

CONC. f'c=3000 PSI						CONC. f'c=4000 PSI						CONC. f'c=5000 PSI						CONC. f'c=6000 PSI					
BAR SIZE	SPLICE		DEVELOPMENT			BAR SIZE	SPLICE		DEVELOPMENT			BAR SIZE	SPLICE		DEVELOPMENT			BAR SIZE	SPLICE		DEVELOPMENT		
	TOP	OTHER	TOP	OTHER	HOOKE		TOP	OTHER	TOP	OTHER	HOOKE		TOP	OTHER	TOP	OTHER	HOOKE		TOP	OTHER	TOP	OTHER	HOOKE
3	24	22	22	17	8	5	25	20	14	15	7	5	22	17	17	13	6	3	21	16	16	12	6
4	32	24	24	22	11	4	33	25	25	14	4	4	30	22	22	17	8	4	27	21	21	16	8
5	47	36	36	28	14	5	40	31	31	24	12	5	36	24	22	11	5	34	26	26	20	10	
6	56	43	43	33	16	6	48	38	37	24	14	6	44	34	34	26	13	6	40	31	31	24	12
7	62	63	48	14	7	70	55	54	42	17	7	64	44	44	38	15	7	51	44	45	34	14	
8	44	72	72	55	22	8	81	62	62	48	14	8	75	56	56	43	17	8	68	51	51	34	15
9	105	81	81	62	25	9	91	70	70	54	21	9	82	63	63	49	14	9	74	57	57	44	17
10	118	91	91	70	28	10	103	74	74	61	24	10	92	70	71	54	22	10	83	65	64	50	20
11	131	101	101	78	31	11	113	87	87	67	27	11	101	78	78	60	24	11	92	72	71	55	22

NOTES:

- SCHEDULE VALUES FOR DEVELOPMENT ARE BASED ON ACI 318, SECTION 25.4.2 AND 25.4.3 FOR GRADE 60 BARS.
- SCHEDULE VALUES FOR SPLICES ARE BASED ON ACI 318, SECTION 25.5.2 FOR CLASS B SPLICES
- CLEAR SPACING BETWEEN BARS BEING SPliced OR DEVELOPED SHALL BE 2 BAR DIAMETERS (MIN.)
- CONCRETE CLEAR COVER OVER BARS BEING DEVELOPED SHALL BE 1 BAR DIAMETER (MIN.)
- DEVELOPMENT AND SPLICE LENGTHS ARE GIVEN IN INCHES.

6. TOP BARS ARE STRAIGHT HORIZONTAL BARS LOCATED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS PLACED BELOW.

7. OTHER BARS ARE STRAIGHT HORIZONTAL BARS LOCATED SUCH THAT 12 INCHES OR LESS OF FRESH CONCRETE IS PLACED BELOW OR STRAIGHT VERTICAL BARS.

8. HOOKED BARS ARE VERTICAL OR HORIZONTAL BARS TERMINATING WITH STANDARD HOOKS THAT COMPLY WITH DETAIL 3.

REBAR SPLICE AND DEVELOPMENT IN NORMAL WEIGHT CONCRETE, U.O.N.
1200.01

ANCHOR SIZE	REBAR SIZE	EMBED DEPTH (UON)	MINIMUM CONC THICK, 'T' (UON)	MINIMUM EDGE DIST, 'E' (UON)	MINIMUM SPACING, 'S' (UON)
3/8" DIA.	#3	3"	4 1/4"	2 1/4"	4 1/2"
1/2" DIA.	#4	4"	5 1/4"	3"	6"
5/8" DIA.	#5	5"	6 1/4"	3 3/4"	7 1/2"
3/4" DIA.	#6	6"	7 1/2"	4 1/2"	9"
7/8" DIA.	#7	7"	8 3/4"	5 1/4"	10 1/2"
1" DIA.	#8	8"	10"	6"	12"
1 1/4" DIA.	#9	9"	11 1/4"	6 3/4"	13 1/2"
1 1/4" DIA.	#10	10"	12 1/2"	7 1/2"	15"

NOTES:

- SPECIAL INSPECTION IS REQ'D FOR INSTALLATION OF ANCHORS, U.O.N.
- ADHESIVE SHALL BE HILTI HIT-RE-500-SD (ICC ESR-2322)
- THREADED ROD ANCHORS SHALL BE ISO 884-1 CLASS 5.8, ASTM A193 B7 OR ASTM F593, CW STAINLESS
- REINF. STEEL ANCHORS SHALL BE ASTM A615 OR ASTM A706 GRADE 60
- HOLES SHALL BE DRILLED INTO DRY CONCRETE WITH A HAMMER DRILL AND CARBIDE BIT
- CONCRETE SHALL BE NORMAL WEIGHT, F'c SHALL BE 3000 PSI, MIN.

CONCRETE EDGE PERPENDICULAR TO DIRECTION OF LOAD

CONCRETE EDGE PARALLEL TO DIRECTION OF LOAD

WASHER SCHEDULE

BOLT	MALLEABLE IRON WASHER	HEAVY PLATE WASHER *	STANDARD CUT WASHER
1/2" DIA.	2 1/2" DIA. x 1/4"	2" x 2" x 5/16"	1 3/8" DIA. x 5/32"
5/8" DIA.	2 3/4" DIA. x 5/16"	2 1/2" x 2 1/2" x 1/4"	1 3/4" DIA. x 1/8"
3/4" DIA.	3" DIA. x 7/16"	2 3/4" x 2 3/4" x 5/16"	2" DIA. x 5/32"
7/8" DIA.	3 1/2" DIA. x 7/16"	3" x 3" x 5/16"	2 1/4" DIA. x 11/64"
1" DIA.	4" DIA. x 1/2"	3 1/2" x 3 1/2" x 3/8"	2 1/2" DIA. x 11/64"

* SIMPSON BP' BEARING PLATE

NOTE:

- USE STANDARD CUT WASHER FOR ALL BOLTS, U.O.
- HEAVY PLATE WASHERS ARE REQUIRED @ SILL PLATE TO FOUNDATION AT SHEATHED WALLS

TYP. WASHER SCHEDULE

180° HOOK

90° HOOK

OFFSET

NOTES:

- FOR #3 & SMALLER STD. HOOK, 'D' SHALL BE 6 x db
- FOR #4 & #5 STD. HOOK, 'D' SHALL BE 8 x db
- FOR #6 & #8 STD. HOOK, 'D' SHALL BE 10 x db

STANDARD HOOKS AND BENDS

180° HOOK

90° HOOK

135° HOOK

SEISMIC HOOKS (#5 AND SMALLER)

(N) CONC. F'c = 2500 PSI

W/ TYPE V CEMENT

SANICUT SLAB AS SHOWN

(E) 1" SAND

(E) 3" SAND

(N) 10 MIL VAPOR RETARDER PER BELOW

(E) 10 MIL VAPOR RETARDER

(N) TAPE/SEAL JOINTS PER BELOW

PIPE PER PLUMBING/ELECTRICAL PLANS

1/2" DIA. x 12" SHROUD ROD IN DRILLED HOLES @ 16" O.C.

THE VAPOR RETARDER SHALL BE PER ASTM E 1745 AND SHALL HAVE A PERMANENCE (WATER VAPOR TRANSMISSION RATE) OF LESS THAN 0.3 PERMS, AS DETERMINED BY ASTM E 96

ALL LAPS AND SEAMS SHALL BE OVERLAPPED 6" MIN. ALL JOINTS AND PENETRATIONS SHALL BE SEALED WITH THE MANUFACTURE'S RECOMMENDED ADHESIVE AND WITH PRESSURE SENSITIVE TAPE.

TYP. SLAB PATCH

SCHEDULE	
COL. SIZE	BASE PL. SIZE
H554X4	10"x1/2"xO'-1'-0"
H55X5	12"x5/8"xO'-1'-2"

COL. PER SCHEDULE

FOUR SLAB AFTER COL. IS ATTACHED TO BEAM ABOVE

#4 @ 16" O.C. EA. WAY

#4 DOWELS x 2'-0" LG. @ 16" O.C. MAX. AT EA. SIDE PER

(E) SLAB ON GRADE

BASE PL. PER SCHED

1/2" MIN. DRYPACK

(4)-3/4" DIA. ANCHOR BOLTS (A807)

PILE BEYOND WHERE OCCURS PER SCHEDULE

CHILDREN'S MINISTRY

LANCASTER BAPTIST CHURCH

4020 LANCASTER BLVD.

LANCASTER, CALIFORNIA

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EXP. 6/30/19

STATE OF CALIFORNIA

SIGNED: 11/29/2021

JOB NO.: 181257

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SHEET TITLE:

TYPICAL DETAILS

SUB DATE

BID DATE

DATE: 05/08/19

DRAWN BY: AC

JOB NO: 181257

CHECKED BY: CMH

SHEET NUMBER: S1.1