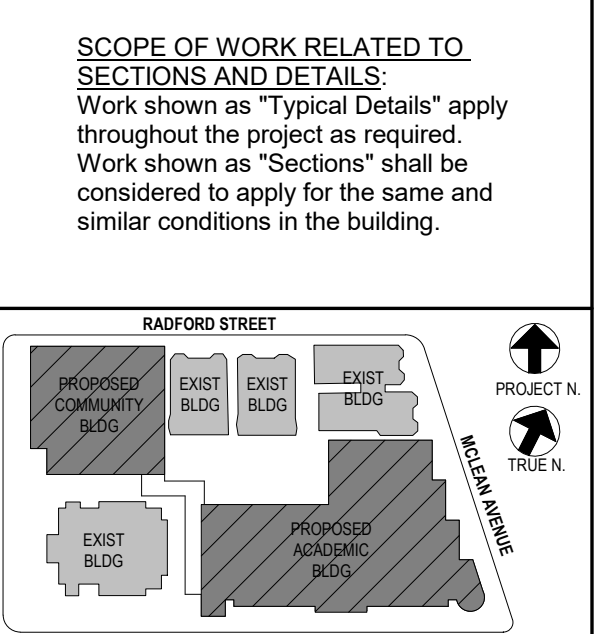


**SCHEDULE OF EMBEDMENT AND SPLICE LENGTH**

BAR SIZE	COMPRESSION	TENSION (F <sub>c</sub> = 3000 psi)								TENSION (F <sub>c</sub> = 4000 psi)								
		EMBEDMENT LENGTH				LAP SPLICE LENGTH				EMBEDMENT LENGTH				LAP SPLICE LENGTH				
		TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS			
#3	4"	12"	22"	33"	11"	25"	24"	43"	23"	33"	19"	29"	15"	22"	25"	31"	20"	24"
#4	11"	15"	24"	43"	22"	33"	38"	56"	24"	43"	29"	43"	24"	29"	33"	41"	25"	38"
#5	14"	14"	36"	54"	28"	42"	41"	71"	31"	55"	31"	41"	24"	36"	41"	62"	32"	41"
#6	17"	23"	43"	65"	39"	50"	56"	85"	43"	65"	31"	56"	24"	43"	49"	73"	38"	56"
#7	20"	27"	63"	94"	48"	72"	82"	123"	63"	94"	54"	81"	42"	63"	71"	106"	55"	82"
#8	22"	30"	72"	107"	55"	83"	94"	140"	72"	108"	62"	83"	49"	72"	81"	121"	63"	94"
#9	25"	34"	81"	121"	62"	93"	106"	158"	81"	121"	70"	105"	54"	81"	91"	137"	71"	106"
#10	28"	38"	91"	136"	70"	105"	118"	177"	91"	137"	74"	118"	61"	91"	103"	154"	80"	114"
#11	31"	43"	101"	151"	78"	116"	152"	197"	101"	151"	81"	131"	61"	101"	114"	171"	88"	132"
#14	38"	NP	121"	181"	93"	140"	NP	NP	NP	NP	105"	151"	81"	121"	NP	NP	NP	NP
#18	50"	NP	161"	242"	124"	186"	NP	NP	NP	NP	140"	204"	108"	161"	NP	NP	NP	NP
SEE NOTE 2	LCE	LCE	LCE	LCE	LTE	LTE	LTE	LTE	LTS	LTS	LTE	LTE	LTS	LTS	LTS	LTS	LTS	LTS

**NOTES:**  
 1. THIS SCHEDULE INCLUDES EMBEDMENT AND SPLICE LENGTHS AS PER ACI 318-02 AND SATISFY THE PROJECT REQUIREMENTS AND THE FOLLOWING CRITERIA. SPECIFIED YIELD STRENGTH OF REINFORCEMENT,  $f_y = 60,000$  PSI NORMAL WEIGHT CONCRETE,  $w = 150$  PCF. TENSION EMBEDMENT AND LAP SPLICE LENGTHS ARE DIVIDED INTO TWO CATEGORIES WHICH SHALL BE APPLIED AS FOLLOWS: CATEGORY I: CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN THE BAR DIAMETER, CLEAR COVER NOT LESS THAN THE BAR DIAMETER, AND STIRRUPS OR TIES THROUGHOUT THE DEVELOPMENT NOT LESS THAN THE CODE MINIMUM; OR, CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED, NOT LESS THAN 2X THE BAR DIAMETER AND CLEAR COVER NOT LESS THAN THE BAR DIAMETER. CATEGORY 2: ALL OTHER CASES.  
 2. NOTATION USED IN SECTION AND DETAILS FOR VARIOUS EMBEDMENT AND SPLICE LENGTH REQUIREMENTS.  
 3. USE COMPRESSION LAP SPLICE LENGTH (LCS) AT ALL COMPRESSION MEMBER SPLICE LOCATIONS NOT SPECIFICALLY DETAILED AND UNLESS INDICATED OTHERWISE ON PLANS OR DETAILS. USE TENSION SPLICE FOR ALL OTHER SPLICES (UNLESS OTHERWISE NOTED ON DWGS).  
 4. THE STANDARD COMPRESSION LAP SPLICE IS  $(0.0005 \times \text{REINFORCED YIELD STRENGTH} \times \text{THE BAR DIAMETER})$ . THE STANDARD TENSION LAP SPLICE CLASS B IS  $13 \times$  THE DEVELOPMENT LENGTH. THE CONTRACTOR MAY SUBMIT LESSER SPLICE LENGTHS FOR REVIEW AND APPROVAL AT THE SAME TIME PROVIDING THE FOLLOWING INFORMATION:  
 A. DETAILS PREPARED AND SUBMITTED BY THE CONTRACTOR INDICATING LOCATION AND PROPOSED LAYOUT OF REBARS AND LENGTH OF SPLICES.  
 B. WHERE THE SIZE AND NUMBER OF TIES OR SPIRALS PERMITS THE REDUCTION OF LAP LENGTH, THOSE BARS SHALL BE INDICATED ON THE DETAILS.  
 C. WHERE COMPUTED STRESS VALUES PERMIT THE REDUCTION OF LAP LENGTH, COMPUTATIONS SHALL BE SUBMITTED FOR REVIEW.  
 D. THE APPLICABLE SECTION OF THE ACI 318-05 CODE PERMITTING THE LESSER SPLICE LENGTH SHALL BE INDICATED ON THE SUBMITTED MATERIAL.  
 5. TOP BARS ARE HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF CONCRETE IS CAST ON THE MEMBER BELOW THE BAR.  
 6. WHERE BARS OF DIFFERENT SIZE ARE TO BE SPLICED, THE SPLICE LENGTH FOR ALL BARS SHALL BE THAT REQUIRED FOR THE LARGEST.  
 7. "NP" INDICATES NOT PERMITTED. BARS LARGER THAN NO. 11 SHALL NOT BE SPLICED EXCEPT AS FOLLOWS: TO #11 BARS IN COMPRESSION, USE LARGER OF THE DEVELOPMENT LENGTH OF THE LARGER BAR OR THE SPLICE LENGTH OF THE SMALLER BAR (51" FOR #14 AND 68" FOR #18).



**NOTE:** ALL DESIGN, SECTION, DIMENSIONS AND PLAN INDICATIONS OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF ARCHITECT ENGINEER DESIGN ARCHITECTS PC (AEC) AND ARE CREATED FOR USE ON THIS PROJECT. NONE OF SUCH DESIGN ARRANGEMENTS OR PLAN SHALL BE USED BY OTHER DESIGNERS FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF AEC.  
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4	11/01/21	ISSUE FOR BIDS
3	07/14/21	CONSTRUCTION DOCUMENTS - NYSED
2	12/15/20	DESIGN DEVELOPMENT
1	08/31/20	SCHEMATIC DESIGN

No. | Date | Issue