





NO. DRAWN: CHECKED: REVIEWED: APPROVED: **REVISIONS:** BushBr 7/29/2014 BushBr 1/14/2015 New Drawing
Update Post Lengths and Embedments
Update Foundation Embedment Depth
Update Post Lengths & Girder Length BushBr 2/3/2015 BushBr 2/11/2015

Schletter Inc. 2201 North Forbes Boulevard Tucson, AZ 85745

SCHLETTER

3761 E. FARNUM PLACE | TUCSON, AZ 85706 TEL: (520) 289 - 8700 | FAX: (520) 289 - 8695 EMAIL: MAIL@SCHLETTER.US WWW.SCHLETTER.US

Standard FS 60 Cell - 20° Racking Structure

Dimensions and Specifications ISSUED BY: SCHLETTER INC.

PROPRIETARY AND CONFIDENTIAL

Project Site: Schletter Inc.

1001 Commerce Center Dr Shelby, NC 28150

Drawing Number:

JOB NUMBER: v SCALE: SHEET: 2 of 3

SEE DRAWING VIEWS

1 2	3 4	5	6 7	8 9		10 11	12	13 14 15	16 17
			ASCE 7-05 CROUND SLOPED TENSION	N SHEAR DRILLED SHAFT		ASCE 7-05 W/ SEISMIC			
		TILT WIN		N SHEAR DEBTISET	TILT WIN		TENSION SHEAR DEPTH 2 FT DIAMETER X		
				P 2.54 KIP 6.75 FT P 2.38 KIP 7.00 FT			6.44 KIP 2.54 KIP 6.75 FT 6.03 KIP 2.38 KIP 7.00 FT		
		85 N		P 2.14 KIP 7.25 FT P 1.96 KIP 7.50 FT	85 M	20 PSF 13.75 PSF 13.0 FT PH 30 PSF 20.62 PSF 11.5 FT			
				P 1.80 KIP 7.50 FT P 1.64 KIP 7.25 FT		40 PSF 27.49 PSF 9.0 FT 50 PSF 34.36 PSF 8.0 FT			
			60 PSF 41.42 PSF 8.0 FT 3.31 KIF	P 1.61 KIP 7.50 FT P 2.67 KIP 6.75 FT		60 PSF 41.42 PSF 7.5 FT 0 PSF 0.00 PSF 14.5 FT	3.09 KIP 1.54 KIP 7.25 FT		
			10 PSF 6.87 PSF 14.0 FT 6.59 KIF	P 2.58 KIP 7.00 FT P 2.31 KIP 7.25 FT			6.59 KIP 2.58 KIP 7.00 FT		
		90 M	PH 30 PSF 20.62 PSF 11.5 FT 5.42 KIF	P 2.17 KIP 7.75 FT P 1.99 KIP 7.50 FT	90 M		5.42 KIP 2.17 KIP 7.75 FT		
			50 PSF 34.36 PSF 8.5 FT 3.99 KIF	P 1.81 KIP 7.50 FT P 1.69 KIP 7.25 FT		50 PSF 34.36 PSF 8.0 FT 60 PSF 41.42 PSF 7.5 FT	3.75 KIP 1.73 KIP 7.25 FT		
			0 PSF 0.00 PSF 12.0 FT 7.10 KIF	P 2.75 KIP 6.75 FT P 2.75 KIP 6.75 FT		0 PSF 0.00 PSF 12.0 FT 10 PSF 6.87 PSF 12.0 FT	7.10 KIP 2.75 KIP 6.75 FT		
		100 M	20 PSF 13.75 PSF 12.0 FT 7.10 KIF	P 2.75 KIP 7.50 FT P 2.55 KIP 7.75 FT	100 M	20 PSF 13.75 PSF 12.0 FT	7.10 KIP 2.75 KIP 7.50 FT		
		100	40 PSF 27.49 PSF 9.5 FT 5.61 KIF	P 2.31 KIP 7.50 FT	100 10	40 PSF 27.49 PSF 9.0 FT	5.31 KIP 2.22 KIP 7.50 FT		
		20°	60 PSF 41.42 PSF 7.5 FT 4.40 KIF	P 2.17 KIP 7.50 FT P 2.02 KIP 7.50 FT	20°	60 PSF 41.42 PSF 7.5 FT	4.70 KIP 2.07 KIP 7.25 FT 4.40 KIP 2.02 KIP 7.50 FT		
			10 PSF 6.87 PSF 10.0 FT 7.24 KIF	P 2.79 KIP 6.50 FT		10 PSF 6.87 PSF 10.0 FT			
		110 1	/IPH 30 PSF 20.62 PSF 10.0 FT 7.24 KIP		110 N	20 PSF 13.75 PSF 10.0 FT 30 PSF 20.62 PSF 10.0 FT	7.24 KIP 2.82 KIP 7.50 FT		
				P 2.45 KIP 7.50 FT		40 PSF 27.49 PSF 9.0 FT 50 PSF 34.36 PSF 8.0 FT	5.76 KIP 2.45 KIP 7.50 FT		
			0 PSF 0.00 PSF 8.5 FT 7.37 KIF	P 2.25 KIP 7.25 FT P 2.84 KIP 6.25 FT		60 PSF 41.42 PSF 7.0 FT 0 PSF 0.00 PSF 8.5 FT	7.37 KIP 2.84 KIP 6.25 FT		
			20 PSF 13.75 PSF 8.5 FT 7.37 KIF	P 2.84 KIP 6.25 FT P 2.88 KIP 6.75 FT		10 PSF 6.87 PSF 8.5 FT 20 PSF 13.75 PSF 8.5 FT	7.37 KIP 2.88 KIP 6.75 FT		
		120 M	40 PSF 27.49 PSF 8.5 FT 7.37 KIF	P 2.92 KIP 7.25 FT P 2.97 KIP 7.50 FT	120 N	40 PSF 27.49 PSF 8.5 FT	7.37 KIP 2.97 KIP 7.50 FT		
			50 PSF 34.36 PSF 7.5 FT 6.47 KIF 60 PSF 41.42 PSF 7.0 FT 6.02 KIF			50 PSF 34.36 PSF 7.5 FT 60 PSF 41.42 PSF 7.0 FT	6.47 KIP 2.73 KIP 7.50 FT 6.02 KIP 2.63 KIP 7.50 FT		
			0 PSF 0.00 PSF 7.0 FT 7.12 KIF	P 2.79 KIP 6.00 FT P 2.83 KIP 6.00 FT		0 PSF	7.12 KIP 2.79 KIP 6.00 FT		
		130 M	20 PSF 13.75 PSF 7.0 FT 7.12 KIF	P 2.87 KIP 6.25 FT P 2.91 KIP 6.75 FT	130 M	20 PSF 13.75 PSF 7.0 FT 7.0 FT 30 PSF 20.62 PSF 7.0 FT	7.12 KIP 2.87 KIP 6.25 FT 7.12 KIP 2.91 KIP 6.75 FT		
			40 PSF 27.49 PSF 7.0 FT 7.12 KIF 50 PSF 34.36 PSF 7.0 FT 7.12 KIF	P 2.95 KIP 7.00 FT P 2.99 KIP 7.25 FT		40 PSF 27.49 PSF 7.0 FT 50 PSF 34.36 PSF 7.0 FT	7.12 KIP 2.95 KIP 7.00 FT		
			60 PSF 41.42 PSF 7.0 FT 7.12 KIF			60 PSF 41.42 PSF 7.0 FT	 		
			ASCE 7-10 CROUND SLOPED TENSION	N SUEAD DRILLED SHAFT		ASCE 7-10 W/ SEISMIC	DDILLED SHAET		
		TILT WIN	ID GROUND BOOK MAY CRAN TENSION		TILT WIN		TENSION SHEAR DEPTH 2 FT DIAMETER X		
			0 PSF 0.00 PSF 15.0 FT 6.55 KIF			0 PSF	6.55 KIP 2.57 KIP 6.75 FT		
		110 M	20 PSF 13.75 PSF 13.0 FT 5.69 KIF /IPH 30 PSF 20.62 PSF 11.5 FT 5.03 KIF	P 2.24 KIP 7.25 FT	110 M	20 PSF 13.75 PSF 13.0 FT	5.69 KIP 2.24 KIP 7.25 FT		
			40 PSF 27.49 PSF 10.0 FT 4.37 KIF		11010	40 PSF 27.49 PSF 9.0 FT 50 PSF 34.36 PSF 8.0 FT	3.93 KIP 1.73 KIP 7.00 FT		
				P 1.60 KIP 7.25 FT		60 PSF 41.42 PSF 7.5 FT 0 PSF 0.00 PSF 14.5 FT	3.25 KIP 1.60 KIP 7.25 FT		
			10 PSF 6.87 PSF 14.0 FT 6.74 KIF 20 PSF 13.75 PSF 12.5 FT 6.02 KIF			10 PSF 6.87 PSF 14.0 FT 20 PSF 13.75 PSF 12.5 FT			
		115 M	/IPH	P 2.21 KIP 7.50 FT	115 M	PH 30 PSF 20.62 PSF 11.5 FT	5.54 KIP 2.21 KIP 7.50 FT		
			40 PSF 27.49 PSF 10.0 FT 4.82 KIF 50 PSF 34.36 PSF 8.5 FT 4.08 KIF 60 PSF 41.43 PSF 7.5 FT 3.59 KIE	P 1.84 KIP 7.50 FT		40 PSF 27.49 PSF 9.0 FT 50 PSF 34.36 PSF 8.0 FT	3.83 KIP 1.76 KIP 7.25 FT		
			0 PSF 0.00 PSF 11.5 FT 7.21 KIF	P 1.72 KIP 7.25 FT P 2.79 KIP 6.50 FT		60 PSF 41.42 PSF 7.5 FT 0 PSF 0.00 PSF 11.5 FT	7.21 KIP 2.79 KIP 6.50 FT		
			10 PSF 6.87 PSF 11.5 FT 7.21 KIF 20 PSF 13.75 PSF 11.5 FT 7.21 KIF	P 2.79 KIP 7.25 FT	400.1	10 PSF 6.87 PSF 11.5 FT 20 PSF 13.75 PSF 11.5 FT	7.21 KIP 2.79 KIP 7.25 FT		
		130 M	40 PSF 27.49 PSF 9.5 FT 5.95 KIF	P 2.43 KIP 7.75 FT	130 M	40 PSF 27.49 PSF 9.0 FT	5.63 KIP 2.33 KIP 7.50 FT		
		20°	50 PSF 34.36 PSF 8.0 FT 4.99 KIF 60 PSF 41.42 PSF 7.5 FT 4.66 KIF	P 2.11 KIP 7.50 FT	20°	50 PSF 34.36 PSF 8.0 FT 60 PSF 41.42 PSF 7.5 FT	4.66 KIP 2.11 KIP 7.50 FT		
			10 PSF 6.87 PSF 10.0 FT 7.33 KIF	P 2.83 KIP 6.50 FT		0 PSF	7.33 KIP 2.83 KIP 6.50 FT		
		140 1	20 PSF 13.75 PSF 10.0 FT 7.33 KIF 1PH 30 PSF 20.62 PSF 10.0 FT 7.33 KIF	P 2.85 KIP 7.50 FT	140 N		7.33 KIP 2.85 KIP 7.50 FT		
			<u> </u>	P 2.48 KIP 7.50 FT		40 PSF 27.49 PSF 9.0 FT 50 PSF 34.36 PSF 8.0 FT	5.84 KIP 2.48 KIP 7.50 FT		
			60 PSF 41.42 PSF 7.0 FT 5.07 KIF 0 PSF 0.00 PSF 8.5 FT 7.18 KIF	P 2.28 KIP 7.25 FT 6.25 FT		60 PSF 41.42 PSF 7.0 FT 0 PSF 0.00 PSF 8.5 FT	5.07 KIP 2.28 KIP 7.25 FT 7.18 KIP 2.77 KIP 6.25 FT		
			10 PSF 6.87 PSF 8.5 FT 7.18 KIF	P 2.77 KIP 6.25 FT P 2.82 KIP 6.75 FT		10 PSF 6.87 PSF 8.5 FT 20 PSF 13.75 PSF 8.5 FT	7.18 KIP 2.77 KIP 6.25 FT 7.18 KIP 2.82 KIP 6.75 FT		
		150 M	/IPH 30 PSF 20.62 PSF 8.5 FT 7.18 KIF	P 2.86 KIP 7.00 FT P 2.90 KIP 7.50 FT	150 N		7.18 KIP 2.86 KIP 7.00 FT		
			50 PSF 34.36 PSF 8.0 FT 6.75 KIF	P 2.81 KIP 7.75 FT P 2.57 KIP 7.50 FT		50 PSF 34.36 PSF 8.0 FT 60 PSF 41.42 PSF 7.0 FT	6.75 KIP 2.81 KIP 7.75 FT		
			0 PSF 0.00 PSF 7.5 FT 7.23 KIF	P 2.80 KIP 6.00 FT P 2.84 KIP 6.00 FT		0 PSF 0.00 PSF 7.5 FT 10 PSF 6.87 PSF 7.5 FT	7.23 KIP 2.80 KIP 6.00 FT		
		160 M	20 PSF 13.75 PSF 7.5 FT 7.23 KIF	P 2.88 KIP 6.50 FT P 2.92 KIP 6.75 FT	160 M	20 PSF 13.75 PSF 7.5 FT	7.23 KIP 2.88 KIP 6.50 FT		
			40 PSF 27.49 PSF 7.5 FT 7.23 KIF 50 PSF 34.36 PSF 7.5 FT 7.23 KIF	P 2.97 KIP 7.25 FT	100 10	40 PSF 27.49 PSF 7.5 FT 50 PSF 34.36 PSF 7.5 FT	7.23 KIP 2.97 KIP 7.25 FT		
			60 PSF 41.42 PSF 7.0 FT 6.72 KIE	P 2.89 KIP 7.50 FT		60 PSF 41.42 PSF 7.0 FT	6.72 KIP 2.89 KIP 7.50 FT		
		CONCRETE FOO	<u>FING NOTES:</u> DE BETWEEN BOTTOM OF POST TO THE BOTTOM OF CON-	CRETE FOOTING IS GREATER THAN 12", REINFORCEMENT IS	IS REQUIRED				
		IF EMBEDDED POST 3" CLEAR COVER IS	LENGTH EXCEEDS DEPTH OF CONCRETE FOOTING, POST	CRETE FOOTING IS GREATER THAN 12", REINFORCEMENT IS FCAN EITHER BE CUT TO LENGTH AS REQUIRED, OR DEPTH		BE INCREASED.			
N: CHECKED: REVIEWE			lient:		Standar	d FS 60 Cell - 20°	Project Site:	Drawing Number:	
7/29/2014	New Drawing Update Post Lengths and Embedments Update Foundation Embedment Depth		chletter Inc.	SCHLETTER			Schletter Inc.		
er 2/3/2015 er 2/11/2015	Update Foundation Embedment Depth Update Post Lengths & Girder Length		201 North Forbes Boulevard			Structure	1001 Commerce Center Dr	v.02	
			ucson, AZ 85745	3761 E. FARNUM PLACE TUCSON, AZ 85706 TEL: (520) 289 - 8700 FAX: (520) 289 - 8695	Design ⁻	ables	Shelby, NC 28150	V. U Z	
		· ·	· · ₁ · · · · · · · · · · · · · · · · · · ·					JOB NUMBER: v SCALE:	
				EMAIL: MAIL@SCHLETTER.US WWW.SCHLETTER.US		SUED BY: SCHLETTER INC. PRIETARY AND CONFIDENTIAL		SHEET: 3 of 3 SEE DRAWING VIEWS	