

NOTICE

SHORTAGES, IMPROPER FABRICATION OR CLAIMS FOR ANY OTHER REASON MUST BE REPORTED TO THIS COMPANY WITHIN 10 DAYS FROM ORIGINAL DELIVERY. THIS COMPANY ALSO RESERVES THE RIGHT TO FIELD INSPECT MATERIALS PRIOR TO REPLACEMENT OR RECONDITIONING OF MATERIALS AND WILL NOT BE LIABLE FOR CHARGES FROM WORK DONE IN THE FIELD WITHOUT PRIOR AUTHORIZATION FROM THIS COMPANY.

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Bar Mark	Qty	Size	Total Length	Type	X	Y	Z	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A
6H19	5	#6	16'-7"	17																										
6H20	6	#6	27'-10"	17																										
6H21	4	#6	35'-1"	17																										
6H22	3	#6	11'-10"	17																										
6H23	12	#6	19'-4"	17																										

TYPICAL REINFORCING BAR CLEARANCE TABLE	
LOCATION	MIN. COVER
SLAB TOP & BOTTOM	1" CLR

LAP SCHEDULE

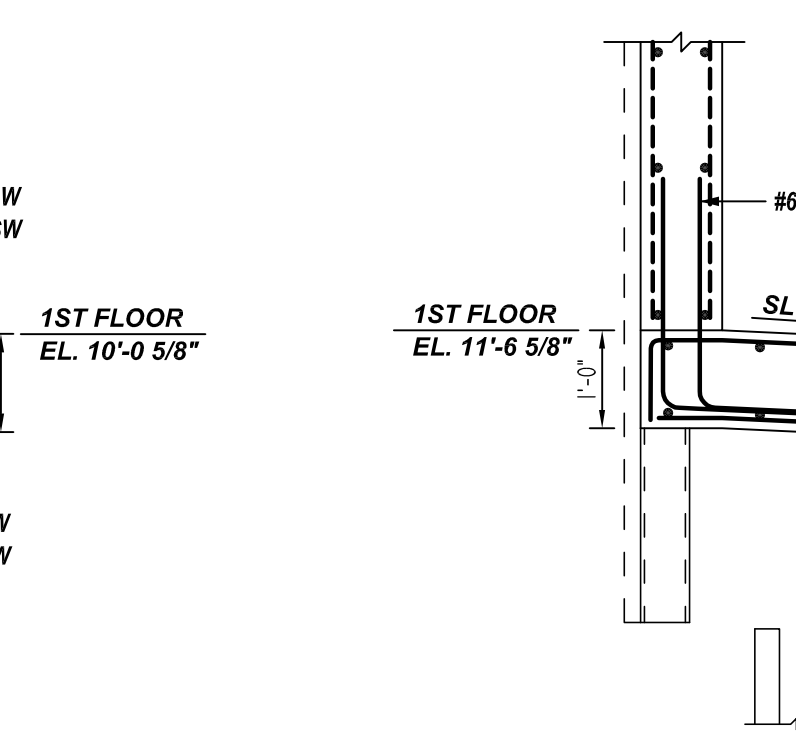
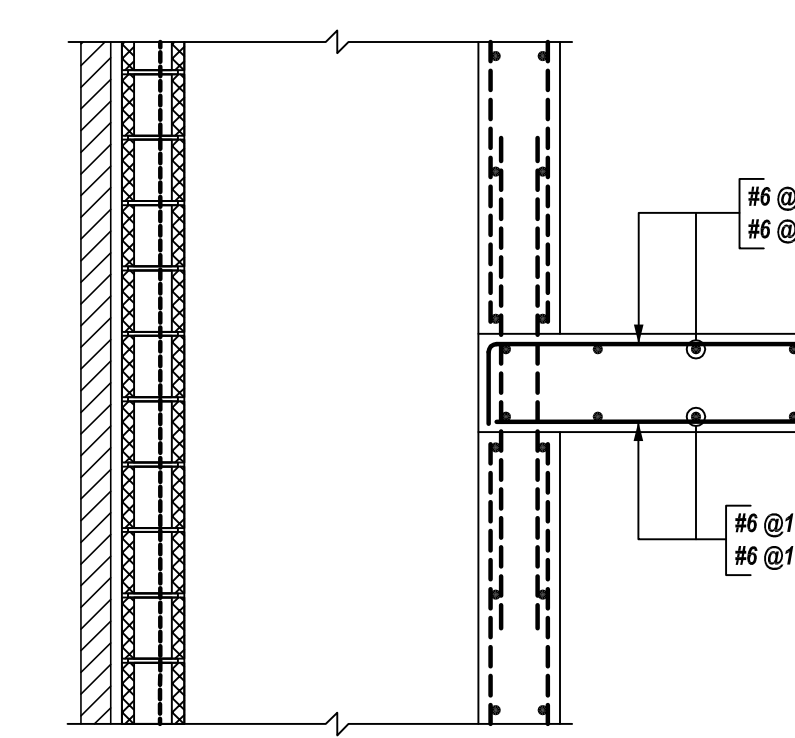
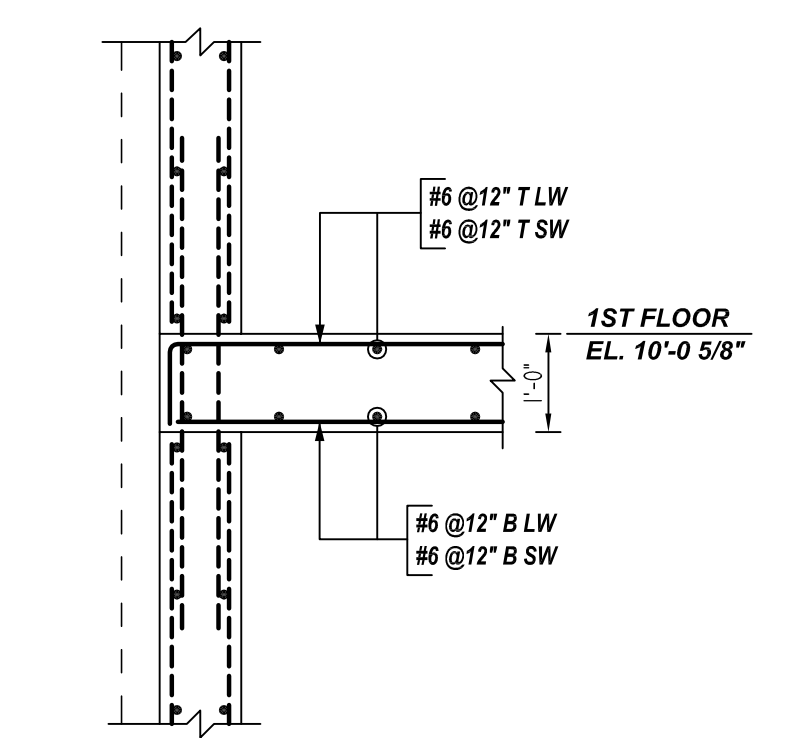
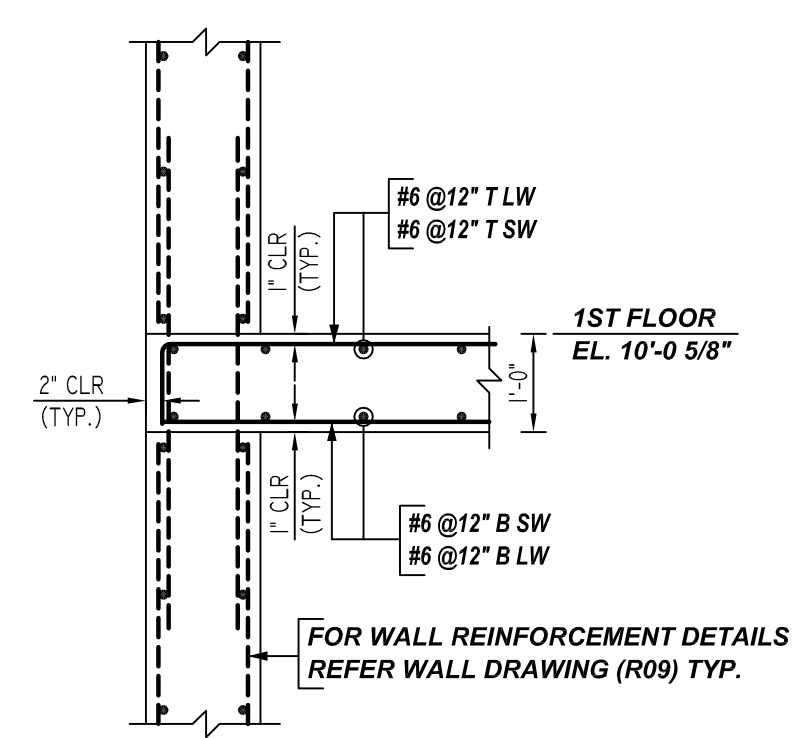
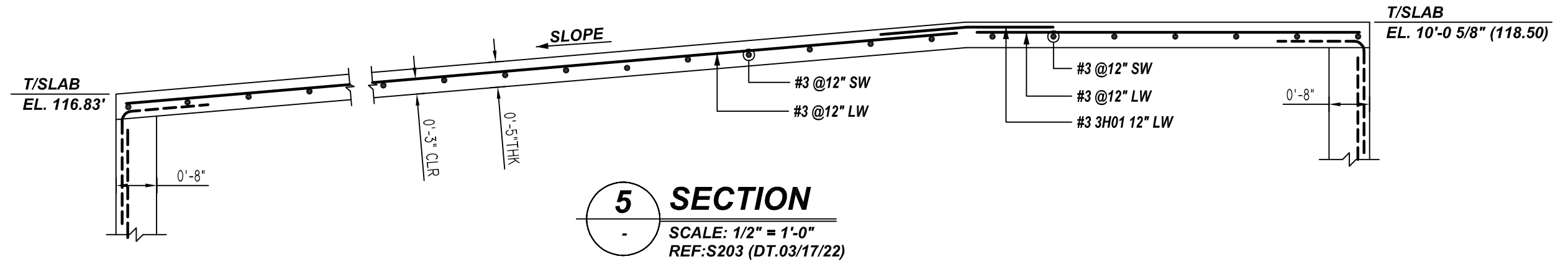
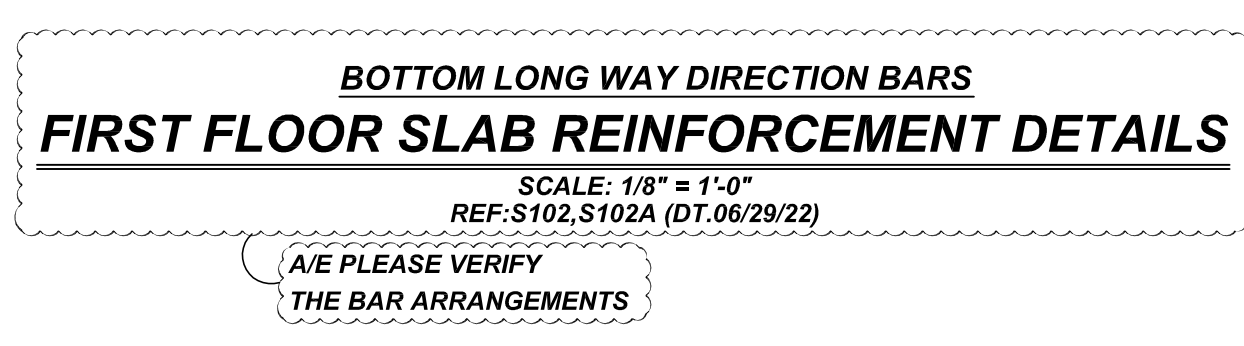
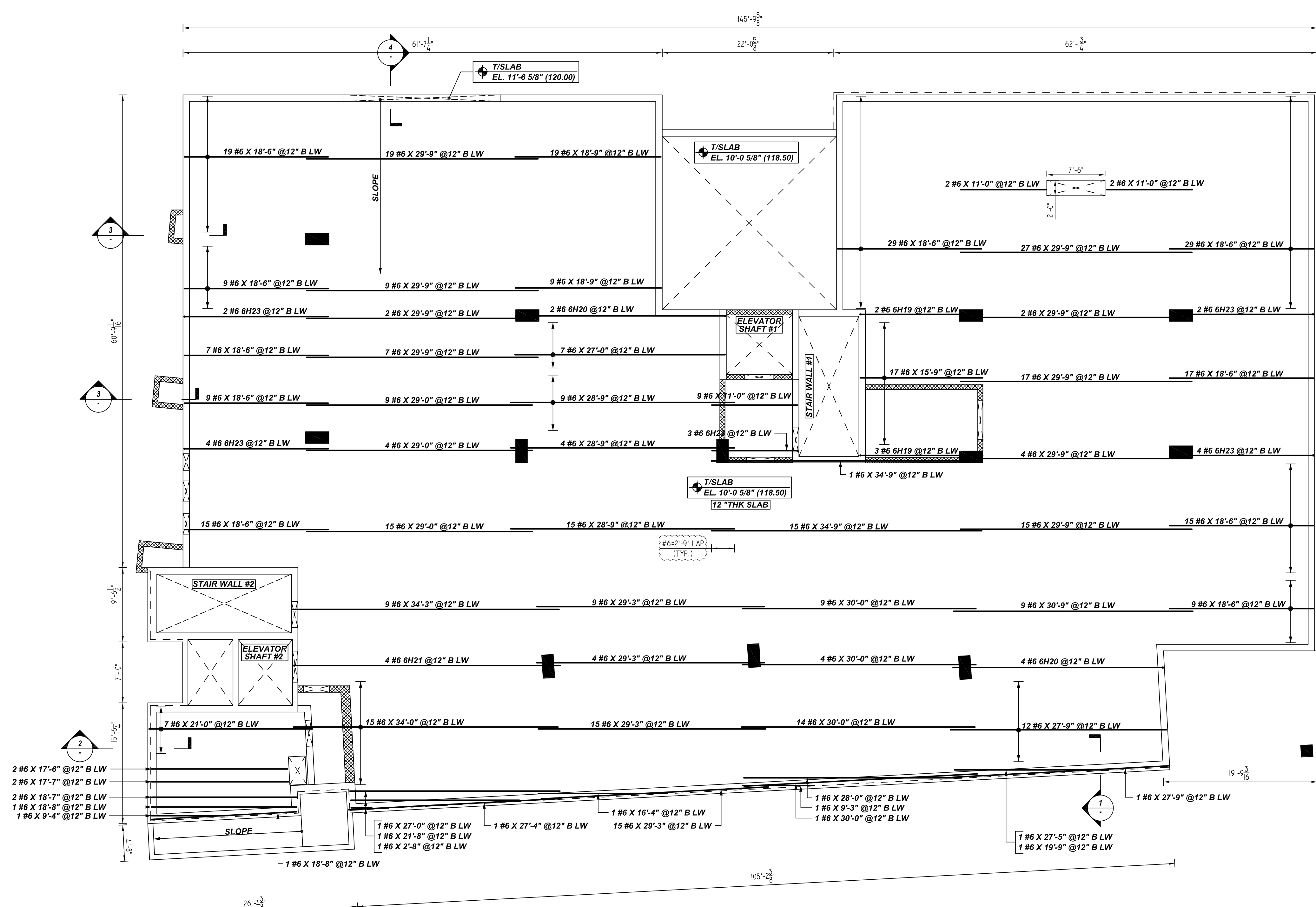
5000 PSI (CLASS-B) CASE - 1
Per ACI 318 (12.2.2)

BAR#	LENGTHS	
	TOP	OTHERS
#3	1'-10"	1'-5"
#4	2'-5"	1'-10"
#5	3'-0"	2'-4"
#6	3'-7"	2'-9"
#7	5'-3"	4'-1"
#8	6'-0"	4'-7"

**ALL BARS IN THIS DRAWING
ASTM A615 GRADE 60
BLACK UNCOATED**

ACCESSORIES DETAILS

S. NO	ELEMENT	DESCRIPTION	PCS	LFT	REMARK
1	12" THK SLAB	7" HT CHCU @4'-0" C/C	350	1750	FOR BAR SUPPORT (@TOP)



REBAR GRADE 60 ASTM A-615

SPLICES USED		ABBREVIATIONS		BAR MARK SIZE EQUIVALENT	
CLASS B 4,000 psi UNO				Imperial	Soft Metric
TOP BARS	OTHER BARS	ADD.	Additional	#3	#10
#3	#3	B.O.W.	Bottom of wall	#4	#13
#4	#4	C.B.	Corner Bars	#5	#16
#5	#5	DIAG.	Diagonal	#6	#19
#6	#6	D.O.	Door Opening	#7	#22
#7	#7	DWLS.	Dowels	#8	#25
#8	#8	E.F.	Each Face	#9	#29
#9	#9	E.S.	Each Side	#10	#32
#10	#10	E.W.	Each Way	#11	#36
#11	#11	FTG.	Footing		
#12	#12	F.F.	Far Face		
#13	#13	HORIZ.	Horizontal		
#14	#14	I.F.	Inside Face		
		INTERSECT.	Intersection		
		L.W.	Long Way		
		N.F.	Near Face		
		O.F.	Outside Face		
		S.W.	Short Way		
		T&B	Top & Bottom		
		T.O.W.	Top of Wall		
		Trans.	Transverse		
		VERT.	Vertical		

**LIBERTY PARK 48 UNITS
FIRST FLOOR SLAB REINFORCEMENT DETAILS
UNION CITY, NJ**

CUSTOMER: TORRES ATENO
DESIGNER: JT ENGINEERING

REV NO	DATE	APPROVAL	REV NO	DATE	SENT FOR
0	08.09.22				

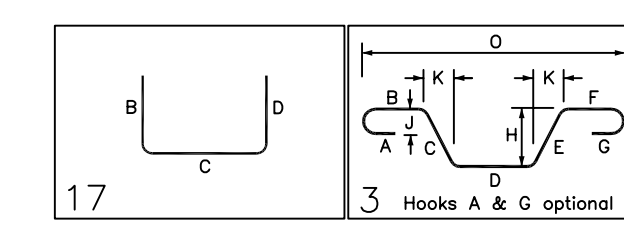
DRAWN BY	DATE	JOB NO	SHEET NO.
RTP/SS	08.09.22	M92270614P	R18

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Bar Mark	Qty	Size	Total Length	Type	X'	Y'	Z'	V'	W'	U'	T'	S'	R'	Q'	P'	O'	N'	M'	L'	K'	J'	I'	H'	G'	F'	E'	D'	C'	B'	A'
6H01a	2	#6	15'-6"																											
Varies To																														
6H01	1	#6	14'-5"																											
6H13	8	#6	23'-6"	17																										
6H14	3	#6	18'-7"	17																										
6H15	5	#6	19'-10"	17																										
6H16	2	#6	12'-1"	17																										
6H17	2	#6	19'-7"	17																										
6H18	6	#6	30'-7"	17																										
6H19	3	#6	16'-7"	17																										
6H20	3	#6	27'-10"	17																										
6H24	126	#6	7'-0"	17																										
6H25	63	#6	2'-8 1/2"	3																										



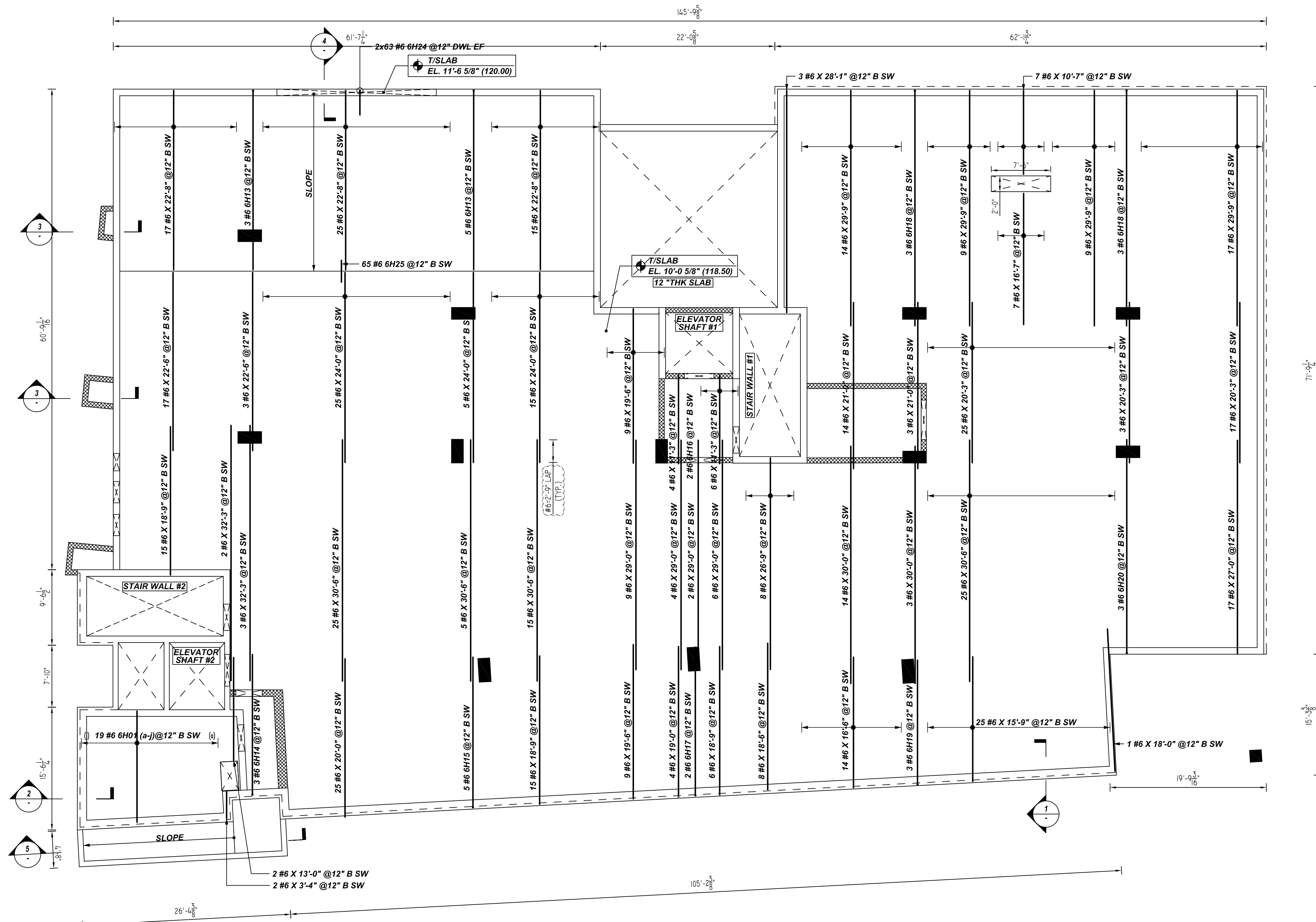
LOCATION	MIN. COVER
SLAB TOP & BOTTOM	1" CLR

LAP SCHEDULE

5000 PSI (CLASS-B) CASE - 1
Per ACI 318 (12.2.2)

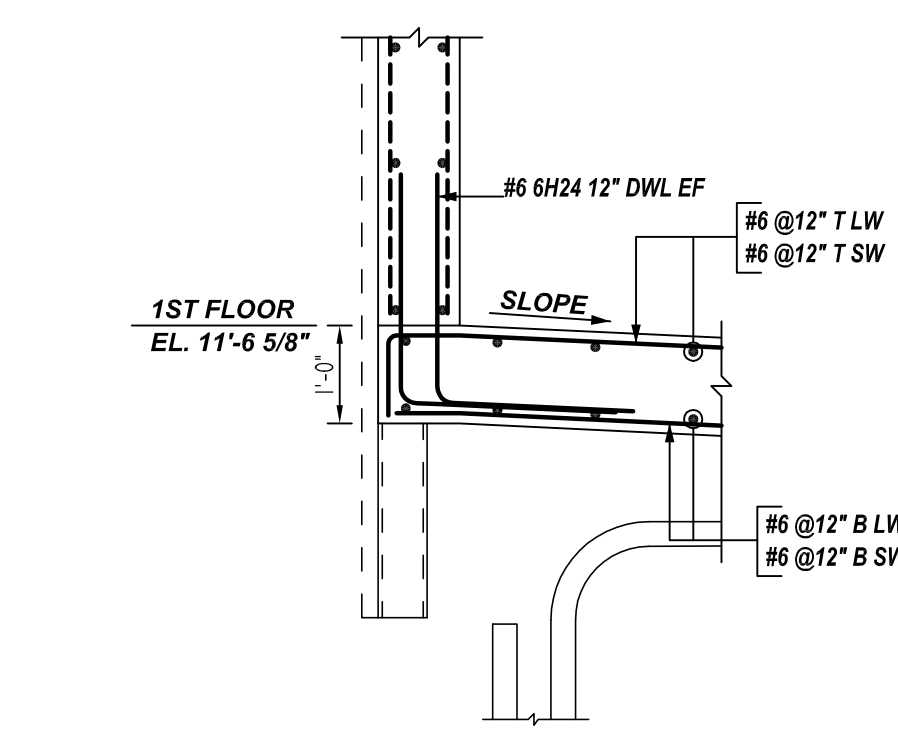
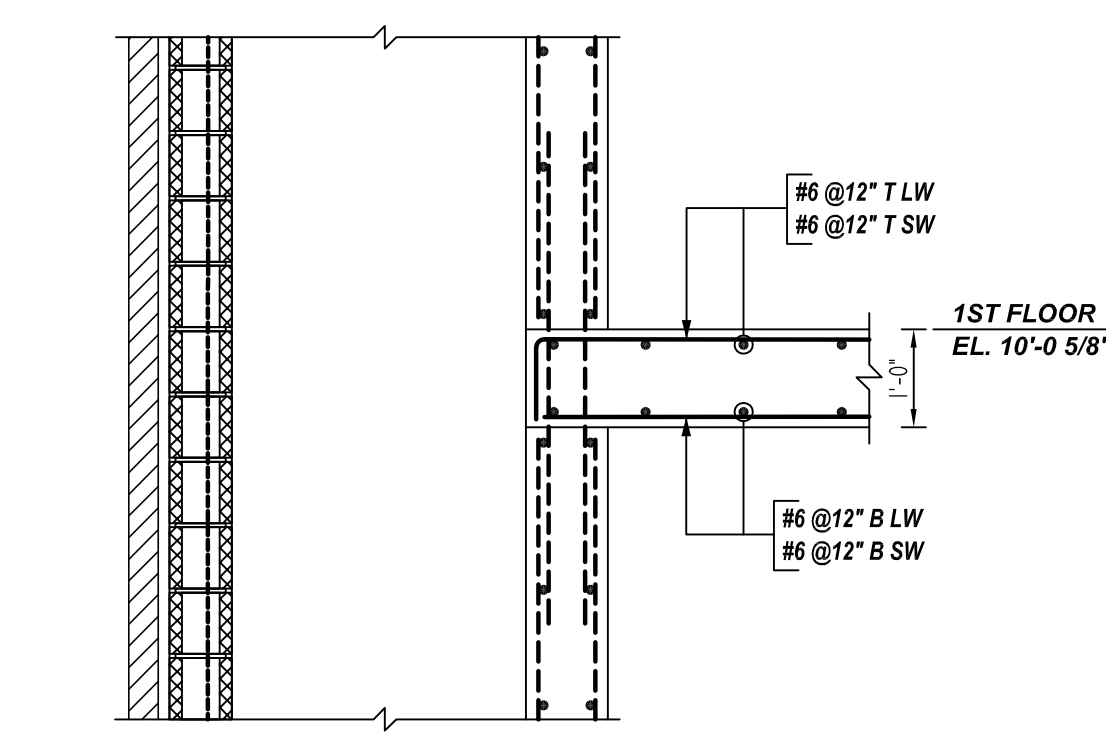
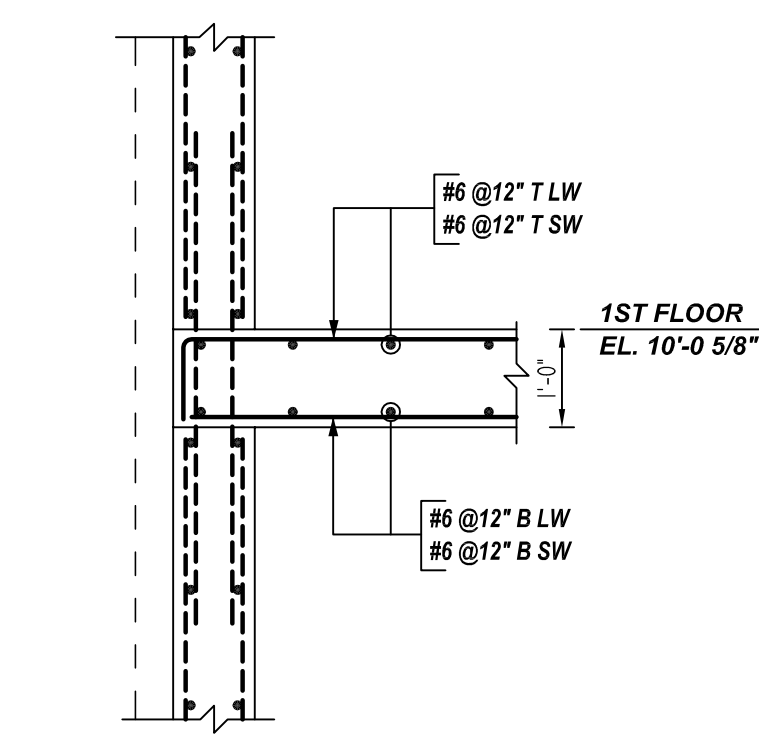
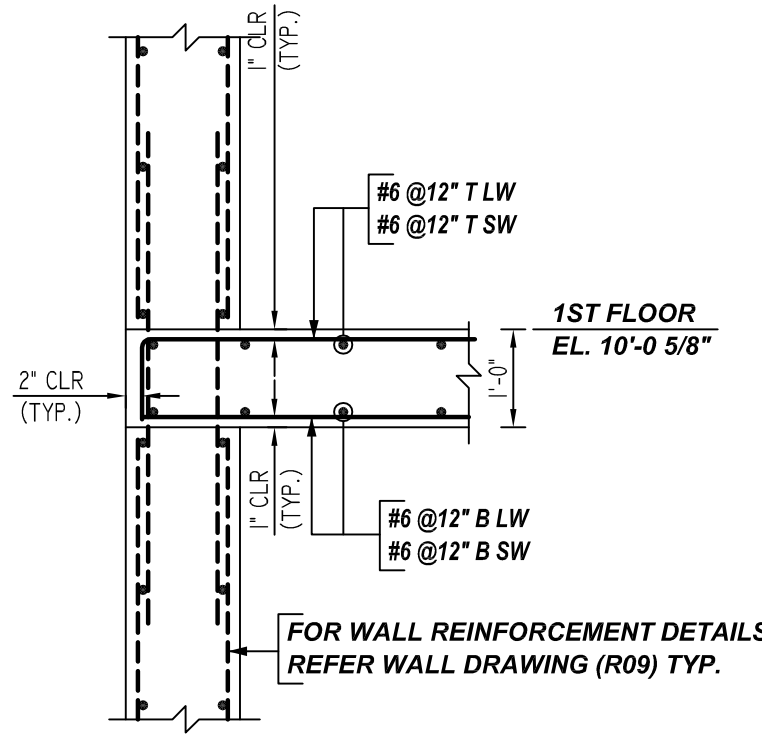
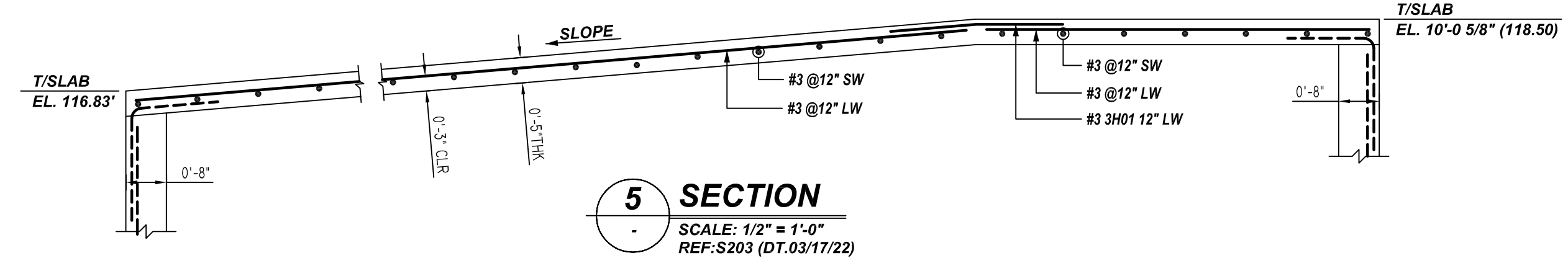
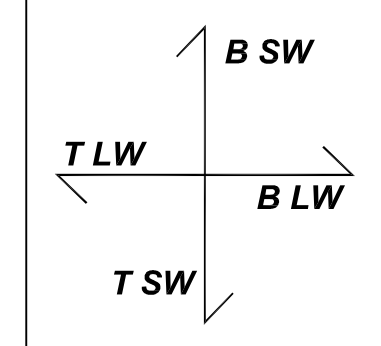
BAR#	LENGTHS	
	TOP	OTHERS
#3	1'-10"	1'-5"
#4	2'-5"	1'-10"
#5	3'-0"	2'-4"
#6	3'-7"	2'-9"
#7	5'-3"	4'-1"
#8	6'-0"	4'-7"

**ALL BARS IN THIS DRAWING
ASTM A615 GRADE 60
BLACK UNCOATED**



**BOTTOM SHORT WAY DIRECTION BARS
FIRST FLOOR SLAB REINFORCEMENT DETAILS**

SCALE: 1/8" = 1'-0"
REF: S102, S102A (DT.06/29/22)
A/E PLEASE VERIFY THE BAR ARRANGEMENTS



REBAR GRADE 60 ASTM A-615

SPLICES USED		ABBREVIATIONS		BAR MARK SIZE EQUIVALENT	
CLASS B 4,000 psi UNO		ADD.	= Additional		
TOP BARS	OTHER BARS	B.O.W.	= Bottom of wall		
#3 -	#3 -	C.B.	= Corner Bars	Imperial	Soft Metric
#4 -	#4 -	DIAG.	= Diagonal	#3	#10
#5 -	#5 -	D.O.	= Door Opening	#4	#13
#6 -	#6 -	DWLS.	= Dowels	#5	#16
#7 -	#7 -	E.F.	= Each Face	#6	#19
#8 -	#8 -	E.S.	= Each Side	#7	#22
#9 -	#9 -	E.W.	= Each Way	#8	#25
#10 -	#10 -	FTG.	= Footing	#9	#29
#11 -	#11 -	F.F.	= Far Face	#10	#32
#12 -	#12 -	HORIZ.	= Horizontal	#11	#36
#13 -	#13 -	I.F.	= Inside Face		
#14 -	#14 -	INTERS.	= Intersection		
		L.W.	= Long Way		
		N.F.	= Near Face		
		O.F.	= Outside Face		
		S.W.	= Short Way		
		T&B	= Top & Bottom		
		T.O.W.	= Top of Wall		
		Trans.	= Transverse		
		VERT.	= Vertical		

**LIBERTY PARK 48 UNITS
FIRST FLOOR SLAB REINFORCEMENT DETAILS
UNION CITY, NJ**

CUSTOMER: TORRES ATENO
DESIGNER: JT ENGINEERING

1 SECTION
SCALE: 1/2" = 1'-0"
REF: 1/S301 (DT.03/17/22)

2 SECTION
SCALE: 1/2" = 1'-0"
REF: 2/S301 (DT.03/17/22)

3 SECTION
SCALE: 1/2" = 1'-0"
REF: 3/S301 (DT.03/17/22)

4 SECTION
SCALE: 1/2" = 1'-0"
REF: 4/S301 (DT.03/17/22)

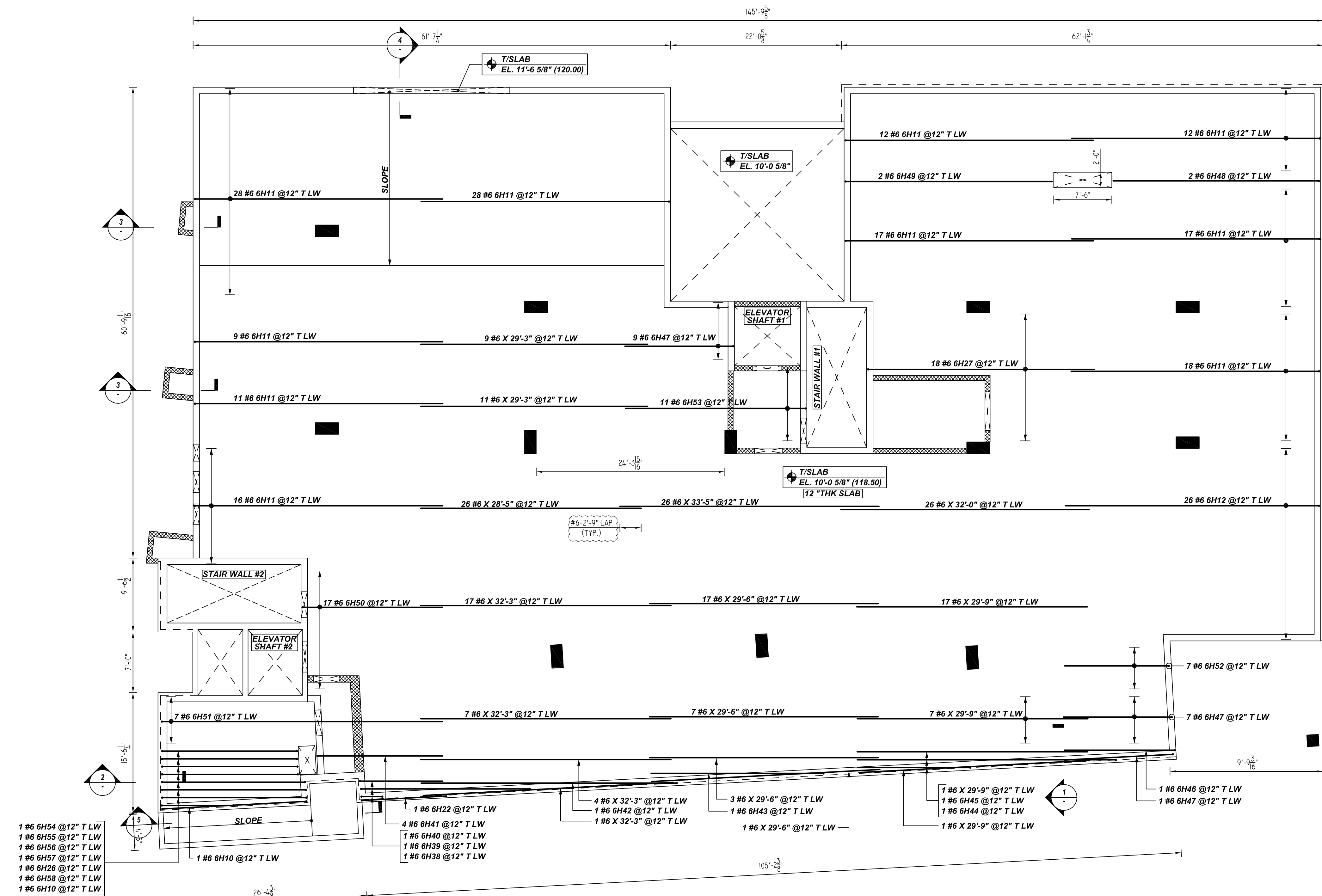
REV NO	DATE	APPROVAL	SENT FOR	REV NO	DATE	SENT FOR
0	08.09.22					

DRAWN BY	DATE	JOB NO	SHEET NO.
RTP/SS	08.09.22	M92270614P	R19

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Bar Mark	Qty	Size	Total Length	Type	X	Y	Z	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A
6H10	2	#6	20'-4"	17																										
6H11	168	#6	32'-10"	17																										
6H12	26	#6	33'-7"	17																										
6H22	1	#6	11'-10"	17																										
6H25	1	#6	20'-2"	17																										
6H27	18	#6	32'-11"	17																										
6H29	1	#6	11'-0"	17																										
6H38	1	#6	4'-5"	17																										
6H39	1	#6	23'-6"	17																										
6H40	1	#6	11'-6"	17																										
6H41	4	#6	17'-0"	17																										
6H42	1	#6	33'-10"	17																										
6H43	1	#6	23'-5"	17																										
6H44	1	#6	15'-5"	17																										
6H45	1	#6	34'-3"	17																										
6H46	1	#6	15'-11"	17																										
6H47	17	#6	14'-10"	17																										
6H48	2	#6	27'-5"	17																										
6H49	2	#6	27'-5"	17																										
6H50	17	#6	16'-11"	17																										
6H51	1	#6	37'-11"	17																										
6H52	7	#6	14'-4"	17																										
6H53	11	#6	24'-11"	17																										
6H54	1	#6	19'-11"	17																										
6H55	1	#6	19'-2"	17																										
6H56	1	#6	19'-2"	17																										
6H57	1	#6	19'-3"	17																										
6H58	1	#6	19'-3"	17																										
6H59	1	#6	20'-31"	17																										

TYPICAL REINFORCING BAR CLEARANCE TABLE

LOCATION	MIN. COVER
SLAB TOP & BOTTOM	1" CLR

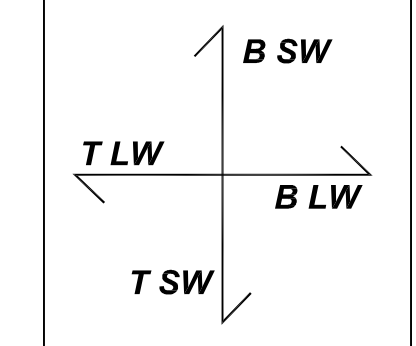
LAP SCHEDULE

5000 PSI (CLASS-B) CASE - 1
Per ACI 318 (12.2.2)

BAR#	LENGTHS	
	TOP	OTHERS
#3	1'-10"	1'-5"
#4	2'-5"	1'-10"
#5	3'-0"	2'-4"
#6	3'-7"	2'-9"
#7	5'-3"	4'-1"
#8	6'-0"	4'-7"

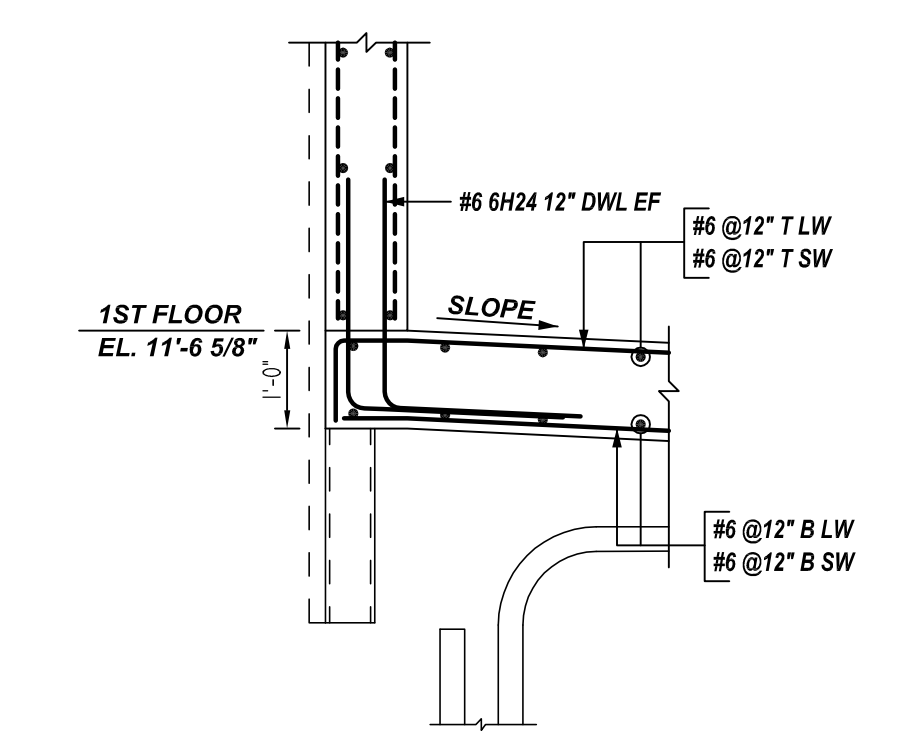
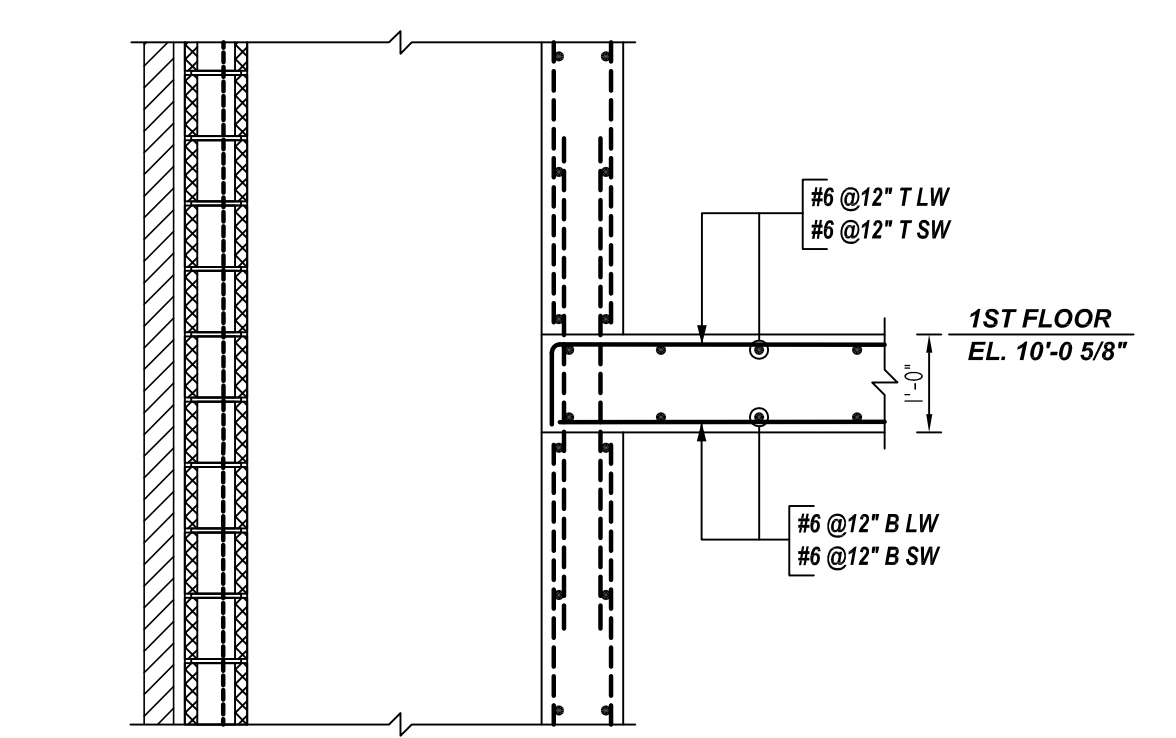
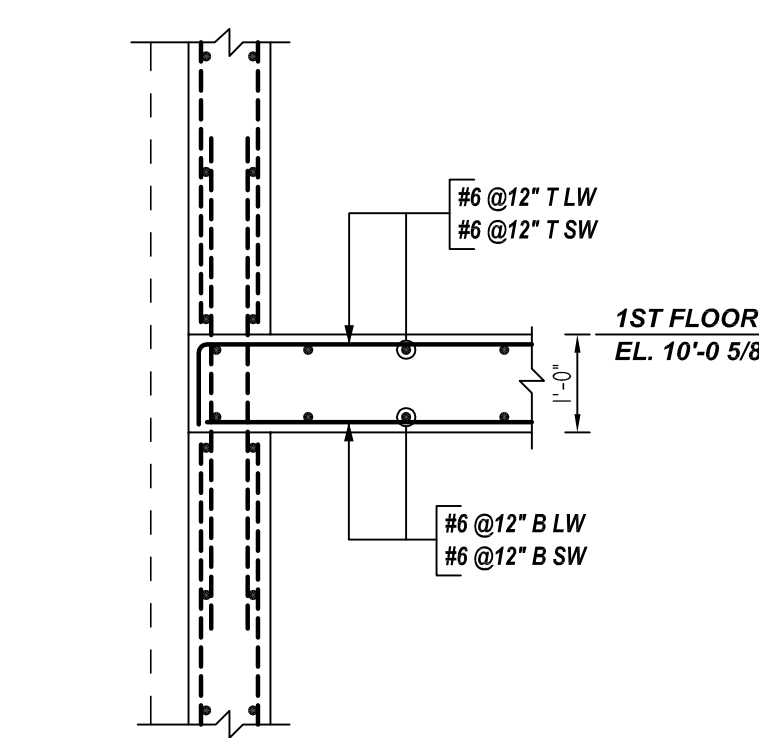
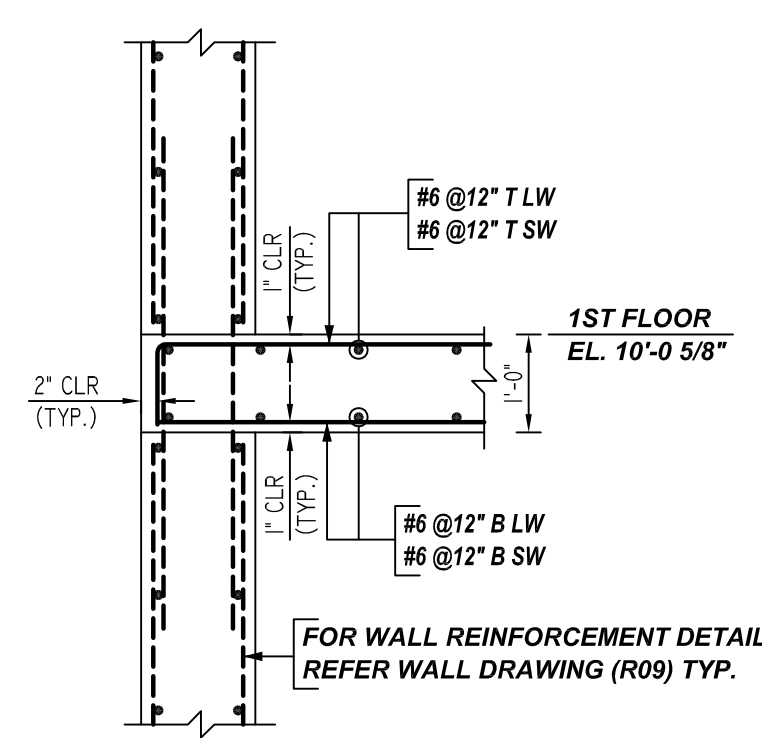
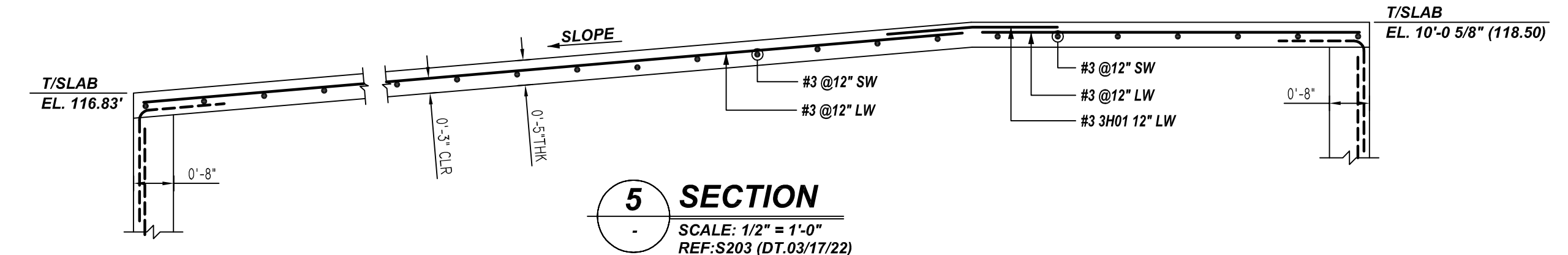
**ALL BARS IN THIS DRAWING
ASTM A615 GRADE 60
BLACK UNCOATED**

**TOP LONG WAY DIRECTION BARS
FIRST FLOOR SLAB REINFORCEMENT DETAILS**



SCALE: 1/8" = 1'-0"
REF: S102, S102A (DT.06/29/22)

A/E PLEASE VERIFY
THE BAR ARRANGEMENTS



REBAR GRADE 60 ASTM A-615

SPLICES USED		ABBREVIATIONS		BAR MARK SIZE EQUIVALENT	
CLASS B 4,000 psi UNO		ADD.	= Additional	#3	#10
TOP BARS	OTHER BARS	B.O.W.	= Bottom of wall	#4	#13
#3	#3	C.B.	= Corner Bars	#5	#16
#4	#4	DIAG.	= Diagonal	#6	#19
#5	#5	D.O.	= Door Opening	#7	#22
#6	#6	D.W.L.S.	= Dowels	#8	#25
#7	#7	E.F.	= Each Face	#9	#29
#8	#8	E.S.	= Each Side	#10	#32
#9	#9	E.W.	= Each Way	#11	#36
#10	#10	FTG.	= Footing		
#11	#11	F.F.	= Far Face		
#14	#14	HORIZ.	= Horizontal		
		I.F.	= Inside Face		
		INTERS.	= Intersection		
		L.W.	= Long Way		
		N.F.	= Near Face		
		O.F.	= Outside Face		
		S.W.	= Short Way		
		T&B	= Top & Bottom		
		T.O.W.	= Top of Wall		
		Trans.	= Transverse		
		VERT.	= Vertical		

**LIBERTY PARK 48 UNITS
FIRST FLOOR SLAB REINFORCEMENT DETAILS
UNION CITY, NJ**

CUSTOMER: TORRES ATENO
DESIGNER: JT ENGINEERING

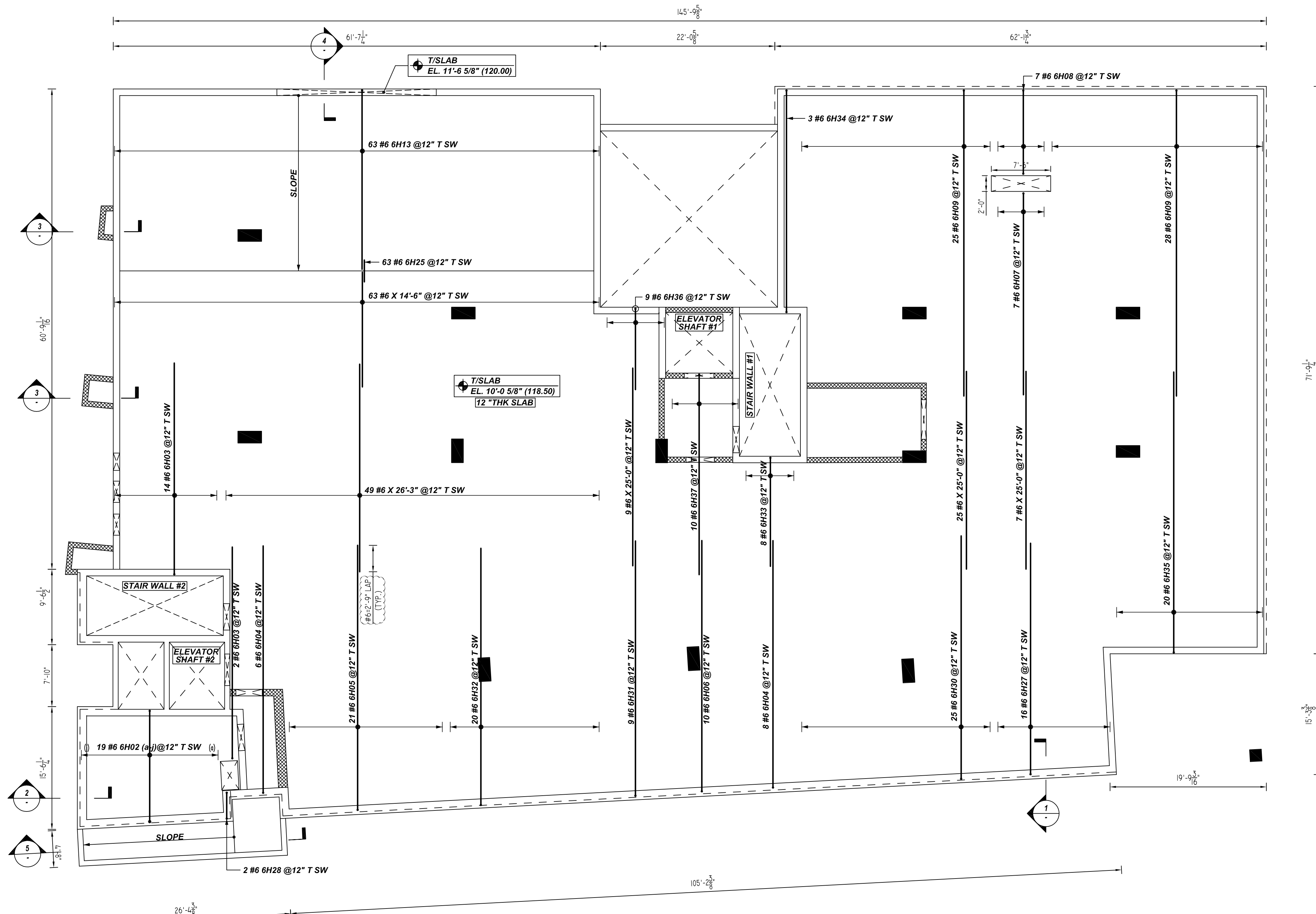
REV NO	DATE	APPROVAL	REV NO	DATE	SENT FOR
0	08.09.22				

DRAWN BY	DATE	JOB NO	SHEET NO.
RTP/SS	08.09.22	M92270614P	R20

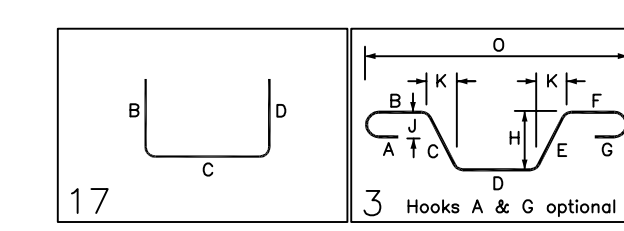
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Bar Mark	Qty	Size	Total Length	Type	X	Y	BENDING DETAILS											
Varies To							1	2	3	4	5	6	7	8	9	10	11	12
6H02	1	#6	16'-1 1/2"	17			0'-10"	14'-5 3/4"	0'-10"									
6H03	16	#6	27'-7 1/2"	17			0'-10"	26'-9"	0'-10"									
6H04	14	#6	32'-1 1/2"	17			0'-10"	31'-3 1/2"	0'-10"									
6H05	21	#6	34'-4 1/2"	17			0'-10"	33'-6"	0'-10"									
6H06	10	#6	32'-7 1/2"	17			0'-10"	31'-9"	0'-10"									
6H07	7	#6	26'-4 1/2"	17			0'-10"	25'-6"	0'-10"									
6H08	7	#6	12'-3 1/2"	17			0'-10"	10'-7 1/2"	0'-10"									
6H09	53	#6	39'-5 1/2"	17			0'-10"	38'-8"	0'-10"									
6H13	63	#6	23'-5 1/2"	17			0'-10"	22'-8"	0'-10"									
6H25	63	#6	2'-8 3/4"	3			1'-4 3/4"	1'-4 3/4"						0'-1 1/2"		1'-4 3/4"	2'-8 3/4"	
6H27	16	#6	30'-1 1/2"	17			0'-10"	29'-3 1/2"	0'-10"									
6H28	7	#6	3'-0"	17			0'-10"	3'-4"	0'-10"									
6H30	25	#6	33'-7 1/2"	17			0'-10"	30'-9"	0'-10"									
6H31	9	#6	33'-1 1/2"	17			0'-10"	32'-3 1/2"	0'-10"									
6H32	20	#6	33'-4 1/2"	17			0'-10"	32'-6"	0'-10"									
6H33	8	#6	14'-7 1/2"	17			0'-10"	13'-9"	0'-10"									
6H34	3	#6	28'-9 1/2"	17			0'-10"	28'-1 1/2"	0'-10"									
6H35	20	#6	36'-4 1/2"	17			0'-10"	35'-6"	0'-10"									
6H36	8	#6	11'-1 1/2"	17			0'-10"	10'-3 1/2"	0'-10"									
6H37	10	#6	26'-2 1/2"	17			0'-10"	25'-4 1/2"	0'-10"									



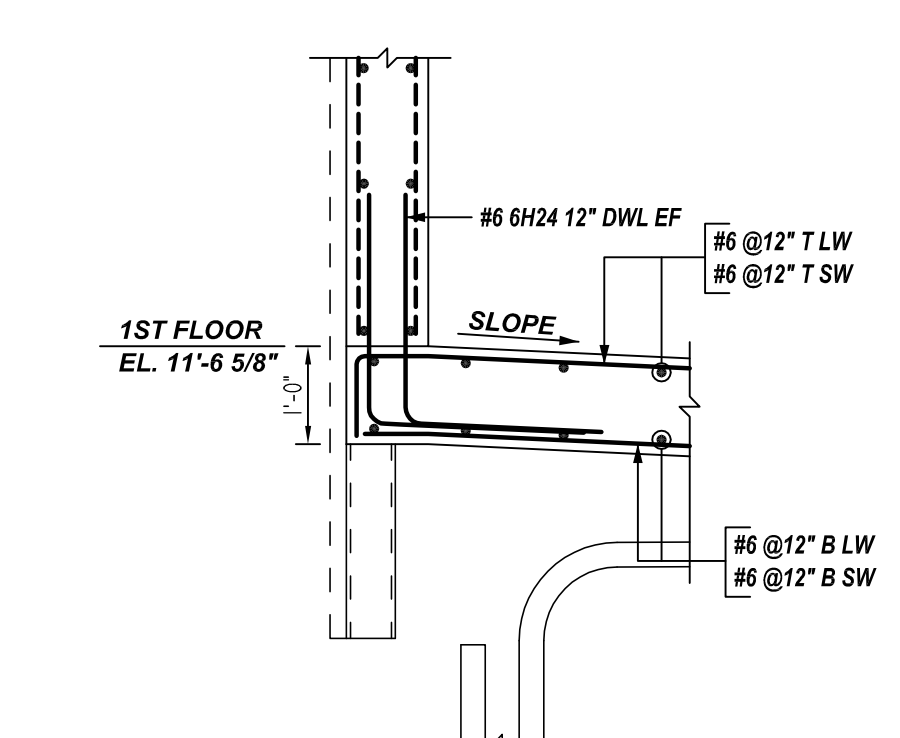
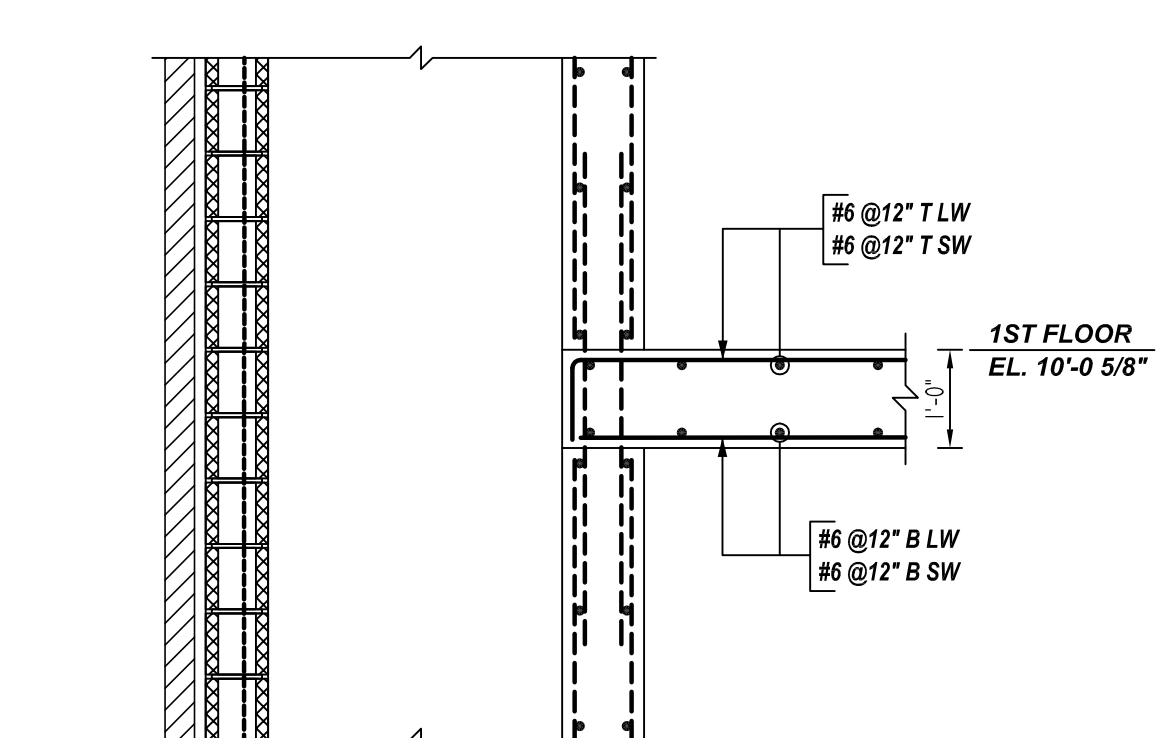
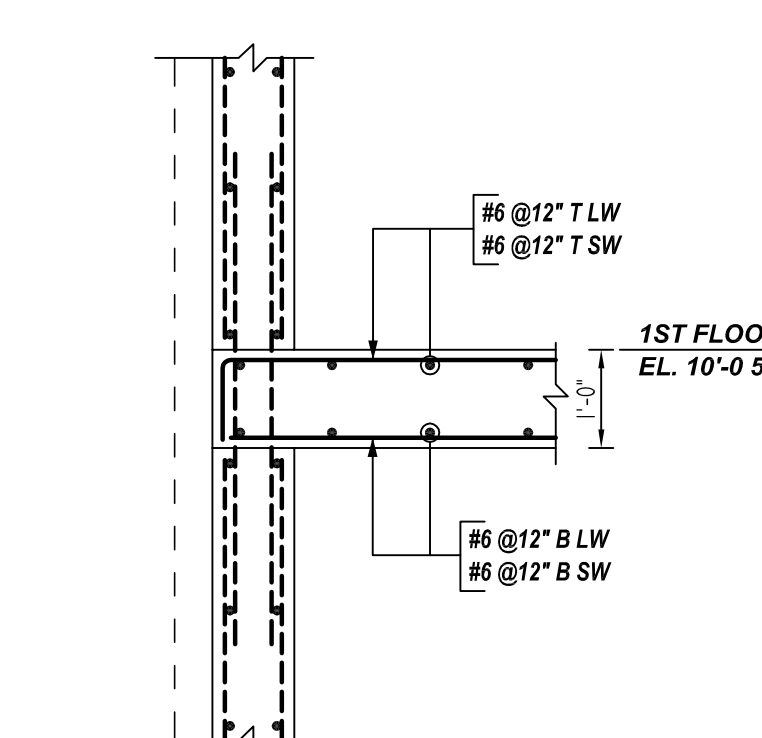
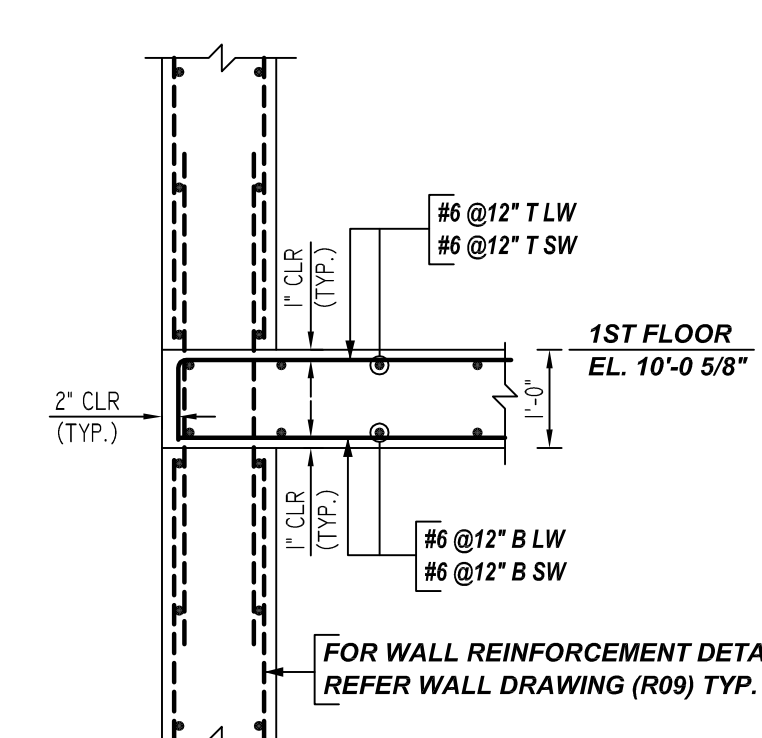
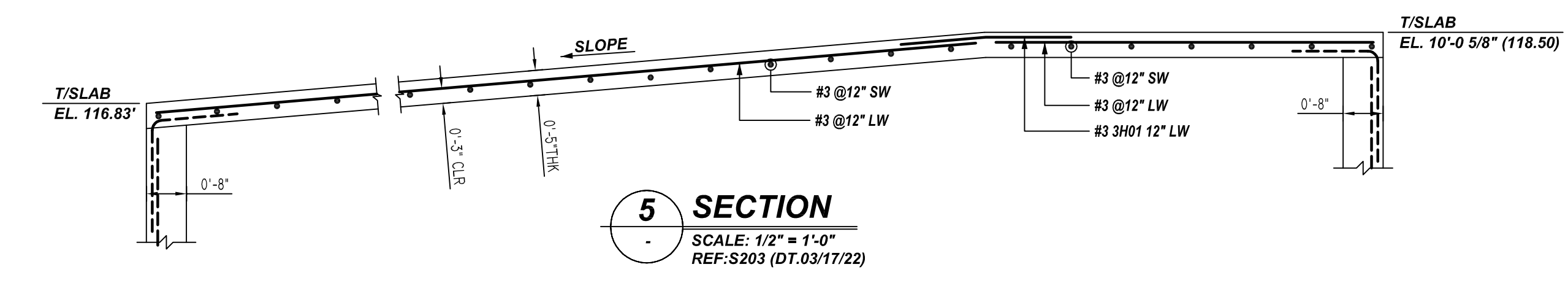
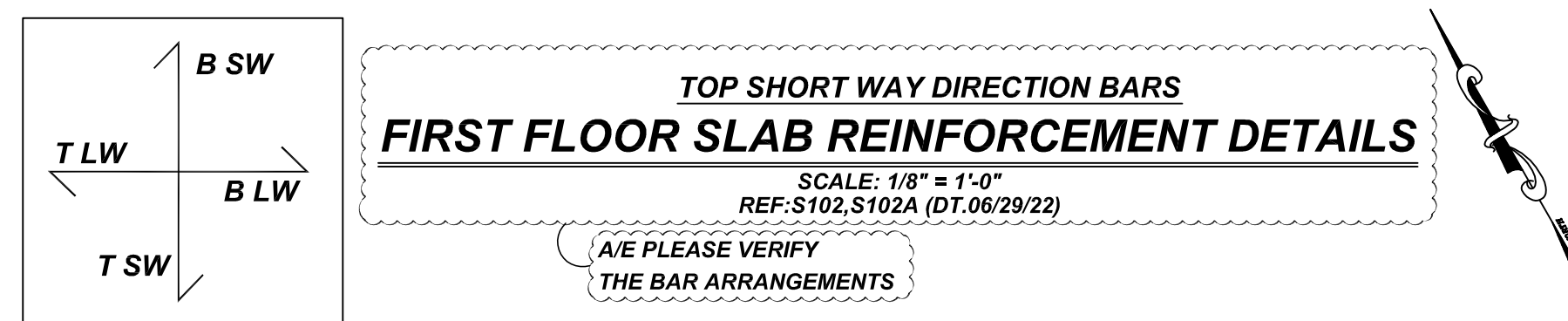
TYPICAL REINFORCING BAR CLEARANCE TABLE	
LOCATION	MIN. COVER
SLAB TOP & BOTTOM	1" CLR

LAP SCHEDULE

5000 PSI (CLASS-B) CASE - 1
Per ACI:318 (12.2.2)

BAR#	LENGTHS	
	TOP	OTHERS
#3	1'-10"	1'-5"
#4	2'-5"	1'-10"
#5	3'-0"	2'-4"
#6	3'-7"	2'-9"
#7	5'-3"	4'-1"
#8	6'-0"	4'-7"

**ALL BARS IN THIS DRAWING
ASTM A615 GRADE 60
BLACK UNCOATED**



REBAR GRADE 60 ASTM A-615

SPLICES USED		ABBREVIATIONS		BAR MARK SIZE EQUIVALENT	
CLASS B 4,000 psi UNO				Imperial	Soft Metric
TOP BARS	OTHER BARS	ADD.	= Additional	#3	#10
#3	#3	B.O.W.	= Bottom of wall	#4	#13
#4	#4	C.B.	= Corner Bars	#5	#16
#5	#5	DIAG.	= Diagonal	#6	#19
#6	#6	D.O.	= Door Opening	#7	#22
#7	#7	D.W.L.S.	= Dowels	#8	#25
#8	#8	E.F.	= Each Face	#9	#29
#9	#9	E.S.	= Each Side	#10	#32
#10	#10	E.W.	= Each Way	#11	#36
#11	#11	FTG.	= Footing		
#14	#14	F.F.	= Far Face		
		HORIZ.	= Horizontal		
		I.F.	= Inside Face		
		INTERS.	= Intersection		
		L.W.	= Long Way		
		N.F.	= Near Face		
		O.F.	= Outside Face		
		S.W.	= Short Way		
		T&B	= Top & Bottom		
		T.O.W.	= Top of Wall		
		Trans.	= Transverse		
		VERT.	= Vertical		

**LIBERTY PARK 48 UNITS
FIRST FLOOR SLAB REINFORCEMENT DETAILS
UNION CITY, NJ**

CUSTOMER: TORRES ATENO
DESIGNER: JT ENGINEERING

REV NO	DATE	APPROVAL	SENT FOR	REV NO	DATE	SENT FOR
0	08.09.22					

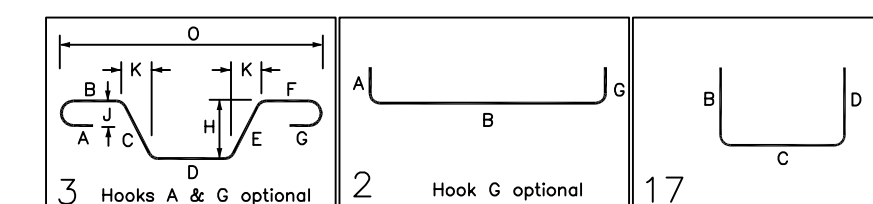
DRAWN BY	DATE	JOB NO	SHEET NO.
RTP/SS	08.09.22	M92270614P	R21

NOTICE

SHORTAGES, IMPROPER FABRICATION OR CLAIMS FOR ANY OTHER REASON MUST BE REPORTED TO THIS COMPANY WITHIN 10 DAYS FROM ORIGINAL DELIVERY. THIS COMPANY ALSO RESERVES THE RIGHT TO FIELD INSPECT MATERIALS PRIOR TO REPLACEMENT OR RECONDITIONING OF MATERIALS AND WILL NOT BE LIABLE FOR CHARGES FROM WORK DONE IN THE FIELD WITHOUT PRIOR AUTHORIZATION FROM THIS COMPANY.

REINFORCING STEEL PLACING DRAWING ONLY. USE IN CONJUNCTION WITH CONTRACT DRAWINGS & SPECIFICATIONS. ELEVATIONS & DIMENSIONS SHOWN ON DRAWING ARE FOR DETAILING PURPOSES ONLY AND SHOULD NOT BE USED FOR CONSTRUCTION UNLESS VERIFIED BY ENGINEER OR CONTRACTOR.

Bar Mark	Qty	Size	Total Length	Type	X	Y	Z	BENDING DETAILS
3#1	3	#3	2'-9" X 3		1'-5"	1'-4"		
4#1	14	#4	2'-9" X 2		0'-8"	2'-1"		
6#59	1	#6	30'-0" X 3		7'-2"	22'-10"		
6#60	1	#6	9'-11" X 3		6'-6"	3'-5"		1'-6" X 22'-9" X 29'-11" X
6#61	7	#6	10'-10" X 17		0'-10"	10'-0"		0'-3" X 3'-5" X 9'-11" X
6#62	3	#6	13'-5" X 3		2'-5"	11'-2"		0'-7" X 11'-2" X 13'-5" X
6#63	3	#6	14'-11" X 3		3'-0"	11'-11"		0'-7" X 11'-11" X 14'-11" X



TYPICAL REINFORCING BAR CLEARANCE TABLE

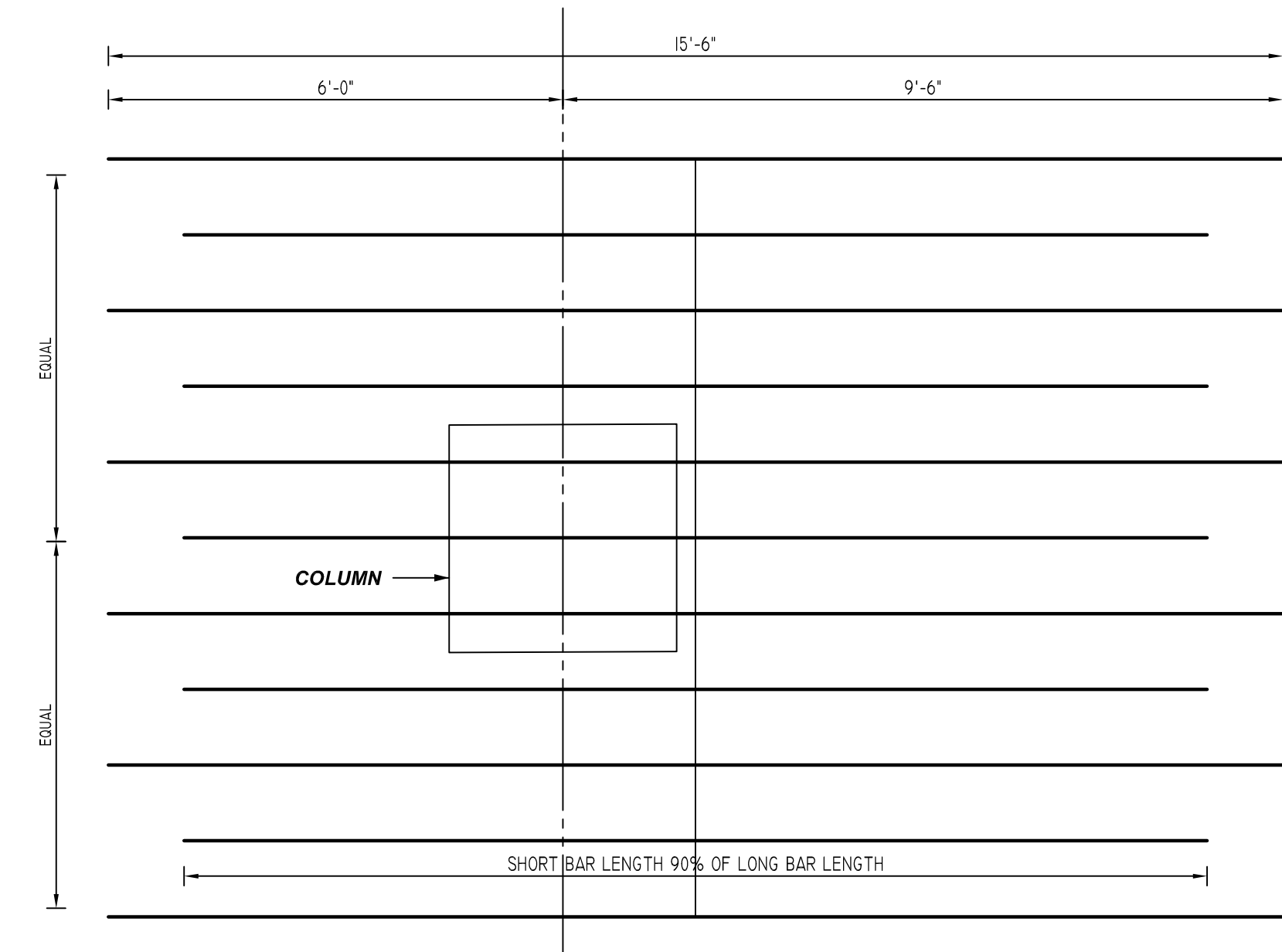
LOCATION	MIN. COVER
SLAB TOP & BOTTOM	1" CLR

LAP SCHEDULE

5000 PSI (CLASS-B) CASE - 1
Per ACI 318 (12.2.2)

BAR#	LENGTHS	
	TOP	OTHERS
#3	1'-10"	1'-5"
#4	2'-5"	1'-10"
#5	3'-0"	2'-4"
#6	3'-7"	2'-9"
#7	5'-3"	4'-1"
#8	6'-0"	4'-7"

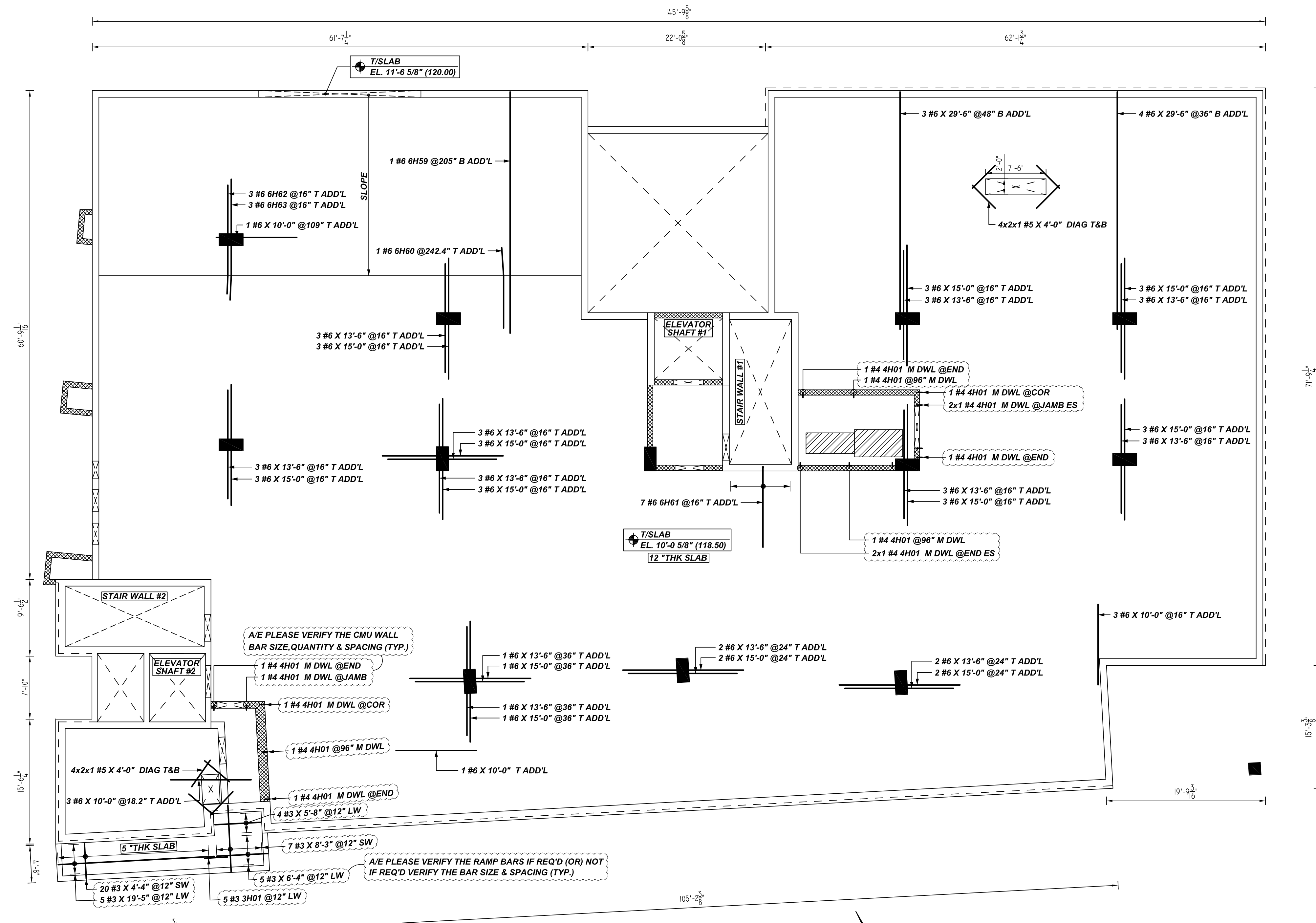
**ALL BARS IN THIS DRAWING
ASTM A615 GRADE 60
BLACK UNCOATED**



TYPICAL COLUMN STRIP TOP BAR PLACEMENT (OPTION-1)

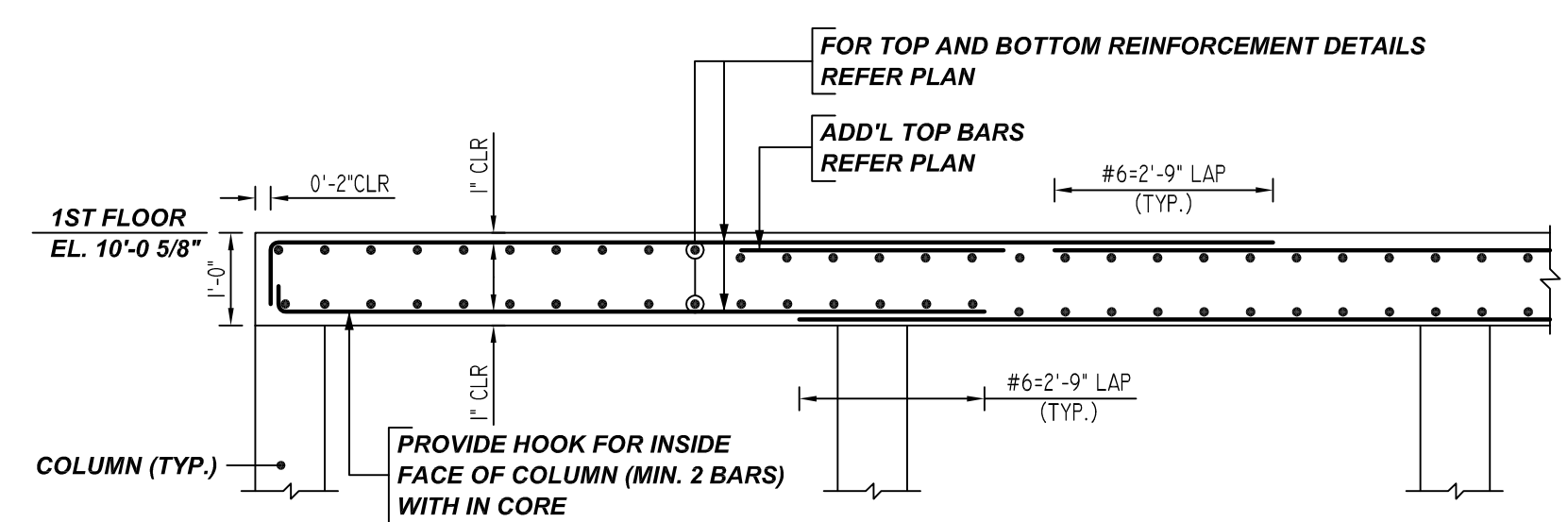
SCALE: 1/2" = 1'-0"
REF: S304 (DT.03/17/22)

A/E PLEASE CONFIRM THE COLUMN STRIP (OPTION-1) CONDITION WE FOLLOWED



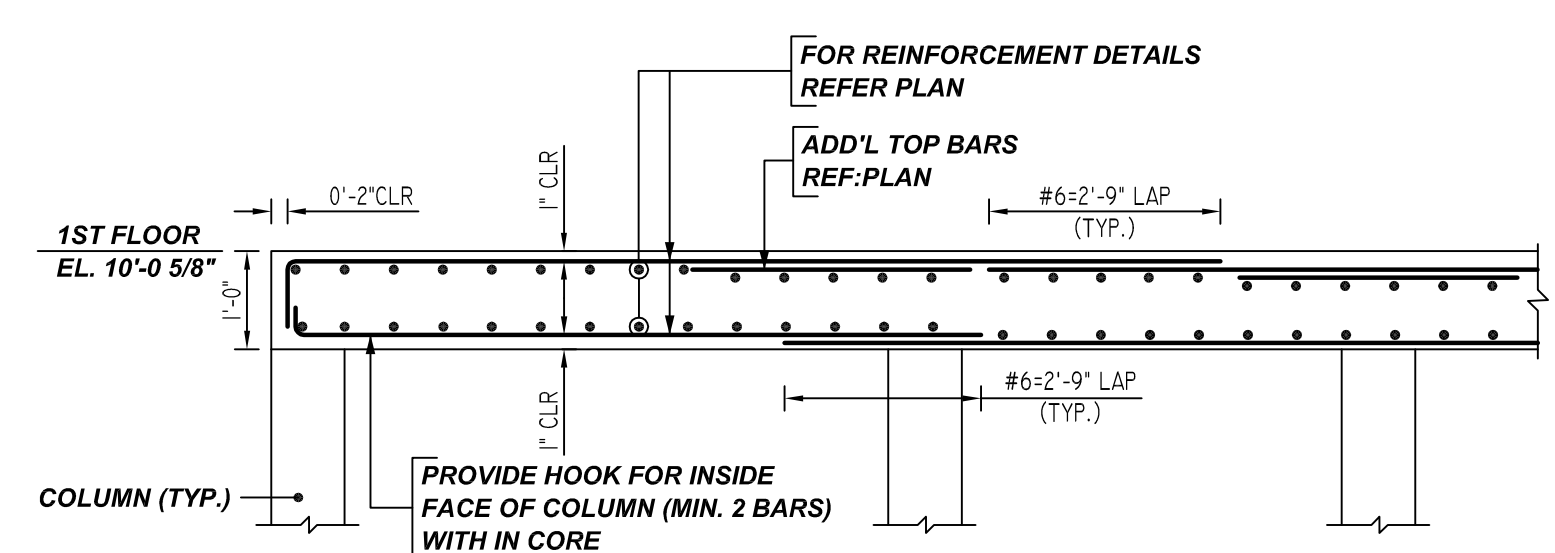
FIRST FLOOR SLAB REINFORCEMENT DETAILS

SCALE: 1/8" = 1'-0"
REF: S102, S102A (DT.06/29/22)



TYPICAL 2-WAY CONCRETE SLAB (MIDDLE STRIP) CONSTRUCTION DETAIL

SCALE: 1/2" = 1'-0"
REF: S304 (DT.03/17/22)



TYPICAL 2-WAY CONCRETE SLAB (COLUMN STRIP) CONSTRUCTION DETAIL

SCALE: 1/2" = 1'-0"
REF: S304 (DT.03/17/22)

REBAR GRADE 60 ASTM A-615

SPLICES USED		ABBREVIATIONS		BAR MARK SIZE EQUIVALENT	
CLASS B 4,000 psi UNO		ADD.	= Additional	Imperial	Soft Metric
TOP BARS	OTHER BARS	B.O.W.	= Bottom of wall	#3	#10
#3	#3	C.B.	= Corner Bars	#4	#13
#4	#4	DIAG.	= Diagonal	#5	#16
#5	#5	D.O.	= Door Opening	#6	#19
#6	#6	D.W.L.S.	= Dowels	#7	#22
#7	#7	E.F.	= Each Face	#8	#25
#8	#8	E.S.	= Each Side	#9	#29
#9	#9	E.W.	= Each Way	#10	#32
#10	#10	FTG.	= Footing	#11	#36
#11	#11	F.F.	= Far Face		
#14	#14	HORIZ.	= Horizontal		
		I.F.	= Inside Face		
		INTERS.	= Intersection		
		L.W.	= long Way		
		N.F.	= Near Face		
		O.F.	= Outside Face		
		S.W.	= Short Way		
		T&B	= Top & Bottom		
		T.O.W.	= Top of Wall		
		Trans.	= Transverse		
		VERT.	= Vertical		

LIBERTY PARK 48 UNITS
FIRST FLOOR SLAB REINFORCEMENT DETAILS
UNION CITY, NJ

CUSTOMER: TORRES ATENO
DESIGNER: JT ENGINEERING

REV NO	DATE	APPROVAL	REV NO	DATE	SENT FOR	DRAWN BY	DATE	JOB NO	SHEET NO.
0	08.09.22					RTP/SS	08.09.22	M92270614P	R22