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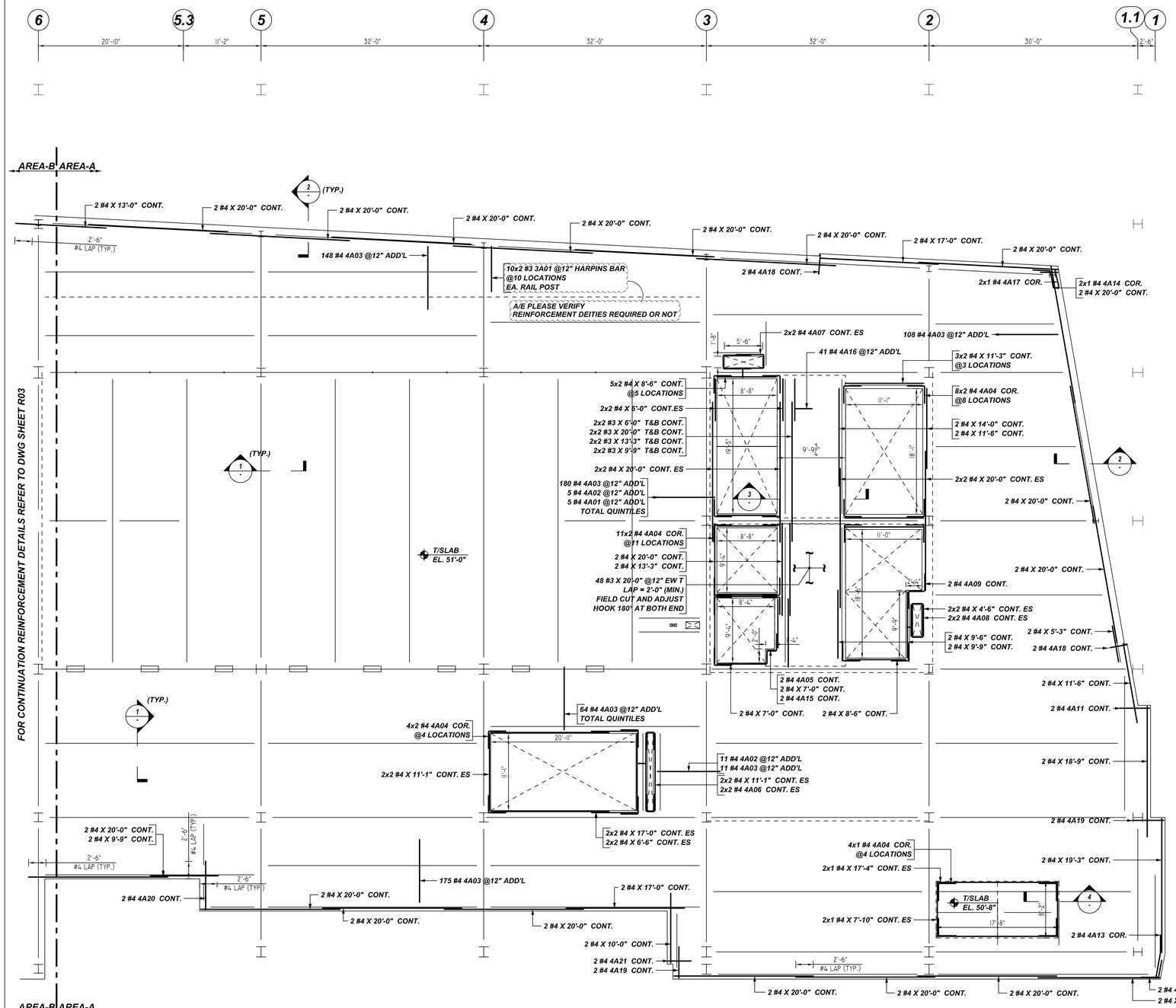
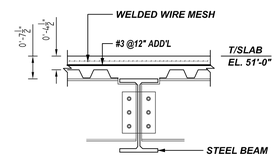
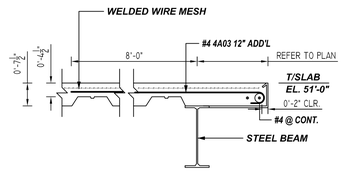




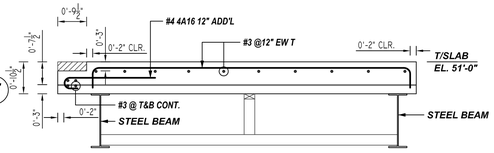
(DECK PARALLEL & PERPENDICULAR TO COMPOSITE BEAM & GIRDER)

1 SECTION
REF: S4.0.1
SCALE: 1/2" = 1'-0"



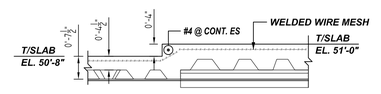
(DECK PARALLEL & PERPENDICULAR TO E.O.S.)

2 SECTION
REF: S4.0.1
SCALE: 1/2" = 1'-0"



(COMPOSITE DECK TRANSITION AT SOUTH ELEVATOR LOBBY)

3 SECTION
REF: S4.2.8
SCALE: 1/2" = 1'-0"



(SLAB DEPRESSION IN DECK SLAB)

4 SECTION
REF: S4.0.4
SCALE: 1/2" = 1'-0"

A/E PLEASE VERIFY LAP VALUE (TYP.)

LAP SCHEDULE

4000 PSI (CLASS-B) CASE - 1
Per ACI :318 (12.2.2)

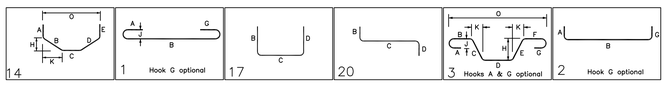
BAR#	LENGTHS TOP	LENGTHS OTHERS
#3	2'-0"	1'-7"
#4	2'-8"	2'-1"
#5	3'-4"	2'-7"
#6	4'-0"	3'-1"
#7	5'-10"	4'-6"
#8	6'-8"	5'-2"
#9	7'-7"	5'-10"
#10	8'-6"	6'-7"
#11	9'-5"	7'-3"

ALL TOP BARS ARE DEFINED AS HORIZ BARS WITH MORE THAN 12" OF CONCRETE BELOW BARS.

Release Number: R01

BENDING DETAILS

Bar Mark	Qty	Size	Total Length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'X'
3A01	20	#3	8'-11 K"	14		3'-11 K"	1'-0"	3'-11 K"				2'-11"		2'-8 K"	6'-5"	
4A01	5	#4	1'-8"	1	0'-6"	0'-8"					0'-6"		0'-4"			
4A02	16	#4	2'-3"	1	0'-6"	1'-3"					0'-6"		0'-4"			
4A03	686	#4	9'-4"	1	0'-6"	8'-10"							0'-4"			
4A04	50	#4	5'-0"	17		2'-6"	2'-6"									
4A05	2	#4	5'-9"	20		1'-3"	2'-0"	2'-6"								
4A06	4	#4	6'-2"	17		2'-6"	1'-2"	2'-6"								
4A07	4	#4	10'-0"	17		4'-0"	2'-0"	4'-0"								
4A08	4	#4	6'-7"	17		2'-6"	1'-7"	2'-6"								
4A09	2	#4	7'-4"	20		2'-6"	2'-4"	2'-6"								
4A11	2	#4	6'-9"	17		2'-6"	1'-3"									
4A12	2	#4	4'-11 K"	3		2'-6"	2'-5 K"						2'-5 K"		0'-5"	2'-11"
4A13	2	#4	6'-2 K"	3		2'-6"	3'-8 K"						0'-8 K"		3'-8"	6'-2"
4A14	2	#4	4'-11 K"	3		2'-6"	2'-5 K"						2'-5 K"		0'-6 K"	3'-0 K"
4A15	2	#4	5'-8"	17		1'-3"	2'-6"									
4A16	41	#4	1'-0"	1	0'-6"	2'-6"								0'-4"		
4A17	2	#4	5'-2"	2	0'-8"	2'-6"										
4A18	4	#4	5'-3"	17		2'-6"	2'-9"									
4A19	4	#4	7'-0"	17		2'-6"	4'-6"									
4A20	2	#4	9'-6"	17		2'-6"	7'-0"									
4A21	2	#4	5'-9"	17		2'-6"	3'-3"									



TYPICAL REINFORCING BAR CLEARANCE TABLE	
LOCATION	MIN. COVER
SLAB TOP & BOTTOM	2" CLR
SLAB EDGE	2" CLR

A/E PLEASE VERIFY COVER VALUE (TYP.)

LEVEL-2 AREA-A SLAB ON DECK REINFORCEMENT DETAILS

REF:S2.2.2A & S4.0.4
SCALE: 1/8" = 1'-0"

A/E PLEASE VERIFY FIELD CUT AND BAR ARRANGEMENT DETAILS (TYP.)

ALL BARS IN THIS DRAWING ASTM A615 GRADE 60 BLACK UNCOATED

REBAR GRADE 60 ASTM A-615

SPLICES USED

CLASS B 4,000 psi UNO

TOP BARS	OTHER BARS
#3 -	#3 -
#4 -	#4 -
#5 -	#5 -
#6 -	#6 -
#7 -	#7 -
#8 -	#8 -
#9 -	#9 -
#10 -	#10 -
#11 -	#11 -
#14 -	#14 -

ABBREVIATIONS

ADD. = Additional
B.O.W. = Bottom of wall
C.B. = Corner Bars
DIAG. = Diagonal
D.O. = Door Opening
DWLS. = Dowels
E.F. = Each Face
E.S. = Each Side
E.W. = Each Way
FTG. = Footing
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

BAR MARK SIZE EQUIVALENT

Imperial	Soft Metric
#3	#10
#4	#13
#5	#16
#6	#19
#7	#22
#8	#25
#9	#29
#10	#32
#11	#36

REV NO	DATE	SENT FOR	REV NO	DATE	SENT FOR
0	04.13.22	APPROVAL			

VIRGINIA TECH

LEVEL-2 AREA-A SLAB ON DECK REINFORCEMENT DETAILS
ALEXANDRIA, VIRGINIA

CUSTOMER: -
DESIGNER: A&F ENGINEERS

DRAWN BY	DATE	JOB NO	SHEET NO.
RAJ/MET	04.13.22	-	R01

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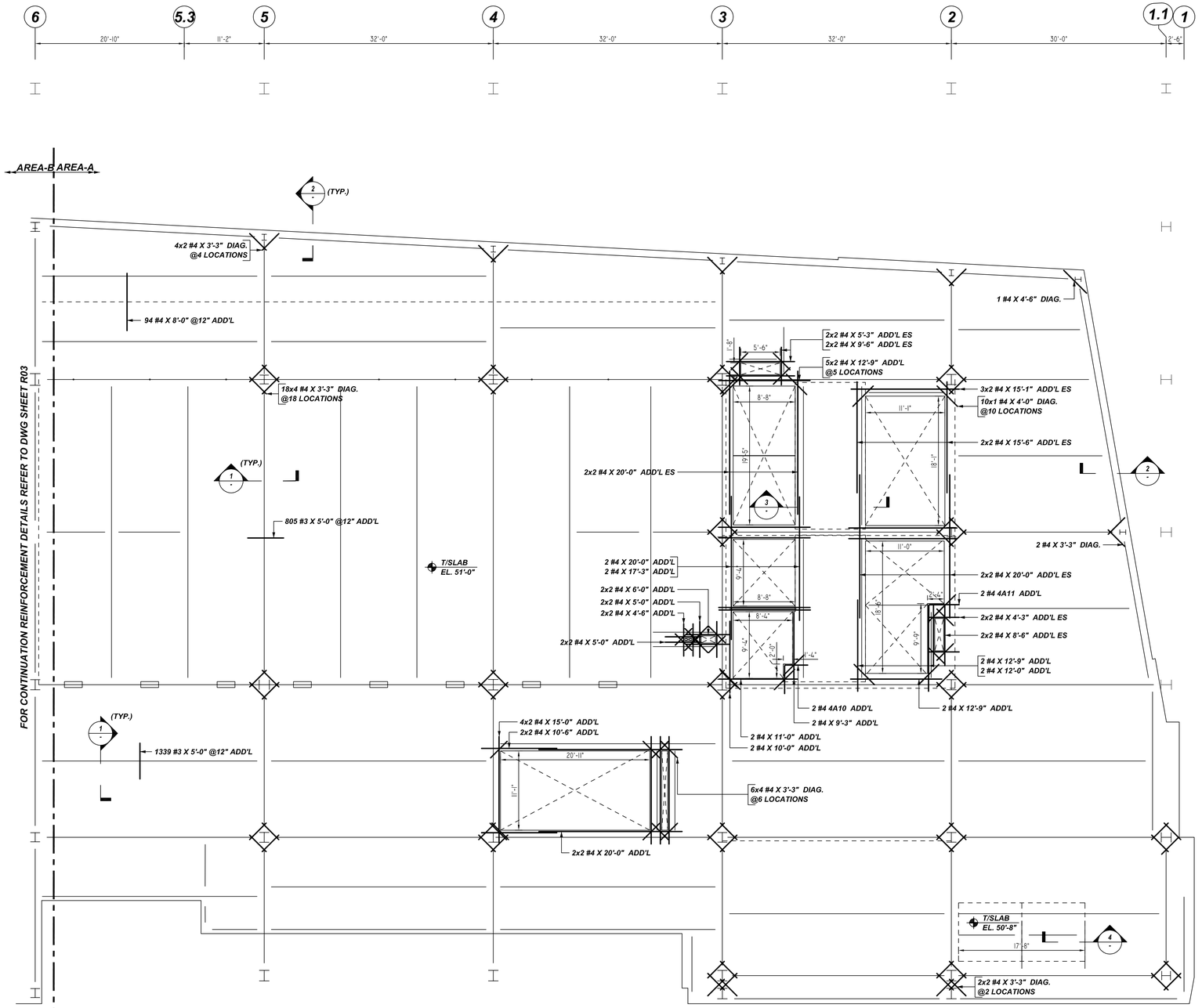

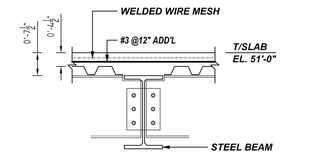

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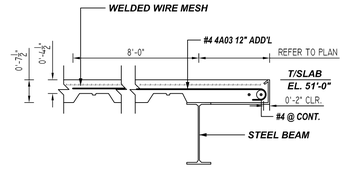

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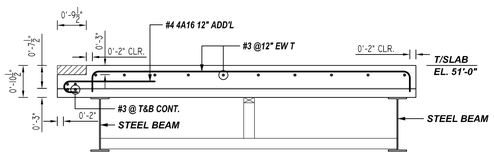
REF: S4.0.1
SCALE: 1/2" = 1'-0"



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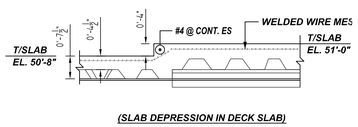
REF: S4.2.8
SCALE: 1/2" = 1'-0"



(SLAB DEPRESSION IN DECK SLAB)

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REV NO	DATE	SENT FOR	REV NO	DATE	SENT FOR
0	04.13.22	APPROVAL			

VIRGINIA TECH

LEVEL-2 AREA-A SLAB ON DECK REINFORCEMENT DETAILS

ALEXANDRIA, VIRGINIA

CUSTOMER: -

DESIGNER: A&F ENGINEERS

DRAWN BY	DATE	JOB NO	SHEET NO.
RAJ/MET	04.13.22	-	R02