

GRADE BEAM SECTION AWAY FROM ANCHOR REINFORCEMENT GRADE BEAM ELEVATION AT 12" AND 15" WALL MODELS

	SSW GRADE BEAM ANCHOR REINFORCEMENT									
STEEL STRONG-WALL WIDTH (in.)	ANCHOR MODEL NO.	ANCHOR DIAMETER (in.)	ANCHOR REINFORCEMENT FOR WIND AND SEISMIC 3,8,9		LRFD APPLIED DESIGN SEISMIC MOMENT (ftlbs.) 4,5,6,7					
			STANDARD STRENGTH SSWAB	HIGH STRENGTH (HS) SSWAB	STANDARD STRENGTH SSWAB	HIGH STRENGTH (HS) SSWAB				
12" MODEL	SSWAB3/4 SSWAB3/4HS	3/4	2- #4 CLOSED TIES PER (2) SSW1.1	5- #4 CLOSED TIES PER (SSW1.1)	16,000	23,000				
15" MODEL	SSWAB1 SSWAB1HS	1	4- #4 CLOSED TIES PER (2) SSW1.1	7- #4 CLOSED TIES PER SSW1.1	36,000	44,000				
18" MODEL			2- #4 CLOSED TIES PER (SSW1.1)	4- #4 CLOSED TIES PER (SSW1.1)	48,000	61,000				
21" MODEL					59,000	77,000				
24" MODEL					71,000	87,000				

SSW1.1

EQUAL SPACING

1. ANCHOR REINFORCEMENT CONFORMS TO ACI 318-11, SECTION D.5.2.9 AND PERFORMANCE WAS VALIDATED THROUGH FULL SCALE TESTING.

- 4. GRADE BEAM LONGITUDINAL AND TIE REINFORCEMENT SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL FOR FLEXURE AND SHEAR LOADING. DESIGN SHOULD CONSIDER PROJECT SPECIFIC
- DESIGN LOADS AND ALLOWABLE SOIL PRESSURE.
- PLASTIC HINGE FORMATION UNDER DEMANDS ASSOCIATED WITH ANCHORAGE FORCES CORRESPONDING TO ACI 318-11, SECTION D.3.3.4.3.
- SHEAR/0.7) x Ω o x SSW HEIGHT FOR GRADE BEAM DESIGN.
- 8. CLOSED TIE MAY BE SINGLE PIECE HOOP OR TWO PIECE ASSEMBLY WITH A U-STIRRUP WITH STANDARD 135 DEGREE HOOKS AND A TOP CROSS TIE CAP. SEE DETAIL 6/SSW1.1.

DIMENSIONING NOTES: H: HEIGHT OF ANCHOR BY REGISTERED DESIGN PROFESSIONAL

TOP CROSSTIE CAP

STANDARD 90 DEGREE

CONSECUTIVELY PLACED CROSSTIES MUST ALTERNATE

- U-STIRRUP

PLACEMENT OF 90 DEGREE HOOK

REINFORCEMENT ASSEMBLY

COMPANY,

10-27-2014 N.T.S. CHECKED **|SSW1.1** SHEETS

JOB NO.

DESIGN PROFESSIONAL (18" MIN).

DIMENSIONING NOTES: D: DEPTH BY REGISTERED

DESIGN PROFESSIONAL (24" MIN).

W: WIDTH BY REGISTERED

			SSW CDADE DEAM ANCHOD B	PEINEODCEMENT		
EL	ANCHOR	ANCHOR DIAMETER (in.)	ANCHOR REINFORCEMENT ANCHOR REINFORCEMENT FOR WIND AND SEISMIC 3,8,9		LRFD APPLIED DESIGN SEISMIC MOMENT (ftlbs.) 4,5,6,7	
G-WALL H (in.)	MODEL NO.		STANDARD STRENGTH SSWAB	HIGH STRENGTH (HS) SSWAB	STANDARD STRENGTH SSWAB	HIGH STRENGTH (HS) SSWAB
DDEL	SSWAB3/4 SSWAB3/4HS	3/4	2- #4 CLOSED TIES PER (2) SSW1.1	5- #4 CLOSED TIES PER (SSW1.1)	16,000	23,000
DDEL	SSWAB1 SSWAB1HS	1	4- #4 CLOSED TIES PER (2) SSW1.1	7- #4 CLOSED TIES PER (2) SSW1.1	36,000	44,000
DDEL			2- #4 CLOSED TIES PER (1) (SSW1.1)	4- #4 CLOSED TIES PER (1) (SSW1.1)	48,000	61,000
DDEL					59,000	77,000
DDEL					71,000	87,000

CLOSED TIE ANCHOR

REINFORCEMENT PER TABLE

2. MINIMUM CONCRETE COMPRESSIVE STRENGTH, f'c = 2500 psi.

- 3. CLOSED TIE ANCHOR REINFORCEMENT TO BE ASTM A615 GRADE 60 (MIN) #4 REBAR.
- 5. SIMPSON STRONG-TIE RECOMMENDS USING THE TABULATED MINIMUM LRFD APPLIED SEISMIC DESIGN MOMENT TO ENSURE GRADE BEAM DESIGN FLEXURE AND SHEAR STRENGTH IS ADEQUATE TO PREVENT
- 6. DESIGNER MAY USE REDUCED MOMENT DUE TO APPLIED SSW LATERAL LOAD. MINIMUM MOMENT SHALL BE THE LESSER OF THE TABULATED MOMENT OR THE AMPLIFIED LRFD DESIGN MOMENT FOR SEISMIC: (ASD
- 7. MINIMUM GRADE BEAM DESIGN MOMENT FOR WIND AND SEISMIC IN SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C: (ASD SHEAR/0.6) x SSW HEIGHT.
- 9. SEE DETAILS FOR GRADE BEAM ANCHOR REINFORCEMENT PLACEMENT, INSTALLATION AND SPACING REQUIREMENTS. CLOSED TIE ANCHOR REINFORCEMENT QUANTITY IS PER WALL FOR THE 12" AND 15" WALL MODELS, AND PER ANCHOR FOR THE 18", 21" AND 24" MODELS.