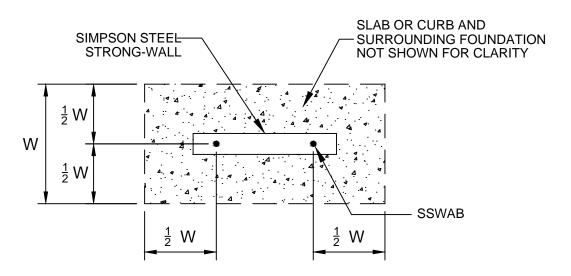
STEEL STRONG-WALL ANCHORAGE - TYPICAL SECTIONS



SEE TABLES BELOW FOR DIMENSIONS FOUNDATION PLAN VIEW

DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH	SSWAB 3/4" ANCHOR BOLT			SSWAB 1" ANCHOR BOLT		
			ASD ALLOWABLE UPLIFT (lbs)	W (in)	de (in)	ASD ALLOWABLE UPLIFT (lbs)	W (in)	de (in)
SEISMIC -		STANDARD	8,800	22	8	16,100	33	11
	CRACKED		9,600	24	8	17,100	35	12
	CRACKED	HIGH STRENGTH	18,500	36	12	33,000	51	17
			19,900	38	13	35,300	54	18
	UNCRACKED	STANDARD	8,800	19	7	15,700	28	10
			9,600	21	7	17,100	30	10
		HIGH STRENGTH	18,300	31	11	32,300	44	15
			19,900	33	11	35,300	47	16
		STANDARD	5,100	14	6	6,200	16	6
	CRACKED		7,400	18	6	11,400	24	8
			9,600	22	8	17,100	32	11
		HIGH STRENGTH	11,400	24	8	21,100	36	12
WIND -			13,600	27	9	27,300	42	14
			15,900	30	10	31,800	46	16
			19,900	35	12	35,300	50	17
	UNCRACKED	STANDARD	5,000	12	6	6,400	14	6
			7,800	16	6	12,500	22	8
			9,600	19	7	17,100	28	10
		HIGH STRENGTH	12,500	22	8	21,900	32	11
			14,300	24	8	26,400	36	12
			17,000	27	9	31,500	40	14
			19,900	30	10	35,300	43	15

- 1. ANCHORAGE DESIGNS CONFORM TO ACI 318-11 APPENDIX D WITH NO SUPPLEMENTARY REINFORCEMENT FOR CRACKED OR UNCRACKED CONCRETE AS NOTED.
- 2. ANCHOR STRENGTH INDICATES REQUIRED GRADE OF SSWAB ANCHOR BOLT. STANDARD (ASTM F1554 GRADE 36) OR
- HIGH STRENGTH (HS) (ASTM A449). 3. SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY
- USE WIND ANCHORAGE SOLUTIONS. SEISMIC ANCHORAGE DESIGNS CONFORM TO ACI 318-11 SECTION D.3.3.4.
- 4. WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C. 5. FOUNDATION DIMENSIONS ARE FOR ANCHORAGE ONLY. FOUNDATION DESIGN (SIZE AND REINFORCEMENT) BY OTHERS.
- THE REGISTERED DESIGN PROFESSIONAL MAY SPECIFY ALTERNATE EMBEDMENT, FOOTING SIZE OR ANCHOR BOLT. 6. REFER TO 1/SSW1 FOR de.

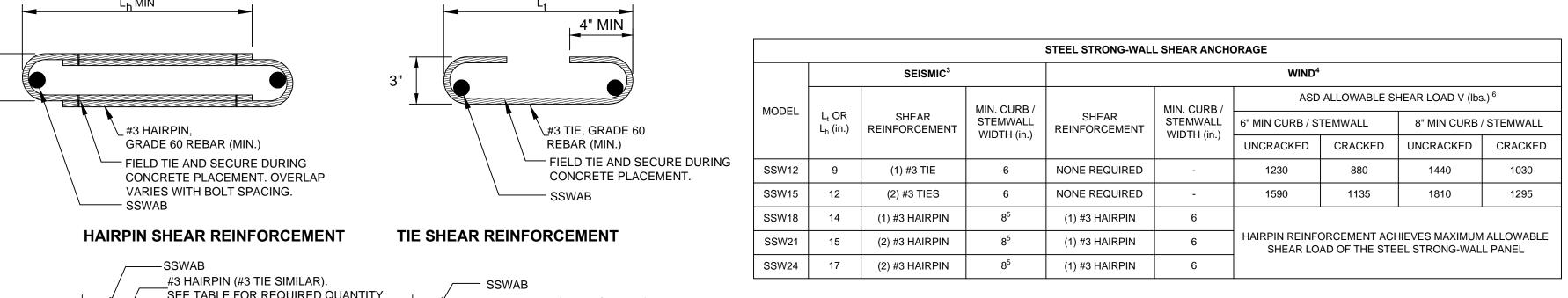
STEEL STRONG-WALL ANCHORAGE SOLUTIONS FOR 3500 PSI CONCRETE									
		ANCHOR STRENGTH	SSWAB 3/4" ANCHOR BOLT			SSWAB 1" ANCHOR BOLT			
DESIGN CRITERIA	CONCRETE CONDITION		ASD ALLOWABLE UPLIFT (lbs)	W (in)	de (in)	ASD ALLOWABLE UPLIFT (lbs)	W (in)	de (in)	
	CRACKED	STANDARD	9,000	20	7	15,700	29	10	
			9,600	21	7	17,100	31	11	
		HIGH STRENGTH	18,200	32	11	33,000	46	16	
SEISMIC			19,900	34	12	35,300	48	16	
SEISIVIIC	UNCRACKED	STANDARD	8,800	17	6	15,700	25	9	
			9,600	19	7	17,100	27	9	
		HIGH STRENGTH	18,600	28	10	32,600	40	14	
			19,900	30	10	35,300	42	14	
	CRACKED	STANDARD	6,000	14	6	7,300	16	6	
			7,300	16	6	13,500	24	8	
			9,600	20	7	17,100	29	10	
		HIGH STRENGTH	11,800	22	8	22,700	34	12	
			13,500	24	8	27,400	38	13	
			17,000	28	10	32,300	42	14	
MINID			19,900	32	11	35,300	45	15	
WIND	UNCRACKED	STANDARD	6,000	12	6	7,500	14	6	
			7,500	14	6	12,800	20	7	
			9,600	17	6	17,100	25	9	
		HIGH STRENGTH	12,800	20	7	21,300	28	10	
			14,800	22	8	26,000	32	11	
			16,900	24	8	31,300	36	12	
			19,900	27	9	35,300	39	13	

	CONCRETE CONDITION	ANCHOR STRENGTH	SSWAB 3/4" ANCHOR BOLT			SSWAB 1" ANCHOR BOLT		
DESIGN CRITERIA			ASD ALLOWABLE UPLIFT (lbs)	W (in)	de (in)	ASD ALLOWABLE UPLIFT (lbs)	W (in)	de (in
	CRACKED	STANDARD	8,700	18	6	16,000	27	9
			9,600	20	7	17,100	29	10
		HIGH STRENGTH	17,800	29	10	32,100	42	14
CEICMIC			19,900	32	11	35,300	45	15
SEISMIC	UNCRACKED	STANDARD	9,100	16	6	15,700	23	8
			9,600	17	6	17,100	25	9
		HIGH STRENGTH	17,800	25	9	32,500	37	13
			19,900	27	9	35,300	39	13
	CRACKED	STANDARD	5,400	12	6	6,800	14	6
			8,300	16	6	11,600	20	7
			9,600	18	6	17,100	26	9
		HIGH STRENGTH	11,600	20	7	21,400	30	10
			13,400	22	8	25,800	34	12
			17,300	26	9	31,000	38	13
WIND			19,900	29	10	35,300	42	14
	UNCRACKED	STANDARD	6,800	12	6	6,800	12	6
			8,500	14	6	12,400	18	6
			9,600	16	6	17,100	23	8
		HIGH STRENGTH	12,400	18	6	21,600	26	9
			14,500	20	7	26,700	30	10
			16,800	22	8	32,200	34	12
			19,900	25	9	35,300	36	12

ANCHORAGE DESIGNS CONFORM TO ACI 318-11 APPENDIX D WITH NO SUPPLEMENTARY REINFORCEMENT FOR CRACKED OR UNCRACKED CONCRETE AS NOTED.

- ANCHOR STRENGTH INDICATES REQUIRED GRADE OF SSWAB ANCHOR BOLT. STANDARD (ASTM FI554 GRADE 36) OR HIGH STRENGTH (HS) (ASTM A449). SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY USE WIND ANCHORAGE SOLUTIONS. SEISMIC ANCHORAGE DESIGNS CONFORM TO ACI 318-11 SECTION D.3.3.4.
- WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C.
- FOUNDATION DIMENSIONS ARE FOR ANCHORAGE ONLY. FOUNDATION DESIGN (SIZE AND REINFORCEMENT) BY OTHERS. THE REGISTERED DESIGN PROFESSIONAL MAY SPECIFY ALTERNATE EMBEDMENT, FOOTING SIZE OR ANCHOR BOLT. 6. SEE 1/SSW1 AND 2/SSW1 FOR W AND de





SEE TABLE FOR REQUIRED QUANTITY. - #3 HAIRPIN (#3 TIE SIMILAR). SEE TABLE FOR REQUIRED QUANTITY.

REGISTERED DESIGN PROFESSIONAL IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

1. SHEAR ANCHORAGE DESIGNS CONFORM TO ACI 318-11 AND ASSUME MINIMUM f'c=2,500 PSI CONCRETE. SEE DETAILS 1/SSW1 TO 3/SSW1 FOR TENSION ANCHORAGE.

2. SHEAR REINFORCEMENT IS NOT REQUIRED FOR PANELS INSTALLED ON A WOOD FLOOR, INTERIOR FOUNDATION APPLICATIONS (PANEL INSTALLED AWAY FROM EDGE OF CONCRETE), OR BRACED WALL PANEL APPLICATIONS. SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY

USE WIND ANCHORAGE SOLUTIONS.

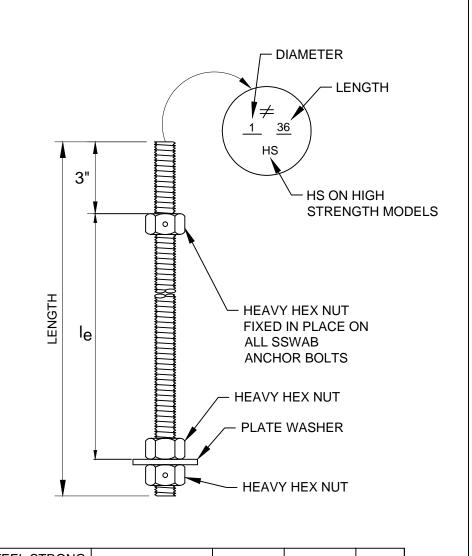
WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B. MINIMUM CURB/STEMWALL WIDTH IS 6" WHEN STANDARD STRENGTH SSWAB IS USED.

USE (1) #3 TIE FOR SSW12 AND SSW15 WHEN THE STEEL STRONG-WALL PANEL DESIGN SHEAR FORCE EXCEEDS THE TABULATED ANCHORAGE ALLOWABLE SHEAR LOAD.

7. CONCRETE EDGE DISTANCE FOR ANCHORS MUST COMPLY WITH ACI 318-11 D.8.2.

STEEL STRONG-WALL ANCHOR BOLT SHEAR ANCHORAGE

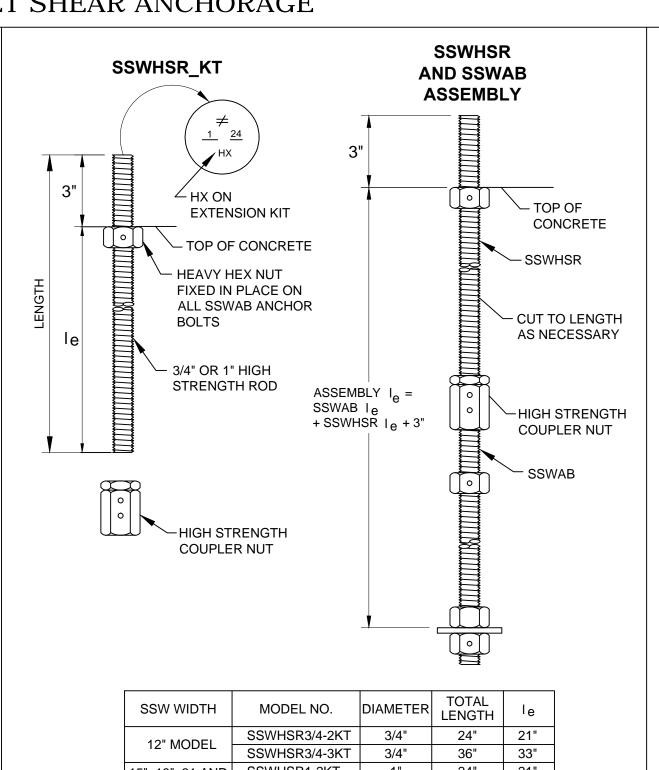
SECTION A-A

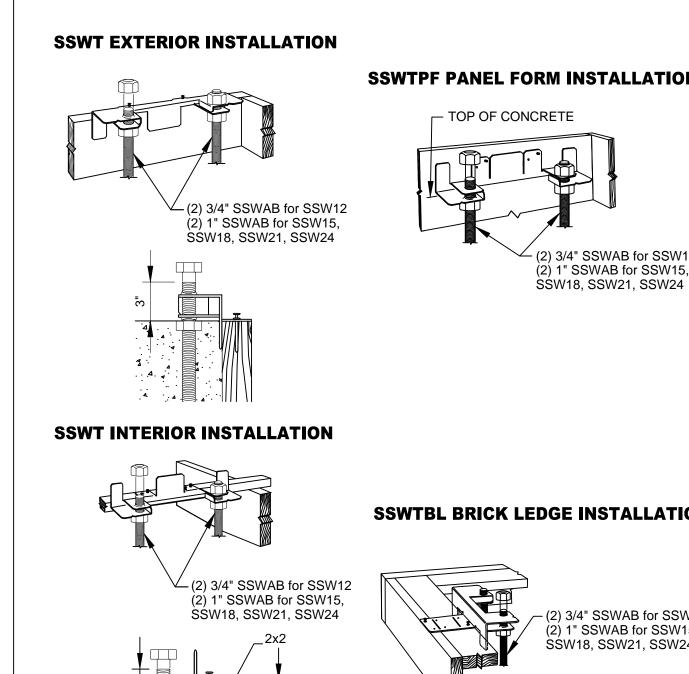


HAIRPIN INSTALLATION

(GARAGE CURB SHOWN. OTHER FOOTING TYPES SIMILAR.)

STEEL STRONG- WALL WIDTH	MODEL NO.	DIAMETER	LENGTH	Ιe
	SSWAB3/4x24	3/4"	24"	19"
	SSWAB3/4x24HS	3/4"	24"	19"
12" MODEL	SSWAB3/4x30	3/4"	30"	25"
	SSWAB3/4x30HS	3/4"	30"	25"
	SSWAB3/4x36HS	3/4"	36"	31"
	SSWAB1x24	1"	24"	19"
45" 40" 04 AND	SSWAB1x24HS	1"	24"	19"
15", 18", 21 AND 24" MODELS	SSWAB1x30	1"	30"	25"
Z+ WODELO	SSWAB1x30HS	1"	30"	25"
	SSWAB1x36HS	1"	36"	31"





TOP OF CONCRETE	ION
TOP OF CONCRETE TOP OF CONCRETE HEAVY HEX NUT FIXED IN PLACE ON TOP OF CONCRETE (2) 3/4" SSWAB for SSW12 (2) 3/4" SSWAB for SSW15, SSW18, SSW21, SSW24 (2) 3/4" SSWAB for SSW12 (2) 3/4" SSWAB for SSW15, SSW18, SSW21, SSW24	SW12
HEAVY HEX NUT FIXED IN PLACE ON ALL SSWAB ANCHOR BOLTS ASSEMBLY I _e = SSWAB I _e + SSWHSR I _e + 3" CUT TO LENGTH AS NECESSARY CUT TO LENGTH AS NECESSARY CUT TO LENGTH AS NECESSARY	'15, '24
SSWT INTERIOR INSTALLATION	
SSWTBL BRICK LEDGE INSTALLAT (2) 3/4" SSWAB for SSW12 (2) 1" SSWAB for SSW15, SSW18, SSW21, SSW24 (2) 3/4" SSWAB for S	SSW12
SSW WIDTH MODEL NO. DIAMETER TOTAL LENGTH Ie	W15, W24
12" MODEL SSWHSR3/4-2KT 3/4" 24" 21"	
SSWHSR3/4-3KT 3/4" 36" 33" 15", 18", 21 AND SSWHSR1-2KT 1" 24" 21" 24" MODELS SSWHSR1-3KT 1" 36" 33"	

SHEETS

4-16-2014

N.T.S.

SCALE

SHEET

JOB NO.

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COMPANY, INC.