

GRADE BEAM SCHEDULE

MARK	THICKNESS	VERTICAL STIRRUPS	HORIZONTAL REINFORCEMENT
G12	1'-0"	#4 @ 12" O.C. E.F.	3 #6 T&B, #4 @ 12" O.C. E.F.
G29	2'-5"	#4 @ 12" O.C. E.F.	6 #6 T&B, #4 @ 12" O.C. E.F.
G32	2'-8"	#4 @ 12" O.C. E.F.	6 #6 T&B, #4 @ 12" O.C. E.F.
G53	4'-4"	#4 @ 12" O.C. E.F.	8 #6 T&B, #4 @ 12" O.C. E.F.

A/E PLEASE VERIFY LAP VALUE

LAP SCHEDULE

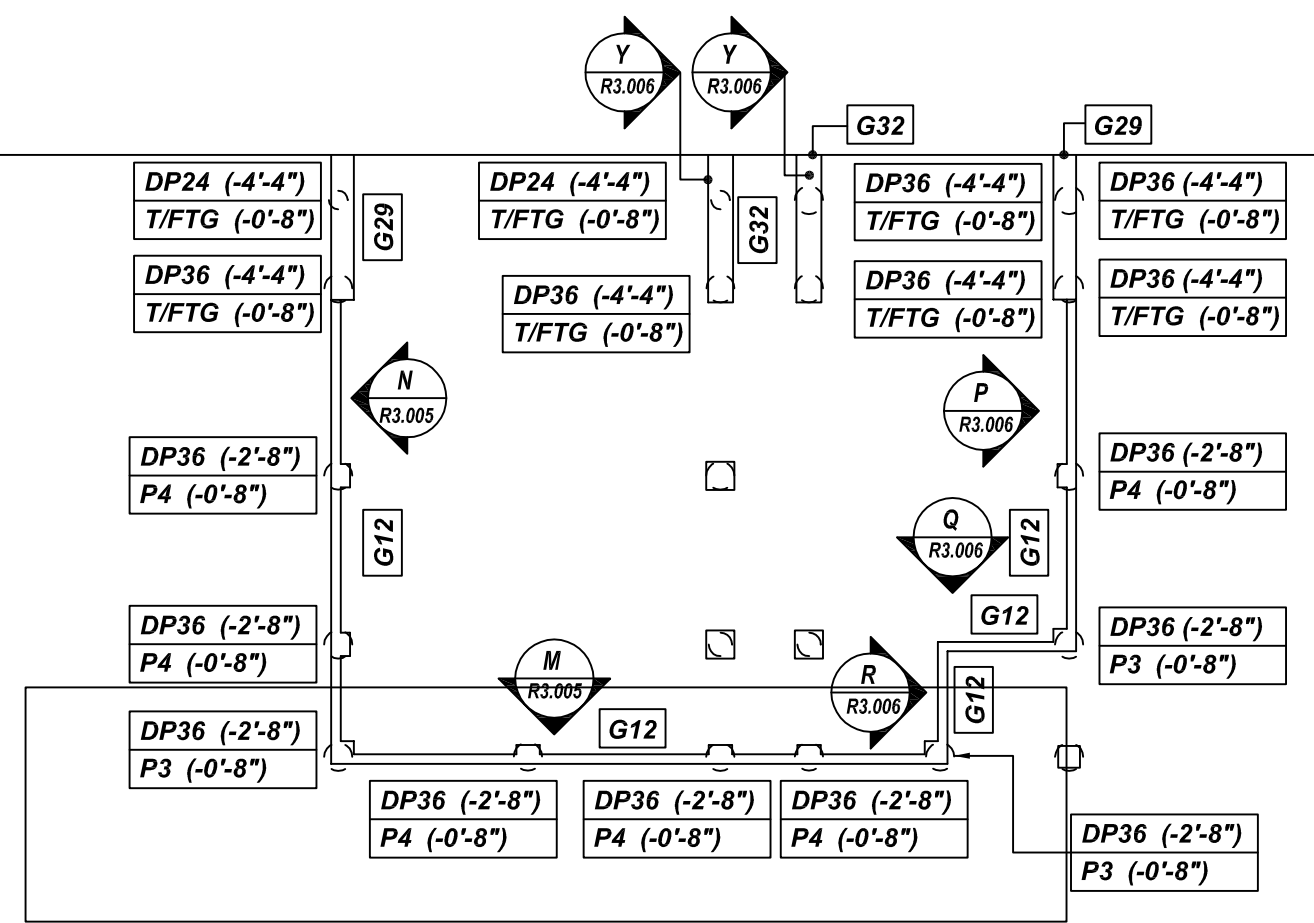
SIZE	3000 PSI	
	TOP	OTHERS
#3	28"	22"
#4	37"	29"
#5	47"	36"
#6	56"	43"
#7	81"	63"
#8	93"	72"
#9	105"	81"
#10	118"	91"
#11	131"	101"

A/E PLEASE VERIFY COVER DETAILS

TYPICAL REINFORCING BAR CLEARANCE TABLE

LOCATION	MIN. COVER
GRADE BEAM TOP & SIDE	2" CLR
GRADE BEAM BOTTOM	3" CLR

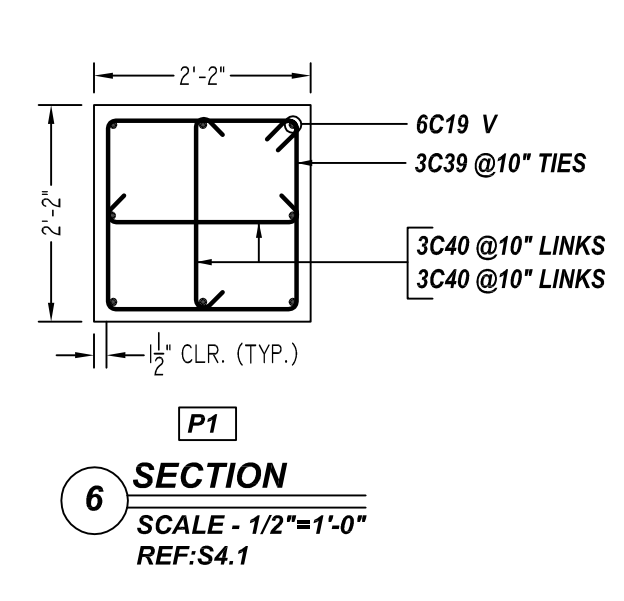
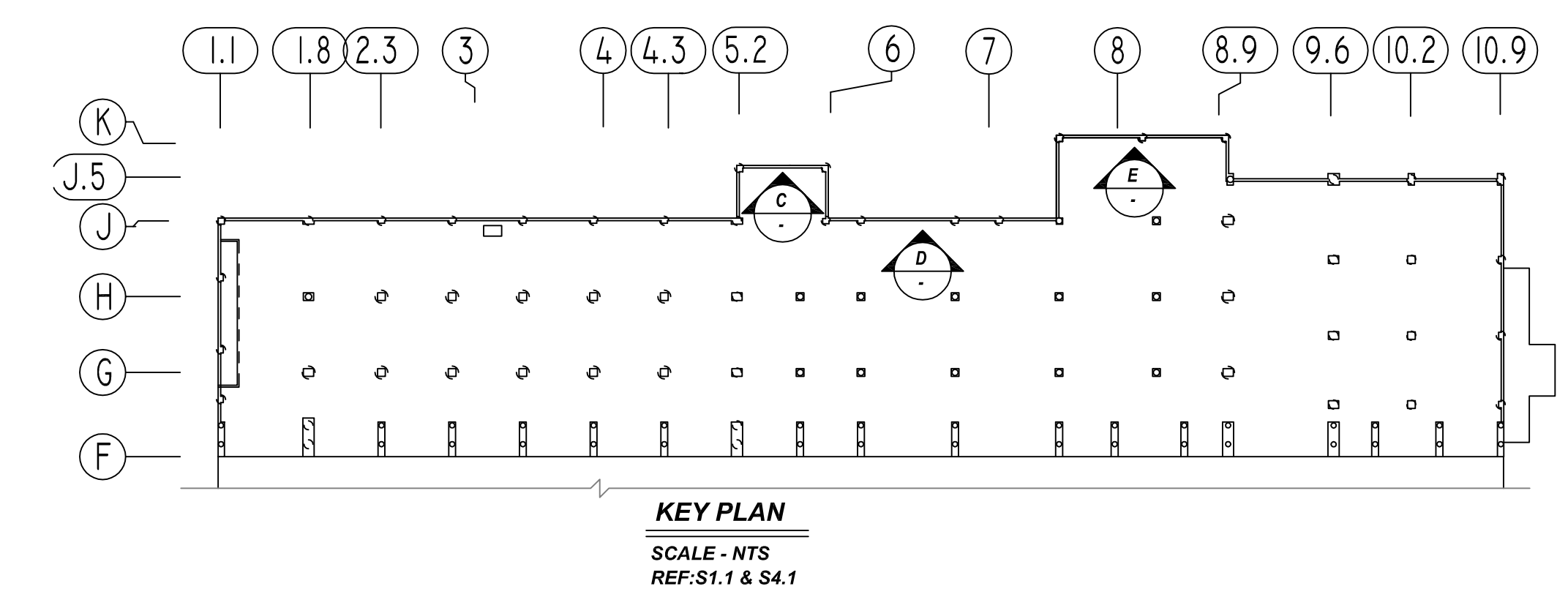
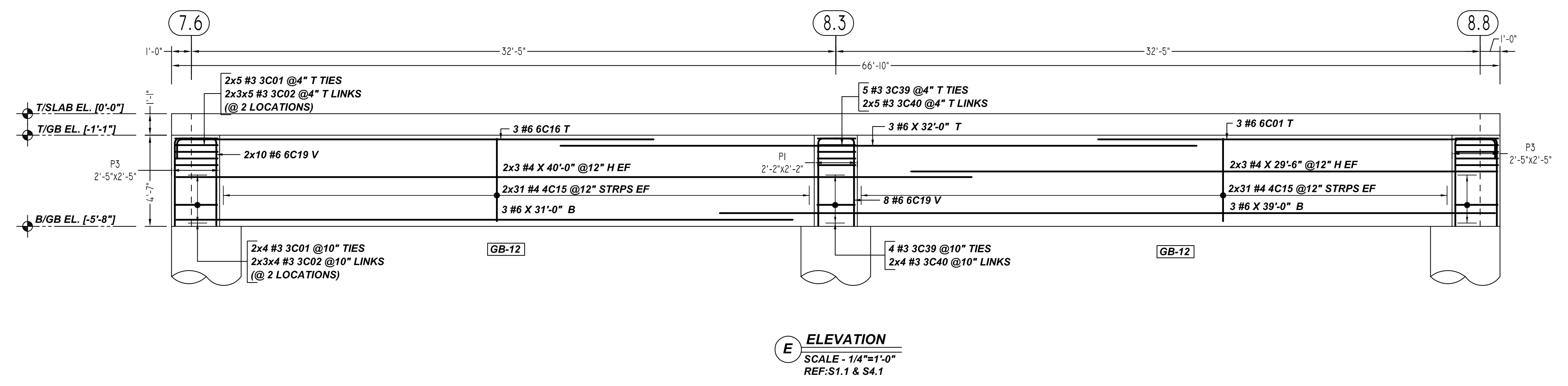
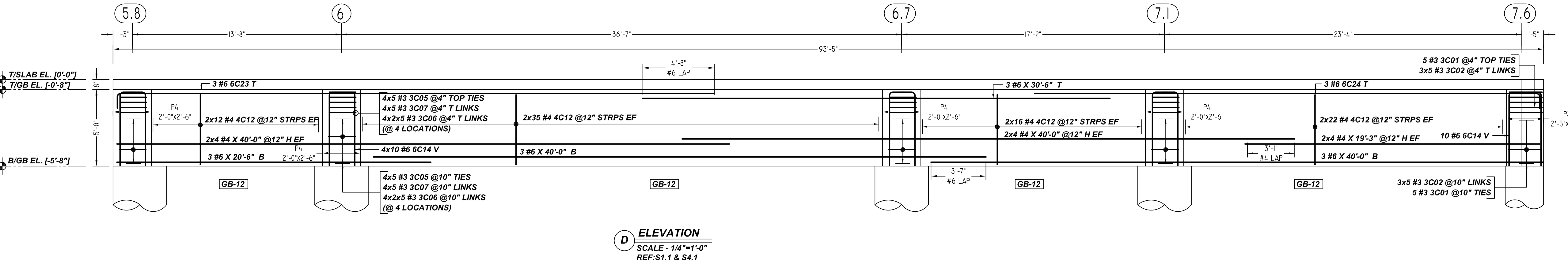
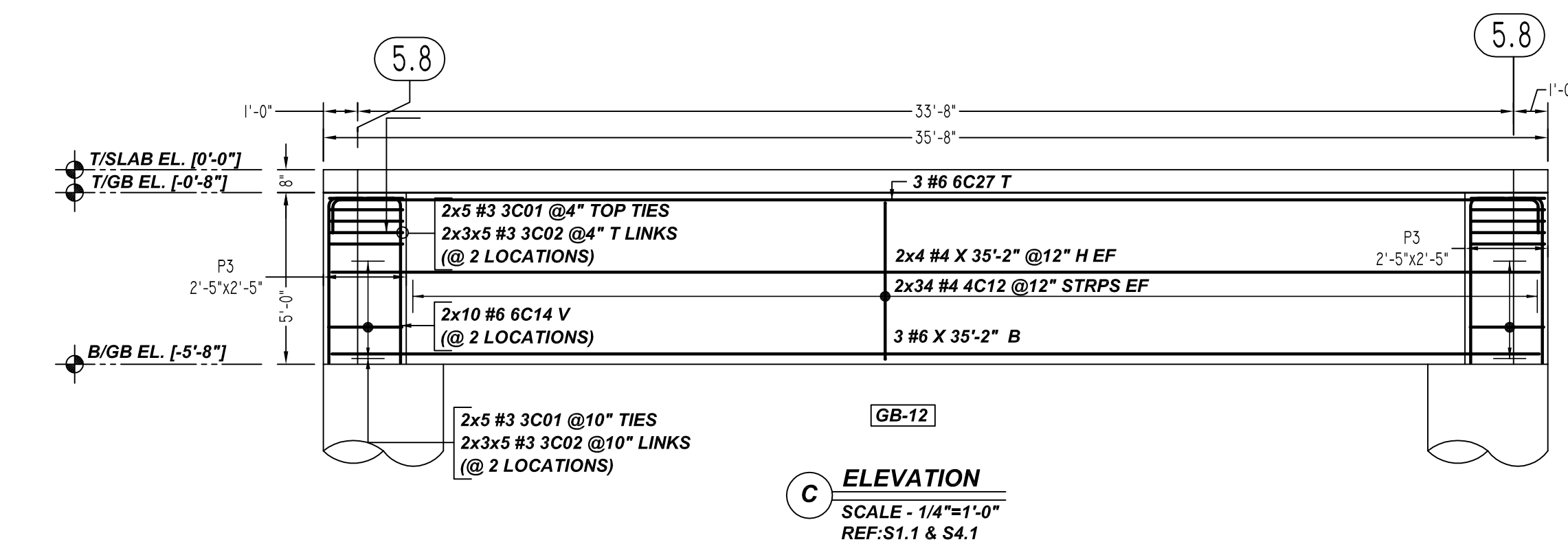
**ALL BARS IN THIS DRAWING
ASTM A615 GRADE 60
BLACK UNCOATED**



GRADE BEAM REINFORCEMENT DETAILS
SCALE - NTS
REF: S1.1 & S4.1

aSa
APPLIED SYSTEMS ASSOCIATES, INC.
5270 LOGAN FERRY RD
MURRYSVILLE, PA 15068
PHONE: (412) 753-8700
FAX: (412) 325-5553

GRADE	60 A615	PRINT RECORD		PRAIRIE DOG PROCESSING	
PREFIX		NO.	TO	FOR	DATE
BAR LIST NOS.					
MK	REVISION	DATE			
0	FOR APPROVAL	08/05/21			
ARCHT. PRIMUS BUILDERS, INC.					
ENGR. ANTHONY D. OOTEN, P.E.					
DRAWN	CHECKED	DATE	CONTR. NO.	DWG. NO.	
MET/BCS	BCS	08/05/2021	A1-2117	R3.001	



Release Number: R3.003

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'
3C01	48	#3	9'-5"	T1	0'-4 1/2"	2'-2"	2'-2"	2'-2"	2'-2"	0'-4 1/2"																				
3C02	144	#3	2'-10 1/2"	T12	0'-4"	2'-2"	2'-2"	2'-2"	0'-4"																					
3C05	40	#3	8'-9"	T1	0'-4 1/2"	1'-5"	2'-3"	1'-9"	2'-3"	0'-4 1/2"																				
3C06	80	#3	2'-5"	T12	0'-4"	1'-9"	2'-3"	1'-9"	2'-3"	0'-4"																				
3C07	40	#3	2'-11"	T12	0'-4"	2'-3"	2'-3"	2'-3"	0'-4"																					
3C39	9	#3	8'-5"	T1	0'-4 1/2"	1'-11"	1'-11"	1'-11"	1'-11"	0'-4 1/2"																				
3C40	18	#3	2'-7"	T12	0'-4"	1'-11"	1'-11"	1'-11"	0'-4"																					
4C12	238	#4	11'-3"	T1	0'-4 1/2"	0'-8"	4'-7"	0'-8"	4'-7"	0'-4 1/2"																				
4C15	124	#4	10'-5"	T1	0'-4 1/2"	0'-8"	4'-7"	0'-8"	4'-7"	0'-4 1/2"																				
6C01	3	#6	21'-0"	2	1'-0"	20'-0"																								
6C14	78	#6	5'-10"	2	1'-0"	4'-10"																								
6C16	3	#6	25'-0"	2	1'-0"	24'-0"																								
6C19	28	#6	5'-5"	2	1'-0"	4'-5"																								
6C23	3	#6	40'-0"	2	1'-0"	39'-0"																								
6C24	3	#6	34'-0"	2	1'-0"	33'-0"																								
6C27	3	#6	37'-2"	2	1'-0"	35'-2"																								

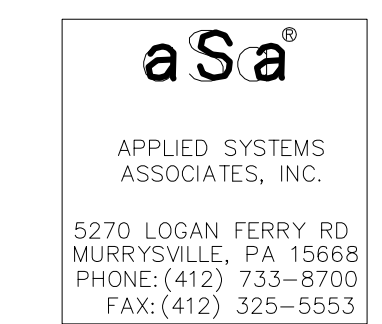
**ALL BARS IN THIS DRAWING
ASTM A615 GRADE 60
BLACK UNCOATED**

TYPICAL REINFORCING BAR CLEARANCE TABLE

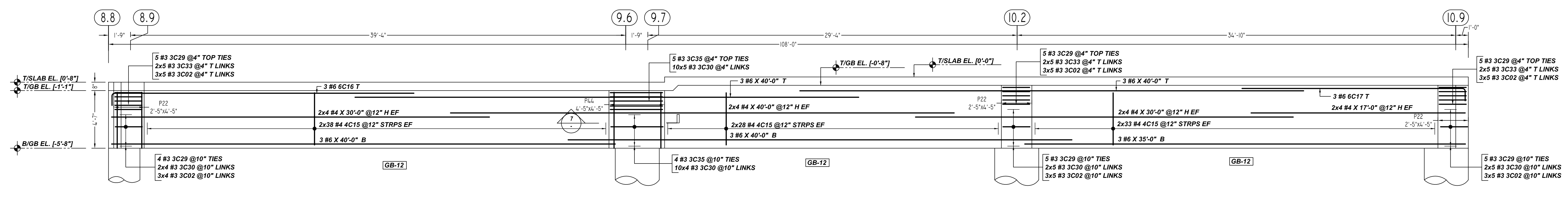
LOCATION	MIN. COVER
GRADE BEAM TOP & SIDE	2" CLR
GRADE BEAM BOTTOM	3" CLR

LAP SCHEDULE

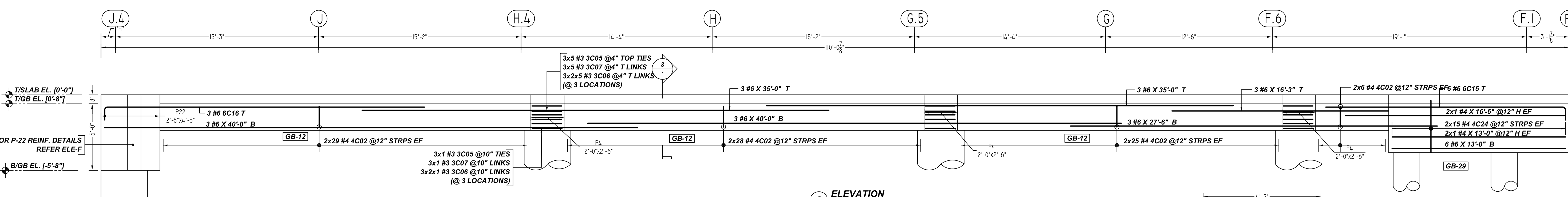
SIZE	3000 PSI	
	TOP	OTHERS
#3	28"	22"
#4	37"	29"
#5	47"	36"
#6	56"	43"
#7	81"	63"
#8	93"	72"
#9	105"	81"
#10	118"	91"
#11	131"	101"



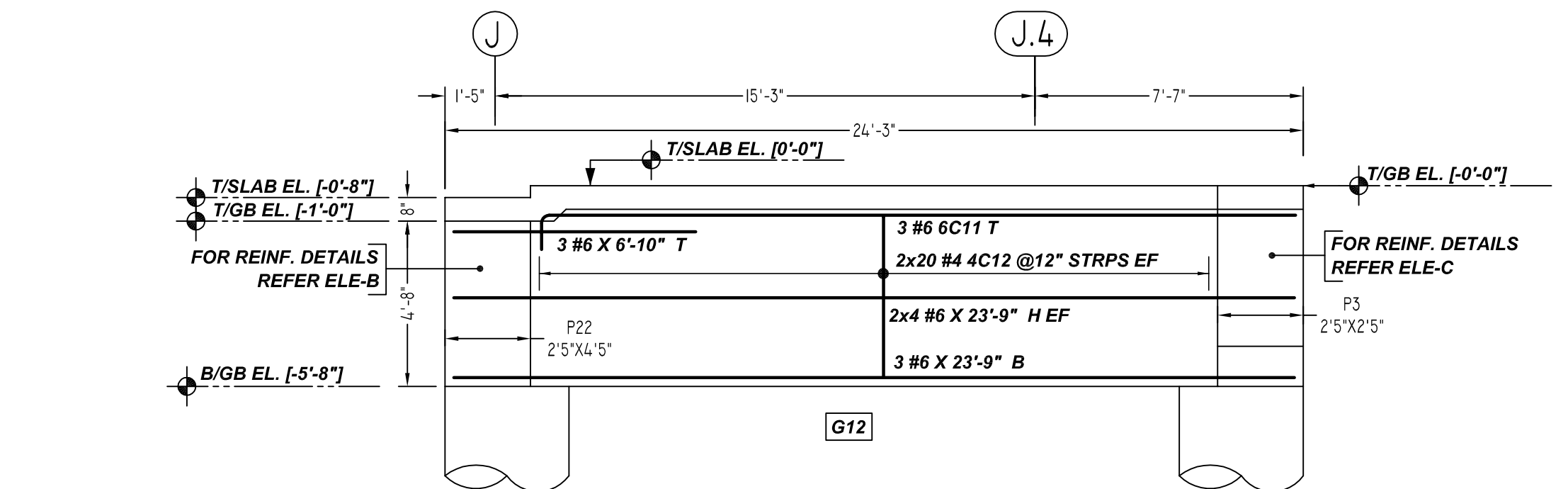
GRADE	60 A615	PRINT RECORD		PRAIRIE DOG PROCESSING	
PREFIX		NO.	TO	FOR	DATE
BAR LIST NOS.					
MK	REVISION	DATE			
0	FOR APPROVAL	08/05/21			
ARCHT. PRIMUS BUILDERS, INC.					
ENGR. ANTHONY D. OOTEN, P.E.					
DRAWN CHECKED DATE CONTR. NO. DWG. NO.					
MET/BCS BCS 08/05/2021 A1-2117 R3.003					



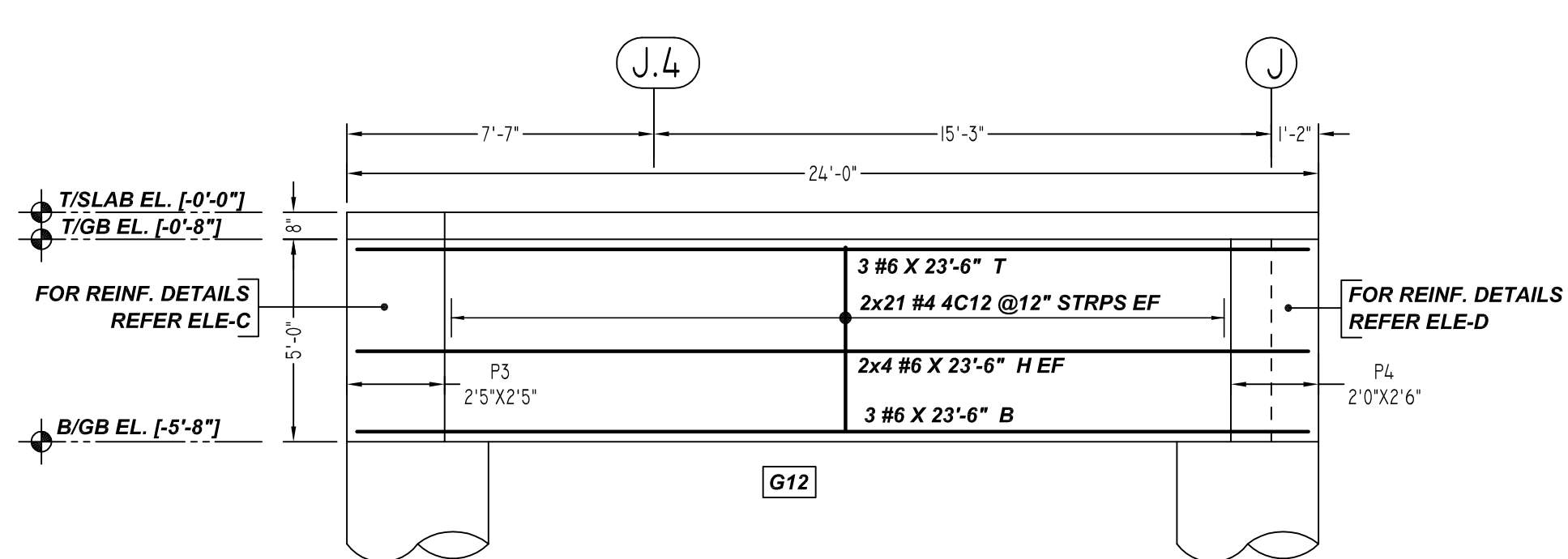
F ELEVATION
SCALE - 1/4"=1'-0"
REF: S1.1 & S4.1



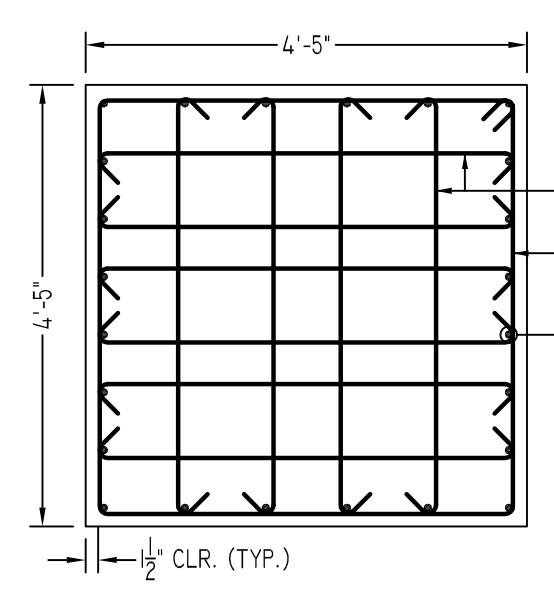
G ELEVATION
SCALE - 1/4"=1'-0"
REF: S1.1 & S4.1



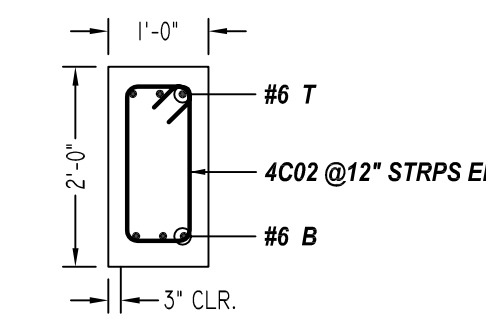
H ELEVATION
SCALE - 1/4"=1'-0"
REF: S1.1 & S4.1



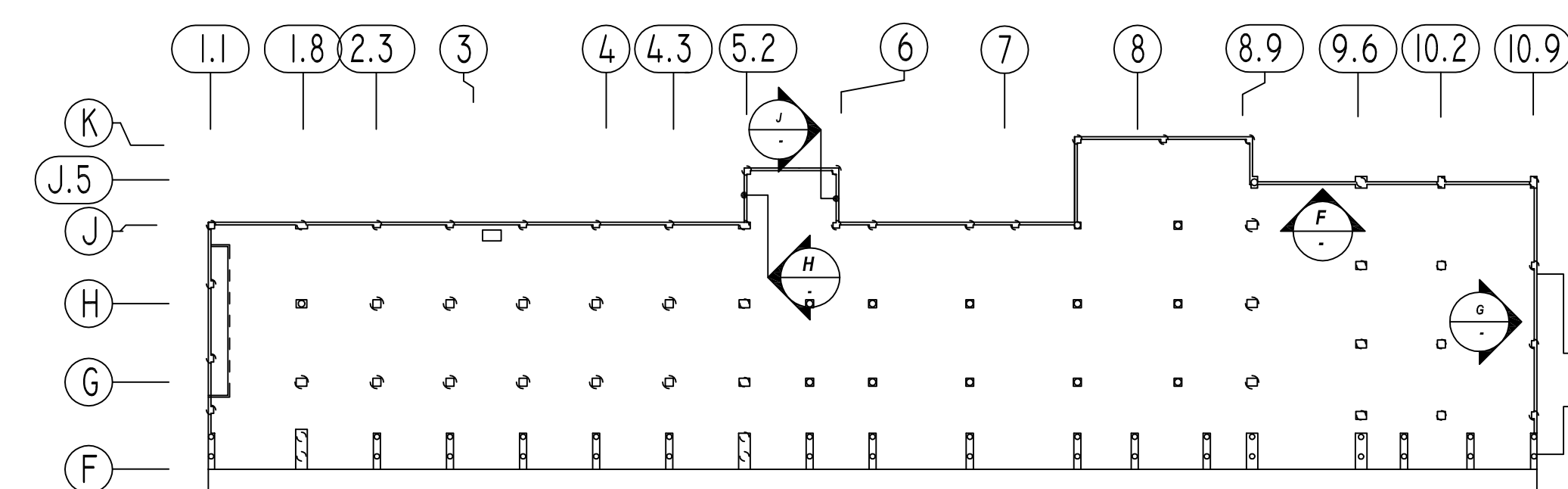
J ELEVATION
SCALE - 1/4"=1'-0"
REF: S1.1 & S4.1



7 SECTION
SCALE - 1/2"=1'-0"
REF: S4.1



8 SECTION
SCALE - 1/2"=1'-0"
REF: S4.1



KEY PLAN
SCALE - NTS
REF: S1.1 & S4.1

Release Number: 63.004

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'	
3002	87	#3	2'-10"	T12	0'-4"	2'-2"																									
3005	18	#3	8'-9"	T11	0'-4 1/2"	1'-9"	2'-3"	1'-9"	2'-3"																						
3006	36	#3	2'-5"	T12	0'-4"	1'-9"																									
3007	18	#3	2'-11"	T12	0'-4"	2'-3"																									
3C29	29	#3	13'-5"	T11	0'-4 1/2"	2'-2"	4'-2"	2'-2"	4'-2"																						
3C30	116	#3	4'-11"	T12	0'-4 1/2"	4'-2"																									
3C33	30	#3	4'-10"	T12	0'-4"	4'-2"																									
3C35	9	#3	17'-5"	T11	0'-4 1/2"	4'-2"	4'-2"	4'-2"	4'-2"																						
4C02	176	#4	5'-3"	T11	0'-4 1/2"	0'-8"	1'-7"	0'-8"	1'-7"																						
4C12	82	#4	11'-3"	T11	0'-4 1/2"	0'-8"	4'-7"	0'-8"	4'-7"																						
4C15	188	#4	10'-5"	T11	0'-4 1/2"	0'-8"	4'-2"	0'-8"	4'-2"																						
4C24	30	#4	12'-9"	T11	0'-4 1/2"	2'-1"	3'-11"	2'-1"	3'-11"																						
6C11	3	#6	22'-4"	2	1'-0"	21'-4"																									
6C15	6	#6	19'-0"	2	1'-0"	18'-0"																									
6C16	6	#6	25'-0"	2	1'-0"	24'-0"																									
6C17	3	#6	18'-9"	2	1'-0"	17'-9"																									

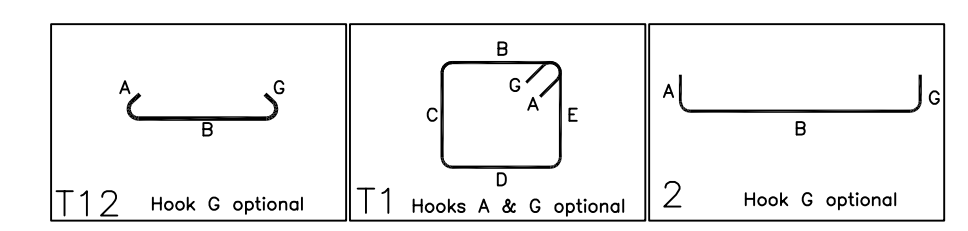
**ALL BARS IN THIS DRAWING
ASTM A615 GRADE 60
BLACK UNCOATED**

TYPICAL REINFORCING BAR CLEARANCE TABLE

LOCATION	MIN. COVER
GRADE BEAM TOP & SIDE	2" CLR
GRADE BEAM BOTTOM	3" CLR

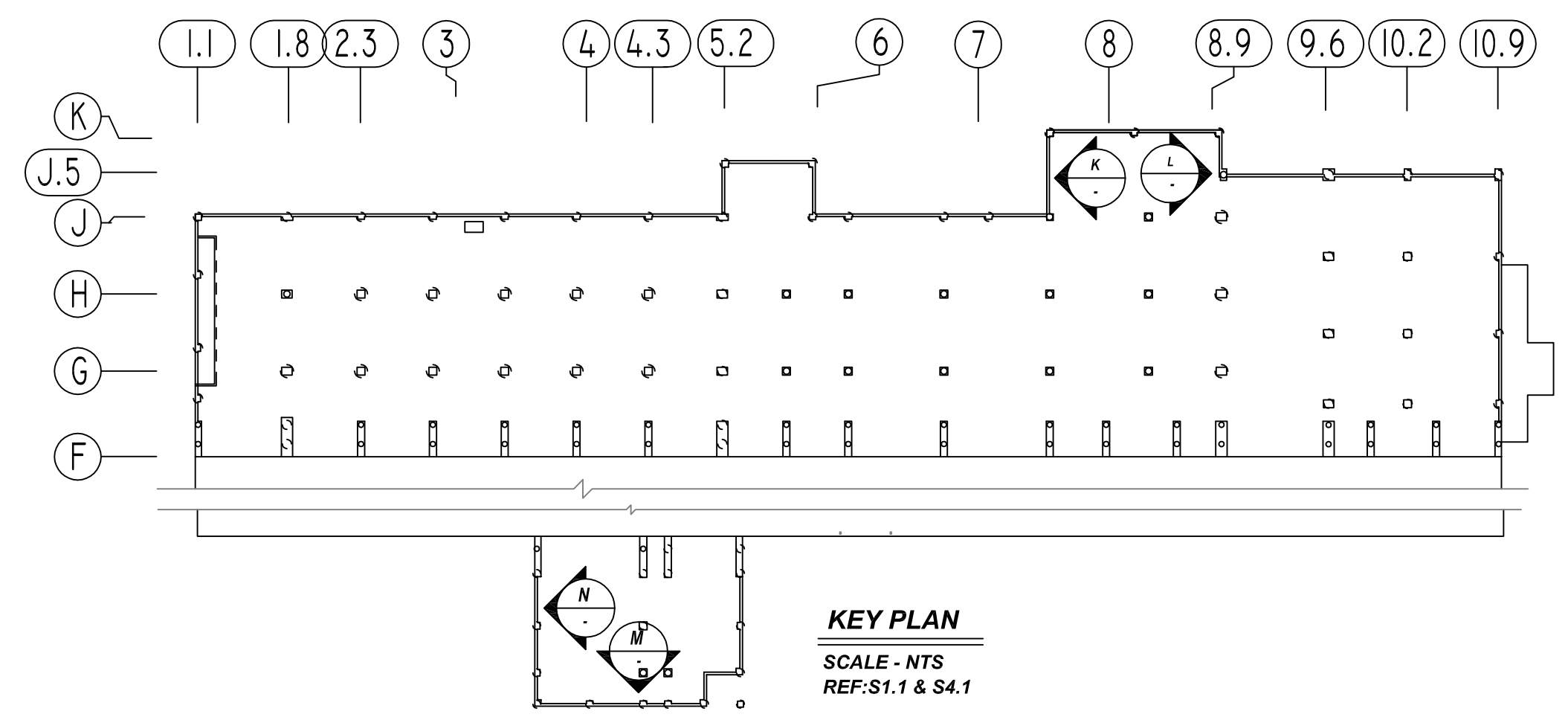
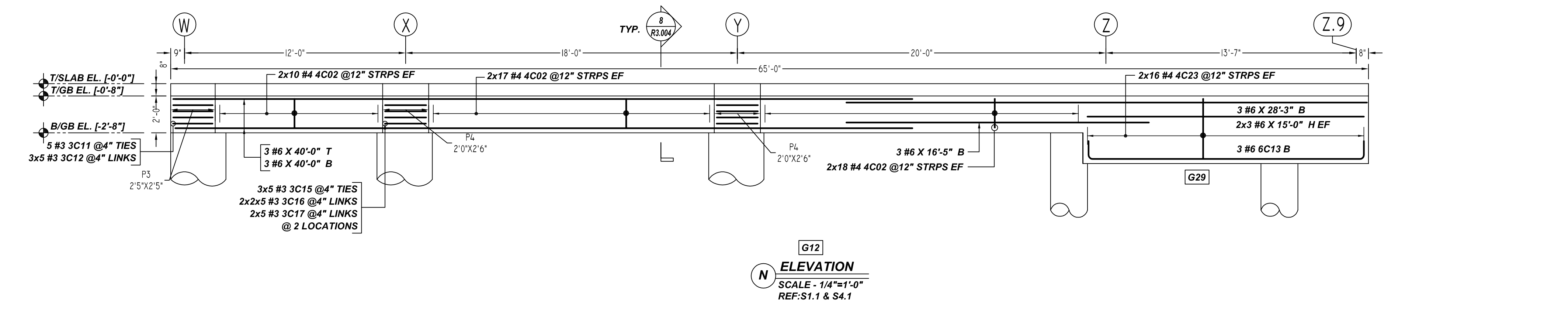
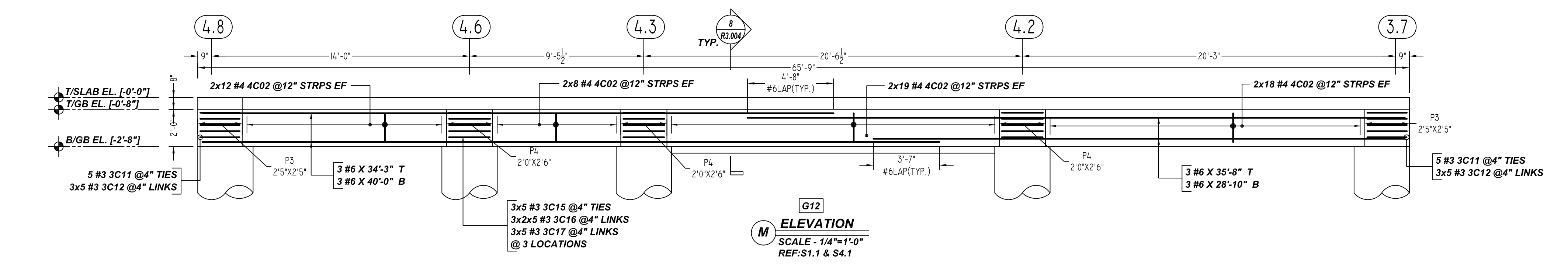
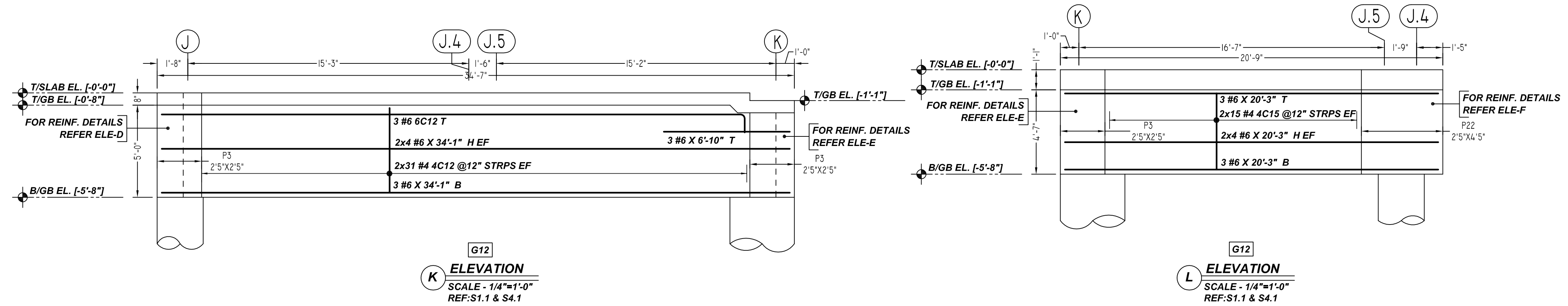
LAP SCHEDULE

SIZE	3000 PSI	
	TOP	OTHERS
#3	28"	22"
#4	37"	29"
#5	47"	36"
#6	56"	43"
#7	81"	63"
#8	93"	72"
#9	105"	81"
#10	118"	91"
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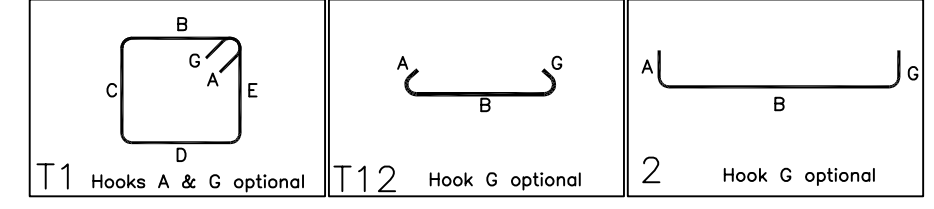
aSa
APPLIED SYSTEMS
ASSOCIATES, INC.
5270 LOGAN FERRY RD
MURRYSVILLE, PA 15668
PHONE: (412) 733-8700
FAX: (412) 325-5553

GRADE	60 A615		
PREFIX			
BAR LIST NOS.			
MK	REVISION	DATE	PRINT RECORD
0	FOR APPROVAL	08/05/21	NO. TO FOR DATE
PRAIRIE DOG PROCESSING ABILENE, TX 79603 GRADE BEAM REINFORCEMENT DETAILS CUSTOMER BONTKE BROTHERS ARCHT. PRIMUS BUILDERS, INC. ENGR. ANTHONY D. OOTEN, P.E. DRAWN CHECKED DATE CONTR. NO. DWG. NO. MET/BCS BCS 08/05/2021 A1-2117 R3.004			



Release Number: R3.005

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'
3C11	15	#3	9'-4 1/2"	T1	0'-4 1/2"	2'-2"	2'-2"	2'-2"	2'-2"	0'-4 1/2"																				
3C12	45	#3	2'-10 1/2"	T12	0'-4 1/2"	2'-2"	2'-2"	2'-2"	2'-2"	0'-4 1/2"																				
3C15	30	#3	8'-8 1/2"	T1	0'-4 1/2"	1'-9"	2'-3"	1'-9"	2'-3"	0'-4 1/2"																				
3C16	50	#3	2'-5 1/2"	T12	0'-4 1/2"	1'-9"	2'-3"	1'-9"	2'-3"	0'-4 1/2"																				
3C17	25	#3	2'-11 1/2"	T12	0'-4 1/2"	2'-3"	2'-3"	2'-3"	2'-3"	0'-4 1/2"																				
4C02	204	#4	5'-3"	T1	0'-4 1/2"	0'-8"	1'-7"	0'-8"	1'-7"	0'-4 1/2"																				
4C12	62	#4	11'-3"	T1	0'-4 1/2"	0'-8"	4'-7"	0'-8"	4'-7"	0'-4 1/2"																				
4C15	30	#4	10'-5"	T1	0'-4 1/2"	0'-8"	4'-7"	0'-8"	4'-7"	0'-4 1/2"																				
4C23	32	#4	11'-5"	T1	0'-4 1/2"	2'-1"	3'-5"	2'-1"	3'-5"	0'-4 1/2"																				
6C12	3	#6	32'-8"	2	1'-0"	31'-8"																								
6C13	3	#6	17'-0"	2	1'-0"	15'-0"																								



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

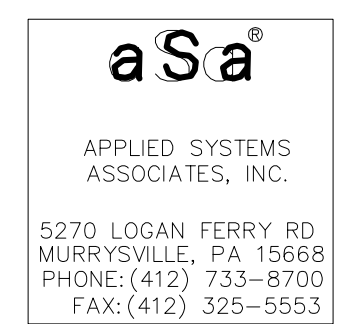
A/E PLEASE VERIFY COVER DETAILS

LOCATION	MIN. COVER
GRADE BEAM TOP & SIDE	2" CLR
GRADE BEAM BOTTOM	3" CLR

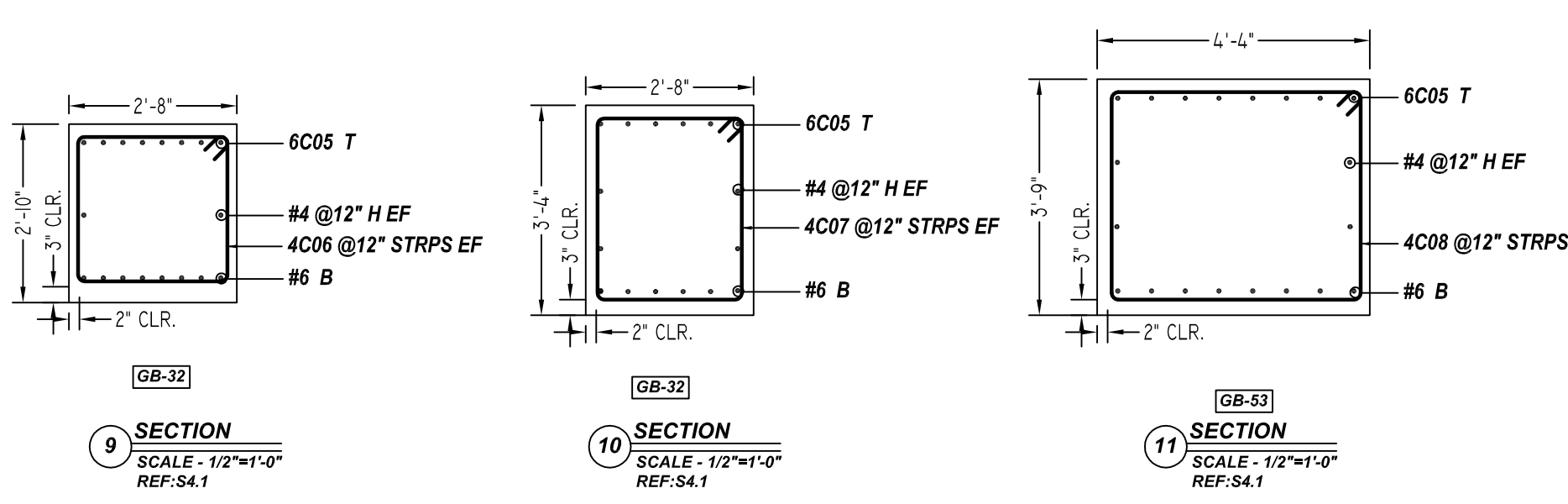
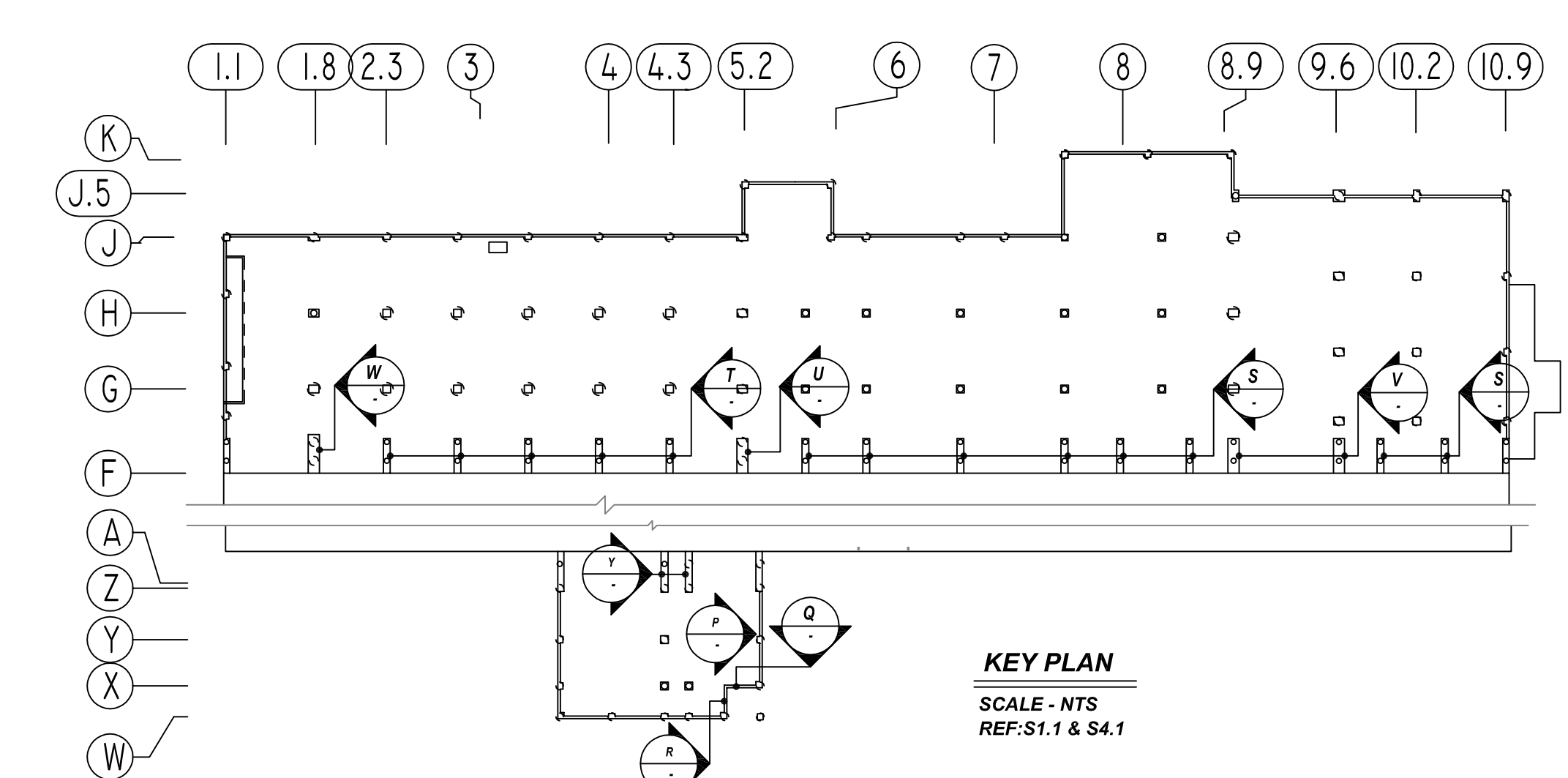
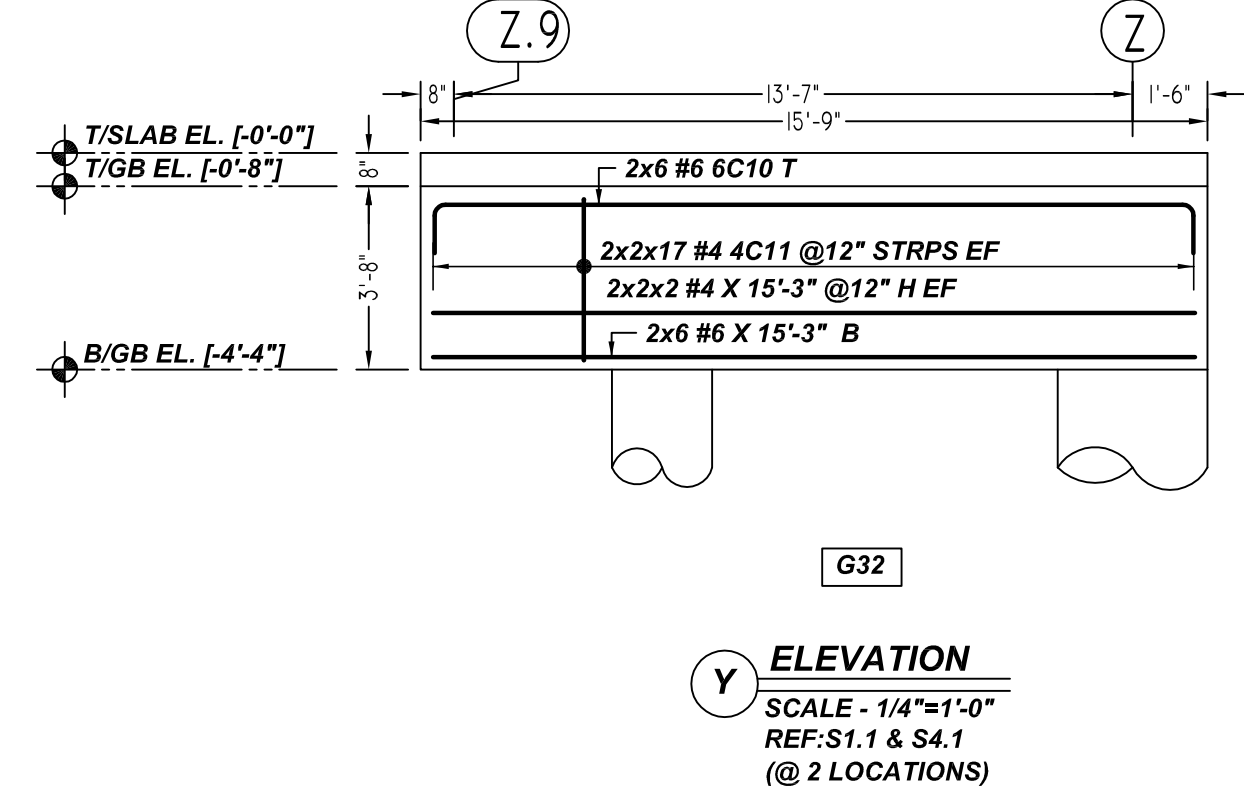
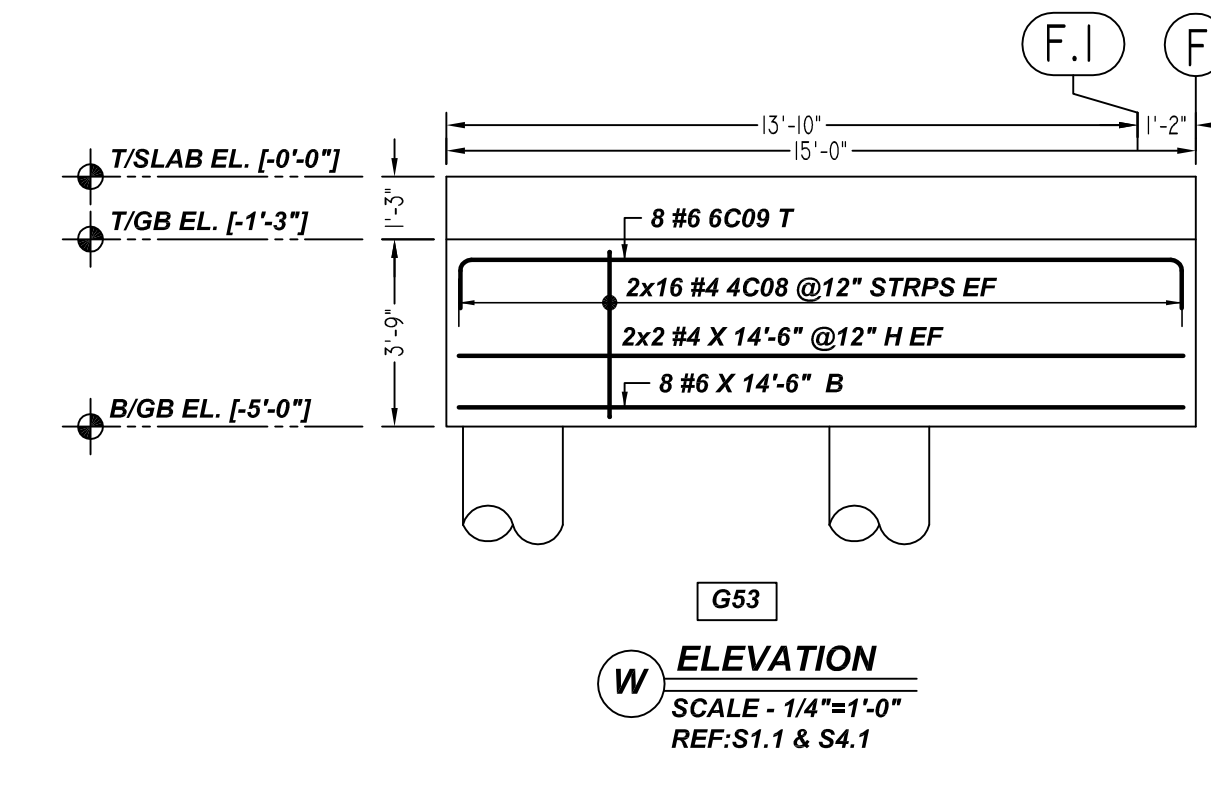
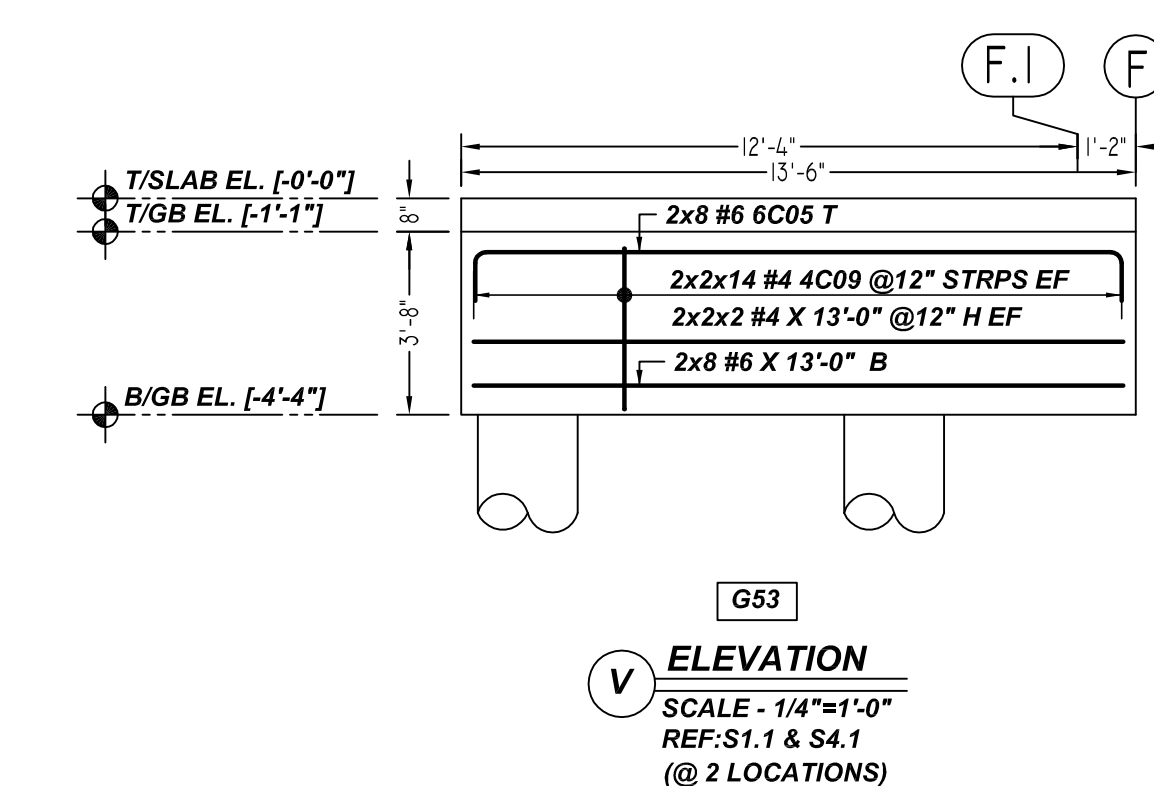
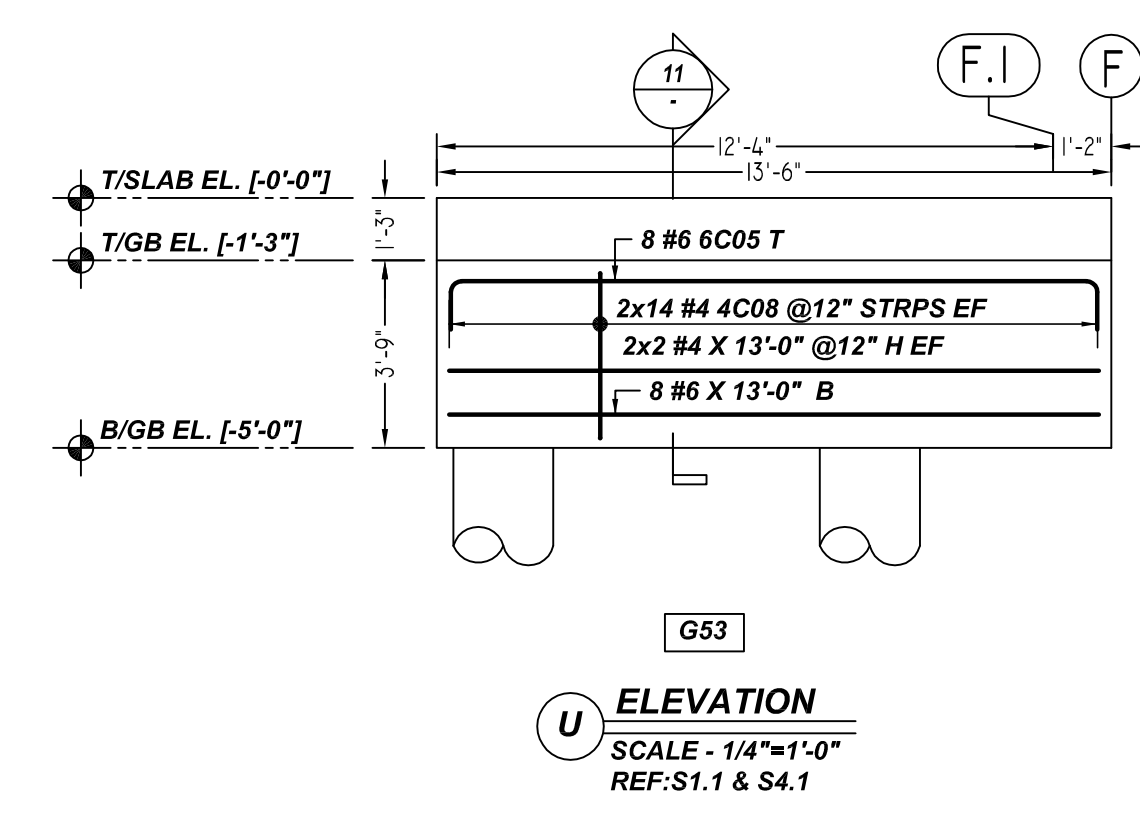
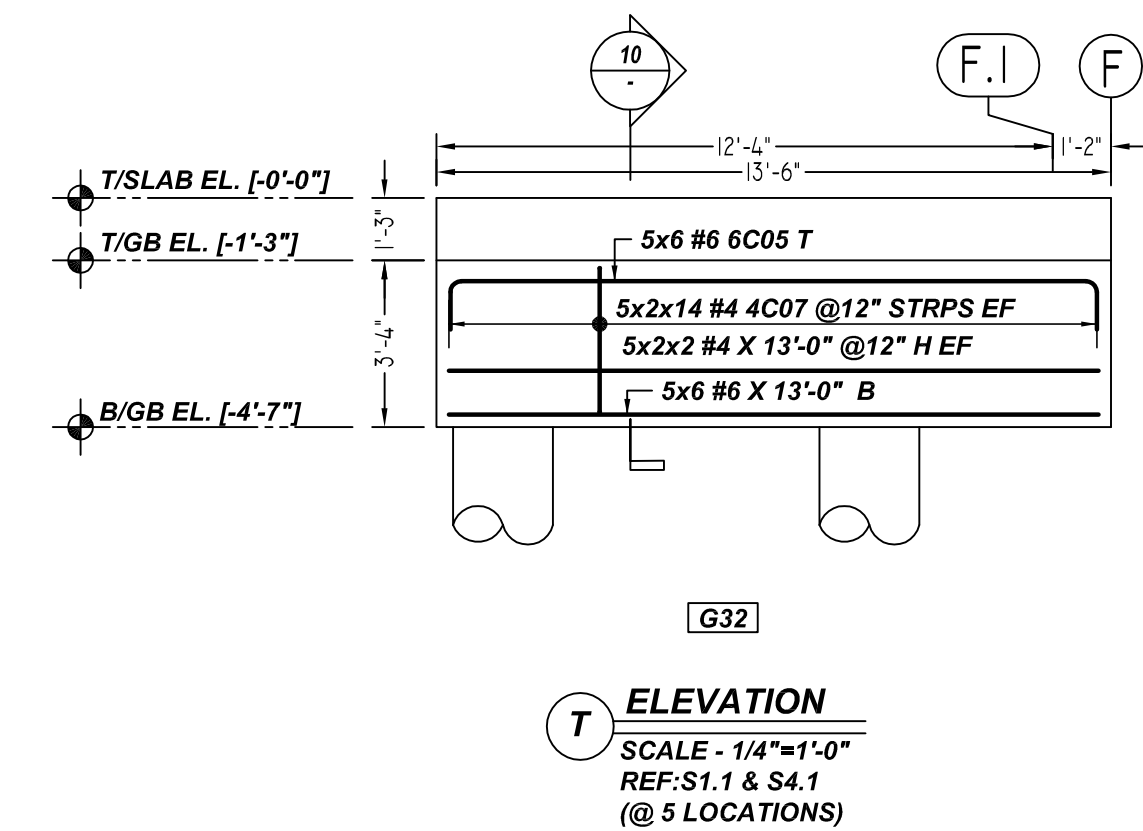
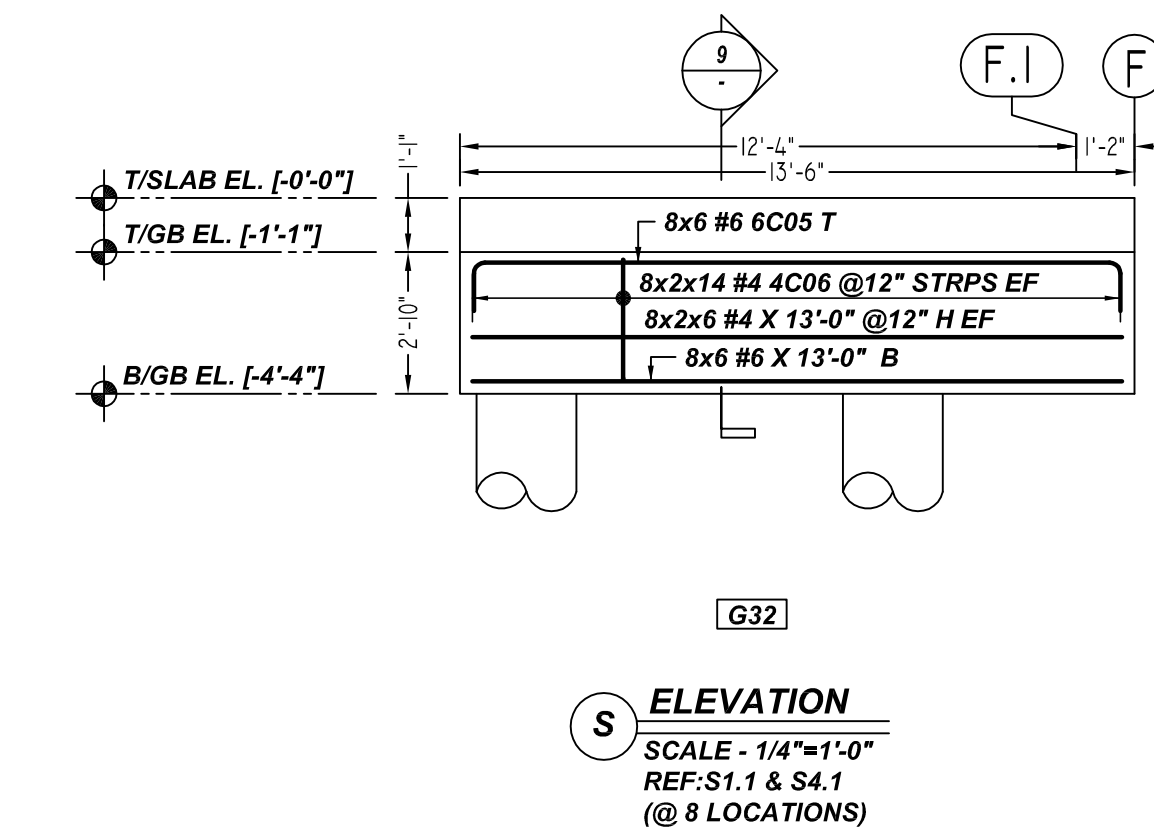
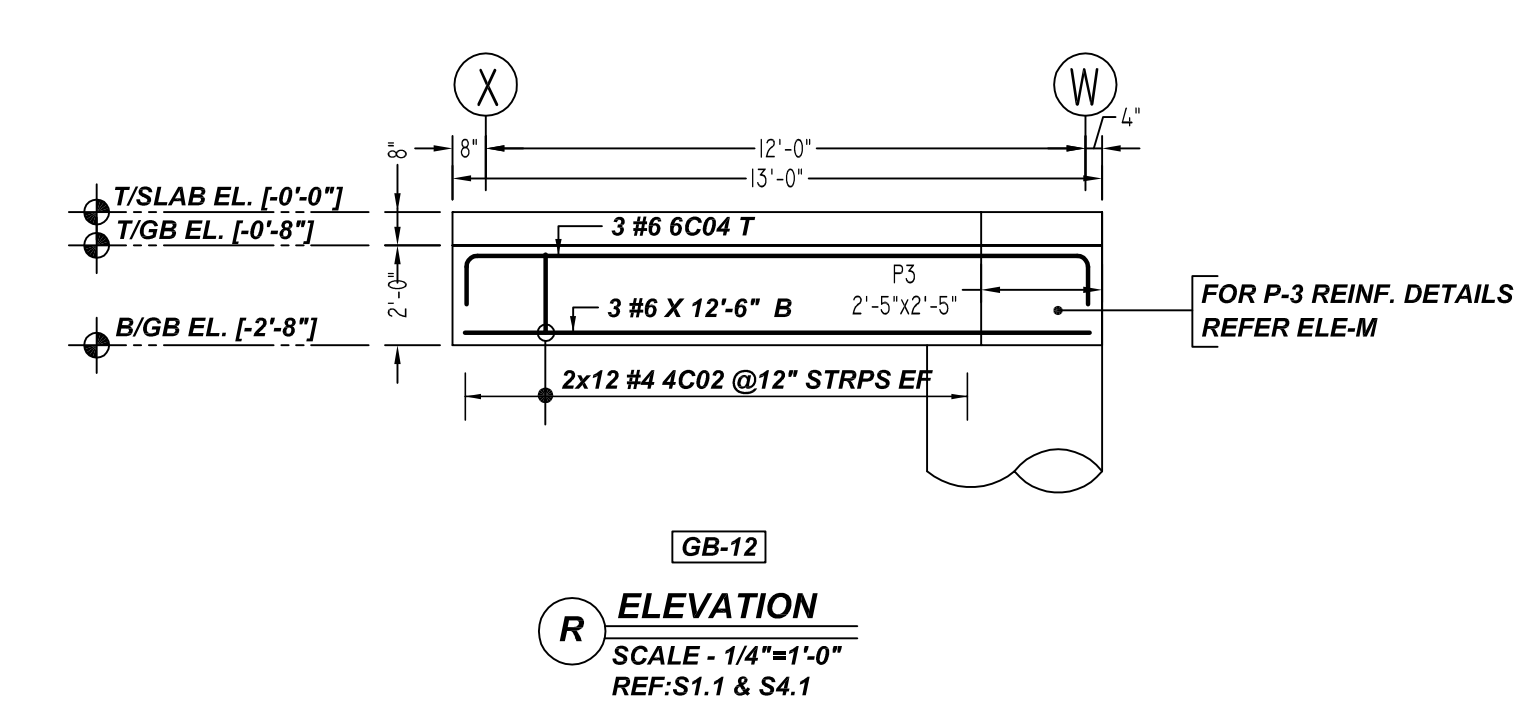
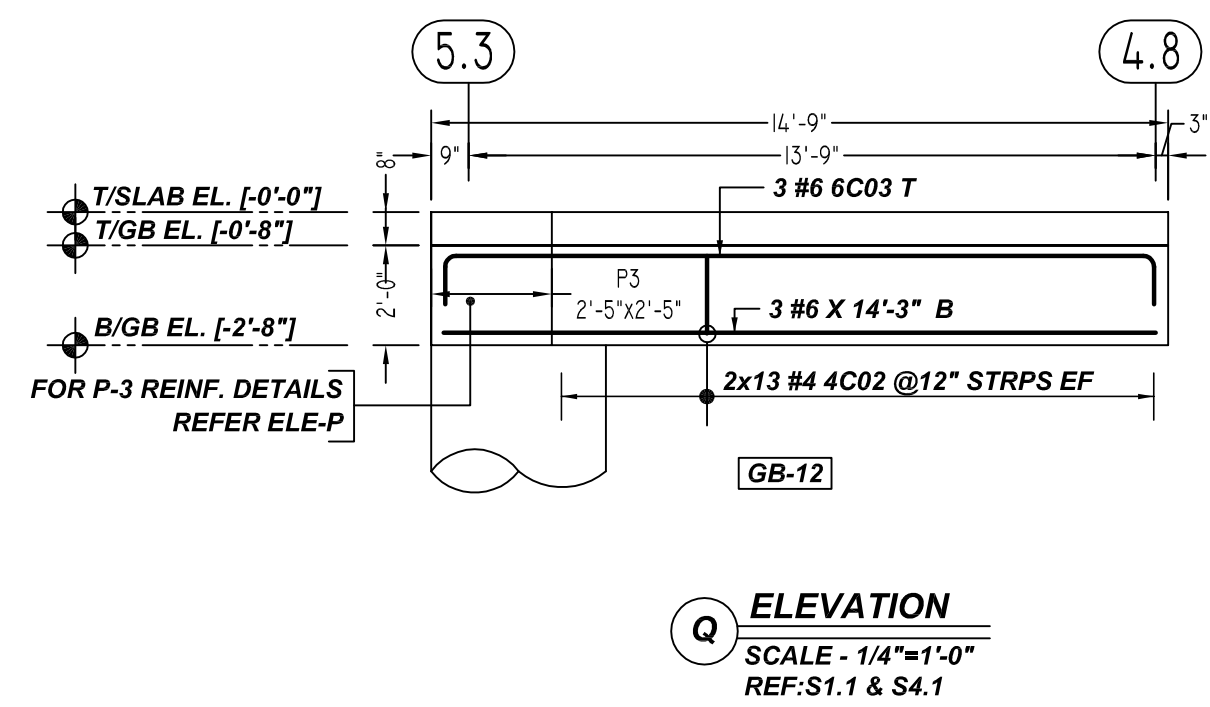
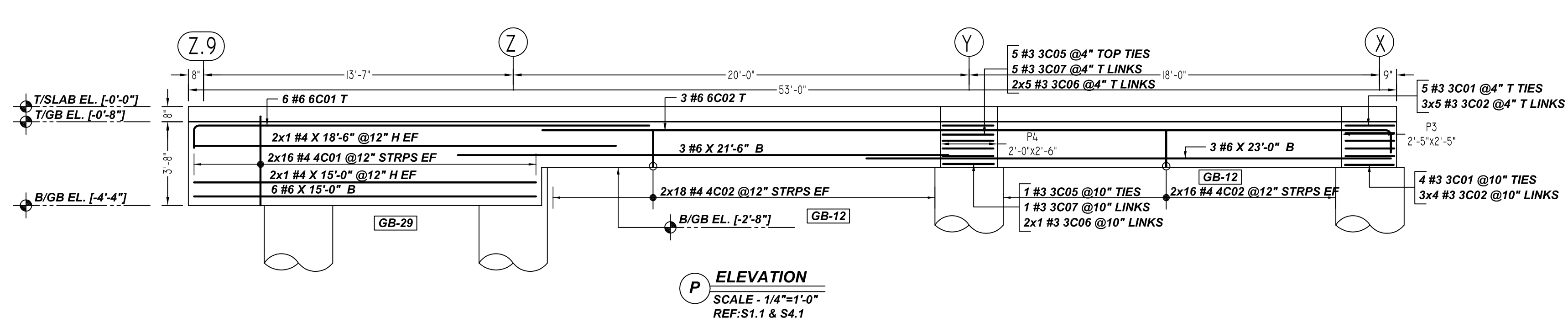
A/E PLEASE VERIFY LAP VALUE

LAP SCHEDULE

SIZE	3000 PSI	
	TOP	OTHERS
#3	28"	22"
#4	37"	29"
#5	47"	36"
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GRADE	60 A615	PRINT RECORD		PRAIRIE DOG PROCESSING	
PREFIX		NO.	TO	FOR	DATE
BAR LIST NOS.					
MK	REVISION	DATE			
0	FOR APPROVAL	08/05/21			
ARCHT. PRIMUS BUILDERS, INC.					
ENGR. ANTHONY D. OOTEN, P.E.					
DRAWN	CHECKED	DATE	CONTR. NO.	DWG. NO.	
MET/BCS	BCS	08/05/2021	A1-2117	R3.005	



Release Number: R3.006

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'
3001	9	#3	9'-5"	T1	0'-4"	2'-2"	2'-2"	2'-2"	0'-4"																					
3002	27	#3	2'-10"	T12	0'-4"	2'-2"			0'-4"																					
3005	4	#3	8'-9"	T1	0'-4"	1'-9"	2'-3"	1'-9"	2'-3"	0'-4"																				
3006	12	#3	2'-5"	T12	0'-4"	1'-9"	2'-3"	1'-9"	2'-3"	0'-4"																				
3007	6	#3	2'-11"	T12	0'-4"	2'-3"			0'-4"																					
4001	32	#4	9'-11"	T1	0'-4"	0'-8"	3'-11"	0'-8"	3'-11"	0'-4"																				
4002	118	#4	5'-3"	T1	0'-4"	0'-8"	1'-7"	0'-8"	1'-7"	0'-4"																				
4006	224	#4	10'-3"	T1	0'-4"	2'-4"	2'-5"	2'-4"	2'-5"	0'-4"																				
4007	140	#4	11'-3"	T1	0'-4"	2'-4"	2'-11"	2'-4"	2'-11"	0'-4"																				
4008	60	#4	15'-5"	T1	0'-4"	3'-4"	4'-0"	3'-4"	4'-0"	0'-4"																				
4009	58	#4	15'-5"	T1	0'-4"	3'-5"	4'-0"	3'-5"	4'-0"	0'-4"																				
4011	68	#4	11'-4"	T1	0'-4"	2'-4"	2'-4"	3'-5"	2'-4"	0'-4"																				
6001	6	#6	21'-0"	2	1'-0"	20'-0"																								
6002	3	#6	38'-5"	2	1'-0"	37'-5"																								
6003	3	#6	16'-3"	2	1'-0"	14'-3"																								
6004	3	#6	14'-6"	2	1'-0"	12'-6"																								
6005	102	#6	15'-0"	2	1'-0"	13'-0"																								
6009	8	#6	16'-6"	2	1'-0"	14'-6"																								
6010	12	#6	17'-3"	2	1'-0"	15'-3"																								

TYPICAL REINFORCING BAR CLEARANCE TABLE

LOCATION	MIN. COVER
GRADE BEAM TOP & SIDE	2" CLR
GRADE BEAM BOTTOM	3" CLR

LAP SCHEDULE

SIZE	3000 PSI	
	TOP	OTHERS
#3	28"	22"
#4	37"	29"
#5	47"	36"
#6	56"	43"
#7	81"	63"
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aSa
APPLIED SYSTEMS ASSOCIATES, INC.
5270 LOGAN FERRY RD
MURRYSVILLE, PA 15668
PHONE: (412) 753-8700
FAX: (412) 325-5553

GRADE	60 A615	PRINT RECORD		NO.		TO		FOR		DATE	
PREFIX											
BAR LIST NOS.											
MK	REVISION	DATE									
0	FOR APPROVAL	08/05/21									
PRAIRIE DOG PROCESSING ABILENE, TX 79603 GRADE BEAM REINFORCEMENT DETAILS CUSTOMER BONTKE BROTHERS ARCHT. PRIMUS BUILDERS, INC. ENGR. ANTHONY D. OOTEN, P.E.											
DRAWN	CHECKED	DATE	CONTR. NO.	DWG. NO.							
MET/BCS	BCS	08/05/2021	A1-2117	R3.006							