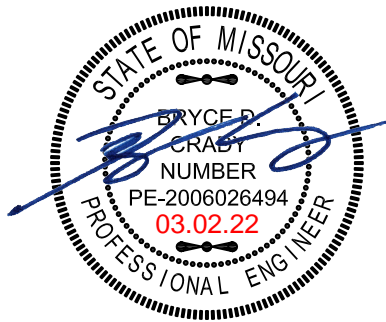




Structural Design Calculations

For

MEGA STORAGE
520 NE TOWN CENTRE DRIVE
LEE'S SUMMIT, MO




03/02/2022

DAVIDSON AE

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Design Loads

	Project:	Mega Storage
	Client:	Davidson AE
	Engineer:	JB
	Date:	3/2/2022
	Description:	Dead Load Development

Roof Dead Load Calculations

Description	Typical Roof		
Roofing Materials	Standing Seam Metal	1.50 psf	
Sheathing	None	0.00 psf	
Framing	CFM Framing	2.30 psf	<-- Equivalent to 1200S162-54 @ 16" o.c.
Insulation	None	0.00 psf	
Ceiling Finish	None	0.00 psf	
Sprinklers	No	0.00 psf	
Mechanical	No	0.00 psf	
Collateral	No	0.00 psf	
Miscellaneous		0.00 psf	
Total DL:		3.80 psf	
Roof Pitch:	0.50 : 12		
Adjusted for Roof Slope:		4 psf	

Wall Dead Load Calculations

Description

Exterior Finish
Wall Sheathing
Wall Framing
Insulation
Interior Finish
Miscellaneous

Typ Exterior	
Metal Panel	2.00 psf
None	0.00 psf
CFM Framing	1.20 psf
None	0.00 psf
None	0.00 psf
	0.00 psf
Total DL:	4 psf

<-- Equivalent to 600S162-54 @ 16" o.c.

	Project:	Mega Storage
	Client:	Davidson AE
	Engineer:	JB
	Date:	3/2/2022
	Description:	Live Load Tables

Occupancy or Use	Uniform, L_o (psf)	Live Load Reduction Permitted?	Multiple-Story Live Load Reduction Permitted?	Concentrated (lb)
Roofs				
Roof: Ordinary flat, pitched, and curved	20	Yes	—	

Reference Pella Building Systems calculation packages for specific loading conditions and reactions used in for the foundation design.

Foundation Design



Wall Footing

Project File: Mega Storage_Shawnee.ec6

LIC# : KW-06014638, Build:20.22.2.9

APEX ENGINEERS INC

(c) ENERCALC INC 1983-2022

DESCRIPTION: Building (1, 2, 3) - Exterior Footing

Code References

Calculations per ACI 318-14, IBC 2018, CBC 2019, ASCE 7-16
 Load Combinations Used : IBC 2018

General Information

Material Properties

f'_c : Concrete 28 day strength	=	3.50 ksi
f_y : Rebar Yield	=	60.0 ksi
E_c : Concrete Elastic Modulus	=	3,122.0 ksi
Concrete Density	=	145.0 pcf
ϕ Values Flexure	=	0.90
Shear	=	0.750

Analysis Settings

Min Steel % Bending Reinf.	=	
Min Allow % Temp Reinf.	=	0.00180
Min. Overturning Safety Factor	=	1.0 : 1
Min. Sliding Safety Factor	=	1.0 : 1
AutoCalc Footing Weight as DL :	=	Yes

Soil Design Values

Allowable Soil Bearing	=	1.50 ksf
Increase Bearing By Footing Weight	=	No
Soil Passive Resistance (for Sliding)	=	250.0 pcf
Soil/Concrete Friction Coeff.	=	0.30

Increases based on footing Depth

Reference Depth below Surface	=	ft
Allow. Pressure Increase per foot of depth when base footing is below	=	ksf

Increases based on footing Width

Allow. Pressure Increase per foot of width when footing is wider than	=	ksf
-----------------------------------------------------------------------	---	-----

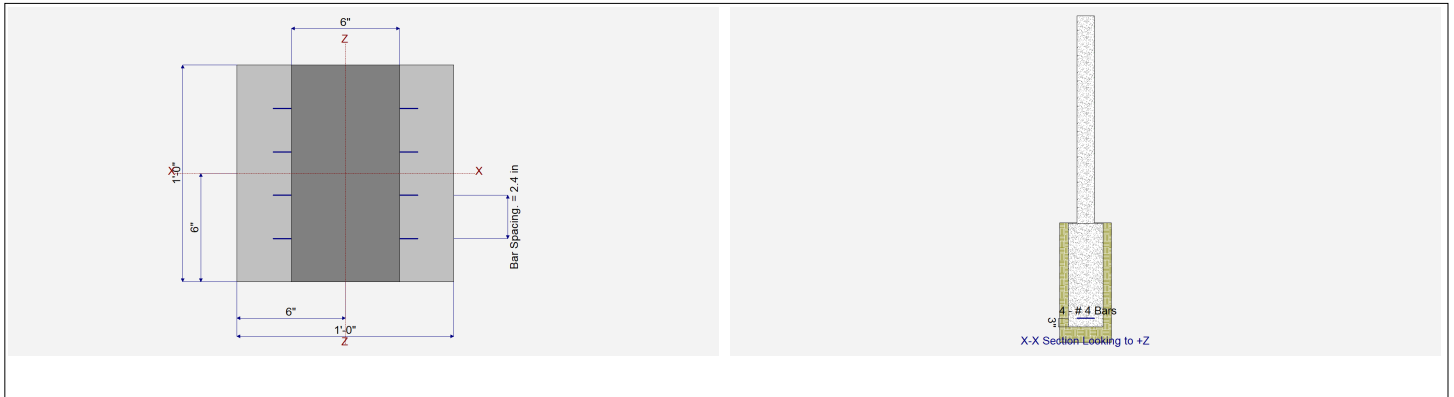
Adjusted Allowable Bearing Pressure

= 0.0 ksf

Dimensions

Reinforcing

Footing Width	=	1.0 ft	Footing Thickness	=	36.0 in	Bars along X-X Axis	
Wall Thickness	=	6.0 in	Rebar Centerline to Edge of Concrete... at Bottom of footing =	=	3.0 in	# of Bars in 12" Width	= 4
Wall center offset from center of footing	=	0 in	Reinforcing Bar Size	=	#	4	



Applied Loads

	D	Lr	L	S	W	E	H
P : Column Load	=	0.0720	0.0810		0.0810		k
OB : Overburden	=						ksf
V-x	=						k
M-zz	=						k-ft
Vx applied	=						in above top of footing



Project Title: Mega Storage
 Engineer: JB
 Project ID: 520 NE Town Centre Drive Lee's Summit, MO 64064
 Project Descr: Foundation Design

Wall Footing

Project File: Mega Storage_Shawnee.ec6

LIC# : KW-06014638, Build:20.22.2.9

APEX ENGINEERS INC

(c) ENERCALC INC 1983-2022

DESCRIPTION: Building (1, 2, 3) - Exterior Footing

DESIGN SUMMARY

Design OK

Factor of Safety	Item	Applied	Capacity	Governing Load Combination	
PASS	n/a	Overturning - Z-Z	0.0 k-ft	0.0 k-ft	No Overturning
PASS	n/a	Sliding - X-X	0.0 k	0.0 k	No Sliding
PASS	n/a	Uplift	0.0 k	0.0 k	No Uplift

Utilization Ratio	Item	Applied	Capacity	Governing Load Combination	
PASS	0.0	Soil Bearing	0.0 ksf	0.0 ksf	0.0
PASS	0.0	Z Flexure (+X)	0.0 k-ft	0.0 k-ft	No Moment
PASS	0.0	Z Flexure (-X)	0.0 k-ft	0.0 k-ft	No Moment
PASS	n/a	1-way Shear (+X)	0.0 psi	0.0 psi	n/a
PASS	0.0	1-way Shear (-X)	0.0 psi	0.0 psi	n/a

Detailed Results

Soil Bearing

Rotation Axis & Load Combination...	Gross Allowable	Xecc	Actual Soil Bearing Stress		Actual / Allowable Ratio
			-X	+X	

Overturning Stability

Units : k-ft

Rotation Axis & Load Combination...	Overturning Moment	Resisting Moment	Stability Ratio	Status
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Footing Has NO Overturning

Sliding Stability

Force Application Axis Load Combination...	Sliding Force	Resisting Force	Sliding SafetyRatio	Status
--------------------------------------------	---------------	-----------------	---------------------	--------

Footing Has NO Sliding

Footing Flexure

Flexure Axis & Load Combination	Mu k-ft	Which Side ?	Tension @ Bot. or Top ?	As Req'd in^2	Gvrn. As in^2	Actual As in^2	Phi*Mn k-ft	Status
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One Way Shear

Units : k

Load Combination...	Vu @ -X	Vu @ +X	Vu:Max	Phi Vn	Vu / Phi*Vn	Status
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Wall Footing

Project File: Mega Storage_Shawnee.ec6

LIC# : KW-06014638, Build:20.22.2.9

APEX ENGINEERS INC

(c) ENERCALC INC 1983-2022

DESCRIPTION: Building (1, 2, 3) - Interior Footing

Code References

Calculations per ACI 318-14, IBC 2018, CBC 2019, ASCE 7-16
 Load Combinations Used : IBC 2018

General Information

Material Properties

f'c : Concrete 28 day strength	=	3.50 ksi
fy : Rebar Yield	=	60.0 ksi
Ec : Concrete Elastic Modulus	=	3,122.0 ksi
Concrete Density	=	145.0 pcf
φ Values Flexure	=	0.90
Shear	=	0.750

Analysis Settings

Min Steel % Bending Reinf.	=	
Min Allow % Temp Reinf.	=	0.00180
Min. Overturning Safety Factor	=	1.0 : 1
Min. Sliding Safety Factor	=	1.0 : 1
AutoCalc Footing Weight as DL :	=	Yes

Soil Design Values

Allowable Soil Bearing	=	1.50 ksf
Increase Bearing By Footing Weight	=	No
Soil Passive Resistance (for Sliding)	=	250.0 pcf
Soil/Concrete Friction Coeff.	=	0.30

Increases based on footing Depth

Reference Depth below Surface	=	ft
Allow. Pressure Increase per foot of depth when base footing is below	=	ksf

Increases based on footing Width

Allow. Pressure Increase per foot of width when footing is wider than	=	ksf
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Adjusted Allowable Bearing Pressure

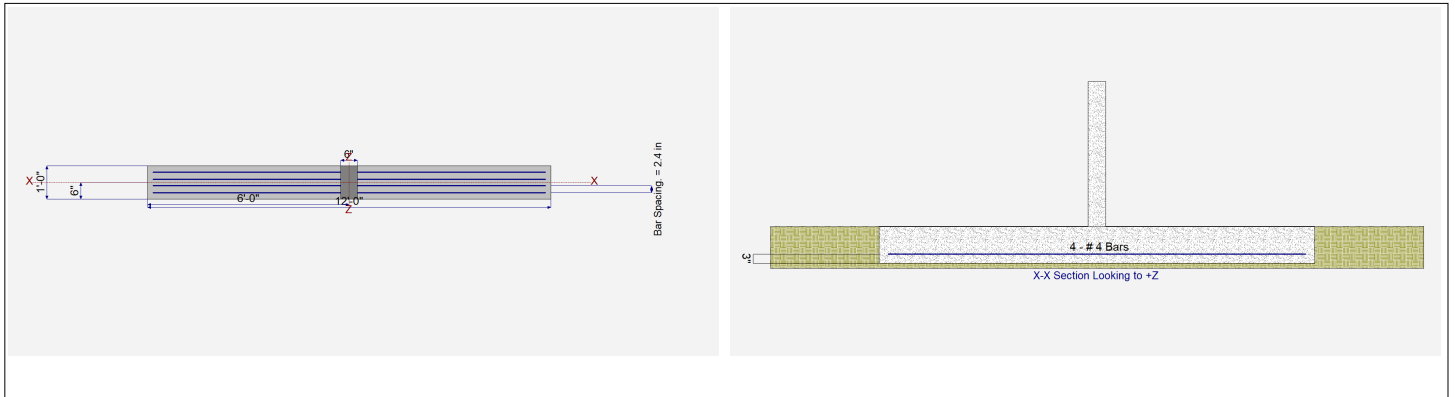
= 0.0 ksf

Dimensions

Footing Width	=	12.0 ft
Wall Thickness	=	6.0 in
Wall center offset from center of footing	=	0 in

Reinforcing

Footing Thickness	=	12.0 in	Bars along X-X Axis	
Rebar Centerline to Edge of Concrete... at Bottom of footing =	=	3.0 in	# of Bars in 12" Width =	4
			Reinforcing Bar Size =	# 4



Applied Loads

	D	Lr	L	S	W	E	H
P : Column Load	=	0.0770	0.130		0.130		k
OB : Overburden	=						ksf
V-x	=						k
M-zz	=						k-ft
Vx applied	=		in above top of footing				



Project Title: Mega Storage
 Engineer: JB
 Project ID: 520 NE Town Centre Drive Lee's Summit, MO 64064
 Project Descr: Foundation Design

Wall Footing

Project File: Mega Storage_Shawnee.ec6

LIC# : KW-06014638, Build:20.22.2.9

APEX ENGINEERS INC

(c) ENERCALC INC 1983-2022

DESCRIPTION: Building (1, 2, 3) - Interior Footing

DESIGN SUMMARY

Design OK

Factor of Safety	Item	Applied	Capacity	Governing Load Combination	
PASS	n/a	Overturning - Z-Z	0.0 k-ft	0.0 k-ft	No Overturning
PASS	n/a	Sliding - X-X	0.0 k	0.0 k	No Sliding
PASS	n/a	Uplift	0.0 k	0.0 k	No Uplift

Utilization Ratio	Item	Applied	Capacity	Governing Load Combination	
PASS	0.0	Soil Bearing	0.0 ksf	0.0 ksf	0.0
PASS	0.0	Z Flexure (+X)	0.0 k-ft	0.0 k-ft	No Moment
PASS	0.0	Z Flexure (-X)	0.0 k-ft	0.0 k-ft	No Moment
PASS	n/a	1-way Shear (+X)	0.0 psi	0.0 psi	n/a
PASS	0.0	1-way Shear (-X)	0.0 psi	0.0 psi	n/a

Detailed Results

Soil Bearing

Rotation Axis & Load Combination...	Gross Allowable	Xecc	Actual Soil Bearing Stress		Actual / Allowable Ratio
			-X	+X	

Overturning Stability

Units : k-ft

Rotation Axis & Load Combination...	Overturning Moment	Resisting Moment	Stability Ratio	Status
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Footing Has NO Overturning

Sliding Stability

Force Application Axis & Load Combination...	Sliding Force	Resisting Force	Sliding SafetyRatio	Status
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Footing Has NO Sliding

Footing Flexure

Flexure Axis & Load Combination	Mu k-ft	Which Side ?	Tension @ Bot. or Top ?	As Req'd in^2	Gvrn. As in^2	Actual As in^2	Phi*Mn k-ft	Status
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One Way Shear

Units : k

Load Combination...	Vu @ -X	Vu @ +X	Vu:Max	Phi Vn	Vu / Phi*Vn	Status
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Wall Footing

Project File: Mega Storage_Shawnee.ec6

LIC# : KW-06014638, Build:20.22.2.9

APEX ENGINEERS INC

(c) ENERCALC INC 1983-2022

DESCRIPTION: Building (4, 5) - Exterior Footing

Code References

Calculations per ACI 318-14, IBC 2018, CBC 2019, ASCE 7-16
 Load Combinations Used : IBC 2018

General Information

Material Properties

f'c : Concrete 28 day strength	=	3.50 ksi
fy : Rebar Yield	=	60.0 ksi
Ec : Concrete Elastic Modulus	=	3,122.0 ksi
Concrete Density	=	145.0 pcf
φ Values Flexure	=	0.90
Shear	=	0.750

Analysis Settings

Min Steel % Bending Reinf.	=	
Min Allow % Temp Reinf.	=	0.00180
Min. Overturning Safety Factor	=	1.0 : 1
Min. Sliding Safety Factor	=	1.0 : 1
AutoCalc Footing Weight as DL :	=	Yes

Soil Design Values

Allowable Soil Bearing	=	1.50 ksf
Increase Bearing By Footing Weight	=	No
Soil Passive Resistance (for Sliding)	=	250.0 pcf
Soil/Concrete Friction Coeff.	=	0.30

Increases based on footing Depth

Reference Depth below Surface	=	ft
Allow. Pressure Increase per foot of depth when base footing is below	=	ksf
	=	ft

Increases based on footing Width

Allow. Pressure Increase per foot of width when footing is wider than	=	ksf
	=	ft

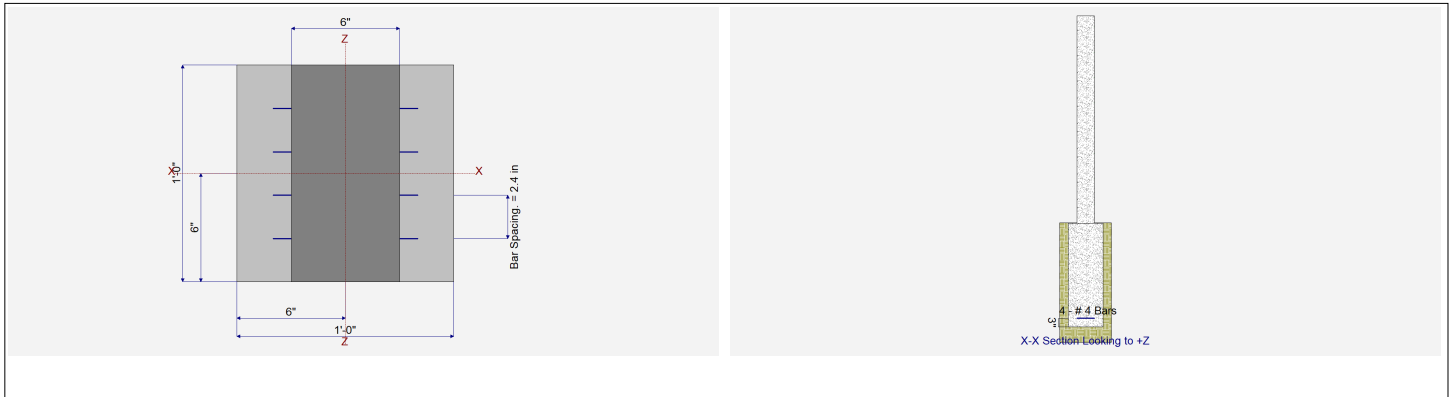
Adjusted Allowable Bearing Pressure

= 0.0 ksf

Dimensions

Reinforcing

Footing Width	=	1.0 ft	Footing Thickness	=	36.0 in	Bars along X-X Axis	
Wall Thickness	=	6.0 in	Rebar Centerline to Edge of Concrete... at Bottom of footing =	=	3.0 in	# of Bars in 12" Width	= 4
Wall center offset from center of footing	=	0 in	Reinforcing Bar Size	=	#	4	



Applied Loads

	D	Lr	L	S	W	E	H
P : Column Load	=	0.0690	0.0650		0.0650		k
OB : Overburden	=						ksf
V-x	=						k
M-zz	=						k-ft
Vx applied	=		in above top of footing				



Project Title: Mega Storage
 Engineer: JB
 Project ID: 520 NE Town Centre Drive Lee's Summit, MO 64064
 Project Descr: Foundation Design

Wall Footing

Project File: Mega Storage_Shawnee.ec6

LIC# : KW-06014638, Build:20.22.2.9

APEX ENGINEERS INC

(c) ENERCALC INC 1983-2022

DESCRIPTION: Building (4, 5) - Exterior Footing

DESIGN SUMMARY

Design OK

Factor of Safety	Item	Applied	Capacity	Governing Load Combination	
PASS	n/a	Overturning - Z-Z	0.0 k-ft	0.0 k-ft	No Overturning
PASS	n/a	Sliding - X-X	0.0 k	0.0 k	No Sliding
PASS	n/a	Uplift	0.0 k	0.0 k	No Uplift

Utilization Ratio	Item	Applied	Capacity	Governing Load Combination	
PASS	0.0	Soil Bearing	0.0 ksf	0.0 ksf	0.0
PASS	0.0	Z Flexure (+X)	0.0 k-ft	0.0 k-ft	No Moment
PASS	0.0	Z Flexure (-X)	0.0 k-ft	0.0 k-ft	No Moment
PASS	n/a	1-way Shear (+X)	0.0 psi	0.0 psi	n/a
PASS	0.0	1-way Shear (-X)	0.0 psi	0.0 psi	n/a

Detailed Results

Soil Bearing

Rotation Axis & Load Combination...	Gross Allowable	Xecc	Actual Soil Bearing Stress		Actual / Allowable Ratio
			-X	+X	

Overturning Stability

Units : k-ft

Rotation Axis & Load Combination...	Overturning Moment	Resisting Moment	Stability Ratio	Status
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Footing Has NO Overturning

Sliding Stability

Force Application Axis & Load Combination...	Sliding Force	Resisting Force	Sliding SafetyRatio	Status
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Footing Has NO Sliding

Footing Flexure

Flexure Axis & Load Combination	Mu k-ft	Which Side ?	Tension @ Bot. or Top ?	As Req'd in ²	Gvrn. As in ²	Actual As in ²	Phi*Mn k-ft	Status
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One Way Shear

Units : k

Load Combination...	Vu @ -X	Vu @ +X	Vu:Max	Phi Vn	Vu / Phi*Vn	Status
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Wall Footing

Project File: Mega Storage_Shawnee.ec6

LIC#: KW-06014638, Build:20.22.2.9

APEX ENGINEERS INC

(c) ENERCALC INC 1983-2022

DESCRIPTION: Building (4, 5) - Interior Footing

Code References

Calculations per ACI 318-14, IBC 2018, CBC 2019, ASCE 7-16
 Load Combinations Used : IBC 2018

General Information

Material Properties

f'c : Concrete 28 day strength	=	3.50 ksi
fy : Rebar Yield	=	60.0 ksi
Ec : Concrete Elastic Modulus	=	3,122.0 ksi
Concrete Density	=	145.0 pcf
φ Values Flexure	=	0.90
Shear	=	0.750

Analysis Settings

Min Steel % Bending Reinf.	=	
Min Allow % Temp Reinf.	=	0.00180
Min. Overturning Safety Factor	=	1.0 : 1
Min. Sliding Safety Factor	=	1.0 : 1
AutoCalc Footing Weight as DL :	=	Yes

Soil Design Values

Allowable Soil Bearing	=	1.50 ksf
Increase Bearing By Footing Weight	=	No
Soil Passive Resistance (for Sliding)	=	250.0 pcf
Soil/Concrete Friction Coeff.	=	0.30

Increases based on footing Depth

Reference Depth below Surface	=	ft
Allow. Pressure Increase per foot of depth when base footing is below	=	ksf

Increases based on footing Width

Allow. Pressure Increase per foot of width when footing is wider than	=	ksf
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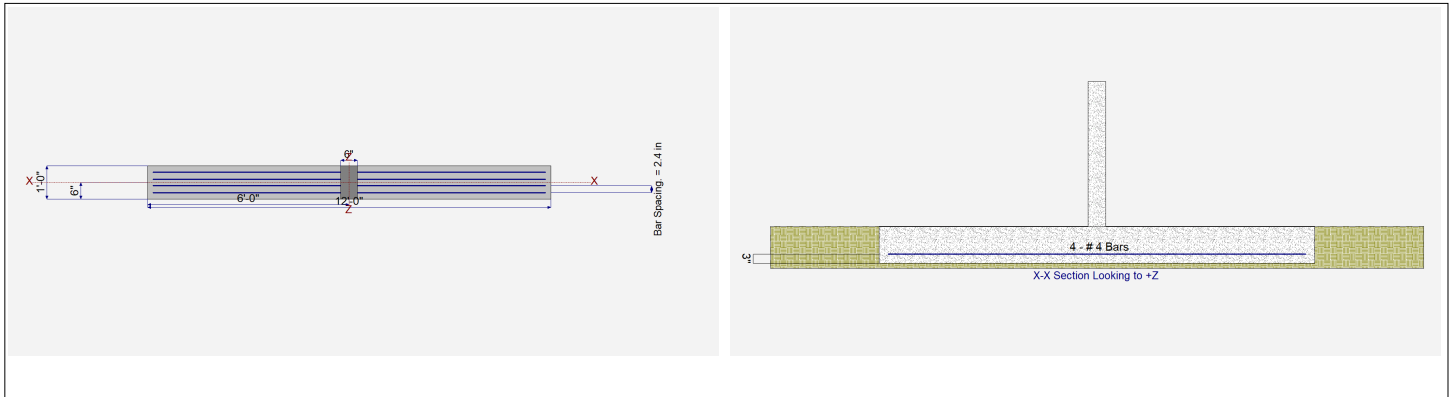
Adjusted Allowable Bearing Pressure

= 0.0 ksf

Dimensions

Reinforcing

Footing Width	=	12.0 ft	Footing Thickness	=	12.0 in	Bars along X-X Axis	
Wall Thickness	=	6.0 in	Rebar Centerline to Edge of Concrete... at Bottom of footing =	=	3.0 in	# of Bars in 12" Width	= 4
Wall center offset from center of footing	=	0 in	Reinforcing Bar Size	=	# 4		



Applied Loads

	D	Lr	L	S	W	E	H
P : Column Load	=	0.0730	0.130		0.130		k
OB : Overburden	=						ksf
V-x	=						k
M-zz	=						k-ft
Vx applied	=						in above top of footing



Project Title: Mega Storage
 Engineer: JB
 Project ID: 520 NE Town Centre Drive Lee's Summit, MO 64064
 Project Descr: Foundation Design

Wall Footing

Project File: Mega Storage_Shawnee.ec6

LIC# : KW-06014638, Build:20.22.2.9

APEX ENGINEERS INC

(c) ENERCALC INC 1983-2022

DESCRIPTION: Building (4, 5) - Interior Footing

DESIGN SUMMARY

Design OK

Factor of Safety	Item	Applied	Capacity	Governing Load Combination	
PASS	n/a	Overturning - Z-Z	0.0 k-ft	0.0 k-ft	No Overturning
PASS	n/a	Sliding - X-X	0.0 k	0.0 k	No Sliding
PASS	n/a	Uplift	0.0 k	0.0 k	No Uplift

Utilization Ratio	Item	Applied	Capacity	Governing Load Combination	
PASS	0.0	Soil Bearing	0.0 ksf	0.0 ksf	0.0
PASS	0.0	Z Flexure (+X)	0.0 k-ft	0.0 k-ft	No Moment
PASS	0.0	Z Flexure (-X)	0.0 k-ft	0.0 k-ft	No Moment
PASS	n/a	1-way Shear (+X)	0.0 psi	0.0 psi	n/a
PASS	0.0	1-way Shear (-X)	0.0 psi	0.0 psi	n/a

Detailed Results

Soil Bearing

Rotation Axis & Load Combination...	Gross Allowable	Xecc	Actual Soil Bearing Stress		Actual / Allowable Ratio
			-X	+X	

Overturning Stability

Units : k-ft

Rotation Axis & Load Combination...	Overturning Moment	Resisting Moment	Stability Ratio	Status
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Footing Has NO Overturning

Sliding Stability

Force Application Axis & Load Combination...	Sliding Force	Resisting Force	Sliding SafetyRatio	Status
----------------------------------------------	---------------	-----------------	---------------------	--------

Footing Has NO Sliding

Footing Flexure

Flexure Axis & Load Combination	Mu k-ft	Which Side ?	Tension @ Bot. or Top ?	As Req'd in^2	Gvrn. As in^2	Actual As in^2	Phi*Mn k-ft	Status
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One Way Shear

Units : k

Load Combination...	Vu @ -X	Vu @ +X	Vu:Max	Phi Vn	Vu / Phi*Vn	Status
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Wall Footing

Project File: Mega Storage_Shawnee.ec6

LIC# : KW-06014638, Build:20.22.2.9

APEX ENGINEERS INC

(c) ENERCALC INC 1983-2022

DESCRIPTION: Building (8, 13, 14, 15) - Exterior Footing

Code References

Calculations per ACI 318-14, IBC 2018, CBC 2019, ASCE 7-16
 Load Combinations Used : IBC 2018

General Information

Material Properties

f'_c : Concrete 28 day strength	=	3.50 ksi
f_y : Rebar Yield	=	60.0 ksi
E_c : Concrete Elastic Modulus	=	3,122.0 ksi
Concrete Density	=	145.0 pcf
ϕ Values Flexure	=	0.90
Shear	=	0.750

Analysis Settings

Min Steel % Bending Reinf.	=	
Min Allow % Temp Reinf.	=	0.00180
Min. Overturning Safety Factor	=	1.0 : 1
Min. Sliding Safety Factor	=	1.0 : 1
AutoCalc Footing Weight as DL :	=	Yes

Soil Design Values

Allowable Soil Bearing	=	1.50 ksf
Increase Bearing By Footing Weight	=	No
Soil Passive Resistance (for Sliding)	=	250.0 pcf
Soil/Concrete Friction Coeff.	=	0.30

Increases based on footing Depth

Reference Depth below Surface	=	ft
Allow. Pressure Increase per foot of depth when base footing is below	=	ksf
	=	ft

Increases based on footing Width

Allow. Pressure Increase per foot of width when footing is wider than	=	ksf
	=	ft

Adjusted Allowable Bearing Pressure

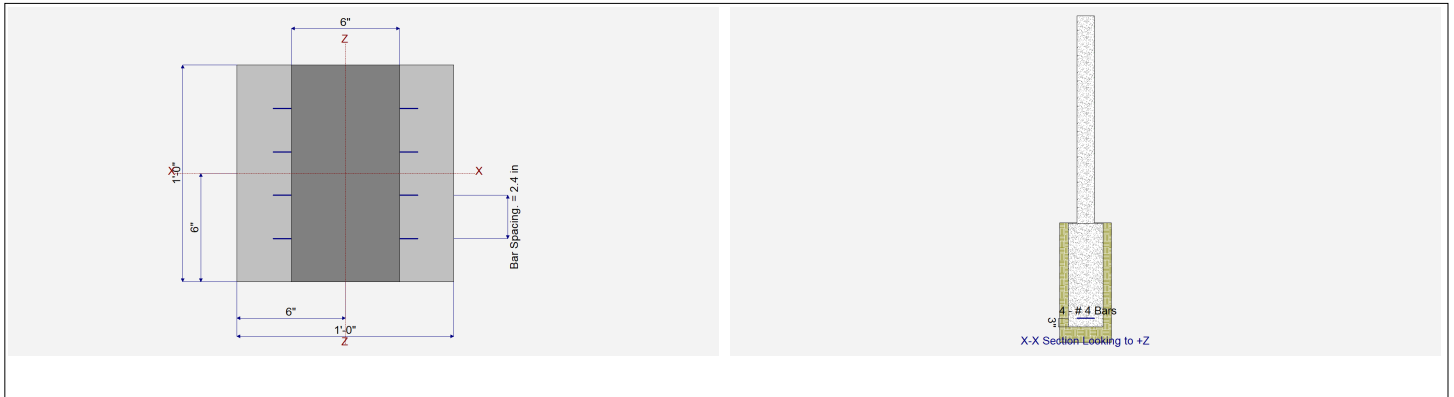
= 0.0 ksf

Dimensions

Footing Width	=	1.0 ft
Wall Thickness	=	6.0 in
Wall center offset from center of footing	=	0 in

Reinforcing

Footing Thickness	=	36.0 in	Bars along X-X Axis	
Rebar Centerline to Edge of Concrete... at Bottom of footing =	=	3.0 in	# of Bars in 12" Width =	4
			Reinforcing Bar Size =	# 4



Applied Loads

	D	Lr	L	S	W	E	H
P : Column Load	=	0.0750	0.0610		0.0610		k
OB : Overburden	=						ksf
V-x	=						k
M-zz	=						k-ft
Vx applied	=						in above top of footing



Project Title: Mega Storage
 Engineer: JB
 Project ID: 520 NE Town Centre Drive Lee's Summit, MO 64064
 Project Descr: Foundation Design

Wall Footing

Project File: Mega Storage_Shawnee.ec6

LIC# : KW-06014638, Build:20.22.2.9

APEX ENGINEERS INC

(c) ENERCALC INC 1983-2022

DESCRIPTION: Building (8, 13, 14, 15) - Exterior Footing

DESIGN SUMMARY

Design OK

Factor of Safety	Item	Applied	Capacity	Governing Load Combination	
PASS	n/a	Overturning - Z-Z	0.0 k-ft	0.0 k-ft	No Overturning
PASS	n/a	Sliding - X-X	0.0 k	0.0 k	No Sliding
PASS	n/a	Uplift	0.0 k	0.0 k	No Uplift

Utilization Ratio	Item	Applied	Capacity	Governing Load Combination	
PASS	0.0	Soil Bearing	0.0 ksf	0.0 ksf	0.0
PASS	0.0	Z Flexure (+X)	0.0 k-ft	0.0 k-ft	No Moment
PASS	0.0	Z Flexure (-X)	0.0 k-ft	0.0 k-ft	No Moment
PASS	n/a	1-way Shear (+X)	0.0 psi	0.0 psi	n/a
PASS	0.0	1-way Shear (-X)	0.0 psi	0.0 psi	n/a

Detailed Results

Soil Bearing

Rotation Axis & Load Combination...	Gross Allowable	Xecc	Actual Soil Bearing Stress		Actual / Allowable Ratio
			-X	+X	

Overturning Stability

Units : k-ft

Rotation Axis & Load Combination...	Overturning Moment	Resisting Moment	Stability Ratio	Status
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Footing Has NO Overturning

Sliding Stability

Force Application Axis Load Combination...	Sliding Force	Resisting Force	Sliding SafetyRatio	Status
--------------------------------------------	---------------	-----------------	---------------------	--------

Footing Has NO Sliding

Footing Flexure

Flexure Axis & Load Combination	Mu k-ft	Which Side ?	Tension @ Bot. or Top ?	As Req'd in^2	Gvrn. As in^2	Actual As in^2	Phi*Mn k-ft	Status
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One Way Shear

Units : k

Load Combination...	Vu @ -X	Vu @ +X	Vu:Max	Phi Vn	Vu / Phi*Vn	Status
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Wall Footing

Project File: Mega Storage_Shawnee.ec6

LIC# : KW-06014638, Build:20.22.2.9

APEX ENGINEERS INC

(c) ENERCALC INC 1983-2022

DESCRIPTION: Building (8, 13, 14, 15) - Interior Footing

Code References

Calculations per ACI 318-14, IBC 2018, CBC 2019, ASCE 7-16
 Load Combinations Used : IBC 2018

General Information

Material Properties

f'c : Concrete 28 day strength	=	3.50 ksi
fy : Rebar Yield	=	60.0 ksi
Ec : Concrete Elastic Modulus	=	3,122.0 ksi
Concrete Density	=	145.0 pcf
φ Values Flexure	=	0.90
Shear	=	0.750

Analysis Settings

Min Steel % Bending Reinf.	=	
Min Allow % Temp Reinf.	=	0.00180
Min. Overturning Safety Factor	=	1.0 : 1
Min. Sliding Safety Factor	=	1.0 : 1
AutoCalc Footing Weight as DL :	=	Yes

Soil Design Values

Allowable Soil Bearing	=	1.50 ksf
Increase Bearing By Footing Weight	=	No
Soil Passive Resistance (for Sliding)	=	250.0 pcf
Soil/Concrete Friction Coeff.	=	0.30

Increases based on footing Depth

Reference Depth below Surface	=	ft
Allow. Pressure Increase per foot of depth when base footing is below	=	ksf

Increases based on footing Width

Allow. Pressure Increase per foot of width when footing is wider than	=	ksf
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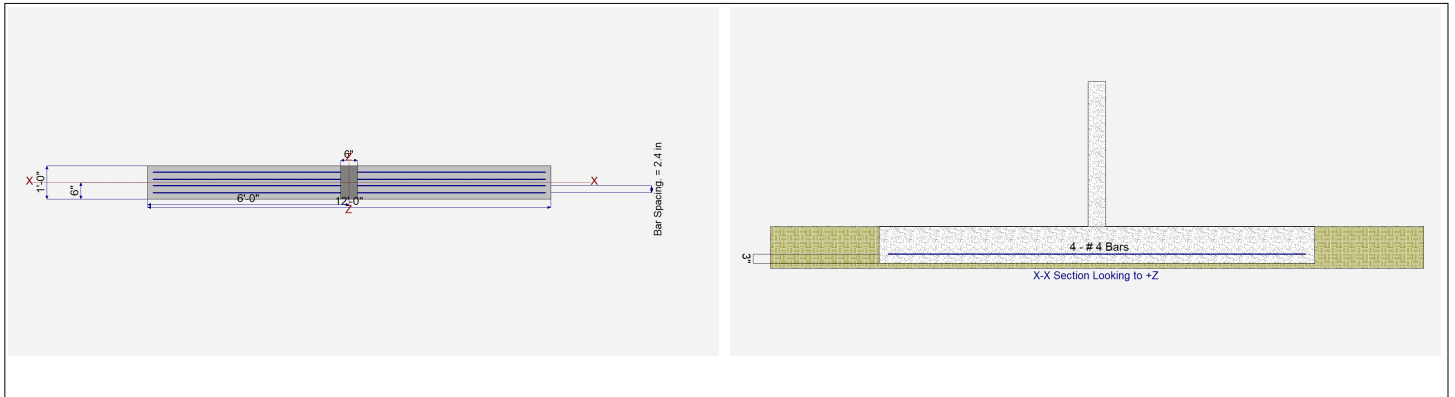
Adjusted Allowable Bearing Pressure

= 0.0 ksf

Dimensions

Reinforcing

Footing Width	=	12.0 ft	Footing Thickness	=	12.0 in	Bars along X-X Axis	
Wall Thickness	=	6.0 in	Rebar Centerline to Edge of Concrete... at Bottom of footing =	=	3.0 in	# of Bars in 12" Width	= 4
Wall center offset from center of footing	=	0 in	Reinforcing Bar Size	=	# 4		



Applied Loads

	D	Lr	L	S	W	E	H
P : Column Load	=	0.0840	0.1210		0.1210		k
OB : Overburden	=						ksf
V-x	=						k
M-zz	=						k-ft
Vx applied	=		in above top of footing				



Project Title: Mega Storage
 Engineer: JB
 Project ID: 520 NE Town Centre Drive Lee's Summit, MO 64064
 Project Descr: Foundation Design

Wall Footing

Project File: Mega Storage_Shawnee.ec6

LIC# : KW-06014638, Build:20.22.2.9

APEX ENGINEERS INC

(c) ENERCALC INC 1983-2022

DESCRIPTION: Building (8, 13, 14, 15) - Interior Footing

DESIGN SUMMARY

Design OK

Factor of Safety	Item	Applied	Capacity	Governing Load Combination	
PASS	n/a	Overturning - Z-Z	0.0 k-ft	0.0 k-ft	No Overturning
PASS	n/a	Sliding - X-X	0.0 k	0.0 k	No Sliding
PASS	n/a	Uplift	0.0 k	0.0 k	No Uplift

Utilization Ratio	Item	Applied	Capacity	Governing Load Combination	
PASS	0.0	Soil Bearing	0.0 ksf	0.0 ksf	0.0
PASS	0.0	Z Flexure (+X)	0.0 k-ft	0.0 k-ft	No Moment
PASS	0.0	Z Flexure (-X)	0.0 k-ft	0.0 k-ft	No Moment
PASS	n/a	1-way Shear (+X)	0.0 psi	0.0 psi	n/a
PASS	0.0	1-way Shear (-X)	0.0 psi	0.0 psi	n/a

Detailed Results

Soil Bearing

Rotation Axis & Load Combination...	Gross Allowable	Xecc	Actual Soil Bearing Stress		Actual / Allowable Ratio
			-X	+X	

Overturning Stability

Units : k-ft

Rotation Axis & Load Combination...	Overturning Moment	Resisting Moment	Stability Ratio	Status
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Footing Has NO Overturning

Sliding Stability

Force Application Axis & Load Combination...	Sliding Force	Resisting Force	Sliding SafetyRatio	Status
----------------------------------------------	---------------	-----------------	---------------------	--------

Footing Has NO Sliding

Footing Flexure

Flexure Axis & Load Combination	Mu k-ft	Which Side ?	Tension @ Bot. or Top ?	As Req'd in ²	Gvrn. As in ²	Actual As in ²	Phi*Mn k-ft	Status
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One Way Shear

Units : k

Load Combination...	Vu @ -X	Vu @ +X	Vu:Max	Phi Vn	Vu / Phi*Vn	Status
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Wall Footing

Project File: Mega Storage_Shawnee.ec6

LIC# : KW-06014638, Build:20.22.2.9

APEX ENGINEERS INC

(c) ENERCALC INC 1983-2022

DESCRIPTION: Building (9, 10) - Exterior Footing

Code References

Calculations per ACI 318-14, IBC 2018, CBC 2019, ASCE 7-16
 Load Combinations Used : IBC 2018

General Information

Material Properties

f'c : Concrete 28 day strength	=	3.50 ksi
fy : Rebar Yield	=	60.0 ksi
Ec : Concrete Elastic Modulus	=	3,122.0 ksi
Concrete Density	=	145.0 pcf
φ Values Flexure	=	0.90
Shear	=	0.750

Analysis Settings

Min Steel % Bending Reinf.	=	
Min Allow % Temp Reinf.	=	0.00180
Min. Overturning Safety Factor	=	1.0 : 1
Min. Sliding Safety Factor	=	1.0 : 1
AutoCalc Footing Weight as DL :	=	Yes

Soil Design Values

Allowable Soil Bearing	=	1.50 ksf
Increase Bearing By Footing Weight	=	No
Soil Passive Resistance (for Sliding)	=	250.0 pcf
Soil/Concrete Friction Coeff.	=	0.30

Increases based on footing Depth

Reference Depth below Surface	=	ft
Allow. Pressure Increase per foot of depth when base footing is below	=	ksf
	=	ft

Increases based on footing Width

Allow. Pressure Increase per foot of width when footing is wider than	=	ksf
	=	ft

Adjusted Allowable Bearing Pressure

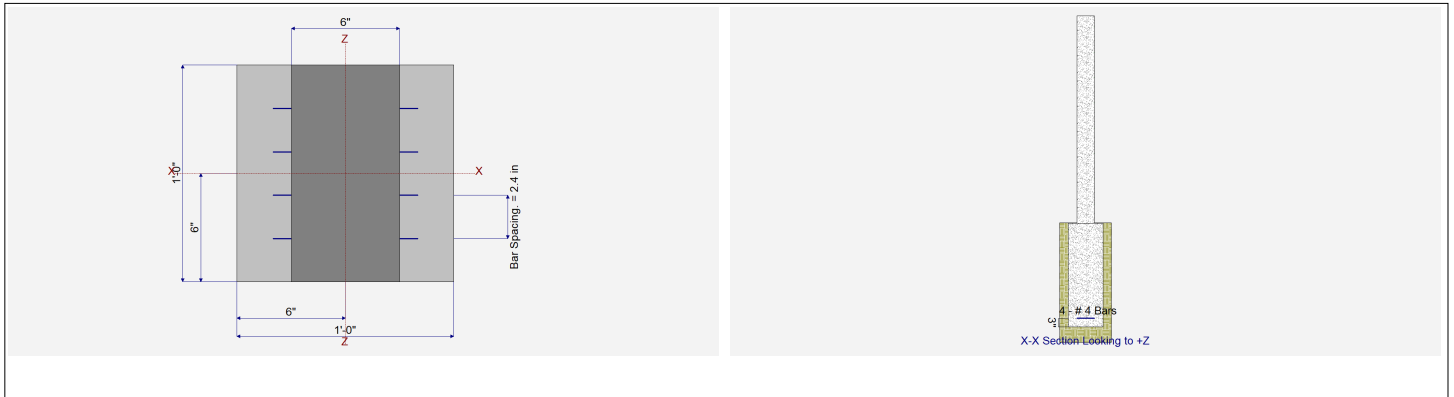
= 0.0 ksf

Dimensions

Footing Width	=	1.0 ft
Wall Thickness	=	6.0 in
Wall center offset from center of footing	=	0 in

Reinforcing

Footing Thickness	=	36.0 in	Bars along X-X Axis	
Rebar Centerline to Edge of Concrete... at Bottom of footing =	=	3.0 in	# of Bars in 12" Width =	4
			Reinforcing Bar Size =	# 4



Applied Loads

	D	Lr	L	S	W	E	H
P : Column Load	=	0.0770	0.0620		0.0620		k
OB : Overburden	=						ksf
V-x	=						k
M-zz	=						k-ft
Vx applied	=						in above top of footing



Project Title: Mega Storage
 Engineer: JB
 Project ID: 520 NE Town Centre Drive Lee's Summit, MO 64064
 Project Descr: Foundation Design

Wall Footing

Project File: Mega Storage_Shawnee.ec6

LIC# : KW-06014638, Build:20.22.2.9

APEX ENGINEERS INC

(c) ENERCALC INC 1983-2022

DESCRIPTION: Building (9, 10) - Exterior Footing

DESIGN SUMMARY

Design OK

Factor of Safety	Item	Applied	Capacity	Governing Load Combination	
PASS	n/a	Overturning - Z-Z	0.0 k-ft	0.0 k-ft	No Overturning
PASS	n/a	Sliding - X-X	0.0 k	0.0 k	No Sliding
PASS	n/a	Uplift	0.0 k	0.0 k	No Uplift

Utilization Ratio	Item	Applied	Capacity	Governing Load Combination	
PASS	0.0	Soil Bearing	0.0 ksf	0.0 ksf	0.0
PASS	0.0	Z Flexure (+X)	0.0 k-ft	0.0 k-ft	No Moment
PASS	0.0	Z Flexure (-X)	0.0 k-ft	0.0 k-ft	No Moment
PASS	n/a	1-way Shear (+X)	0.0 psi	0.0 psi	n/a
PASS	0.0	1-way Shear (-X)	0.0 psi	0.0 psi	n/a

Detailed Results

Soil Bearing

Rotation Axis & Load Combination...	Gross Allowable	Xecc	Actual Soil Bearing Stress		Actual / Allowable Ratio
			-X	+X	

Overturning Stability

Units : k-ft

Rotation Axis & Load Combination...	Overturning Moment	Resisting Moment	Stability Ratio	Status
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Footing Has NO Overturning

Sliding Stability

Force Application Axis & Load Combination...	Sliding Force	Resisting Force	Sliding SafetyRatio	Status
----------------------------------------------	---------------	-----------------	---------------------	--------

Footing Has NO Sliding

Footing Flexure

Flexure Axis & Load Combination	Mu k-ft	Which Side ?	Tension @ Bot. or Top ?	As Req'd in ²	Gvrn. As in ²	Actual As in ²	Phi*Mn k-ft	Status
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One Way Shear

Units : k

Load Combination...	Vu @ -X	Vu @ +X	Vu:Max	Phi Vn	Vu / Phi*Vn	Status
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Wall Footing

Project File: Mega Storage_Shawnee.ec6

LIC# : KW-06014638, Build:20.22.2.9

APEX ENGINEERS INC

(c) ENERCALC INC 1983-2022

DESCRIPTION: Building (9, 10) - Interior Footing

Code References

Calculations per ACI 318-14, IBC 2018, CBC 2019, ASCE 7-16
 Load Combinations Used : IBC 2018

General Information

Material Properties

f'c : Concrete 28 day strength	=	3.50 ksi
fy : Rebar Yield	=	60.0 ksi
Ec : Concrete Elastic Modulus	=	3,122.0 ksi
Concrete Density	=	145.0 pcf
φ Values Flexure	=	0.90
Shear	=	0.750

Analysis Settings

Min Steel % Bending Reinf.	=	
Min Allow % Temp Reinf.	=	0.00180
Min. Overturning Safety Factor	=	1.0 : 1
Min. Sliding Safety Factor	=	1.0 : 1
AutoCalc Footing Weight as DL :	=	Yes

Soil Design Values

Allowable Soil Bearing	=	1.50 ksf
Increase Bearing By Footing Weight	=	No
Soil Passive Resistance (for Sliding)	=	250.0 pcf
Soil/Concrete Friction Coeff.	=	0.30

Increases based on footing Depth

Reference Depth below Surface	=	ft
Allow. Pressure Increase per foot of depth when base footing is below	=	ksf

Increases based on footing Width

Allow. Pressure Increase per foot of width when footing is wider than	=	ksf
-----------------------------------------------------------------------	---	-----

Adjusted Allowable Bearing Pressure

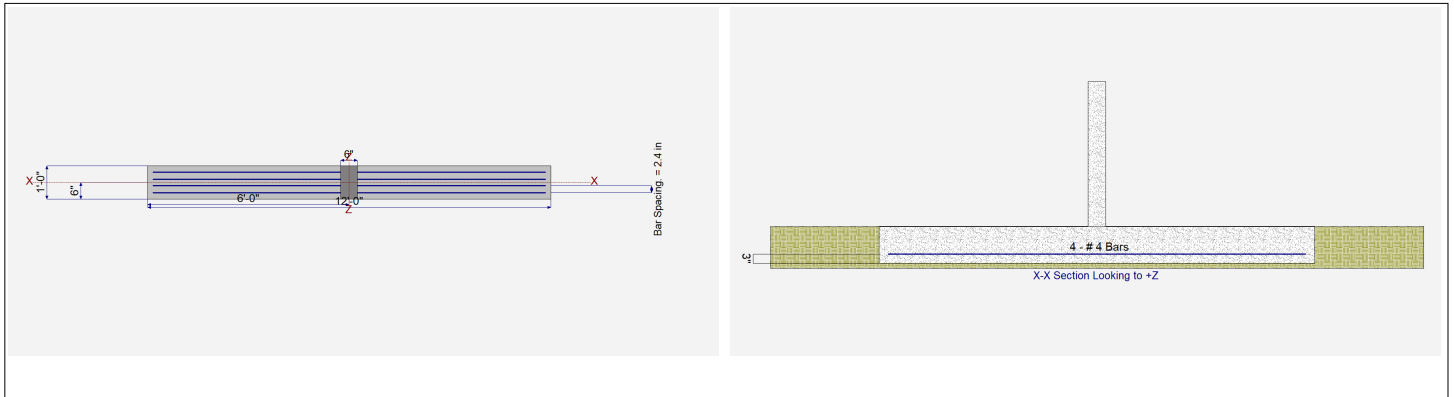
= 0.0 ksf

Dimensions

Footing Width	=	12.0 ft
Wall Thickness	=	6.0 in
Wall center offset from center of footing	=	0 in

Reinforcing

Footing Thickness	=	12.0 in	Bars along X-X Axis	
Rebar Centerline to Edge of Concrete... at Bottom of footing =	=	3.0 in	# of Bars in 12" Width =	4
			Reinforcing Bar Size =	# 4



Applied Loads

	D	Lr	L	S	W	E	H
P : Column Load	=	0.0890	0.1240		0.1240		k
OB : Overburden	=						ksf
V-x	=						k
M-zz	=						k-ft
Vx applied	=						in above top of footing



Project Title: Mega Storage
 Engineer: JB
 Project ID: 520 NE Town Centre Drive Lee's Summit, MO 64064
 Project Descr: Foundation Design

Wall Footing

Project File: Mega Storage_Shawnee.ec6

LIC# : KW-06014638, Build:20.22.2.9

APEX ENGINEERS INC

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DESCRIPTION: Building (9, 10) - Interior Footing

DESIGN SUMMARY

Design OK

Factor of Safety	Item	Applied	Capacity	Governing Load Combination	
PASS	n/a	Overturning - Z-Z	0.0 k-ft	0.0 k-ft	No Overturning
PASS	n/a	Sliding - X-X	0.0 k	0.0 k	No Sliding
PASS	n/a	Uplift	0.0 k	0.0 k	No Uplift

Utilization Ratio	Item	Applied	Capacity	Governing Load Combination	
PASS	0.0	Soil Bearing	0.0 ksf	0.0 ksf	0.0
PASS	0.0	Z Flexure (+X)	0.0 k-ft	0.0 k-ft	No Moment
PASS	0.0	Z Flexure (-X)	0.0 k-ft	0.0 k-ft	No Moment
PASS	n/a	1-way Shear (+X)	0.0 psi	0.0 psi	n/a
PASS	0.0	1-way Shear (-X)	0.0 psi	0.0 psi	n/a

Detailed Results

Soil Bearing

Rotation Axis & Load Combination...	Gross Allowable	Xecc	Actual Soil Bearing Stress		Actual / Allowable Ratio
			-X	+X	

Overturning Stability

Units : k-ft

Rotation Axis & Load Combination...	Overturning Moment	Resisting Moment	Stability Ratio	Status
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Footing Has NO Overturning

Sliding Stability

Force Application Axis & Load Combination...	Sliding Force	Resisting Force	Sliding SafetyRatio	Status
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Footing Has NO Sliding

Footing Flexure

Flexure Axis & Load Combination	Mu k-ft	Which Side ?	Tension @ Bot. or Top ?	As Req'd in ²	Gvrn. As in ²	Actual As in ²	Phi*Mn k-ft	Status
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One Way Shear

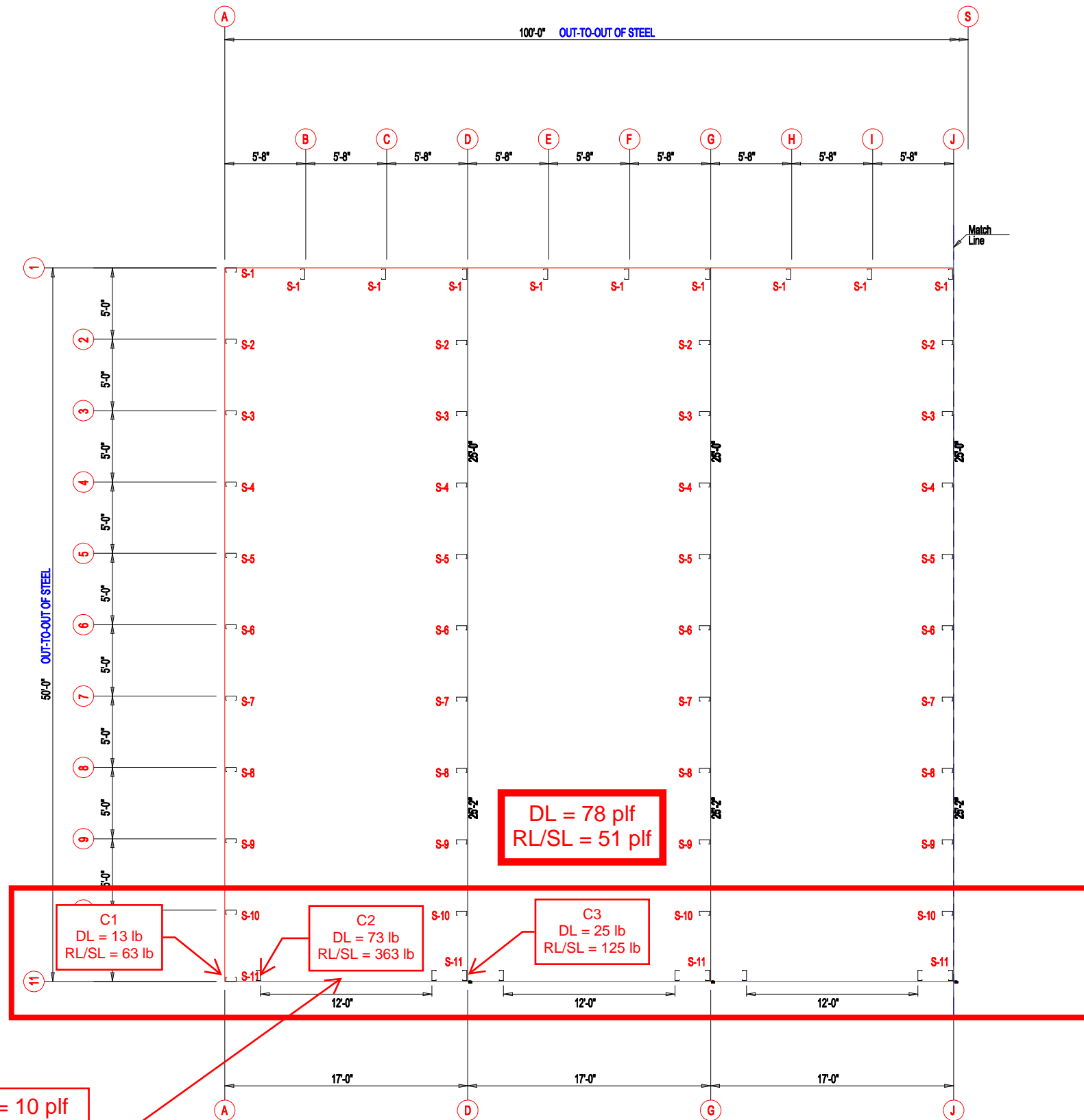
Units : k

Load Combination...	Vu @ -X	Vu @ +X	Vu:Max	Phi Vn	Vu / Phi*Vn	Status
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Miscellaneous

BUILDINGS 1, 2 & 3

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	14'-9 1/2"
S-2	6X2C16	15'-0"
S-3	6X2C16	15'-2 1/2"
S-4	6X2C16	15'-5"
S-5	6X2C16	15'-7 1/2"
S-6	6X2C16	15'-10"
S-7	6X2C16	16'-0 1/2"
S-8	6X2C16	16'-3"
S-9	6X2C16	16'-5 1/2"
S-10	6X2C16	16'-8"
S-11	6X2C16	17'-0"



SOUTH
FOOTING

DL = 78 plf
RL/SL = 51 plf

C1
DL = 13 lb
RL/SL = 63 lb

C2
DL = 73 lb
RL/SL = 363 lb

C3
DL = 25 lb
RL/SL = 125 lb

DL: 2.5 ft x 4 psf = 10 plf
RL: 2.5 ft x 20 psf = 50 plf
SL: 2.5 ft x 20 psf = 50 plf

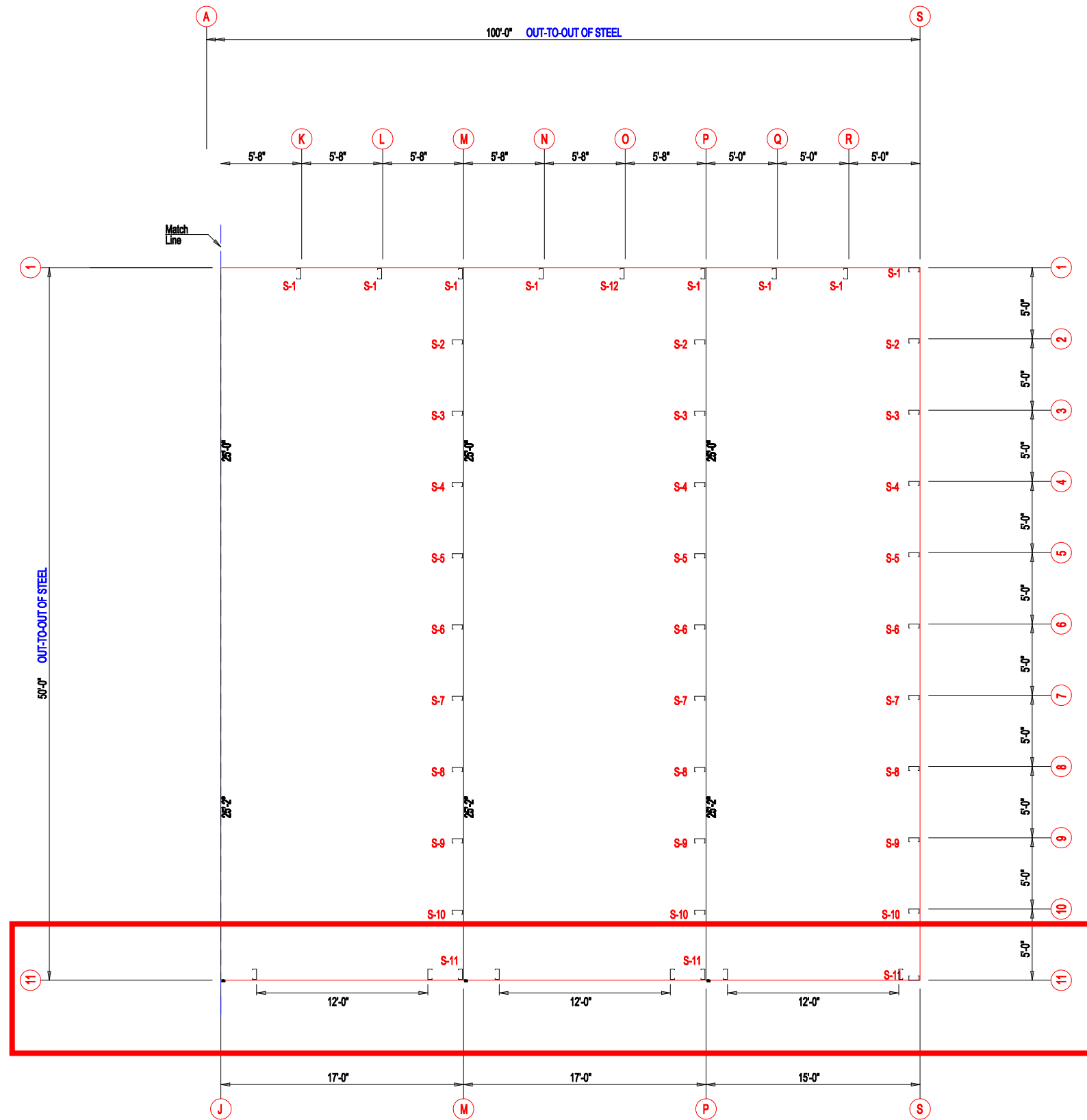
DLW: 16.88 ft x 4 psf = 68 plf

FLOOR PLAN



DESCRIPTION: FLOOR PLAN					
CUSTOMER: DLR			PROJECT: MEGA STORAGE LEES SUMMIT		
LOCATION: LEES SUMMIT MO					
DRN. BY JB	CKD BY DES	DATE 1/17/22	SCALE N.T.S.	REV. 00	QUOTATION NO. MEGASTORAGELEESUMMITBUILDING#1#3
					SHEET NO.

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	14'-9 1/2"
S-2	6X2C16	15'-0"
S-3	6X2C16	15'-2 1/2"
S-4	6X2C16	15'-5"
S-5	6X2C16	15'-7 1/2"
S-6	6X2C16	15'-10"
S-7	6X2C16	16'-0 1/2"
S-8	6X2C16	16'-3"
S-9	6X2C16	16'-5 1/2"
S-10	6X2C16	16'-8"
S-11	6X2C16	17'-0"
S-12	6X25C14	14'-9 1/2"



FLOOR PLAN

SOUTH
FOOTING

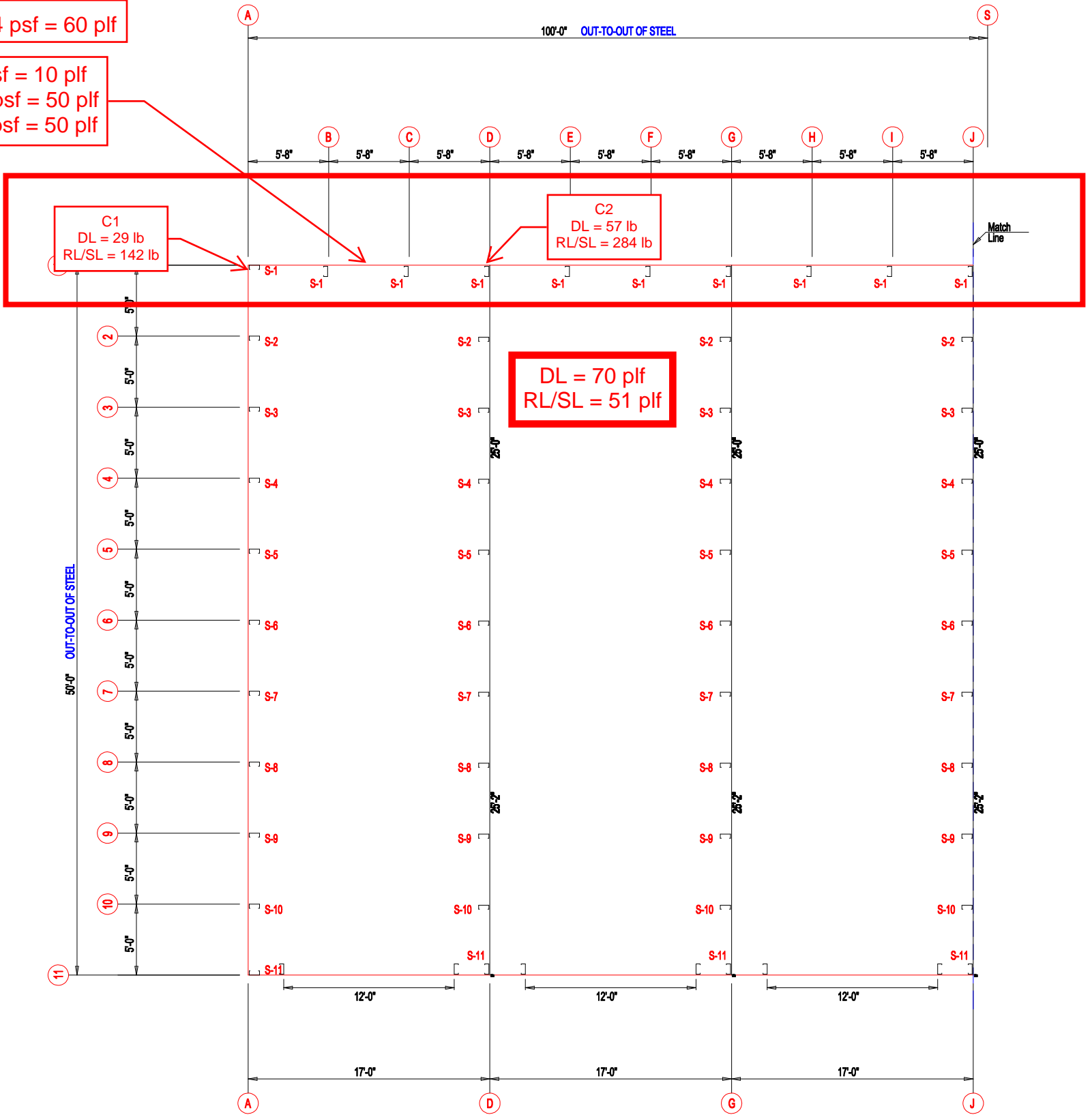


906 West 9th Street Pella, IA 50219
(800) 225-0481 www.pellabuildings.com

DESCRIPTION:		FLOOR PLAN	
CUSTOMER:		DLR	PROJECT: MEGA STORAGE LEES SUMMIT
LOCATION:		LEES SUMMIT MO	
DRN. BY	CKD BY	DATE	SCALE
JB	DES	1/17/22	N.T.S.
REV.	00	QUOTATION NO.	SHEET NO.
		MEGASTORAGELEESUMMITBUILDING#1#3	

DLW: 14.79 ft x 4 psf = 60 plf

DL: 2.5 ft x 4 psf = 10 plf
 RL: 2.5 ft x 20 psf = 50 plf
 SL: 2.5 ft x 20 psf = 50 plf



DL = 70 plf
 RL/SL = 51 plf

C1
 DL = 29 lb
 RL/SL = 142 lb

C2
 DL = 57 lb
 RL/SL = 284 lb

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	14'-9 1/2"
S-2	6X2C16	15'-0"
S-3	6X2C16	15'-2 1/2"
S-4	6X2C16	15'-5"
S-5	6X2C16	15'-7 1/2"
S-6	6X2C16	15'-10"
S-7	6X2C16	16'-0 1/2"
S-8	6X2C16	16'-3"
S-9	6X2C16	16'-5 1/2"
S-10	6X2C16	16'-8"
S-11	6X2C16	17'-0"

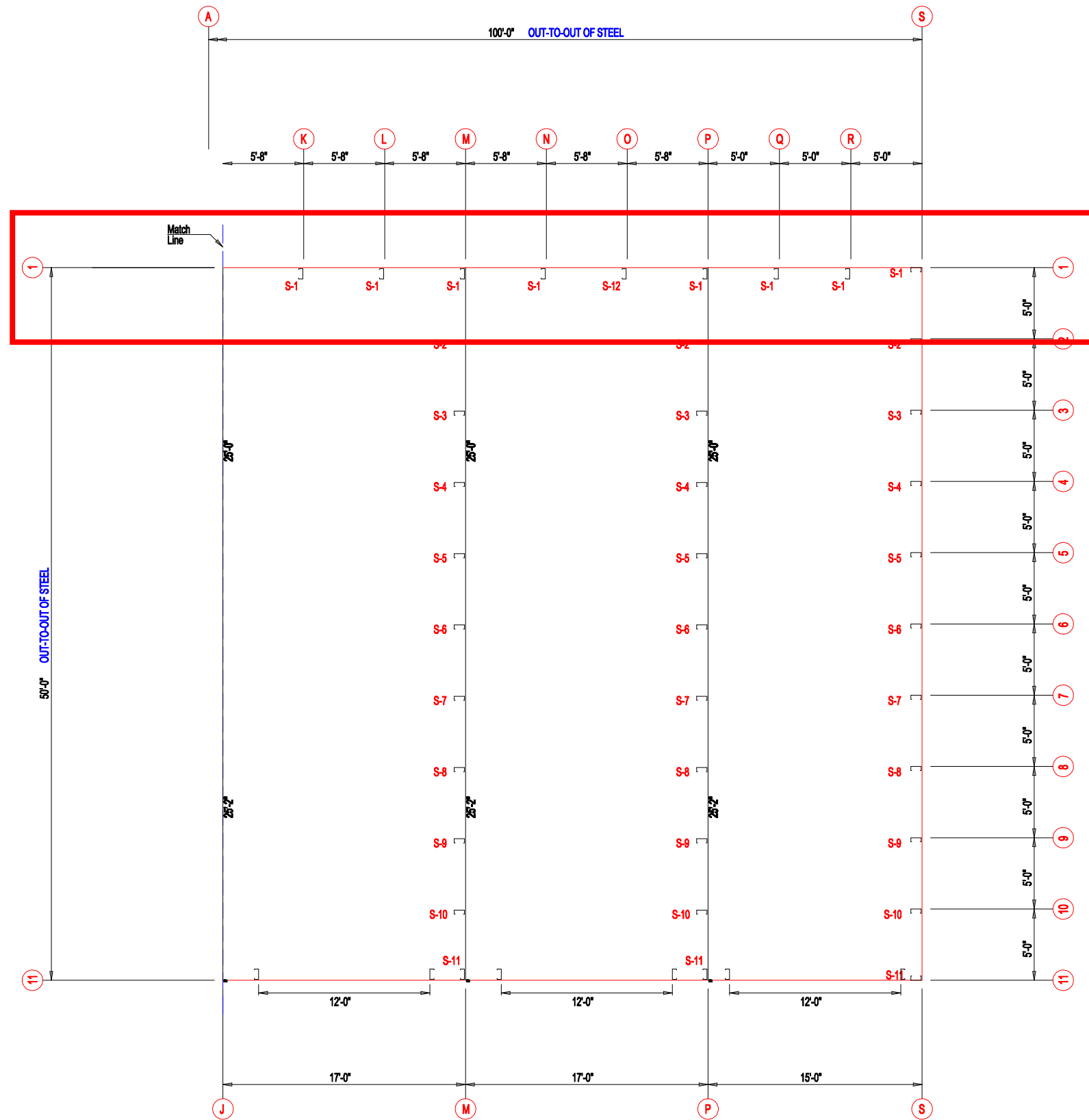
**NORTH
FOOTING**

FLOOR PLAN



906 West 9th Street Pella, IA 50219
 (800) 225-0481 www.pellabuildings.com

DESCRIPTION: FLOOR PLAN					
CUSTOMER: DLR			PROJECT: MEGA STORAGE LEES SUMMIT		
LOCATION: LEES SUMMIT MO					
DRN. BY JB	CKD BY DES	DATE 1/17/22	SCALE N.T.S.	REV. 00	QUOTATION NO. MEGASTORAGELEESUMMITBUILDING#1#3 SHEET NO.



MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	14'-9 1/2"
S-2	6X2C16	15'-0"
S-3	6X2C16	15'-2 1/2"
S-4	6X2C16	15'-5"
S-5	6X2C16	15'-7 1/2"
S-6	6X2C16	15'-10"
S-7	6X2C16	16'-0 1/2"
S-8	6X2C16	16'-3"
S-9	6X2C16	16'-5 1/2"
S-10	6X2C16	16'-8"
S-11	6X2C16	17'-0"
S-12	6X25C14	14'-9 1/2"

NORTH
FOOTING

FLOOR PLAN



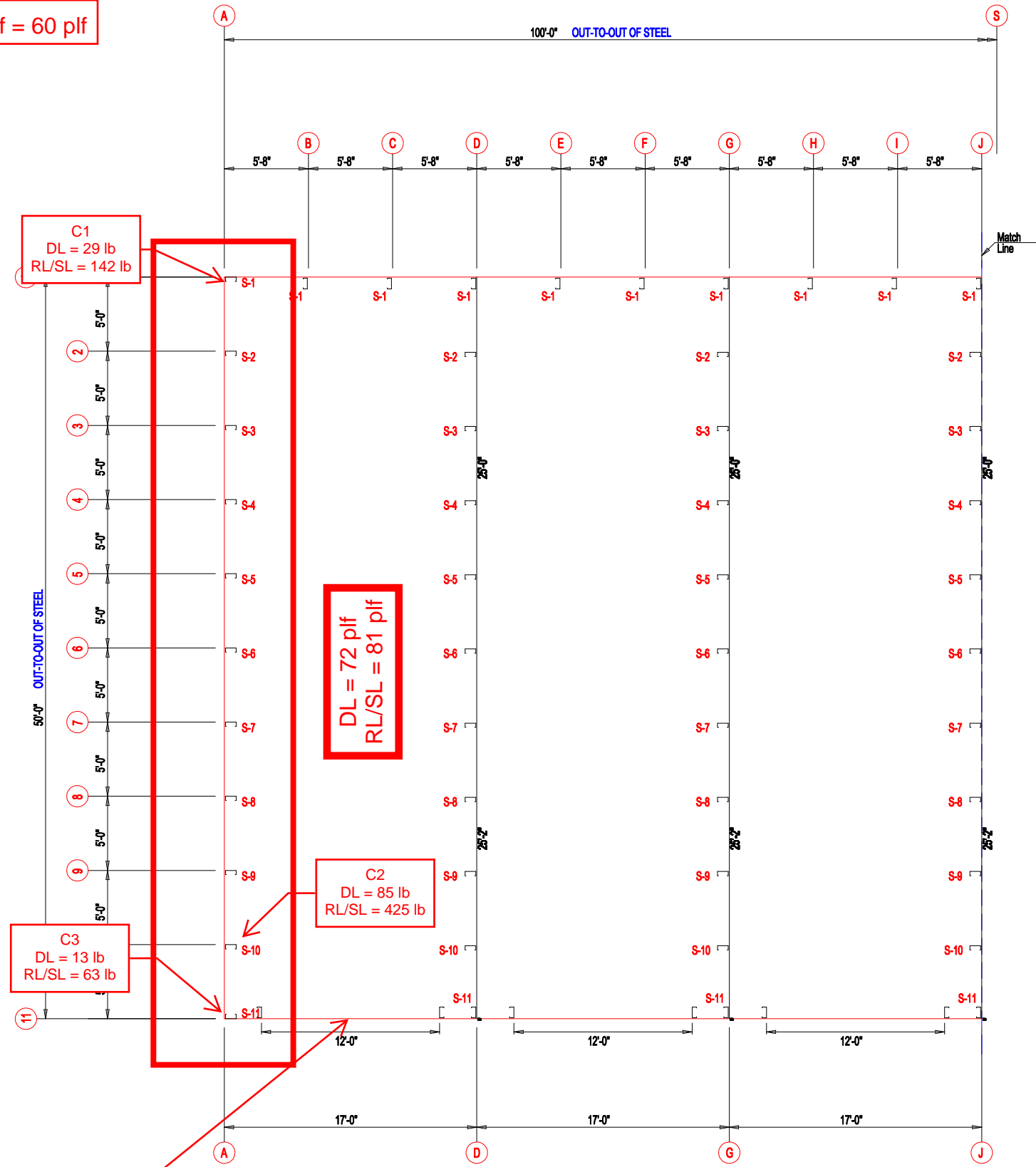
906 West 9th Street Pella, IA 50219
(800) 225-0481 www.pellabuildings.com

DESCRIPTION: FLOOR PLAN					
CUSTOMER: DLR			PROJECT: MEGA STORAGE LEES SUMMIT		
LOCATION: LEES SUMMIT MO					
DRN. BY JB	CK'D BY DES	DATE 1/17/22	SCALE N.T.S.	REV. 00	QUOTATION NO. MEGASTORAGELEESUMMITBUILDING#1#3
					SHEET NO.

DLW: 14.79 ft x 4 psf = 60 plf

DLW: 16 ft x 4 psf = 64 plf

DL: 2.5 ft x 4 psf = 10 plf
 RL: 2.5 ft x 20 psf = 50 plf
 SL: 2.5 ft x 20 psf = 50 plf



FLOOR PLAN

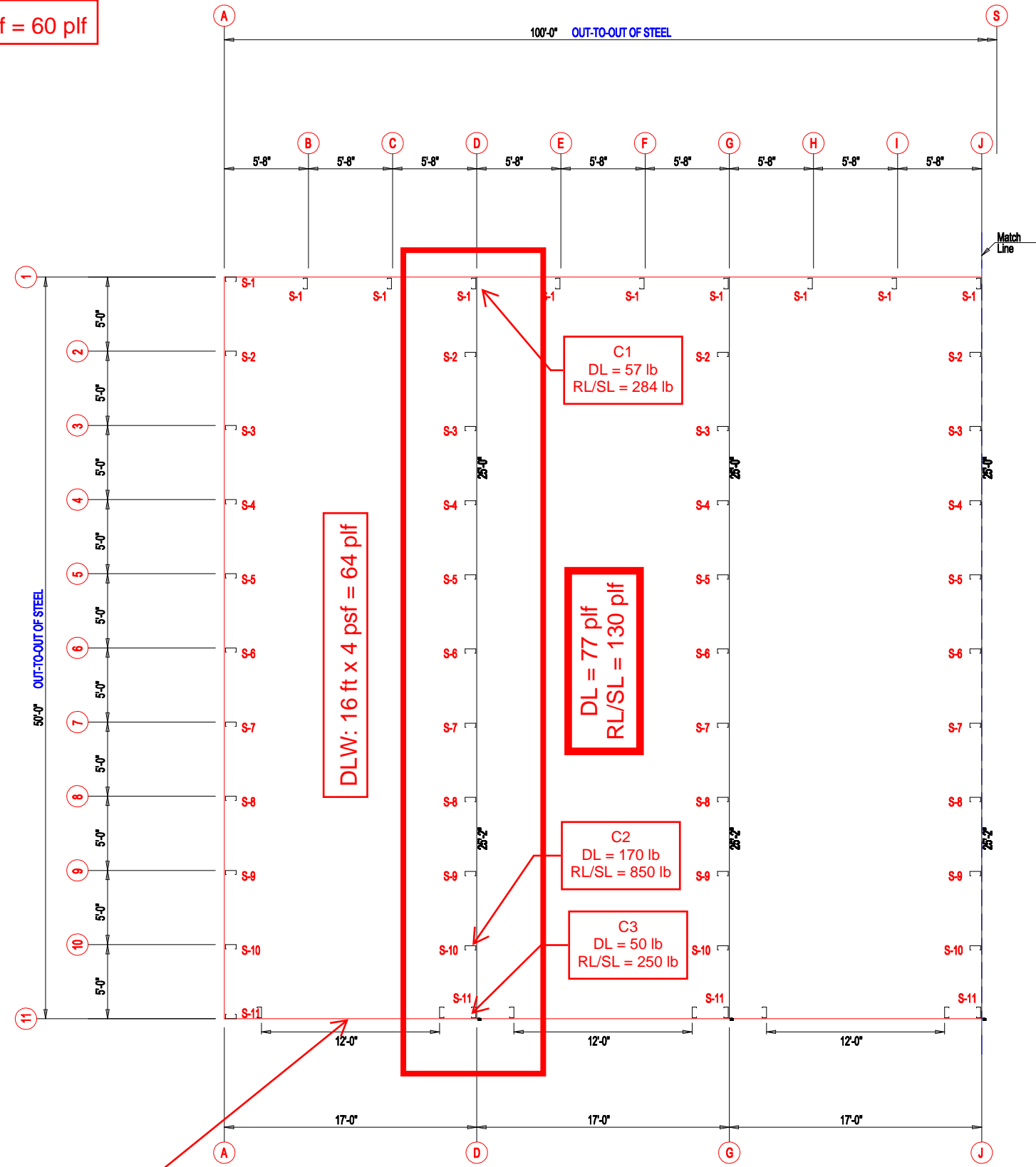
MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	14'-9 1/2"
S-2	6X2C16	15'-0"
S-3	6X2C16	15'-2 1/2"
S-4	6X2C16	15'-5"
S-5	6X2C16	15'-7 1/2"
S-6	6X2C16	15'-10"
S-7	6X2C16	16'-0 1/2"
S-8	6X2C16	16'-3"
S-9	6X2C16	16'-5 1/2"
S-10	6X2C16	16'-8"
S-11	6X2C16	17'-0"

WEST FOOTING



DESCRIPTION: FLOOR PLAN		PROJECT: MEGA STORAGE LEES SUMMIT	
CUSTOMER: DLR		LOCATION: LEES SUMMIT MO	
DRN. BY: JB	CK'D BY: DES	DATE: 1/17/22	SCALE: N.T.S.
REV: 00	QUOTATION NO. MEGASTORAGELEESUMMITBUILDING#1#3	SHEET NO.	

DLW: 14.79 ft x 4 psf = 60 plf



DLW: 16 ft x 4 psf = 64 plf

DL = 77 plf
RL/SL = 130 plf

C2
DL = 170 lb
RL/SL = 850 lb

C3
DL = 50 lb
RL/SL = 250 lb

**INTERIOR
FOOTING**

DL: 2.5 ft x 4 psf = 10 plf
RL: 2.5 ft x 20 psf = 50 plf
SL: 2.5 ft x 20 psf = 50 plf

FLOOR PLAN

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	14'-9 1/2"
S-2	6X2C16	15'-0"
S-3	6X2C16	15'-2 1/2"
S-4	6X2C16	15'-5"
S-5	6X2C16	15'-7 1/2"
S-6	6X2C16	15'-10"
S-7	6X2C16	16'-0 1/2"
S-8	6X2C16	16'-3"
S-9	6X2C16	16'-5 1/2"
S-10	6X2C16	16'-8"
S-11	6X2C16	17'-0"



DESCRIPTION:		FLOOR PLAN	
CUSTOMER:		DLR	PROJECT: MEGA STORAGE LEES SUMMIT
LOCATION:		LEES SUMMIT MO	
DRN. BY	CK'D BY	DATE	SCALE
JB	DES	1/17/22	N.T.S.
REV.	00	QUOTATION NO.	SHEET NO.
		MEGASTORAGELEESUMMITBUILDING#1#3	

Buildings 1, 2 & 3

SOUTH FOOTING LOAD (EXT)			
LENGTH (FT)	100		
COLUMN	C1	C2	C3
# OF COLUMNS	2	12	5
DL (LB)	13	73	25
RL (LB)	63	363	125
SL (LB)	63	363	125
DL SUM (LB)	26	876	125
RL SUM (LB)	126	4356	625
SL SUM (LB)	126	4356	625
DL WALL (PLF)	68		
DL (PLF)	78		
RL (PLF)	51		
SL (PLF)	51		

NORTH FOOTING LOAD (EXT)			
LENGTH (FT)	100		
COLUMN	C1	C2	
# OF COLUMNS	2	17	
DL (LB)	29	57	
RL (LB)	142	284	
SL (LB)	142	284	
DL SUM (LB)	58	969	
RL SUM (LB)	284	4828	
SL SUM (LB)	284	4828	
DL WALL (PLF)	60		
DL (PLF)	70		
RL (PLF)	51		
SL (PLF)	51		

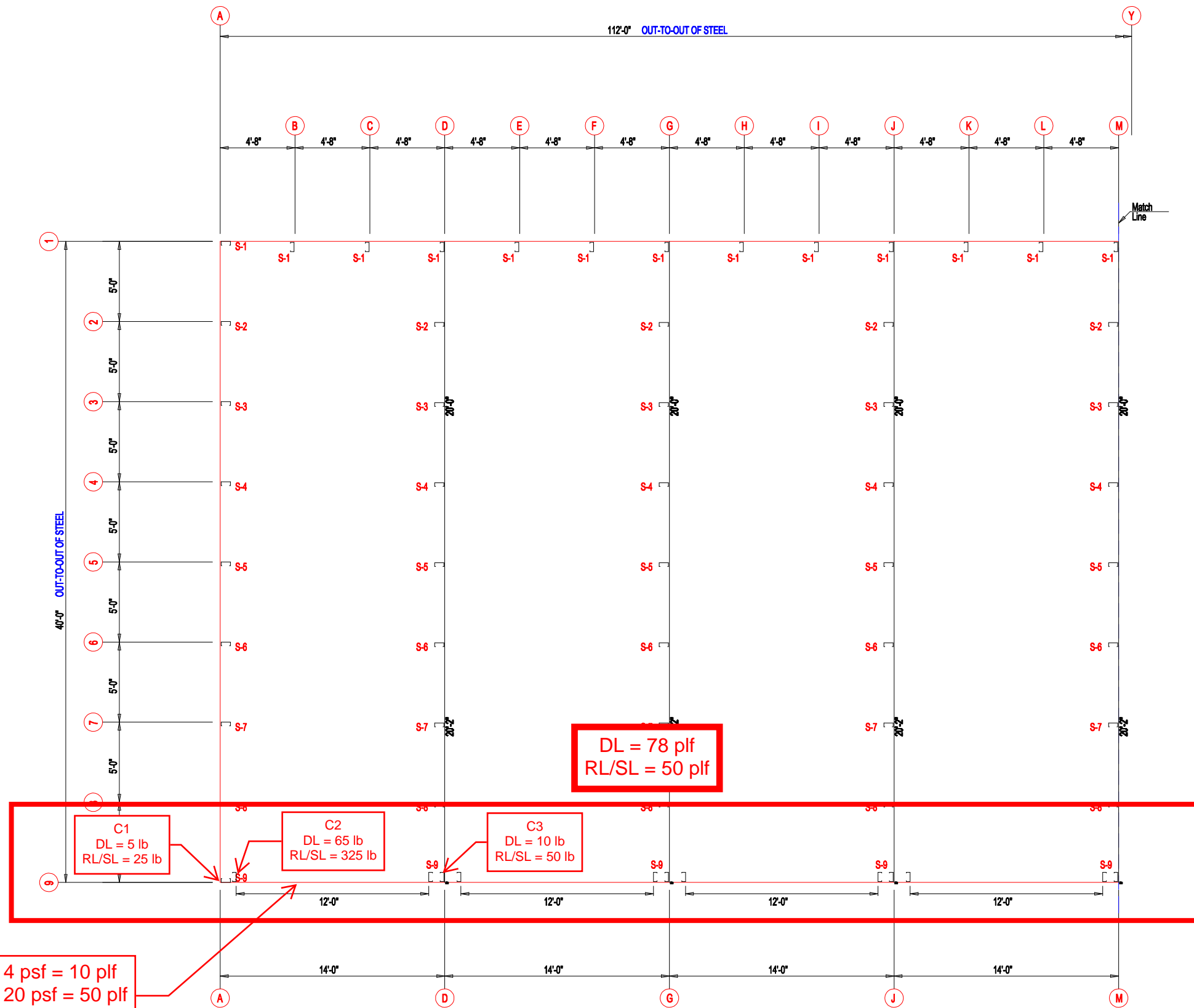
Buildings 1, 2 & 3

WEST FOOTING LOAD (EXT)			
LENGTH (FT)	50		
COLUMN	C1	C2	C3
# OF COLUMNS	1	9	1
DL (LB)	29	85	13
RL (LB)	142	425	63
SL (LB)	142	425	63
DL SUM (LB)	29	765	13
RL SUM (LB)	142	3825	63
SL SUM (LB)	142	3825	63
DL WALL (PLF)	64		
DL (PLF)	72		
RL (PLF)	81		
SL (PLF)	81		

INTERIOR FOOTING LOAD (INT)			
LENGTH (FT)	50		
COLUMN	C1	C2	C3
# OF COLUMNS	1	7	1
DL (LB)	57	170	50
RL (LB)	284	850	250
SL (LB)	284	850	250
DL SUM (LB)	57	1190	50
RL SUM (LB)	284	5950	250
SL SUM (LB)	284	5950	250
DL WALL (PLF)	64		
DL (PLF)	77		
RL (PLF)	130		
SL (PLF)	130		

BUILDINGS 4 & 5

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	14'-9 1/2"
S-2	6X2C16	15'-0"
S-3	6X2C16	15'-2 1/2"
S-4	6X2C16	15'-5"
S-5	6X2C16	15'-7 1/2"
S-6	6X2C16	15'-10"
S-7	6X2C16	16'-0 1/2"
S-8	6X2C16	16'-3"
S-9	6X2C16	16'-7"



SOUTH
FOOTING

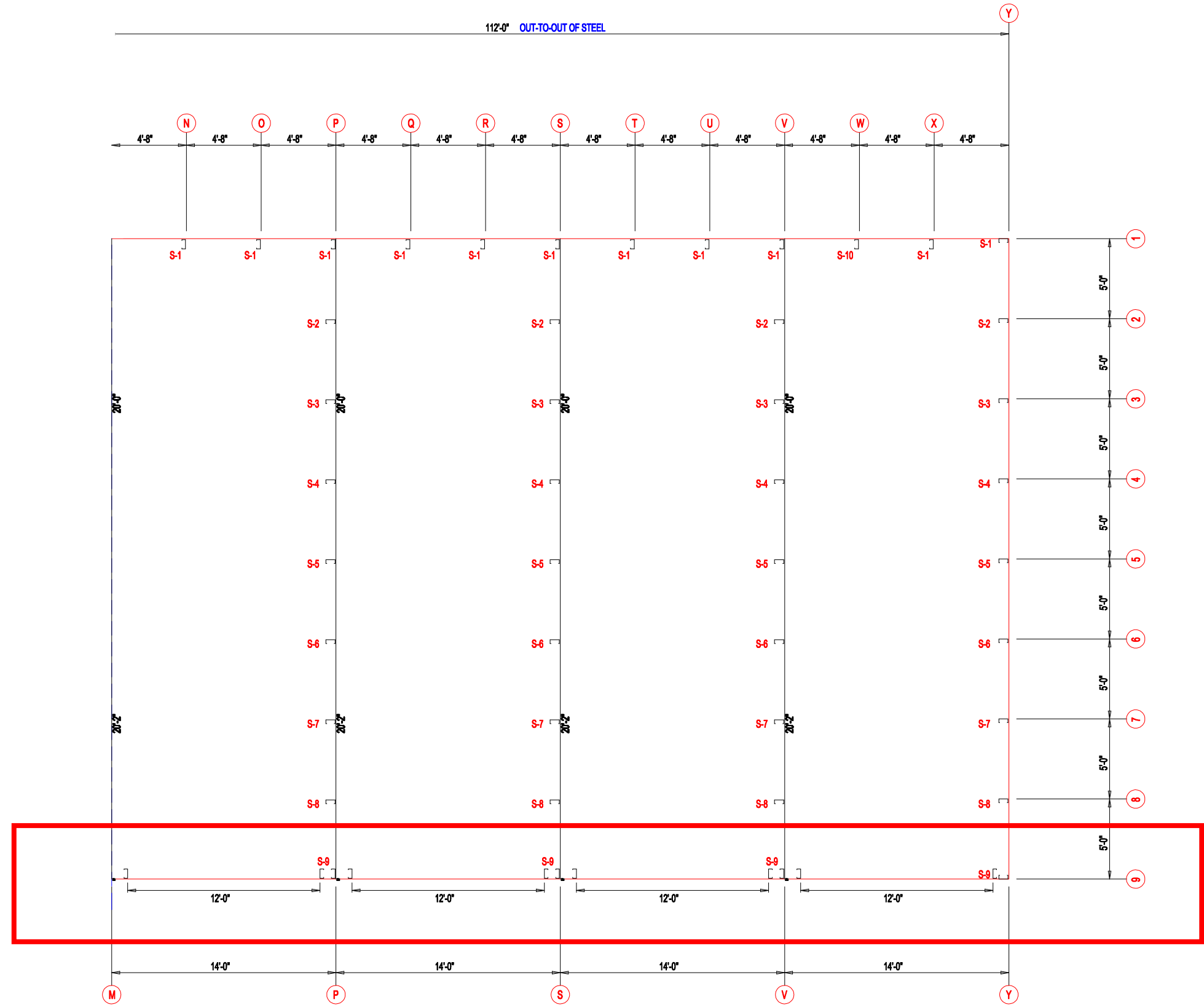
FLOOR PLAN



DESCRIPTION:		FLOOR PLAN	
CUSTOMER:		DLR	PROJECT: MEGA STORAGE LEE SUMMIT 4,5
LOCATION:		LEES SUMMIT MO	
DRN. BY	CKD BY	DATE	SCALE
JB	DES	1/17/22	N.T.S.
REV.	00	QUOTATION NO.	SHEET NO.
		MEGASTORAGELEESUMMITBUILDING#4#5	

906 West 9th Street Pella, IA 50219
(800) 225-0481 www.pellabuildings.com

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	14'-9 1/2"
S-2	6X2C16	15'-0"
S-3	6X2C16	15'-2 1/2"
S-4	6X2C16	15'-5"
S-5	6X2C16	15'-7 1/2"
S-6	6X2C16	15'-10"
S-7	6X2C16	16'-0 1/2"
S-8	6X2C16	16'-3"
S-9	6X2C16	16'-7"
S-10	6X25C14	14'-9 1/2"



SOUTH
FOOTING

FLOOR PLAN

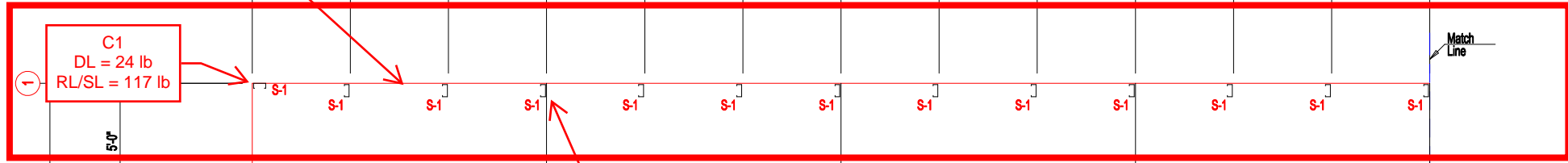


DESCRIPTION:		FLOOR PLAN	
CUSTOMER:		DLR	
PROJECT:		MEGA STORAGE LEE SUMMIT 4,5	
LOCATION:		LEES SUMMIT MO	
DRN. BY	CKD BY	DATE	SCALE
JB	DES	1/17/22	N.T.S.
REV.	00	QUOTATION NO.	SHEET NO.
		MEGASTORAGELEESUMMITBUILDING#4#5	

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	14'-9 1/2"
S-2	6X2C16	15'-0"
S-3	6X2C16	15'-2 1/2"
S-4	6X2C16	15'-5"
S-5	6X2C16	15'-7 1/2"
S-6	6X2C16	15'-10"
S-7	6X2C16	16'-0 1/2"
S-8	6X2C16	16'-3"
S-9	6X2C16	16'-7"

DLW: 14.79 ft x 4 psf = 60 plf

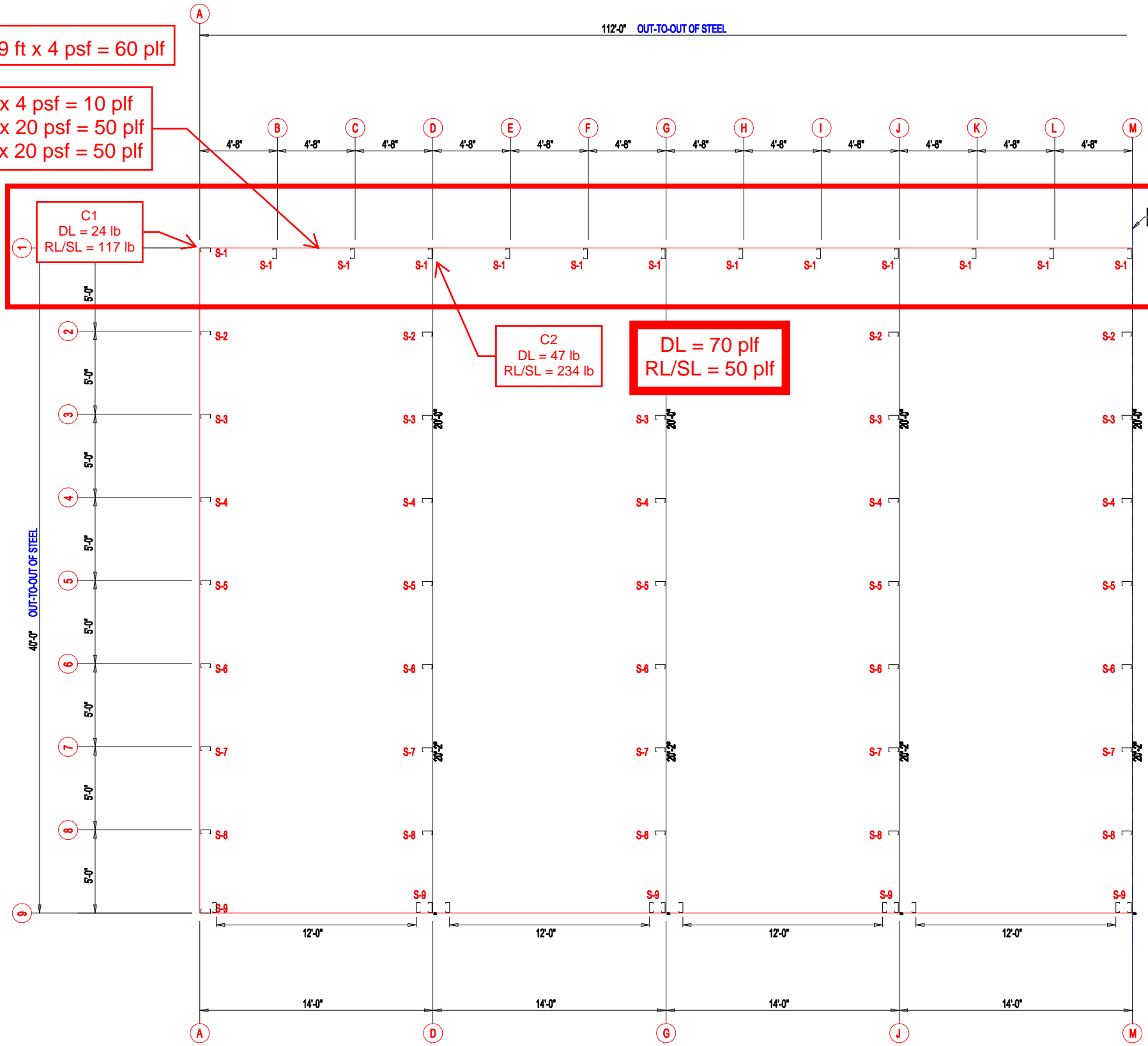
DL: 2.5 ft x 4 psf = 10 plf
 RL: 2.5 ft x 20 psf = 50 plf
 SL: 2.5 ft x 20 psf = 50 plf



C2
 DL = 47 lb
 RL/SL = 234 lb

DL = 70 plf
 RL/SL = 50 plf

**NORTH
 FOOTING**

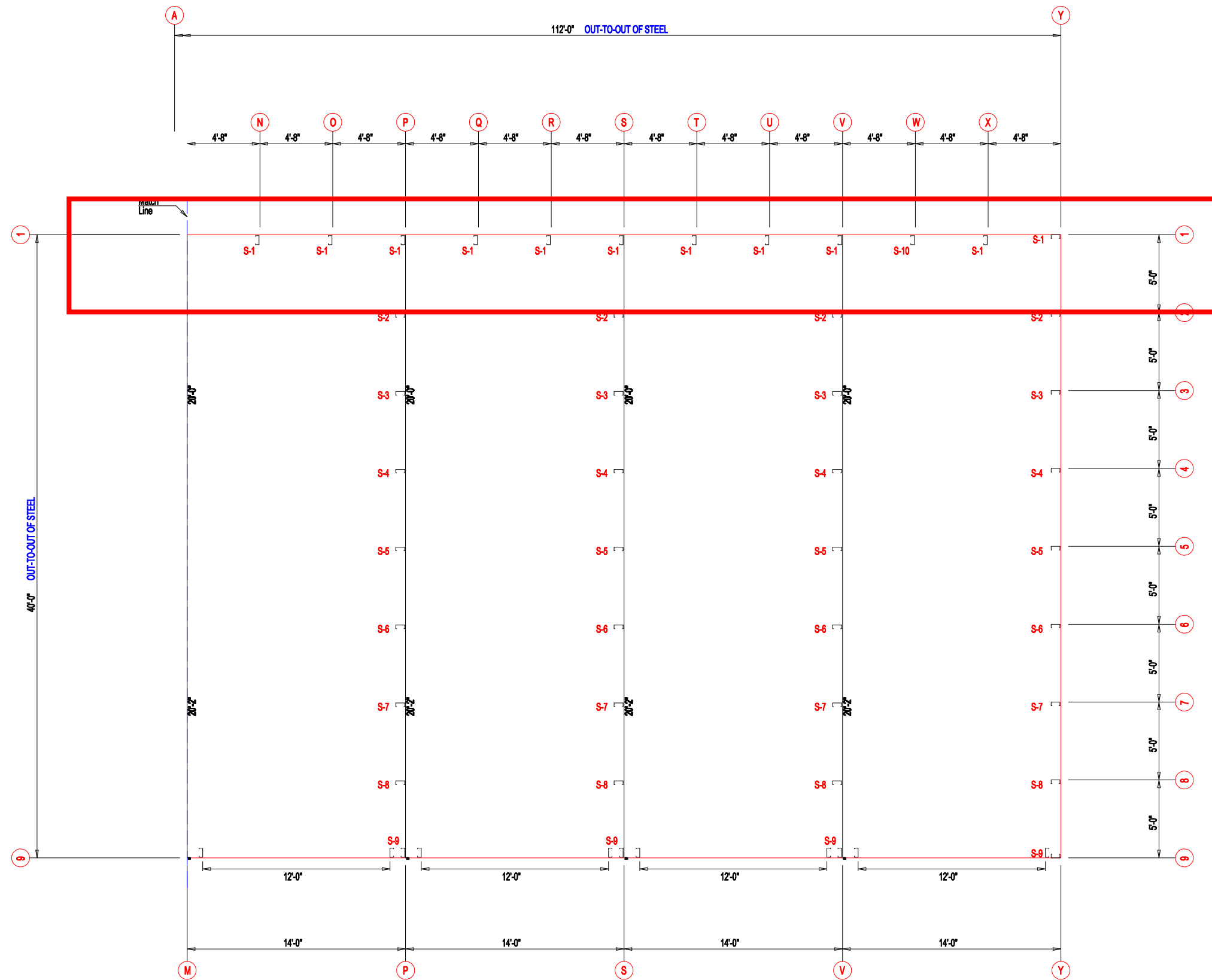


FLOOR PLAN



DESCRIPTION: FLOOR PLAN					
CUSTOMER: DLR			PROJECT: MEGA STORAGE LEE SUMMIT 4,5		
LOCATION: LEES SUMMIT MO					
DRN. BY JB	CKD BY DES	DATE 1/17/22	SCALE N.T.S.	REV. 00	QUOTATION NO. MEGASTORAGELEESUMMITBUILDING#4#5
					SHEET NO.

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	14'-9 1/2"
S-2	6X2C16	15'-0"
S-3	6X2C16	15'-2 1/2"
S-4	6X2C16	15'-5"
S-5	6X2C16	15'-7 1/2"
S-6	6X2C16	15'-10"
S-7	6X2C16	16'-0 1/2"
S-8	6X2C16	16'-3"
S-9	6X2C16	16'-7"
S-10	6X25C14	14'-9 1/2"



NORTH
FOOTING

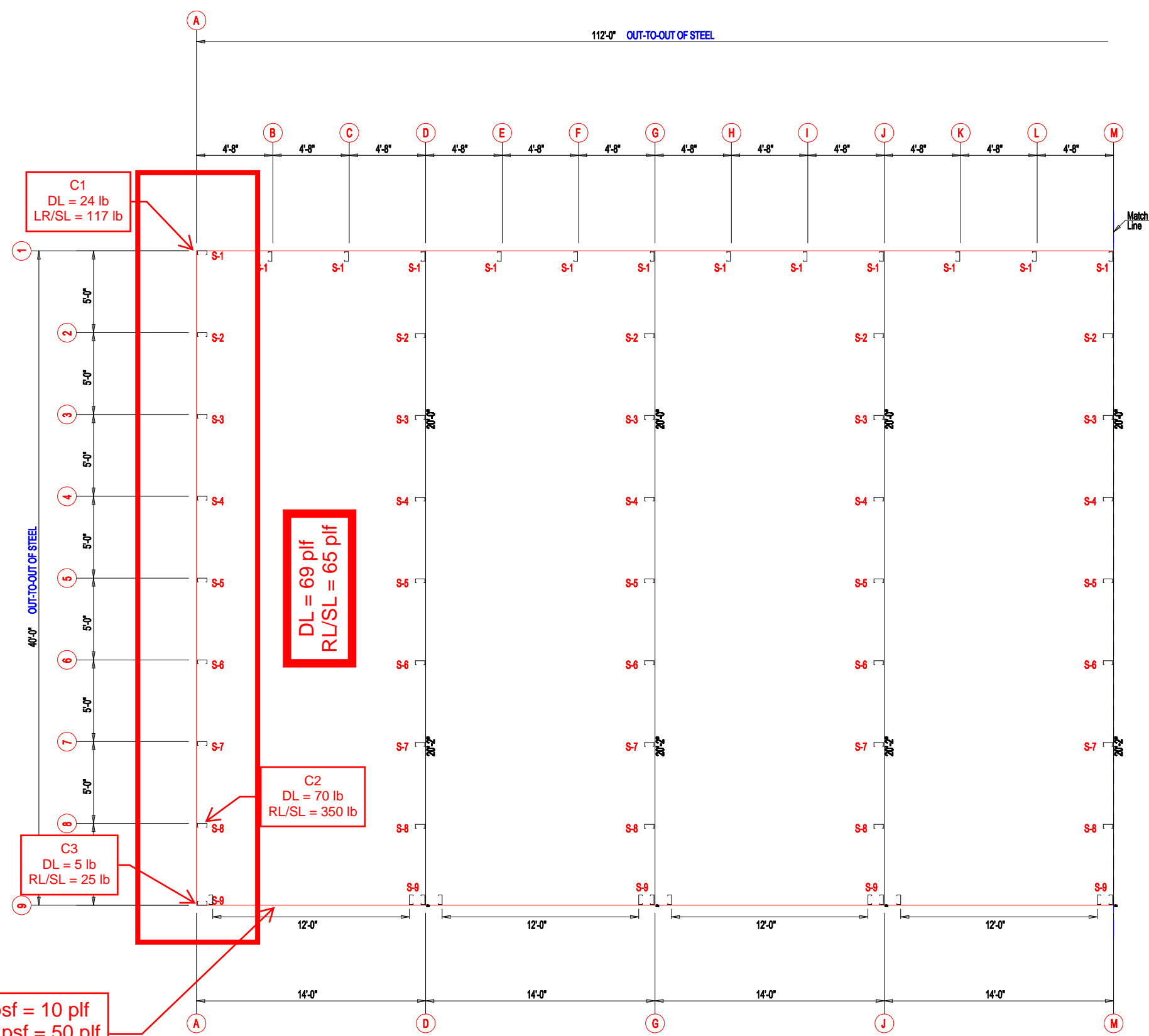
FLOOR PLAN



906 West 9th Street Pella, IA 50219
(800) 225-0481 www.pellabuildings.com

DESCRIPTION: FLOOR PLAN					
CUSTOMER: DLR			PROJECT: MEGA STORAGE LEE SUMMIT 4,5		
LOCATION: LEES SUMMIT MO					
DRN. BY JB	CK'D BY DES	DATE 1/17/22	SCALE N.T.S.	REV. 00	QUOTATION NO. MEGASTORAGELEESUMMITBUILDING#4#5
					SHEET NO.

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	14'-9 1/2"
S-2	6X2C16	15'-0"
S-3	6X2C16	15'-2 1/2"
S-4	6X2C16	15'-5"
S-5	6X2C16	15'-7 1/2"
S-6	6X2C16	15'-10"
S-7	6X2C16	16'-0 1/2"
S-8	6X2C16	16'-3"
S-9	6X2C16	16'-7"



DLW: 16 ft x 4 psf = 64 plf

DL = 69 plf
RL/SL = 65 plf

C2
DL = 70 lb
RL/SL = 350 lb

C3
DL = 5 lb
RL/SL = 25 lb

DL: 2.5 ft x 4 psf = 10 plf
RL: 2.5 ft x 20 psf = 50 plf
SL: 2.5 ft x 20 psf = 50 plf

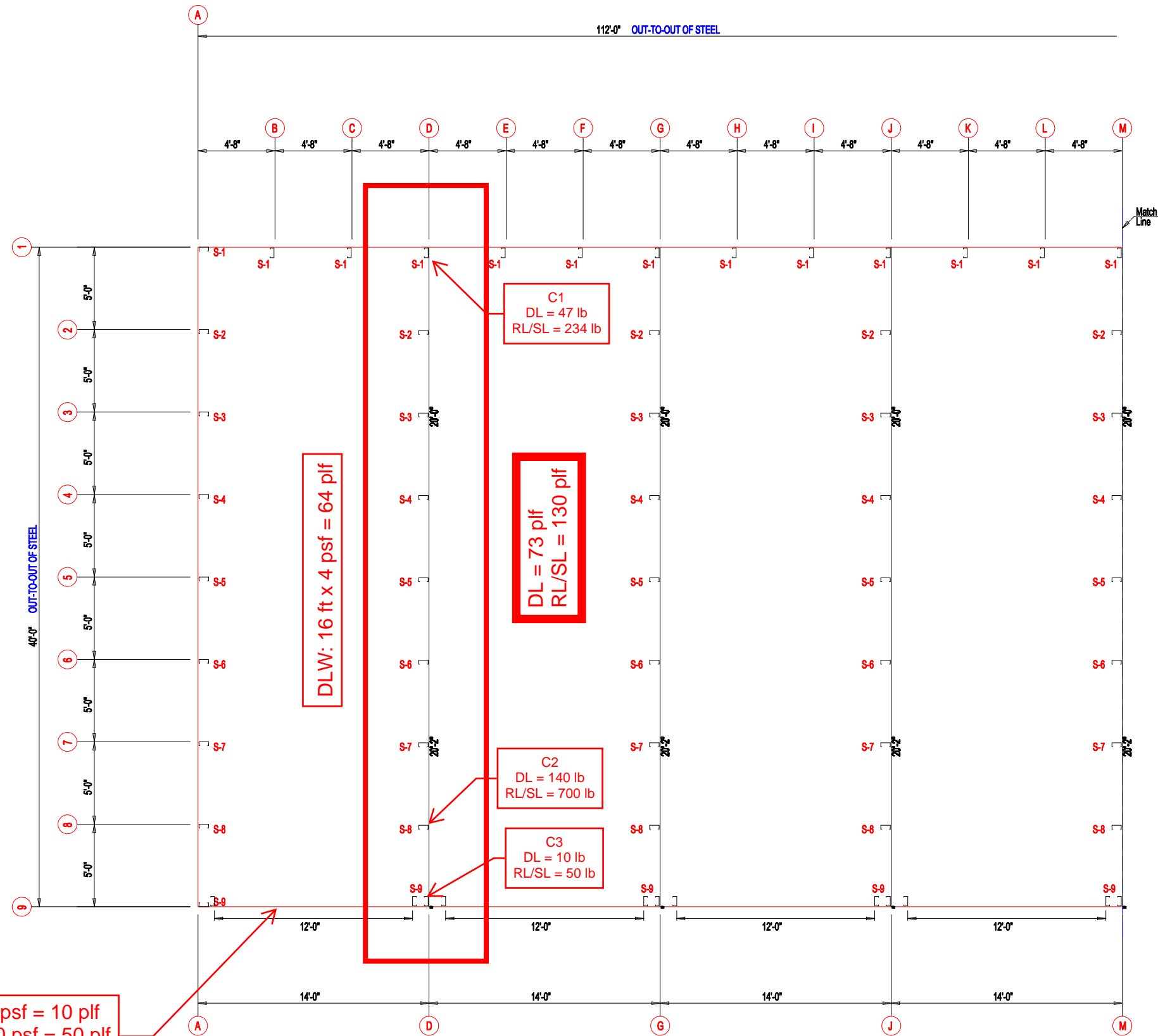
WEST FOOTING

FLOOR PLAN



DESCRIPTION:		FLOOR PLAN	
CUSTOMER:		DLR	PROJECT: MEGA STORAGE LEE SUMMIT 4,5
LOCATION:		LEES SUMMIT MO	
DRN. BY	CKD BY	DATE	SCALE
JB	DES	1/17/22	N.T.S.
REV.	00	QUOTATION NO.	SHEET NO.
		MEGASTORAGELEESUMMITBUILDING#4#5	

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	14'-9 1/2"
S-2	6X2C16	15'-0"
S-3	6X2C16	15'-2 1/2"
S-4	6X2C16	15'-5"
S-5	6X2C16	15'-7 1/2"
S-6	6X2C16	15'-10"
S-7	6X2C16	16'-0 1/2"
S-8	6X2C16	16'-3"
S-9	6X2C16	16'-7"



DLW: 16 ft x 4 psf = 64 plf

DL = 73 plf
RL/SL = 130 plf

C2
DL = 140 lb
RL/SL = 700 lb

C3
DL = 10 lb
RL/SL = 50 lb

DL: 2.5 ft x 4 psf = 10 plf
RL: 2.5 ft x 20 psf = 50 plf
SL: 2.5 ft x 20 psf = 50 plf

**INTERIOR
FOOTING**

FLOOR PLAN



DESCRIPTION:		FLOOR PLAN	
CUSTOMER:		DLR	PROJECT: MEGA STORAGE LEE SUMMIT 4,5
LOCATION:		LEES SUMMIT MO	
DRN. BY	CK'D BY	DATE	SCALE
JB	DES	1/17/22	N.T.S.
REV.	00	QUOTATION NO.	SHEET NO.
		MEGASTORAGELEESUMMITBUILDING#4,5	#4,5

Buildings 4 & 5

SOUTH FOOTING LOAD (EXT)			
LENGTH (FT)	112		
COLUMN	C1	C2	C3
# OF COLUMNS	2	16	7
DL (LB)	5	65	10
RL (LB)	25	325	50
SL (LB)	25	325	50
DL SUM (LB)	10	1040	70
RL SUM (LB)	50	5200	350
SL SUM (LB)	50	5200	350
DL WALL (PLF)	68		
DL (PLF)	78		
RL (PLF)	50		
SL (PLF)	50		

NORTH FOOTING LOAD (EXT)			
LENGTH (FT)	112		
COLUMN	C1	C2	
# OF COLUMNS	2	23	
DL (LB)	24	47	
RL (LB)	117	234	
SL (LB)	117	234	
DL SUM (LB)	48	1081	
RL SUM (LB)	234	5382	
SL SUM (LB)	234	5382	
DL WALL (PLF)	60		
DL (PLF)	70		
RL (PLF)	50		
SL (PLF)	50		

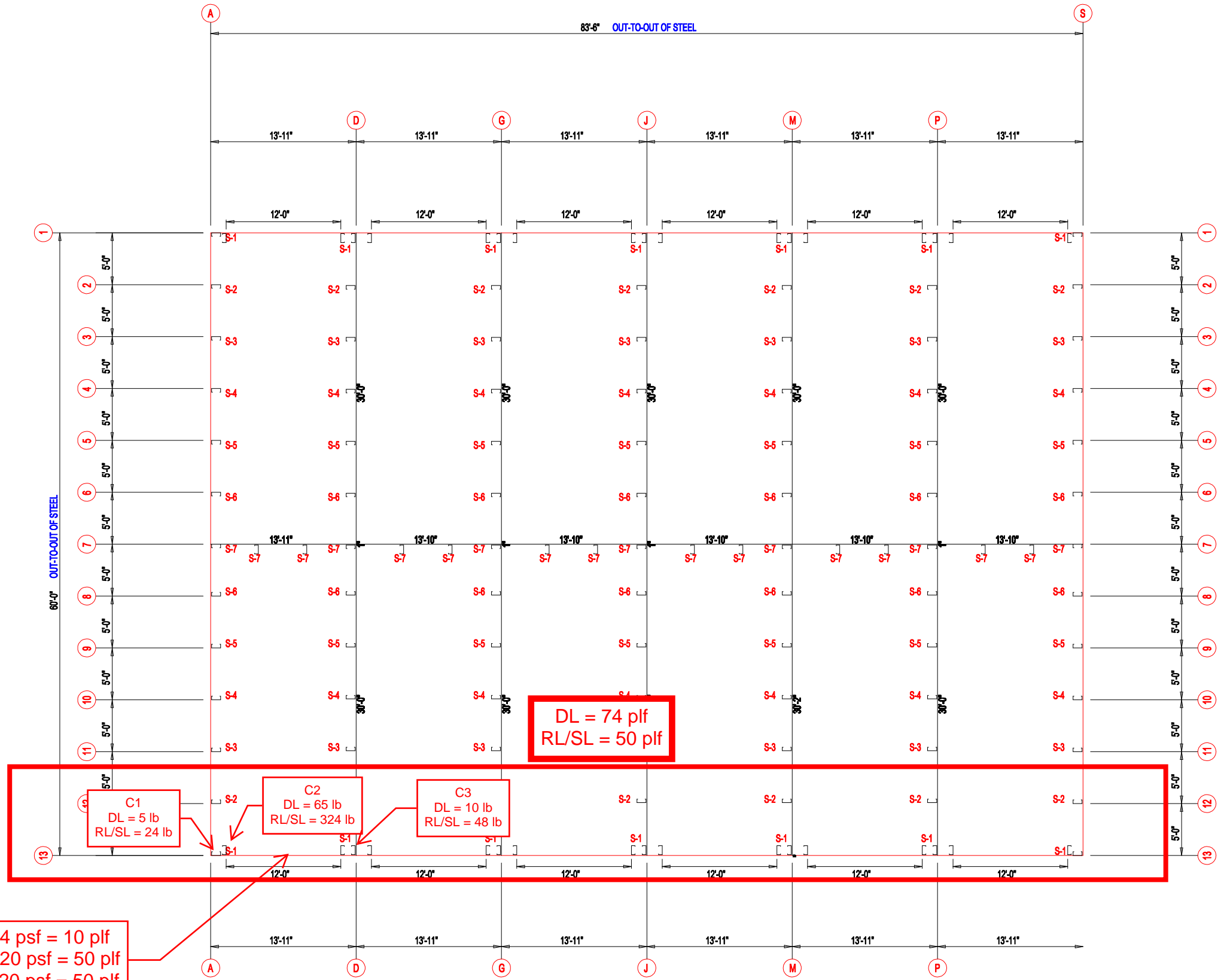
Buildings 4 & 5

WEST FOOTING LOAD (EXT)			
LENGTH (FT)	40		
COLUMN	C1	C2	C3
# OF COLUMNS	1	7	1
DL (LB)	24	70	5
RL (LB)	117	350	25
SL (LB)	117	350	25
DL SUM (LB)	24	490	5
RL SUM (LB)	117	2450	25
SL SUM (LB)	117	2450	25
DL WALL (PLF)	64		
DL (PLF)	69		
RL (PLF)	65		
SL (PLF)	65		

INTERIOR FOOTING LOAD (INT)			
LENGTH (FT)	40		
COLUMN	C1	C2	C3
# OF COLUMNS	1	7	1
DL (LB)	47	140	10
RL (LB)	234	700	50
SL (LB)	234	700	50
DL SUM (LB)	47	980	10
RL SUM (LB)	234	4900	50
SL SUM (LB)	234	4900	50
DL WALL (PLF)	64		
DL (PLF)	73		
RL (PLF)	130		
SL (PLF)	130		

BUILDINGS 8, 13, 14 & 15

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	16'-0"
S-2	6X2C16	16'-1"
S-3	6X2C16	16'-3 1/2"
S-4	6X2C16	16'-6"
S-5	6X2C16	16'-8 1/2"
S-6	6X2C16	16'-11"
S-7	6X2C16	17'-1 1/2"



SOUTH
FOOTING

DL: 2.5 ft x 4 psf = 10 plf
RL: 2.5 ft x 20 psf = 50 plf
SL: 2.5 ft x 20 psf = 50 plf

DLW: 15.9 ft x 4 psf = 64 plf

FLOOR PLAN



DESCRIPTION:		FLOOR PLAN	
CUSTOMER:		DLR	PROJECT: MEGA STORAGE LEES SUMMIT
LOCATION:		LEE'S SUMMIT	
DRN. BY	CK'D BY	DATE	SCALE
JB	DES	1/17/22	N.T.S.
REV.	00	QUOTATION NO.	SHEET NO.
		MEGASTORAGELEESUMMIT#824#14#15	

DLW: 15.9 ft x 4 psf = 64 plf

DL: 2.5 ft x 4 psf = 10 plf
 RL: 2.5 ft x 20 psf = 50 plf
 SL: 2.5 ft x 20 psf = 50 plf

C1
 DL = 5 lb
 RL/SL = 24 lb

C2
 DL = 65 lb
 RL/SL = 324 lb

C3
 DL = 10 lb
 RL/SL = 48 lb

DL = 74 plf
 RL/SL = 50 plf

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	16'-0"
S-2	6X2C16	16'-1"
S-3	6X2C16	16'-3 1/2"
S-4	6X2C16	16'-6"
S-5	6X2C16	16'-8 1/2"
S-6	6X2C16	16'-11"
S-7	6X2C16	17'-1 1/2"



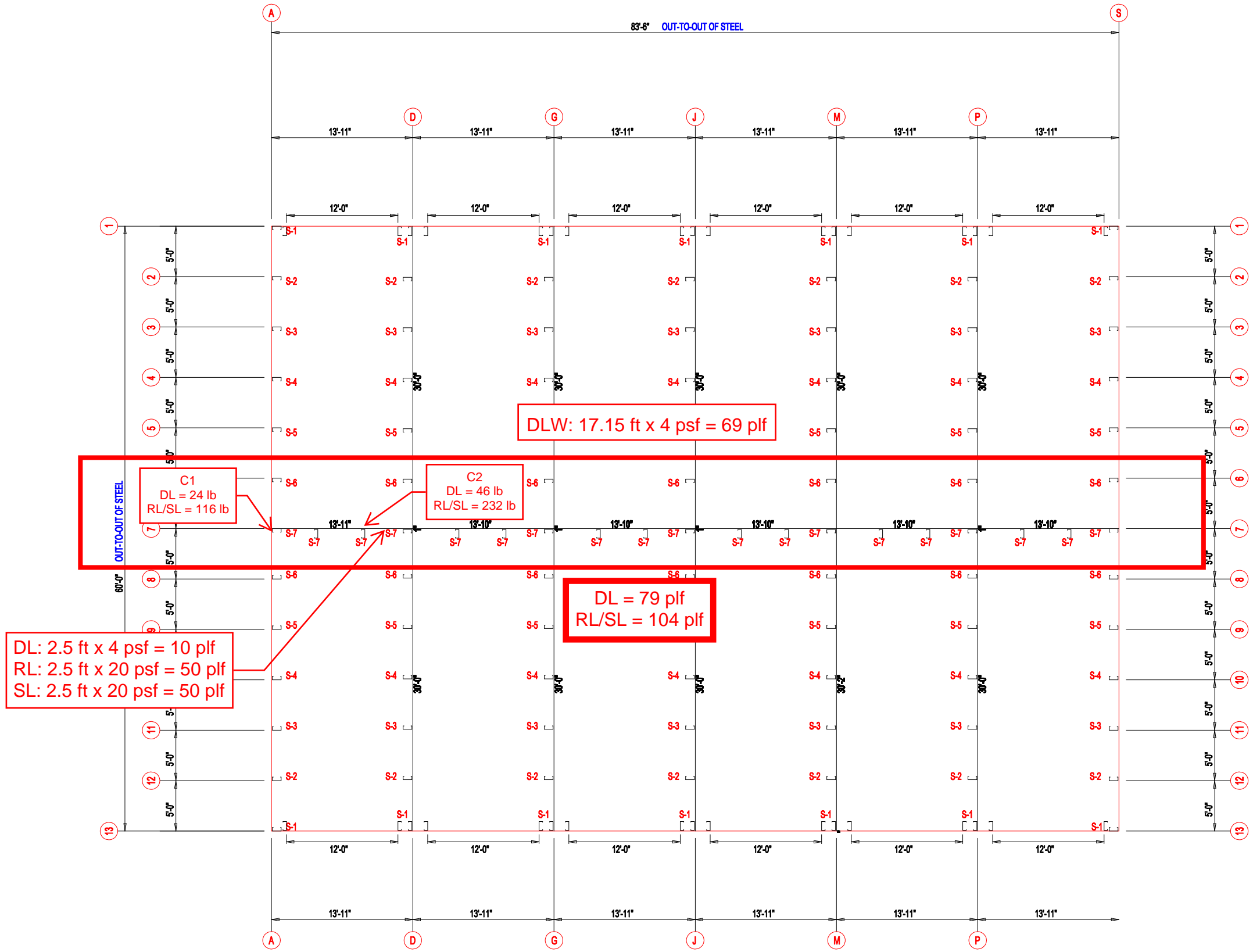
**NORTH
FOOTING**

FLOOR PLAN



DESCRIPTION:		FLOOR PLAN	
CUSTOMER:		DLR	PROJECT: MEGA STORAGE LEES SUMMIT
LOCATION:		LEE'S SUMMIT	
DRN. BY	CK'D BY	DATE	SCALE
JB	DES	1/17/22	N.T.S.
REV.	00	QUOTATION NO.	SHEET NO.
		MEGASTORAGELEESUMMIT#8#24#14#15	

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	16'-0"
S-2	6X2C16	16'-1"
S-3	6X2C16	16'-3 1/2"
S-4	6X2C16	16'-6"
S-5	6X2C16	16'-8 1/2"
S-6	6X2C16	16'-11"
S-7	6X2C16	17'-1 1/2"



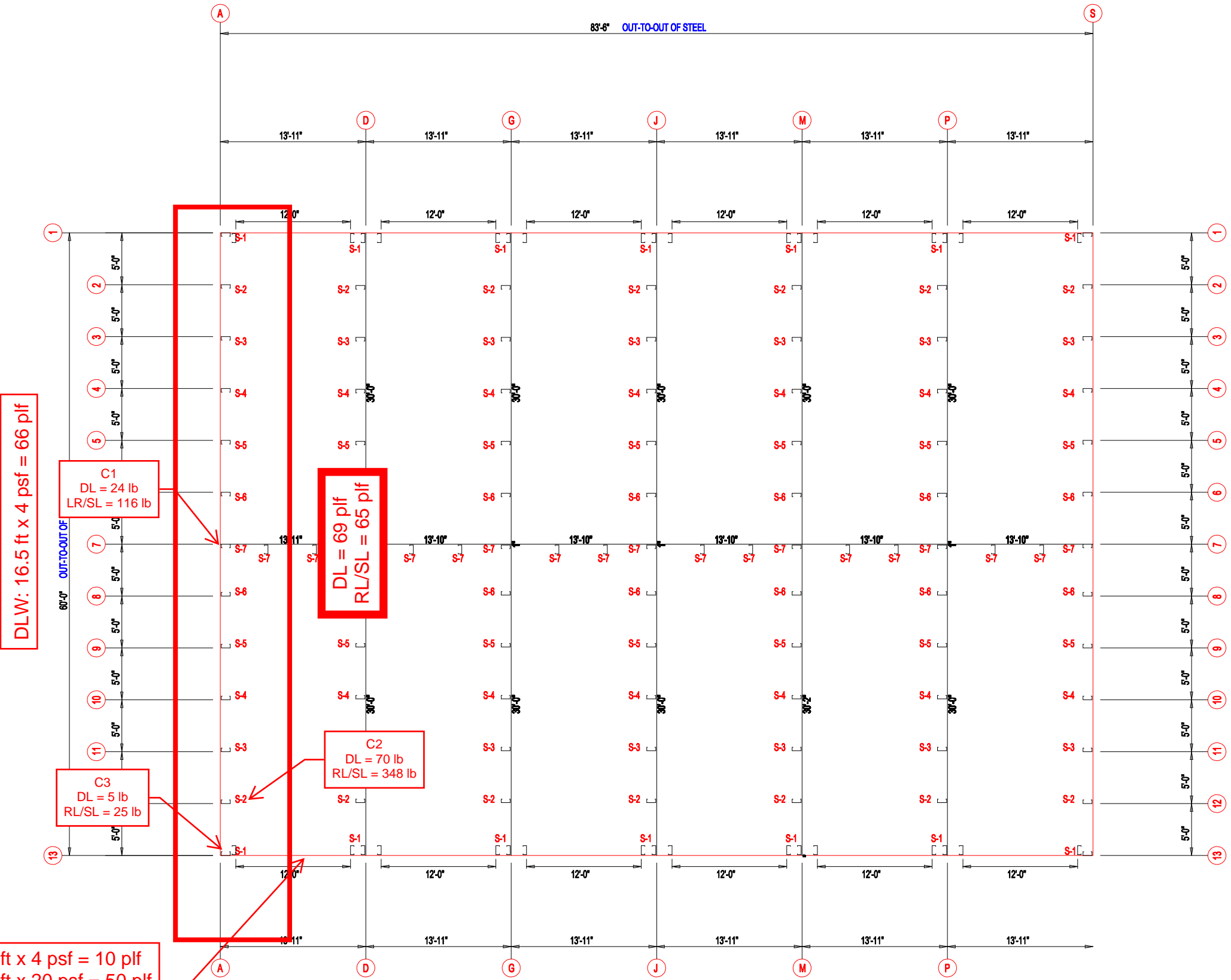
CENTER
INTERIOR
FOOTING

FLOOR PLAN



DESCRIPTION:		FLOOR PLAN	
CUSTOMER:		DLR	PROJECT: MEGA STORAGE LEES SUMMIT
LOCATION:		LEE'S SUMMIT	
DRN. BY	CK'D BY	DATE	SCALE
JB	DES	1/17/22	N.T.S.
REV.	00	QUOTATION NO.	SHEET NO.
		MEGASTORAGELEESUMMIT#824#14#15	

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	16'-0"
S-2	6X2C16	16'-1"
S-3	6X2C16	16'-3 1/2"
S-4	6X2C16	16'-6"
S-5	6X2C16	16'-8 1/2"
S-6	6X2C16	16'-11"
S-7	6X2C16	17'-1 1/2"



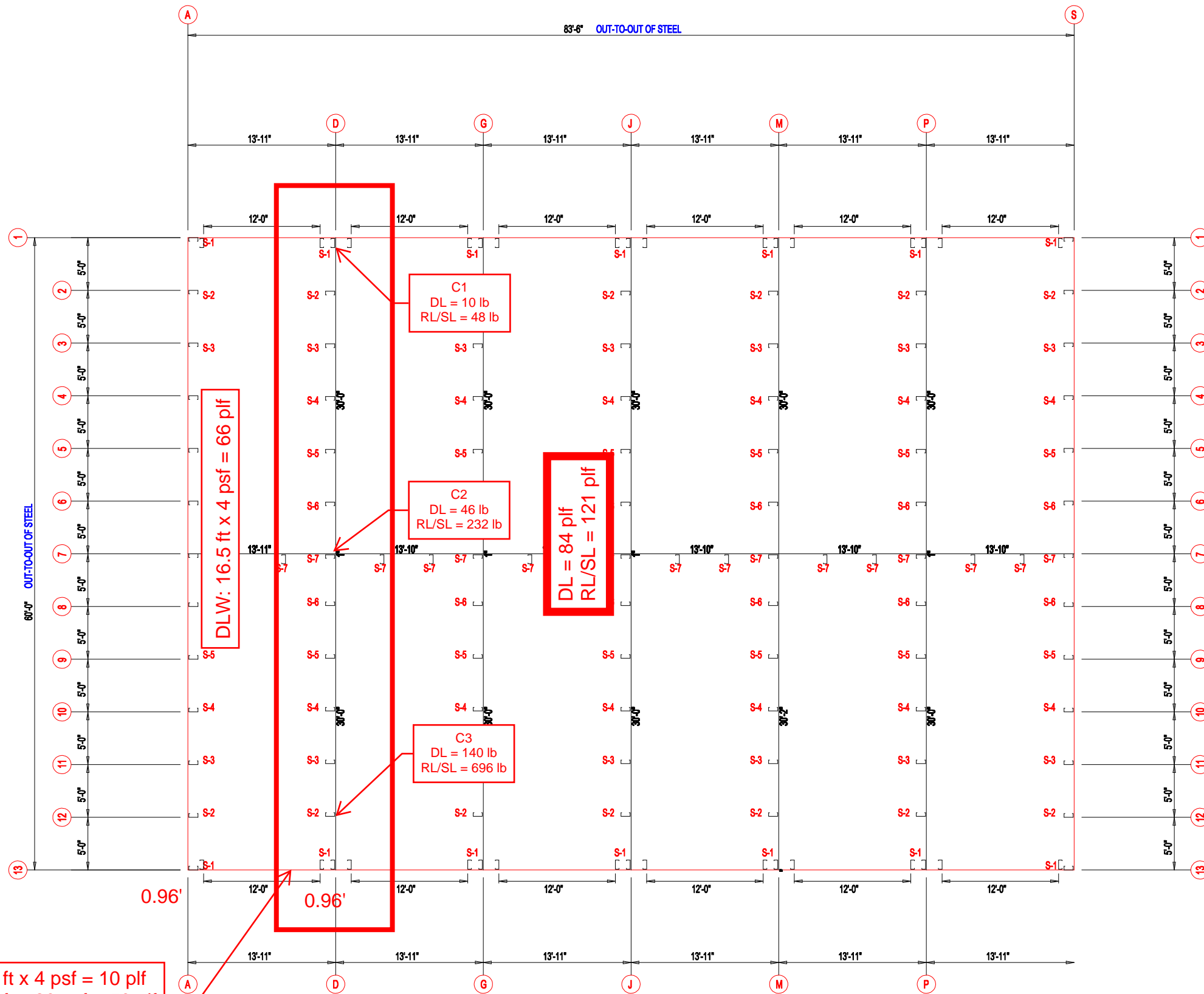
WEST
FOOTING

FLOOR PLAN



DESCRIPTION:		FLOOR PLAN	
CUSTOMER:		DLR	PROJECT: MEGA STORAGE LEES SUMMIT
LOCATION:		LEE'S SUMMIT	
DRN. BY	CK'D BY	DATE	SCALE
JB	DES	1/17/22	N.T.S.
REV.	00	QUOTATION NO.	SHEET NO.
		MEGASTORAGELEESUMMIT#824#14#15	

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	16'-0"
S-2	6X2C16	16'-1"
S-3	6X2C16	16'-3 1/2"
S-4	6X2C16	16'-6"
S-5	6X2C16	16'-8 1/2"
S-6	6X2C16	16'-11"
S-7	6X2C16	17'-1 1/2"



INTERIOR FOOTING

DL: 2.5 ft x 4 psf = 10 plf
 RL: 2.5 ft x 20 psf = 50 plf
 SL: 2.5 ft x 20 psf = 50 plf

DLW: 16.5 ft x 4 psf = 66 plf

C1
DL = 10 lb
RL/SL = 48 lb

C2
DL = 46 lb
RL/SL = 232 lb

C3
DL = 140 lb
RL/SL = 696 lb

DL = 84 plf
RL/SL = 121 plf

FLOOR PLAN



DESCRIPTION: FLOOR PLAN		PROJECT: MEGA STORAGE LEES SUMMIT	
CUSTOMER: DLR		LOCATION: LEE'S SUMMIT	
DRN. BY: JB	CK'D BY: DES	DATE: 1/17/22	SCALE: N.T.S.
REV: 00	QUOTATION NO. MEGASTORAGELEESUMMIT#824#14#15	SHEET NO. 14#15	

Buildings 8, 13, 14 & 15

SOUTH FOOTING LOAD (EXT)			
LENGTH (FT)	83.5		
COLUMN	C1	C2	C3
# OF COLUMNS	2	12	5
DL (LB)	5	65	10
RL (LB)	24	324	48
SL (LB)	24	324	48
DL SUM (LB)	10	780	50
RL SUM (LB)	48	3888	240
SL SUM (LB)	48	3888	240
DL WALL (PLF)	64		
DL (PLF)	74		
RL (PLF)	50		
SL (PLF)	50		

NORTH FOOTING LOAD (EXT)			
LENGTH (FT)	83.5		
COLUMN	C1	C2	
# OF COLUMNS	2	12	5
DL (LB)	5	65	10
RL (LB)	24	324	48
SL (LB)	24	324	48
DL SUM (LB)	10	780	50
RL SUM (LB)	48	3888	240
SL SUM (LB)	48	3888	240
DL WALL (PLF)	64		
DL (PLF)	74		
RL (PLF)	50		
SL (PLF)	50		

Buildings 8, 13, 14 & 15

WEST FOOTING LOAD (EXT)			
LENGTH (FT)	60		
COLUMN	C1	C2	C3
# OF COLUMNS	1	10	2
DL (LB)	24	70	5
RL (LB)	116	348	25
SL (LB)	116	348	25
DL SUM (LB)	24	700	10
RL SUM (LB)	116	3480	50
SL SUM (LB)	116	3480	50
DL WALL (PLF)	66		
DL (PLF)	75		
RL (PLF)	61		
SL (PLF)	61		

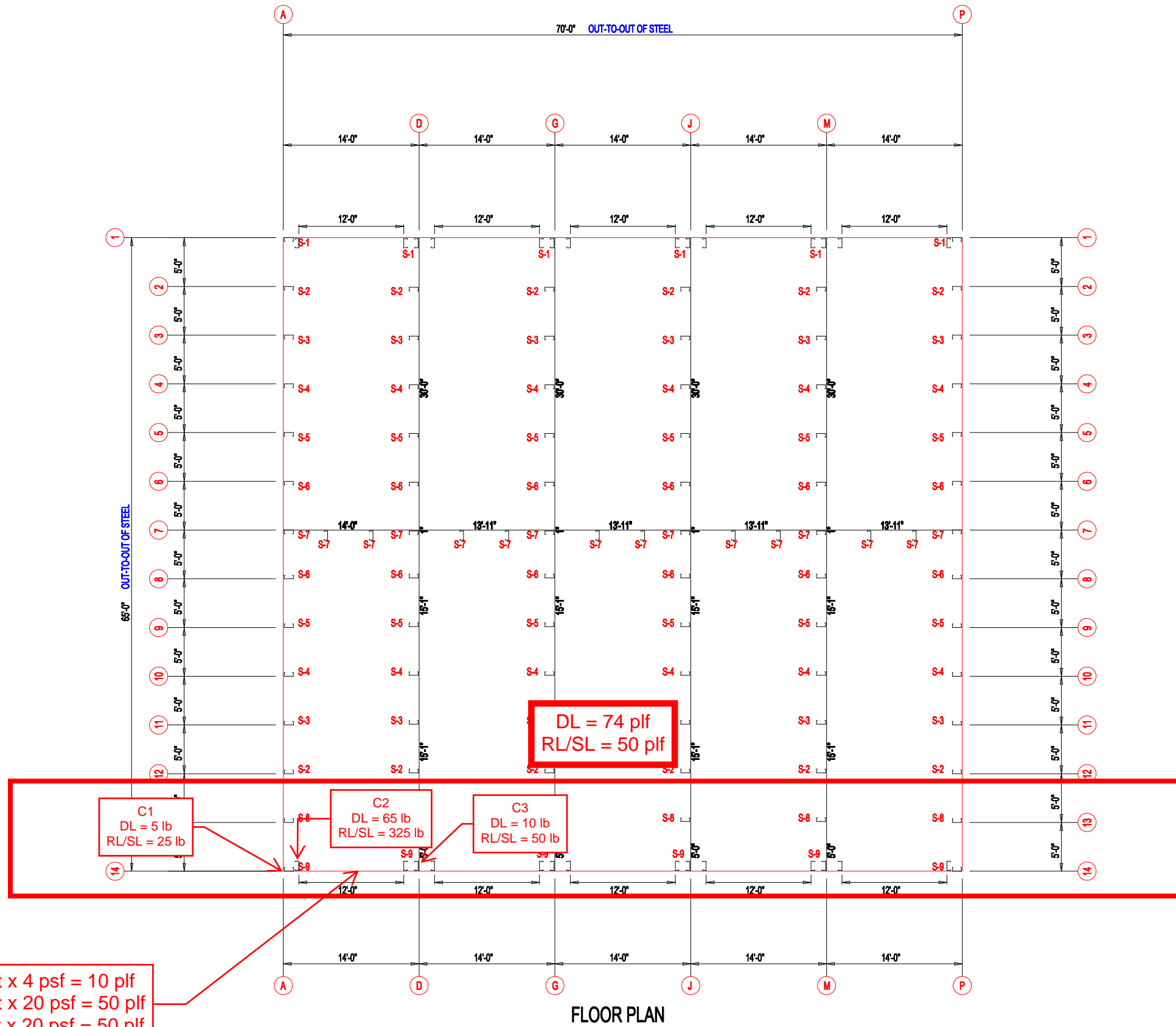
INTERIOR FOOTING LOAD (INT)			
LENGTH (FT)	60		
COLUMN	C1	C2	C3
# OF COLUMNS	2	1	10
DL (LB)	10	46	140
RL (LB)	48	232	696
SL (LB)	48	232	696
DL SUM (LB)	20	46	1400
RL SUM (LB)	96	232	6960
SL SUM (LB)	96	232	6960
DL WALL (PLF)	66		
DL (PLF)	84		
RL (PLF)	121		
SL (PLF)	121		

Buildings 8, 13, 14 & 15

CENTER INTERIOR FOOTING LOAD (INT)			
LENGTH (FT)	83.5		
COLUMN	C1	C2	
# OF COLUMNS	2	17	
DL (LB)	24	46	
RL (LB)	116	232	
SL (LB)	116	232	
DL SUM (LB)	48	782	0
RL SUM (LB)	232	3944	0
SL SUM (LB)	232	3944	0
DL WALL (PLF)	69		
DL (PLF)	79		
RL (PLF)	70		
SL (PLF)	70		

BUILDINGS 9 & 10

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	16'-2 1/2"
S-2	6X2C16	16'-3 1/2"
S-3	6X2C16	16'-6"
S-4	6X2C16	16'-8 1/2"
S-5	6X2C16	16'-11"
S-6	6X2C16	17'-1 1/2"
S-7	6X2C16	17'-4"
S-8	6X2C16	16'-1"
S-9	6X2C16	16'-0"



SOUTH
FOOTING

DL = 74 plf
RL/SL = 50 plf

C1
DL = 5 lb
RL/SL = 25 lb

C2
DL = 65 lb
RL/SL = 325 lb

C3
DL = 10 lb
RL/SL = 50 lb

DL: 2.5 ft x 4 psf = 10 plf
RL: 2.5 ft x 20 psf = 50 plf
SL: 2.5 ft x 20 psf = 50 plf

DLW: 15.9 ft x 4 psf = 64 plf

FLOOR PLAN

<p style="font-size: 0.8em; margin-top: 5px;">906 West 9th Street Pella, IA 50219 (800) 225-0481 www.pellabuildings.com</p>	DESCRIPTION: FLOOR PLAN		CUSTOMER: DLR		PROJECT: MEGA STORAGE LEES SUMMIT 9,10		
	LOCATION: LEE'S SUMMIT MO		DRN. BY: JB	CK'D BY: DES	DATE: 1/17/22	SCALE: N.T.S.	REV: 00
	QUOTATION NO. MEGASTORAGELEESUMMIT#9#20		SHEET NO. 9#20				

DLW: 16.1 ft x 4 psf = 65 plf

DL: 2.5 ft x 4 psf = 10 plf
 RL: 2.5 ft x 20 psf = 50 plf
 SL: 2.5 ft x 20 psf = 50 plf

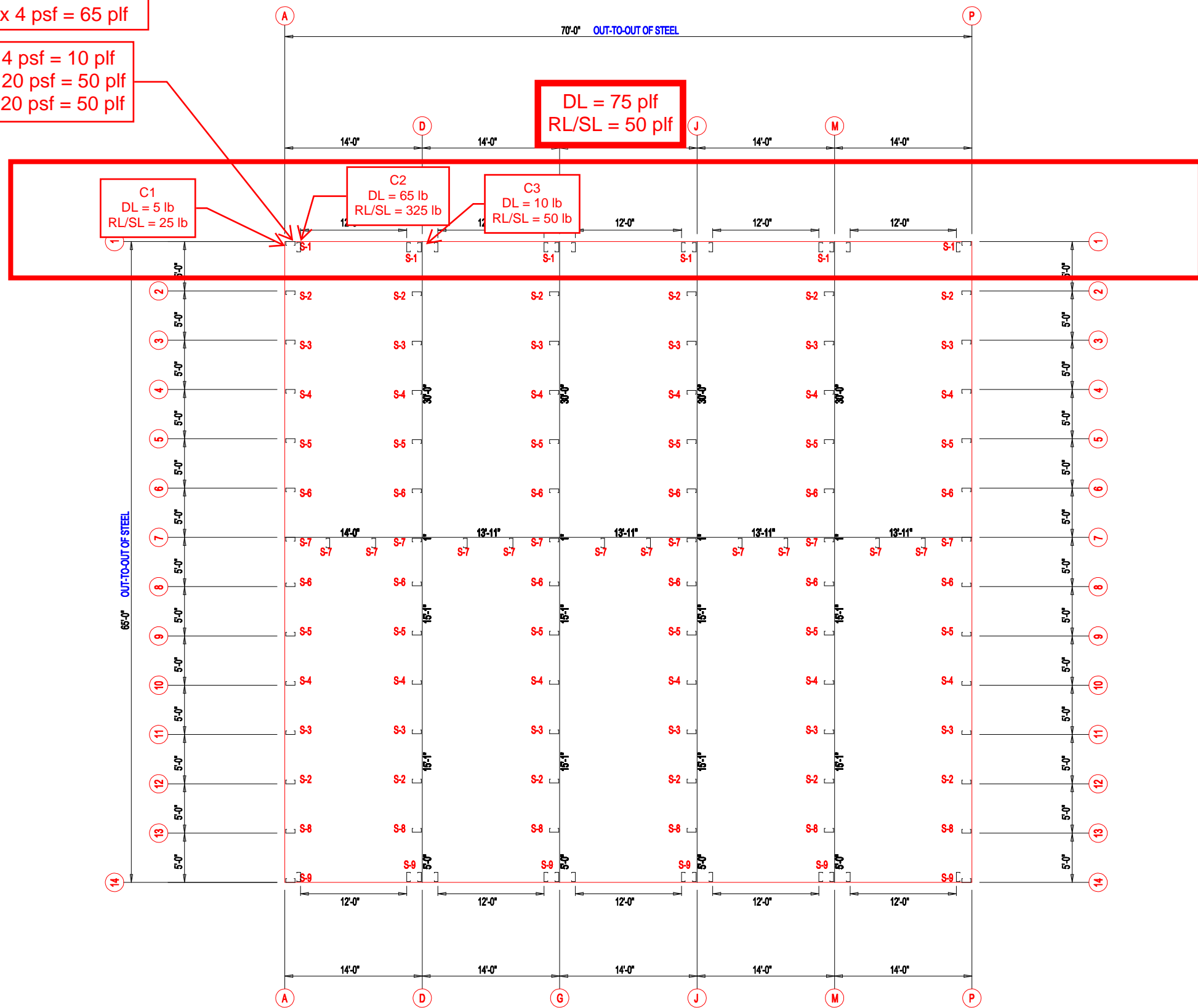
DL = 75 plf
 RL/SL = 50 plf

C1
 DL = 5 lb
 RL/SL = 25 lb

C2
 DL = 65 lb
 RL/SL = 325 lb


C3
 DL = 10 lb
 RL/SL = 50 lb

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	16'-2 1/2"
S-2	6X2C16	16'-3 1/2"
S-3	6X2C16	16'-6"
S-4	6X2C16	16'-8 1/2"
S-5	6X2C16	16'-11"
S-6	6X2C16	17'-1 1/2"
S-7	6X2C16	17'-4"
S-8	6X2C16	16'-1"
S-9	6X2C16	16'-0"

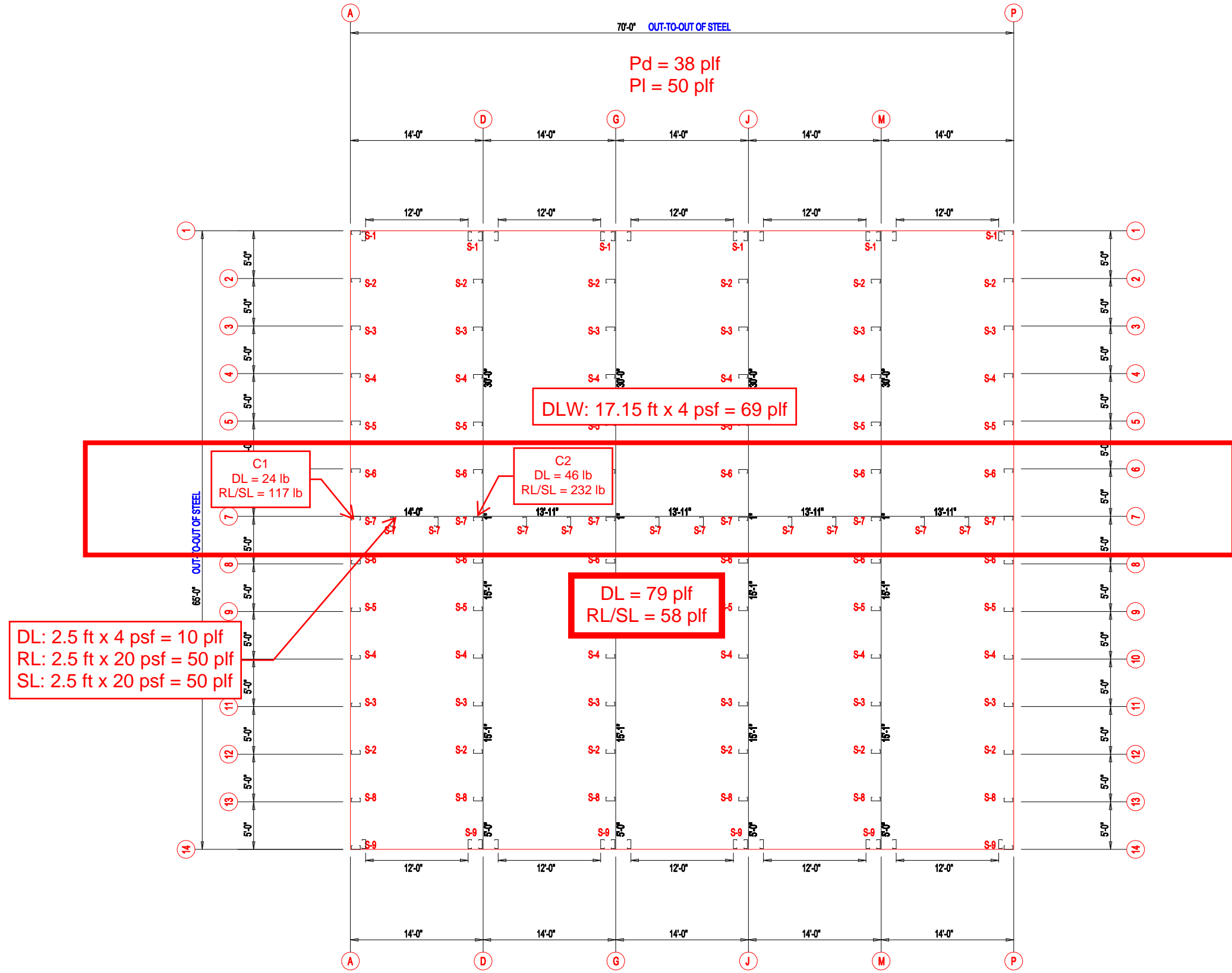


**NORTH
FOOTING**

FLOOR PLAN


		DESCRIPTION: FLOOR PLAN			
		CUSTOMER: DLR	PROJECT: MEGA STORAGE LEES SUMMIT 9,10		
LOCATION: LEE'S SUMMIT MO					
DRN. BY: JB	CK'D BY: DES	DATE: 1/17/22	SCALE: N.T.S.	REV.: 00	QUOTATION NO. MEGASTORAGELEESUMMIT#9#20
					SHEET NO. 10

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	16'-2 1/2"
S-2	6X2C16	16'-3 1/2"
S-3	6X2C16	16'-6"
S-4	6X2C16	16'-8 1/2"
S-5	6X2C16	16'-11"
S-6	6X2C16	17'-1 1/2"
S-7	6X2C16	17'-4"
S-8	6X2C16	16'-1"
S-9	6X2C16	16'-0"

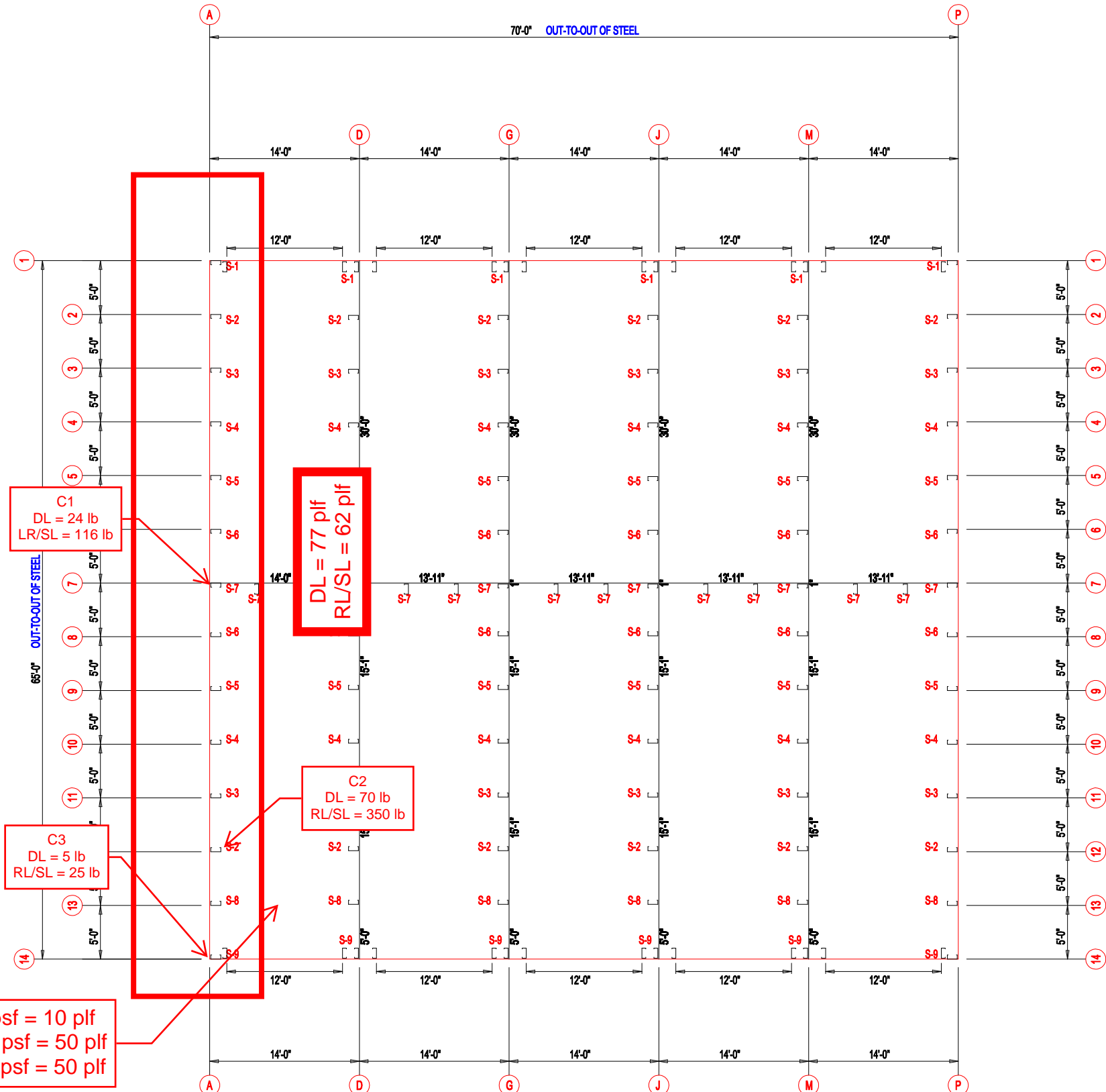


CENTER
INTERIOR
FOOTING

FLOOR PLAN


		DESCRIPTION: FLOOR PLAN			
		CUSTOMER: DLR	PROJECT: MEGA STORAGE LEES SUMMIT 9,10		
LOCATION: LEE'S SUMMIT MO		DRN. BY: JB	CK'D BY: DES	DATE: 1/17/22	SCALE: N.T.S.
906 West 9th Street Pella, IA 50219 (800) 225-0481 www.pellabuildings.com		REV: 00	QUOTATION NO. MEGASTORAGELEESUMMIT#9#20	SHEET NO. 20	

MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	16'-2 1/2"
S-2	6X2C16	16'-3 1/2"
S-3	6X2C16	16'-6"
S-4	6X2C16	16'-8 1/2"
S-5	6X2C16	16'-11"
S-6	6X2C16	17'-1 1/2"
S-7	6X2C16	17'-4"
S-8	6X2C16	16'-1"
S-9	6X2C16	16'-0"

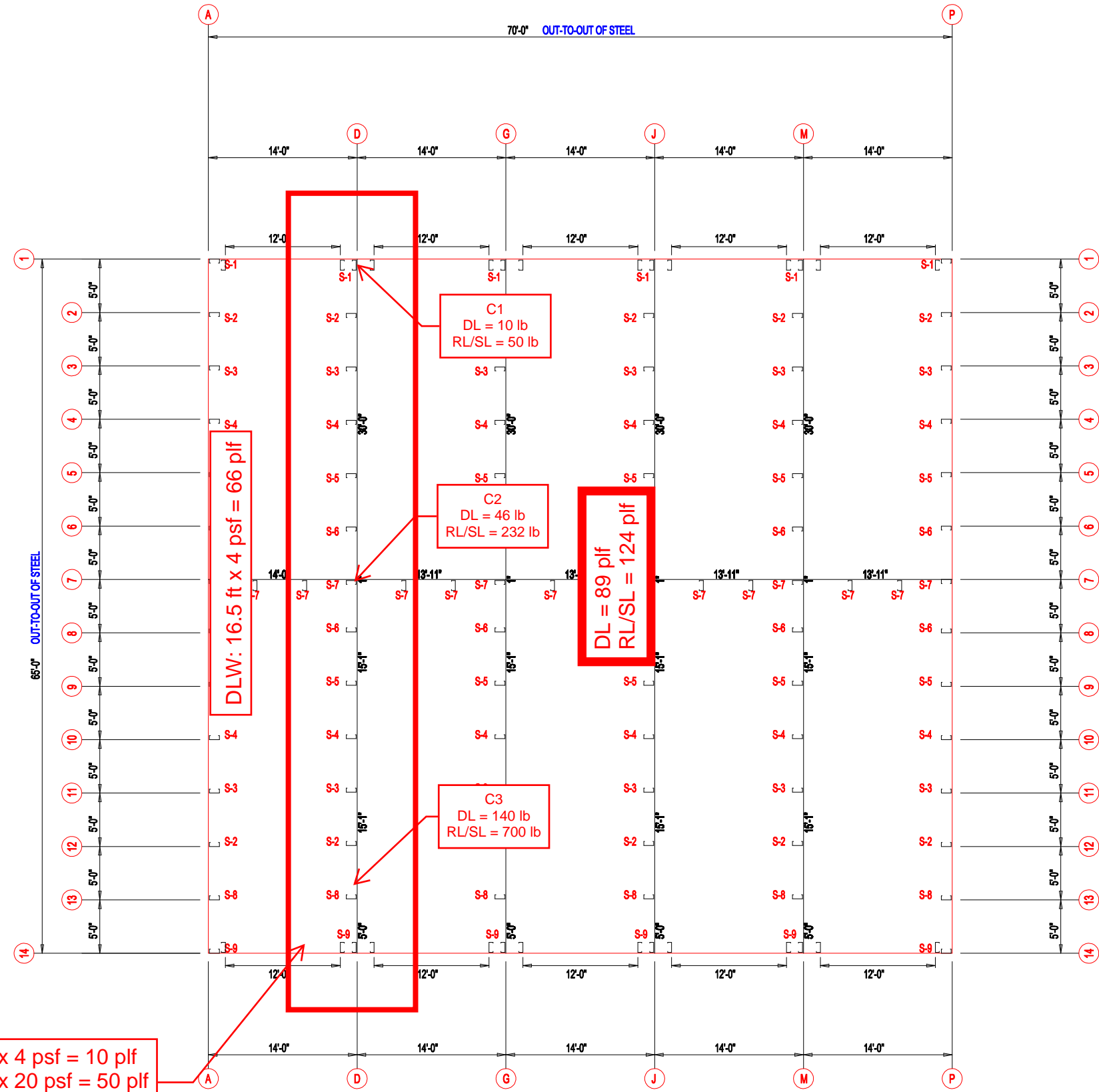


FLOOR PLAN

**WEST
FOOTING**

		DESCRIPTION: FLOOR PLAN	
		CUSTOMER: DLR	PROJECT: MEGA STORAGE LEES SUMMIT 9,10
LOCATION: LEE'S SUMMIT MO			
DRN. BY: JB	CK'D BY: DES	DATE: 1/17/22	SCALE: N.T.S.
REV: 00	QUOTATION NO. MEGASTORAGELEESUMMIT#9#20	SHEET NO. 10	


MEMBER TABLE		
MARK	PART	LENGTH
S-1	6X2C16	16'-2 1/2"
S-2	6X2C16	16'-3 1/2"
S-3	6X2C16	16'-6"
S-4	6X2C16	16'-8 1/2"
S-5	6X2C16	16'-11"
S-6	6X2C16	17'-1 1/2"
S-7	6X2C16	17'-4"
S-8	6X2C16	16'-1"
S-9	6X2C16	16'-0"



INTERIOR
FOOTING

DL: 2.5 ft x 4 psf = 10 plf
 RL: 2.5 ft x 20 psf = 50 plf
 SL: 2.5 ft x 20 psf = 50 plf

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		CUSTOMER: DLR	PROJECT: MEGA STORAGE LEES SUMMIT 9,10		
LOCATION: LEE'S SUMMIT MO		DRN. BY: JB	CK'D BY: DES	DATE: 1/17/22	SCALE: N.T.S.
906 West 9th Street Pella, IA 50219 (800) 225-0481 www.pellabuildings.com		REV: 00	QUOTATION NO. MEGASTORAGELEESUMMIT#9#20	SHEET NO. 9/10	

Buildings 9 & 10

SOUTH FOOTING LOAD (EXT)			
LENGTH (FT)	70		
COLUMN	C1	C2	C3
# OF COLUMNS	2	10	4
DL (LB)	5	65	10
RL (LB)	25	325	50
SL (LB)	25	325	50
DL SUM (LB)	10	650	40
RL SUM (LB)	50	3250	200
SL SUM (LB)	50	3250	200
DL WALL (PLF)	64		
DL (PLF)	74		
RL (PLF)	50		
SL (PLF)	50		

NORTH FOOTING LOAD (EXT)			
LENGTH (FT)	70		
COLUMN	C1	C2	
# OF COLUMNS	2	10	4
DL (LB)	5	65	10
RL (LB)	25	325	50
SL (LB)	25	325	50
DL SUM (LB)	10	650	40
RL SUM (LB)	50	3250	200
SL SUM (LB)	50	3250	200
DL WALL (PLF)	65		
DL (PLF)	75		
RL (PLF)	50		
SL (PLF)	50		

Buildings 9 & 10

WEST FOOTING LOAD (EXT)			
LENGTH (FT)	65		
COLUMN	C1	C2	C3
# OF COLUMNS	1	11	2
DL (LB)	24	70	5
RL (LB)	116	350	25
SL (LB)	116	350	25
DL SUM (LB)	24	770	10
RL SUM (LB)	116	3850	50
SL SUM (LB)	116	3850	50
DL WALL (PLF)	66		
DL (PLF)	77		
RL (PLF)	62		
SL (PLF)	62		

INTERIOR FOOTING LOAD (INT)			
LENGTH (FT)	65		
COLUMN	C1	C2	C3
# OF COLUMNS	2	1	11
DL (LB)	10	46	140
RL (LB)	50	232	700
SL (LB)	50	232	700
DL SUM (LB)	20	46	1540
RL SUM (LB)	100	232	7700
SL SUM (LB)	100	232	7700
DL WALL (PLF)	66		
DL (PLF)	89		
RL (PLF)	124		
SL (PLF)	124		

Buildings 9 & 10

CENTER INTERIOR FOOTING LOAD (INT)			
LENGTH (FT)	70		
COLUMN	C1	C2	
# OF COLUMNS	2	14	
DL (LB)	24	46	
RL (LB)	117	232	
SL (LB)	117	232	
DL SUM (LB)	48	644	0
RL SUM (LB)	234	3248	0
SL SUM (LB)	234	3248	0
DL WALL (PLF)	69		
DL (PLF)	79		
RL (PLF)	54		
SL (PLF)	54		