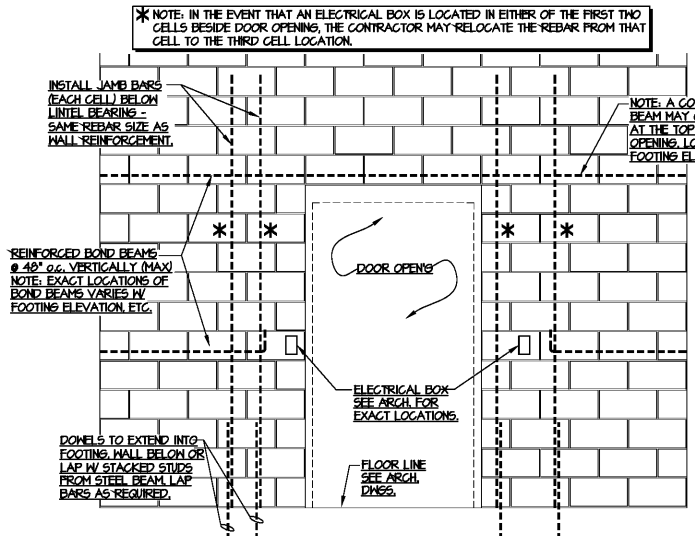
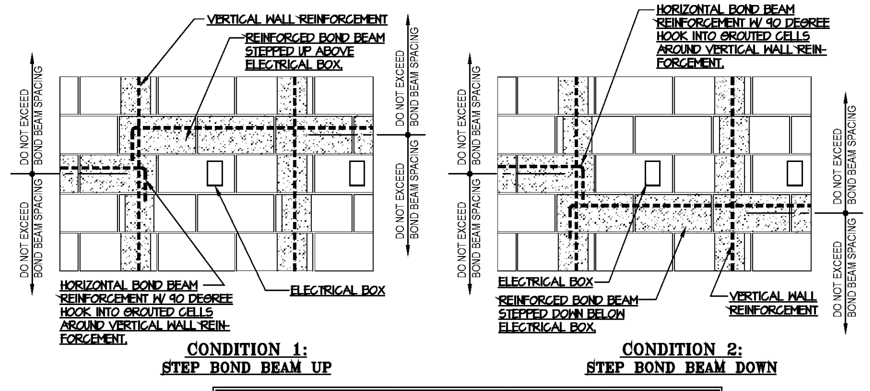


TYPICAL BOND BEAM TERMINATION @ DOOR OPENINGS W/ ELECTRICAL BOX

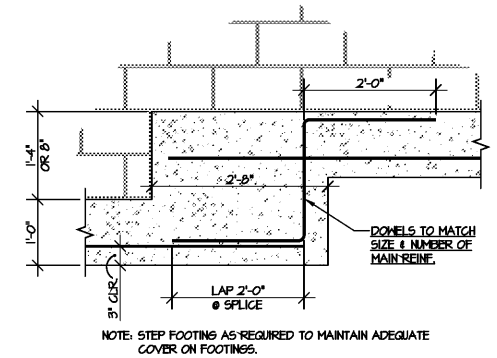
NO SCALE



NOTE: TO AVOID STEPPED BOND BEAMS, THE CONTRACTOR MAY SET BOND BEAM ELEVATIONS CLOSER TOGETHER TO MISS ELECTRICAL AND PLUMBING BOXES. HOWEVER, IN NO CASE, SHALL THE BOND BEAM SPACING EXCEED THE MAXIMUM VERTICAL SPACING AS NOTED IN THE STRUCTURAL DRAWINGS.

TYPICAL STEPPED BOND BEAM @ ELECTRICAL BOX

NO SCALE

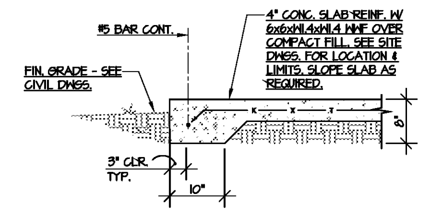


TYPICAL STEP FOOTING DETAIL

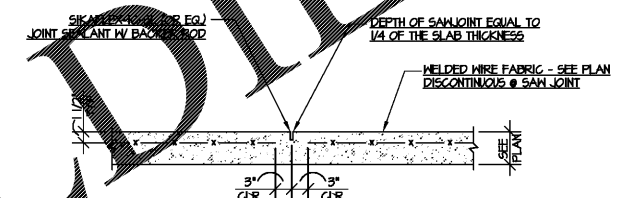
REBAR LAP SPLICES IN REINFORCED MASONRY	
BAR SIZE	REQUIRED LAP
#4 BAR	24" LAP
#5 BAR	30" LAP
#6 BAR	48" LAP
#7 BAR	60" LAP
#8 BAR	90" LAP

MINIMUM CONCRETE COVER

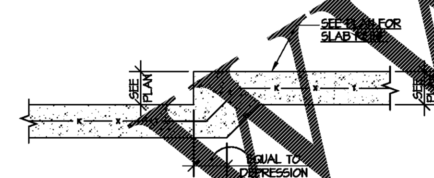
A. CONCRETE CAST AGAINST EARTH:	
1. ALL BARS	3" COVER
B. CONCRETE EXPOSED TO EARTH OR WEATHER	
1. #6 THROUGH #18 BARS	2" COVER
2. #5 BAR AND SMALLER	1-1/2" COVER
C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER	
1. SLABS & WALLS #14 AND #18 BARS	1-1/2" COVER
2. SLABS & WALLS #11 BAR AND SMALLER	3/4" COVER
3. BEAMS & COLUMNS (ALL REINFORCEMENT)	1-1/2" COVER



TYPICAL SIDEWALK DETAIL



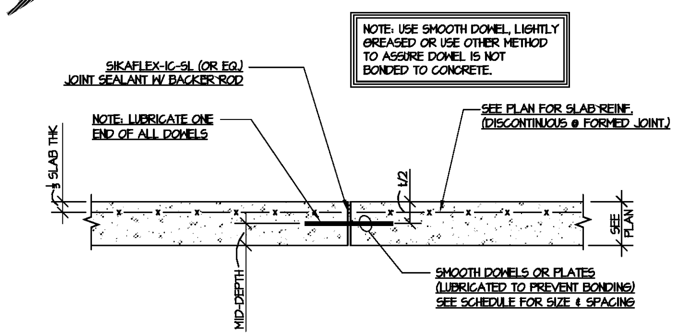
TYPICAL SAW JOINT DETAIL



TYPICAL RECESSED SLAB DETAIL

NOTE: MAINTAIN SLAB THICKNESS AT RECESSED SLABS.

NOTE: USE SMOOTH DOWEL, LIGHTLY GREASED OR USE OTHER METHOD TO ASSURE DOWEL IS NOT BONDED TO CONCRETE.



TYPICAL CONTROL JOINT DETAIL

Table 3.1—Dowel size and spacing for round, square, and rectangular dowels (ACI Committee 325 1956)

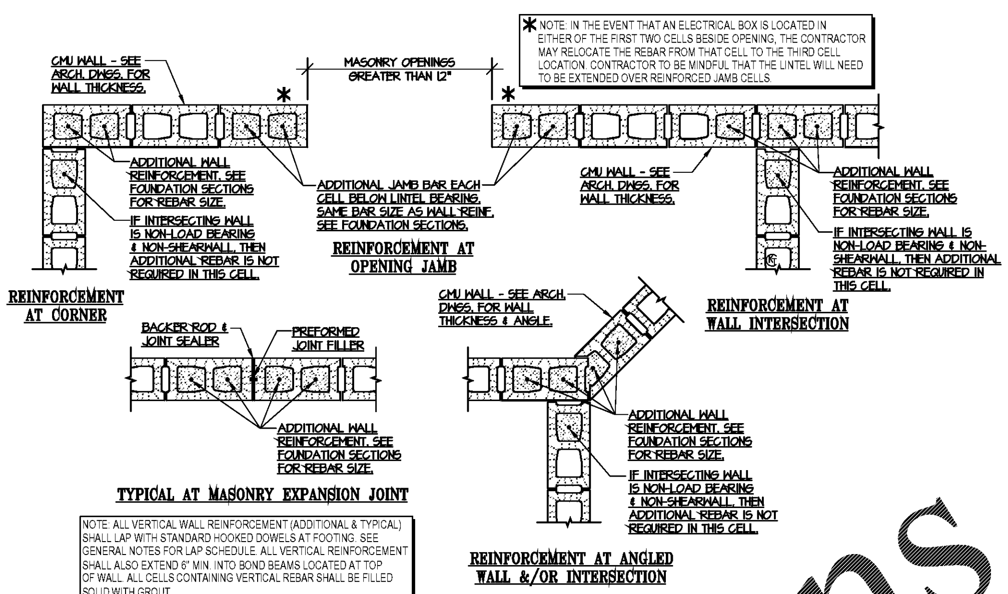
Slab depth, in. (mm)	Dowel dimensions*, in. (mm)			Dowel spacing center-to-center, in. (mm)		
	Round	Square	Rectangular†	Round	Square	Rectangular
5 to 6 (125 to 150)	3/4 x 14 (19 x 350)	3/4 x 14 (19 x 350)	3/8 x 2 x 12 (10 x 50 x 300)	12 (300)	14 (350)	19 (475)
7 to 8 (175 to 200)	1 x 16 (25 x 400)	1 x 16 (25 x 400)	1/2 x 2-1/2 x 12 (12 x 60 x 300)	12 (300)	14 (350)	18 (450)
9 to 11 (225 to 275)	1-1/4 x 18 (30 x 450)	1-1/4 x 18 (30 x 450)	3/4 x 2-1/2 x 12 (19 x 60 x 300)	12 (300)	12 (300)	18 (450)

*Total dowel length includes allowance made for joint opening and minor errors in positioning dowels.
†Rectangular plates are typically used in contraction joints.
Notes: Table values based on a maximum joint opening of 0.20 in. (5 mm). Dowels must be carefully aligned and supported during concrete operations. Misaligned dowels cause cracking.

Table 3.2—Dowel size and spacing for diamond-shaped load plates

Slab depth, in. (mm)	Diamond load plate dimensions, in. (mm)	Diamond load plate spacing center-to-center, in. (mm)
5 to 6 (125 to 150)	1/4 x 4-1/2 x 4-1/2 (6 x 115 x 115)	18 (450)
7 to 8 (175 to 200)	3/8 x 4-1/2 x 4-1/2 (10 x 115 x 115)	18 (450)
9 to 11 (225 to 275)	3/4 x 4-1/2 x 4-1/2 (19 x 115 x 115)	20 (500)

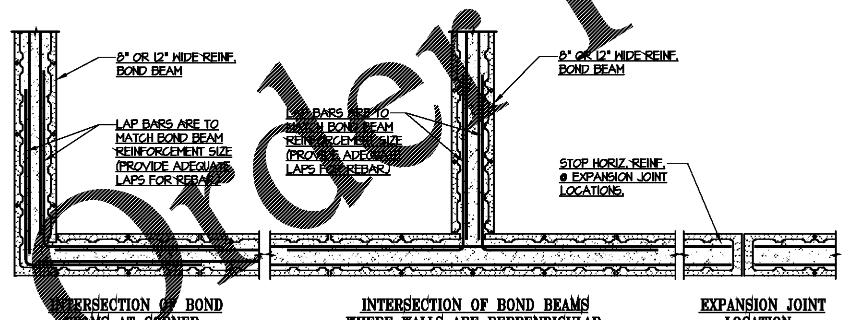
Notes: Table values based on a maximum joint opening of 0.20 in. (5 mm). The construction tolerances required make it impractical to use diamond-shaped load plates in contraction joints.



NOTE: ALL VERTICAL WALL REINFORCEMENT (ADDITIONAL & TYPICAL) SHALL LAP WITH STANDARD HOOKED DOWELS AT FOOTING. SEE GENERAL NOTES FOR LAP SCHEDULE. ALL VERTICAL REINFORCEMENT SHALL ALSO EXTEND 6" MIN. INTO BOND BEAMS LOCATED AT TOP OF WALL. ALL CELLS CONTAINING VERTICAL REBAR SHALL BE FILLED SOLID WITH GROUT

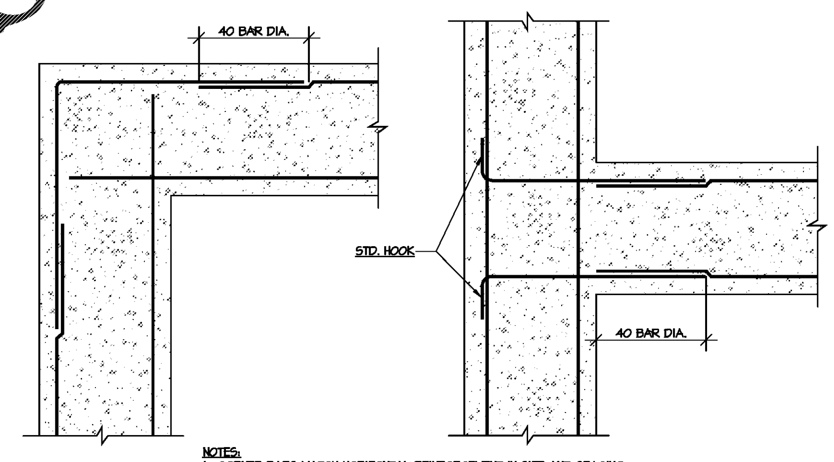
ADDITIONAL REINFORCEMENT DETAILS FOR MASONRY WALLS

NO SCALE



TYPICAL BOND BEAM INTERSECTION DETAILS

NO SCALE



NOTES:
1. CORNER BARS MATCH HORIZONTAL REINFORCEMENT IN SIZE AND SPACING.

TYPICAL REINFORCEMENT DETAIL OF CORNERS AND INTERSECTIONS @ WALL FOOTING

Georgetown County Regional Parks
Andrews Recreation Center

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Structural Consultant:
Weatherly

Irrigation Consultant:

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER ASHLEIGH BRYAN WEATHERLY No. 15317 03/14/18

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION WEATHERLY ENGINEERING LLC MYRTLE BEACH, SC No. 5538

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS

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Checked by:	DWS

Notes:
BIDDING DOCUMENTS

Revisions:

Foundation Sections & Details

S300