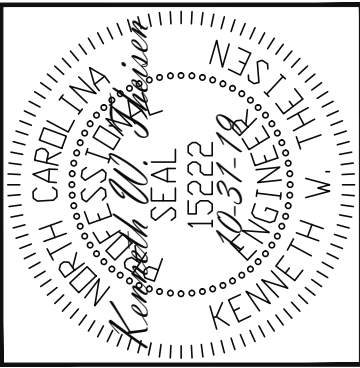
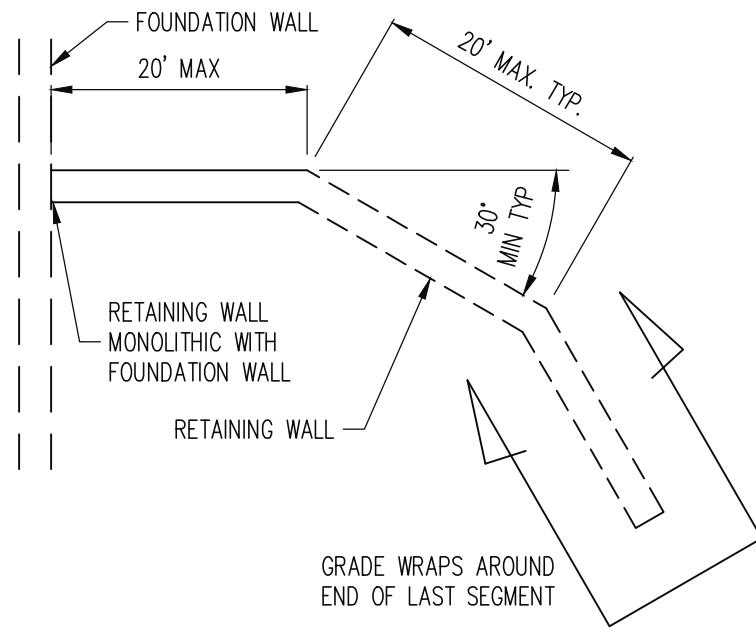


- NOTES:
- REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60
  - CONCRETE SHALL BE 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI
  - LAP REBAR 18" MIN AT ALL SPLICES
  - RETURN HORIZONTAL REBAR 18" MIN AT ALL CORNERS AND INTERSECTIONS.
  - SOIL PARAMETERS:  
 FRICTION ANGLE = 28°  
 COEFFICIENT OF FRICTION = 0.35  
 DENSITY = 120 PCF MOIST WEIGHT  
 BEARING CAPACITY = 2000 PSF MIN.
  - DESIGN IS ONLY FOR LEVEL BACKFILL
  - DESIGN IS ONLY FOR ATTACHED RETAINING WALLS POURED MONOLITHICALLY WITH AND AT ANY ANGLE WITH THE FOUNDATION WALL. THE LENGTH OF INDIVIDUAL RETAINING WALL SEGMENTS SHALL NOT EXCEED 20'. THE MINIMUM EXTERIOR ANGLE BETWEEN RETAINING WALL SEGMENTS SHALL NOT BE LESS THAN 30°. THERE SHALL BE A MAXIMUM OF (3) SEGMENTS.

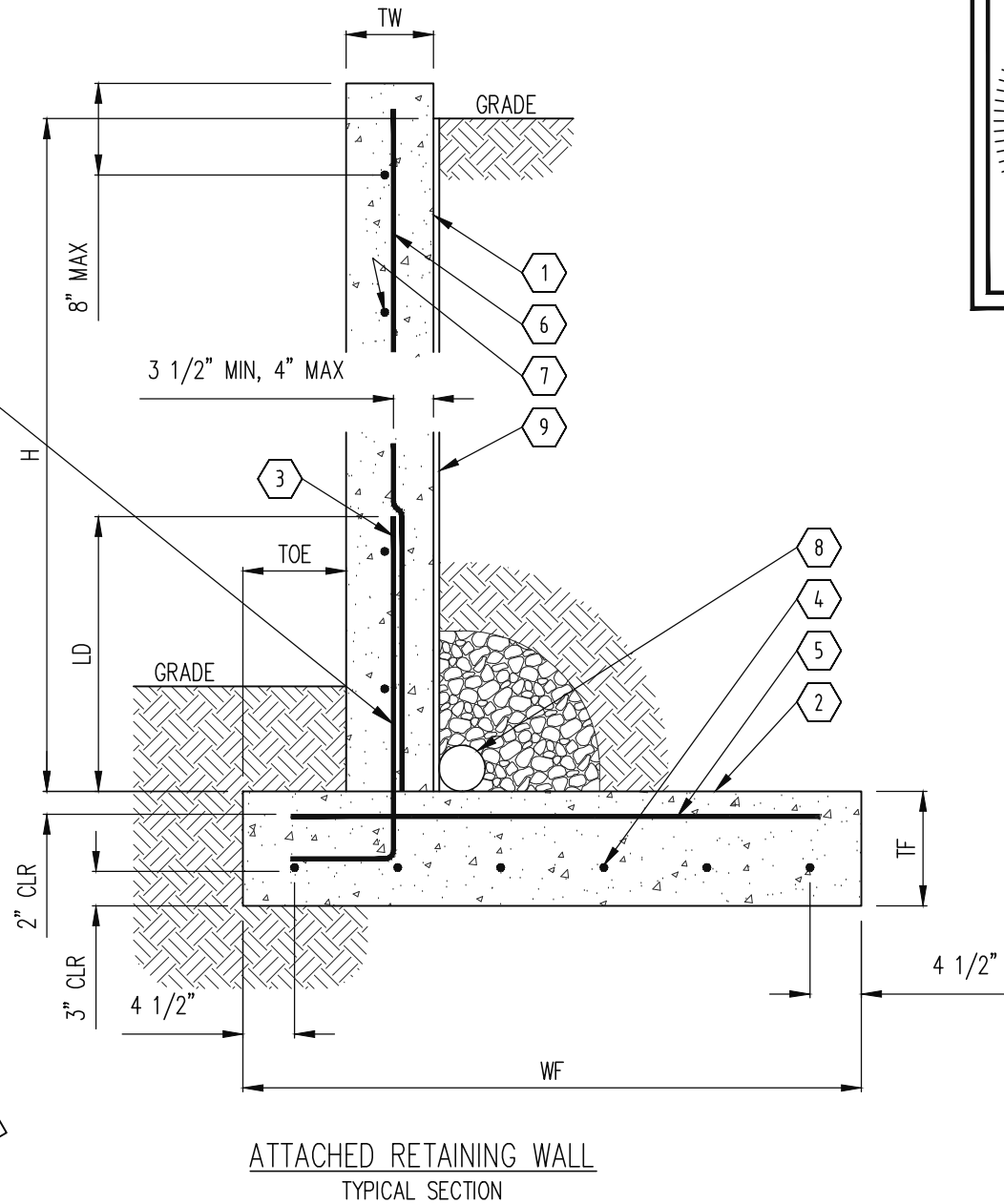


DO NOT BEND DOWELS ANYWHERE ABOVE SURFACE OF FOOTING

- NOTES:
- MAXIMUM WALL SEGMENT LENGTH = 20'
  - MINIMUM (1) WALL SEGMENT, MAXIMUM (3) SEGMENTS



ATTACHED RETAINING WALL  
TYPICAL GENERIC PLAN



ATTACHED RETAINING WALL  
TYPICAL SECTION

**SCHEDULE**

RETAINING WALL

- POURED CONCRETE RETAINING WALL
- CIP CONCRETE FOOTING
- DOWEL
- #4 LONGITUDINAL FOOTING REINFORCEMENT @ 9" MAX O.C.
- LATERAL FOOTING REINFORCEMENT
- VERTICAL WALL REINFORCEMENT
- #4 HORIZONTAL WALL REINFORCEMENT @ 8" MAX O.C.
- 4" DRAIN TILE WITH 12" MIN #67 STONE, FILTER FABRIC
- DRAIN BOARD & WATERPROOFING MEMBRANE

NOTES:

FOOTING AND REINFORCEMENT TABLE

		REINFORCEMENT									
		REINFORCEMENT SIZE AND SPACING C-C									
		FOOTING		3		5		6			
TW	H	WF	TF	TOE	LD	ITEM NO.		ITEM NO.		ITEM NO.	
						SIZE	SPACE	SIZE	SPACE	SIZE	SPACE
7 5/8" MIN	UP TO 4'	2'-3"	10"	9"	1'-6"	#4	18"	-	-	#4	18"
	4'+ TO 6'-0"	3'-0"	10"	9"	1'-6"	#4	18"	-	-	#4	18"
	6'+ TO 8'	3'-9"	10"	9"	2'-0"	#4	18"	#4	18"	#4	18"
	8'+ TO 10'	4'-6"	11"	9"	2'-6"	#4	12"	#4	12"	#4	18"

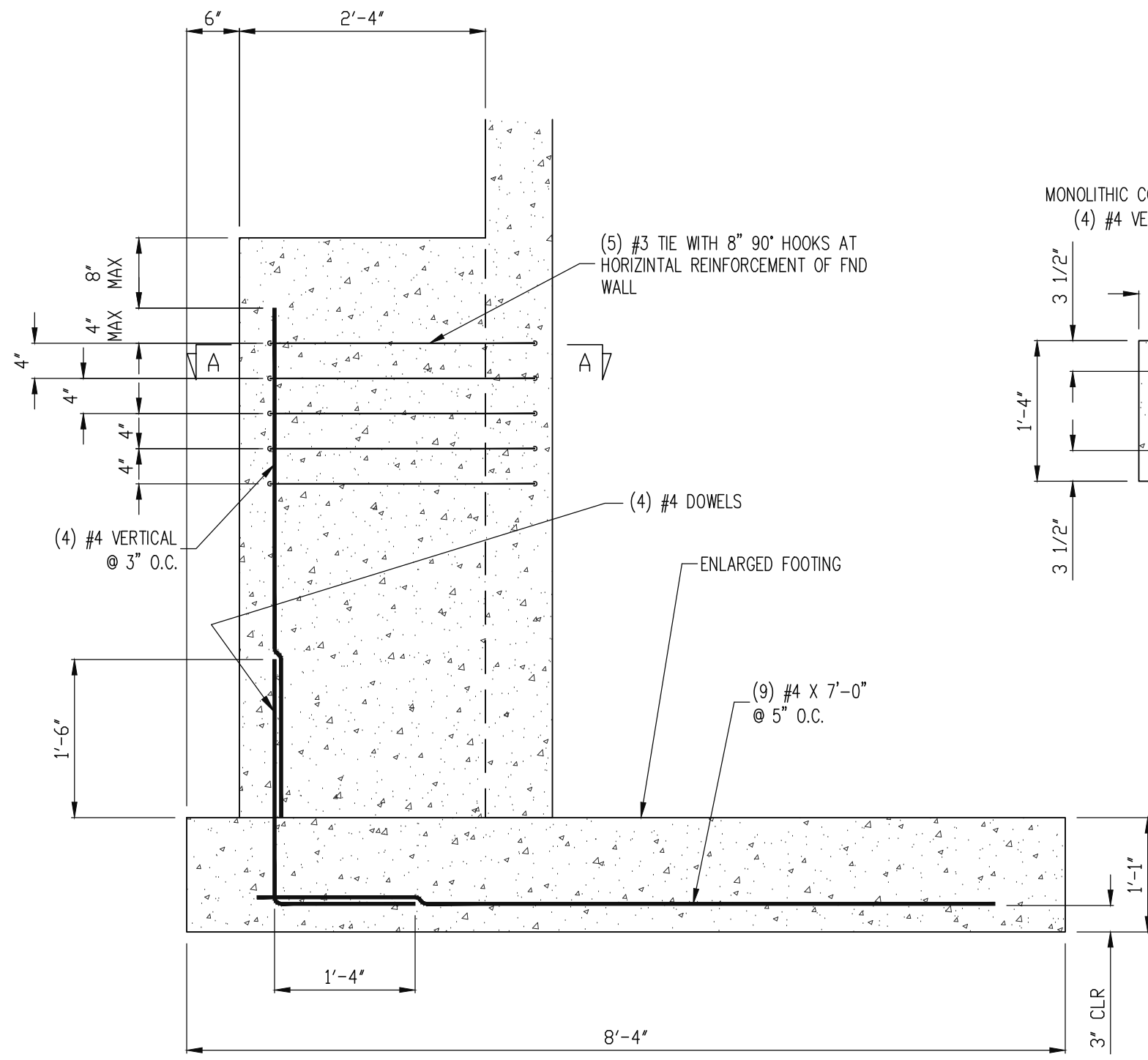
STRUCTURAL ENGINEERS  
 License No. C-3870  
 183 Wind Chime Ct, Ste 100  
 Raleigh, North Carolina 27615  
 Phone (919) 844-1661

CAPITAL CITY FOUNDATIONS  
 CONCRETE WALL DESIGN  
 SCOPE  
 LOC: FAIRWAY POINT AT ANDERSON  
 CREEK CLUB, GALLERY DR BLDG 17

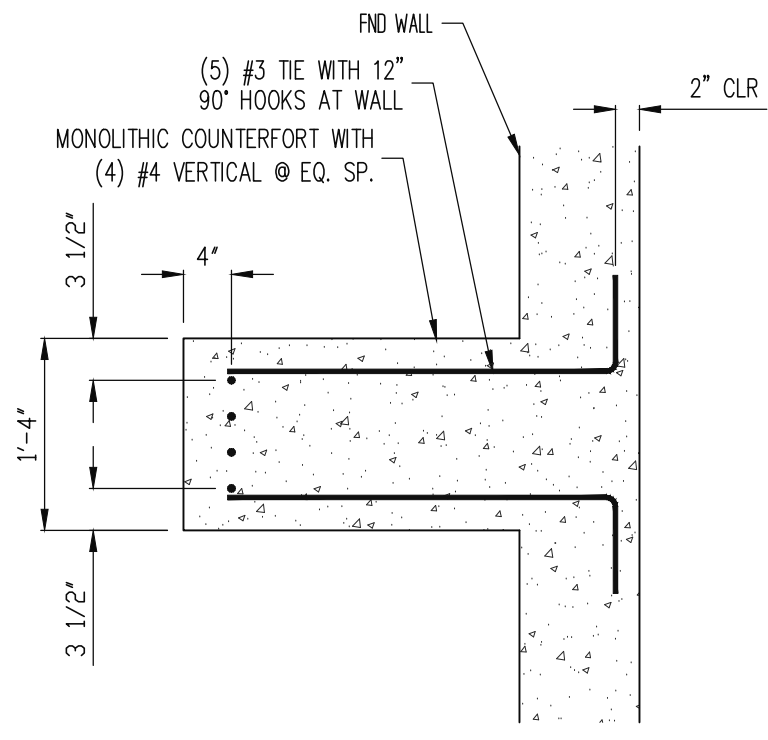
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PROJECT NO.  
 19-36-016

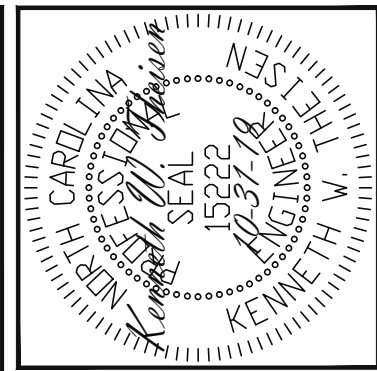
SHEET NO.  
 S1  
 1 of 4



1 SECTION  
COUNTERFORT  
3/4" = 1'-0"



SECTION A-A



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**Engineering Lech**  
ASSOCIATES, P.A.

CAPITAL CITY FOUNDATIONS
CONCRETE WALL DESIGN
SCOPE: FAIRWAY POINT AT ANDERSON
CREEK CLUB, GALLERY DR BLDG 17

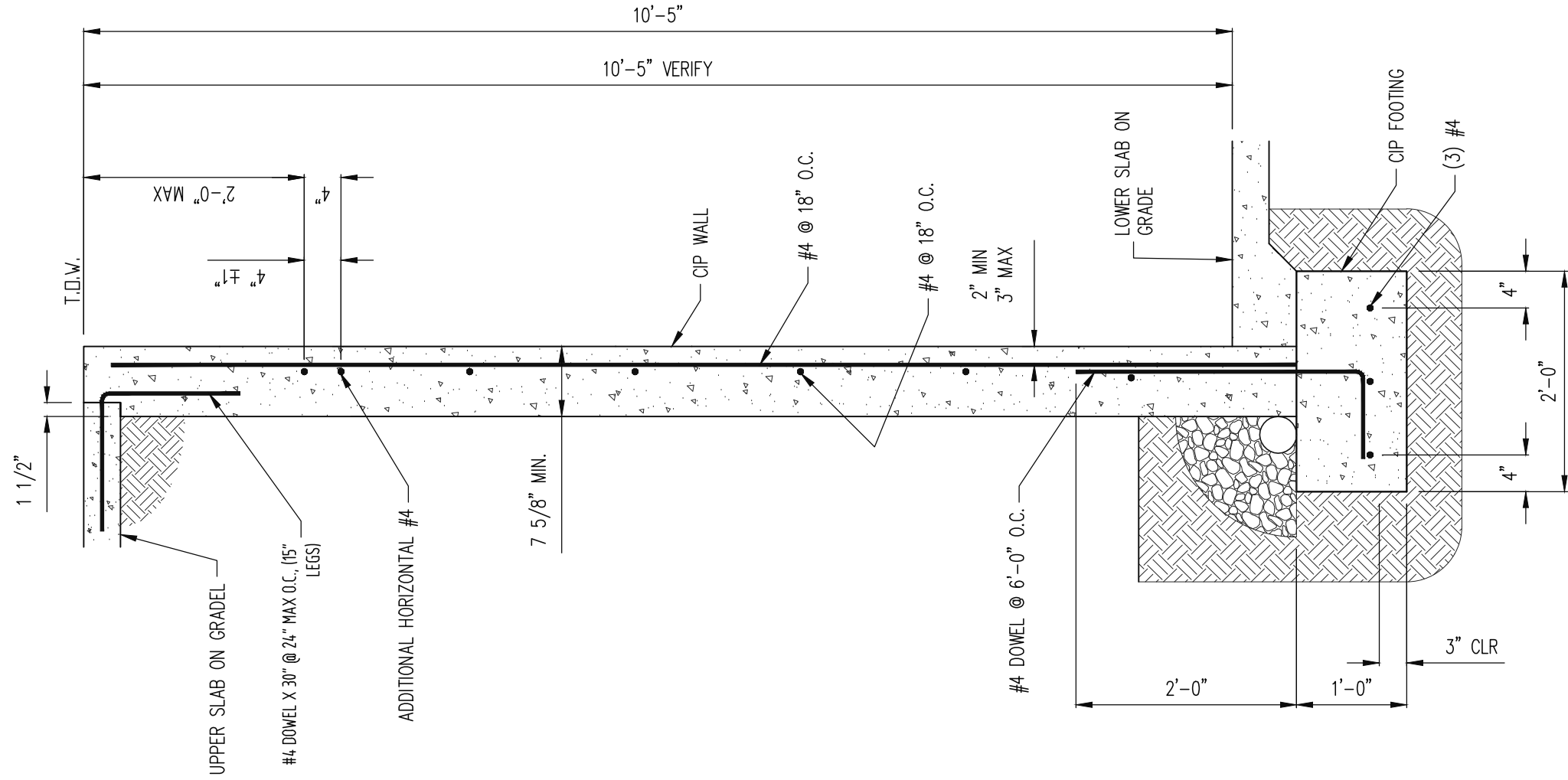
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PROJECT NO. 19-36-016
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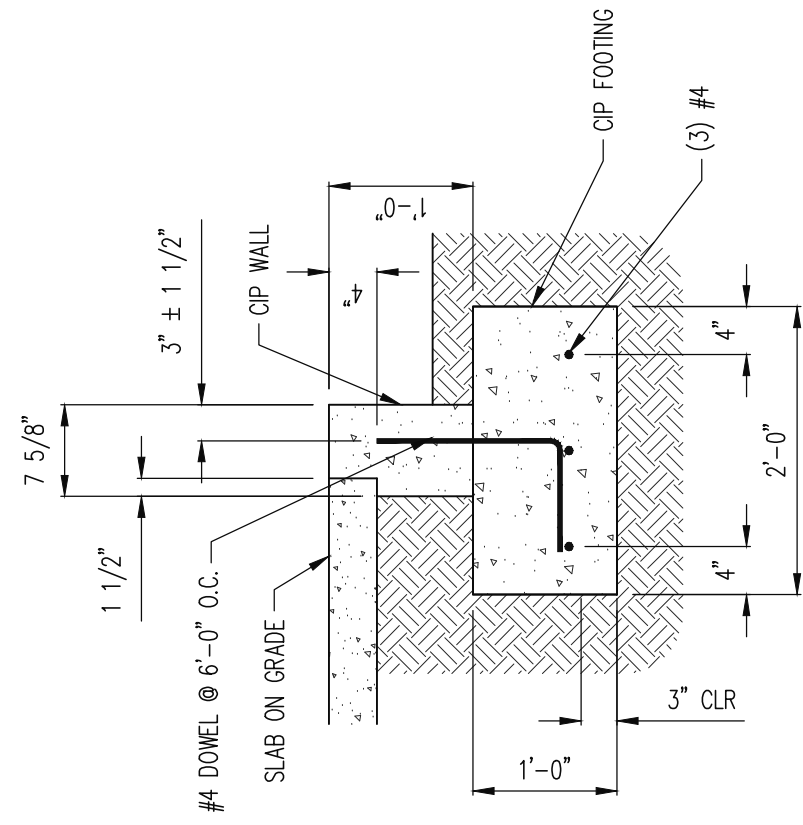
SHEET NO. S2
2 of 4

FOUNDATION WALL NOTES:

- REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60
- CONCRETE SHALL BE 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI
- LAP REBAR 20" MIN AT ALL SPLICES.
- RETURN HORIZONTAL REBAR 20" MIN AT ALL CORNERS AND INTERSECTIONS.
- DESIGN IS FOR SEISMIC DESIGN CATEGORY A, B OR C, SOIL GROUP III



FOUNDATION WALL BETWEEN  
UPPER AND LOWER LEVEL  
TYPICAL REINFORCEMENT



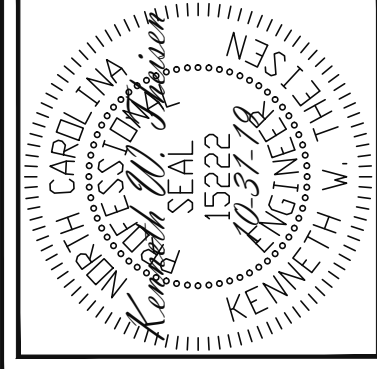
PERMETER FOUNDATION  
LOWER AT WALK OUT AREAS  
TYPICAL REINFORCEMENT

CAPITAL CITY FOUNDATIONS	
SCOPE	CONCRETE WALL DESIGN
LOC	FAIRWAY POINT AT ANDERSON
	CREEK CLUB, GALLERY DR BLDG 17

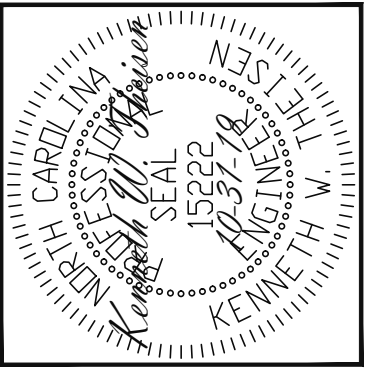
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DATE	10-31-19

PROJECT NO.	19-36-016
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SHEET NO.	S3
	3 of 4

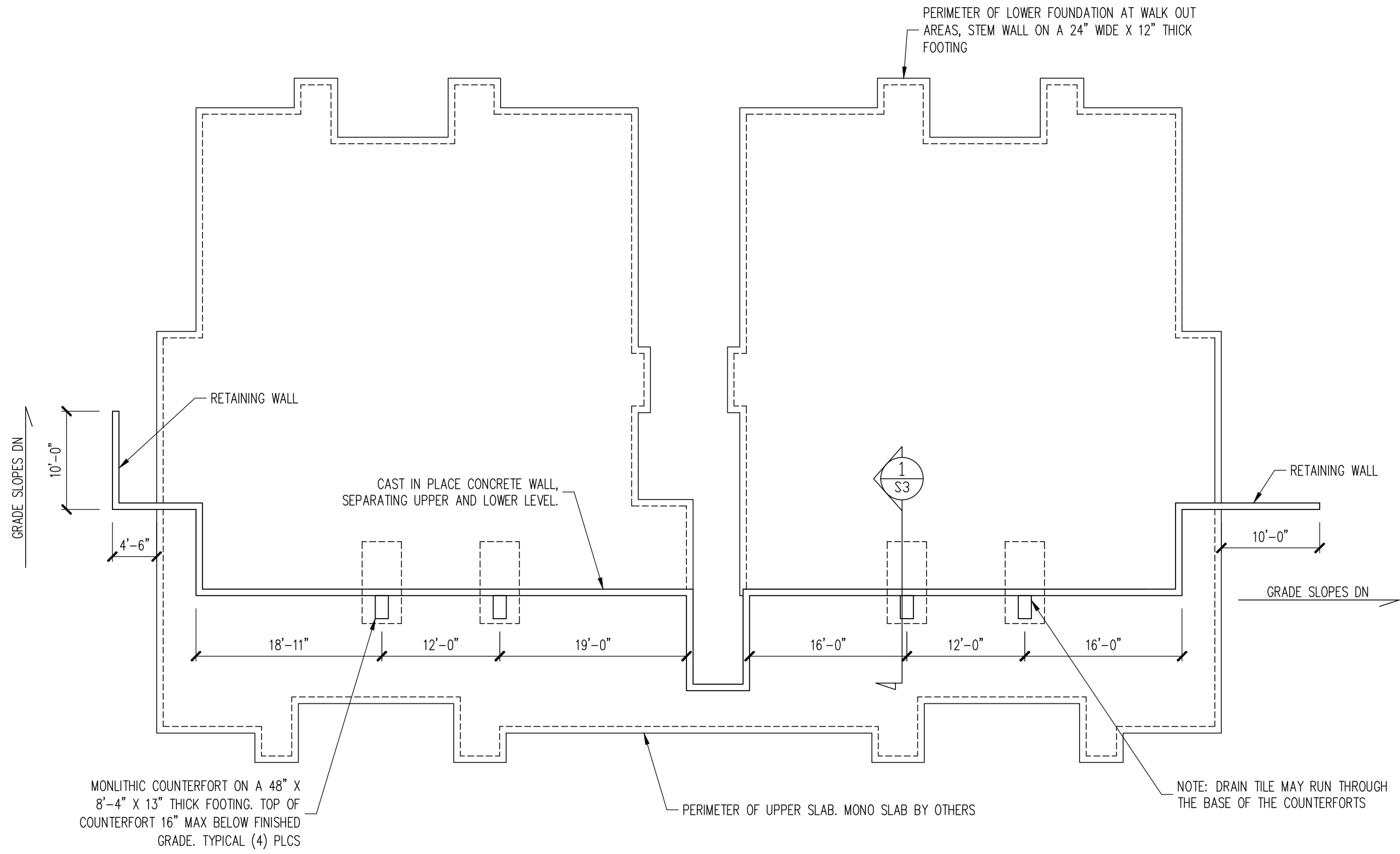


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**Engineering Lech ASSOCIATES, P.A.**



# FOUNDATION PLAN

REFERENCE ONLY  
 3/32" = 1'-0"

CAPITAL CITY FOUNDATIONS	
SCOPE	CONCRETE WALL DESIGN
LOC	FAIRWAY POINT AT ANDERSON CREEK CLUB, GALLERY DR BLDG 17

ENG	KWT
DATE	10-31-19

PROJECT NO.	19-36-016
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SHEET NO.	S4
	4 of 4