transfer)	Normal	1	0

Load Combinations

All Dead LC

Active Design Criteria: <none>
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1	1
Other Dead Loading	1	1

Dead + Balance LC

Active Design Criteria: <none>
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1	1
Balance Loading	1	1
Other Dead Loading	1	1

Initial Service LC

Active Design Criteria: Initial Service Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1	1
Balance Loading	1.13	1.13
Temporary Construction (At Stressing) Loading	1	1

Service LC: D + L

Active Design Criteria: User Minimum Design, Code Minimum Design, Service Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1	1
Balance Loading	1	1
Other Dead Loading	1	1
Live (Reducible) Loading	1	0
Live (Unreducible) Loading	1	0
Live (Storage) Loading	1	0
Live (Parking) Loading	1	0

Service LC: D + Lr

Active Design Criteria: User Minimum Design, Code Minimum Design, Service Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1	1
Balance Loading	1	1
Other Dead Loading	1	1
Live (Roof) Loading	1	0

Load Combinations (2)

Service LC: D + S

Active Design Criteria: User Minimum Design, Code Minimum Design, Service Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1	1
Balance Loading	1	1
Other Dead Loading	1	1
Snow Loading	1	0

Service LC: D + 0.75L + 0.75Lr

Active Design Criteria: User Minimum Design, Code Minimum Design, Service Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1	1
Balance Loading	1	1
Other Dead Loading	1	1
Live (Reducible) Loading	0.75	0
Live (Unreducible) Loading	0.75	0
Live (Storage) Loading	0.75	0
Live (Parking) Loading	0.75	0
Live (Roof) Loading	0.75	0

Service LC: D + 0.75L + 0.75S

Active Design Criteria: User Minimum Design, Code Minimum Design, Service Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1	1
Balance Loading	1	1
Other Dead Loading	1	1
Live (Reducible) Loading	0.75	0
Live (Unreducible) Loading	0.75	0
Live (Storage) Loading	0.75	0
Live (Parking) Loading	0.75	0
Snow Loading	0.75	0

Sustained Service LC

Active Design Criteria: Sustained Service Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1	1
Balance Loading	1	1
Other Dead Loading	1	1
Live (Reducible) Loading	0.5	0.5
Live (Unreducible) Loading	0.5	0.5
Live (Storage) Loading	1	1
Live (Parking) Loading	0.5	0.5
Live (Roof) Loading	0.5	0.5

Load Combinations (3)

Factored LC: 1.4D

Active Design Criteria: User Minimum Design, Code Minimum Design, Strength Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.4	0.9
Hyperstatic Loading	1	1
Other Dead Loading	1.4	0.9

Factored LC: 1.2D + 1.6L + 0.5Lr

Active Design Criteria: User Minimum Design, Code Minimum Design, Strength Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.2	0.9
Hyperstatic Loading	1	1
Other Dead Loading	1.2	0.9
Live (Reducible) Loading	1.6	0
Live (Unreducible) Loading	1.6	0
Live (Storage) Loading	1.6	0
Live (Parking) Loading	1.6	0
Live (Roof) Loading	0.5	0

Factored LC: 1.2D + f1L + 1.6Lr

Active Design Criteria: User Minimum Design, Code Minimum Design, Strength Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.2	0.9
Hyperstatic Loading	1	1
Other Dead Loading	1.2	0.9
Live (Reducible) Loading	0.5	0
Live (Unreducible) Loading	1	0
Live (Storage) Loading	1	0
Live (Parking) Loading	1	0
Live (Roof) Loading	1.6	0

Factored LC: 1.2D + 1.6L + 0.5S

Active Design Criteria: User Minimum Design, Code Minimum Design, Strength Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.2	0.9
Hyperstatic Loading	1	1
Other Dead Loading	1.2	0.9
Live (Reducible) Loading	1.6	0
Live (Unreducible) Loading	1.6	0
Live (Storage) Loading	1.6	0
Live (Parking) Loading	1.6	0
Snow Loading	0.5	0

Load Combinations (4)

Factored LC: 1.2D + f1L + 1.6S

Active Design Criteria: User Minimum Design, Code Minimum Design, Strength Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.2	0.9
Hyperstatic Loading	1	1
Other Dead Loading	1.2	0.9
Live (Reducible) Loading	0.5	0
Live (Unreducible) Loading	1	0
Live (Storage) Loading	1	0
Live (Parking) Loading	1	0
Snow Loading	1.6	0

Long Term deflection

Active Design Criteria: <none>
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	3.35	3.35
Balance Loading	3.35	3.35
Other Dead Loading	3.35	3.35
Live (Unreducible) Loading	2	2
Snow Loading	1	1

Earthquake N-S: (1.2+.2*Sds)D + 2.5E + 0.5L+0.2S

Active Design Criteria: Strength Design, Code Minimum Design, User Minimum Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.344	1.344
Hyperstatic Loading	1	1
Other Dead Loading	1.344	1.344
Live (Unreducible) Loading	0.5	0.5
Snow Loading	0.2	0.2
Seismic N/S	2.5	2.5

Earthquake N-S: (0.9-0.2*Sds)D + 2.5E

Active Design Criteria: Strength Design, Code Minimum Design, User Minimum Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	0.756	0.756
Hyperstatic Loading	1	1
Other Dead Loading	0.756	0.756
Seismic N/S	2.5	2.5

Load Combinations (5)

Earthquake E-W: (1.2+0.2*Sds)D + 2.5E + 0.5L+0.2S

Active Design Criteria: Strength Design, Code Minimum Design, User Minimum Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.344	1.344
Hyperstatic Loading	1	1
Other Dead Loading	1.344	1.344
Live (Unreducible) Loading	0.5	0.5
Snow Loading	0.2	0.2
Seismic E/W	2.5	2.5

Earthquake E-W: (0.9-0.2*Sds)D + 2.5E

Active Design Criteria: Strength Design, Code Minimum Design, User Minimum Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	0.756	0.756
Hyperstatic Loading	1	1
Other Dead Loading	0.756	0.756
Seismic E/W	2.5	2.5

Earthquake N-S: (1.0+0.14*Sds)D + 1.75E

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.101	1.101
Balance Loading	1	1
Other Dead Loading	1.101	1.101
Seismic N/S	1.75	1.75

Earthquake N-S: (1.0+0.105*Sds)D + 1.3125E + 0.75L + 0.75S

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.076	1.076
Balance Loading	1	1
Other Dead Loading	1.076	1.076
Live (Unreducible) Loading	0.75	0.75
Snow Loading	0.75	0.75
Seismic N/S	1.313	1.313

Load Combinations (6)

Earthquake N-S: (0.6-0.14*Sds)D + 1.75E

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	0.499	0.499
Balance Loading	1	1
Other Dead Loading	0.899	0.899
Seismic N/S	1.75	1.75

Earthquake E-W: (1.0+0.14*Sds)D + 1.75E

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.101	1.101
Balance Loading	1	1
Other Dead Loading	1.101	1.101
Seismic E/W	1.75	1.75

Earthquake E-W: (1.0+0.105*Sds)D + 1.3125E + 0.75L+0.75S

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.076	1.076
Balance Loading	1	1
Other Dead Loading	1.076	1.076
Live (Unreducible) Loading	0.75	0.75
Snow Loading	0.75	0.75
Seismic E/W	1.313	1.313

Earthquake N-S: (1.2+0.2*Sds)D - 2.5E + .5L + 0.2S

Active Design Criteria: Strength Design, Code Minimum Design, User Minimum Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.344	1.344
Hyperstatic Loading	1	1
Other Dead Loading	1.344	1.344
Live (Unreducible) Loading	0.5	0.5
Snow Loading	0.2	0.2
Seismic N/S	-2.5	-2.5

Load Combinations (7)

Earthquake N-S: (0.9-0.2*Sds)D - 2.5E

Active Design Criteria: Strength Design, Code Minimum Design, User Minimum Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	0.756	0.756
Hyperstatic Loading	1	1
Other Dead Loading	0.756	0.756
Seismic N/S	-2.5	-2.5

Earthquake E-W: (1.2+0.2*Sds)D - 2.5E + .5L + 0.2S

Active Design Criteria: Strength Design, Code Minimum Design, User Minimum Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.344	1.344
Hyperstatic Loading	1	1
Other Dead Loading	1.344	1.344
Live (Unreducible) Loading	0.5	0.5
Snow Loading	0.2	0.2
Seismic E/W	-2.5	-2.5

Earthquake E-W: (0.9-0.2*Sds)D - 2.5E

Active Design Criteria: Strength Design, Code Minimum Design, User Minimum Design, Ductility Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	0.756	0.756
Hyperstatic Loading	1	1
Other Dead Loading	0.756	0.756
Seismic E/W	-2.5	-2.5

Earthquake N-S: (1.0+0.14*Sds)D - 1.75E

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.101	1.101
Balance Loading	1	1
Other Dead Loading	1.101	1.101
Seismic N/S	-1.75	-1.75

Load Combinations (8)

Earthquake N-S: (1.0+0.105*Sds)D - 1.3125E + 0.75L+.75S

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.076	1.076
Balance Loading	1	1
Other Dead Loading	1.076	1.076
Live (Unreducible) Loading	0.75	0.75
Snow Loading	0.75	0.75
Seismic N/S	-1.313	-1.313

Earthquake N-S: (0.6-0.14*Sds)D - 1.75E

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	0.499	0.499
Balance Loading	1	1
Other Dead Loading	0.899	0.899
Seismic N/S	-1.75	-1.75

Earthquake E-W: (1.0+0.14*Sds)D - 1.75E

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.101	1.101
Balance Loading	1	1
Other Dead Loading	1.101	1.101
Seismic E/W	-1.75	-1.75

Earthquake E-W: (0.6-0.14*Sds)D + 1.75E

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	0.499	0.499
Balance Loading	1	1
Other Dead Loading	0.899	0.899
Seismic E/W	1.75	1.75

Earthquake E-W: (0.6-0.14*Sds)D - 1.75E

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	0.499	0.499
Balance Loading	1	1
Other Dead Loading	0.899	0.899
Seismic E/W	-1.75	-1.75

Load Combinations (9)

Earthquake E-W: (1.0+0.105*Sds)D - 1.3125E + 0.75L + 0.75S

Active Design Criteria: Service Design, Code Minimum Design, User Minimum Design
Analysis: Linear

Loading	*Standard Factor*	*Alt. Envelope Factor*
Self-Dead Loading	1.076	1.076
Balance Loading	1	1
Other Dead Loading	1.076	1.076
Live (Unreducible) Loading	0.75	0.75
Snow Loading	0.75	0.75
Seismic E/W	-1.313	-1.313

Design Rules

Code Minimum Desig

318-11 Min. Reinforcement

User Minimum Desig

Specified Min. Reinforcement

Initial Service Desig

318-11 Initial Service Design

Service Design

318-11 Service Design
Include detailed section analysis

Sustained Service Desig

318-11 Sustained Service Design

Strength Design

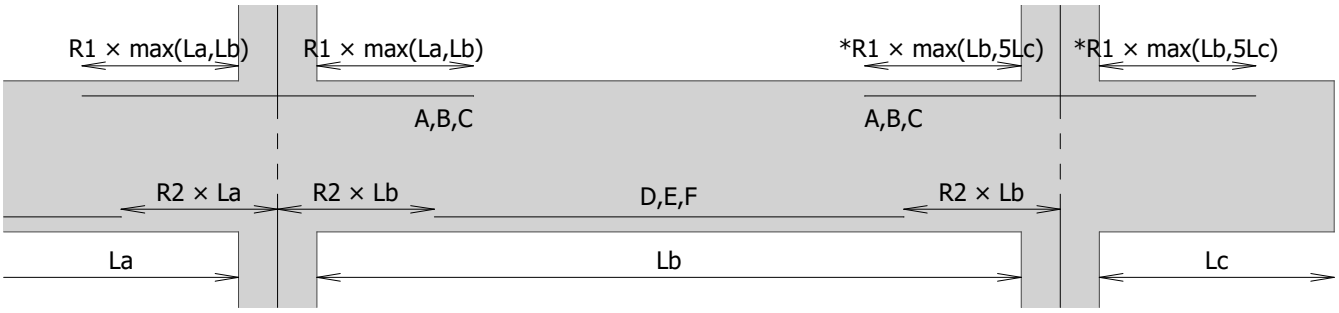
318-11 Strength Design
Punching Shear Design

Ductility Desig

318-11 Ductility Design

Detailing Rules

Custom Span Detailing Rules



Rule Name	*A Fraction*	*A R1*	*B Fraction*	*B R1*	*C Fraction*	*C R1*	*D Fraction*	*D R2*	*E Fraction*	*E R2*	*F Fraction*	*F R2*
None	0	0	0	0	0	0	0	0	0	0	0	0

"A", "B" and "C", are support reinforcement sets, based on the peak reinforcement in the support zone.
"D", "E" and "F", are span reinforcement sets, based on the peak reinforcement in the span zone.
"*R1" is never taken as greater than 0.2 when multiplied by Lc (or Lcc).
"Fraction" is the ratio of set reinforcement to peak reinforcement. It is always in the 0.0 to 1.0 range.

Load History

Load History Step Name	*Load Combination*	*Duration (days)*	*Total Age (days)*
Maximum Short Term Load	Service LC: D + L	30	33
Sustained Load	Sustained Service LC	5000	5033
Final Instantaneous Load	Service LC: D + L	0	5033

Mesh Input: Walls Below Table

Number	Location feet	Mix	Fixed Near	Fixed Far	Comp.	Height feet	Thickness inches
1	(-163.6,-1.647)(-192,-1.576)	5000 psi	false	false	true	10	12
2	(-161.7,-82.62)(-161.7,-59.09)	5000 psi	false	false	true	10	16
3	(-158.1,-62.08)(-158.2,-74.02)	5000 psi	false	false	true	10	16
4	(-139.7,-94.13)(-162.3,-94.03)	5000 psi	false	false	true	10	12
5	(-139.7,-83.13)(-162.3,-83.05)	5000 psi	false	false	true	10	12
6	(-136.1,-62.6)(-158.8,-62.59)	5000 psi	false	false	true	10	12
7	(-161,-1.721)(-123.1,-1.720)	5000 psi	false	false	true	10	12
8	(-140.4,-82.62)(-140.3,-94.62)	5000 psi	false	false	true	10	16
9	(-136.8,-62.11)(-136.7,-74.01)	5000 psi	false	false	true	10	16
10	(-119.9,-1.567)(-67.86,-1.567)	5000 psi	false	false	true	10	12
11	(-56.84,-76.25)(-56.83,-55.03)	5000 psi	false	false	true	10	16
12	(-57.52,-65.84)(-41.13,-55.81)	5000 psi	false	false	true	10	12
13	(-66.17,-1.72)(-29.51,-1.720)	5000 psi	false	false	true	10	12
14	(-34.82,-75.75)(-57.5,-75.74)	5000 psi	false	false	true	10	12
15	(-36.33,-88.13)(-36.33,-55.08)	5000 psi	false	false	true	11	16
16	(-35.54,-65.33)(-35.5,-76.25)	5000 psi	false	false	true	10	16
17	(-27.41,-1.659)(-27.39,-1.104)	5000 psi	false	false	true	11	16
18	(-28.05,-1.658)(-1.22,-1.671)	5000 psi	false	false	true	10	12

Mesh Input: Walls Below Table (2)

ess

Shear Wall	*Use Spec LLR Params*	*Spec. LLR Levels*	*Spec. Trib. Area ft²*	*Spec. Infl. Area ft²*	*Max LLR %*
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40
true	false	1	0	0	40

Mesh Input: Columns Below Table

Number	*Location feet*	*Mix*	*Fixed Near*	*Fixed Far*	*Comp.*	*Height feet*	*B inches*	*D inches*
1	(-200.6,-89.05)	5000 psi	true	true	true	10	18	24
2	(-200.1,-144.6)	5000 psi	true	true	true	10	0	24
3	(-199.1,-134.7)	5000 psi	true	true	true	10	0	24
4	(-198.6,-115.2)	5000 psi	true	true	true	10	24	18
5	(-198,-65.18)	5000 psi	true	true	true	10	18	24
6	(-195.5,-41.31)	5000 psi	true	true	true	10	18	24
7	(-193,-17.44)	5000 psi	true	true	true	10	18	24
8	(-191.6,-151)	5000 psi	true	true	true	10	0	24
9	(-182.2,-147.7)	5000 psi	true	true	true	10	0	24
10	(-180.8,-44.12)	5000 psi	true	true	true	10	24	18
11	(-180.5,-117.1)	5000 psi	true	true	true	10	24	18
12	(-177,-67.39)	5000 psi	true	true	true	10	18	24
13	(-176.8,-92.28)	5000 psi	true	true	true	10	18	24
14	(-166,-123.6)	5000 psi	true	true	true	10	18	24
15	(-164.9,-47.89)	5000 psi	true	true	true	10	18	24
16	(-164.6,-22.53)	5000 psi	true	true	true	10	24	18
17	(-164.2,-141.7)	5000 psi	true	true	true	10	18	24
18	(-145.3,-22.83)	5000 psi	true	true	true	10	18	24
19	(-144.5,-120.4)	5000 psi	true	true	true	10	18	24
20	(-138.3,-51.35)	5000 psi	true	true	true	10	18	24
21	(-138.2,-136)	5000 psi	true	true	true	10	18	24
22	(-135.3,-110.1)	5000 psi	true	true	true	10	18	24
23	(-120.6,-101.9)	5000 psi	true	true	true	10	18	24
24	(-118.9,-75.16)	5000 psi	true	true	true	10	24	18
25	(-118.4,-52.35)	5000 psi	true	true	true	10	18	24
26	(-118.3,-22.83)	5000 psi	true	true	true	10	18	24
27	(-115.9,-127)	5000 psi	true	true	true	10	18	24
28	(-109.7,-60.83)	5000 psi	true	true	true	10	18	24
29	(-99.8,-22.83)	5000 psi	true	true	true	10	18	24
30	(-94.99,-75.16)	5000 psi	true	true	true	10	18	24
31	(-94.55,-101.9)	5000 psi	true	true	true	10	18	24
32	(-93.65,-118.1)	5000 psi	true	true	true	10	18	24
33	(-87.45,-47.25)	5000 psi	true	true	true	10	24	18
34	(-86.02,-66.08)	5000 psi	true	true	true	10	24	18
35	(-84.69,-22.81)	5000 psi	true	true	true	10	18	24
36	(-71.38,-109.1)	5000 psi	true	true	true	10	18	24
37	(-68.7,-22.67)	5000 psi	false	true	true	10	18	24
38	(-67.92,-66.08)	5000 psi	true	true	true	10	24	18
39	(-65.26,-94)	5000 psi	true	true	true	10	18	24
40	(-60.2,-44.83)	5000 psi	true	true	true	10	18	24
41	(-49,-100.5)	5000 psi	true	true	true	10	18	24
42	(-45.8,-22.83)	5000 psi	true	true	true	10	18	24
43	(-41.7,-44.83)	5000 psi	true	true	true	10	18	24
44	(-28.53,-90.28)	5000 psi	true	true	true	10	18	24
45	(-19.02,-17.34)	5000 psi	true	true	true	10	24	18
46	(-14.45,-61.73)	5000 psi	true	true	true	10	24	18

Mesh Input: Columns Below Table (2)

Angle degrees	*Roller*	*I Factor*	*Use Spec LLR Params*	*Spec. LLR Levels*	*Spec. Trib. Area ft²*	*Spec. Infl. Area ft²*
-6	false	1	false	1	0	0
-6	false	1	false	1	0	0
-6	false	1	false	1	0	0
-6	false	1	false	1	0	0
-6	false	1	false	1	0	0
-6	false	1	false	1	0	0
-6	false	1	false	1	0	0
-6	false	1	false	1	0	0
-6	false	1	false	1	0	0
-6	false	1	false	1	0	0
-6	false	1	false	1	0	0
-6	false	1	false	1	0	0
84	false	1	false	1	0	0
-6	false	1	false	1	0	0
-6	false	1	false	1	0	0
90	false	1	false	1	0	0
22	false	1	false	1	0	0
0	false	1	false	1	0	0
22	false	1	false	1	0	0
0	false	1	false	1	0	0
22	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
22	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
90	false	1	false	1	0	0
0	false	1	false	1	0	0
22	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
22	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
112	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0

Mesh Input: Columns Below Table (3)

Infl. Area	Max LLR %
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
	40
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	40
	40

Mesh Input: Columns Below Table (4)

Number	*Location feet*	*Mix*	*Fixed Near*	*Fixed Far*	*Comp.*	*Height feet*	*B inches*	*D inches*
47	(-14.45,-46.58)	5000 psi	true	true	true	10	24	18
48	(-5.364,-16.83)	5000 psi	true	true	true	10	24	18
49	(-5.313,-48.07)	5000 psi	true	true	true	10	24	18
50	(-3.839,-76.3)	5000 psi	true	true	true	10	24	18
51	(-3.5,-61.73)	5000 psi	true	true	true	10	24	18
52	(-1.469,-92.28)	5000 psi	true	true	true	10	18	24

Mesh Input: Columns Below Table (5)

Angle degrees	*Roller*	*I Factor*	*Use Spec LLR Params*	*Spec. LLR Levels*	*Spec. Trib. Area ft²*	*Spec. Infl. Area ft²*
0	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0
0	false	1	false	1	0	0

Mesh Input: Columns Below Table (6)

nfl. Area	*Max LLR %*
	40
	40
	40
	40
	40
	40

Mesh Input: Slab Areas Table

Number	*Location feet*	*Mix*	*Thickness inches*	*TOC inches*	*Priority*	*Behavior*	*R-Axis degrees*
1	(-163.1,-142.3)(-165.7,-1	3508 psi	195.2,-24	7.1)(-192.1,-115.1	0)(-199.5,-12	24.3)(-199.7,-115.8	(-199.3,-115.8)(-200	0,-121.8)(-204.9,-1
2	(-192.3,-1)(-119.5,-1.00	5000 psi	119.5,-52.5	8(-108.2,-52.48)(-10	7.6,-48.52)(-1	79.08,-48.6)(-78.66,-5	2.53)(-67.49,-52	059)(-67.54,-1.012)
3	(-69.54,-1.067)(-69.54,-5	3000 psi	77.54,-50	.46)(-77.54,-46.46)(-	109.5,-46	.46)(-109.5,-50.46	(-117.5,-50.46)(-110	7.5,-1.067)

Mesh Input: Slab Areas Table (2)

s	KMr	KMs	KMrs	KFr	KFs	KVrs
	1	1	1	1	1	1
	1	1	1	1	1	1
	1	1	1	1	1	1

Mesh Input: Beams Table

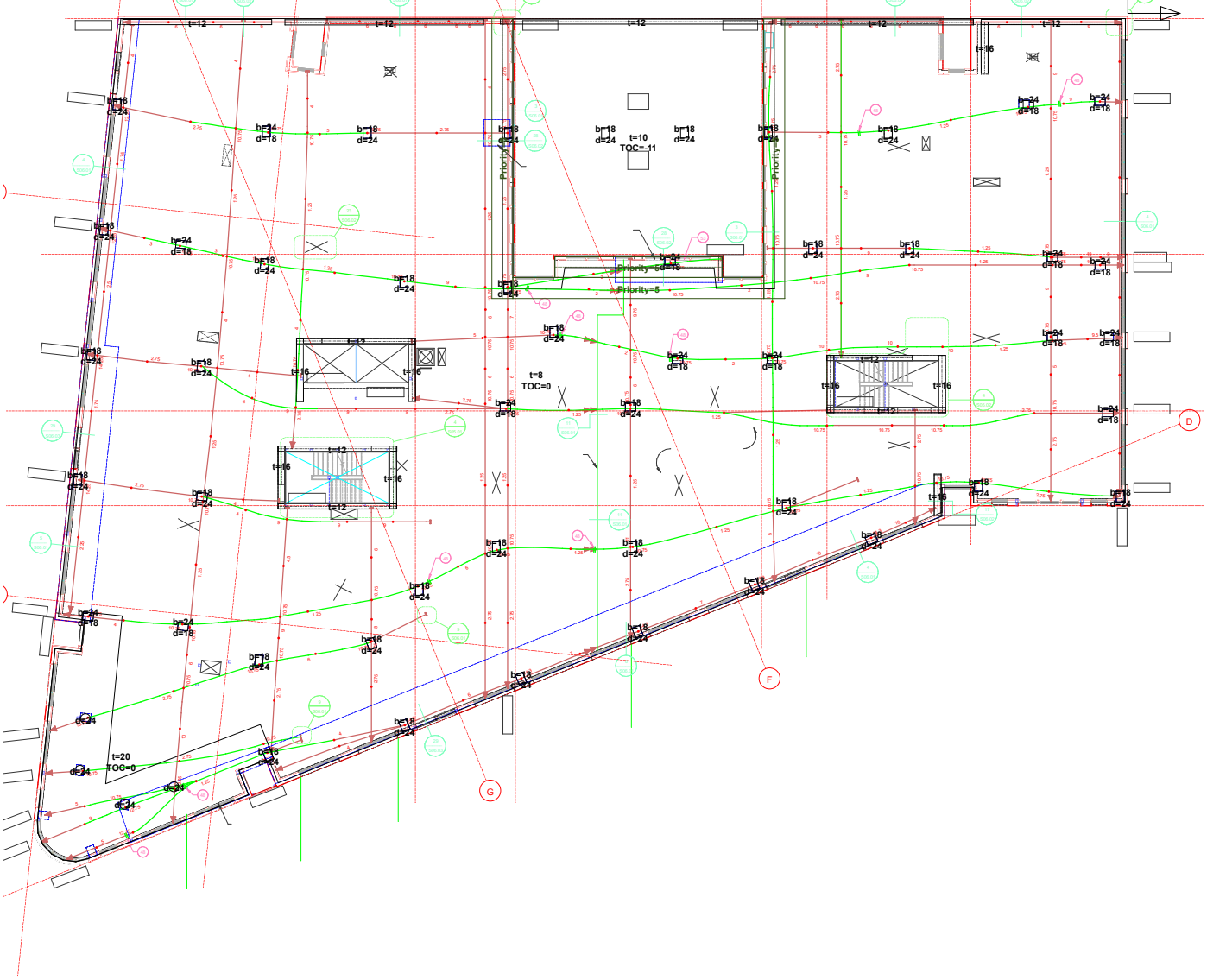
Number	*Location feet*	*Mix*	*Thickness inches*	*TOC inches*	*Priority*	*Mesh As Slab*	*Width inches*
1	(-119.5,-1.007)(-119.5,-54.46)(-117.5,-1.007)(-117.5,-54.46)	5000 psi	12	0	(-121.5,-1.007)(-121.5,-54.46)	true	48
2	(-109.5,-48.46)(-77.54,-48.46)(-109.5,-46.46)(-77.54,-46.46)	5000 psi	12	0	(-109.5,-50.46)(-77.54,-50.46)	true	48
3	(-117.5,-52.46)(-69.53,-52.46)(-117.5,-50.46)(-69.53,-50.46)	5000 psi	12	0	(-117.5,-54.46)(-69.53,-54.46)	true	48
4	(-67.54,-1.012)(-67.54,-54.46)(-65.54,-1.012)(-65.54,-54.46)	5000 psi	12	0	(-69.54,-1.012)(-69.54,-54.46)	true	48

Mesh Input: Beams Table (2)

Width inches	Behavior	KMr	KMs	KMrs	KFr	KFs	KVrs
	no-torsion two-way slab	1	1	0.001	1	1	1
	no-torsion two-way slab	1	1	0.001	1	1	1
	no-torsion two-way slab	1	1	0.001	1	1	1
	no-torsion two-way slab	1	1	0.001	1	1	1

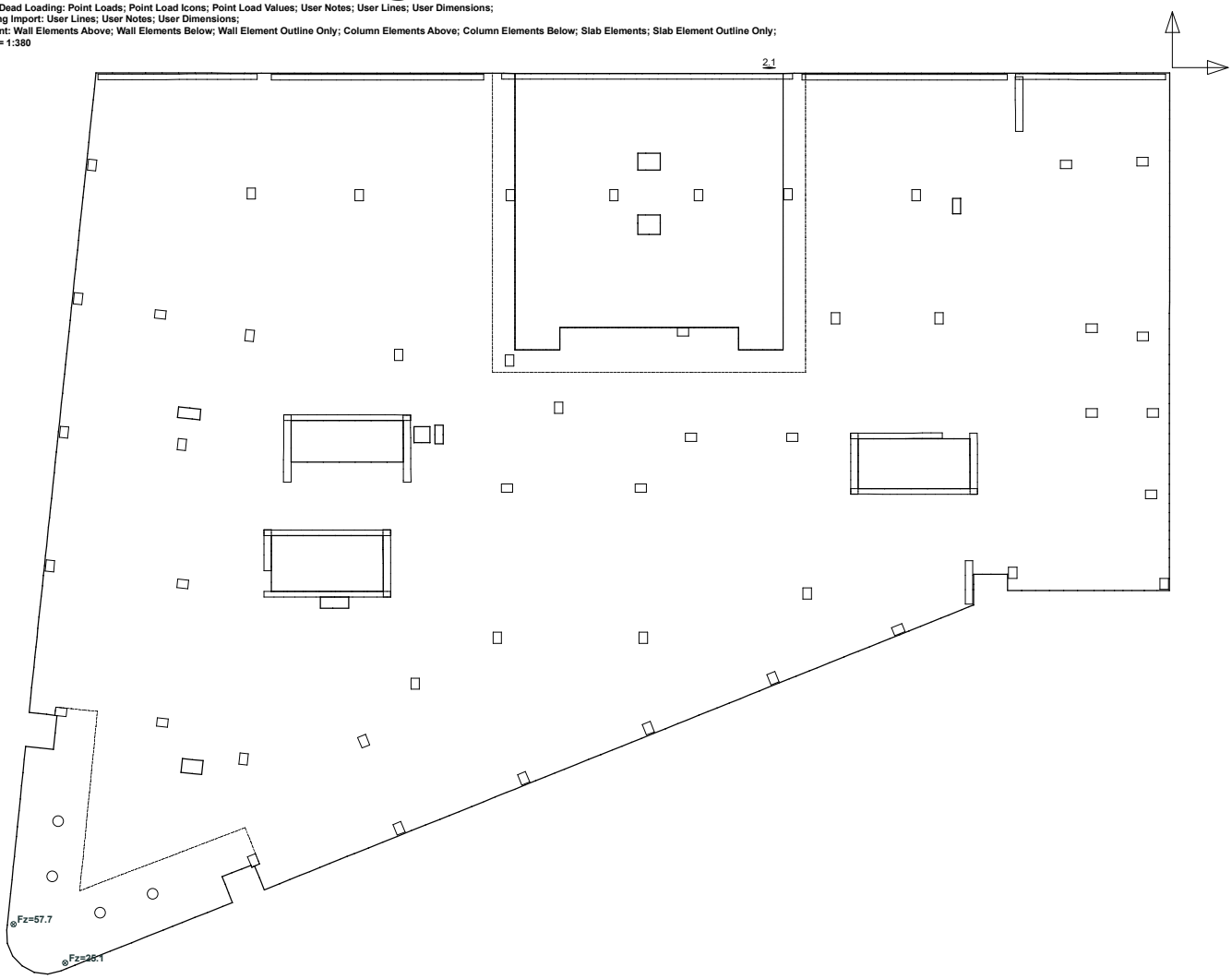
Mesh Input: Standard Plan

Mesh Input: Beams; Beam Priorities; Slab Areas; Slab AreaT hicknesses; Slab Area Elevations; Slab Openings; Point Supports; Point Support Icons; Line Supports; Line Support Icons; Walls Above; Walls Below; Wall Thicknesses; Columns Above; Columns Below; Column Dimens
Drawing Import: User Notes; User Lines; User Dimensions; S-BEAM; S-COLS; S-COLS-SYMB; A-GENM; A-DETL; 0; 1803002_A_18S_VE_UPDATE_R17_rvt-1-PT Floor Plan - LEVEL 4|S-COLS; S-ANNO-SYMB; 1803002_A_18S_VE_UPDATE_R17_rvt-1-PT Floor Plan - LEVEL 4|S-STRS
Scale = 1:380



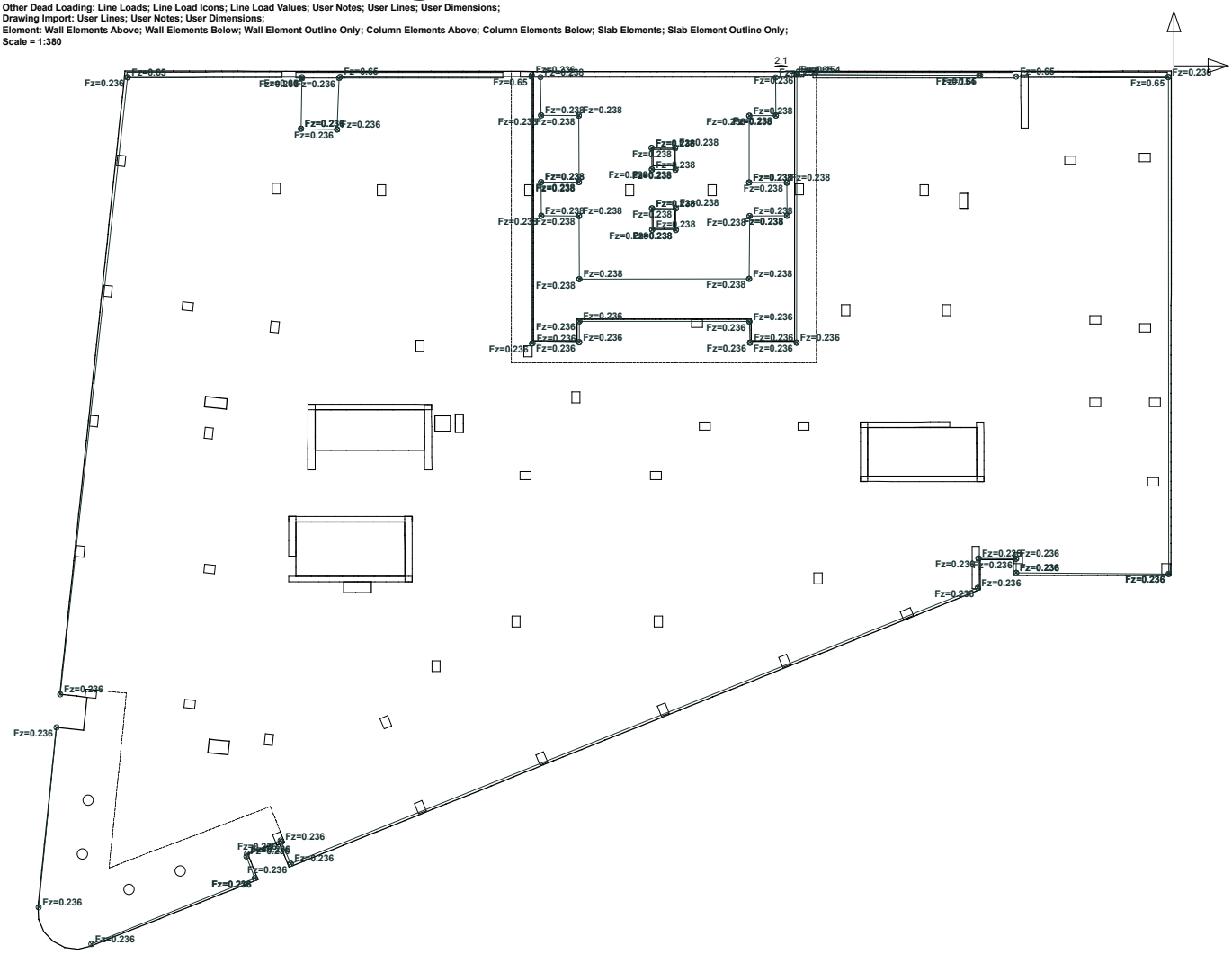
Other Dead Loading: Point Loads Plan

Other Dead Loading: Point Loads; Point Load Icons; Point Load Values; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
Scale = 1:380



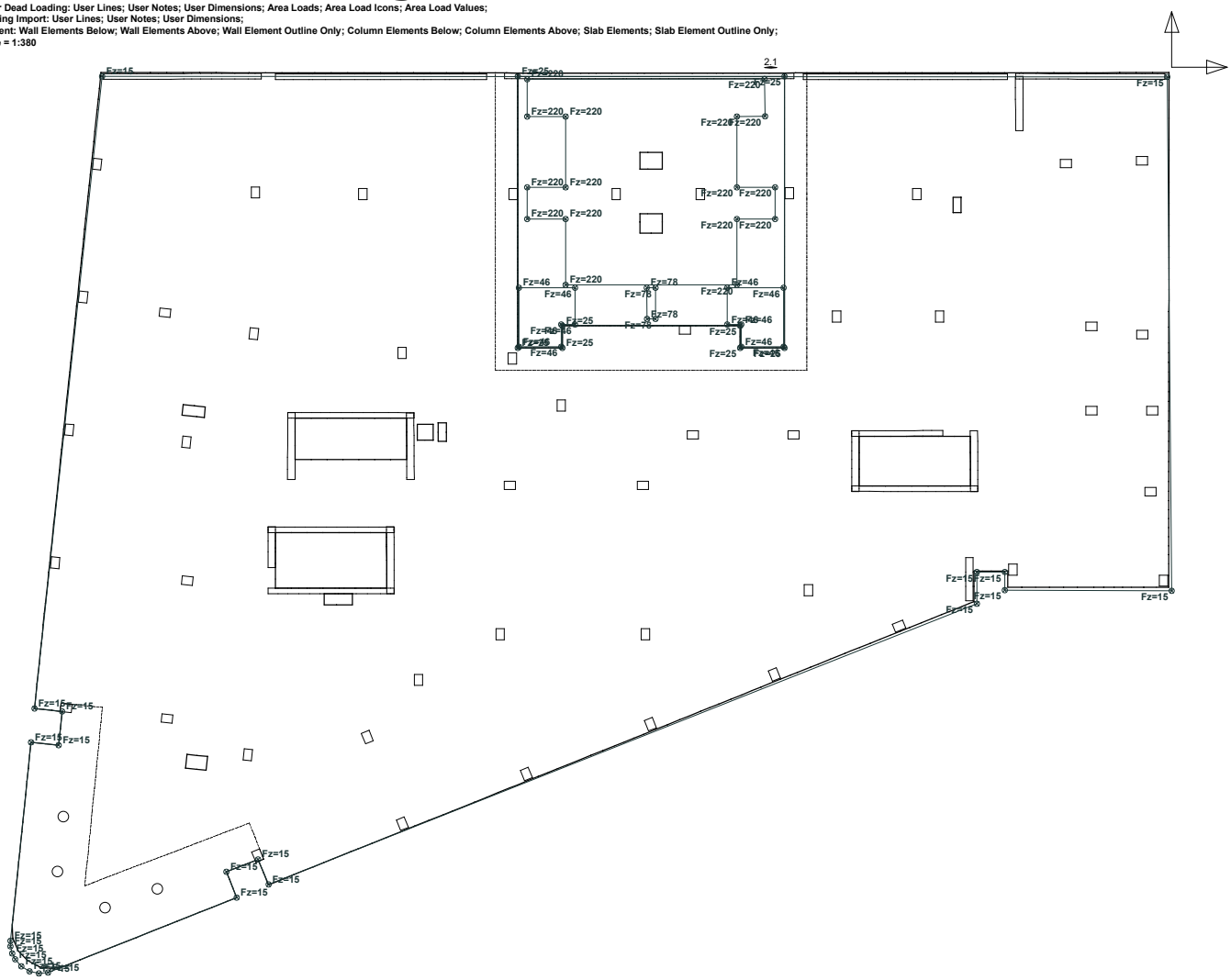
Other Dead Loading: Line Loads Plan

Other Dead Loading: Line Loads; Line Load Icons; Line Load Values; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
Scale = 1:380



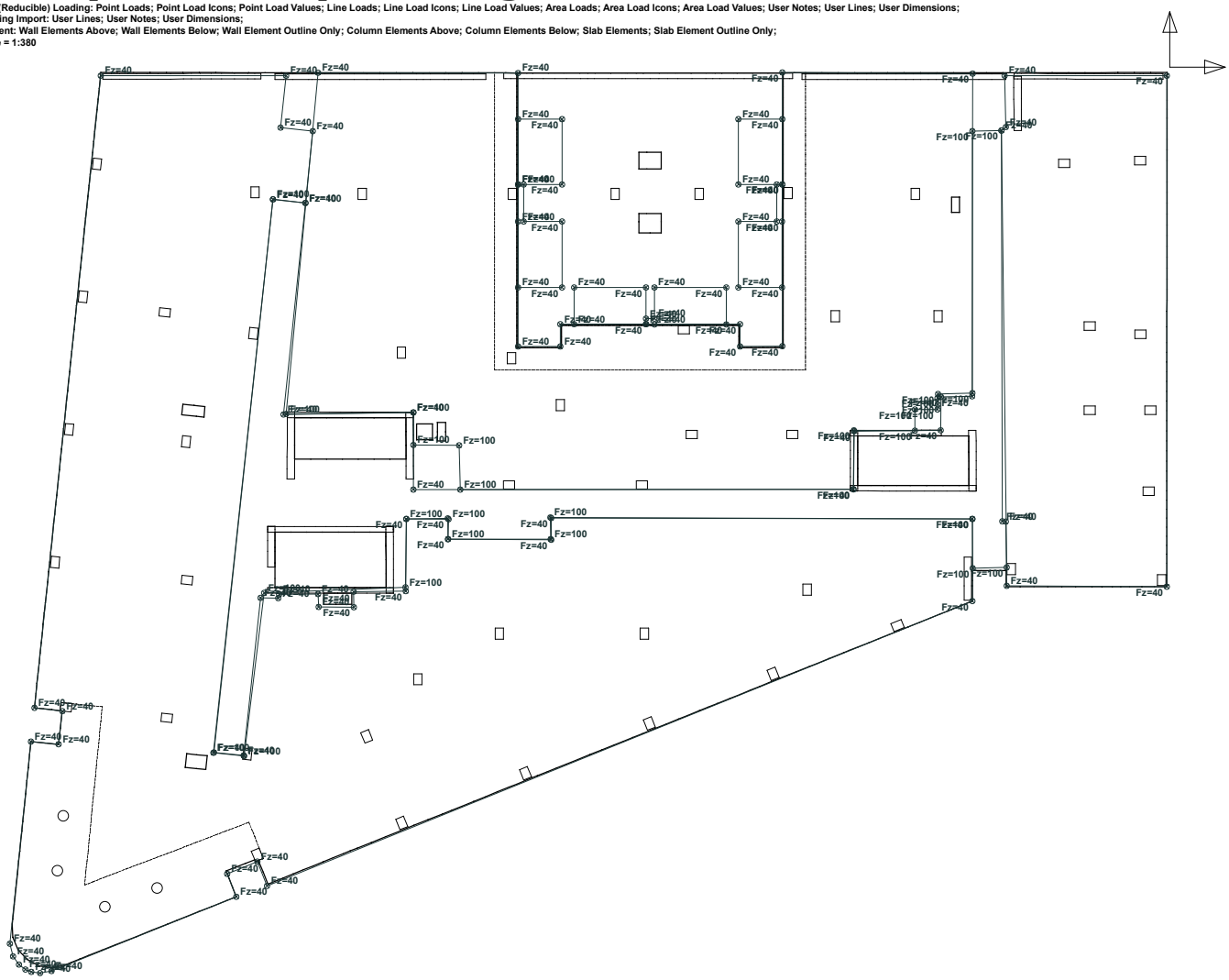
Other Dead Loading: Area Loads Plan

Other Dead Loading: User Lines; User Notes; User Dimensions; Area Loads; Area Load Icons; Area Load Values;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Below; Wall Elements Above; Wall Element Outline Only; Column Elements Below; Column Elements Above; Slab Elements; Slab Element Outline Only;
Scale = 1:380



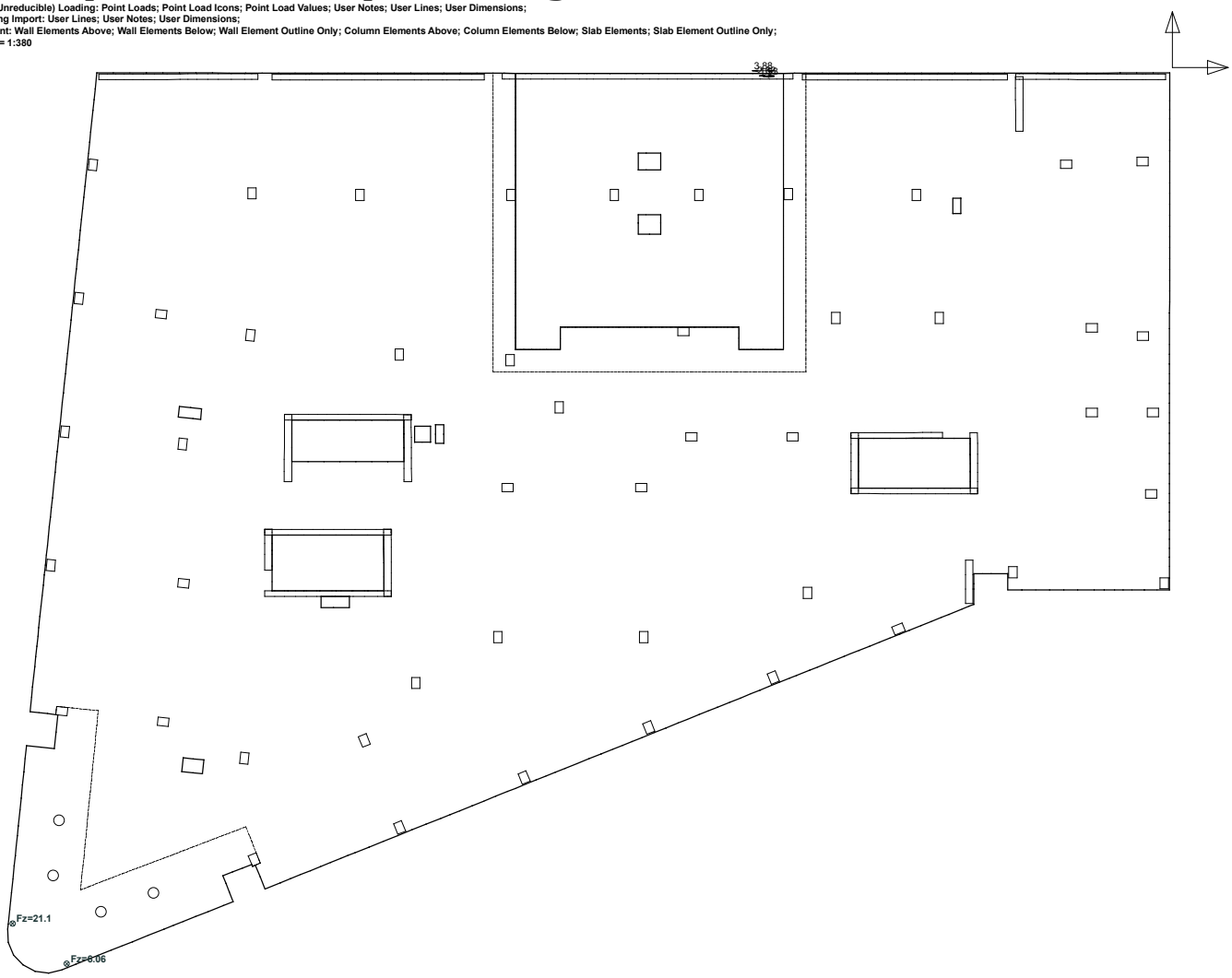
Live (Reducible) Loading: All Loads Plan

Live (Reducible) Loading: Point Loads; Point Load Icons; Point Load Values; Line Loads; Line Load Icons; Line Load Values; Area Loads; Area Load Icons; Area Load Values; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
Scale = 1:380



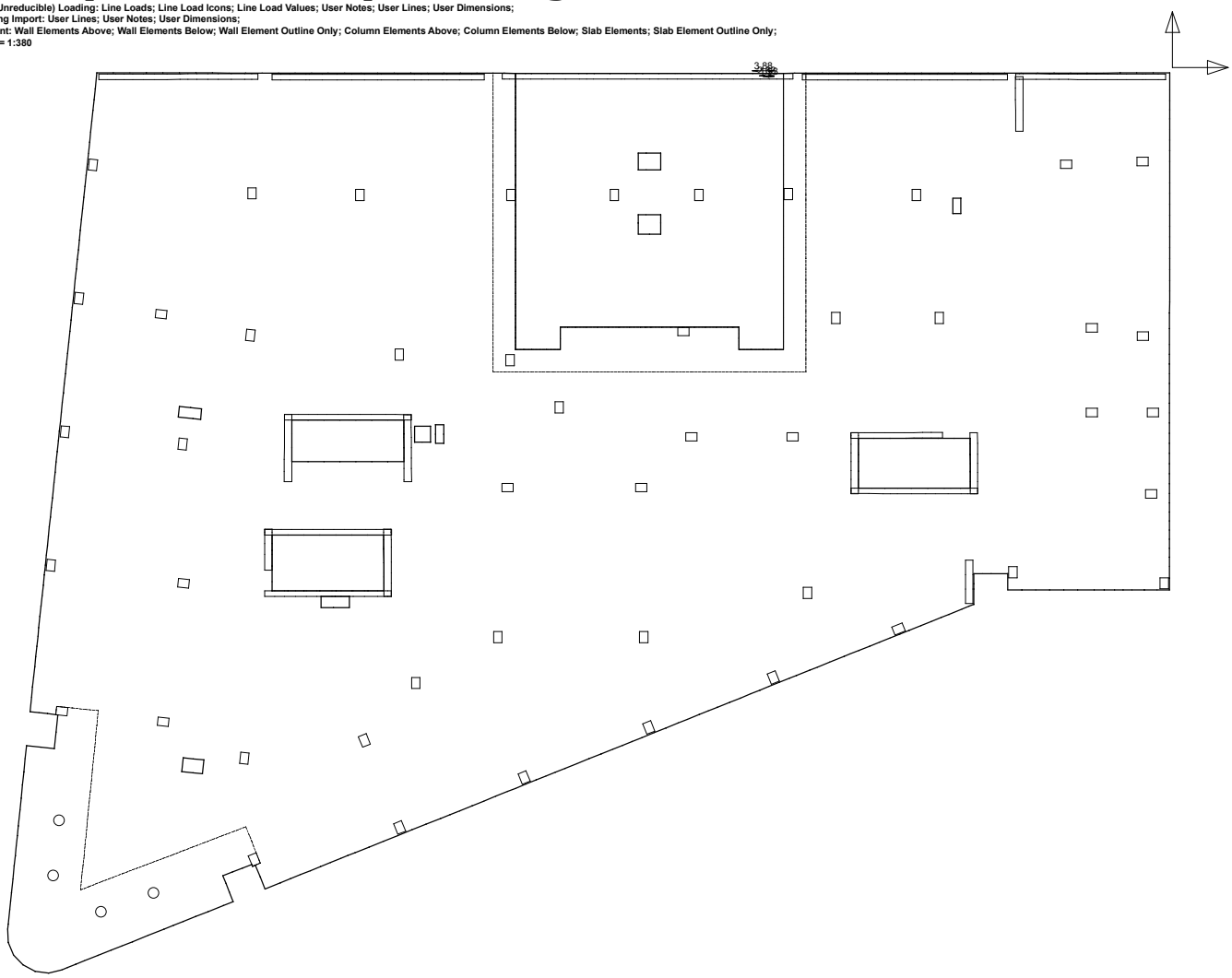
Live (Unreducible) Loading: Point Loads Plan

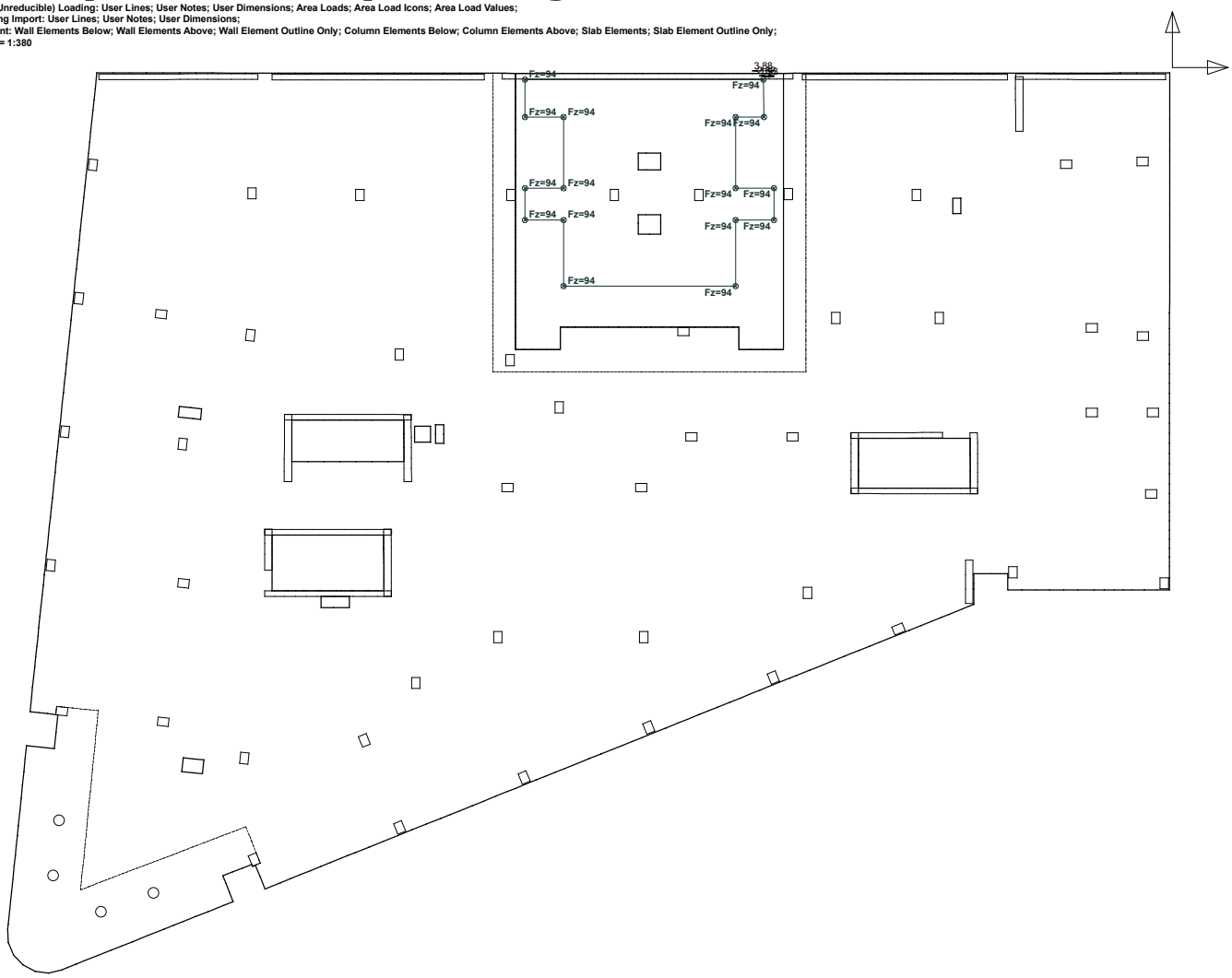
Live (Unreducible) Loading: Point Loads; Point Load Icons; Point Load Values; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
Scale = 1:380



Live (Unreducible) Loading: Line Loads Plan

Live (Unreducible) Loading: Line Loads; Line Load Icons; Line Load Values; User Notes; User Lines; User Dimensions;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Above; Wall Elements Below; Wall Element Outline Only; Column Elements Above; Column Elements Below; Slab Elements; Slab Element Outline Only;
Scale = 1:380



Live (Unreducible) Loading: Area Loads Plan

Live (Unreducible) Loading: User Lines; User Notes; User Dimensions; Area Loads; Area Load Icons; Area Load Values;
Drawing Import: User Lines; User Notes; User Dimensions;
Element: Wall Elements Below; Wall Elements Above; Wall Element Outline Only; Column Elements Below; Column Elements Above; Slab Elements; Slab Element Outline Only;
Scale = 1:380