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Order Plans

BASIC DEVELOPMENT LENGTH AND SPLICE LENGTH FOR BARS IN COMPRESSION
 $f_y = 60,000 \text{ psi}$ $f_c = 3000 \text{ psi}$

BASIC DEVELOPMENT LENGTH		BAR SIZE	SPLICE LENGTH	
BASIC	CONFINEMENT*		BASIC	CONFINEMENT*
11"		#4	1'-3"	12"
14"		#5	1'-7"	14"
1'-5"		#6	1'-11"	1'-5"

* BAR ENCLOSED WITHIN SPIRALS OF NOT LESS THAN 1/4 INCH DIAMETER AND NOT MORE THAN 4 INCH PITCH OR WITHIN #4 TIES IN CONFORMANCE WITH ACI 318, SECTION 7.10.5 AT NOT MORE THAN 4 INCHES OF CENTER, FACTOR 0.75 USED.

BASIC DEVELOPMENT LENGTH AND SPLICE LENGTH FOR BARS IN COMPRESSION
 $f_y = 60,000 \text{ psi}$ $f_c = 4000 \text{ psi}$

BASIC DEVELOPMENT LENGTH		BAR SIZE	SPLICE LENGTH	
BASIC	CONFINEMENT*		BASIC	CONFINEMENT*
10"		#4	1'-3"	12"
1'-0"		#5	1'-7"	1'-3"
1'-3"		#6	1'-11"	1'-6"

* BAR ENCLOSED WITHIN SPIRALS OF NOT LESS THAN 1/4 INCH DIAMETER AND NOT MORE THAN 4 INCH PITCH OR WITHIN #4 TIES IN CONFORMANCE WITH ACI 318, SECTION 7.10.5 AT NOT MORE THAN 4 INCHES OF CENTER, FACTOR 0.75 USED.

BASIC DEVELOPMENT LENGTH AND SPLICE LENGTH FOR BARS IN TENSION

** BASED ON MATERIALS AND CONDITIONS AS FOLLOWS:
 $f_y = 60,000 \text{ psi}$ UNCOATED BARS CLEAR COVER ≥ 1.5 INCHES
 $f_c = 3000 \text{ psi}$ NORMAL WEIGHT CONCRETE

BASIC DEVELOPMENT LENGTH				BAR SIZE	CLASS B SPLICE LENGTH			
CLEAR SPACING $\geq 3'$		CLEAR SPACING $< 3'$			CLEAR SPACING $\geq 3'$		CLEAR SPACING $< 3'$	
BASE	TOP*	BASE	TOP*	BASE	TOP*	BASE	TOP*	
1'-10"	2'-5"	2'-9"	3'-7"	#4	2'-5"	3'-1"	3'-7"	4'-8"
2'-4"	3'-0"	3'-5"	4'-6"	#5	3'-0"	3'-11"	4'-6"	5'-10"
2'-9"	3'-7"	4'-2"	5'-4"	#6	3'-7"	4'-5"	5'-4"	7'-0"

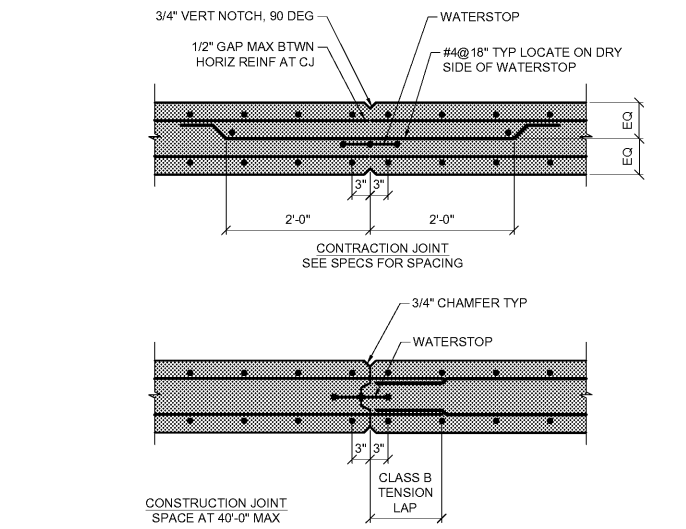
* TOP REINFORCEMENT IS HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW REINFORCEMENT.
 ** FOR MATERIALS OR CONDITIONS DIFFERENT FROM THOSE STATED, LENGTHS SHOWN IN CHART SHALL BE MODIFIED TO CONFORM TO THE PROVISIONS OF ACI 318, SECTION 12.2.

BASIC DEVELOPMENT LENGTH AND SPLICE LENGTH FOR BARS IN TENSION

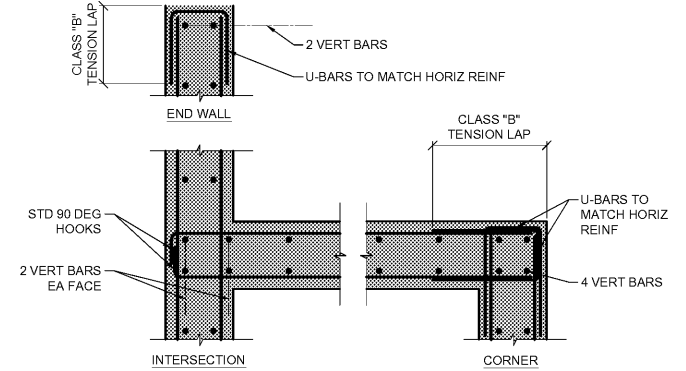
** BASED ON MATERIALS AND CONDITIONS AS FOLLOWS:
 $f_y = 60,000 \text{ psi}$ UNCOATED BARS CLEAR COVER ≥ 1.5 INCHES
 $f_c = 4000 \text{ psi}$ OR GREATER NORMAL WEIGHT CONCRETE

BASIC DEVELOPMENT LENGTH				BAR SIZE	CLASS B SPLICE LENGTH			
CLEAR SPACING $\geq 3'$		CLEAR SPACING $< 3'$			CLEAR SPACING $\geq 3'$		CLEAR SPACING $< 3'$	
BASE	TOP*	BASE	TOP*	BASE	TOP*	BASE	TOP*	
1'-7"	2'-1"	2'-3"	3'-2"	#4	2'-1"	2'-9"	3'-0"	4'-2"
2'-4"	3'-0"	3'-6"	4'-6"	#5	3'-0"	3'-11"	4'-6"	5'-10"
3'-1"	4'-0"	4'-8"	6'-0"	#6	4'-0"	5'-3"	6'-1"	7'-10"
4'-6"	5'-10"	6'-9"	8'-9"	#7	5'-10"	7'-7"	8'-9"	11'-4"

* TOP REINFORCEMENT IS HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW REINFORCEMENT.
 ** FOR MATERIALS OR CONDITIONS DIFFERENT FROM THOSE STATED, LENGTHS SHOWN IN CHART SHALL BE MODIFIED TO CONFORM TO THE PROVISIONS OF ACI 318, SECTION 12.2.



2 TYPICAL CONCRETE WALL AT JOINTS (DOUBLE LAYER)
 3/4" = 1'-0"



1 TYPICAL REINFORCING AT CONCRETE WALL INTERSECTIONS (DOUBLE LAYER)
 3/4" = 1'-0"

**LORD
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RETAINING WALL DETAILS
 SHEET TITLE
 SCALE AS SHOWN

OWNER: GWINNETT COUNTY
 LOCATION: ELISHA WINN HOUSE
 908 DACULA RD DACULA, GEORGIA 30019

FORESITE
group

Foresite Group, Inc.
 3740 Davinci Court,
 Suite 100
 Peachtree Corners, GA 30092
 www.fg-inc.net
 770.368.1399
 770.368.1944

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 DWG NO: S132

7 TYPICAL SPLICE LENGTHS
 NO SCALE